

Cover Page

Order ID : Q1728

Project ID : US EPA Riverside Industrial Park Superfund Site

Client : Woodard & Curran

Lab Sample Number

Q1728-01
Q1728-02
Q1728-03
Q1728-04
Q1728-05
Q1728-06
Q1728-07
Q1728-08
Q1728-09
Q1728-10
Q1728-11
Q1728-12

Client Sample Number

SSSG-B14-2-04012025
SSSG-B1-5-04012025
SSSG-B2-2-04022025
SSSG-B2-7-04022025
SSSG-B2-6-04022025
SSSG-B2-5-04022025
SSSG-B1-1-04012025
SSSG-B2-4-04022025
SSSG-B2-1-04022025
SSSG-B14-4-04012025
SSSG-B1-4-04012025
SSSG-B1-3-04012025

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: 6/24/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



SHIPPING DOCUMENTS

Client Contact Information				Bottle Order ID : B2503008				Courier :				_____ of _____ COCs				
Client ID : WOOD06 Project ID : NYCHHC Environmental Services				Sampler Name(s) : <i>Clifton Hefner</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												
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
5556- B14-2-4/1/2025	4/1/25	1556	1607	-30	-9.5	65	65	-30	-9.6	10571 ~~10507~~	10130 ~~10652~~	1.4 L 200	VL042053-D	X		X
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) <i>SD</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		30.03														
Special Instructions/QC Requirements & Comments :																
Suspected Contamination: High Medium Low PID Readings: <i>0.1 ppm</i>																
Sampling site (State):																
Quick Connector required : <i>YS</i>																
Canisters Shipped by: <i>Sam</i>				Date/Time: <i>03/28/25</i>				Canisters Received by: <i>AS</i>				Date/Time: <i>4/3/25</i> <i>NOF</i>				
Samples Relinquished by: <i>CM</i>				Date/Time: <i>4/3/25</i> <i>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) :				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				TO-15 Indoor/Ambient Air Soil Gas			
				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
SSSG-B1-S-4/1/2025	4/1/25	1210	1219	-27	-4.5	51	51	-30	-7.1	10254 10559	10149 10471	1.4 L 200	VL042092.D	X		X

Temperature (Fahrenheit)			
	Ambient	Maximum	Minimum
Start	45		
Stop	45		

Pressure (Inches of Hg)			
	Ambient	Maximum	Minimum
Start	29.96		
Stop	29.96		

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

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

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.1 ppm

Sampling site (State): NJ

Quick Connector required : Yes

Canisters Shipped by: Sam	Date/Time: 03/26/25	Canisters Received by: [Signature]	Date/Time: 4/3/25
Samples Relinquished by: CMH	Date/Time: 4/3/25 1005	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

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Client Contact Information				Bottle Order ID : B2503008				Courier :				_____ of _____ COCs					
Client ID : WOOD06				Project ID : NYCHHC Environmental Services				Sampler Name(s) :				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													
				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	
SSSG-B2-2-4/2/2025	4/2/25	1508	1516	-30	-4.5	69	69	-30	-8.4	10237 19500	10458 10452	1.4 L 200	VL042053-D	X					X	

Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) SUT									
		Ambient		Maximum		Minimum													
Start		49																	
Stop		49																	

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																			
Stop																			

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.0 ppm

Sampling site (State): NJ

Quick Connector required : YES

Canisters Shipped by: SCAM	Date/Time: 03/26/25	Canisters Received by: [Signature]	Date/Time: 4/3/25
Samples Relinquished by: CDH	Date/Time: 4/3/25 1605	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

B2503008 - 13

Client Contact Information				Bottle Order ID : B2503008				Courier :				_____ of _____ COCs					
Client ID : WOOD06				Project ID : NYCHHC Environmental Services				Sampler Name(s) : <i>Clyde N. N. N.</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													
				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	
SSSG-82-7-4/2/2025	4/2/25	1453	1508	-32	-4.5	69	69	-30	-7.1	10572 ~~10475~~	10663 ~~10573~~	1.4 L	200	VL042053-D	X		X
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) <i>[Signature]</i>							
		Ambient	Maximum	Minimum													
Start		49															
Stop		49															
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		30.44															
Stop		30.44															
Special Instructions/QC Requirements & Comments :																	
Suspected Contamination: High Medium Low PID Readings: <i>0.1 ppm</i>																	
Sampling site (State): <i>NJ</i>																	
Quick Connector required : <i>Yes</i>																	
Canisters Shipped by: <i>[Signature]</i>				Date/Time: <i>03/26/25</i>				Canisters Received by: <i>[Signature]</i>				Date/Time: <i>4/3/25</i>				B2503008 - 27	
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 : B2503008				Courier :				_____ of _____ COCs							
Client ID : WOOD06 Project ID : NYCHHC Environmental Services				Sampler Name(s) : <i>Cherita Kibine</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															
				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
5556-B2-L-4/2/2025	4/2/25	1522	1533	30	-4	69	69	-30	-8.4	102/110166	1066210669		1.4 L 200	VL042053-D	X				X
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) <i>[Signature]</i>									
	Ambient	Maximum	Minimum																
Start	49																		
Stop	49																		
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	30.44																		
Stop	30.44																		
Special Instructions/QC Requirements & Comments :																			
Suspected Contamination: High Medium Low PID Readings: <i>0.1 ppm</i> Sampling site (State): <i>NJ</i>																			
Quick Connector required : <i>Yes</i>																			
Canisters Shipped by: <i>Samy</i>				Date/Time: <i>03/26/25</i>				Canisters Received by: <i>[Signature]</i>				Date/Time: <i>4/3/25 1003</i>				B2503008 - 26			
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 : B2503008				Courier :				_____ of _____ COCs					
Client ID : WOOD06				Project ID : NYCHHC Environmental Services				Sampler Name(s) : <i>Christa Hahn</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 :									
Country :				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
5556-B2-5-4/2/2025	4/2/25	1555	1606	-31	-4.5	69	69	-30	-8.8	10484 10543	10119 10455		1.4 L 200	VL042053-D	X		X
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) <i>[Signature]</i>							
		Ambient	Maximum	Minimum													
Start		49															
Stop		49															
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		30.44															
Stop		30.44															
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>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 1005</i>				B2503008 - 15	
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>Clyde H. H. H.</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				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
5556-01-1-4/1/2025	4/1/25	1050	1058	-28	-4.75	51	51	-30	-10.0	10571 ~~10590~~	10467 ~~10550~~	1.4 L 200	VL042092.D	X		X
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) <i>Sut</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>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>SA</i>				Date/Time: <i>4/12/25</i>				B2503008 - 21
Samples Relinquished by: <i>ADP</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 : B2503008				Courier :				_____ of _____ COCs								
Client ID : WOOD06 Project ID : NYCHHC Environmental Services				Sampler Name(s) : <i>Chryslers</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>556-02-4-4/2/2025</i>	<i>4/2/25</i>	<i>1614</i>	<i>1622</i>	<i>-30</i>	<i>-45</i>	<i>69</i>	<i>69</i>	<i>-30</i>	<i>-9.2</i>	<i>10247</i> ~~10165~~	<i>10749</i> ~~10454~~		<i>1.4 L</i>	<i>200</i>	<i>VL042053-D</i>	<i>X</i>				<i>X</i>
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) <i>SEA</i>										
	Ambient	Maximum	Minimum																	
Start	<i>49</i>																			
Stop	<i>49</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>30.44</i>																			
Stop	<i>30.44</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>yes</i>																				
Canisters Shipped by: <i>Seam</i>				Date/Time: <i>4/3/25 1005</i>				Canisters Received by: <i>SEA</i>				Date/Time: <i>4/5/25 1005</i>				B2503008 - 14				
Samples Relinquished by: <i>CND</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>Clayton Hahn</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 :				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						
5556-B2-1-4/2/2025	4/2/25	1538	1545	-30	-4.25	69	69	-30	-10.4	10244	10722		1.4 L 200	VL042092-D	X					X
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) <i>[Signature]</i>										
		Ambient	Maximum	Minimum																
Start		49																		
Stop		49																		
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		30.44																		
Stop		30.44																		
Special Instructions/QC Requirements & Comments :																				
Suspected Contamination: High Medium Low PID Readings:																				
Sampling site (State): <i>NJ</i>																				
Quick Connector required : <i>yes</i>																				
Canisters Shipped by: <i>Sevan</i>				Date/Time: <i>03/26/15</i>				Canisters Received by: <i>[Signature]</i>				Date/Time: <i>4/3/25-1025</i>				B2503008 - 12				
Samples Relinquished by: <i>CPH</i>				Date/Time: <i>4/3/25 1025</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>Agenda Hahn</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
SSSG-814-4-4/2/2025	4/2/25	1350	1400	-30	-4.75	69	69	-30	-9.2	10230 ~~10583~~	10116 ~~10431~~	1.4 L 200	VL042092-D	X		X

Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) <i>[Signature]</i>							
	Ambient	Maximum	Minimum														
Start	46																
Stop	46																

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	30.49																
Stop	30.49																

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: *0.1 ppm*
 Sampling site (State): *NY*

Quick Connector required : *Yes*

Canisters Shipped by: <i>Seam</i>	Date/Time: <i>03/26/15</i>	Canisters Received by: <i>[Signature]</i>	Date/Time: <i>4/25/15</i>
Samples Relinquished by: <i>CMR</i>	Date/Time: <i>4/3/15 1005</i>	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

B2503008 - 11

Client Contact Information				Bottle Order ID : B2503008				Courier :				_____ of _____ COCs					
Client ID : WOOD06				Project ID : NYCHHC Environmental Services				Sampler Name(s) : <i>Chris Pistor</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 :									
Country :				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	
5556-B1-4-4/1/2025	4/1/25	1132	1143	-29.5	-4.5	51	51	-30	-10.4	10487 ~~10484~~	10466 ~~10116~~	1.4 L	200	VL042053-D	X		X
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) <i>Sut</i>							
		Ambient	Maximum	Minimum													
Start		45															
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		29.96															
Stop		29.96															
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>Seymour</i>				Date/Time: <i>03/26/25</i>				Canisters Received by: <i>SA</i>				Date/Time: <i>4/3/25-1005</i>				B2503008 - 2	
Samples Relinquished by: <i>CODH</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>Clyde Hufner</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 Individual 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>555A-B1-3-4/1/2025</i>	<i>4/1/25</i>	<i>1132</i>	<i>1143</i>	<i>-30</i>	<i>-5</i>	<i>51</i>	<i>51</i>	<i>-30</i>	<i>-8.0</i>	<i>10512</i> <i>10255</i>	<i>10462</i> <i>10246</i>	<i>1.4 L</i>	<i>200</i>	<i>VL042090.D</i>	<i>X</i>	<i>X</i>													
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><i>45</i></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td><i>45</i></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start	<i>45</i>			Stop	<i>45</i>			GC/MS Analyst Signature (TO-15) <i>[Signature]</i>							
	Ambient	Maximum	Minimum																										
Start	<i>45</i>																												
Stop	<i>45</i>																												
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><i>29.96</i></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td><i>29.96</i></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start	<i>29.96</i>			Stop	<i>29.96</i>			** 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>29.96</i>																												
Stop	<i>29.96</i>																												
Special Instructions/QC Requirements & Comments : Suspected Contamination: High Medium Low PID Readings: <i>0.0 ppm</i> Sampling site (State): <i>WJ</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 1001</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:																	

From: Stephanie Rogacki <SRogacki@woodardcurran.com>
Sent: Tuesday, April 8, 2025 11:44 AM
To: Yazmeen Gomez; Jordan Hedvat
Cc: Jill Tribley; Bryan Maurer; Clayton Hefner
Subject: Re: Login Summary Details For Project US EPA Riverside Industrial Park Superfund Site-Q1728.

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Secured by Check Point

Hi Yazmeen,

Please follow the COC. B14 was sampled on 4/1/2025 not on 4/2/2025, so my email with the corrections should be applied to the SAF.

Best regards,
Steph

Stephanie Rogacki, MS, CSM

Environmental Scientist 3 | she/her



 [914.460.5641](tel:914.460.5641)  [201.774.0238](tel:201.774.0238)  woodardcurran.com

 srogacki@woodardcurran.com

 [800 Westchester Avenue, Suite N507, Rye Brook, NY 10573](#)



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From: Yazmeen Gomez
Sent: Tuesday, April 8, 2025 10:56 AM

To: Stephanie Rogacki; Jordan Hedvat
Cc: Jill Tribley; Bryan Maurer; Clayton Hefner
Subject: RE: Login Summary Details For Project US EPA Riverside Industrial Park Superfund Site-Q1728.

Hi Stephanie,

I meant to send an email regarding these sample IDS. The COC mentions what you have down below, however the TAGS on the Summa Cans all have "B14" instead of "B2".

Confirming you want us to follow the COC not the Summa Can Tags?

Best Regards,



Yazmeen Gomez
Sr. Project Manager
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3147
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com     

From: Stephanie Rogacki <SRogacki@woodardcurran.com>
Sent: Monday, April 7, 2025 5:06 PM
To: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; Jordan Hedvat <Jordan.Hedvat@alliancetg.com>
Cc: Jill Tribley <jtribley@woodardcurran.com>; Bryan Maurer <bmaurer@woodardcurran.com>; Clayton Hefner <CHefner@woodardcurran.com>
Subject: Re: Login Summary Details For Project US EPA Riverside Industrial Park Superfund Site-Q1728.

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[Secured by Check Point](#)

Hi Yazmeen,

- SSSG-B14-7-04022025 (4th down on SAF) is supposed to be SSSG-B2-7-04022025
- SSSG-B14-6-04022025 should be SSSG-B2-6-04022025
- SSSG-B14-5-04022025 should be SSSG-B2-5-04022025

Best regards,
Steph

Stephanie Rogacki, MS, CSM
Environmental Scientist 3| she/her



📞 914.460.5641 📠 201.774.0238 🌐 woodardcurran.com

✉ srogacki@woodardcurran.com

📍 800 Westchester Avenue, Suite N507, Rye Brook, NY
10573



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From: Data-EWR@alliancetg.com <Data-EWR@alliancetg.com>

Sent: Monday, April 7, 2025 4:06 PM

To: Bryan Maurer <bmaurer@woodardcurran.com>; Jill Tribley <jtribley@woodardcurran.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>

Cc: YAZMEEN@CHEMTECH.NET <YAZMEEN@CHEMTECH.NET>

Subject: Login Summary Details For Project US EPA Riverside Industrial Park Superfund Site-Q1728.

You don't often get email from data-ewr@alliancetg.com. [Learn why this is important](#)

To Bryan Maurer;

Please see the attached Login Summary for the following project, or download the file using your login credentials from the link below.

Order ID : Q1728
Project ID : US EPA Riverside Industrial Park Superfund Site
Download File : <https://chemtech.net/secureLogin.aspx>
Order Date : 4/4/2025 10:39:00 AM

CHEMTECH's Project Manager : YAZMEEN GOMEZ , YAZMEEN@CHEMTECH.NET , 908-357-0579 Ext : 3149

CHEMTECH's Sales Executive : Jordan Hedvat , jordan@chemtech.net , 908-728-3144 Ext :

Thank you for the opportunity to provide you with our services. For any questions please feel free to contact your project manager.

Click Here for our short online customer Survey <http://chemtech.net/ClientSurvey.aspx>.

Thank you,

Alliance Technical Group LLC.

Notice: The information transmitted in this e-mail message and in any attachments is intended Solely for the attention of the named addressee(s) and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon, this information by persons or entities other than the intended recipient is strictly prohibited and may be unlawful. If you have received this transmission in error, please notify us immediately by return e-mail, and permanently delete this transmission, including attachments if any, from any computer.

Laboratory Certification

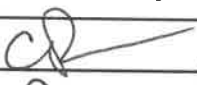
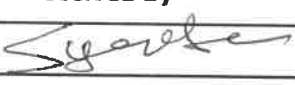
Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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: <u>Chemtech</u>		Location: <u>284 Sheffield Street, Mountainside, NJ 7092</u>	
NAES: Field Sample Seal No.: <u>Q1728</u>		Title: <u>Sample Custodian</u>	
Case No.: <u>US EPA Riverside Industria</u>		Date Broken: <u>4/3/2025</u>	Military Time Seal Broken: <u>10:05:00</u>
		Analytical Parameter/Fraction: <u>TO-15</u>	

Sample No.	Allquot/Extract No.	Sample No.	Allquot/Extract No.
Q1728-01	SSSG-B14-2-04012025	Q1728-11	SSSG-B1-4-04012025
Q1728-02	SSSG-B1-5-04012025	Q1728-12	SSSG-B1-3-04012025
Q1728-03	SSSG-B2-2-04022025		
Q1728-04	~~SSSG-B14-7-04022025~~	SSSG-B2-7-04022025	
Q1728-05	~~SSSG-B14-6-04022025~~	SSSG-B2-6-04022025	
Q1728-06	~~SSSG-B14-5-04022025~~	SSSG-B2-5-04022025	
Q1728-07	SSSG-B1-1-04012025		
Q1728-08	SSSG-B2-4-04022025		
Q1728-09	SSSG-B2-1-04022025		
Q1728-10	SSSG-B14-4-04022025 04012025		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
4-7-25	10:33	Signature 	Signature 	
		Printed Name <u>Cassanova Peña</u>	Printed Name <u>[illegible]</u>	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

Distribution: White - Original (Sent With Report) Yellow - Contractor Archive Pink - Sample Custodian - Interim Copy

YG 04/15/2025

AIR SAMPLE PRESSURE & DILUTION LOGBOOKAnalyst Signature: [Signature]Supervisor Signature: [Signature]

METHOD: TO-15

Pressure Gauge ID: A255971

Date	Sample Number	Canister #	Initial Pressure psia	Initial Pressure Hg	Final Pressure psia	Final Pressure Hg	Dilution Factor	Comment
04/03/15	Q1725-01	10153	11.8	-5.9				sy
	Q1725-02	10321	12.4	-4.7				sy
	Q1725-03	10296	10.4	-8.8				
	Q1725-04	10605	14.0	-1.4				
	Q1725-05	10279	11.8	-5.9				
	Q1725-06	10596	13.4	-2.7				
	Q1725-07	10303	15.2	-7.1				
	Q1725-08	10333	11.2	-7.1				
4/03/15	Q1726-01	10597	13.8	-1.8				
	Q1726-02	10280	11.4	-6.7				
	Q1726-03	10410	11.2	-7.1				
	Q1726-04	10054	13.8	-1.8				
	Q1726-05	10295	12.2	-5.1				
	Q1726-06	10590	11.4	-6.7				
	Q1726-07	10448	12.0	-5.5				✓
04/03/15	Q1728-01	10130	10.0	-9.6				sy
	Q1728-02	10149	11.2	-7.1				
	Q1728-03	10458	10.6	-8.4				
	Q1728-04	10663	11.2	-7.1				
	Q1728-05	10662	10.6	-8.4				
	Q1728-06	10119	10.4	-8.8				

AIR SAMPLE PRESSURE & DILUTION LOGBOOK

Analyst Signature:

Supervisor Signature:

METHOD: TO-15

Pressure Gauge ID:

[illegible]

CHEMTECH

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

Client Sample ID #: SSSG-B1-5-4/1/2025

Client Name: W8C

Project Name: _____

Date: 4/1/2025 Time: 12:19

Analysis: TO-15

Comments: _____

CHEMTECH

Date Received

Storage Location: Air Lab

Sample: Q1728-02

Cust #: SSSG-B1-5-04012025

Disposal: _____

B2503008

CHEMTECH

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

Client Sample ID #: SSSG-B14-2-4/1/2025

Client Name: W+C

Project Name: Riverside

Date: 4/1/2025 Time: 1607

Analysis: TO-15

Comments: Went 4 mins over time

CHEMTECH

Date Received

Storage Location: Air Lab

Sample: Q1728-01

Cust #: SSSG-B14-2-04012025

Disposal: _____

B2503008

CHEMTECH

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

B2503008

Client Sample ID #: SSSG-B2-2-4/2/2025

Client Name: W8C

Project Name: _____

Date: 4/2/2025 Time: 13:16

Analysis: TO-15

Comments: _____

CHEMTECH

Date Received

Storage Location: Air Lab

Sample: Q1728-03

Cust #: SSSG-B2-2-04022025

Disposal: _____

178

85701

CHEMTECH

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

Client Sample ID #: SSSG-B14-6-4/2/2025
Client Name: W+C
Project Name: Riverside
Date: 4/2/2025 Time: 1533
Analysis: TO-15
Comments:

CHEMTECH
Date Received:

Storage Location: Air Lab
Sample: Q1728-05
Cust #: SSSG-~~02~~-6-04022025
B14

of Disposal:

CHEMTECH

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

Client Sample ID #: SSSG-B14-7-4/2/2025
Client Name: W+C
Project Name: Riverside
Date: 4/2/2025 Time: 1508
Analysis: TO-15
Comments:

CHEMTECH'S SA
Date Received:

Storage Location: Air Lab
Sample: Q1728-04
Cust #: SSSG-~~02~~-7-04022025
B14

CHEMTECH

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

Client Sample ID #: SSSG-B14-5-4/2/2025
Client Name: W+C
Project Name: Riverside
Date: 4/2/2025 Time: 1606
Analysis: TO-15
Comments:

Storage Location: Air Lab
Sample: Q1728-06
Cust #: SSSG-~~02~~-5-04022025
B14

CHEMTECH'S
Date Received:

CHEMTECH

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

Client Sample ID #: SSSG-B2-4-4/2/2025

Client Name: WPC

Project Name: _____

Date: 4/2/2025 Time: 1622

Analysis: TO-15

Comments: _____

CHEMTECH

Date Received: _____

Storage Location: Air Lab

Sample: Q1728-08

Cust #: SSSG-B2-4-04022025

Disposal: _____

CHEMTECH

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

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

Client Name: WPC

Project Name: _____

Date: 4/1/2025 Time: 1058

Analysis: TO-15

Comments: _____

CHEMTECH

Date Received: _____

Storage Location: Air Lab

Sample: Q1728-07

Cust #: SSSG-B1-1-04012025

Disposal: _____

CHEMTECH

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

Client Sample ID #: SSSG-B2-1-4/2/2025

Client Name: WPC

Project Name: _____

Date: 4/2/2025 Time: _____

Analysis: TO-15

Comments: _____

CHEMTECH

Date Received: _____

Storage Location: Air Lab

Sample: Q1728-09

Cust #: SSSG-B2-1-04022025

Disposal: _____

CHEMTECH

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

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

Client Name: WRC

Project Name: _____

Date: 4/1/2025 Time: 11:43

Analysis: TO-15

Comments: _____

CHEMTECH'S

Date Received: _____

Storage Location: Air Lab

Sample: Q1728-11

Cust #: SSSG-B1-4-04012025

Disposal: _____

B2503008

CHEMTECH

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

Client Sample ID #: ~~SSSG-B14-4-4/1/2025~~

Client Name: WRC

Project Name: Mountside

Date: 4/2/2025 Time: 1400

Analysis: TO-15

Comments: _____

CHEMTECH'S

Date Received: _____

Storage Location: Air Lab

Sample: Q1728-10

Cust #: SSSG-B14-4-04022025

Disposal: _____

B2503008

CHEMTECH

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

Client Sample ID #: SSSG-B1-3-4/1/2025

Client Name: WRC

Project Name: Mountside

Date: 4/1/2025 Time: 1149

Analysis: TO-15

Comments: _____

CHEMTEC

Date Rec'd: _____

Storage Location: Air Lab

Sample: Q1728-12

Cust #: SSSG-B1-3-04012025

Disposal: _____

B2503008

Q.8-

29701



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 # Q1728

Test Name: TO-15

A. Number of Samples and Date of Receipt:

12 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-B14-2-04012025, SSSG-B1-5-04012025, SSSG-B2-2-04022025, SSSG-B2-7-04022025, SSSG-B2-6-04022025, SSSG-B2-5-04022025, SSSG-B1-1-04012025, SSSG-B2-4-04022025, SSSG-B2-1-04022025, SSSG-B14-4-04012025, SSSG-B1-4-04012025 and SSSG-B1-3-04012025 were initially diluted.

Samples SSSG-B14-2-04012025, SSSG-B2-7-04022025, SSSG-B2-6-04022025, SSSG-B2-5-04022025 and SSSG-B2-4-04022025 were diluted due to high concentrations.

E. Additional Comments:

This data Package has been revised to include DUP raw data

This Data Package has been revised due to client ID corrected for sam#10.

The not QT review data is reported in the Miscellaneous.

The Samples # SSSG-B14-2-04012025, SSSG-B14-2-04012025DL, SSSG-B1-5-04012025, SSSG-B2-7-04022025, SSSG-B2-6-04022025, SSSG-B2-5-04022025DL, SSSG-B1-1-04012025, SSSG-B14-4-04012025, SSSG-B1-4-04012025, SSSG-B1-3-04012025 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

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

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	MMDado da	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	MMDado da	4/3/2025 8:05:13 AM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042173.D	Ethanol	SAM	3/31/2025 11:25:00 AM	MMDado da	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	MMDado da	4/3/2025 8:05:13 AM	Peak Integrated by Software incorrectly
VSTDICCC001	VL042174.D	1,4-Dioxane	SAM	3/31/2025	MMDado da	4/3/2025	Peak Integrated

				11:26:28 AM		8:05:22 AM	ed by Software incorrectly
VSTDIC001	VL042174.D	4-Methyl-2-Pentanone	SAM	3/31/2025 11:26:28 AM	MMDado da	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDIC001	VL042174.D	Ethanol	SAM	3/31/2025 11:26:28 AM	MMDado da	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDIC001	VL042174.D	m/p-Xylene	SAM	3/31/2025 11:26:28 AM	MMDado da	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDIC001	VL042174.D	Methyl Methacrylate	SAM	3/31/2025 11:26:28 AM	MMDado da	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDIC001	VL042174.D	Propene	SAM	3/31/2025 11:26:28 AM	MMDado da	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDIC001	VL042174.D	t-1,3-Dichloropropene	SAM	3/31/2025 11:26:28 AM	MMDado da	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDIC001	VL042174.D	trans-1,2-	SAM	3/31/2025	MMDado da	4/3/2025	Peak

1	.D	Dichloroethene		25 11:26:28 AM	da	5 8:05:22 AM	Integrat ed by Softwar e incorrec tly
VSTDIC00 1	VL042174 .D	Vinyl Acetate	SAM	3/31/20 25 11:26:28 AM	MMDado da	4/3/202 5 8:05:22 AM	Peak Integrat ed by Softwar e incorrec tly
VSTDIC0. 5	VL042175 .D	1,1,2- Trichloroethan e	SAM	3/31/20 25 11:26:33 AM	MMDado da	4/3/202 5 8:05:37 AM	Peak Integrat ed by Softwar e incorrec tly
VSTDIC0. 5	VL042175 .D	1,4-Dioxane	SAM	3/31/20 25 11:26:33 AM	MMDado da	4/3/202 5 8:05:37 AM	Peak Integrat ed by Softwar e incorrec tly
VSTDIC0. 5	VL042175 .D	cis-1,3- Dichloropropen e	SAM	3/31/20 25 11:26:33 AM	MMDado da	4/3/202 5 8:05:37 AM	Peak Integrat ed by Softwar e incorrec tly
VSTDIC0. 5	VL042175 .D	Cyclohexane	SAM	3/31/20 25 11:26:33 AM	MMDado da	4/3/202 5 8:05:37 AM	Peak Integrat ed by Softwar e incorrec tly
VSTDIC0. 5	VL042175 .D	m/p-Xylene	SAM	3/31/20 25 11:26:33 AM	MMDado da	4/3/202 5 8:05:37 AM	Peak Integrat ed by Softwar e incorrec tly

VSTDICC0.5	VL042175.D	Methyl Methacrylate	SAM	3/31/2025 11:26:33 AM	MMDado da	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	MMDado da	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	MMDado da	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	MMDado da	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	MMDado da	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	MMDado da	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	MMDado da	4/3/2025 8:05:45 AM	Peak Integrated by Software incorrectly

VSTDICCO.1	VL042176.D	Carbon Tetrachloride	SAM	3/31/2025 11:25:04 AM	MMDado da	4/3/2025 8:05:45 AM	Peak Integrated by Software incorrectly
VSTDICCO.1	VL042176.D	Trichloroethene	SAM	3/31/2025 11:25:04 AM	MMDado da	4/3/2025 8:05:45 AM	Peak Integrated by Software incorrectly
VSTDICCO.03	VL042177.D	1,1,1-Trichloroethane	SAM	3/31/2025 11:26:39 AM	MMDado da	4/3/2025 8:05:59 AM	Peak Integrated by Software incorrectly
VSTDICCO.03	VL042177.D	1,1,2,2-Tetrachloroethane	SAM	3/31/2025 11:26:39 AM	MMDado da	4/3/2025 8:05:59 AM	Peak Integrated by Software incorrectly
VSTDICCO.03	VL042177.D	Carbon Tetrachloride	SAM	3/31/2025 11:26:39 AM	MMDado da	4/3/2025 8:05:59 AM	Peak Integrated by Software incorrectly
VSTDICCO.03	VL042177.D	Tetrachloroethene	SAM	3/31/2025 11:26:39 AM	MMDado da	4/3/2025 8:05:59 AM	Peak Integrated by Software incorrectly
VSTDICCO.03	VL042177.D	Trichloroethene	SAM	3/31/2025 11:26:39 AM	MMDado da	4/3/2025 8:05:59 AM	Peak Integrated by Software incorrectly

VSTDIC003	VL042177.D	Vinyl Chloride	SAM	3/31/2025 11:26:39 AM	MMDado da	4/3/2025 8:05:59 AM	Peak Integrated by Software incorrectly
VSTDIC015	VL042178.D	m/p-Xylene	SAM	3/31/2025 11:25:14 AM	MMDado da	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	MMDado da	4/3/2025 8:06:14 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	MMDado da	4/9/2025 11:41:57 AM	Peak Integrated by Software incorrectly
VL0408AB S01	VL042255.D	m/p-Xylene	SAM	4/9/2025 11:25:44 AM	MMDado da	4/9/2025 11:41:59 AM	Peak Integrated by Software incorrectly
Q1728-06DL	VL042261.D	Cyclohexane	MMDado da	4/9/2025 3:24:01 PM	SAM	4/10/2025 11:29:58 AM	Peak Integrated by Software

							incorrectly
Q1728-06DL	VL04226 1.D	Heptane	MMDadoda	4/9/20 25 3:24:01 PM	SAM	4/10/20 25 11:29:58 AM	Peak Integrated by Software incorrectly
Q1728-06DL	VL04226 1.D	Hexane	MMDadoda	4/9/20 25 3:24:01 PM	SAM	4/10/20 25 11:29:58 AM	Peak Integrated by Software incorrectly
Q1728-06DL	VL04226 1.D	m/p-Xylene	MMDadoda	4/9/20 25 3:24:01 PM	SAM	4/10/20 25 11:29:58 AM	Peak Integrated by Software incorrectly
Q1728-08	VL04226 3.D	2,2,4-Trimethylpentane	MMDadoda	4/9/20 25 3:24:46 PM	SAM	4/10/20 25 11:30:05 AM	Peak Integrated by Software incorrectly
Q1728-08	VL04226 3.D	Heptane	MMDadoda	4/9/20 25 3:24:46 PM	SAM	4/10/20 25 11:30:05 AM	Peak Integrated by Software incorrectly
Q1728-08	VL04226 3.D	Trichloroethene	MMDadoda	4/9/20 25 3:24:46 PM	SAM	4/10/20 25 11:30:05 AM	Peak Integrated by Software incorrectly
Q1728-09	VL04226 6.D	Ethanol	MMDadoda	4/9/20 25 3:25:09 PM	SAM	4/10/20 25 11:30:17 AM	Peak Integrated by Software

							e in cor rec tly
Q1728-09	VL04226 6.D	m/p-Xylene	MMDad oda	4/9/20 25 3:25:0 9 PM	SAM	4/10/20 25 11:30:1 7 AM	Peak Integrat ed by Softwar e in cor rec tly
Q1728-09	VL04226 6.D	Toluene	MMDad oda	4/9/20 25 3:25:0 9 PM	SAM	4/10/20 25 11:30:1 7 AM	Peak Integrat ed by Softwar e in cor rec tly
Q1728-01DL	VL04226 7.D	Ethanol	MMDad oda	4/9/20 25 3:25:1 3 PM	SAM	4/10/20 25 11:30:1 9 AM	Peak Integrat ed by Softwar e in cor rec tly
Q1728-01DL	VL04226 7.D	Propene	MMDad oda	4/9/20 25 3:25:1 3 PM	SAM	4/10/20 25 11:30:1 9 AM	Peak Integrat ed by Softwar e in cor rec tly
Q1728-01DL	VL04226 7.D	Toluene	MMDad oda	4/9/20 25 3:25:1 3 PM	SAM	4/10/20 25 11:30:1 9 AM	Peak Integrat ed by Softwar e in cor rec tly
Q1728-07	VL04227 2.D	2-Butanone	MMDad oda	4/9/20 25 3:27:1 9 PM	SAM	4/10/20 25 11:30:2 8 AM	Peak Integrat ed by Softwar e in cor rec tly
Q1728-07	VL04227 2.D	Chlorodifluoromet hane	MMDad oda	4/9/20 25 3:27:1	SAM	4/10/20 25 11:30:2	Peak Integrat ed by

				9 PM		8 AM	Software incorrectly
Q1728-07	VL04227 2.D	Ethanol	MMDadoda	4/9/2025 3:27:19 PM	SAM	4/10/2025 11:30:28 AM	Peak Integrated by Software incorrectly
Q1728-07	VL04227 2.D	o-Xylene	MMDadoda	4/9/2025 3:27:19 PM	SAM	4/10/2025 11:30:28 AM	Peak Integrated by Software incorrectly
Q1728-08DL	VL04227 3.D	Ethyl Benzene	MMDadoda	4/9/2025 3:26:27 PM	SAM	4/10/2025 11:30:30 AM	Peak Integrated by Software incorrectly
Q1728-08DL	VL04227 3.D	m/p-Xylene	MMDadoda	4/9/2025 3:26:27 PM	SAM	4/10/2025 11:30:30 AM	Peak Integrated by Software incorrectly
Q1728-11	VL04227 4.D	4-Methyl-2-Pentanone	MMDadoda	4/9/2025 3:26:32 PM	SAM	4/10/2025 11:30:33 AM	Peak Integrated by Software incorrectly
Q1728-11	VL04227 4.D	Carbon Tetrachloride	MMDadoda	4/9/2025 3:26:32 PM	SAM	4/10/2025 11:30:33 AM	Peak Integrated by Software incorrectly
Q1728-11	VL04227 4.D	Chlorodifluoromethane	MMDadoda	4/9/2025	SAM	4/10/2025	Peak Integrated

				3:26:32 PM		11:30:33 AM	ed by Software incorrectly
Q1728-11	VL04227 4.D	Styrene	MMDadoda	4/9/2025 3:26:32 PM	SAM	4/10/2025 11:30:33 AM	Peak Integrated by Software incorrectly
Q1728-11	VL04227 4.D	Tetrachloroethene	MMDadoda	4/9/2025 3:26:32 PM	SAM	4/10/2025 11:30:33 AM	Peak Integrated by Software incorrectly
Q1728-11	VL04227 4.D	Trichloroethene	MMDadoda	4/9/2025 3:26:32 PM	SAM	4/10/2025 11:30:33 AM	Peak Integrated by Software incorrectly
Q1728-11	VL04227 4.D	Trichlorofluoromethane	MMDadoda	4/9/2025 3:26:32 PM	SAM	4/10/2025 11:30:33 AM	Peak Integrated by Software incorrectly
Q1728-12	VL04227 5.D	Benzene	MMDadoda	4/9/2025 3:26:36 PM	SAM	4/10/2025 11:30:34 AM	Peak Integrated by Software incorrectly
Q1728-12	VL04227 5.D	Carbon Tetrachloride	MMDadoda	4/9/2025 3:26:36 PM	SAM	4/10/2025 11:30:34 AM	Peak Integrated by Software incorrectly
Q1728-12	VL04227	Chlorodifluoromet	MMDad	4/9/20	SAM	4/10/20	Peak

	5.D	hane	oda	25 3:26:3 6 PM		25 11:30:3 4 AM	Integrat ed by Softwar e incorrec tly
Q1728-12	VL04227 5.D	m/p-Xylene	MMDad oda	4/9/20 25 3:26:3 6 PM	SAM	4/10/20 25 11:30:3 4 AM	Peak Integrat ed by Softwar e incorrec tly
Q1728-12	VL04227 5.D	Tetrachloroethen e	MMDad oda	4/9/20 25 3:26:3 6 PM	SAM	4/10/20 25 11:30:3 4 AM	Peak Integrat ed by Softwar e incorrec tly
Q1728-12	VL04227 5.D	Toluene	MMDad oda	4/9/20 25 3:26:3 6 PM	SAM	4/10/20 25 11:30:3 4 AM	Peak Integrat ed by Softwar e incorrec tly
Q1728-12	VL04227 5.D	Trichloroethene	MMDad oda	4/9/20 25 3:26:3 6 PM	SAM	4/10/20 25 11:30:3 4 AM	Peak Integrat ed by Softwar e incorrec tly
Q1728- 09DUP	VL04227 6.D	Ethanol	MMDad oda	4/9/20 25 3:48:2 3 PM	SAM	4/10/20 25 11:30:3 7 AM	Peak Integrat ed by Softwar e incorrec tly
Q1728- 09DUP	VL04227 6.D	n-propylbenzene	MMDad oda	4/9/20 25 3:48:2 3 PM	SAM	4/10/20 25 11:30:3 7 AM	Peak Integrat ed by Softwar e incorrec tly

Q1728-09DUP	VL04227 6.D	Tetrachloroethene	MMDadoda	4/9/20 25 3:48:23 PM	SAM	4/10/20 25 11:30:37 AM	Peak Integrated by Software incorrectly
Q1728-01	VL04227 7.D	Carbon Tetrachloride	MMDadoda	4/9/20 25 3:26:45 PM	SAM	4/10/20 25 11:30:39 AM	Peak Integrated by Software incorrectly
Q1728-01	VL04227 7.D	Chlorodifluoromethane	MMDadoda	4/9/20 25 3:26:45 PM	SAM	4/10/20 25 11:30:39 AM	Peak Integrated by Software incorrectly
Q1728-01	VL04227 7.D	Heptane	MMDadoda	4/9/20 25 3:26:45 PM	SAM	4/10/20 25 11:30:39 AM	Peak Integrated by Software incorrectly
Q1728-01	VL04227 7.D	Propene	MMDadoda	4/9/20 25 3:26:45 PM	SAM	4/10/20 25 11:30:39 AM	Peak Integrated by Software incorrectly
Q1728-01	VL04227 7.D	Tetrachloroethene	MMDadoda	4/9/20 25 3:26:45 PM	SAM	4/10/20 25 11:30:39 AM	Peak Integrated by Software incorrectly
Q1728-02	VL04227 8.D	Carbon Tetrachloride	MMDadoda	4/9/20 25 3:26:50 PM	SAM	4/10/20 25 11:30:41 AM	Peak Integrated by Software incorrectly

Q1728-02	VL04227 8.D	Chlorodifluoromet hane	MMDad oda	4/9/20 25 3:26:5 0 PM	SAM	4/10/20 25 11:30:4 1 AM	Peak Integrat ed by Softwar e incorrec tly
Q1728-02	VL04227 8.D	m/p-Xylene	MMDad oda	4/9/20 25 3:26:5 0 PM	SAM	4/10/20 25 11:30:4 1 AM	Peak Integrat ed by Softwar e incorrec tly
Q1728-02	VL04227 8.D	Trichloroethene	MMDad oda	4/9/20 25 3:26:5 0 PM	SAM	4/10/20 25 11:30:4 1 AM	Peak Integrat ed by Softwar e incorrec tly
Q1728-04	VL04227 9.D	4-Methyl-2- Pentanone	MMDad oda	4/9/20 25 3:26:5 4 PM	SAM	4/10/20 25 11:31:1 6 AM	Peak Integrat ed by Softwar e incorrec tly
Q1728-04	VL04227 9.D	Tetrachloroethen e	MMDad oda	4/9/20 25 3:26:5 4 PM	SAM	4/10/20 25 11:31:1 6 AM	Peak Integrat ed by Softwar e incorrec tly
Q1728- 04DL	VL04228 0.D	Benzene	MMDad oda	4/9/20 25 3:26:5 8 PM	SAM	4/10/20 25 11:31:1 7 AM	Peak Integrat ed by Softwar e incorrec tly
Q1728- 04DL	VL04228 0.D	Toluene	MMDad oda	4/9/20 25 3:26:5 8 PM	SAM	4/10/20 25 11:31:1 7 AM	Peak Integrat ed by Softwar e incorrec tly

Q1728-05	VL04228 1.D	4-Methyl-2-Pentanone	MMDad oda	4/9/20 25 3:27:0 2 PM	SAM	4/10/20 25 11:31:4 1 AM	Peak Integrat ed by Softwar e incorrec tly
Q1728-05	VL04228 1.D	Trichloroethene	MMDad oda	4/9/20 25 3:27:0 2 PM	SAM	4/10/20 25 11:31:4 1 AM	Peak Integrat ed by Softwar e incorrec tly
Q1728-10	VL04228 3.D	Carbon Tetrachloride	MMDad oda	4/9/20 25 3:27:0 6 PM	SAM	4/10/20 25 11:31:4 7 AM	Peak Integrat ed by Softwar e incorrec tly
Q1728-10	VL04228 3.D	Chlorodifluoromet hane	MMDad oda	4/9/20 25 3:27:0 6 PM	SAM	4/10/20 25 11:31:4 7 AM	Peak Integrat ed by Softwar e incorrec tly
Q1728-10	VL04228 3.D	Propene	MMDad oda	4/9/20 25 3:27:0 6 PM	SAM	4/10/20 25 11:31:4 7 AM	Peak Integrat ed by Softwar e incorrec tly
Q1728-10	VL04228 3.D	Styrene	MMDad oda	4/9/20 25 3:27:0 6 PM	SAM	4/10/20 25 11:31:4 7 AM	Peak Integrat ed by Softwar e incorrec tly
Q1728-10	VL04228 3.D	Trichloroethene	MMDad oda	4/9/20 25 3:27:0 6 PM	SAM	4/10/20 25 11:31:4 7 AM	Peak Integrat ed by Softwar e incorrec tly

Q1728-10	VL04228 3.D	Trichlorofluorome thane	MMDad oda	4/9/20 25 3:27:0 6 PM	SAM	4/10/20 25 11:31:4 7 AM	Peak Integrat ed by Softwar e incorrec tly
Q1728-03	VL04228 4.D	Cyclohexane	MMDad oda	4/9/20 25 3:27:1 0 PM	SAM	4/10/20 25 11:31:4 9 AM	Peak Integrat ed by Softwar e incorrec tly
Q1728-03	VL04228 4.D	Ethanol	MMDad oda	4/9/20 25 3:27:1 0 PM	SAM	4/10/20 25 11:31:4 9 AM	Peak Integrat ed by Softwar e incorrec tly
Q1728-03	VL04228 4.D	Heptane	MMDad oda	4/9/20 25 3:27:1 0 PM	SAM	4/10/20 25 11:31:4 9 AM	Peak Integrat ed by Softwar e incorrec tly
Q1728-03	VL04228 4.D	m/p-Xylene	MMDad oda	4/9/20 25 3:27:1 0 PM	SAM	4/10/20 25 11:31:4 9 AM	Peak Integrat ed by Softwar e incorrec tly

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



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

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 #: Q1728

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 Castody

✓

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: 06/24/2025

LAB CHRONICLE

OrderID:	Q1728	OrderDate:	4/4/2025 10:39:00 AM
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
Q1728-01	SSSG-B14-2-0401202 5	Air			04/01/25			04/03/25
			TO-15	TO-15			04/08/25	
Q1728-01DL	SSSG-B14-2-0401202 5DL	Air			04/01/25			04/03/25
			TO-15	TO-15			04/08/25	
Q1728-02	SSSG-B1-5-04012025	Air			04/01/25			04/03/25
			TO-15	TO-15			04/09/25	
Q1728-03	SSSG-B2-2-04022025	Air			04/02/25			04/03/25
			TO-15	TO-15			04/09/25	
Q1728-04	SSSG-B2-7-04022025	Air			04/02/25			04/03/25
			TO-15	TO-15			04/09/25	
Q1728-04DL	SSSG-B2-7-04022025 DL	Air			04/02/25			04/03/25
			TO-15	TO-15			04/09/25	
Q1728-05	SSSG-B2-6-04022025	Air			04/02/25			04/03/25
			TO-15	TO-15			04/09/25	
Q1728-05DL	SSSG-B2-6-04022025 DL	Air			04/02/25			04/03/25
			TO-15	TO-15			04/09/25	
Q1728-06	SSSG-B2-5-04022025	Air			04/02/25			04/03/25
			TO-15	TO-15			04/08/25	
Q1728-06DL	SSSG-B2-5-04022025 DL	Air			04/02/25			04/03/25
			TO-15	TO-15			04/08/25	

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Q1728-07	SSSG-B1-1-04012025	Air			04/01/25		04/03/25
			TO-15	TO-15		04/08/25	
Q1728-08	SSSG-B2-4-04022025	Air			04/02/25		04/03/25
			TO-15	TO-15		04/08/25	
Q1728-08DL	SSSG-B2-4-04022025	Air			04/02/25		04/03/25
	DL		TO-15	TO-15		04/08/25	
Q1728-09	SSSG-B2-1-04022025	Air			04/02/25		04/03/25
			TO-15	TO-15		04/08/25	
Q1728-10	SSSG-B14-4-0401202	Air			04/01/25		04/03/25
	5		TO-15	TO-15		04/09/25	
Q1728-11	SSSG-B1-4-04012025	Air			04/01/25		04/03/25
			TO-15	TO-15		04/08/25	
Q1728-12	SSSG-B1-3-04012025	Air			04/01/25		04/03/25
			TO-15	TO-15		04/08/25	

Hit Summary Sheet SW-846

SDG No.: Q1728
Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	SSSG-B14-2-04012025							
Q1728-01	SSSG-B14-2-04012	Air	Dichlorodifluoromethane	2.42	J	2.08	4.94	ug/m3
Q1728-01	SSSG-B14-2-04012	Air	Chloromethane	1.16	J	0.41	2.07	ug/m3
Q1728-01	SSSG-B14-2-04012	Air	Heptane	0.94	J	0.90	4.10	ug/m3
Q1728-01	SSSG-B14-2-04012	Air	Acetone	127	E	1.14	2.38	ug/m3
Q1728-01	SSSG-B14-2-04012	Air	Methylene Chloride	13.9		1.32	3.47	ug/m3
Q1728-01	SSSG-B14-2-04012	Air	2-Butanone	2.33	J	0.71	2.95	ug/m3
Q1728-01	SSSG-B14-2-04012	Air	Carbon Tetrachloride	0.50		0.13	0.38	ug/m3
Q1728-01	SSSG-B14-2-04012	Air	Chloroform	1.12	J	0.83	4.88	ug/m3
Q1728-01	SSSG-B14-2-04012	Air	Benzene	1.02	J	0.54	3.19	ug/m3
Q1728-01	SSSG-B14-2-04012	Air	Toluene	5.28		0.83	3.77	ug/m3
Q1728-01	SSSG-B14-2-04012	Air	Tetrachloroethene	0.54		0.20	0.41	ug/m3
Q1728-01	SSSG-B14-2-04012	Air	Ethyl Benzene	4.13	J	1.04	4.34	ug/m3
Q1728-01	SSSG-B14-2-04012	Air	m/p-Xylene	16.1		1.82	8.69	ug/m3
Q1728-01	SSSG-B14-2-04012	Air	o-Xylene	3.74	J	1.04	4.34	ug/m3
Q1728-01	SSSG-B14-2-04012	Air	Styrene	2.17	J	0.94	4.26	ug/m3
Q1728-01	SSSG-B14-2-04012	Air	1,2,4-Trimethylbenzene	1.62	J	0.79	4.92	ug/m3
Q1728-01	SSSG-B14-2-04012	Air	Hexane	4.23		0.78	3.52	ug/m3
Total Voc :				188				
Q1728-01	SSSG-B14-2-04012	Air	unknown12.257	* 2.40	J	0	0	ppbv
Q1728-01	SSSG-B14-2-04012	Air	Hexane, 3,3-dimethyl-	* 2.70	J	0	0	ppbv
Q1728-01	SSSG-B14-2-04012	Air	Butanoic acid, 2-methyl-, ethyl	* 2.40	J	0	0	ppbv
Q1728-01	SSSG-B14-2-04012	Air	Dodecane, 3-methyl-	* 2.30	J	0	0	ppbv
Q1728-01	SSSG-B14-2-04012	Air	Chlorodifluoromethane	* 0.29	J	0.18	1.00	ppbv
Q1728-01	SSSG-B14-2-04012	Air	Propene	* 0.54	J	0.30	1.00	ppbv
Total Tics :				10.6				
Total Concentration:				198				
Client ID:	SSSG-B14-2-04012025DL							
Q1728-01DL	SSSG-B14-2-04012	Air	Acetone	150	D	5.70	11.9	ug/m3
Q1728-01DL	SSSG-B14-2-04012	Air	Methylene Chloride	14.9	JD	6.60	17.4	ug/m3
Q1728-01DL	SSSG-B14-2-04012	Air	Toluene	6.03	JD	4.15	18.8	ug/m3
Q1728-01DL	SSSG-B14-2-04012	Air	m/p-Xylene	13.0	JD	9.12	43.4	ug/m3
Q1728-01DL	SSSG-B14-2-04012	Air	Hexane	3.88	JD	3.88	17.6	ug/m3
Total Voc :				188				
Total Concentration:				188				
Client ID:	SSSG-B1-5-04012025							
Q1728-02	SSSG-B1-5-040120	Air	Dichlorodifluoromethane	2.23	J	2.08	4.94	ug/m3

Hit Summary Sheet
SW-846

SDG No.: Q1728

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1728-02	SSSG-B1-5-040120	Air	Chloromethane	0.58	J	0.41	2.07	ug/m3
Q1728-02	SSSG-B1-5-040120	Air	Acetone	22.3		1.14	2.38	ug/m3
Q1728-02	SSSG-B1-5-040120	Air	Methylene Chloride	5.21		1.32	3.47	ug/m3
Q1728-02	SSSG-B1-5-040120	Air	2-Butanone	1.03	J	0.71	2.95	ug/m3
Q1728-02	SSSG-B1-5-040120	Air	Carbon Tetrachloride	0.57		0.13	0.38	ug/m3
Q1728-02	SSSG-B1-5-040120	Air	Benzene	0.67	J	0.54	3.19	ug/m3
Q1728-02	SSSG-B1-5-040120	Air	Trichloroethene	0.38		0.16	0.32	ug/m3
Q1728-02	SSSG-B1-5-040120	Air	Toluene	3.69	J	0.83	3.77	ug/m3
Q1728-02	SSSG-B1-5-040120	Air	m/p-Xylene	3.17	J	1.82	8.69	ug/m3
Q1728-02	SSSG-B1-5-040120	Air	o-Xylene	1.17	J	1.04	4.34	ug/m3
Q1728-02	SSSG-B1-5-040120	Air	Styrene	1.28	J	0.94	4.26	ug/m3
Q1728-02	SSSG-B1-5-040120	Air	Hexane	1.62	J	0.78	3.52	ug/m3
Total Voc :				43.9				
Q1728-02	SSSG-B1-5-040120	Air	unknown12.254	* 2.70	J	0	0	ppbv
Q1728-02	SSSG-B1-5-040120	Air	Undecane, 4,8-dimethyl-	* 2.20	J	0	0	ppbv
Q1728-02	SSSG-B1-5-040120	Air	Chlorodifluoromethane	* 0.26	J	0.18	1.00	ppbv
Total Tics :				5.16				
Total Concentration:				49.1				
Client ID:	SSSG-B2-2-04022025							
Q1728-03	SSSG-B2-2-040220	Air	Heptane	54.1	J	18.0	82.0	ug/m3
Q1728-03	SSSG-B2-2-040220	Air	Acetone	237		22.8	47.5	ug/m3
Q1728-03	SSSG-B2-2-040220	Air	Carbon Disulfide	78.5		19.9	62.3	ug/m3
Q1728-03	SSSG-B2-2-040220	Air	Methylene Chloride	51.4	J	26.4	69.5	ug/m3
Q1728-03	SSSG-B2-2-040220	Air	Cyclohexane	96.4		30.3	68.8	ug/m3
Q1728-03	SSSG-B2-2-040220	Air	2-Butanone	20.1	J	14.2	59.0	ug/m3
Q1728-03	SSSG-B2-2-040220	Air	Toluene	85.9		16.6	75.4	ug/m3
Q1728-03	SSSG-B2-2-040220	Air	Ethyl Benzene	203		20.9	86.9	ug/m3
Q1728-03	SSSG-B2-2-040220	Air	m/p-Xylene	2220		36.5	174	ug/m3
Q1728-03	SSSG-B2-2-040220	Air	o-Xylene	1740		20.9	86.9	ug/m3
Q1728-03	SSSG-B2-2-040220	Air	1,3,5-Trimethylbenzene	885		21.6	98.3	ug/m3
Q1728-03	SSSG-B2-2-040220	Air	1,2,4-Trimethylbenzene	1030		15.2	98.3	ug/m3
Q1728-03	SSSG-B2-2-040220	Air	4-Ethyltoluene	364		23.6	98.3	ug/m3
Total Voc :				7060				
Q1728-03	SSSG-B2-2-040220	Air	unknown5.794	* 5600	J	0	0	ppbv
Q1728-03	SSSG-B2-2-040220	Air	unknown7.642	* 540	J	0	0	ppbv
Q1728-03	SSSG-B2-2-040220	Air	Cyclohexane, methyl-	* 3900	J	0	0	ppbv
Q1728-03	SSSG-B2-2-040220	Air	Pentane, 2,3-dimethyl-	* 1300	J	0	0	ppbv

Hit Summary Sheet
SW-846

SDG No.: Q1728

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1728-03	SSSG-B2-2-040220	Air	Hexane, 2,4-dimethyl-	* 4500	J	0	0	ppbv
Q1728-03	SSSG-B2-2-040220	Air	Hexane, 2,5-dimethyl-	* 6000	J	0	0	ppbv
Q1728-03	SSSG-B2-2-040220	Air	Isopropylcyclobutane	* 1100	J	0	0	ppbv
Q1728-03	SSSG-B2-2-040220	Air	Cyclopentane, 1,3-dimethyl-, ci	* 1100	J	0	0	ppbv
Q1728-03	SSSG-B2-2-040220	Air	Cyclohexane, 1,2-dimethyl-, tr	* 490	J	0	0	ppbv
Q1728-03	SSSG-B2-2-040220	Air	Propene	* 11.2	J	6.00	20.0	ppbv
Q1728-03	SSSG-B2-2-040220	Air	Isopropylbenzene	* 48.4	J	3.50	20.0	ppbv
Q1728-03	SSSG-B2-2-040220	Air	tert-Butylbenzene	* 24.4	J	3.70	20.0	ppbv
Q1728-03	SSSG-B2-2-040220	Air	p-Isopropyltoluene	* 5.20	J	3.40	20.0	ppbv
			Total Tics :	24600				
			Total Concentration:	31700				
Client ID:	SSSG-B2-7-04022025							
Q1728-04	SSSG-B2-7-040220	Air	Chloromethane	1.63	J	0.81	4.13	ug/m3
Q1728-04	SSSG-B2-7-040220	Air	tert-Butyl alcohol	9.40		2.30	6.06	ug/m3
Q1728-04	SSSG-B2-7-040220	Air	Heptane	4.92	J	1.80	8.20	ug/m3
Q1728-04	SSSG-B2-7-040220	Air	Acetone	618	E	2.28	4.75	ug/m3
Q1728-04	SSSG-B2-7-040220	Air	Carbon Disulfide	34.3		1.99	6.23	ug/m3
Q1728-04	SSSG-B2-7-040220	Air	Methylene Chloride	13.6		2.64	6.95	ug/m3
Q1728-04	SSSG-B2-7-040220	Air	2-Butanone	46.6		1.42	5.90	ug/m3
Q1728-04	SSSG-B2-7-040220	Air	Chloroform	2.00	J	1.61	9.77	ug/m3
Q1728-04	SSSG-B2-7-040220	Air	2,2,4-Trimethylpentane	14.0		1.87	9.34	ug/m3
Q1728-04	SSSG-B2-7-040220	Air	Benzene	13.1		1.12	6.39	ug/m3
Q1728-04	SSSG-B2-7-040220	Air	4-Methyl-2-Pentanone	9.43		1.52	8.20	ug/m3
Q1728-04	SSSG-B2-7-040220	Air	Toluene	54.3		1.66	7.54	ug/m3
Q1728-04	SSSG-B2-7-040220	Air	Ethyl Benzene	3.26	J	2.08	8.69	ug/m3
Q1728-04	SSSG-B2-7-040220	Air	m/p-Xylene	11.3	J	3.65	17.4	ug/m3
Q1728-04	SSSG-B2-7-040220	Air	o-Xylene	3.61	J	2.08	8.69	ug/m3
Q1728-04	SSSG-B2-7-040220	Air	Styrene	3.32	J	1.87	8.52	ug/m3
Q1728-04	SSSG-B2-7-040220	Air	Hexane	7.40		1.55	7.05	ug/m3
			Total Voc :	850				
Q1728-04	SSSG-B2-7-040220	Air	Pentane, 2-methyl-	* 4.00	J	0	0	ppbv
Q1728-04	SSSG-B2-7-040220	Air	1-Propene, 2-methyl-	* 5.20	J	0	0	ppbv
Q1728-04	SSSG-B2-7-040220	Air	Propene	* 6.90	J	0.60	2.00	ppbv
			Total Tics :	16.1				
			Total Concentration:	866				
Client ID:	SSSG-B2-7-04022025DL							
Q1728-04DL	SSSG-B2-7-040220	Air	Acetone	736	D	22.8	47.5	ug/m3

Hit Summary Sheet
SW-846

SDG No.: Q1728

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1728-04DL	SSSG-B2-7-040220	Air	Carbon Disulfide	29.9	JD	19.9	62.3	ug/m3
Q1728-04DL	SSSG-B2-7-040220	Air	Methylene Chloride	37.9	JD	26.4	69.5	ug/m3
Q1728-04DL	SSSG-B2-7-040220	Air	2-Butanone	42.5	JD	14.2	59.0	ug/m3
Q1728-04DL	SSSG-B2-7-040220	Air	Benzene	12.5	JD	11.2	63.9	ug/m3
Q1728-04DL	SSSG-B2-7-040220	Air	Toluene	34.3	JD	16.6	75.4	ug/m3
Total Voc :				893				
Total Concentration:				893				
Client ID:	SSSG-B2-6-04022025							
Q1728-05	SSSG-B2-6-040220	Air	Chloromethane	1.22	J	0.81	4.13	ug/m3
Q1728-05	SSSG-B2-6-040220	Air	tert-Butyl alcohol	8.19		2.30	6.06	ug/m3
Q1728-05	SSSG-B2-6-040220	Air	Heptane	5.74	J	1.80	8.20	ug/m3
Q1728-05	SSSG-B2-6-040220	Air	Acetone	808	E	2.28	4.75	ug/m3
Q1728-05	SSSG-B2-6-040220	Air	Methylene Chloride	17.7		2.64	6.95	ug/m3
Q1728-05	SSSG-B2-6-040220	Air	2-Butanone	54.0		1.42	5.90	ug/m3
Q1728-05	SSSG-B2-6-040220	Air	2,2,4-Trimethylpentane	20.6		1.87	9.34	ug/m3
Q1728-05	SSSG-B2-6-040220	Air	Benzene	3.83	J	1.12	6.39	ug/m3
Q1728-05	SSSG-B2-6-040220	Air	Trichloroethene	1.61		0.38	0.64	ug/m3
Q1728-05	SSSG-B2-6-040220	Air	4-Methyl-2-Pentanone	3.28	J	1.52	8.20	ug/m3
Q1728-05	SSSG-B2-6-040220	Air	Toluene	86.3		1.66	7.54	ug/m3
Q1728-05	SSSG-B2-6-040220	Air	Chlorobenzene	3.45	J	1.38	9.21	ug/m3
Q1728-05	SSSG-B2-6-040220	Air	Ethyl Benzene	4.78	J	2.08	8.69	ug/m3
Q1728-05	SSSG-B2-6-040220	Air	m/p-Xylene	14.8	J	3.65	17.4	ug/m3
Q1728-05	SSSG-B2-6-040220	Air	o-Xylene	6.52	J	2.08	8.69	ug/m3
Q1728-05	SSSG-B2-6-040220	Air	Styrene	2.55	J	1.87	8.52	ug/m3
Q1728-05	SSSG-B2-6-040220	Air	2-Chlorotoluene	88.0		2.28	10.4	ug/m3
Q1728-05	SSSG-B2-6-040220	Air	1,2,4-Trimethylbenzene	2.06	J	1.52	9.83	ug/m3
Q1728-05	SSSG-B2-6-040220	Air	Hexane	6.34	J	1.55	7.05	ug/m3
Total Voc :				1140				
Q1728-05	SSSG-B2-6-040220	Air	unknown4.056	* 6.10	J	0	0	ppbv
Q1728-05	SSSG-B2-6-040220	Air	Pentane, 2-methyl-	* 4.10	J	0	0	ppbv
Q1728-05	SSSG-B2-6-040220	Air	1-Propene, 2-methyl-	* 15.2	J	0	0	ppbv
Q1728-05	SSSG-B2-6-040220	Air	Cyclohexane, 1,2-dimethyl- (cis)	* 4.40	J	0	0	ppbv
Q1728-05	SSSG-B2-6-040220	Air	Heptane, 2,6-dimethyl-	* 5.90	J	0	0	ppbv
Q1728-05	SSSG-B2-6-040220	Air	Cyclohexane, 1,2-dimethyl-, (cis)	* 5.50	J	0	0	ppbv
Q1728-05	SSSG-B2-6-040220	Air	Cyclohexane, 1,2-dimethyl-, (trans)	* 4.00	J	0	0	ppbv
Q1728-05	SSSG-B2-6-040220	Air	Heptane, 3-ethyl-	* 7.80	J	0	0	ppbv
Q1728-05	SSSG-B2-6-040220	Air	Propene	* 3.70	J	0.60	2.00	ppbv

Hit Summary Sheet SW-846

SDG No.: Q1728

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Total Tics :				56.7				
Total Concentration:				1200				
Client ID:	SSSG-B2-6-04022025DL							
Q1728-05DL	SSSG-B2-6-040220	Air	Acetone	1070	D	22.8	47.5	ug/m3
Q1728-05DL	SSSG-B2-6-040220	Air	Methylene Chloride	36.5	JD	26.4	69.5	ug/m3
Q1728-05DL	SSSG-B2-6-040220	Air	2-Butanone	44.8	JD	14.2	59.0	ug/m3
Q1728-05DL	SSSG-B2-6-040220	Air	Toluene	47.1	JD	16.6	75.4	ug/m3
Q1728-05DL	SSSG-B2-6-040220	Air	2-Chlorotoluene	41.9	JD	22.8	104	ug/m3
Total Voc :				1240				
Total Concentration:				1240				
Client ID:	SSSG-B2-5-04022025							
Q1728-06	SSSG-B2-5-040220	Air	Chloromethane	2.07	J	2.02	10.3	ug/m3
Q1728-06	SSSG-B2-5-040220	Air	tert-Butyl alcohol	7.28	J	5.76	15.2	ug/m3
Q1728-06	SSSG-B2-5-040220	Air	Heptane	27.9		4.51	20.5	ug/m3
Q1728-06	SSSG-B2-5-040220	Air	Acetone	974	E	5.70	11.9	ug/m3
Q1728-06	SSSG-B2-5-040220	Air	Carbon Disulfide	75.0		4.98	15.6	ug/m3
Q1728-06	SSSG-B2-5-040220	Air	Methylene Chloride	31.6		6.60	17.4	ug/m3
Q1728-06	SSSG-B2-5-040220	Air	Cyclohexane	28.9		7.57	17.2	ug/m3
Q1728-06	SSSG-B2-5-040220	Air	2-Butanone	79.0		3.54	14.8	ug/m3
Q1728-06	SSSG-B2-5-040220	Air	2,2,4-Trimethylpentane	61.2		4.67	23.4	ug/m3
Q1728-06	SSSG-B2-5-040220	Air	Benzene	42.5		2.78	16.0	ug/m3
Q1728-06	SSSG-B2-5-040220	Air	Toluene	215		4.15	18.8	ug/m3
Q1728-06	SSSG-B2-5-040220	Air	Chlorobenzene	5.07	J	3.50	23.0	ug/m3
Q1728-06	SSSG-B2-5-040220	Air	Ethyl Benzene	30.8		5.21	21.7	ug/m3
Q1728-06	SSSG-B2-5-040220	Air	m/p-Xylene	92.1		9.12	43.4	ug/m3
Q1728-06	SSSG-B2-5-040220	Air	o-Xylene	38.2		5.21	21.7	ug/m3
Q1728-06	SSSG-B2-5-040220	Air	2-Chlorotoluene	29.5		5.70	25.9	ug/m3
Q1728-06	SSSG-B2-5-040220	Air	1,2,4-Trimethylbenzene	9.83	J	3.83	24.6	ug/m3
Q1728-06	SSSG-B2-5-040220	Air	Hexane	15.9	J	3.88	17.6	ug/m3
Total Voc :				1770				
Q1728-06	SSSG-B2-5-040220	Air	Cyclohexane, methyl-	* 25.6	J	0	0	ppbv
Q1728-06	SSSG-B2-5-040220	Air	Octane	* 11.3	J	0	0	ppbv
Q1728-06	SSSG-B2-5-040220	Air	1-Propene, 2-methyl-	* 22.8	J	0	0	ppbv
Q1728-06	SSSG-B2-5-040220	Air	Hexane, 2-methyl-	* 10.2	J	0	0	ppbv
Q1728-06	SSSG-B2-5-040220	Air	Cyclohexane, 1,4-dimethyl-, cis	* 12.8	J	0	0	ppbv
Q1728-06	SSSG-B2-5-040220	Air	Propene	* 14.8	J	1.50	5.00	ppbv
Total Tics :				97.5				
Total Concentration:				1860				

Hit Summary Sheet SW-846

SDG No.: Q1728

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	SSSG-B2-5-04022025DL							
Q1728-06DL	SSSG-B2-5-040220	Air	Heptane	24.2	JD	18.0	82.0	ug/m3
Q1728-06DL	SSSG-B2-5-040220	Air	Acetone	974	D	22.8	47.5	ug/m3
Q1728-06DL	SSSG-B2-5-040220	Air	Carbon Disulfide	62.6	D	19.9	62.3	ug/m3
Q1728-06DL	SSSG-B2-5-040220	Air	Methylene Chloride	44.8	JD	26.4	69.5	ug/m3
Q1728-06DL	SSSG-B2-5-040220	Air	2-Butanone	74.0	D	14.2	59.0	ug/m3
Q1728-06DL	SSSG-B2-5-040220	Air	2,2,4-Trimethylpentane	50.9	JD	18.7	93.4	ug/m3
Q1728-06DL	SSSG-B2-5-040220	Air	Benzene	40.3	JD	11.2	63.9	ug/m3
Q1728-06DL	SSSG-B2-5-040220	Air	Toluene	185	D	16.6	75.4	ug/m3
Q1728-06DL	SSSG-B2-5-040220	Air	Ethyl Benzene	26.1	JD	20.9	86.9	ug/m3
Q1728-06DL	SSSG-B2-5-040220	Air	m/p-Xylene	68.2	JD	36.5	174	ug/m3
Q1728-06DL	SSSG-B2-5-040220	Air	o-Xylene	29.1	JD	20.9	86.9	ug/m3
Q1728-06DL	SSSG-B2-5-040220	Air	2-Chlorotoluene	22.8	JD	22.8	104	ug/m3
Total Voc :				1600				
Total Concentration:				1600				
Client ID:	SSSG-B1-1-04012025							
Q1728-07	SSSG-B1-1-040120	Air	Acetone	8.79		2.28	4.75	ug/m3
Q1728-07	SSSG-B1-1-040120	Air	Methylene Chloride	4.86	J	2.64	6.95	ug/m3
Q1728-07	SSSG-B1-1-040120	Air	Chloroform	5.37	J	1.61	9.77	ug/m3
Q1728-07	SSSG-B1-1-040120	Air	Toluene	11.7		1.66	7.54	ug/m3
Q1728-07	SSSG-B1-1-040120	Air	m/p-Xylene	4.78	J	3.65	17.4	ug/m3
Q1728-07	SSSG-B1-1-040120	Air	Hexane	2.04	J	1.55	7.05	ug/m3
Total Voc :				37.5				
Q1728-07	SSSG-B1-1-040120	Air	Chlorodifluoromethane	* 0.41	J	0.35	2.00	ppbv
Total Tics :				0.41				
Total Concentration:				37.9				
Client ID:	SSSG-B2-4-04022025							
Q1728-08	SSSG-B2-4-040220	Air	tert-Butyl alcohol	7.88	J	5.76	15.2	ug/m3
Q1728-08	SSSG-B2-4-040220	Air	Heptane	9.02	J	4.51	20.5	ug/m3
Q1728-08	SSSG-B2-4-040220	Air	Acetone	808	E	5.70	11.9	ug/m3
Q1728-08	SSSG-B2-4-040220	Air	Methylene Chloride	41.3		6.60	17.4	ug/m3
Q1728-08	SSSG-B2-4-040220	Air	2-Butanone	13.6	J	3.54	14.8	ug/m3
Q1728-08	SSSG-B2-4-040220	Air	2,2,4-Trimethylpentane	7.94	J	4.67	23.4	ug/m3
Q1728-08	SSSG-B2-4-040220	Air	Trichloroethene	5.37		0.91	1.61	ug/m3
Q1728-08	SSSG-B2-4-040220	Air	Toluene	35.0		4.15	18.8	ug/m3
Q1728-08	SSSG-B2-4-040220	Air	Ethyl Benzene	30.8		5.21	21.7	ug/m3
Q1728-08	SSSG-B2-4-040220	Air	m/p-Xylene	428		9.12	43.4	ug/m3
Q1728-08	SSSG-B2-4-040220	Air	o-Xylene	325		5.21	21.7	ug/m3

Hit Summary Sheet SW-846

SDG No.: Q1728

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1728-08	SSSG-B2-4-040220	Air	1,3,5-Trimethylbenzene	159		5.41	24.6	ug/m3
Q1728-08	SSSG-B2-4-040220	Air	1,2,4-Trimethylbenzene	186		3.83	24.6	ug/m3
Q1728-08	SSSG-B2-4-040220	Air	4-Ethyltoluene	64.4		5.90	24.6	ug/m3
Q1728-08	SSSG-B2-4-040220	Air	Hexane	8.46	J	3.88	17.6	ug/m3
Total Voc :				2130				
Q1728-08	SSSG-B2-4-040220	Air	Cyclotetrasiloxane, octamethyl- *	27.6	J	0	0	ppbv
Q1728-08	SSSG-B2-4-040220	Air	Cyclohexane, 1,2-dimethyl- (ci- *	28.4	J	0	0	ppbv
Q1728-08	SSSG-B2-4-040220	Air	Heptane, 3,5-dimethyl- *	55.0	J	0	0	ppbv
Q1728-08	SSSG-B2-4-040220	Air	Cyclohexane, ethyl- *	36.5	J	0	0	ppbv
Q1728-08	SSSG-B2-4-040220	Air	Decane, 4-methyl- *	28.1	J	0	0	ppbv
Q1728-08	SSSG-B2-4-040220	Air	Cyclohexane, 1,1,3-trimethyl- *	36.5	J	0	0	ppbv
Q1728-08	SSSG-B2-4-040220	Air	Octane, 2-methyl- *	28.6	J	0	0	ppbv
Q1728-08	SSSG-B2-4-040220	Air	1-Ethyl-4-methylcyclohexane *	30.4	J	0	0	ppbv
Q1728-08	SSSG-B2-4-040220	Air	Cyclohexane, 1,2-dimethyl-, tr *	29.7	J	0	0	ppbv
Q1728-08	SSSG-B2-4-040220	Air	Propene *	2.50	J	1.50	5.00	ppbv
Q1728-08	SSSG-B2-4-040220	Air	Isopropylbenzene *	2.80	J	0.87	5.00	ppbv
Q1728-08	SSSG-B2-4-040220	Air	n-propylbenzene *	2.70	J	0.78	5.00	ppbv
Q1728-08	SSSG-B2-4-040220	Air	tert-Butylbenzene *	4.30	J	0.93	5.00	ppbv
Q1728-08	SSSG-B2-4-040220	Air	p-Isopropyltoluene *	1.60	J	0.86	5.00	ppbv
Total Tics :				315				
Total Concentration:				2440				
Client ID:	SSSG-B2-4-04022025DL							
Q1728-08DL	SSSG-B2-4-040220	Air	Acetone	903	D	22.8	47.5	ug/m3
Q1728-08DL	SSSG-B2-4-040220	Air	Methylene Chloride	61.5	JD	26.4	69.5	ug/m3
Q1728-08DL	SSSG-B2-4-040220	Air	2-Butanone	14.4	JD	14.2	59.0	ug/m3
Q1728-08DL	SSSG-B2-4-040220	Air	Toluene	27.5	JD	16.6	75.4	ug/m3
Q1728-08DL	SSSG-B2-4-040220	Air	Ethyl Benzene	23.9	JD	20.9	86.9	ug/m3
Q1728-08DL	SSSG-B2-4-040220	Air	m/p-Xylene	345	D	36.5	174	ug/m3
Q1728-08DL	SSSG-B2-4-040220	Air	o-Xylene	268	D	20.9	86.9	ug/m3
Q1728-08DL	SSSG-B2-4-040220	Air	1,3,5-Trimethylbenzene	144	D	21.6	98.3	ug/m3
Q1728-08DL	SSSG-B2-4-040220	Air	1,2,4-Trimethylbenzene	157	D	15.2	98.3	ug/m3
Q1728-08DL	SSSG-B2-4-040220	Air	4-Ethyltoluene	51.1	JD	23.6	98.3	ug/m3
Total Voc :				1990				
Total Concentration:				1990				
Client ID:	SSSG-B2-1-04022025							
Q1728-09	SSSG-B2-1-040220	Air	Acetone	51.1		5.70	11.9	ug/m3
Q1728-09	SSSG-B2-1-040220	Air	Methylene Chloride	8.69	J	6.60	17.4	ug/m3

Hit Summary Sheet SW-846

SDG No.: Q1728

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1728-09	SSSG-B2-1-040220	Air	2-Butanone	3.83	J	3.54	14.8	ug/m3
Q1728-09	SSSG-B2-1-040220	Air	Chloroform	17.1	J	4.05	24.4	ug/m3
Q1728-09	SSSG-B2-1-040220	Air	Toluene	16.2	J	4.15	18.8	ug/m3
Q1728-09	SSSG-B2-1-040220	Air	Ethyl Benzene	23.9		5.21	21.7	ug/m3
Q1728-09	SSSG-B2-1-040220	Air	m/p-Xylene	387		9.12	43.4	ug/m3
Q1728-09	SSSG-B2-1-040220	Air	o-Xylene	317		5.21	21.7	ug/m3
Q1728-09	SSSG-B2-1-040220	Air	1,3,5-Trimethylbenzene	331		5.41	24.6	ug/m3
Q1728-09	SSSG-B2-1-040220	Air	1,2,4-Trimethylbenzene	485		3.83	24.6	ug/m3
Total Voc :				1640				
Q1728-09	SSSG-B2-1-040220	Air	Benzene, 1-ethyl-2-methyl-	* 50.3	J	0	0	ppbv
Q1728-09	SSSG-B2-1-040220	Air	Heptane, 3,5-dimethyl-	* 94.0	J	0	0	ppbv
Q1728-09	SSSG-B2-1-040220	Air	Cyclohexane, ethyl-	* 55.2	J	0	0	ppbv
Q1728-09	SSSG-B2-1-040220	Air	Decane, 4-methyl-	* 47.0	J	0	0	ppbv
Q1728-09	SSSG-B2-1-040220	Air	Cyclohexane, 1,1,3-trimethyl-	* 47.9	J	0	0	ppbv
Q1728-09	SSSG-B2-1-040220	Air	Cyclohexane, 1-ethyl-2-methyl-	* 48.3	J	0	0	ppbv
Q1728-09	SSSG-B2-1-040220	Air	Cyclohexane, 1,2,4-trimethyl-,	* 40.8	J	0	0	ppbv
Q1728-09	SSSG-B2-1-040220	Air	Tridecane, 4-methyl-	* 45.3	J	0	0	ppbv
Q1728-09	SSSG-B2-1-040220	Air	3,5-Dimethyl-3-heptene	* 39.4	J	0	0	ppbv
Q1728-09	SSSG-B2-1-040220	Air	Isopropylbenzene	* 4.00	J	0.87	5.00	ppbv
Q1728-09	SSSG-B2-1-040220	Air	n-propylbenzene	* 5.10	J	0.78	5.00	ppbv
Q1728-09	SSSG-B2-1-040220	Air	tert-Butylbenzene	* 10.5	J	0.93	5.00	ppbv
Q1728-09	SSSG-B2-1-040220	Air	sec-Butylbenzene	* 2.80	J	0.94	5.00	ppbv
Q1728-09	SSSG-B2-1-040220	Air	p-Isopropyltoluene	* 4.00	J	0.86	5.00	ppbv
Total Tics :				495				
Total Concentration:				2130				
Client ID:	SSSG-B14-4-0401025							
Q1728-10	SSSG-B14-4-04012	Air	Dichlorodifluoromethane	2.52	J	2.08	4.94	ug/m3
Q1728-10	SSSG-B14-4-04012	Air	Chloromethane	1.03	J	0.41	2.07	ug/m3
Q1728-10	SSSG-B14-4-04012	Air	Acetone	60.3		1.14	2.38	ug/m3
Q1728-10	SSSG-B14-4-04012	Air	Methylene Chloride	25.4		1.32	3.47	ug/m3
Q1728-10	SSSG-B14-4-04012	Air	2-Butanone	1.95	J	0.71	2.95	ug/m3
Q1728-10	SSSG-B14-4-04012	Air	Carbon Tetrachloride	0.50		0.13	0.38	ug/m3
Q1728-10	SSSG-B14-4-04012	Air	Toluene	2.03	J	0.83	3.77	ug/m3
Q1728-10	SSSG-B14-4-04012	Air	Ethyl Benzene	1.82	J	1.04	4.34	ug/m3
Q1728-10	SSSG-B14-4-04012	Air	m/p-Xylene	7.38	J	1.82	8.69	ug/m3
Q1728-10	SSSG-B14-4-04012	Air	o-Xylene	1.69	J	1.04	4.34	ug/m3
Q1728-10	SSSG-B14-4-04012	Air	Styrene	1.02	J	0.94	4.26	ug/m3

Hit Summary Sheet
SW-846

SDG No.: Q1728

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1728-10	SSSG-B14-4-04012	Air	1,2,4-Trimethylbenzene	1.03	J	0.79	4.92	ug/m3
Q1728-10	SSSG-B14-4-04012	Air	Hexane	5.64		0.78	3.52	ug/m3
			Total Voc :			112		
Q1728-10	SSSG-B14-4-04012	Air	Propanoic acid, ethyl ester	* 4.50	J	0	0	ppbv
Q1728-10	SSSG-B14-4-04012	Air	Propanoic acid, butyl ester	* 8.30	J	0	0	ppbv
Q1728-10	SSSG-B14-4-04012	Air	Chlorodifluoromethane	* 0.27	J	0.18	1.00	ppbv
Q1728-10	SSSG-B14-4-04012	Air	Propene	* 1.10	J	0.30	1.00	ppbv
			Total Tics :			14.2		
			Total Concentration:			126		
Client ID:	SSSG-B1-4-04012025							
Q1728-11	SSSG-B1-4-040120	Air	Dichlorodifluoromethane	2.13	J	2.08	4.94	ug/m3
Q1728-11	SSSG-B1-4-040120	Air	Acetone	27.8		1.14	2.38	ug/m3
Q1728-11	SSSG-B1-4-040120	Air	Methylene Chloride	2.33	J	1.32	3.47	ug/m3
Q1728-11	SSSG-B1-4-040120	Air	2-Butanone	1.21	J	0.71	2.95	ug/m3
Q1728-11	SSSG-B1-4-040120	Air	Carbon Tetrachloride	0.94		0.13	0.38	ug/m3
Q1728-11	SSSG-B1-4-040120	Air	Chloroform	2.73	J	0.83	4.88	ug/m3
Q1728-11	SSSG-B1-4-040120	Air	Benzene	0.93	J	0.54	3.19	ug/m3
Q1728-11	SSSG-B1-4-040120	Air	Trichloroethene	1.07		0.16	0.32	ug/m3
Q1728-11	SSSG-B1-4-040120	Air	4-Methyl-2-Pentanone	0.86	J	0.78	4.10	ug/m3
Q1728-11	SSSG-B1-4-040120	Air	Toluene	5.65		0.83	3.77	ug/m3
Q1728-11	SSSG-B1-4-040120	Air	Tetrachloroethene	1.97		0.20	0.41	ug/m3
Q1728-11	SSSG-B1-4-040120	Air	Ethyl Benzene	1.35	J	1.04	4.34	ug/m3
Q1728-11	SSSG-B1-4-040120	Air	m/p-Xylene	5.65	J	1.82	8.69	ug/m3
Q1728-11	SSSG-B1-4-040120	Air	o-Xylene	2.26	J	1.04	4.34	ug/m3
Q1728-11	SSSG-B1-4-040120	Air	Styrene	2.38	J	0.94	4.26	ug/m3
Q1728-11	SSSG-B1-4-040120	Air	1,2,4-Trimethylbenzene	1.52	J	0.79	4.92	ug/m3
Q1728-11	SSSG-B1-4-040120	Air	Hexane	1.48	J	0.78	3.52	ug/m3
			Total Voc :			62.3		
Q1728-11	SSSG-B1-4-040120	Air	unknown12.257	* 3.30	J	0	0	ppbv
Q1728-11	SSSG-B1-4-040120	Air	Undecane	* 3.20	J	0	0	ppbv
Q1728-11	SSSG-B1-4-040120	Air	Ether, heptyl hexyl	* 2.70	J	0	0	ppbv
Q1728-11	SSSG-B1-4-040120	Air	Chlorodifluoromethane	* 0.30	J	0.18	1.00	ppbv
Q1728-11	SSSG-B1-4-040120	Air	Propene	* 0.33	J	0.30	1.00	ppbv
			Total Tics :			9.83		
			Total Concentration:			72.1		
Client ID:	SSSG-B1-3-04012025							
Q1728-12	SSSG-B1-3-040120	Air	Dichlorodifluoromethane	2.27	J	2.08	4.94	ug/m3

Hit Summary Sheet SW-846

SDG No.: Q1728

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1728-12	SSSG-B1-3-040120	Air	Chloromethane	0.47	J	0.41	2.07	ug/m3
Q1728-12	SSSG-B1-3-040120	Air	tert-Butyl alcohol	1.36	J	1.15	3.03	ug/m3
Q1728-12	SSSG-B1-3-040120	Air	Acetone	48.5		1.14	2.38	ug/m3
Q1728-12	SSSG-B1-3-040120	Air	Methylene Chloride	7.99		1.32	3.47	ug/m3
Q1728-12	SSSG-B1-3-040120	Air	2-Butanone	1.47	J	0.71	2.95	ug/m3
Q1728-12	SSSG-B1-3-040120	Air	Carbon Tetrachloride	0.88		0.13	0.38	ug/m3
Q1728-12	SSSG-B1-3-040120	Air	Chloroform	30.3		0.83	4.88	ug/m3
Q1728-12	SSSG-B1-3-040120	Air	Benzene	0.89	J	0.54	3.19	ug/m3
Q1728-12	SSSG-B1-3-040120	Air	Trichloroethene	0.54		0.16	0.32	ug/m3
Q1728-12	SSSG-B1-3-040120	Air	Toluene	3.58	J	0.83	3.77	ug/m3
Q1728-12	SSSG-B1-3-040120	Air	Tetrachloroethene	3.25		0.20	0.41	ug/m3
Q1728-12	SSSG-B1-3-040120	Air	m/p-Xylene	3.04	J	1.82	8.69	ug/m3
Q1728-12	SSSG-B1-3-040120	Air	o-Xylene	1.22	J	1.04	4.34	ug/m3
Q1728-12	SSSG-B1-3-040120	Air	1,2,4-Trimethylbenzene	1.13	J	0.79	4.92	ug/m3
Q1728-12	SSSG-B1-3-040120	Air	Hexane	2.26	J	0.78	3.52	ug/m3
Total Voc :					109			
Q1728-12	SSSG-B1-3-040120	Air	1-Propene, 2-methyl-	* 2.30	J	0	0	ppbv
Q1728-12	SSSG-B1-3-040120	Air	Undecane, 4,6-dimethyl-	* 3.40	J	0	0	ppbv
Q1728-12	SSSG-B1-3-040120	Air	Propane, 1-(1,1-dimethylethoxy)	* 3.60	J	0	0	ppbv
Q1728-12	SSSG-B1-3-040120	Air	Octane, 2,2,6-trimethyl-	* 2.30	J	0	0	ppbv
Q1728-12	SSSG-B1-3-040120	Air	Chlorodifluoromethane	* 0.35	J	0.18	1.00	ppbv
Q1728-12	SSSG-B1-3-040120	Air	Propene	* 0.42	J	0.30	1.00	ppbv
Total Tics :					12.4			
Total Concentration:					121			

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : SSSG-B14-2-04012025

Analysis Date : 04/08/25

Laboratory Id Number : Q1728-01

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	0.49	J	2.42		
Chloromethane	74-87-3	50.49	0.56	J	1.16		
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	0.23	J	0.94		
1,1-Dichloroethene	75-35-4	96.94	0.28	U	1.11		
Acetone	67-64-1	58.08	53.3	E	126		
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	4		13.9		
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	0.79	J	2.33		
Carbon Tetrachloride	56-23-5	153.8	0.08		0.5		
cis-1,2-Dichloroethene	156-59-2	96.94	0.18	U	0.71		
Chloroform	67-66-3	119.4	0.23	J	1.12		
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	0.32	J	1.02		
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	1.4		5.28		
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-B14-2-04012025

Analysis Date : 04/08/25

Laboratory Id Number : Q1728-01

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	0.95	J	4.13		
m/p-Xylene	179601-23-1	106.2	3.7		16.1		
o-Xylene	95-47-6	106.2	0.86	J	3.74		
Styrene	100-42-5	104.1	0.51	J	2.17		
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	0.33	J	1.62		
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	1.2		4.23		
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-B14-2-04012025D

Analysis Date : 04/08/25

Laboratory Id Number : Q1728-01DL

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	63.1	D	149		
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	4.3	JD	14.9		
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	1.6	JD	6.03		
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-B14-2-04012025D

Analysis Date : 04/08/25

Laboratory Id Number : Q1728-01DL

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	JD	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-B1-5-04012025

Analysis Date : 04/09/25

Laboratory Id Number : Q1728-02

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	0.45	J	2.23		
Chloromethane	74-87-3	50.49	0.28	J	0.58		
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	9.4		22.3		
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	1.5		5.21		
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	0.35	J	1.03		
Carbon Tetrachloride	56-23-5	153.8	0.09		0.57		
cis-1,2-Dichloroethene	156-59-2	96.94	0.18	U	0.71		
Chloroform	67-66-3	119.4	0.17	U	0.83		
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	0.21	J	0.67		
1,2-Dichloroethane	107-06-2	98.96	0.18	U	0.73		
Trichloroethene	79-01-6	131.4	0.07		0.38		
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	0.98	J	3.69		
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-B1-5-04012025

Analysis Date : 04/09/25

Laboratory Id Number : Q1728-02

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	0.03	U	0.2		
Chlorobenzene	108-90-7	112.6	0.15	U	0.69		
Ethyl Benzene	100-41-4	106.2	0.24	U	1.04		
m/p-Xylene	179601-23-1	106.2	0.73	J	3.17		
o-Xylene	95-47-6	106.2	0.27	J	1.17		
Styrene	100-42-5	104.1	0.3	J	1.28		
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	0.46	J	1.62		
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 : 04/02/25

Field Id Number : SSSG-B2-2-04022025

Analysis Date : 04/09/25

Laboratory Id Number : Q1728-03

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	8.4	U	41.5		
Chloromethane	74-87-3	50.49	3.9	U	8.05		
Vinyl Chloride	75-01-4	62.5	0.56	U	1.43		
Bromomethane	74-83-9	94.94	5.6	U	21.7		
Chloroethane	75-00-3	64.52	6.8	U	17.9		
Tetrahydrofuran	109-99-9	72.11	5.2	U	15.3		
Trichlorofluoromethane	75-69-4	137.4	6.4	U	36.0		
Dichlorotetrafluoroethane	76-14-2	170.9	3.5	U	24.5		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	6.4	U	49.0		
tert-Butyl alcohol	75-65-0	74.12	7.6	U	23.0		
Heptane	142-82-5	100.2	13.2	J	54.1		
1,1-Dichloroethene	75-35-4	96.94	5.6	U	22.2		
Acetone	67-64-1	58.08	99.6		236		
Carbon Disulfide	75-15-0	76.14	25.2		78.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	4.8	U	17.3		
Methylene Chloride	75-09-2	84.94	14.8	J	51.4		
trans-1,2-Dichloroethene	156-60-5	96.94	7.6	U	30.1		
1,1-Dichloroethane	75-34-3	98.96	5.2	U	21.0		
Cyclohexane	110-82-7	84.16	28		96.4		
2-Butanone	78-93-3	72.11	6.8	J	20.1		
Carbon Tetrachloride	56-23-5	153.8	0.44	U	2.77		
cis-1,2-Dichloroethene	156-59-2	96.94	3.6	U	14.3		
Chloroform	67-66-3	119.4	3.3	U	16.1		
1,1,1-Trichloroethane	71-55-6	133.4	0.38	U	2.07		
2,2,4-Trimethylpentane	540-84-1	114.2	4	U	18.7		
Benzene	71-43-2	78.11	3.5	U	11.2		
1,2-Dichloroethane	107-06-2	98.96	3.6	U	14.6		
Trichloroethene	79-01-6	131.4	0.68	U	3.65		
1,2-Dichloropropane	78-87-5	113	4.4	U	20.3		
Bromodichloromethane	75-27-4	163.8	3.1	U	20.8		
4-Methyl-2-Pentanone	108-10-1	100.2	3.7	U	15.2		
Toluene	108-88-3	92.14	22.8		85.9		
t-1,3-Dichloropropene	10061-02-6	111	2.4	U	10.9		
cis-1,3-Dichloropropene	10061-01-5	111	2.6	U	11.8		
1,1,2-Trichloroethane	79-00-5	133.4	2.8	U	15.3		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/02/25

Field Id Number : SSSG-B2-2-04022025

Analysis Date : 04/09/25

Laboratory Id Number : Q1728-03

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	2.6	U	22.2		
1,2-Dibromoethane	106-93-4	187.9	2.9	U	22.3		
Tetrachloroethene	127-18-4	165.8	0.6	U	4.07		
Chlorobenzene	108-90-7	112.6	3	U	13.8		
Ethyl Benzene	100-41-4	106.2	46.8		203		
m/p-Xylene	179601-23-1	106.2	510		2215		
o-Xylene	95-47-6	106.2	400		1737		
Styrene	100-42-5	104.1	4.4	U	18.7		
Bromoform	75-25-2	252.8	2.3	U	23.8		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.44	U	3.02		
2-Chlorotoluene	95-49-8	126.6	4.4	U	22.8		
1,3,5-Trimethylbenzene	108-67-8	120.2	180		884		
1,2,4-Trimethylbenzene	95-63-6	120.2	210		1032		
1,3-Dichlorobenzene	541-73-1	147	3.2	U	19.2		
1,4-Dichlorobenzene	106-46-7	147	2.1	U	12.6		
1,2-Dichlorobenzene	95-50-1	147	3	U	18.0		
1,2,4-Trichlorobenzene	120-82-1	181.5	3.4	U	25.2		
Hexachloro-1,3-Butadiene	87-68-3	260.8	3.4	U	36.3		
Naphthalene	91-20-3	128.17	3	U	15.7		
1,3-Butadiene	106-99-0	54.09	5.2	U	11.5		
4-Ethyltoluene	622-96-8	120.2	74		363		
Hexane	110-54-3	86.17	4.4	U	15.5		
Allyl Chloride	107-05-1	76.53	6	U	18.8		
1,4-Dioxane	123-91-1	88.12	8.4	U	30.3		
Methyl Methacrylate	80-62-6	100.117	3.4	U	13.9		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/02/25

Field Id Number : SSSG-B2-7-04022025

Analysis Date : 04/09/25

Laboratory Id Number : Q1728-04

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	0.84	U	4.15		
Chloromethane	74-87-3	50.49	0.79	J	1.63		
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	3.1		9.4		
Heptane	142-82-5	100.2	1.2	J	4.92		
1,1-Dichloroethene	75-35-4	96.94	0.56	U	2.22		
Acetone	67-64-1	58.08	260	E	617		
Carbon Disulfide	75-15-0	76.14	11		34.3		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.48	U	1.73		
Methylene Chloride	75-09-2	84.94	3.9		13.6		
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	15.8		46.6		
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	0.41	J	2		
1,1,1-Trichloroethane	71-55-6	133.4	0.04	U	0.22		
2,2,4-Trimethylpentane	540-84-1	114.2	3		14.0		
Benzene	71-43-2	78.11	4.1		13.1		
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	2.3		9.43		
Toluene	108-88-3	92.14	14.4		54.3		
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 : 04/02/25

Field Id Number : SSSG-B2-7-04022025

Analysis Date : 04/09/25

Laboratory Id Number : Q1728-04

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	0.06	U	0.41		
Chlorobenzene	108-90-7	112.6	0.3	U	1.38		
Ethyl Benzene	100-41-4	106.2	0.75	J	3.26		
m/p-Xylene	179601-23-1	106.2	2.6	J	11.3		
o-Xylene	95-47-6	106.2	0.83	J	3.61		
Styrene	100-42-5	104.1	0.78	J	3.32		
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	2.1		7.4		
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 : 04/02/25

Field Id Number : SSSG-B2-7-04022025DL

Analysis Date : 04/09/25

Laboratory Id Number : Q1728-04DL

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	310	D	736		
Carbon Disulfide	75-15-0	76.14	9.6	JD	29.9		
Methyl tert-Butyl Ether	1634-04-4	88.15	4.8	UD	17.3		
Methylene Chloride	75-09-2	84.94	10.9	JD	37.9		
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	14.4	JD	42.5		
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	3.9	JD	12.5		
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	9.1	JD	34.3		
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 : 04/02/25

Field Id Number : SSSG-B2-7-04022025DL

Analysis Date : 04/09/25

Laboratory Id Number : Q1728-04DL

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 : 04/02/25

Field Id Number : SSSG-B2-6-04022025

Analysis Date : 04/09/25

Laboratory Id Number : Q1728-05

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	0.84	U	4.15		
Chloromethane	74-87-3	50.49	0.59	J	1.22		
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	2.7		8.19		
Heptane	142-82-5	100.2	1.4	J	5.74		
1,1-Dichloroethene	75-35-4	96.94	0.56	U	2.22		
Acetone	67-64-1	58.08	340	E	807		
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	5.1		17.7		
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	18.3		54.0		
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	0.33	U	1.61		
1,1,1-Trichloroethane	71-55-6	133.4	0.04	U	0.22		
2,2,4-Trimethylpentane	540-84-1	114.2	4.4		20.6		
Benzene	71-43-2	78.11	1.2	J	3.83		
1,2-Dichloroethane	107-06-2	98.96	0.36	U	1.46		
Trichloroethene	79-01-6	131.4	0.3		1.61		
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	0.8	J	3.28		
Toluene	108-88-3	92.14	22.9		86.3		
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 : 04/02/25

Field Id Number : SSSG-B2-6-04022025

Analysis Date : 04/09/25

Laboratory Id Number : Q1728-05

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	0.06	U	0.41		
Chlorobenzene	108-90-7	112.6	0.75	J	3.45		
Ethyl Benzene	100-41-4	106.2	1.1	J	4.78		
m/p-Xylene	179601-23-1	106.2	3.4	J	14.8		
o-Xylene	95-47-6	106.2	1.5	J	6.52		
Styrene	100-42-5	104.1	0.6	J	2.55		
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	17		88.0		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.44	U	2.16		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.42	J	2.06		
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		
1,3-Butadiene	106-99-0	54.09	0.52	U	1.15		
Naphthalene	91-20-3	128.17	0.3	U	1.57		
4-Ethyltoluene	622-96-8	120.2	0.48	U	2.36		
Hexane	110-54-3	86.17	1.8	J	6.34		
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 : 04/02/25

Field Id Number : SSSG-B2-6-04022025DL

Analysis Date : 04/09/25

Laboratory Id Number : Q1728-05DL

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	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	450	D	1068		
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	10.5	JD	36.5		
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	15.2	JD	44.8		
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	12.5	JD	47.1		
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 : 04/02/25

Field Id Number : SSSG-B2-6-04022025DL

Analysis Date : 04/09/25

Laboratory Id Number : Q1728-05DL

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	8.1	JD	41.9		
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 : 04/02/25

Field Id Number : SSSG-B2-5-04022025

Analysis Date : 04/08/25

Laboratory Id Number : Q1728-06

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	2.1	U	10.4		
Chloromethane	74-87-3	50.49	1	J	2.07		
Vinyl Chloride	75-01-4	62.5	0.14	U	0.36		
Bromomethane	74-83-9	94.94	1.4	U	5.44		
Chloroethane	75-00-3	64.52	1.7	U	4.49		
Tetrahydrofuran	109-99-9	72.11	1.3	U	3.83		
Trichlorofluoromethane	75-69-4	137.4	1.6	U	8.99		
Dichlorotetrafluoroethane	76-14-2	170.9	0.88	U	6.15		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	1.6	U	12.3		
tert-Butyl alcohol	75-65-0	74.12	2.4	J	7.28		
Heptane	142-82-5	100.2	6.8		27.9		
1,1-Dichloroethene	75-35-4	96.94	1.4	U	5.55		
Acetone	67-64-1	58.08	410	E	973		
Carbon Disulfide	75-15-0	76.14	24.1		75.0		
Methyl tert-Butyl Ether	1634-04-4	88.15	1.2	U	4.33		
Methylene Chloride	75-09-2	84.94	9.1		31.6		
trans-1,2-Dichloroethene	156-60-5	96.94	1.9	U	7.53		
1,1-Dichloroethane	75-34-3	98.96	1.3	U	5.26		
Cyclohexane	110-82-7	84.16	8.4		28.9		
2-Butanone	78-93-3	72.11	26.8		79.0		
Carbon Tetrachloride	56-23-5	153.8	0.11	U	0.69		
cis-1,2-Dichloroethene	156-59-2	96.94	0.89	U	3.53		
Chloroform	67-66-3	119.4	0.83	U	4.05		
1,1,1-Trichloroethane	71-55-6	133.4	0.1	U	0.55		
2,2,4-Trimethylpentane	540-84-1	114.2	13.1		61.2		
Benzene	71-43-2	78.11	13.3		42.5		
1,2-Dichloroethane	107-06-2	98.96	0.91	U	3.68		
Trichloroethene	79-01-6	131.4	0.17	U	0.91		
1,2-Dichloropropane	78-87-5	113	1.1	U	5.08		
Bromodichloromethane	75-27-4	163.8	0.77	U	5.16		
4-Methyl-2-Pentanone	108-10-1	100.2	0.93	U	3.81		
Toluene	108-88-3	92.14	57		214		
t-1,3-Dichloropropene	10061-02-6	111	0.6	U	2.72		
cis-1,3-Dichloropropene	10061-01-5	111	0.64	U	2.91		
1,1,2-Trichloroethane	79-00-5	133.4	0.71	U	3.87		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/02/25

Field Id Number : SSSG-B2-5-04022025

Analysis Date : 04/08/25

Laboratory Id Number : Q1728-06

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.66	U	5.62		
1,2-Dibromoethane	106-93-4	187.9	0.72	U	5.53		
Tetrachloroethene	127-18-4	165.8	0.15	U	1.02		
Chlorobenzene	108-90-7	112.6	1.1	J	5.07		
Ethyl Benzene	100-41-4	106.2	7.1		30.8		
m/p-Xylene	179601-23-1	106.2	21.2		92.1		
o-Xylene	95-47-6	106.2	8.8		38.2		
Styrene	100-42-5	104.1	1.1	U	4.68		
Bromoform	75-25-2	252.8	0.57	U	5.89		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.11	U	0.76		
2-Chlorotoluene	95-49-8	126.6	5.7		29.5		
1,3,5-Trimethylbenzene	108-67-8	120.2	1.1	U	5.41		
1,2,4-Trimethylbenzene	95-63-6	120.2	2	J	9.83		
1,3-Dichlorobenzene	541-73-1	147	0.8	U	4.81		
1,4-Dichlorobenzene	106-46-7	147	0.53	U	3.19		
1,2-Dichlorobenzene	95-50-1	147	0.75	U	4.51		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.85	U	6.31		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.85	U	9.07		
Naphthalene	91-20-3	128.17	0.75	U	3.93		
1,3-Butadiene	106-99-0	54.09	1.3	U	2.88		
4-Ethyltoluene	622-96-8	120.2	1.2	U	5.9		
Hexane	110-54-3	86.17	4.5	J	15.9		
Allyl Chloride	107-05-1	76.53	1.5	U	4.7		
1,4-Dioxane	123-91-1	88.12	2.1	U	7.57		
Methyl Methacrylate	80-62-6	100.117	0.86	U	3.52		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/02/25

Field Id Number : SSSG-B2-5-04022025DL

Analysis Date : 04/08/25

Laboratory Id Number : Q1728-06DL

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	5.9	JD	24.2		
1,1-Dichloroethene	75-35-4	96.94	5.6	UD	22.2		
Acetone	67-64-1	58.08	410	D	973		
Carbon Disulfide	75-15-0	76.14	20.1	D	62.6		
Methyl tert-Butyl Ether	1634-04-4	88.15	4.8	UD	17.3		
Methylene Chloride	75-09-2	84.94	12.9	JD	44.8		
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	25.1	D	74.0		
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	10.9	JD	50.9		
Benzene	71-43-2	78.11	12.6	JD	40.2		
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	49.1	D	185		
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 : 04/02/25

Field Id Number : SSSG-B2-5-04022025DL

Analysis Date : 04/08/25

Laboratory Id Number : Q1728-06DL

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	0.6	UD	4.07		
Chlorobenzene	108-90-7	112.6	3	UD	13.8		
Ethyl Benzene	100-41-4	106.2	6	JD	26.1		
m/p-Xylene	179601-23-1	106.2	15.7	JD	68.2		
o-Xylene	95-47-6	106.2	6.7	JD	29.1		
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	JD	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-B1-1-04012025

Analysis Date : 04/08/25

Laboratory Id Number : Q1728-07

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	0.84	U	4.15		
Chloromethane	74-87-3	50.49	0.39	U	0.81		
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	0.76	U	2.3		
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	3.7		8.79		
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	1.4	J	4.86		
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	0.48	U	1.42		
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	1.1	J	5.37		
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	3.1		11.7		
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 : 04/01/25

Field Id Number : SSSG-B1-1-04012025

Analysis Date : 04/08/25

Laboratory Id Number : Q1728-07

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	0.06	U	0.41		
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	1.1	J	4.78		
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	0.58	J	2.04		
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 : 04/02/25

Field Id Number : SSSG-B2-4-04022025

Analysis Date : 04/08/25

Laboratory Id Number : Q1728-08

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	2.1	U	10.4		
Chloromethane	74-87-3	50.49	0.98	U	2.02		
Vinyl Chloride	75-01-4	62.5	0.14	U	0.36		
Bromomethane	74-83-9	94.94	1.4	U	5.44		
Chloroethane	75-00-3	64.52	1.7	U	4.49		
Tetrahydrofuran	109-99-9	72.11	1.3	U	3.83		
Trichlorofluoromethane	75-69-4	137.4	1.6	U	8.99		
Dichlorotetrafluoroethane	76-14-2	170.9	0.88	U	6.15		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	1.6	U	12.3		
tert-Butyl alcohol	75-65-0	74.12	2.6	J	7.88		
Heptane	142-82-5	100.2	2.2	J	9.02		
1,1-Dichloroethene	75-35-4	96.94	1.4	U	5.55		
Acetone	67-64-1	58.08	340	E	807		
Carbon Disulfide	75-15-0	76.14	1.6	U	4.98		
Methyl tert-Butyl Ether	1634-04-4	88.15	1.2	U	4.33		
Methylene Chloride	75-09-2	84.94	11.9		41.3		
trans-1,2-Dichloroethene	156-60-5	96.94	1.9	U	7.53		
1,1-Dichloroethane	75-34-3	98.96	1.3	U	5.26		
Cyclohexane	110-82-7	84.16	2.2	U	7.57		
2-Butanone	78-93-3	72.11	4.6	J	13.6		
Carbon Tetrachloride	56-23-5	153.8	0.11	U	0.69		
cis-1,2-Dichloroethene	156-59-2	96.94	0.89	U	3.53		
Chloroform	67-66-3	119.4	0.83	U	4.05		
1,1,1-Trichloroethane	71-55-6	133.4	0.1	U	0.55		
2,2,4-Trimethylpentane	540-84-1	114.2	1.7	J	7.94		
Benzene	71-43-2	78.11	0.87	U	2.78		
1,2-Dichloroethane	107-06-2	98.96	0.91	U	3.68		
Trichloroethene	79-01-6	131.4	1		5.37		
1,2-Dichloropropane	78-87-5	113	1.1	U	5.08		
Bromodichloromethane	75-27-4	163.8	0.77	U	5.16		
4-Methyl-2-Pentanone	108-10-1	100.2	0.93	U	3.81		
Toluene	108-88-3	92.14	9.3		35.0		
t-1,3-Dichloropropene	10061-02-6	111	0.6	U	2.72		
cis-1,3-Dichloropropene	10061-01-5	111	0.64	U	2.91		
1,1,2-Trichloroethane	79-00-5	133.4	0.71	U	3.87		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/02/25

Field Id Number : SSSG-B2-4-04022025

Analysis Date : 04/08/25

Laboratory Id Number : Q1728-08

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.66	U	5.62		
1,2-Dibromoethane	106-93-4	187.9	0.72	U	5.53		
Tetrachloroethene	127-18-4	165.8	0.15	U	1.02		
Chlorobenzene	108-90-7	112.6	0.76	U	3.5		
Ethyl Benzene	100-41-4	106.2	7.1		30.8		
m/p-Xylene	179601-23-1	106.2	98.6		428		
o-Xylene	95-47-6	106.2	74.8		324		
Styrene	100-42-5	104.1	1.1	U	4.68		
Bromoform	75-25-2	252.8	0.57	U	5.89		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.11	U	0.76		
2-Chlorotoluene	95-49-8	126.6	1.1	U	5.7		
1,3,5-Trimethylbenzene	108-67-8	120.2	32.4		159		
1,2,4-Trimethylbenzene	95-63-6	120.2	37.8		185		
1,3-Dichlorobenzene	541-73-1	147	0.8	U	4.81		
1,4-Dichlorobenzene	106-46-7	147	0.53	U	3.19		
1,2-Dichlorobenzene	95-50-1	147	0.75	U	4.51		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.85	U	6.31		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.85	U	9.07		
Naphthalene	91-20-3	128.17	0.75	U	3.93		
1,3-Butadiene	106-99-0	54.09	1.3	U	2.88		
4-Ethyltoluene	622-96-8	120.2	13.1		64.4		
Hexane	110-54-3	86.17	2.4	J	8.46		
Allyl Chloride	107-05-1	76.53	1.5	U	4.7		
1,4-Dioxane	123-91-1	88.12	2.1	U	7.57		
Methyl Methacrylate	80-62-6	100.117	0.86	U	3.52		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/02/25

Field Id Number : SSSG-B2-4-04022025DL

Analysis Date : 04/08/25

Laboratory Id Number : Q1728-08DL

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	380	D	902		
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	17.7	JD	61.5		
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	4.9	JD	14.4		
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	7.3	JD	27.5		
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 : 04/02/25

Field Id Number : SSSG-B2-4-04022025DL

Analysis Date : 04/08/25

Laboratory Id Number : Q1728-08DL

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	0.6	UD	4.07		
Chlorobenzene	108-90-7	112.6	3	UD	13.8		
Ethyl Benzene	100-41-4	106.2	5.5	JD	23.9		
m/p-Xylene	179601-23-1	106.2	79.4	D	344		
o-Xylene	95-47-6	106.2	61.7	D	268		
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	29.2	D	143		
1,2,4-Trimethylbenzene	95-63-6	120.2	32	D	157		
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	10.4	JD	51.1		
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 : 04/02/25

Field Id Number : SSSG-B2-1-04022025

Analysis Date : 04/08/25

Laboratory Id Number : Q1728-09

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	U	10.4		
Chloromethane	74-87-3	50.49	0.98	U	2.02		
Vinyl Chloride	75-01-4	62.5	0.14	U	0.36		
Bromomethane	74-83-9	94.94	1.4	U	5.44		
Chloroethane	75-00-3	64.52	1.7	U	4.49		
Tetrahydrofuran	109-99-9	72.11	1.3	U	3.83		
Trichlorofluoromethane	75-69-4	137.4	1.6	U	8.99		
Dichlorotetrafluoroethane	76-14-2	170.9	0.88	U	6.15		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	1.6	U	12.3		
tert-Butyl alcohol	75-65-0	74.12	1.9	U	5.76		
Heptane	142-82-5	100.2	1.1	U	4.51		
1,1-Dichloroethene	75-35-4	96.94	1.4	U	5.55		
Acetone	67-64-1	58.08	21.5		51.1		
Carbon Disulfide	75-15-0	76.14	1.6	U	4.98		
Methyl tert-Butyl Ether	1634-04-4	88.15	1.2	U	4.33		
Methylene Chloride	75-09-2	84.94	2.5	J	8.69		
trans-1,2-Dichloroethene	156-60-5	96.94	1.9	U	7.53		
1,1-Dichloroethane	75-34-3	98.96	1.3	U	5.26		
Cyclohexane	110-82-7	84.16	2.2	U	7.57		
2-Butanone	78-93-3	72.11	1.3	J	3.83		
Carbon Tetrachloride	56-23-5	153.8	0.11	U	0.69		
cis-1,2-Dichloroethene	156-59-2	96.94	0.89	U	3.53		
Chloroform	67-66-3	119.4	3.5	J	17.1		
1,1,1-Trichloroethane	71-55-6	133.4	0.1	U	0.55		
2,2,4-Trimethylpentane	540-84-1	114.2	1	U	4.67		
Benzene	71-43-2	78.11	0.87	U	2.78		
1,2-Dichloroethane	107-06-2	98.96	0.91	U	3.68		
Trichloroethene	79-01-6	131.4	0.17	U	0.91		
1,2-Dichloropropane	78-87-5	113	1.1	U	5.08		
Bromodichloromethane	75-27-4	163.8	0.77	U	5.16		
4-Methyl-2-Pentanone	108-10-1	100.2	0.93	U	3.81		
Toluene	108-88-3	92.14	4.3	J	16.2		
t-1,3-Dichloropropene	10061-02-6	111	0.6	U	2.72		
cis-1,3-Dichloropropene	10061-01-5	111	0.64	U	2.91		
1,1,2-Trichloroethane	79-00-5	133.4	0.71	U	3.87		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/02/25

Field Id Number : SSSG-B2-1-04022025

Analysis Date : 04/08/25

Laboratory Id Number : Q1728-09

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.66	U	5.62		
1,2-Dibromoethane	106-93-4	187.9	0.72	U	5.53		
Tetrachloroethene	127-18-4	165.8	0.15	U	1.02		
Chlorobenzene	108-90-7	112.6	0.76	U	3.5		
Ethyl Benzene	100-41-4	106.2	5.5		23.9		
m/p-Xylene	179601-23-1	106.2	89		386		
o-Xylene	95-47-6	106.2	72.9		316		
Styrene	100-42-5	104.1	1.1	U	4.68		
Bromoform	75-25-2	252.8	0.57	U	5.89		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.11	U	0.76		
2-Chlorotoluene	95-49-8	126.6	1.1	U	5.7		
1,3,5-Trimethylbenzene	108-67-8	120.2	67.3		330		
1,2,4-Trimethylbenzene	95-63-6	120.2	98.6		484		
1,3-Dichlorobenzene	541-73-1	147	0.8	U	4.81		
1,4-Dichlorobenzene	106-46-7	147	0.53	U	3.19		
1,2-Dichlorobenzene	95-50-1	147	0.75	U	4.51		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.85	U	6.31		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.85	U	9.07		
Naphthalene	91-20-3	128.17	0.75	U	3.93		
1,3-Butadiene	106-99-0	54.09	1.3	U	2.88		
4-Ethyltoluene	622-96-8	120.2	1.2	U	5.9		
Hexane	110-54-3	86.17	1.1	U	3.88		
Allyl Chloride	107-05-1	76.53	1.5	U	4.7		
1,4-Dioxane	123-91-1	88.12	2.1	U	7.57		
Methyl Methacrylate	80-62-6	100.117	0.86	U	3.52		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : SSSG-B14-4-04012025

Analysis Date : 04/09/25

Laboratory Id Number : Q1728-10

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	0.51	J	2.52		
Chloromethane	74-87-3	50.49	0.5	J	1.03		
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	25.4		60.3		
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	7.3		25.4		
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	0.66	J	1.95		
Carbon Tetrachloride	56-23-5	153.8	0.08		0.5		
cis-1,2-Dichloroethene	156-59-2	96.94	0.18	U	0.71		
Chloroform	67-66-3	119.4	0.17	U	0.83		
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	0.54	J	2.03		
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-B14-4-04012025

Analysis Date : 04/09/25

Laboratory Id Number : Q1728-10

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	0.03	U	0.2		
Chlorobenzene	108-90-7	112.6	0.15	U	0.69		
Ethyl Benzene	100-41-4	106.2	0.42	J	1.82		
m/p-Xylene	179601-23-1	106.2	1.7	J	7.38		
o-Xylene	95-47-6	106.2	0.39	J	1.69		
Styrene	100-42-5	104.1	0.24	J	1.02		
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	0.21	J	1.03		
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		
1,3-Butadiene	106-99-0	54.09	0.26	U	0.58		
Naphthalene	91-20-3	128.17	0.15	U	0.79		
4-Ethyltoluene	622-96-8	120.2	0.24	U	1.18		
Hexane	110-54-3	86.17	1.6		5.64		
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-B1-4-04012025

Analysis Date : 04/08/25

Laboratory Id Number : Q1728-11

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	0.43	J	2.13		
Chloromethane	74-87-3	50.49	0.2	U	0.41		
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	11.7		27.8		
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	0.67	J	2.33		
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	0.41	J	1.21		
Carbon Tetrachloride	56-23-5	153.8	0.15		0.94		
cis-1,2-Dichloroethene	156-59-2	96.94	0.18	U	0.71		
Chloroform	67-66-3	119.4	0.56	J	2.73		
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	0.29	J	0.93		
1,2-Dichloroethane	107-06-2	98.96	0.18	U	0.73		
Trichloroethene	79-01-6	131.4	0.2		1.07		
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	0.21	J	0.86		
Toluene	108-88-3	92.14	1.5		5.65		
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-B1-4-04012025

Analysis Date : 04/08/25

Laboratory Id Number : Q1728-11

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	0.29		1.97		
Chlorobenzene	108-90-7	112.6	0.15	U	0.69		
Ethyl Benzene	100-41-4	106.2	0.31	J	1.35		
m/p-Xylene	179601-23-1	106.2	1.3	J	5.65		
o-Xylene	95-47-6	106.2	0.52	J	2.26		
Styrene	100-42-5	104.1	0.56	J	2.38		
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	0.31	J	1.52		
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	0.42	J	1.48		
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-B1-3-04012025

Analysis Date : 04/08/25

Laboratory Id Number : Q1728-12

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	0.23	J	0.47		
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	0.45	J	1.36		
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	20.4		48.5		
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	2.3		7.99		
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	0.5	J	1.47		
Carbon Tetrachloride	56-23-5	153.8	0.14		0.88		
cis-1,2-Dichloroethene	156-59-2	96.94	0.18	U	0.71		
Chloroform	67-66-3	119.4	6.2		30.3		
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	0.28	J	0.89		
1,2-Dichloroethane	107-06-2	98.96	0.18	U	0.73		
Trichloroethene	79-01-6	131.4	0.1		0.54		
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	0.95	J	3.58		
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-B1-3-04012025

Analysis Date : 04/08/25

Laboratory Id Number : Q1728-12

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	0.48		3.25		
Chlorobenzene	108-90-7	112.6	0.15	U	0.69		
Ethyl Benzene	100-41-4	106.2	0.24	U	1.04		
m/p-Xylene	179601-23-1	106.2	0.7	J	3.04		
o-Xylene	95-47-6	106.2	0.28	J	1.22		
Styrene	100-42-5	104.1	0.22	U	0.94		
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	0.23	J	1.13		
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	0.64	J	2.26		
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		

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
02232022T13:12:00	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.: Q1728

Client: Woodard & Curran

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1728-01	SSSG-B14-2-04012025	1-Bromo-4-Fluorobenzene	10	9.63	96	70 (65)	130 (135)
Q1728-01DL	SSSG-B14-2-04012025DL	1-Bromo-4-Fluorobenzene	10	9.52	95	70 (65)	130 (135)
Q1728-02	SSSG-B1-5-04012025	1-Bromo-4-Fluorobenzene	10	9.51	95	70 (65)	130 (135)
Q1728-03	SSSG-B2-2-04022025	1-Bromo-4-Fluorobenzene	10	11.1	111	70 (65)	130 (135)
Q1728-04	SSSG-B2-7-04022025	1-Bromo-4-Fluorobenzene	10	9.10	91	70 (65)	130 (135)
Q1728-04DL	SSSG-B2-7-04022025DL	1-Bromo-4-Fluorobenzene	10	9.22	92	70 (65)	130 (135)
Q1728-05	SSSG-B2-6-04022025	1-Bromo-4-Fluorobenzene	10	9.33	93	70 (65)	130 (135)
Q1728-05DL	SSSG-B2-6-04022025DL	1-Bromo-4-Fluorobenzene	10	9.20	92	70 (65)	130 (135)
Q1728-06	SSSG-B2-5-04022025	1-Bromo-4-Fluorobenzene	10	9.55	96	70 (65)	130 (135)
Q1728-06DL	SSSG-B2-5-04022025DL	1-Bromo-4-Fluorobenzene	10	9.20	92	70 (65)	130 (135)
Q1728-07	SSSG-B1-1-04012025	1-Bromo-4-Fluorobenzene	10	9.63	96	70 (65)	130 (135)
Q1728-08	SSSG-B2-4-04022025	1-Bromo-4-Fluorobenzene	10	9.51	95	70 (65)	130 (135)
Q1728-08DL	SSSG-B2-4-04022025DL	1-Bromo-4-Fluorobenzene	10	9.53	95	70 (65)	130 (135)
Q1728-09	SSSG-B2-1-04022025	1-Bromo-4-Fluorobenzene	10	9.59	96	70 (65)	130 (135)
Q1728-09DUP	SSSG-B2-1-04022025DUP	1-Bromo-4-Fluorobenzene	10	9.52	95	70 (65)	130 (135)
Q1728-10	SSSG-B14-4-04012025	1-Bromo-4-Fluorobenzene	10	10.2	102	70 (65)	130 (135)
Q1728-11	SSSG-B1-4-04012025	1-Bromo-4-Fluorobenzene	10	9.52	95	70 (65)	130 (135)
Q1728-12	SSSG-B1-3-04012025	1-Bromo-4-Fluorobenzene	10	9.47	95	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.: Q1728

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.: Q1728

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 :	Q1728-09DUP	Q1728-09
Client Id :	SSSG-B2-1-04022025DUP	SSSG-B2-1-04022025
DF :	10	10
Datafile :	VL042276.D	VL042266.D
Anal Date & Time :	04/08/2025 23:13	04/08/2025 16:27

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	100	98.6	1.4
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	69.8	67.3	3.6
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	1.3	1.3	0
2-Chlorotoluene	0	0	0
4-Ethyltoluene	0	0	0
4-Methyl-2-Pentanone	0	0	0
Acetone	21.5	21.5	0
Allyl Chloride	0	0	0
Benzene	0	0	0
Bromodichloromethane	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	0	0	0
Carbon Tetrachloride	0	0	0

Duplicate Sample Summary

Lab Sample Id :	Q1728-09DUP	Q1728-09
Client Id :	SSSG-B2-1-04022025DUP	SSSG-B2-1-04022025
DF :	10	10
Datafile :	VL042276.D	VL042266.D
Anal Date & Time :	04/08/2025 23:13	04/08/2025 16:27

Parameter	Result	Result	RPD
Chlorobenzene	0	0	0
Chloroethane	0	0	0
Chloroform	3.6	3.5	2.8
Chloromethane	0	0	0
cis-1,2-Dichloroethene	0	0	0
cis-1,3-Dichloropropene	0	0	0
Cyclohexane	0	0	0
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0	0	0
Dichlorotetrafluoroethane	0	0	0
Ethyl Benzene	5	5.5	9.5
Heptane	0	0	0
Hexachloro-1,3-Butadiene	0	0	0
Hexane	0	0	0
m/p-Xylene	86.6	89	2.7
Methyl Methacrylate	0	0	0
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	2.8	2.5	11.3
Naphthalene	0	0	0
o-Xylene	72	72.9	1.2
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	4	4.3	7.2
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0	0	0
Trichlorofluoromethane	0	0	0
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0408ABL01

Lab Name: CHEMTECH

Contract: WOOD06

Lab Code: CHEM Case No.: Q1728

SAS No.: Q1728 SDG NO.: Q1728

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-B2-5-04022025	Q1728-06	VL042260.D	04/08/2025
SSSG-B2-5-04022025DL	Q1728-06DL	VL042261.D	04/08/2025
SSSG-B2-4-04022025	Q1728-08	VL042263.D	04/08/2025
SSSG-B2-1-04022025	Q1728-09	VL042266.D	04/08/2025
SSSG-B14-2-04012025DL	Q1728-01DL	VL042267.D	04/08/2025
SSSG-B1-1-04012025	Q1728-07	VL042272.D	04/08/2025
SSSG-B2-4-04022025DL	Q1728-08DL	VL042273.D	04/08/2025
SSSG-B1-4-04012025	Q1728-11	VL042274.D	04/08/2025
SSSG-B1-3-04012025	Q1728-12	VL042275.D	04/08/2025
SSSG-B2-1-04022025DUP	Q1728-09DUP	VL042276.D	04/08/2025
SSSG-B14-2-04012025	Q1728-01	VL042277.D	04/08/2025
SSSG-B1-5-04012025	Q1728-02	VL042278.D	04/09/2025
SSSG-B2-7-04022025	Q1728-04	VL042279.D	04/09/2025
SSSG-B2-7-04022025DL	Q1728-04DL	VL042280.D	04/09/2025
SSSG-B2-6-04022025	Q1728-05	VL042281.D	04/09/2025
SSSG-B2-6-04022025DL	Q1728-05DL	VL042282.D	04/09/2025
SSSG-B14-4-04012025	Q1728-10	VL042283.D	04/09/2025
SSSG-B2-2-04022025	Q1728-03	VL042284.D	04/09/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: WOOD06
Lab Code: CHEM Case No.: Q1728 SAS No.: Q1728 SDG NO.: Q1728
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.: Q1728 SAS No.: Q1728 SDG NO.: Q1728
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-B2-5-04022025	Q1728-06	VL042260.D	04/08/2025	13:07
SSSG-B2-5-04022025DL	Q1728-06DL	VL042261.D	04/08/2025	13:52
SSSG-B2-4-04022025	Q1728-08	VL042263.D	04/08/2025	14:53
SSSG-B2-1-04022025	Q1728-09	VL042266.D	04/08/2025	16:27
SSSG-B14-2-04012025DL	Q1728-01DL	VL042267.D	04/08/2025	16:58
SSSG-B1-1-04012025	Q1728-07	VL042272.D	04/08/2025	20:30
SSSG-B2-4-04022025DL	Q1728-08DL	VL042273.D	04/08/2025	21:37
SSSG-B1-4-04012025	Q1728-11	VL042274.D	04/08/2025	22:11
SSSG-B1-3-04012025	Q1728-12	VL042275.D	04/08/2025	22:42
SSSG-B2-1-04022025DUP	Q1728-09DUP	VL042276.D	04/08/2025	23:13
SSSG-B14-2-04012025	Q1728-01	VL042277.D	04/08/2025	23:44
SSSG-B1-5-04012025	Q1728-02	VL042278.D	04/09/2025	00:15
SSSG-B2-7-04022025	Q1728-04	VL042279.D	04/09/2025	00:46
SSSG-B2-7-04022025DL	Q1728-04DL	VL042280.D	04/09/2025	01:18
SSSG-B2-6-04022025	Q1728-05	VL042281.D	04/09/2025	01:49

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: WOOD06
Lab Code: CHEM Case No.: Q1728 SAS No.: Q1728 SDG NO.: Q1728
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
SSSG-B2-6-04022025DL	Q1728-05DL	VL042282.D	04/09/2025	02:20
SSSG-B14-4-04012025	Q1728-10	VL042283.D	04/09/2025	02:51
SSSG-B2-2-04022025	Q1728-03	VL042284.D	04/09/2025	03:22



Lab Name:	<u>CHEMTECH</u>			Contract:	<u>WOOD06</u>		
Lab Code:	<u>CHEM</u>	Case No.:	<u>Q1728</u>	SAS No.:	<u>Q1728</u>	SDG NO.:	<u>Q1728</u>
Lab File ID:	<u>VL042253.D</u>			Date Analyzed:	<u>04/08/2025</u>		
Instrument ID:	<u>MSVOA_L</u>			Time Analyzed:	<u>08:39</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	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-B14-2-04012025	164142	2.79	421001	3.97	366383	8.89
SSSG-B14-2-04012025DL	162199	2.80	442538	3.98	374779	8.90
SSSG-B1-5-04012025	158831	2.79	406344	3.96	351845	8.89
SSSG-B2-2-04022025	156706	2.79	394605	3.96	369232	8.89
SSSG-B2-7-04022025	154351	2.79	392096	3.97	376954	8.89
SSSG-B2-7-04022025DL	147116	2.79	371349	3.97	326259	8.89
SSSG-B2-6-04022025	153705	2.79	388271	3.96	381682	8.88
SSSG-B2-6-04022025DL	151544	2.79	379950	3.96	331294	8.88
SSSG-B2-5-04022025	155754	2.80	446160	3.98	402493	8.90
SSSG-B2-5-04022025DL	158005	2.80	439373	3.98	391568	8.90
SSSG-B1-1-04012025	160928	2.80	398547	3.98	347731	8.89
SSSG-B2-4-04022025	164494	2.80	443030	3.98	423016	8.90
SSSG-B2-4-04022025DL	152932	2.79	379227	3.97	368372	8.89
SSSG-B2-1-04022025	157346	2.80	411449	3.98	406705	8.90
SSSG-B2-1-04022025DUP	158259	2.79	390082	3.96	405082	8.89
SSSG-B14-4-04012025	155290	2.79	388359	3.96	341830	8.88
SSSG-B1-4-04012025	156372	2.79	398763	3.97	359554	8.89
SSSG-B1-3-04012025	160295	2.79	399383	3.97	355820	8.89
VL0408ABL01	194254	2.80	507155	3.98	433594	8.90
VL0408ABS01	190420	2.80	494678	3.98	447066	8.90

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WOOD06
 Lab Code: CHEM Case No.: Q1728 SAS No.: Q1728 SDG NO.: Q1728
 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.						

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-B14-2-04012025	SDG No.:	Q1728
Lab Sample ID:	Q1728-01	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
VL042277.D	2		04/08/25 23:44	VL040825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.49	2.42	J	2.08	4.94	ug/m3
74-87-3	Chloromethane	0.56	1.16	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	0.23	0.94	J	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	53.3	127	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	4.00	13.9		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	0.79	2.33	J	0.71	2.95	ug/m3
56-23-5	Carbon Tetrachloride	0.080	0.50		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	0.23	1.12	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	0.32	1.02	J	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	1.40	5.28		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-B14-2-04012025	SDG No.:	Q1728
Lab Sample ID:	Q1728-01	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
VL042277.D	2		04/08/25 23:44	VL040825

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	0.95	4.13	J	1.04	4.34	ug/m3
179601-23-1	m/p-Xylene	3.70	16.1		1.82	8.69	ug/m3
95-47-6	o-Xylene	0.86	3.74	J	1.04	4.34	ug/m3
100-42-5	Styrene	0.51	2.17	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	0.33	1.62	J	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	1.20	4.23		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	9.60		70 (65) - 130 (135)	96%	SPK: 10

INTERNAL STANDARDS

74-97-5	Bromochloromethane	164000	2.793
540-36-3	1,4-Difluorobenzene	421000	3.968
3114-55-4	Chlorobenzene-d5	366000	8.891

TENTATIVE IDENTIFIED COMPOUNDS

75-45-6	Chlorodifluoromethane	0.29	J	1.48	ppbv
115-07-1	Propene	0.54	J	1.49	ppbv
64-17-5	Ethanol	28.2	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:	SSSG-B14-2-04012025	SDG No.:	Q1728
Lab Sample ID:	Q1728-01	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
VL042277.D	2		04/08/25 23:44	VL040825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
67-63-0	Isopropyl Alcohol	170		J		1.89	ppbv
007452-79-1	Butanoic acid, 2-methyl-, ethyl es	2.40		J		9.16	ppbv
000563-16-6	Hexane, 3,3-dimethyl-	2.70		J		12.2	ppbv
	unknown12.257	2.40		J		12.3	ppbv
017312-57-1	Dodecane, 3-methyl-	2.30		J		12.4	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\VL040825\
 Data File : VL042277.D
 Acq On : 08 Apr 2025 23:44
 Operator : SY/MD
 Sample : Q1728-01 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B14-2-04012025

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
 Supervised By :Semsettin Yesilyurt 04/10/2025

Quant Time: Apr 09 02:02:31 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	2.793	49	164142	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	421001	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.891	117	366383	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	289703	9.629	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	5920	0.244	ppbv	89
3) Chlorodifluoromethane	1.479	51	3537m	0.143	ppbv	
4) Chloromethane	1.534	50	2769	0.280	ppbv	95
9) Propene	1.489	41	3082m	0.272	ppbv	
10) Heptane	4.991	43	3495m	0.116	ppbv	
11) Trichlorofluoromethane	1.881	101	2451	0.104	ppbv	86
13) Ethanol	1.725	45	15149	14.122	ppbv	79
15) Acetone	1.839	43	611384	26.633	ppbv	96
19) Isopropyl Alcohol	1.890	45	1073145	82.853	ppbv #	31
20) Methylene Chloride	2.065	84	17035	1.992	ppbv	93
26) Hexane	2.832	57	14226	0.618	ppbv #	38
29) Chloroform	2.855	83	3922	0.116	ppbv	84
34) 2-Butanone	2.567	43	12029	0.394	ppbv	100
35) Carbon Tetrachloride	3.781	117	1268m	0.039	ppbv	
36) Benzene	3.664	78	6732	0.161	ppbv #	89
52) Tetrachloroethene	8.228	164	648m	0.039	ppbv	
53) Toluene	6.943	91	35716	0.722	ppbv	97
58) Ethyl Benzene	9.364	91	30797	0.473	ppbv	92
59) m/p-Xylene	9.542	91	95378	1.835	ppbv	99
60) o-Xylene	9.969	91	22277	0.428	ppbv	96
61) Styrene	9.875	104	6538	0.254	ppbv	92
74) 1,2,4-Trimethylbenzene	11.545	105	10923	0.167	ppbv #	66

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

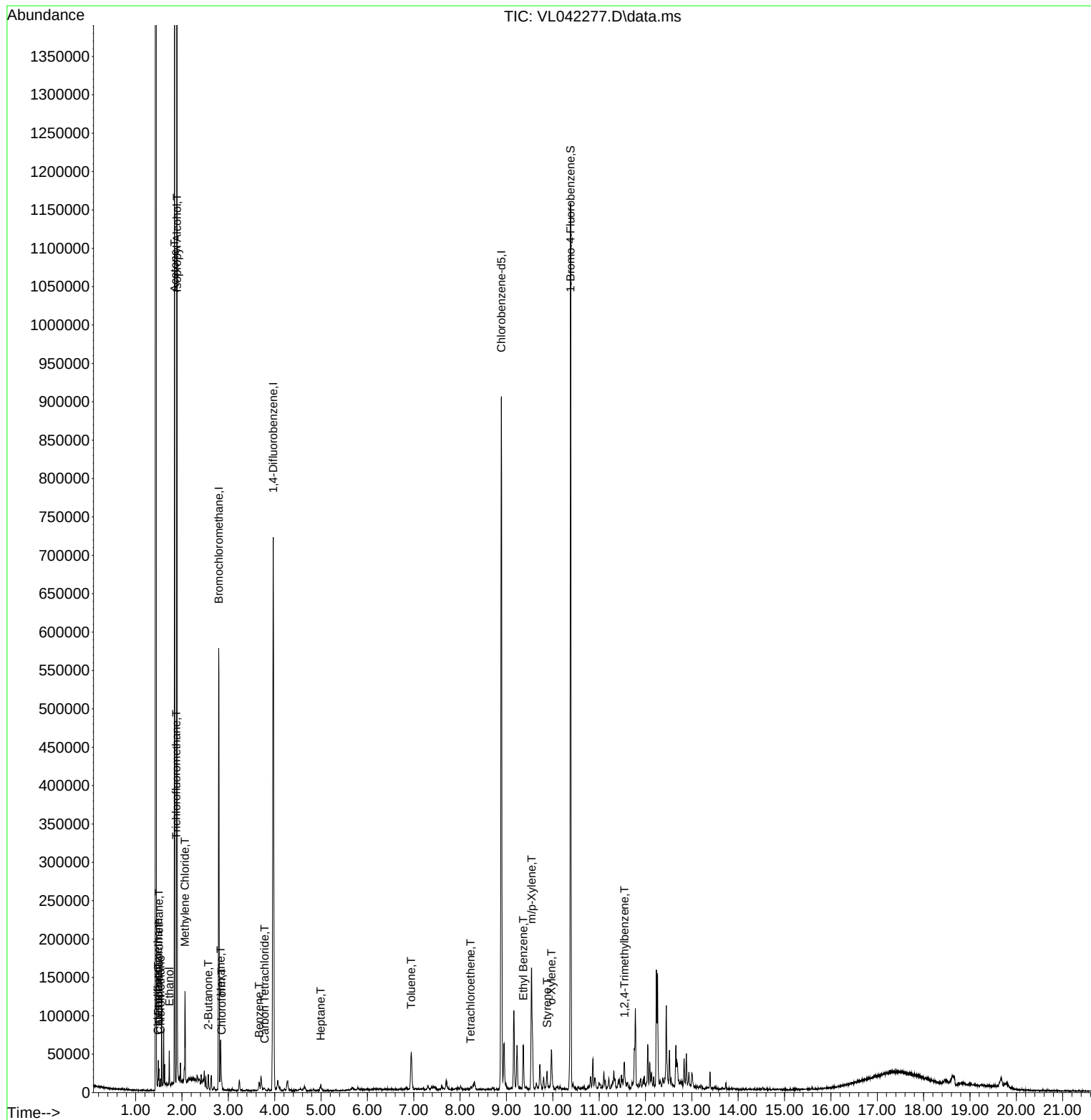
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Data File : VL042277.D
Acq On : 08 Apr 2025 23:44
Operator : SY/MD
Sample : Q1728-01 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

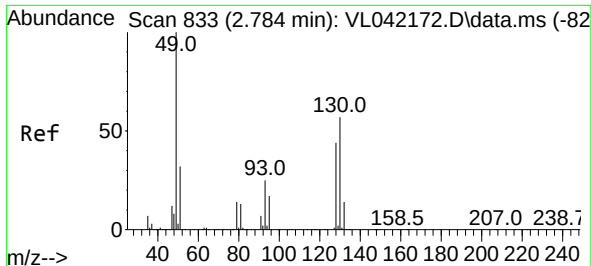
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025

Quant Time: Apr 09 02:02:31 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

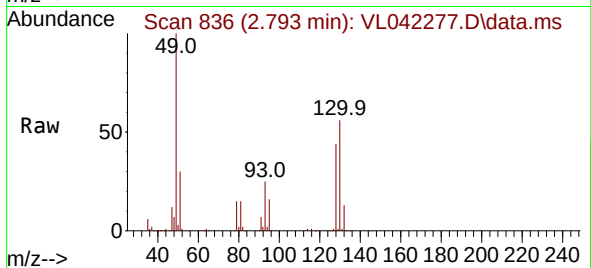
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.009 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

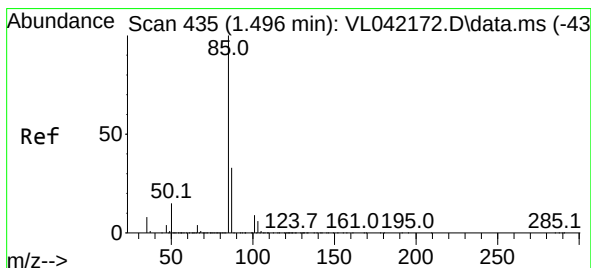
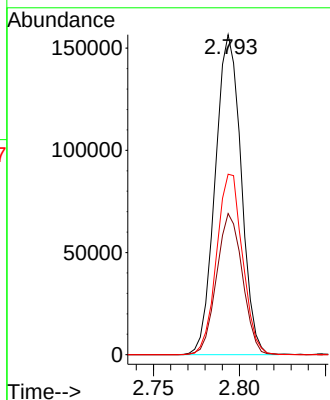
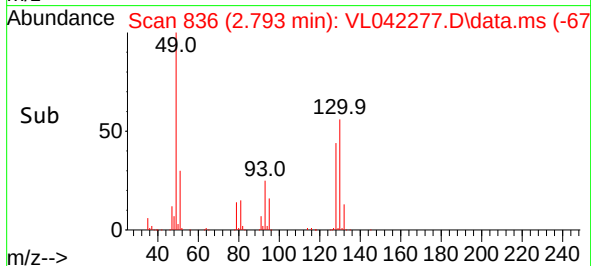
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025



Tgt Ion: 49 Resp: 16414
Ion Ratio Lower Upper
49 100
128 44.0 22.9 68.5
130 56.5 28.8 86.4

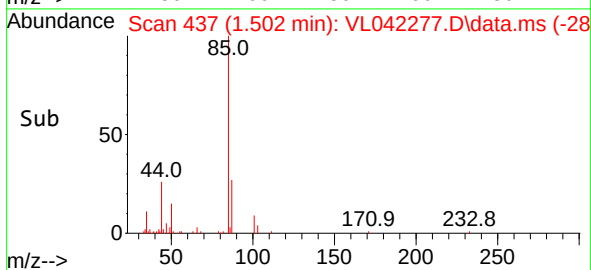
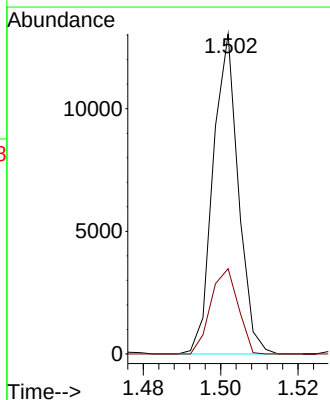
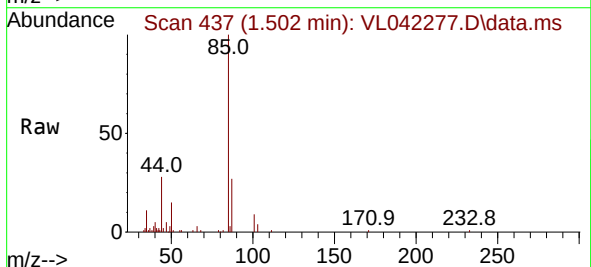
Manual Integrations
APPROVED

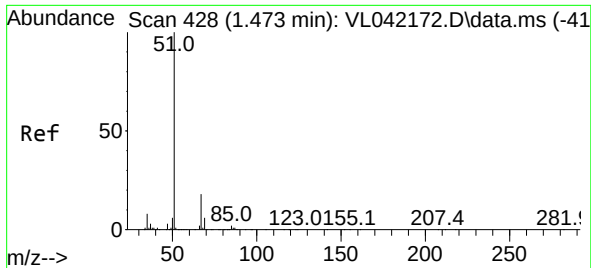
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#2
Dichlorodifluoromethane
Concen: 0.244 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

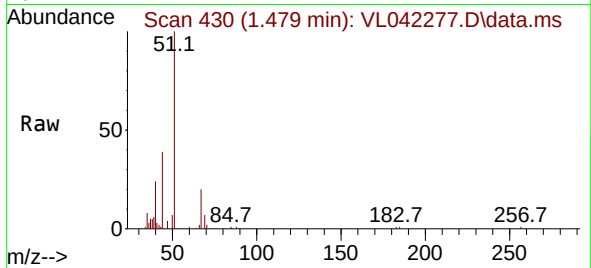
Tgt Ion: 85 Resp: 5920
Ion Ratio Lower Upper
85 100
87 26.7 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.143 ppbv m
RT: 1.479 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

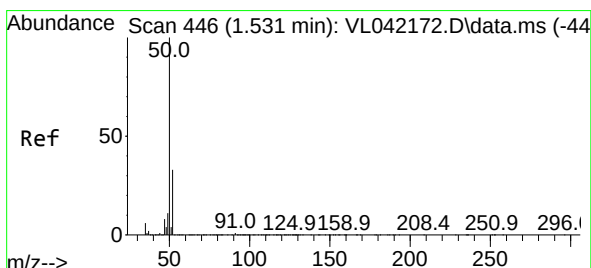
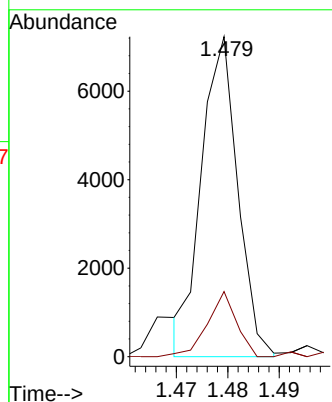
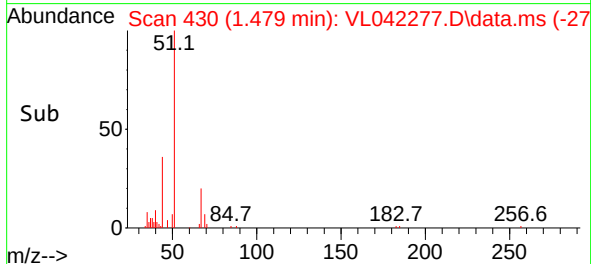
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025



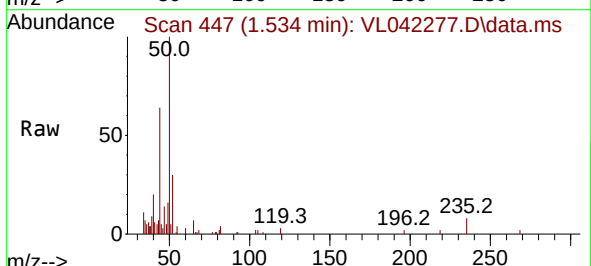
Tgt Ion: 51 Resp: 353
Ion Ratio Lower Upper
51 100
67 1.8 15.0 22.6

Manual Integrations
APPROVED

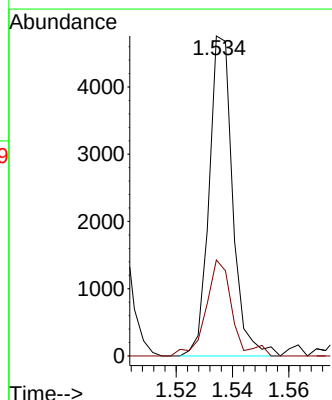
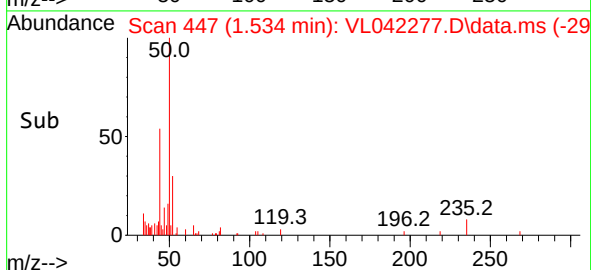
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

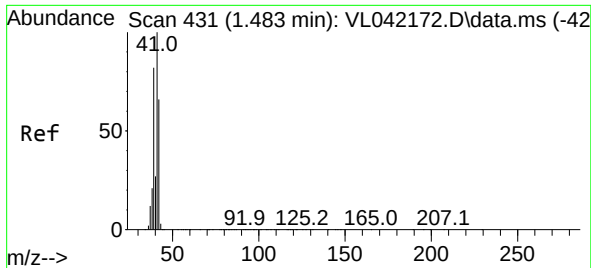


#4
Chloromethane
Concen: 0.280 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44



Tgt Ion: 50 Resp: 2769
Ion Ratio Lower Upper
50 100
52 30.0 26.1 39.1





#9

Propene

Concen: 0.272 ppbv m

RT: 1.489 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042277.D

Acq: 08 Apr 2025 23:44

Instrument :

MSVOA_L

ClientSampleId :

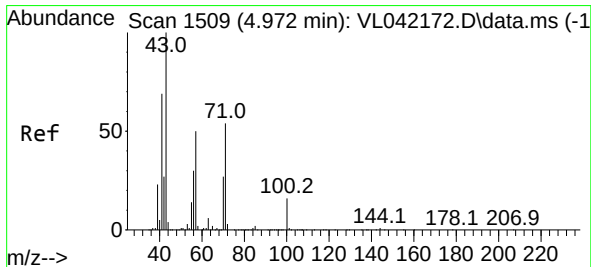
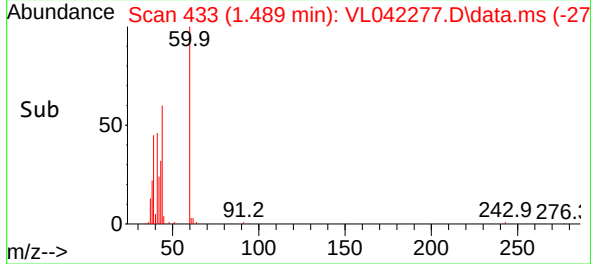
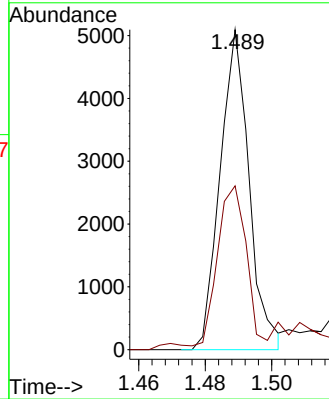
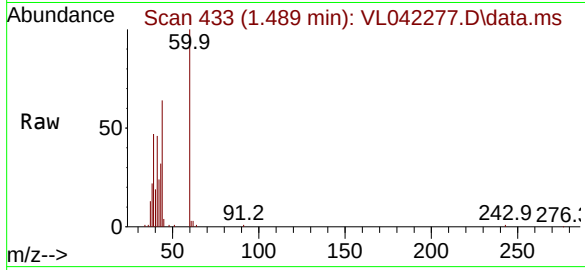
SSSG-B14-2-04012025

Tgt Ion: 41 Resp: 3082
Ion Ratio Lower Upper
41 100
42 1999.1 55.4 83.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#10

Heptane

Concen: 0.116 ppbv m

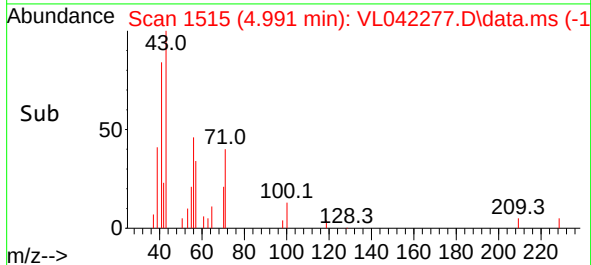
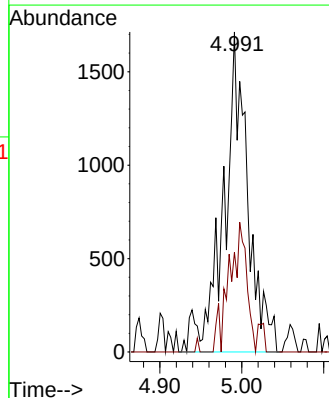
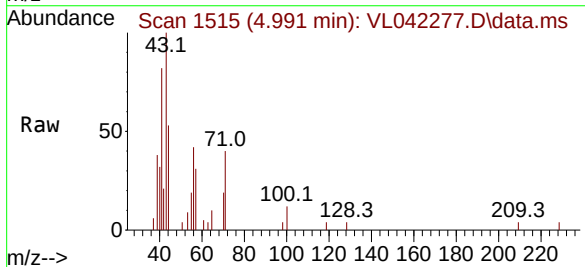
RT: 4.991 min Scan# 1515

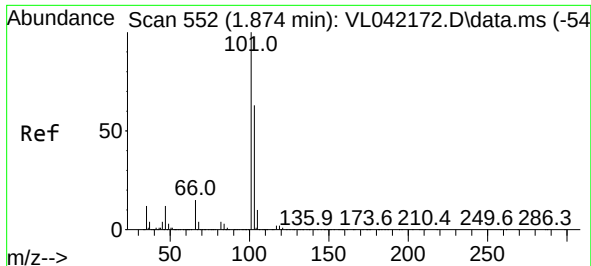
Delta R.T. 0.019 min

Lab File: VL042277.D

Acq: 08 Apr 2025 23:44

Tgt Ion: 43 Resp: 3495
Ion Ratio Lower Upper
43 100
57 0.0 39.4 59.2#





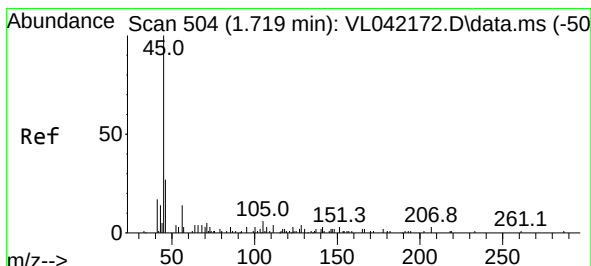
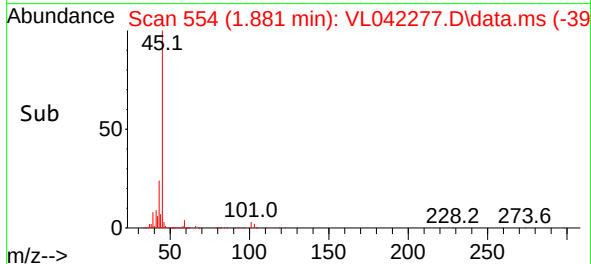
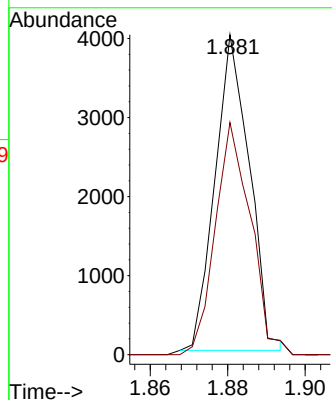
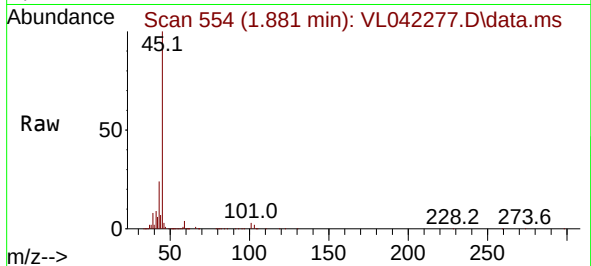
#11
Trichlorofluoromethane
Concen: 0.104 ppbv
RT: 1.881 min Scan# 506
Delta R.T. 0.006 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025

Tgt Ion:101 Resp: 245
Ion Ratio Lower Upper
101 100
103 73.5 50.2 75.2

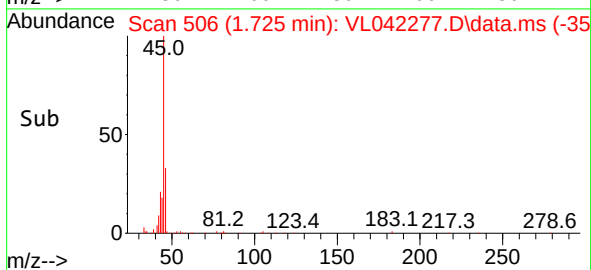
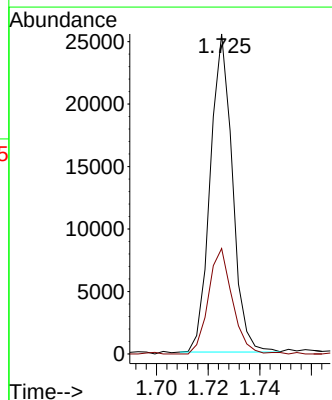
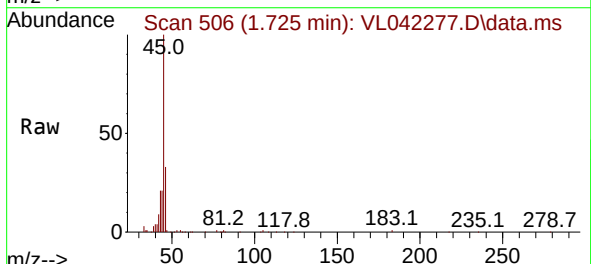
Manual Integrations
APPROVED

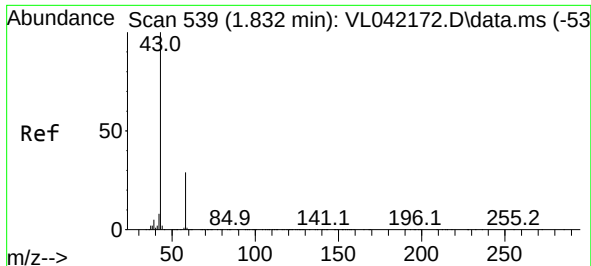
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#13
Ethanol
Concen: 14.122 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.006 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Tgt Ion: 45 Resp: 15149
Ion Ratio Lower Upper
45 100
46 36.3 20.2 80.8





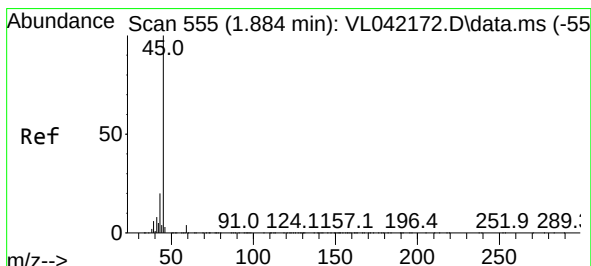
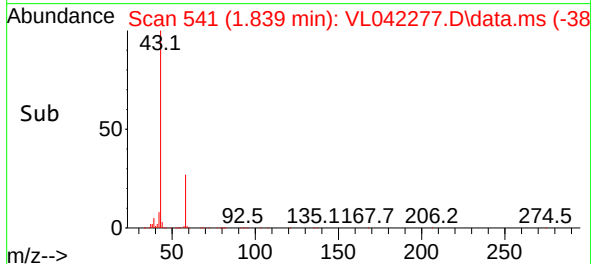
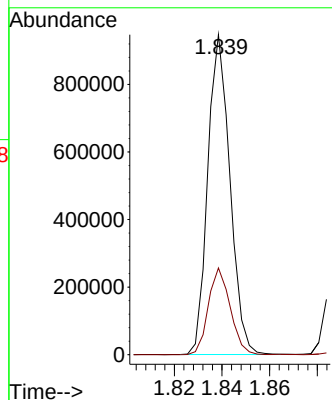
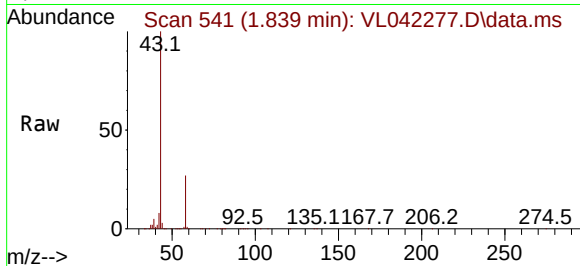
#15
Acetone
Concen: 26.633 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025

Tgt Ion: 43 Resp: 611384
Ion Ratio Lower Upper
43 100
58 26.8 23.2 34.8

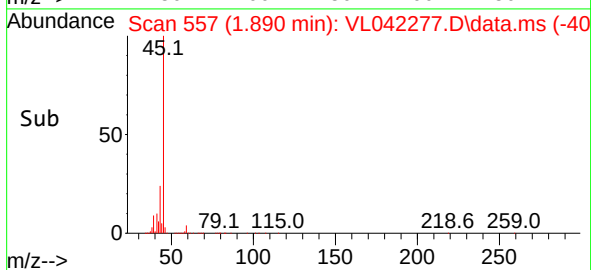
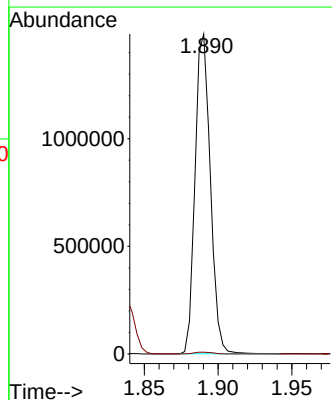
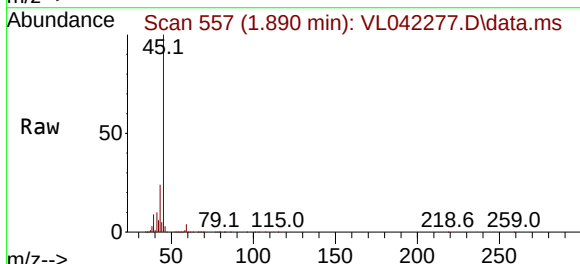
Manual Integrations
APPROVED

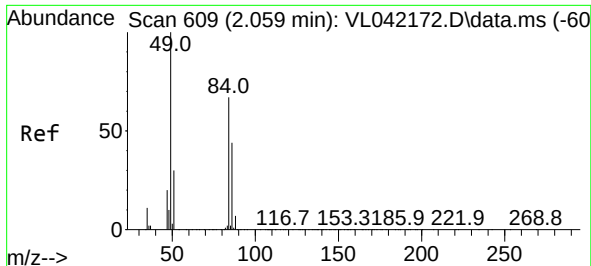
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#19
Isopropyl Alcohol
Concen: 82.853 ppbv
RT: 1.890 min Scan# 557
Delta R.T. 0.006 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

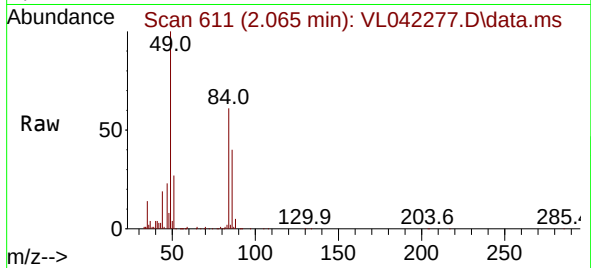
Tgt Ion: 45 Resp: 1073145
Ion Ratio Lower Upper
45 100
58 0.7 36.9 55.3#





#20
Methylene Chloride
Concen: 1.992 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

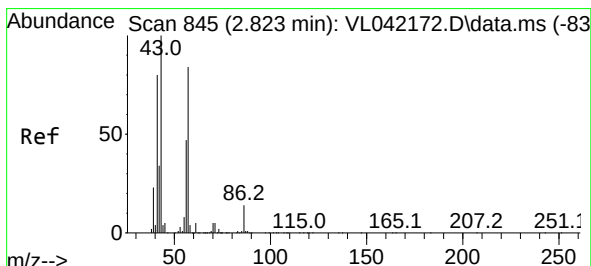
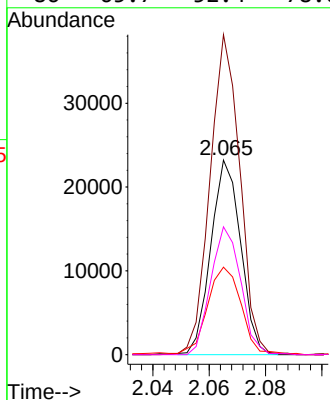
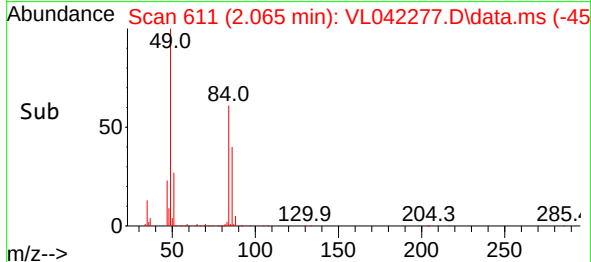
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025



Tgt Ion: 84 Resp: 17035
Ion Ratio Lower Upper
84 100
49 163.9 120.2 180.4
51 44.4 37.4 56.0
86 65.7 52.4 78.6

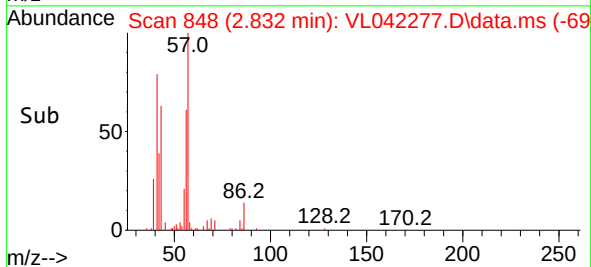
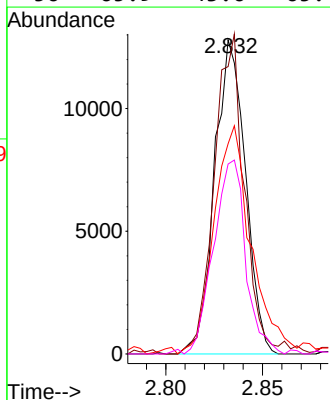
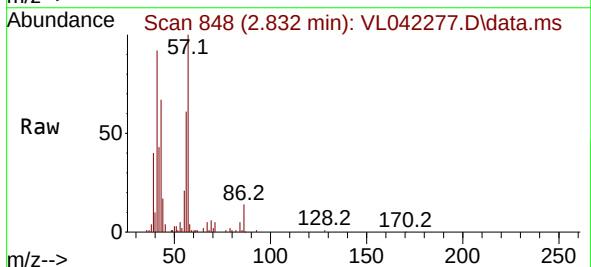
Manual Integrations
APPROVED

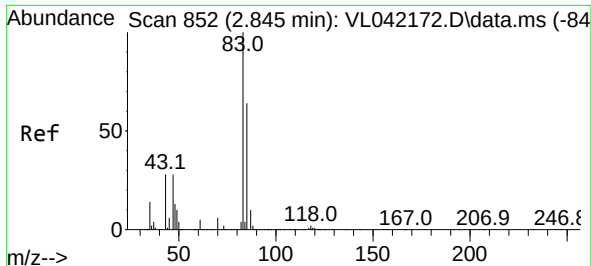
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#26
Hexane
Concen: 0.618 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.009 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Tgt Ion: 57 Resp: 14226
Ion Ratio Lower Upper
57 100
41 100.1 76.6 114.8
43 92.9 207.8 311.8#
56 65.9 43.6 65.4#





#29

Chloroform

Concen: 0.116 ppbv

RT: 2.855 min Scan# 855

Delta R.T. 0.009 min

Lab File: VL042277.D

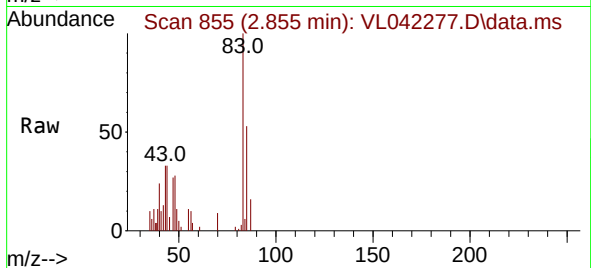
Acq: 08 Apr 2025 23:44

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-2-04012025

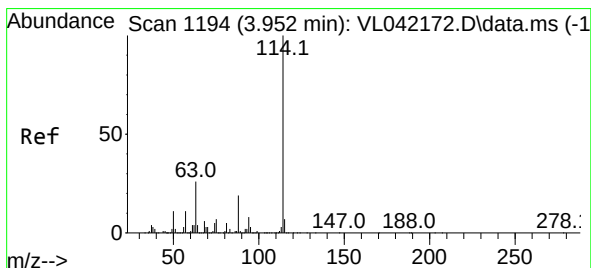
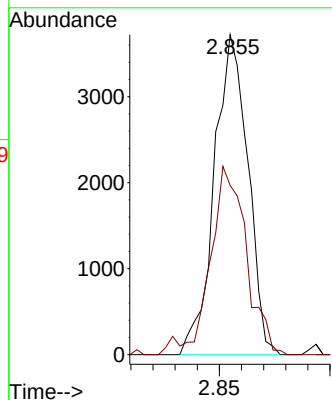
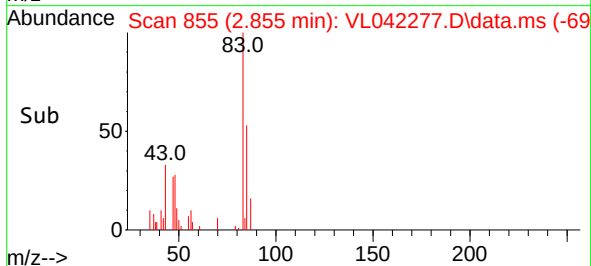


Tgt Ion:	83	Resp:	392
Ion Ratio	Lower	Upper	
83	100		
85	51.5	51.4	77.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

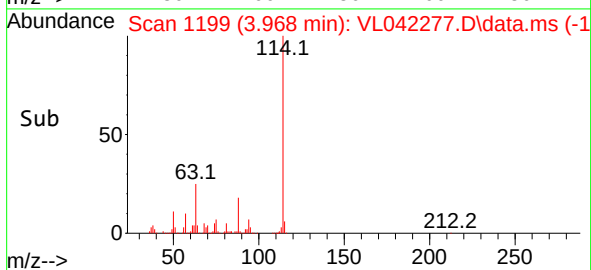
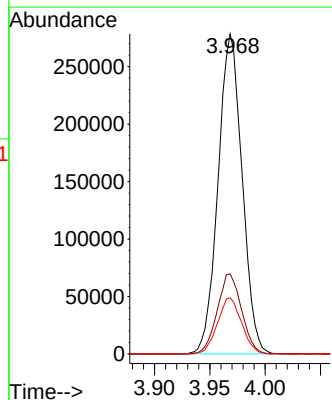
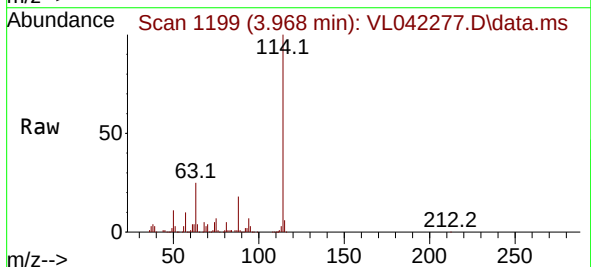
RT: 3.968 min Scan# 1199

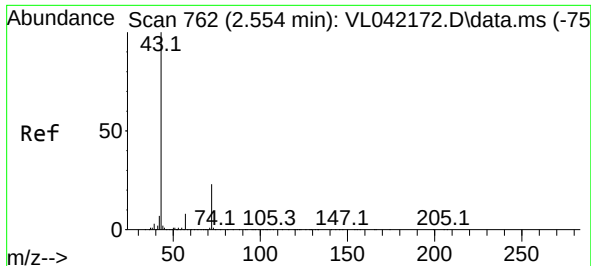
Delta R.T. 0.016 min

Lab File: VL042277.D

Acq: 08 Apr 2025 23:44

Tgt Ion:	114	Resp:	421001
Ion Ratio	Lower	Upper	
114	100		
63	25.3	20.7	31.1
88	17.6	15.0	22.4





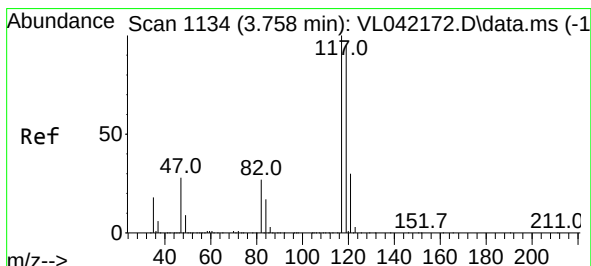
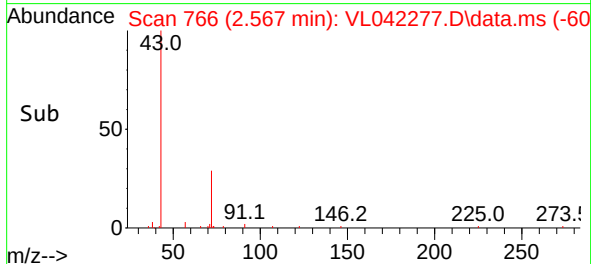
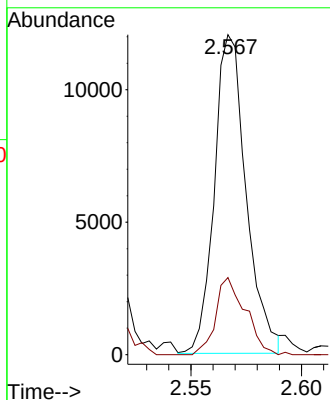
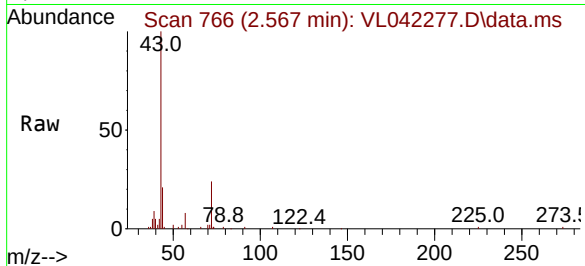
#34
2-Butanone
Concen: 0.394 ppbv
RT: 2.567 min Scan# 70
Delta R.T. 0.013 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025

Tgt Ion: 43 Resp: 12029
Ion Ratio Lower Upper
43 100
72 22.7 18.2 27.2

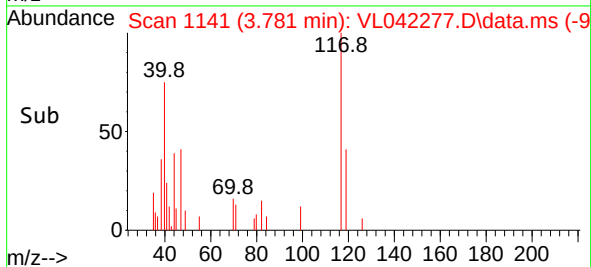
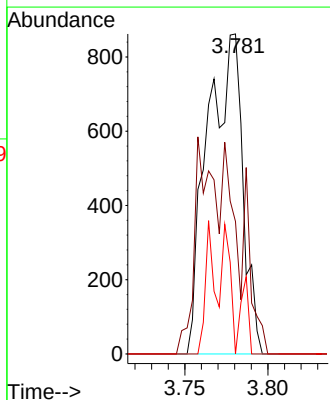
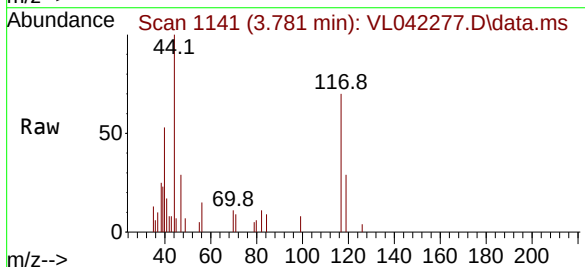
Manual Integrations
APPROVED

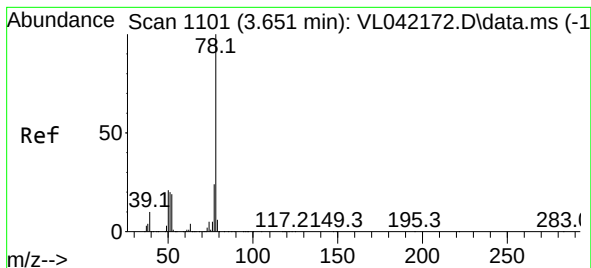
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#35
Carbon Tetrachloride
Concen: 0.039 ppbv m
RT: 3.781 min Scan# 1141
Delta R.T. 0.022 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Tgt Ion:117 Resp: 1268
Ion Ratio Lower Upper
117 100
119 41.4 76.2 114.2#
121 0.0 24.2 36.4#





#36

Benzene

Concen: 0.161 ppbv

RT: 3.664 min Scan# 1105

Delta R.T. 0.013 min

Lab File: VL042277.D

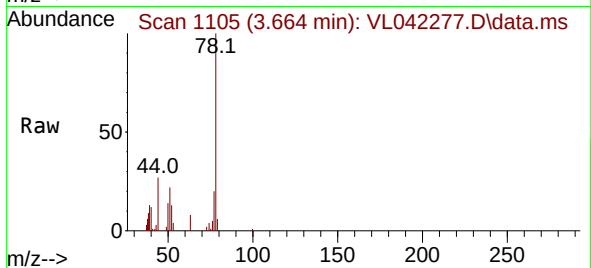
Acq: 08 Apr 2025 23:44

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-2-04012025

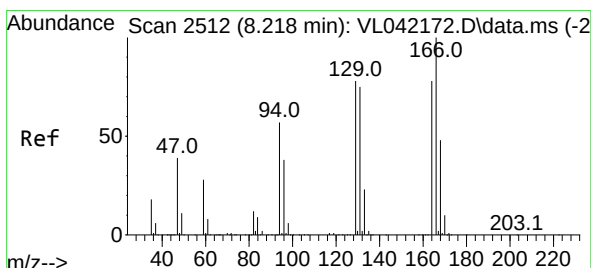
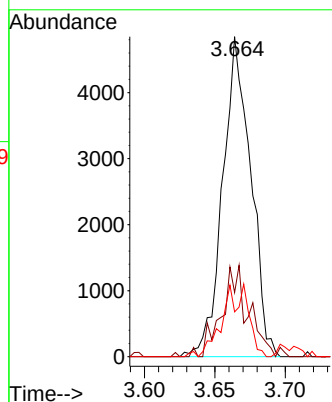
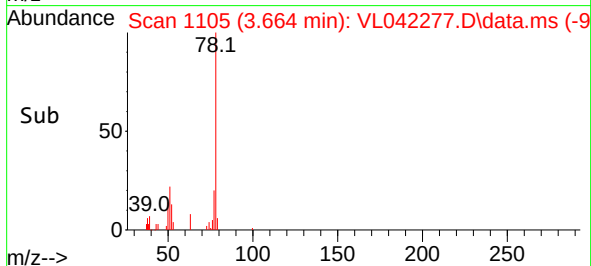


Tgt Ion: 78	Resp: 673
Ion Ratio	Lower Upper
78	100
77	20.1 19.1 28.7
50	14.0 16.6 24.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#52

Tetrachloroethene

Concen: 0.039 ppbv m

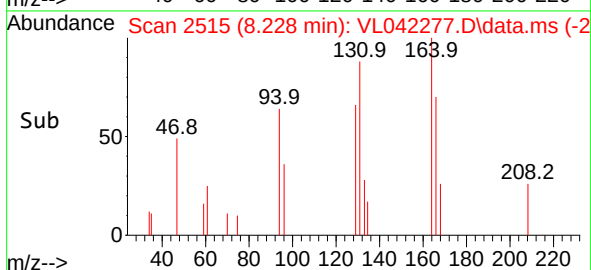
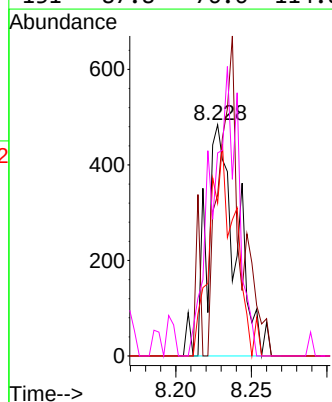
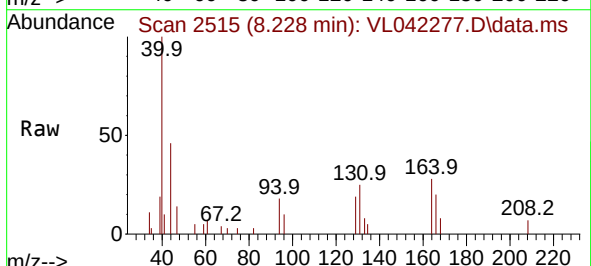
RT: 8.228 min Scan# 2515

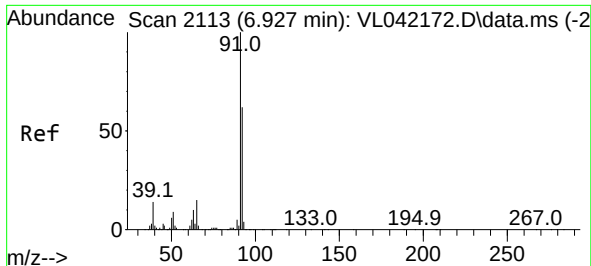
Delta R.T. 0.009 min

Lab File: VL042277.D

Acq: 08 Apr 2025 23:44

Tgt Ion:164	Resp: 648
Ion Ratio	Lower Upper
164	100
166	69.6 102.5 153.7#
129	66.1 79.8 119.8#
131	87.8 76.6 114.8





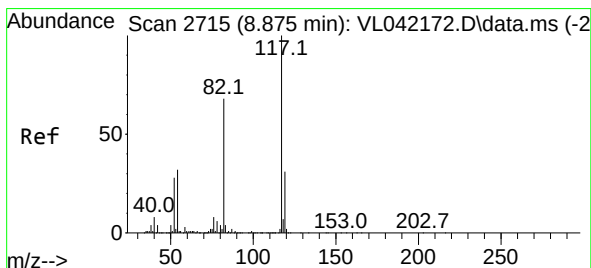
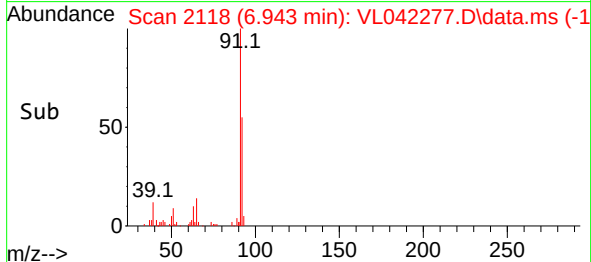
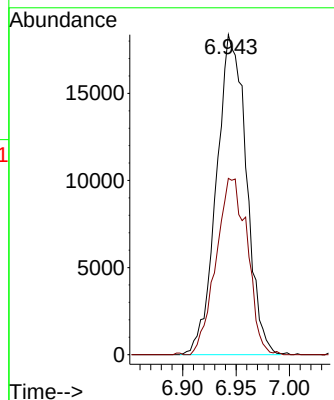
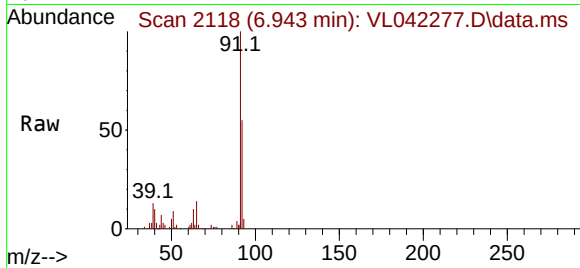
#53
Toluene
Concen: 0.722 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.016 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025

Tgt Ion: 91 Resp: 35710
Ion Ratio Lower Upper
91 100
92 57.9 48.4 72.6

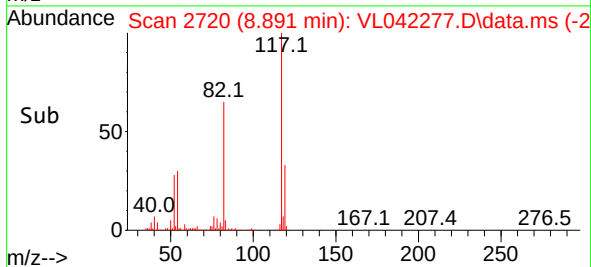
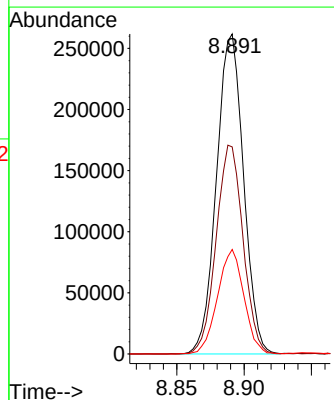
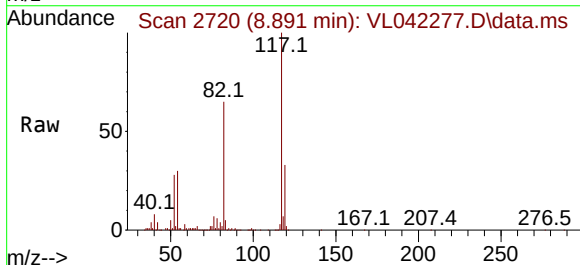
Manual Integrations
APPROVED

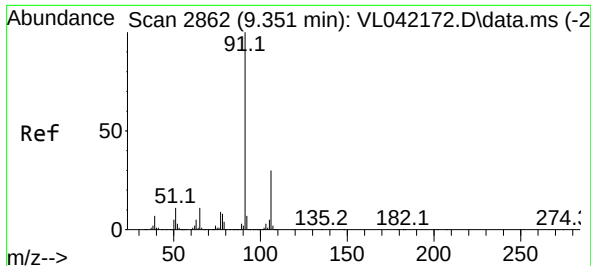
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2720
Delta R.T. 0.016 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Tgt Ion:117 Resp: 366383
Ion Ratio Lower Upper
117 100
82 64.9 55.8 83.6
119 31.8 25.5 38.3





#58

Ethyl Benzene

Concen: 0.473 ppbv

RT: 9.364 min Scan# 21

Delta R.T. 0.013 min

Lab File: VL042277.D

Acq: 08 Apr 2025 23:44

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-2-04012025

Tgt Ion: 91 Resp: 3079

Ion Ratio Lower Upper

91 100

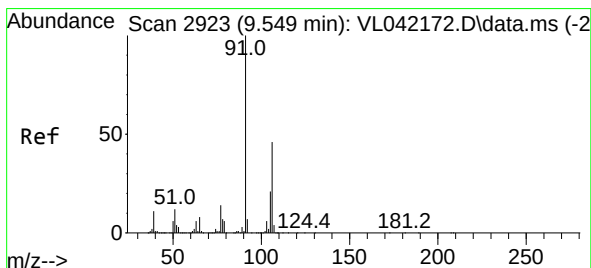
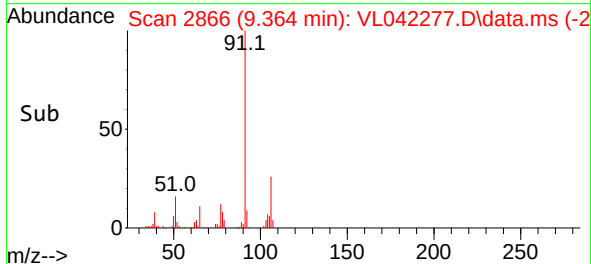
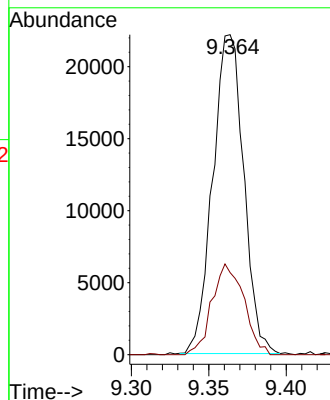
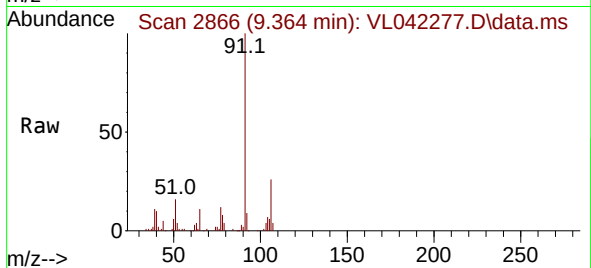
106 25.7 24.2 36.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025

Supervised By :Semsettin Yesilyurt 04/10/2025



#59

m/p-Xylene

Concen: 1.835 ppbv

RT: 9.542 min Scan# 2921

Delta R.T. -0.007 min

Lab File: VL042277.D

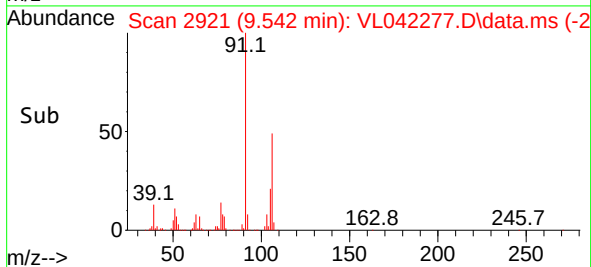
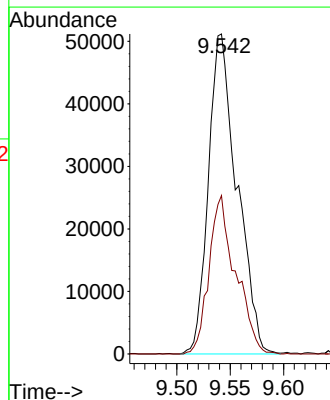
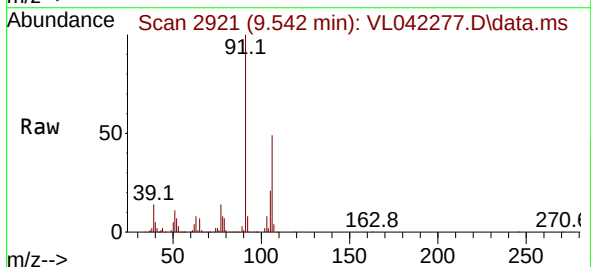
Acq: 08 Apr 2025 23:44

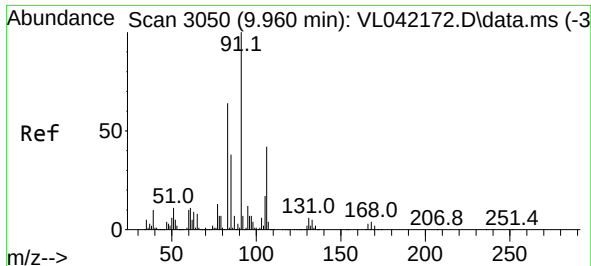
Tgt Ion: 91 Resp: 95378

Ion Ratio Lower Upper

91 100

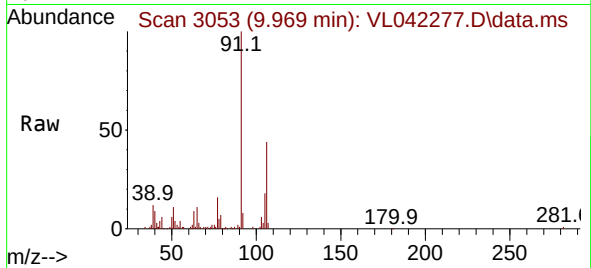
106 46.1 36.4 54.6





#60
o-Xylene
Concen: 0.428 ppbv
RT: 9.969 min Scan# 3050
Delta R.T. 0.009 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

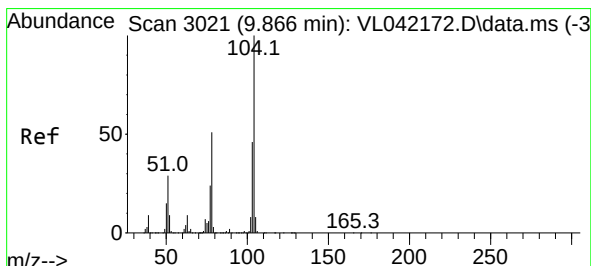
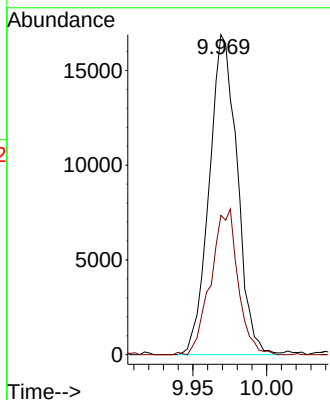
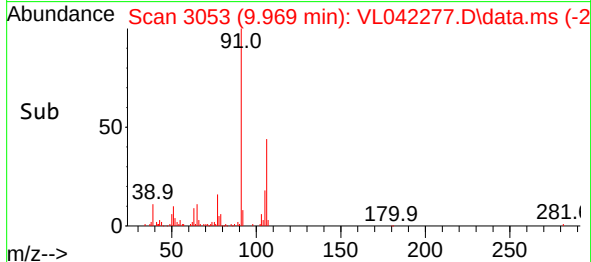
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025



Tgt Ion: 91 Resp: 2227
Ion Ratio Lower Upper
91 100
106 44.2 20.8 62.5

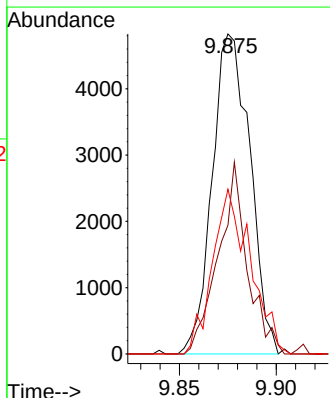
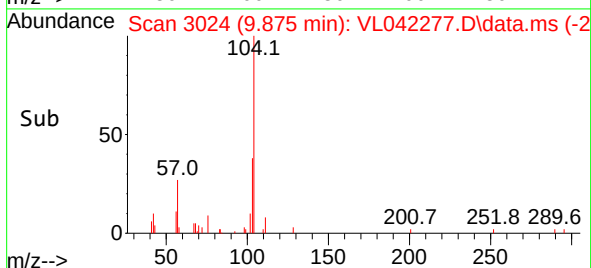
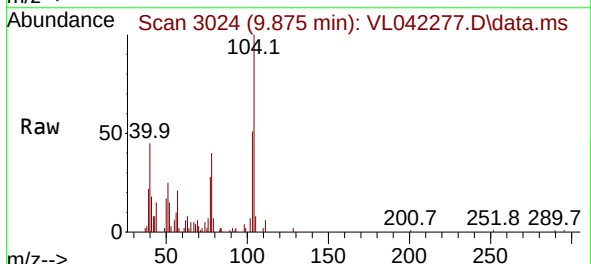
Manual Integrations
APPROVED

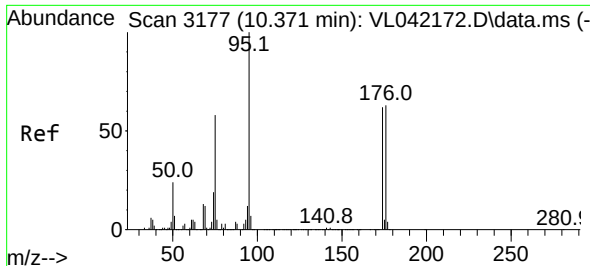
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#61
Styrene
Concen: 0.254 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. 0.009 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

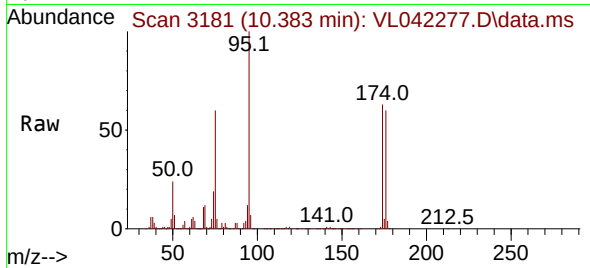
Tgt Ion:104 Resp: 6538
Ion Ratio Lower Upper
104 100
78 46.9 41.8 62.6
103 51.9 37.0 55.4





#68
1-Bromo-4-Fluorobenzene
Concen: 9.629 ppbv
RT: 10.383 min Scan# 3177
Delta R.T. 0.013 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

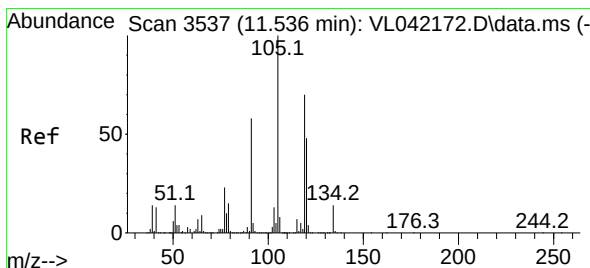
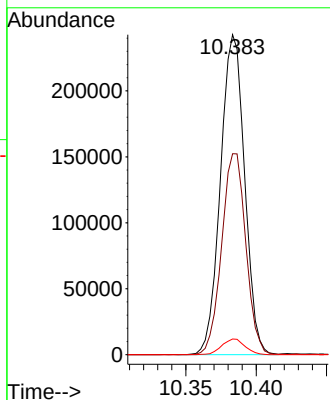
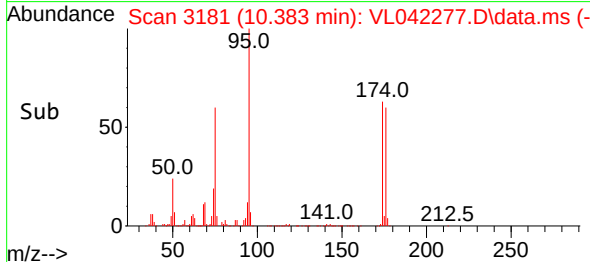
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025



Tgt Ion: 95 Resp: 28970
Ion Ratio Lower Upper
95 100
174 63.0 50.6 76.0
175 4.7 3.8 5.6

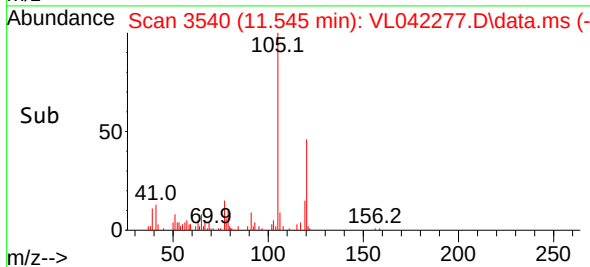
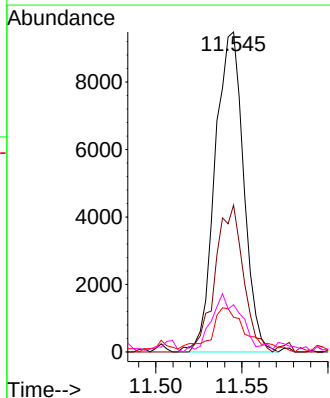
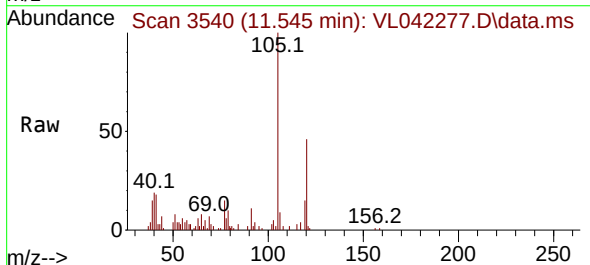
Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.167 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. 0.009 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Tgt Ion:105 Resp: 10923
Ion Ratio Lower Upper
105 100
120 45.9 38.6 58.0
91 9.9 46.2 69.2#
77 14.0 18.6 27.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042277.D
 Acq On : 08 Apr 2025 23:44
 Operator : SY/MD
 Sample : Q1728-01 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B14-2-04012025

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: VL042277.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	421	rBV	4092978	4481916	100.00%	32.385%
2	1.560	451	455	459	rBV2	118010	66513	1.48%	0.481%
3	1.839	536	541	552	rBV	1450572	944257	21.07%	6.823%
4	1.890	552	557	570	rVB	2472701	1774519	39.59%	12.822%
5	2.065	607	611	620	rVB	118214	91072	2.03%	0.658%
6	2.793	828	836	843	rBV	575759	606914	13.54%	4.385%
7	2.835	843	849	863	rVB4	64885	90726	2.02%	0.656%
8	3.968	1185	1199	1213	rBV	720897	1107989	24.72%	8.006%
9	6.949	2107	2120	2130	rBV3	46750	96976	2.16%	0.701%
10	8.891	2705	2720	2730	rBV	902653	1301589	29.04%	9.405%
11	8.949	2730	2738	2747	rVB3	54898	88346	1.97%	0.638%
12	9.160	2792	2803	2814	rBV3	102374	157447	3.51%	1.138%
13	9.228	2814	2824	2835	rVB3	55477	82802	1.85%	0.598%
14	9.364	2855	2866	2880	rBV	57645	88218	1.97%	0.637%
15	9.538	2911	2920	2938	rVB2	157178	300800	6.71%	2.173%
16	9.720	2967	2976	2987	rBV3	30796	48514	1.08%	0.351%
17	9.969	3045	3053	3071	rVB2	51128	87681	1.96%	0.634%
18	10.383	3162	3181	3191	rBV	1155547	1401209	31.26%	10.125%
19	10.866	3322	3330	3337	rBV4	35615	44898	1.00%	0.324%
20	11.545	3530	3540	3550	rVB4	29244	49092	1.10%	0.355%
21	11.781	3597	3613	3621	rVB4	100572	169382	3.78%	1.224%
22	12.047	3689	3695	3702	rVB4	51594	56839	1.27%	0.411%
23	12.235	3744	3753	3757	rBV	151512	177857	3.97%	1.285%
24	12.257	3757	3760	3771	rVB	144128	158930	3.55%	1.148%
25	12.448	3811	3819	3833	rVB3	102641	146682	3.27%	1.060%
26	12.516	3833	3840	3847	rBV3	44357	53177	1.19%	0.384%
27	12.655	3874	3883	3887	rBV5	54487	69309	1.55%	0.501%
28	12.833	3929	3938	3945	rBV3	36996	46037	1.03%	0.333%
29	12.882	3945	3953	3960	rVB2	41278	49904	1.11%	0.361%

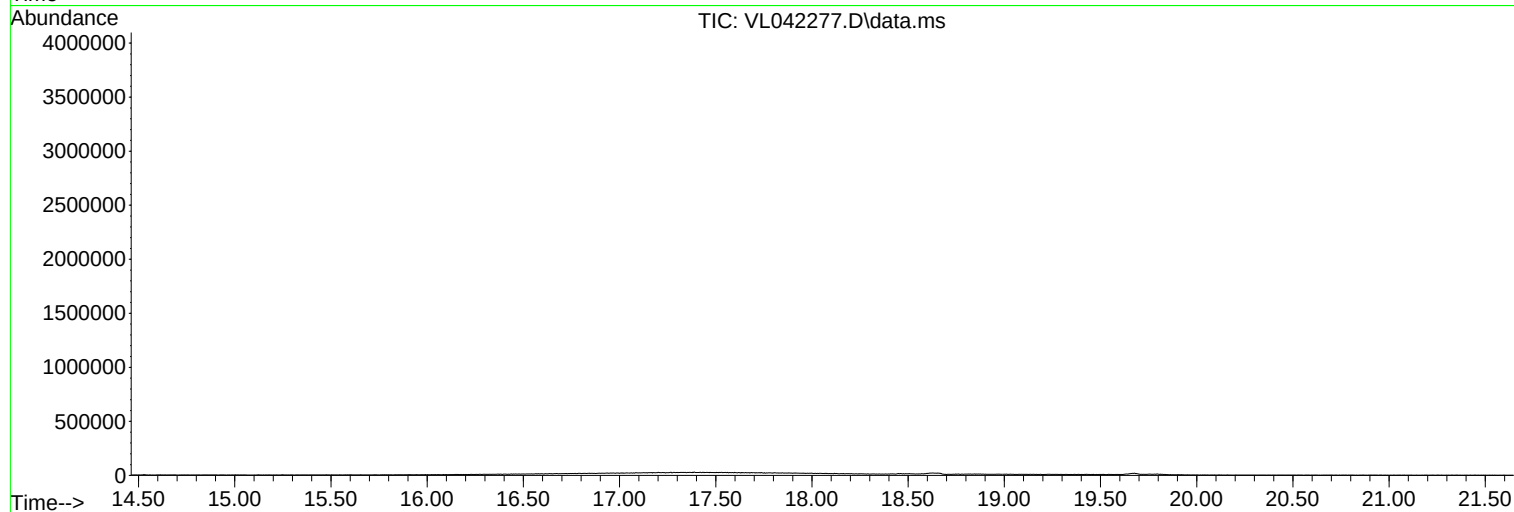
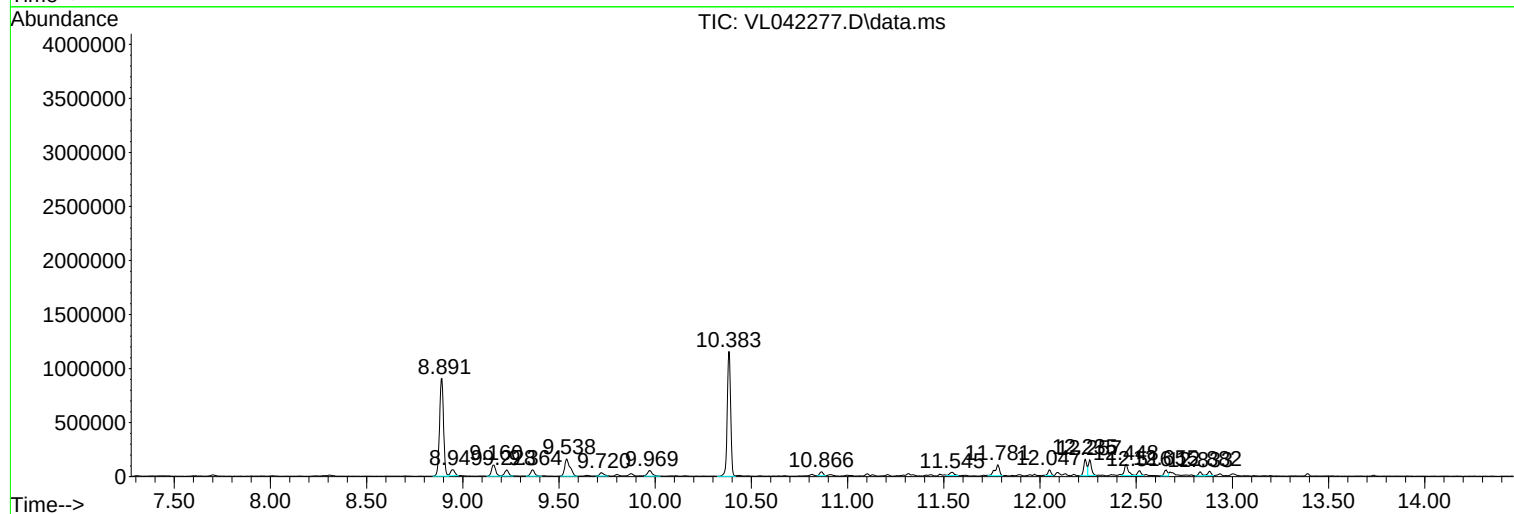
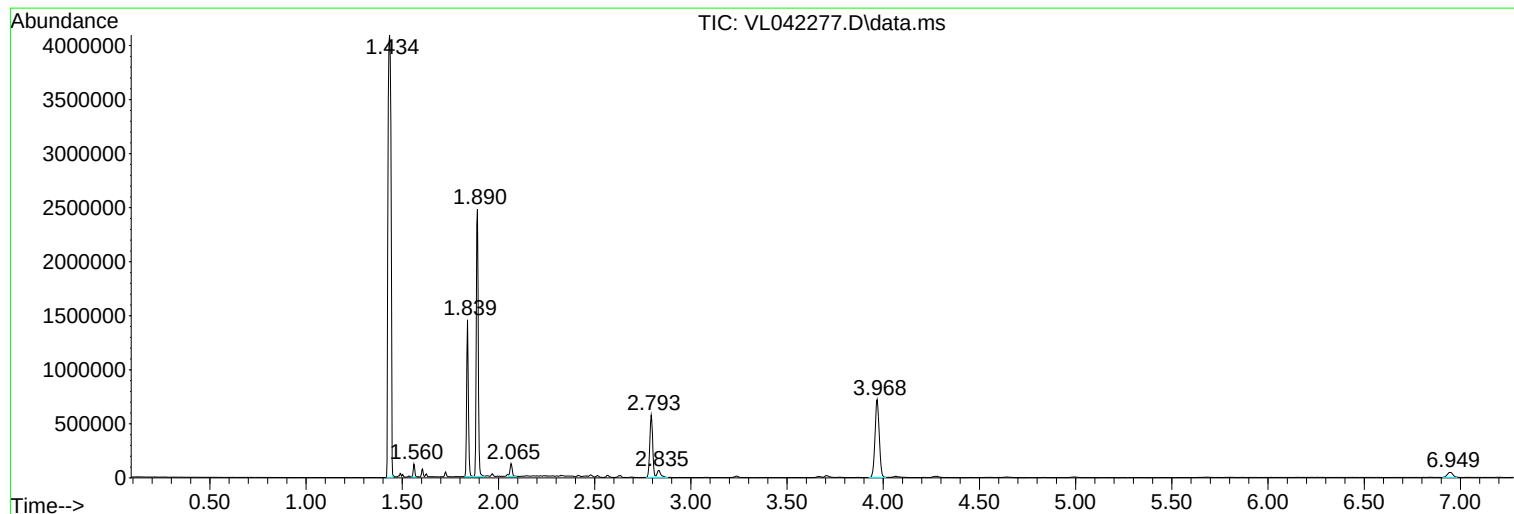
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042277.D
Acq On : 08 Apr 2025 23:44
Operator : SY/MD
Sample : Q1728-01 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025

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 : VL042277.D
Acq On : 08 Apr 2025 23:44
Operator : SY/MD
Sample : Q1728-01 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025

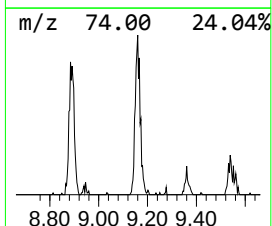
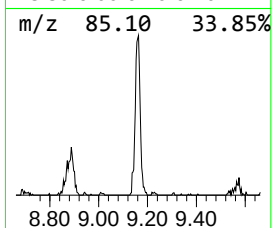
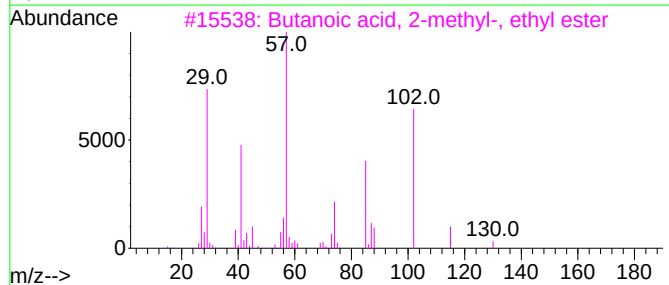
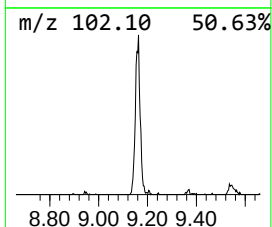
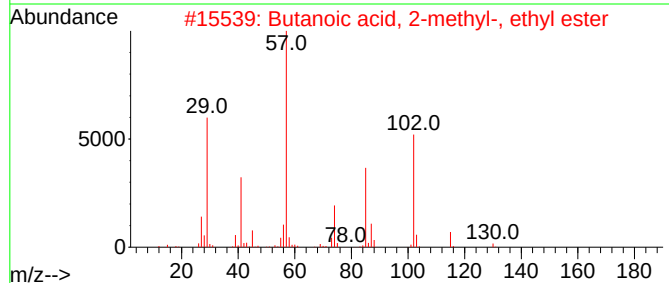
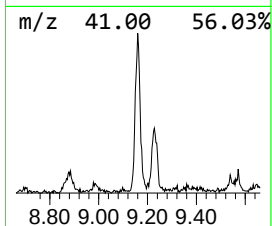
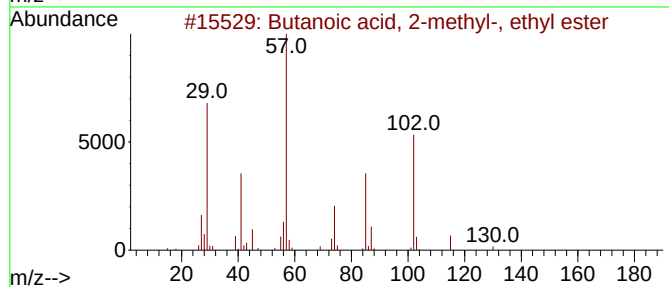
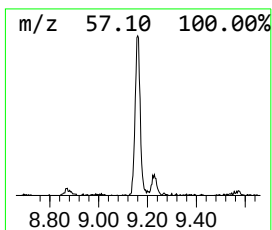
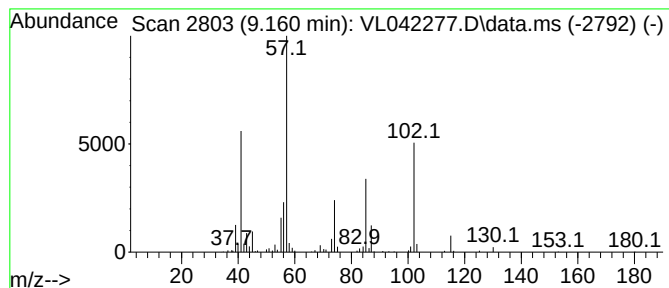
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 1 Butanoic acid, 2-methyl-, e... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.160	1.21 ppbv	157447	Chlorobenzene-d5	8.891

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	90
2			Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	74
3			Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	58
4			Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	53
5			Butanoic acid, 2-methyl-, ethyl ...	130	C7H14O2	007452-79-1	50



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042277.D
Acq On : 08 Apr 2025 23:44
Operator : SY/MD
Sample : Q1728-01 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

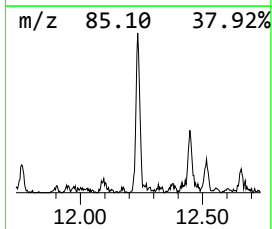
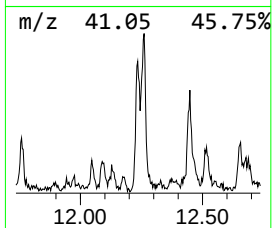
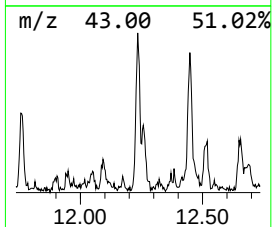
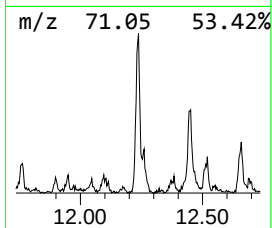
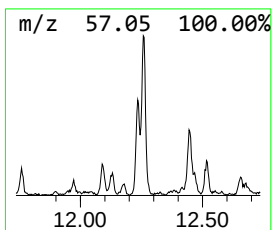
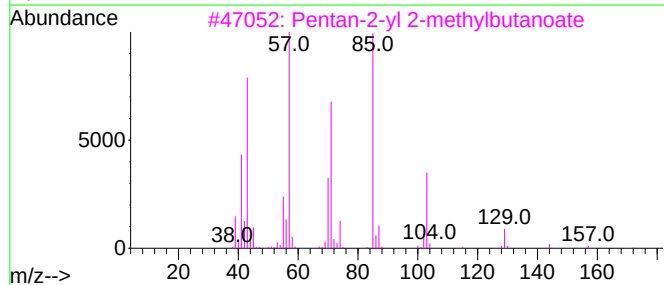
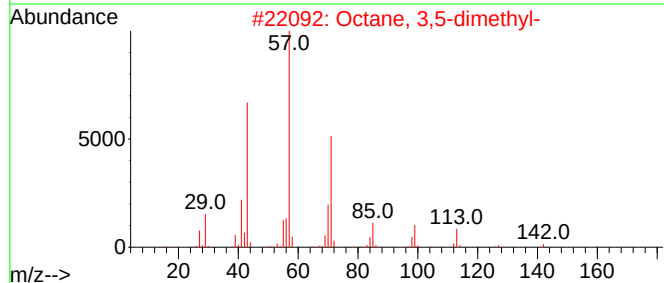
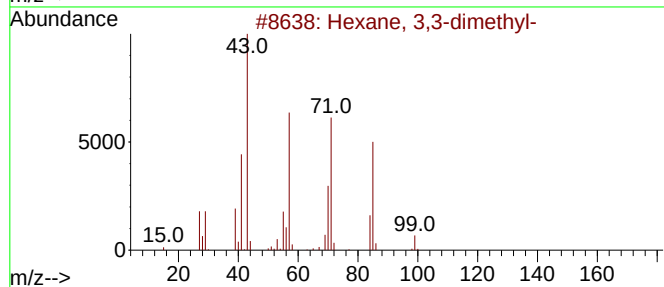
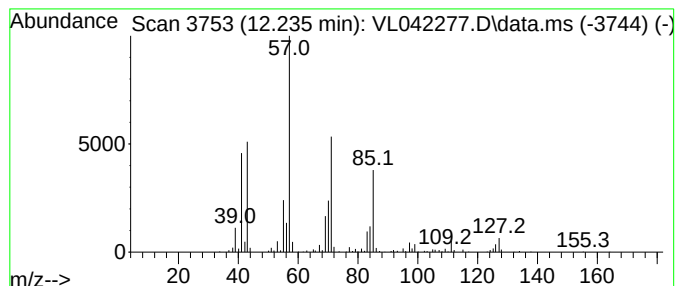
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025

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 3 Hexane, 3,3-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD			R.T.
12.235	1.37 ppbv	177857	Chlorobenzene-d5			8.891
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	Hexane, 3,3-dimethyl-		114	C8H18	000563-16-6	59
2	Octane, 3,5-dimethyl-		142	C10H22	015869-93-9	53
3	Pentan-2-yl 2-methylbutanoate		172	C10H20O2	1000372-71-7	53
4	Dodecane, 4-methyl-		184	C13H28	006117-97-1	53
5	Hexane, 3,3-dimethyl-		114	C8H18	000563-16-6	50



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042277.D
Acq On : 08 Apr 2025 23:44
Operator : SY/MD
Sample : Q1728-01 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025

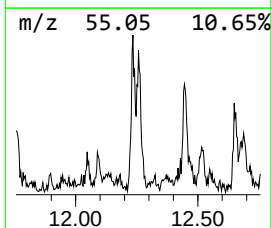
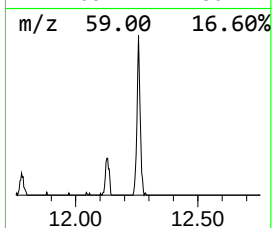
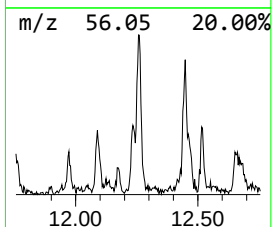
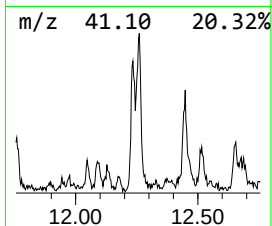
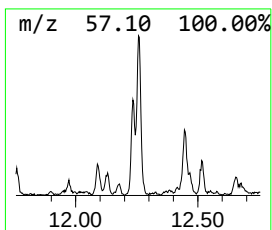
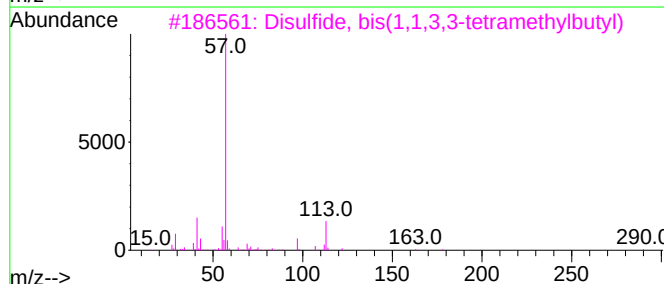
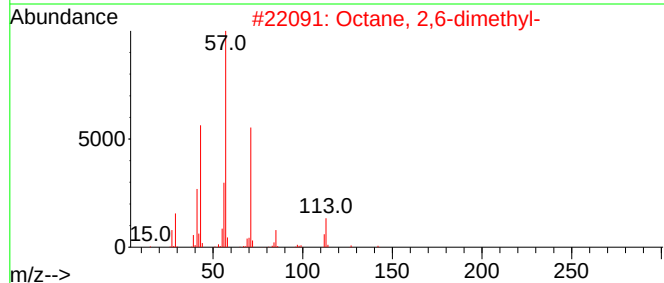
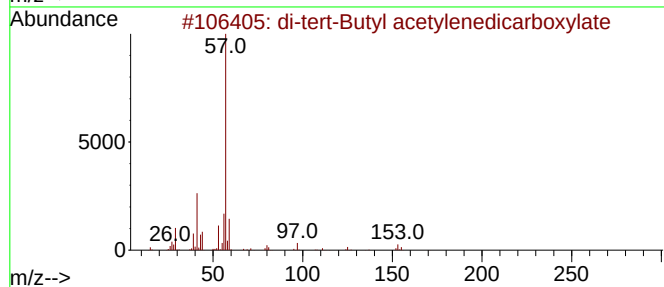
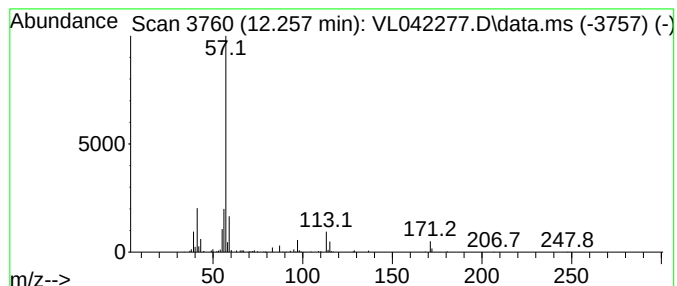
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 4 unknown12.257 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.257	1.22 ppbv	158930	Chlorobenzene-d5	8.891

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			di-tert-Butyl acetylenedicarboxy...	226	C12H18O4	066086-33-7	40
2			Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	32
3			Disulfide, bis(1,1,3,3-tetrameth...	290	C16H34S2	029956-99-8	32
4			sec-Butyl isobutyl carbonate	174	C9H18O3	1000372-77-3	28
5			Glycerol, 2-tert-butyl ether	148	C7H16O3	1000381-76-3	28



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042277.D
Acq On : 08 Apr 2025 23:44
Operator : SY/MD
Sample : Q1728-01 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025

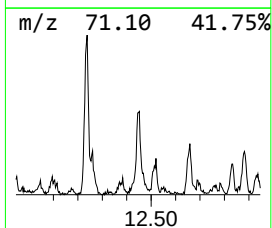
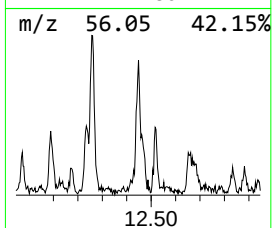
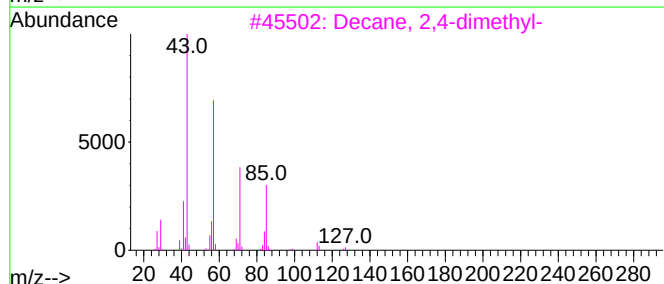
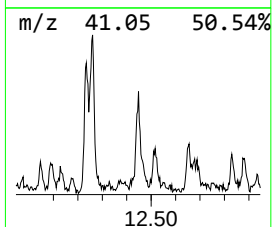
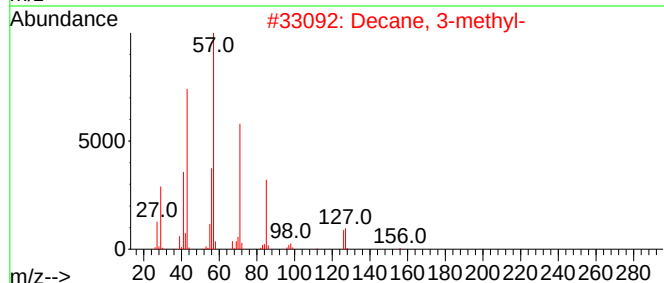
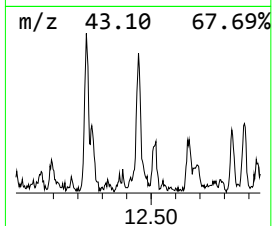
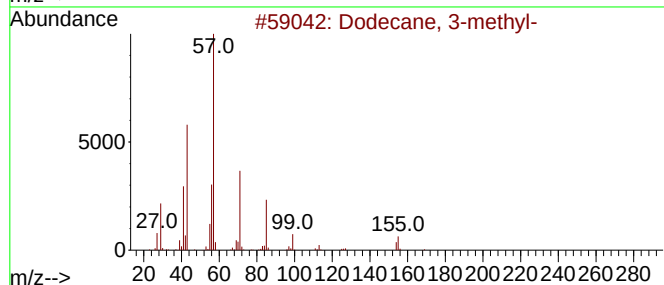
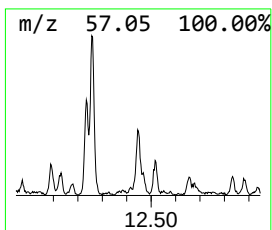
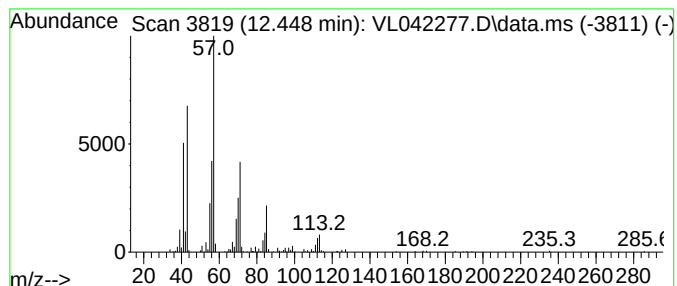
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 5 Dodecane, 3-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.448	1.13 ppbv	146682	Chlorobenzene-d5	8.891

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Dodecane, 3-methyl-	184	C13H28	017312-57-1	59
2			Decane, 3-methyl-	156	C11H24	013151-34-3	50
3			Decane, 2,4-dimethyl-	170	C12H26	002801-84-5	50
4			Decane, 2,6,7-trimethyl-	184	C13H28	062108-25-2	50
5			Decane, 3,6-dimethyl-	170	C12H26	017312-53-7	49



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042277.D
Acq On : 08 Apr 2025 23:44
Operator : SY/MD
Sample : Q1728-01 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025

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
Butanoic acid, ...	9.160	1.2	ppbv	157447	3	8.891	1301590	10.0
Hexane, 3,3-dim...	12.235	1.4	ppbv	177857	3	8.891	1301590	10.0
unknown12.257	12.257	1.2	ppbv	158930	3	8.891	1301590	10.0
Dodecane, 3-met...	12.448	1.1	ppbv	146682	3	8.891	1301590	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-B14-2-04012025DL	SDG No.:	Q1728
Lab Sample ID:	Q1728-01DL	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
VL042267.D	10		04/08/25 16:58	VL040825

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	63.1	150	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	4.30	14.9	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	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	1.60	6.03	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-B14-2-04012025DL	SDG No.:	Q1728
Lab Sample ID:	Q1728-01DL	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
VL042267.D	10		04/08/25 16:58	VL040825

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	JD	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	162000		2.8			
540-36-3	1,4-Difluorobenzene	443000		3.978			
3114-55-4	Chlorobenzene-d5	375000		8.901			

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-B14-2-04012025DL	SDG No.:	Q1728
Lab Sample ID:	Q1728-01DL	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
VL042267.D	10		04/08/25 16:58	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 : VL042267.D
 Acq On : 08 Apr 2025 16:58
 Operator : SY/MD
 Sample : Q1728-01DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B14-2-04012025DL

Quant Time: Apr 09 01:57:53 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

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
 Supervised By :Semsettin Yesilyurt 04/10/2025

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

Internal Standards						
1) Bromochloromethane	2.800	49	162199	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.978	114	442538	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.901	117	374779	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	293027	9.521	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.200%
Target Compounds						
					Qvalue	
9) Propene	1.489	41	1164m	0.104	ppbv	
13) Ethanol	1.729	45	3590m	3.387	ppbv	
15) Acetone	1.842	43	143227	6.314	ppbv	95
19) Isopropyl Alcohol	1.894	45	260805	20.377	ppbv #	32
20) Methylene Chloride	2.072	84	3668	0.434	ppbv #	94
26) Hexane	2.839	57	2560	0.113	ppbv #	36
34) 2-Butanone	2.573	43	3451	0.108	ppbv	99
53) Toluene	6.965	91	8374m	0.161	ppbv	
59) m/p-Xylene	9.548	91	16114	0.303	ppbv	89

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

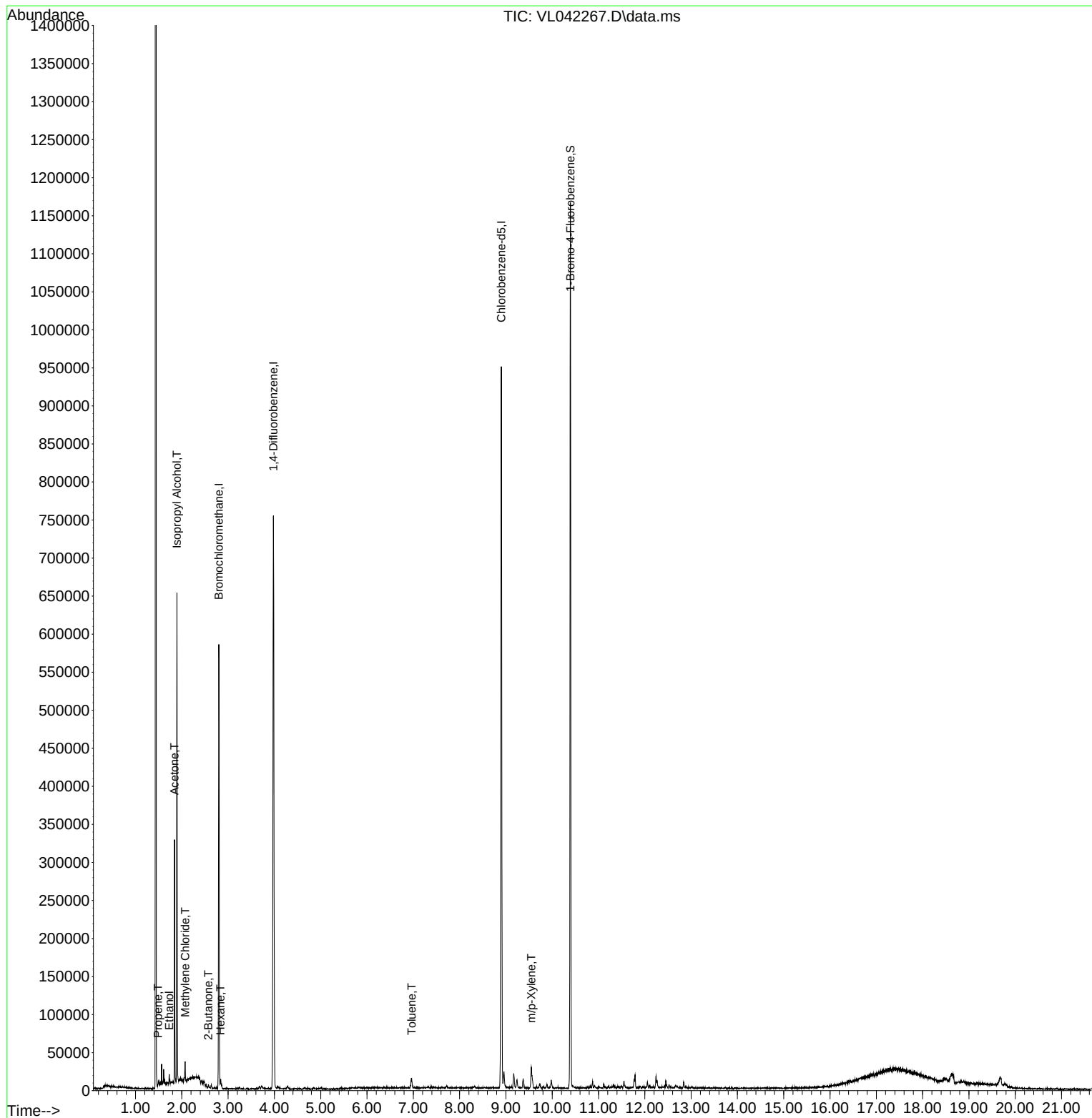
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Operator : SY/MD
Sample : Q1728-01DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

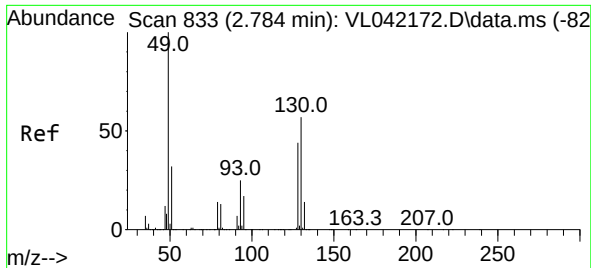
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025DL

Quant Time: Apr 09 01:57:53 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

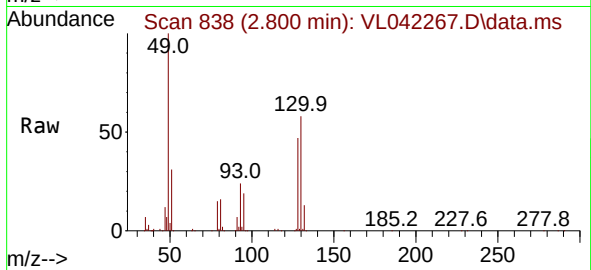
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 833
Delta R.T. 0.016 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

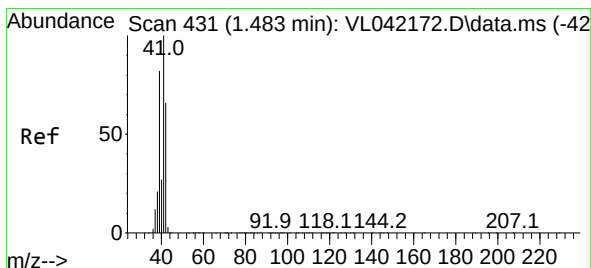
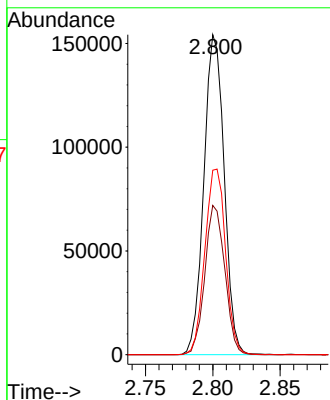
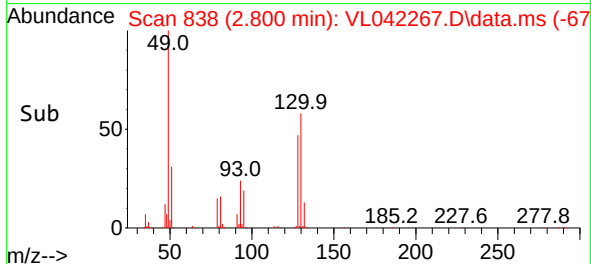
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025DL



Tgt Ion: 49 Resp: 162199
Ion Ratio Lower Upper
49 100
128 45.9 22.9 68.5
130 59.1 28.8 86.4

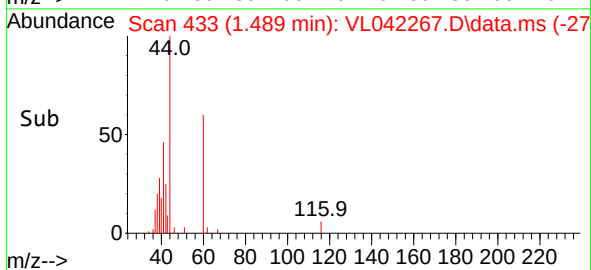
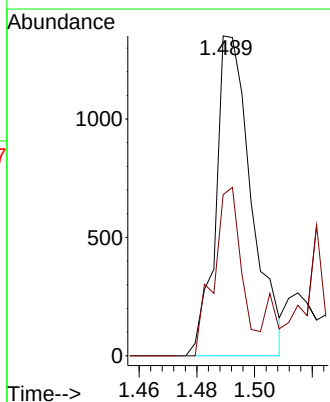
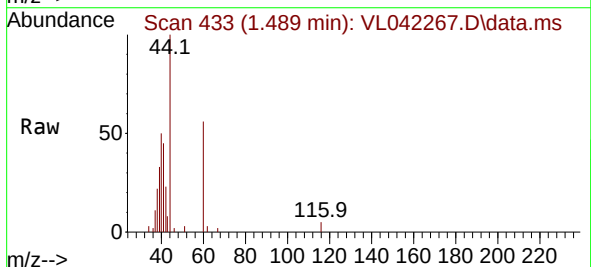
Manual Integrations
APPROVED

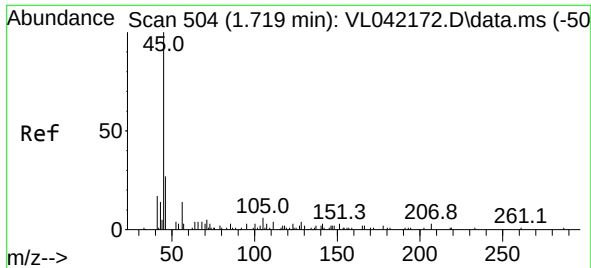
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#9
Propene
Concen: 0.104 ppbv m
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

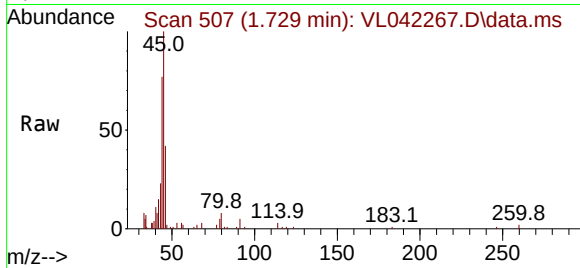
Tgt Ion: 41 Resp: 1164
Ion Ratio Lower Upper
41 100
42 1218.6 55.4 83.2#





#13
Ethanol
Concen: 3.387 ppbv m
RT: 1.729 min Scan# 504
Delta R.T. 0.010 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

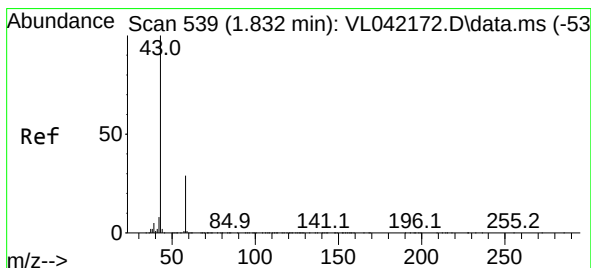
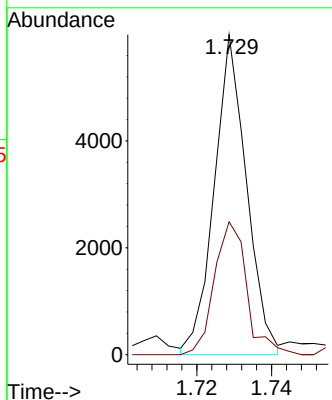
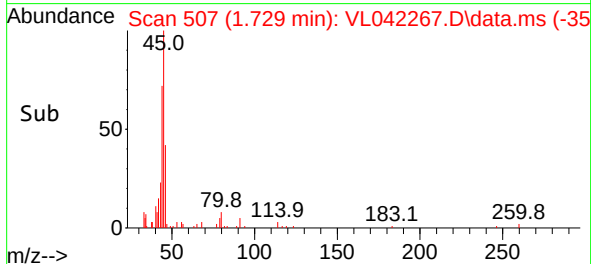
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025DL



Tgt Ion: 45 Resp: 3590
Ion Ratio Lower Upper
45 100
46 178.5 20.2 80.8

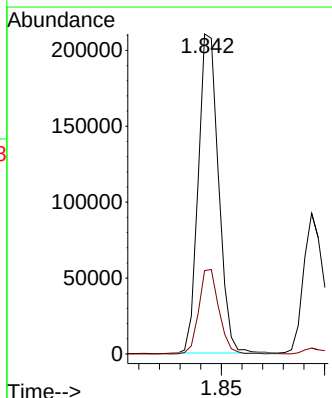
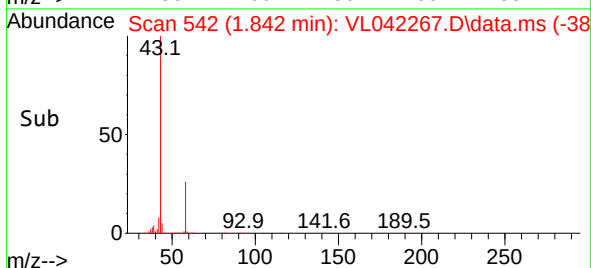
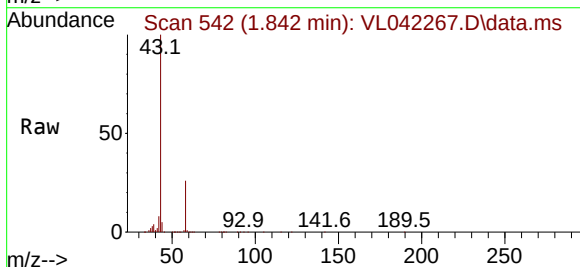
Manual Integrations
APPROVED

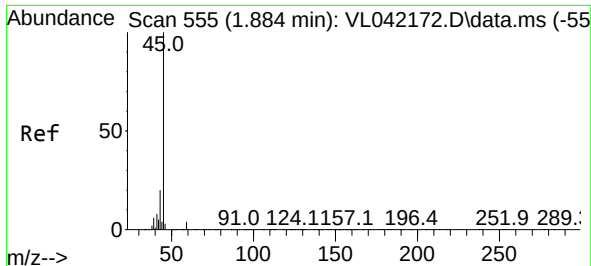
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#15
Acetone
Concen: 6.314 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.010 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

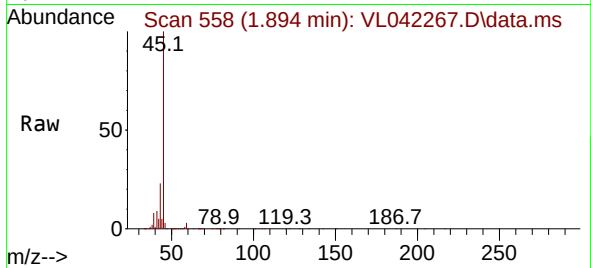
Tgt Ion: 43 Resp: 143227
Ion Ratio Lower Upper
43 100
58 26.5 23.2 34.8





#19
Isopropyl Alcohol
Concen: 20.377 ppbv
RT: 1.894 min Scan# 510
Delta R.T. 0.010 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

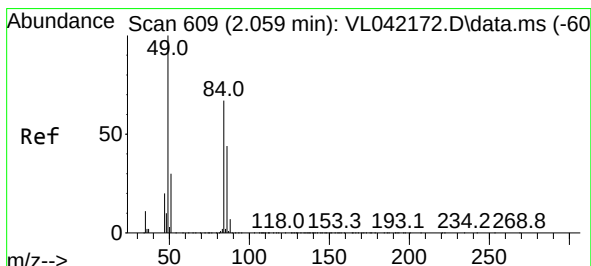
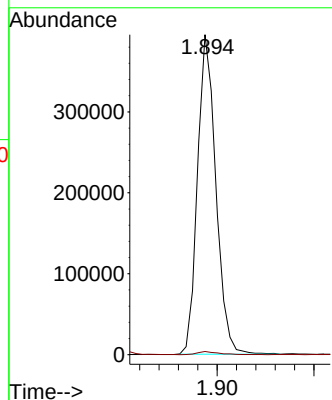
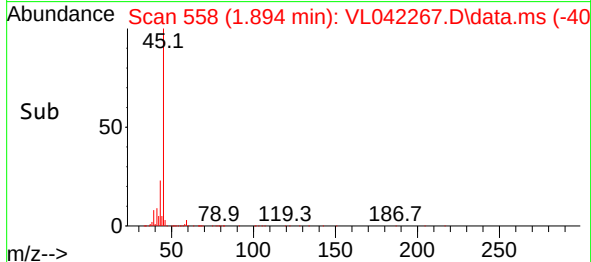
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025DL



Tgt Ion: 45 Resp: 26080
Ion Ratio Lower Upper
45 100
58 1.2 36.9 55.3

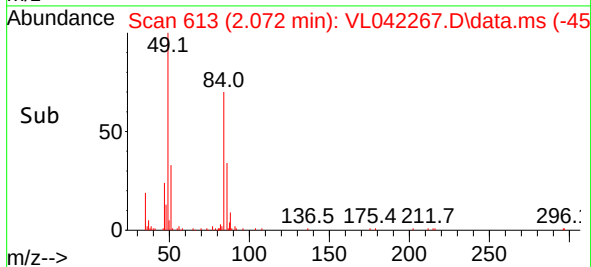
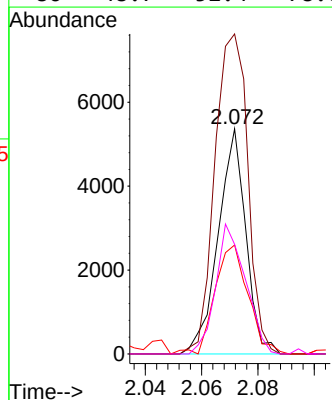
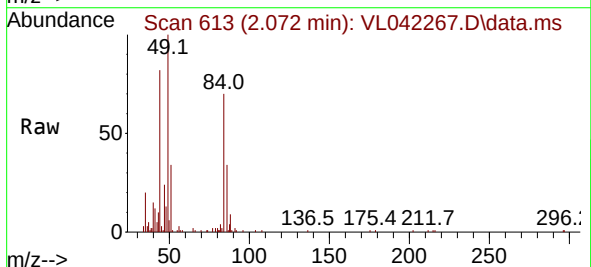
Manual Integrations
APPROVED

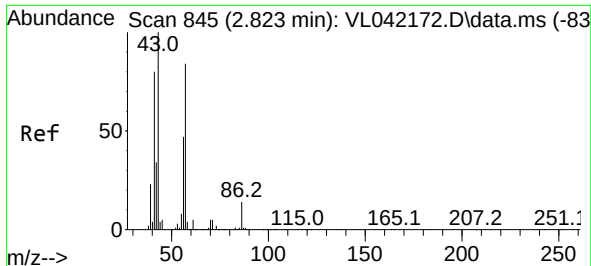
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#20
Methylene Chloride
Concen: 0.434 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

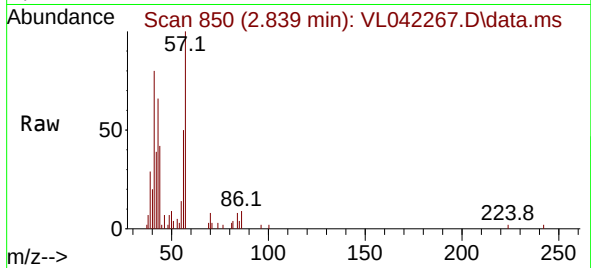
Tgt Ion: 84 Resp: 3668
Ion Ratio Lower Upper
84 100
49 150.8 120.2 180.4
51 47.2 37.4 56.0
86 48.7 52.4 78.6





#26
Hexane
Concen: 0.113 ppbv
RT: 2.839 min Scan# 845
Delta R.T. 0.016 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

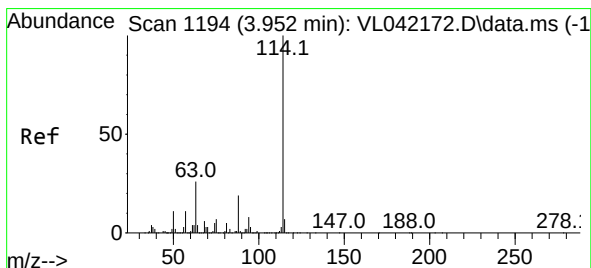
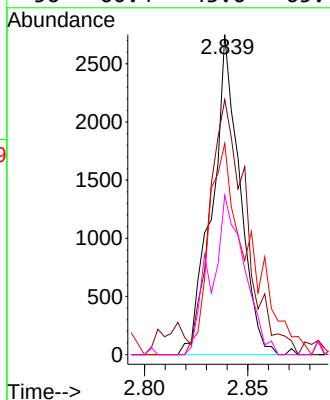
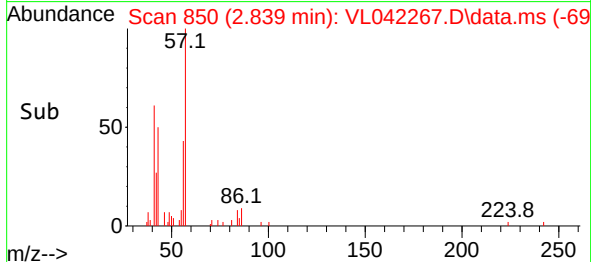
Instrument : MSVOA_L
ClientSampleId : SSSG-B14-2-04012025DL



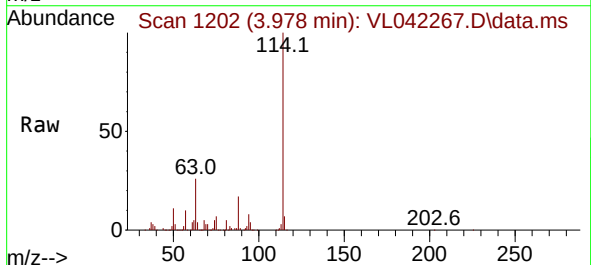
Tgt Ion: 57 Resp: 2560
Ion Ratio Lower Upper
57 100
41 116.8 76.6 114.8
43 97.3 207.8 311.8
56 60.4 43.6 65.4

Manual Integrations
APPROVED

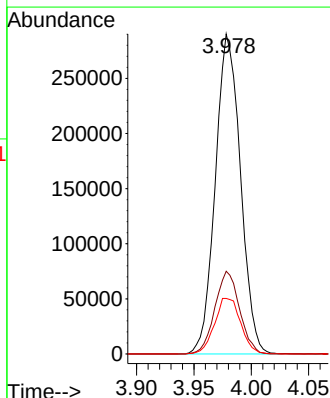
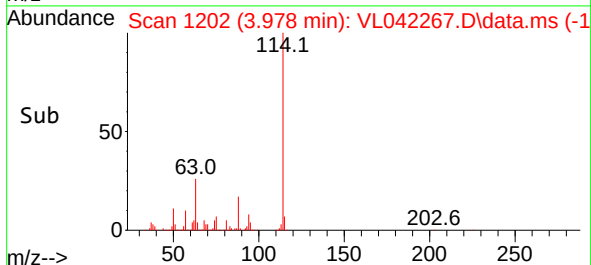
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

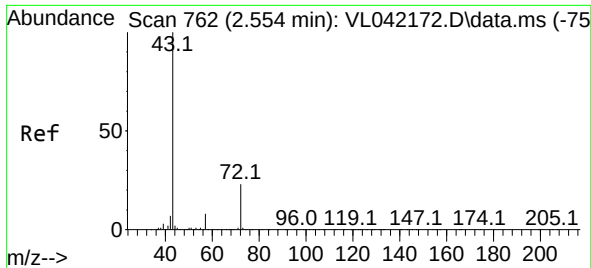


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 1202
Delta R.T. 0.026 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58



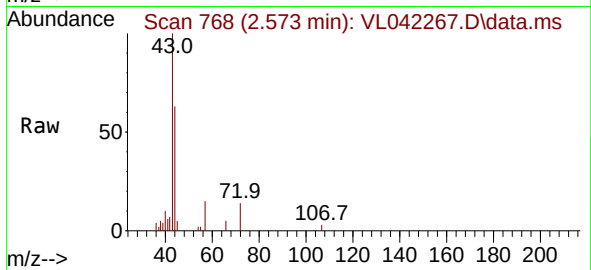
Tgt Ion:114 Resp: 442538
Ion Ratio Lower Upper
114 100
63 25.4 20.7 31.1
88 18.1 15.0 22.4





#34
2-Butanone
Concen: 0.108 ppbv
RT: 2.573 min Scan# 70
Delta R.T. 0.019 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

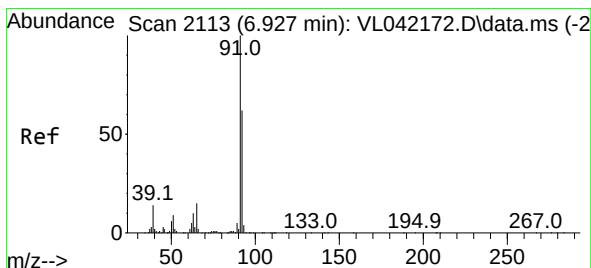
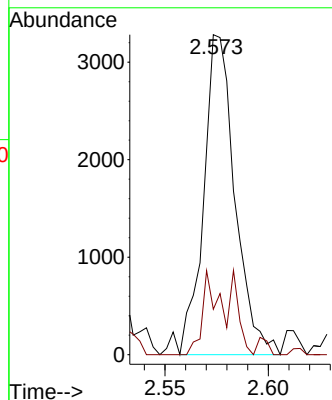
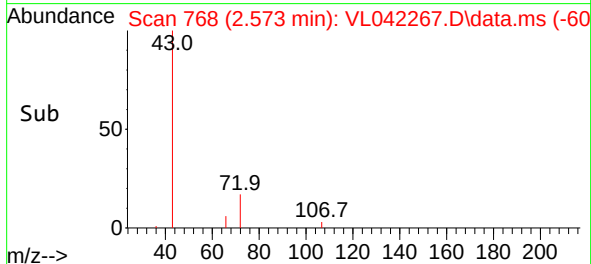
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025DL



Tgt Ion: 43 Resp: 345
Ion Ratio Lower Upper
43 100
72 23.2 18.2 27.2

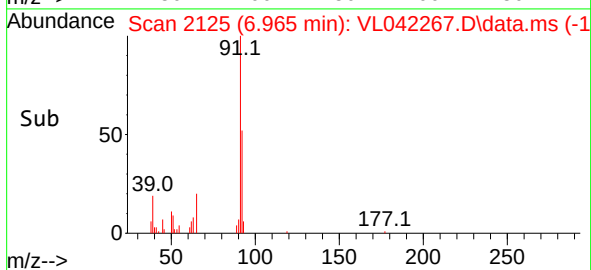
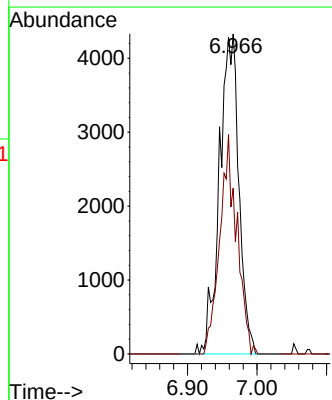
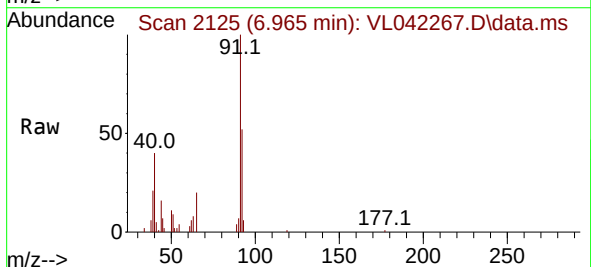
Manual Integrations
APPROVED

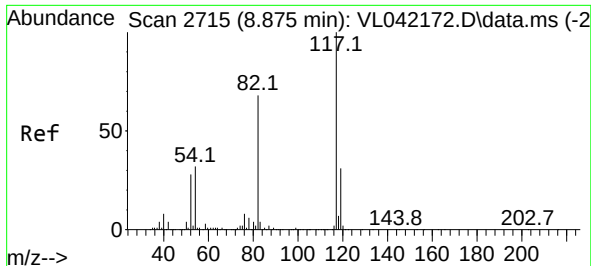
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#53
Toluene
Concen: 0.161 ppbv m
RT: 6.965 min Scan# 2125
Delta R.T. 0.039 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

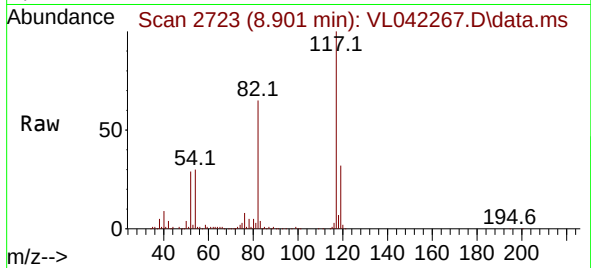
Tgt Ion: 91 Resp: 8374
Ion Ratio Lower Upper
91 100
92 0.0 48.4 72.6#





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 2715
Delta R.T. 0.026 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

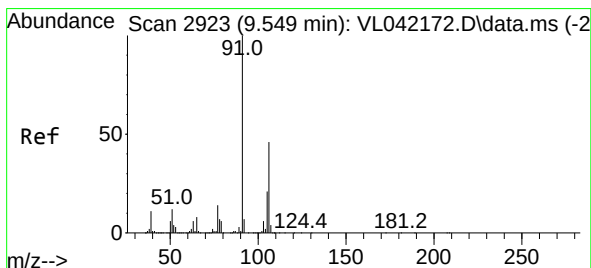
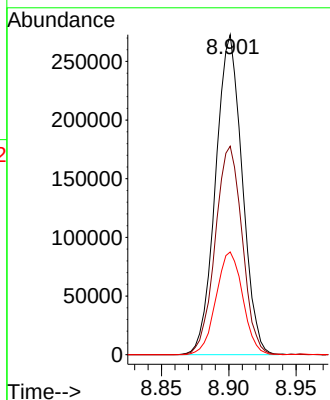
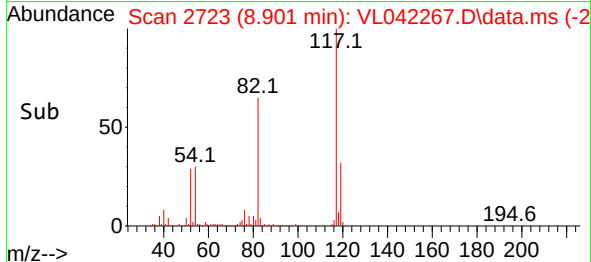
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025DL



Tgt Ion: 117 Resp: 374779
Ion Ratio Lower Upper
117 100
82 66.2 55.8 83.6
119 32.3 25.5 38.3

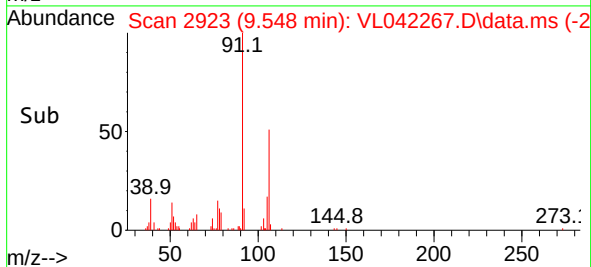
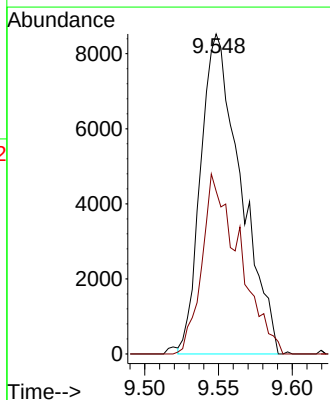
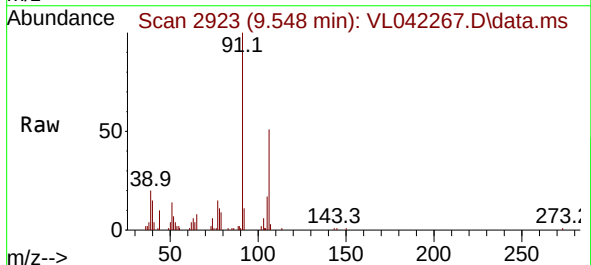
Manual Integrations
APPROVED

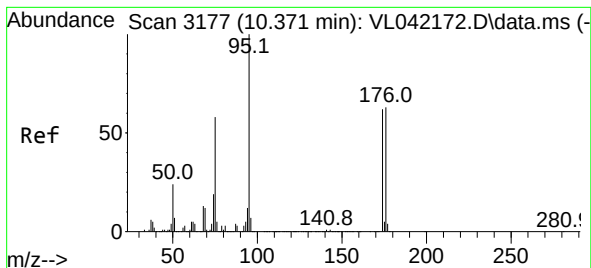
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#59
m/p-Xylene
Concen: 0.303 ppbv
RT: 9.548 min Scan# 2923
Delta R.T. -0.000 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

Tgt Ion: 91 Resp: 16114
Ion Ratio Lower Upper
91 100
106 52.6 36.4 54.6





#68

1-Bromo-4-Fluorobenzene

Concen: 9.521 ppbv

RT: 10.393 min Scan# 31

Delta R.T. 0.022 min

Lab File: VL042267.D

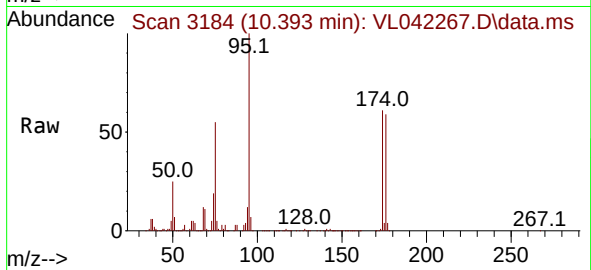
Acq: 08 Apr 2025 16:58

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-2-04012025DL



Tgt Ion: 95 Resp: 29302

Ion Ratio Lower Upper

95 100

174 60.8 50.6 76.0

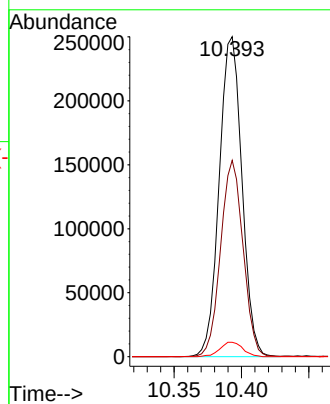
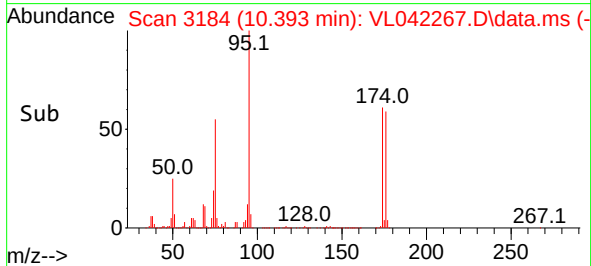
175 4.6 3.8 5.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025

Supervised By :Semsettin Yesilyurt 04/10/2025



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:	SSSG-B1-5-04012025	SDG No.:	Q1728
Lab Sample ID:	Q1728-02	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
VL042278.D	2		04/09/25 00:15	VL040825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.45	2.23	J	2.08	4.94	ug/m3
74-87-3	Chloromethane	0.28	0.58	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	9.40	22.3		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	1.50	5.21		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	0.35	1.03	J	0.71	2.95	ug/m3
56-23-5	Carbon Tetrachloride	0.090	0.57		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	0.17	0.83	U	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	0.21	0.67	J	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	0.070	0.38		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	0.98	3.69	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-B1-5-04012025	SDG No.:	Q1728
Lab Sample ID:	Q1728-02	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
VL042278.D	2		04/09/25 00:15	VL040825

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	0.030	0.20	U	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	0.24	1.04	U	1.04	4.34	ug/m3
179601-23-1	m/p-Xylene	0.73	3.17	J	1.82	8.69	ug/m3
95-47-6	o-Xylene	0.27	1.17	J	1.04	4.34	ug/m3
100-42-5	Styrene	0.30	1.28	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	0.46	1.62	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	9.50		70 (65) - 130 (135)	95%	SPK: 10

INTERNAL STANDARDS

74-97-5	Bromochloromethane	159000	2.79
540-36-3	1,4-Difluorobenzene	406000	3.962
3114-55-4	Chlorobenzene-d5	352000	8.885

TENTATIVE IDENTIFIED COMPOUNDS

75-45-6	Chlorodifluoromethane	0.26	J	1.48	ppbv
64-17-5	Ethanol	13.3	J	1.72	ppbv
017301-33-6	Undecane, 4,8-dimethyl-	2.20	J	12.2	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-B1-5-04012025	SDG No.:	Q1728
Lab Sample ID:	Q1728-02	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
VL042278.D	2		04/09/25 00:15	VL040825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
	unknown12.254	2.70		J		12.3	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 : VL042278.D
 Acq On : 09 Apr 2025 00:15
 Operator : SY/MD
 Sample : Q1728-02 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-5-04012025

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
 Supervised By :Semsettin Yesilyurt 04/10/2025

Quant Time: Apr 09 02:03:01 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

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

Internal Standards						
1) Bromochloromethane	2.790	49	158831	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	406344	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	351845	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	274750	9.509	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.100%
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.499	85	5250	0.224	ppbv	95
3) Chlorodifluoromethane	1.476	51	3081m	0.129	ppbv	
4) Chloromethane	1.531	50	1329	0.139	ppbv #	87
11) Trichlorofluoromethane	1.881	101	2481	0.109	ppbv	87
13) Ethanol	1.722	45	6890	6.637	ppbv #	27
15) Acetone	1.839	43	104371	4.699	ppbv	93
20) Methylene Chloride	2.065	84	6266	0.757	ppbv #	92
26) Hexane	2.832	57	5174	0.232	ppbv #	35
34) 2-Butanone	2.567	43	5212	0.177	ppbv	99
35) Carbon Tetrachloride	3.768	117	1451m	0.046	ppbv	
36) Benzene	3.661	78	4257	0.106	ppbv	95
38) Trichloroethene	4.564	130	573m	0.034	ppbv	
53) Toluene	6.933	91	23321	0.488	ppbv	97
58) Ethyl Benzene	9.357	91	6275	0.100	ppbv	94
59) m/p-Xylene	9.535	91	18297m	0.367	ppbv	
60) o-Xylene	9.966	91	6832	0.137	ppbv	98
61) Styrene	9.869	104	3678	0.149	ppbv	99

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

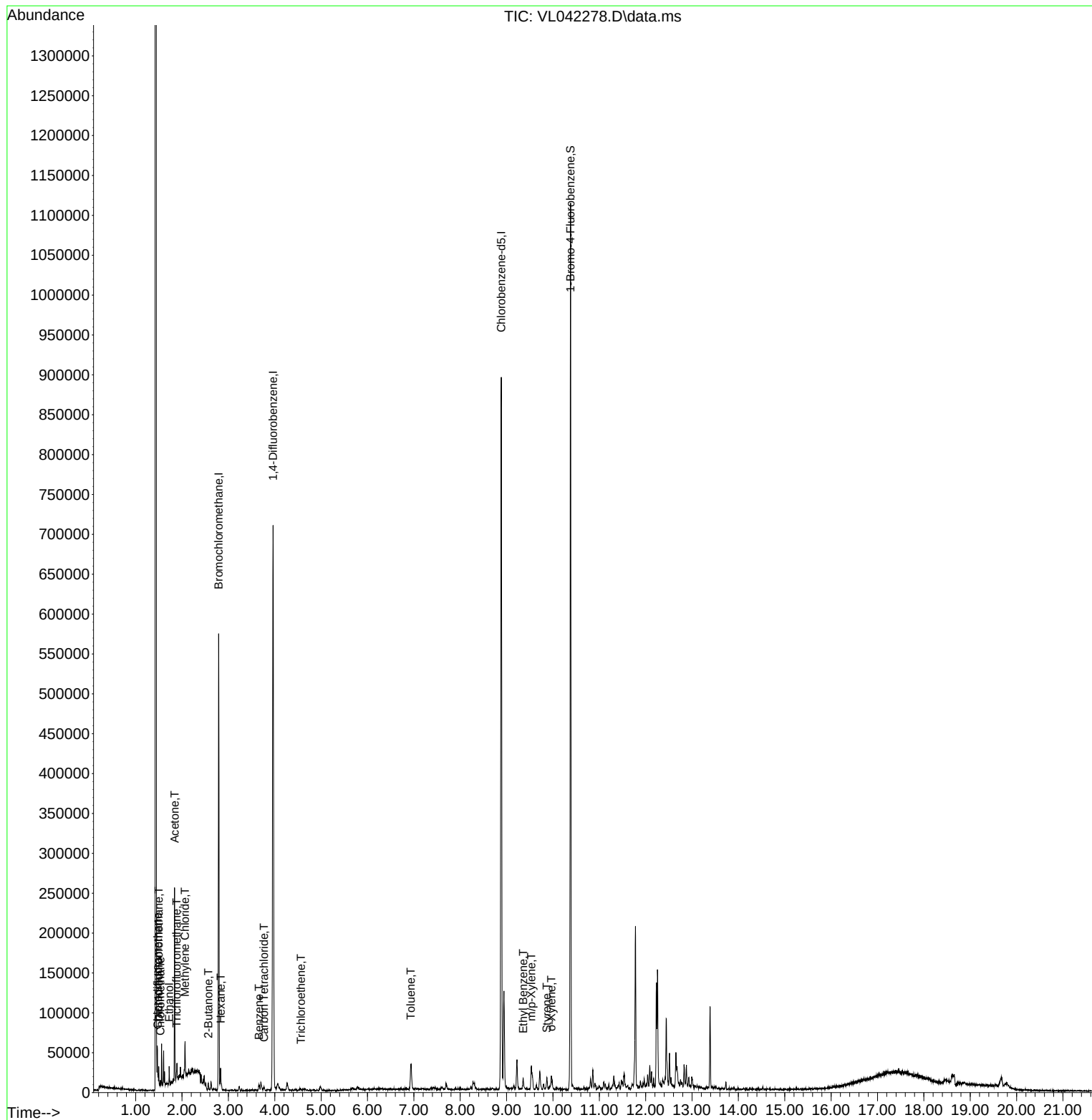
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Data File : VL042278.D
Acq On : 09 Apr 2025 00:15
Operator : SY/MD
Sample : Q1728-02 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

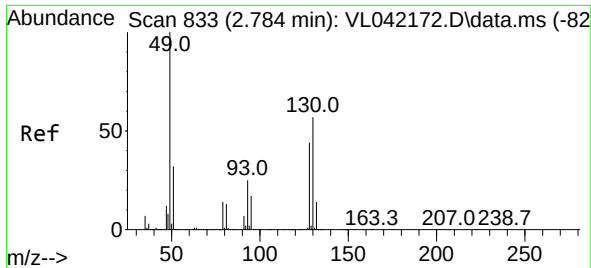
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-5-04012025

Quant Time: Apr 09 02:03:01 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

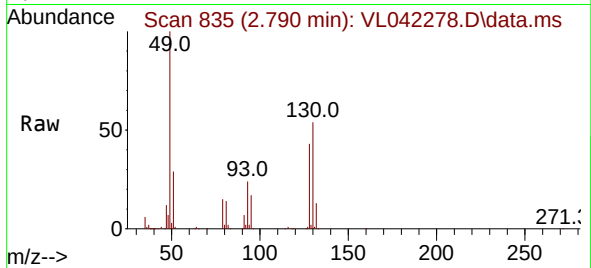
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025





#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.790 min Scan# 81
 Delta R.T. 0.006 min
 Lab File: VL042278.D
 Acq: 09 Apr 2025 00:15

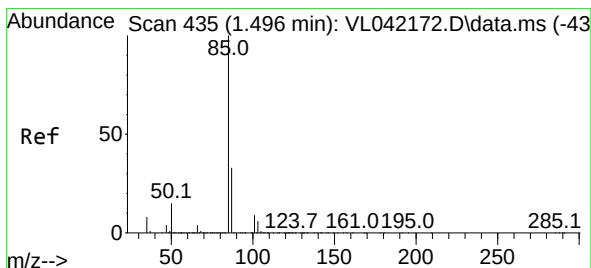
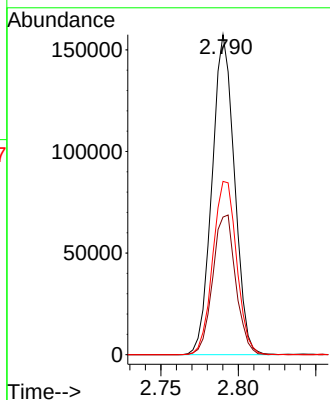
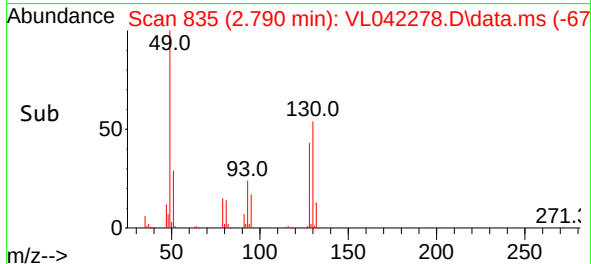
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-5-04012025



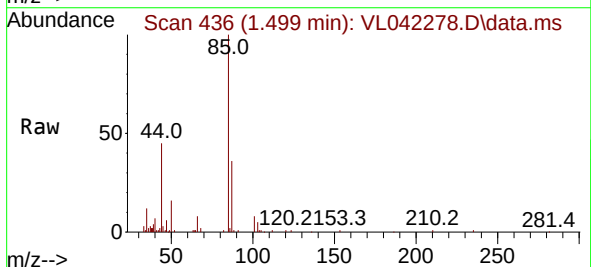
Tgt Ion: 49 Resp: 15883
 Ion Ratio Lower Upper
 49 100
 128 44.7 22.9 68.5
 130 57.5 28.8 86.4

Manual Integrations
 APPROVED

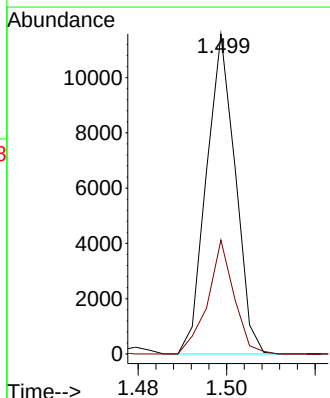
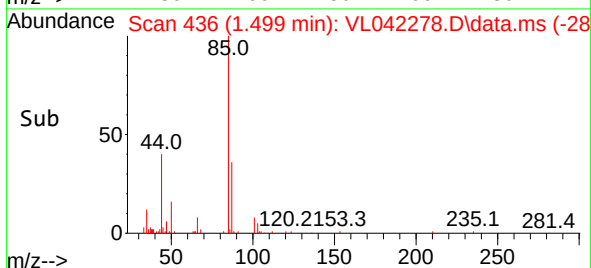
Reviewed By :Mahesh Dadoda 04/09/2025
 Supervised By :Semsettin Yesilyurt 04/10/2025

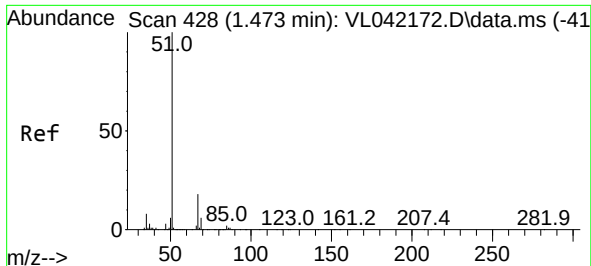


#2
 Dichlorodifluoromethane
 Concen: 0.224 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.003 min
 Lab File: VL042278.D
 Acq: 09 Apr 2025 00:15



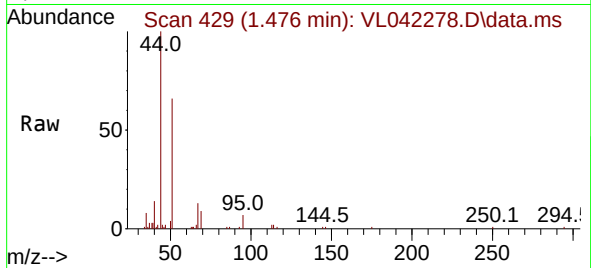
Tgt Ion: 85 Resp: 5250
 Ion Ratio Lower Upper
 85 100
 87 35.6 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.129 ppbv m
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

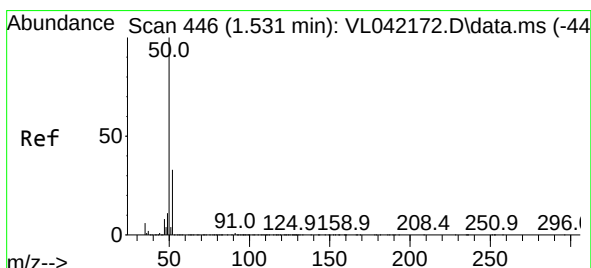
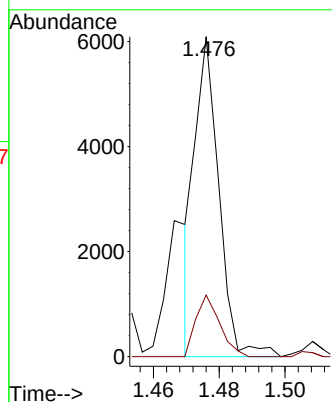
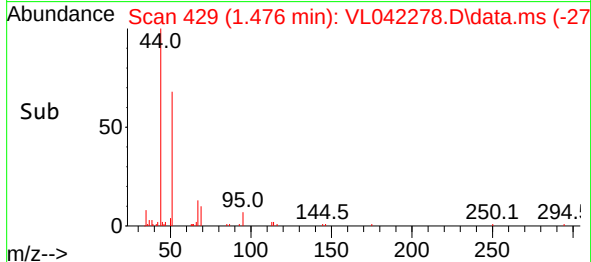
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-5-04012025



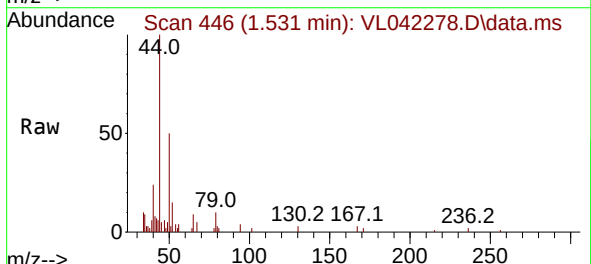
Tgt Ion: 51 Resp: 308
Ion Ratio Lower Upper
51 100
67 19.2 15.0 22.6

Manual Integrations
APPROVED

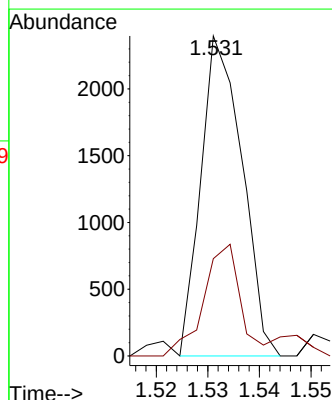
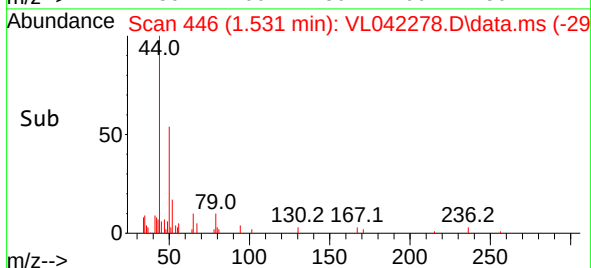
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

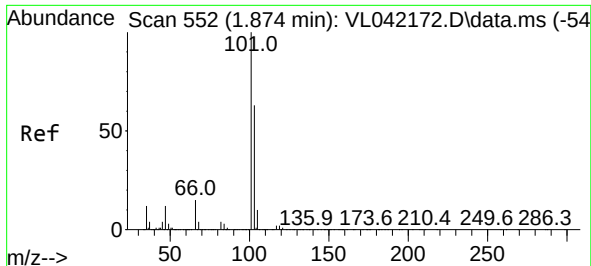


#4
Chloromethane
Concen: 0.139 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15



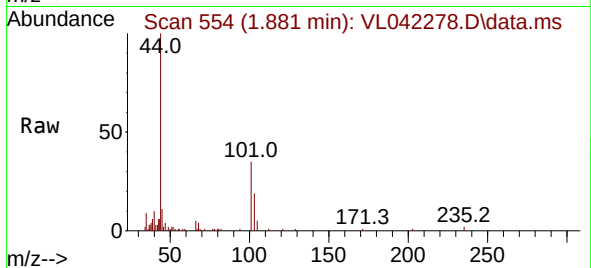
Tgt Ion: 50 Resp: 1329
Ion Ratio Lower Upper
50 100
52 25.3 26.1 39.1#





#11
Trichlorofluoromethane
Concen: 0.109 ppbv
RT: 1.881 min Scan# 505
Delta R.T. 0.006 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

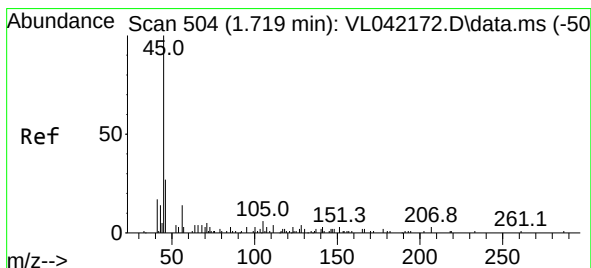
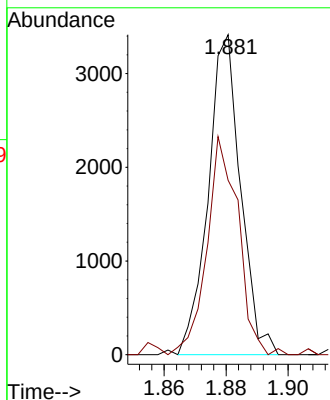
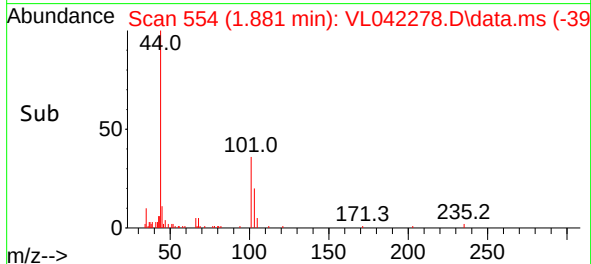
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-5-04012025



Tgt Ion:101 Resp: 248
Ion Ratio Lower Upper
101 100
103 52.6 50.2 75.2

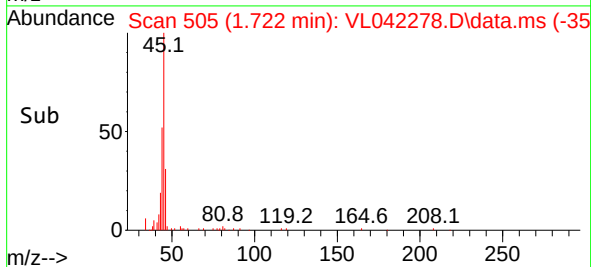
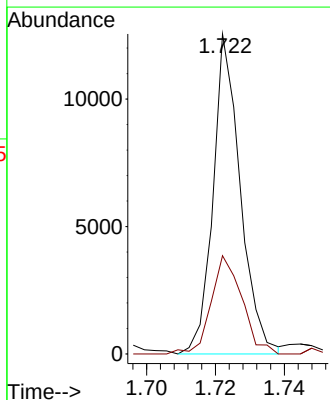
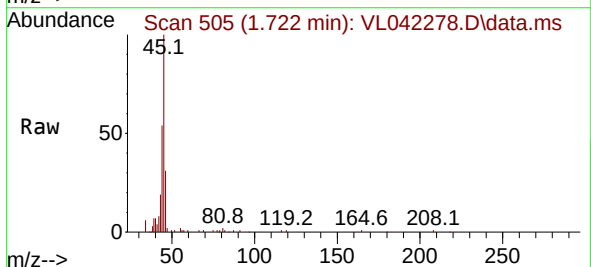
Manual Integrations
APPROVED

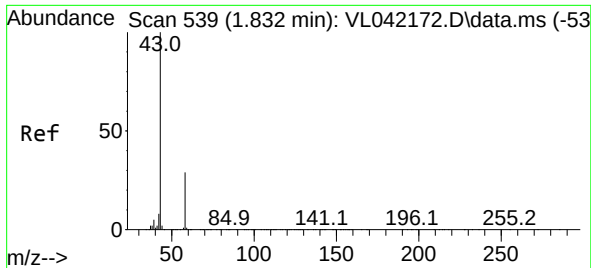
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#13
Ethanol
Concen: 6.637 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

Tgt Ion: 45 Resp: 6890
Ion Ratio Lower Upper
45 100
46 0.0 20.2 80.8#





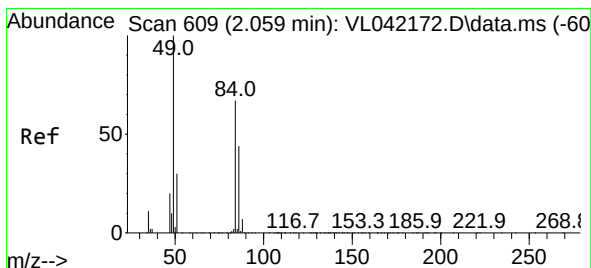
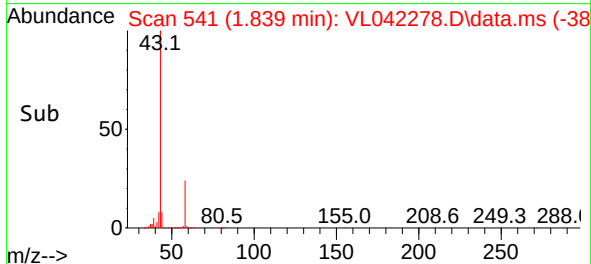
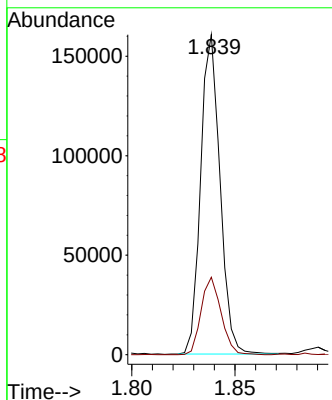
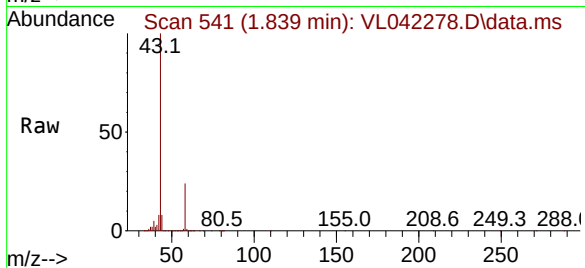
#15
Acetone
Concen: 4.699 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-5-04012025

Tgt Ion: 43 Resp: 10437
Ion Ratio Lower Upper
43 100
58 25.4 23.2 34.8

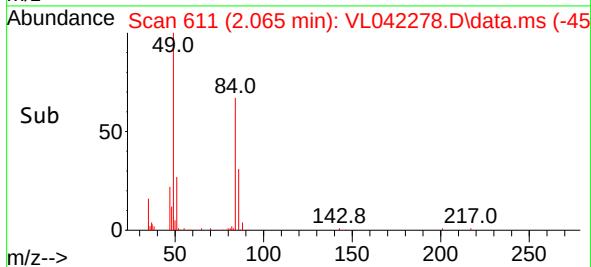
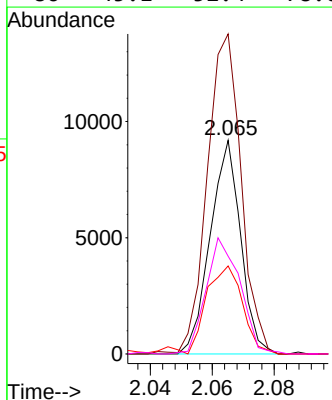
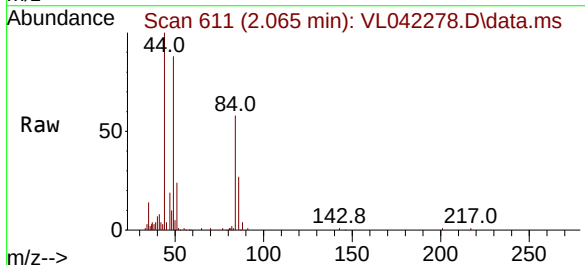
Manual Integrations
APPROVED

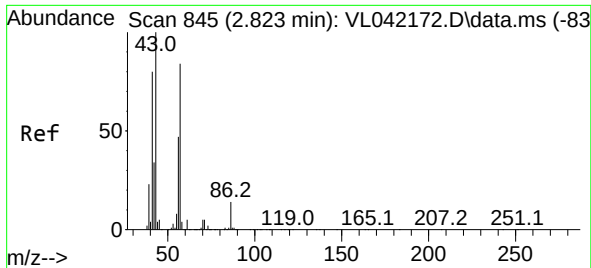
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#20
Methylene Chloride
Concen: 0.757 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

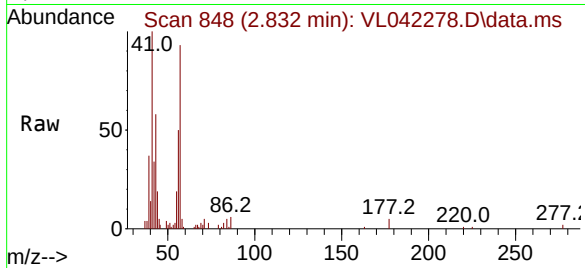
Tgt Ion: 84 Resp: 6266
Ion Ratio Lower Upper
84 100
49 149.1 120.2 180.4
51 41.2 37.4 56.0
86 45.1 52.4 78.6#





#26
Hexane
Concen: 0.232 ppbv
RT: 2.832 min Scan# 845
Delta R.T. 0.009 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

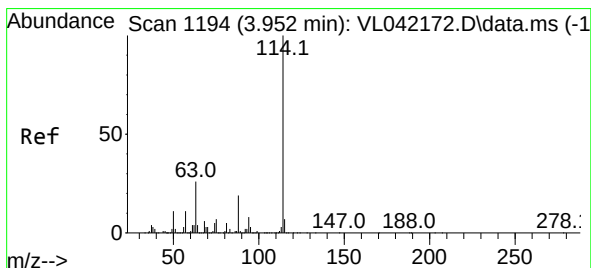
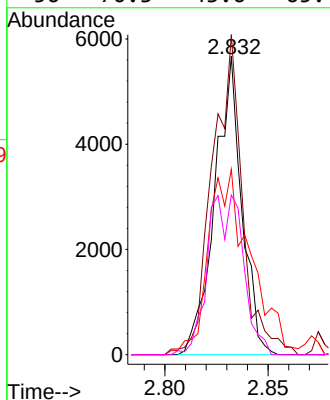
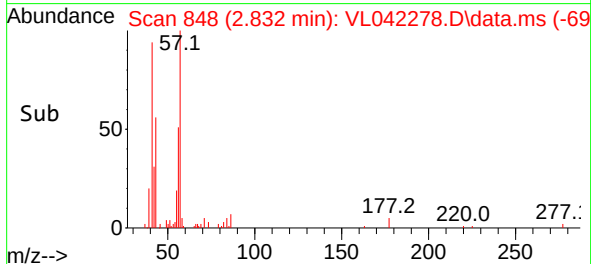
Instrument : MSVOA_L
ClientSampleId : SSSG-B1-5-04012025



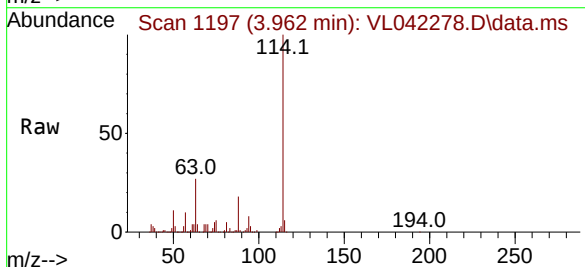
Tgt Ion: 57 Resp: 5174
Ion Ratio Lower Upper
57 100
41 121.1 76.6 114.8
43 101.4 207.8 311.8
56 70.3 43.6 65.4#

Manual Integrations
APPROVED

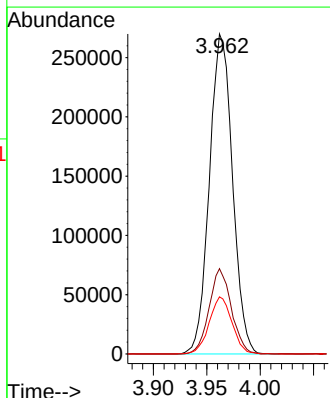
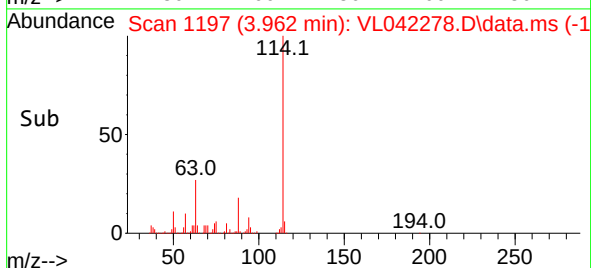
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

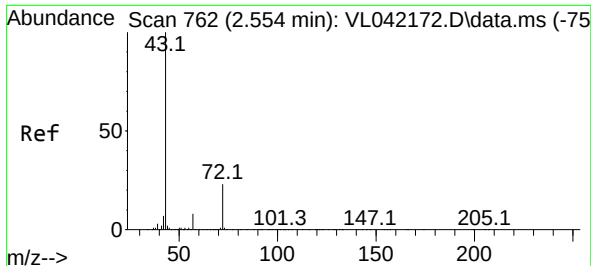


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.009 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15



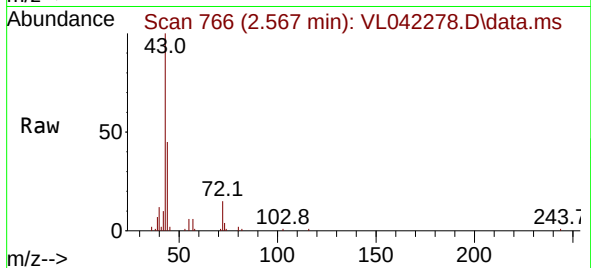
Tgt Ion:114 Resp: 406344
Ion Ratio Lower Upper
114 100
63 25.6 20.7 31.1
88 17.6 15.0 22.4





#34
2-Butanone
Concen: 0.177 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.013 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

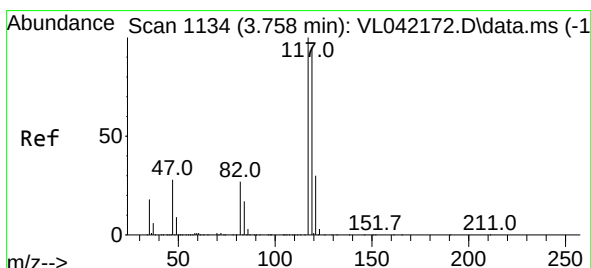
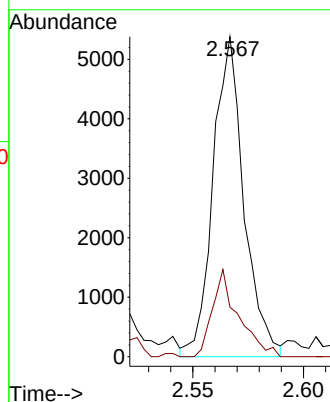
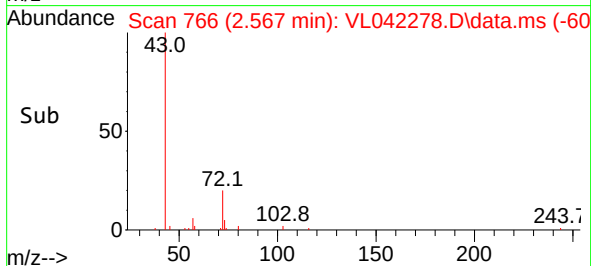
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-5-04012025



Tgt Ion: 43 Resp: 521
Ion Ratio Lower Upper
43 100
72 23.0 18.2 27.2

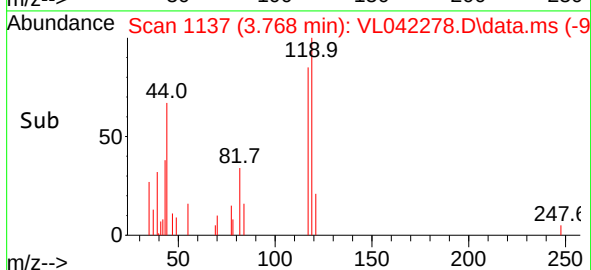
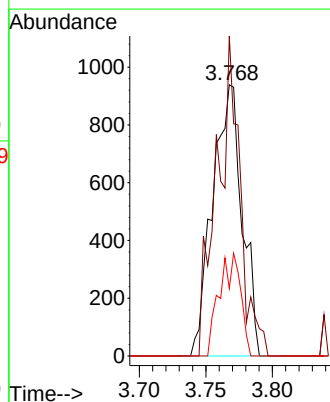
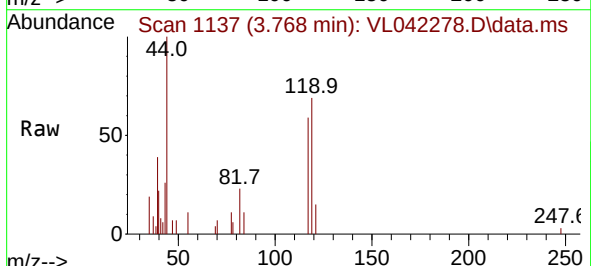
Manual Integrations
APPROVED

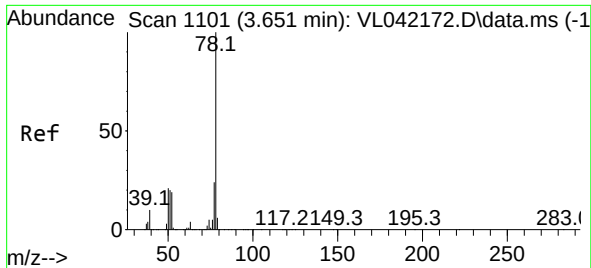
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#35
Carbon Tetrachloride
Concen: 0.046 ppbv m
RT: 3.768 min Scan# 1137
Delta R.T. 0.009 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

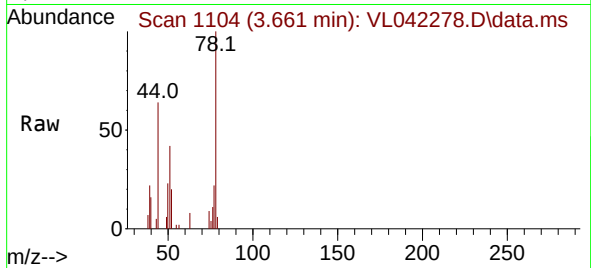
Tgt Ion:117 Resp: 1451
Ion Ratio Lower Upper
117 100
119 118.0 76.2 114.2#
121 24.9 24.2 36.4





#36
Benzene
Concen: 0.106 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.009 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

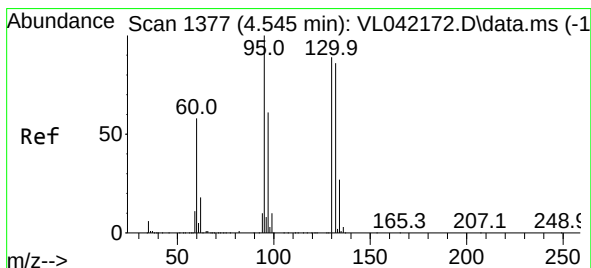
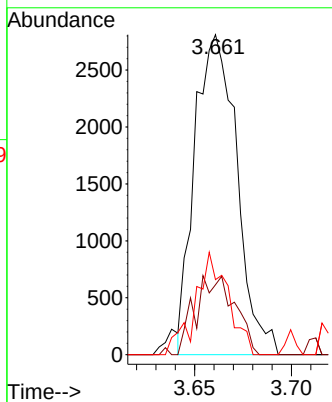
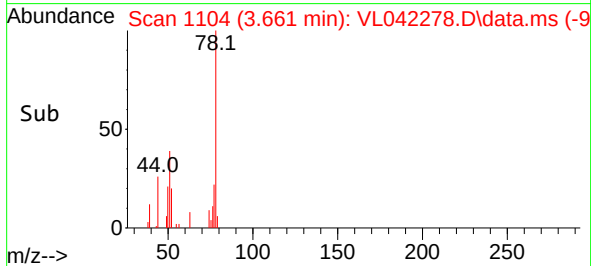
Instrument : MSVOA_L
ClientSampleId : SSSG-B1-5-04012025



Tgt Ion: 78 Resp: 425
Ion Ratio Lower Upper
78 100
77 21.8 19.1 28.7
50 23.5 16.6 24.8

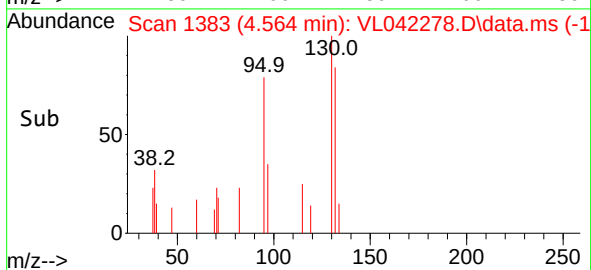
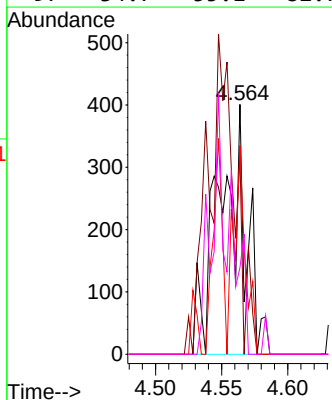
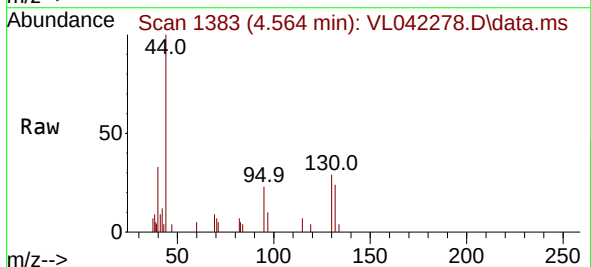
Manual Integrations
APPROVED

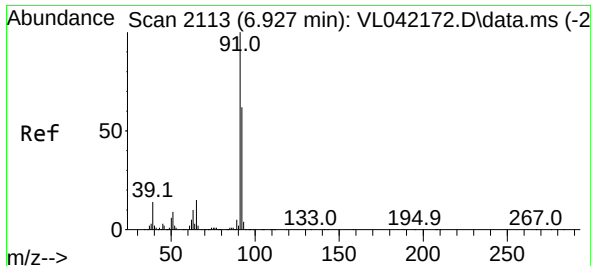
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#38
Trichloroethene
Concen: 0.034 ppbv m
RT: 4.564 min Scan# 1383
Delta R.T. 0.019 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

Tgt Ion:130 Resp: 573
Ion Ratio Lower Upper
130 100
95 79.3 89.8 134.8#
132 83.5 77.4 116.2
97 34.7 55.1 82.7#





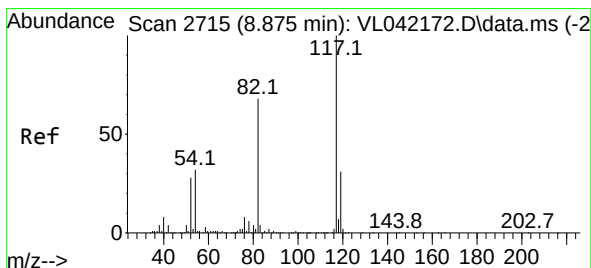
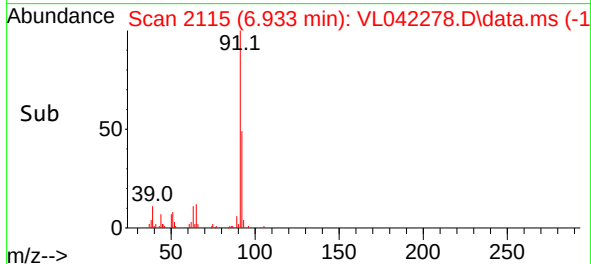
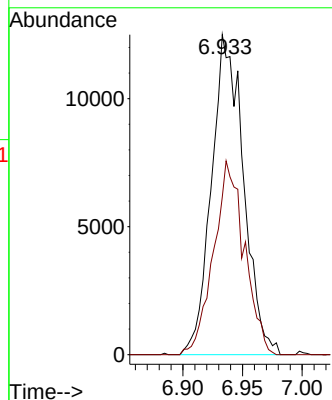
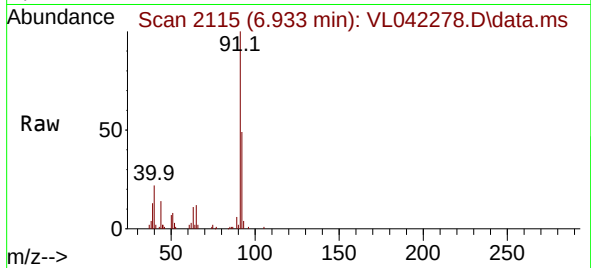
#53
Toluene
Concen: 0.488 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.006 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-5-04012025

Tgt Ion: 91 Resp: 2332
Ion Ratio Lower Upper
91 100
92 58.3 48.4 72.6

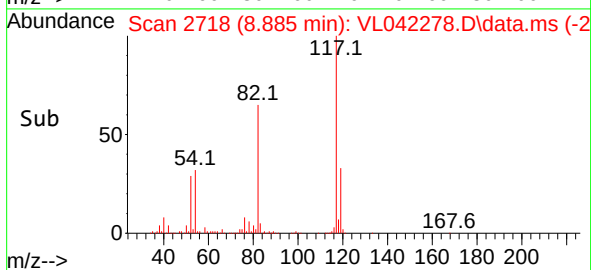
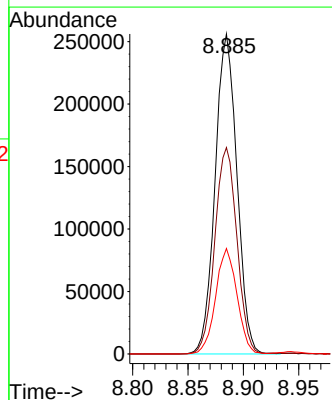
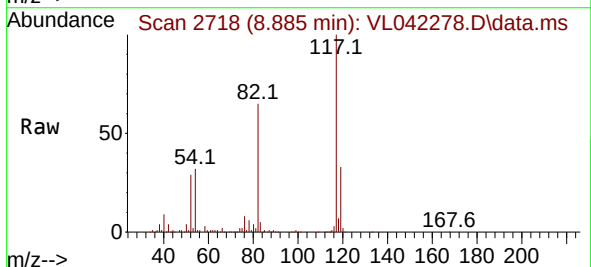
Manual Integrations
APPROVED

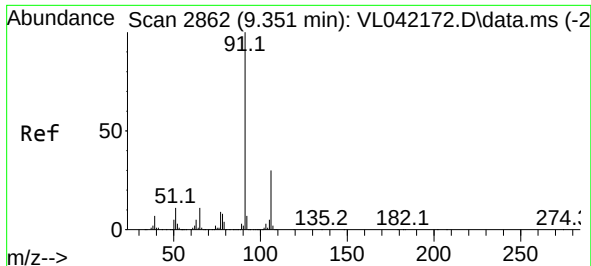
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.009 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

Tgt Ion:117 Resp: 351845
Ion Ratio Lower Upper
117 100
82 65.5 55.8 83.6
119 32.3 25.5 38.3





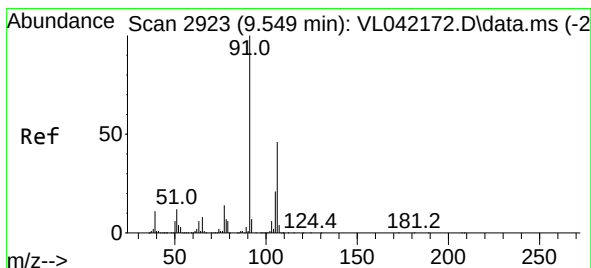
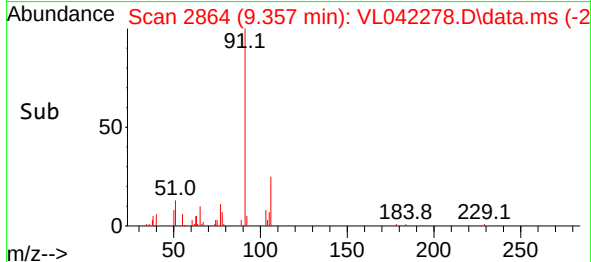
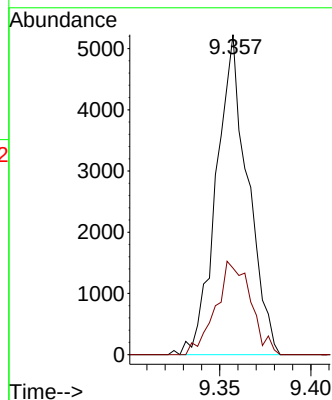
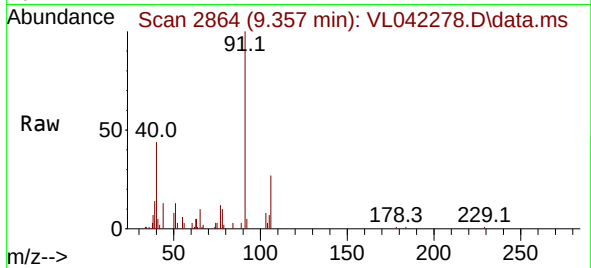
#58
Ethyl Benzene
Concen: 0.100 ppbv
RT: 9.357 min Scan# 2199
Delta R.T. 0.006 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-5-04012025

Tgt Ion: 91 Resp: 6275
Ion Ratio Lower Upper
91 100
106 27.1 24.2 36.2

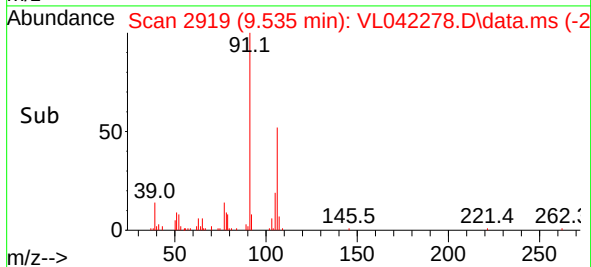
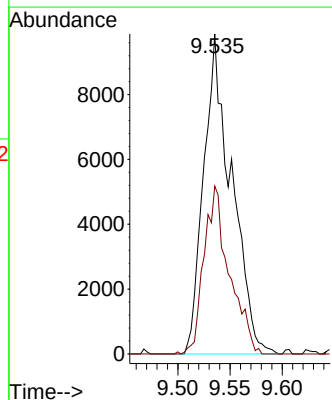
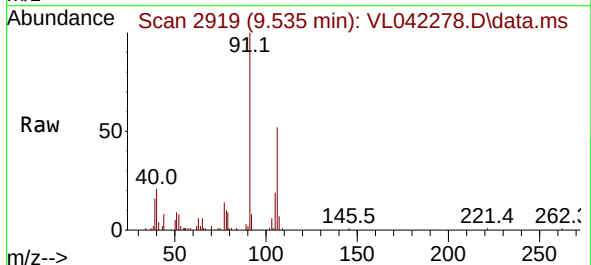
Manual Integrations
APPROVED

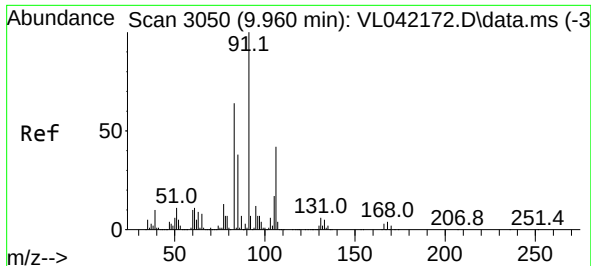
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#59
m/p-Xylene
Concen: 0.367 ppbv m
RT: 9.535 min Scan# 2919
Delta R.T. -0.013 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

Tgt Ion: 91 Resp: 18297
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6#





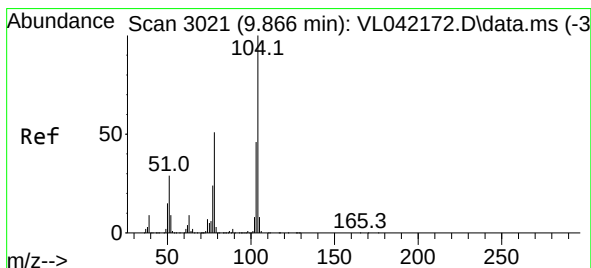
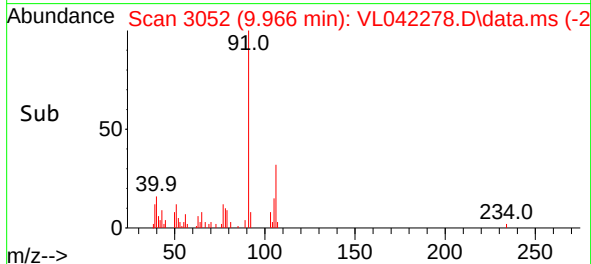
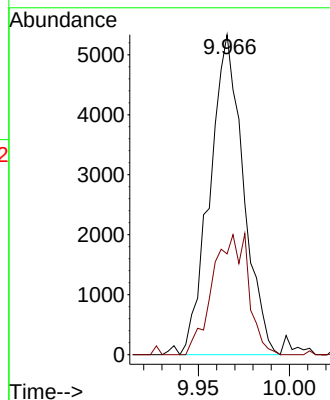
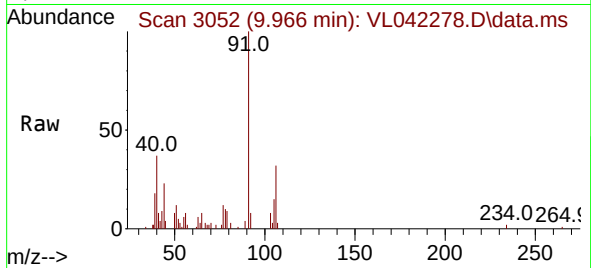
#60
o-Xylene
Concen: 0.137 ppbv
RT: 9.966 min Scan# 3050
Delta R.T. 0.006 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-5-04012025

Tgt Ion: 91 Resp: 683
Ion Ratio Lower Upper
91 100
106 40.7 20.8 62.5

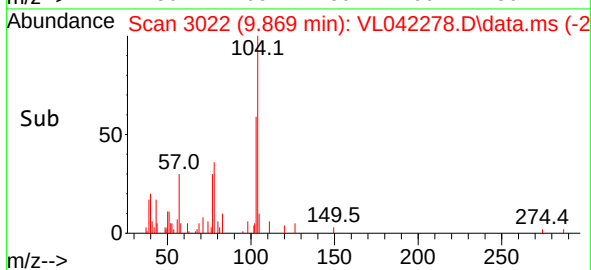
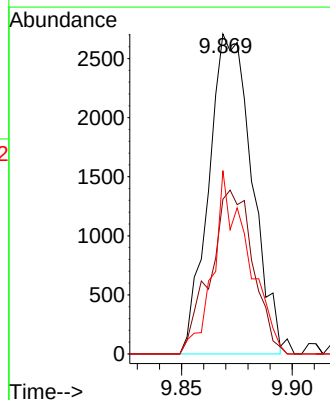
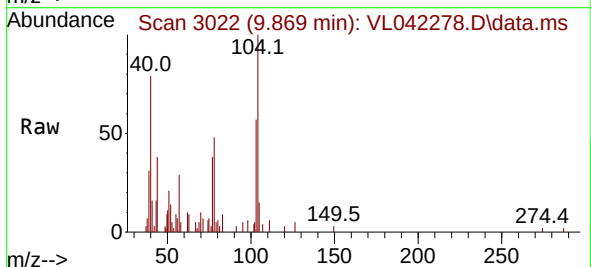
Manual Integrations
APPROVED

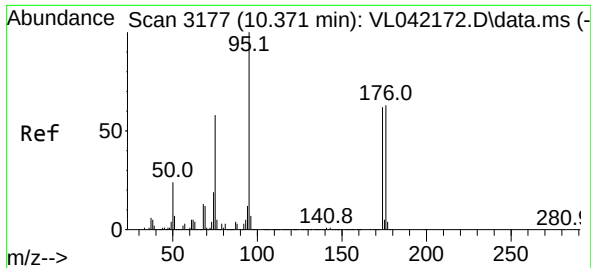
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#61
Styrene
Concen: 0.149 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. 0.003 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

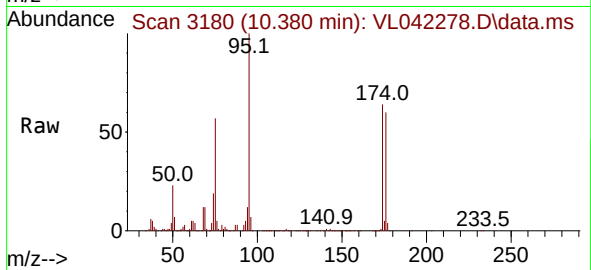
Tgt Ion:104 Resp: 3678
Ion Ratio Lower Upper
104 100
78 50.7 41.8 62.6
103 45.7 37.0 55.4





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.509 ppbv
 RT: 10.380 min Scan# 3177
 Delta R.T. 0.009 min
 Lab File: VL042278.D
 Acq: 09 Apr 2025 00:15

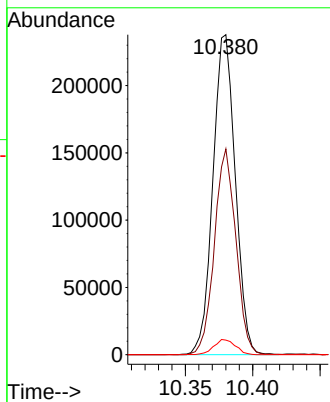
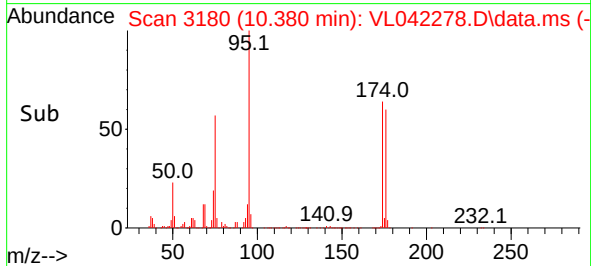
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-5-04012025



Tgt Ion: 95 Resp: 274750
 Ion Ratio Lower Upper
 95 100
 174 61.7 50.6 76.0
 175 4.6 3.8 5.6

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
 Supervised By :Semsettin Yesilyurt 04/10/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042278.D
 Acq On : 09 Apr 2025 00:15
 Operator : SY/MD
 Sample : Q1728-02 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-5-04012025

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: VL042278.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.424	410	413	416	rBV	3938151	3467436	100.00%	31.341%
2	1.437	416	417	421	rVB	4093688	1930928	55.69%	17.453%
3	1.839	537	541	549	rBV	242005	164666	4.75%	1.488%
4	2.790	824	835	843	rBV	573036	598318	17.26%	5.408%
5	3.962	1185	1197	1210	rBV	708522	1075426	31.02%	9.720%
6	6.936	2103	2116	2127	rBV4	32396	66851	1.93%	0.604%
7	8.885	2703	2718	2728	rBV	893399	1267969	36.57%	11.461%
8	8.943	2728	2736	2748	rVB2	120882	189755	5.47%	1.715%
9	9.225	2811	2823	2832	rBV7	36977	55486	1.60%	0.502%
10	9.535	2909	2919	2922	rBV4	29833	40466	1.17%	0.366%
11	10.380	3164	3180	3189	rBV	1112563	1308786	37.75%	11.830%
12	11.778	3598	3612	3620	rBV	200623	251509	7.25%	2.273%
13	12.231	3744	3752	3755	rBV2	130323	139190	4.01%	1.258%
14	12.254	3755	3759	3777	rVB2	145544	170506	4.92%	1.541%
15	12.442	3810	3817	3833	rVB3	83961	122968	3.55%	1.111%
16	12.513	3833	3839	3845	rBV3	40691	46701	1.35%	0.422%
17	12.652	3872	3882	3886	rBV5	44557	54794	1.58%	0.495%
18	13.387	4102	4109	4117	rBV	102286	111916	3.23%	1.012%

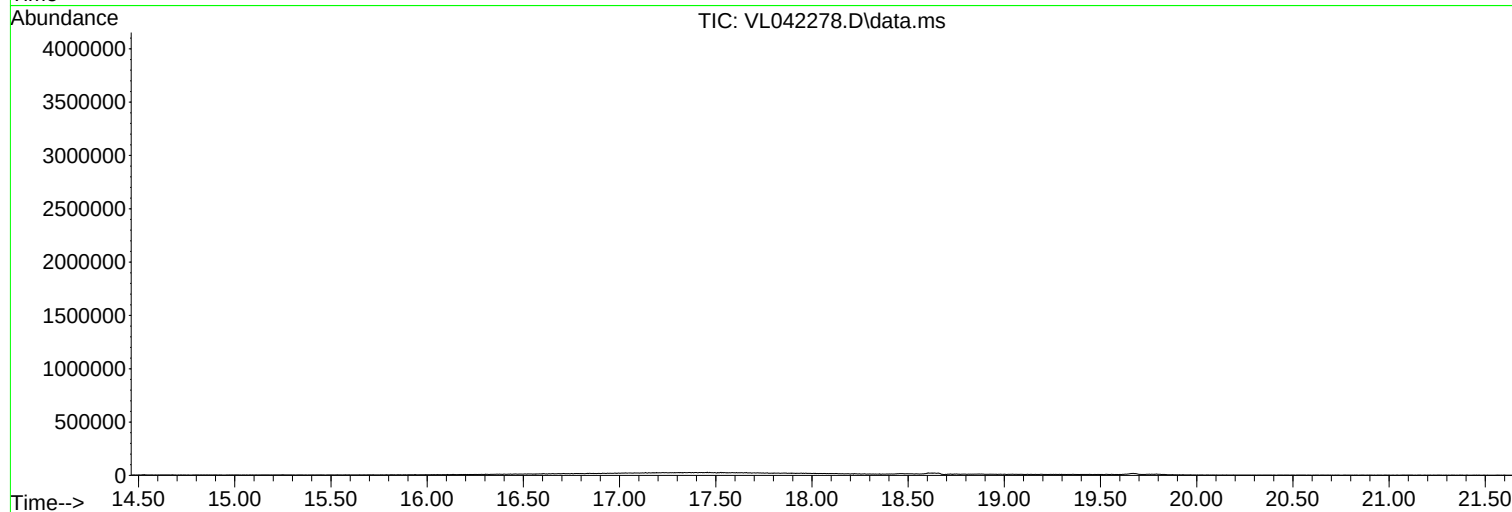
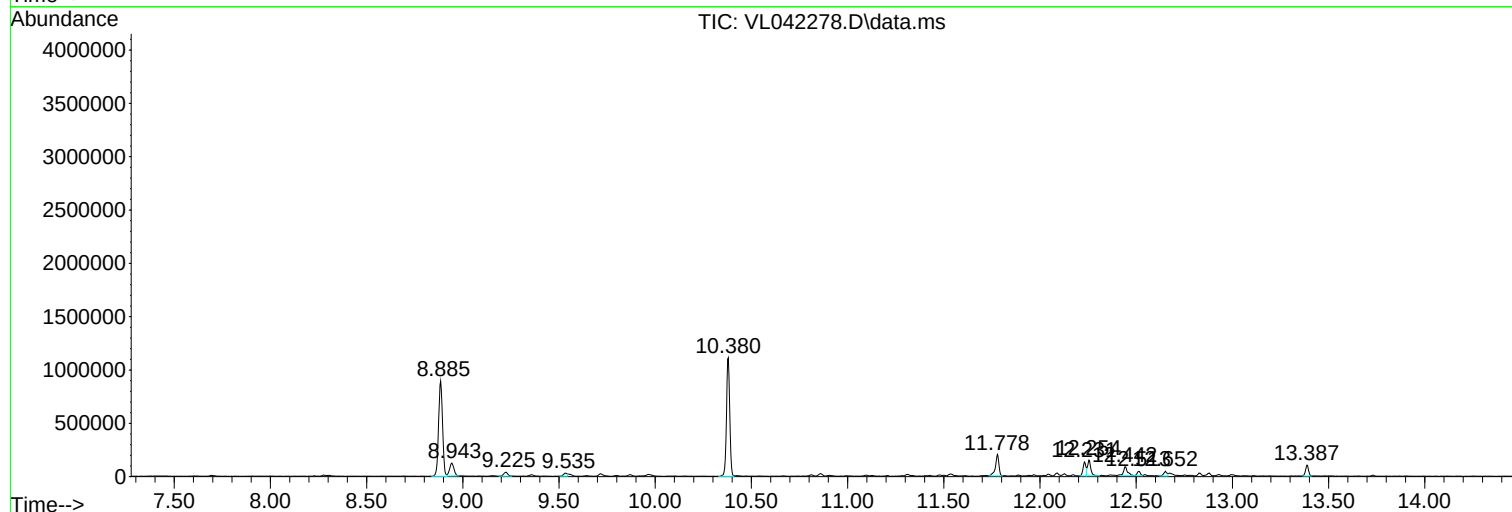
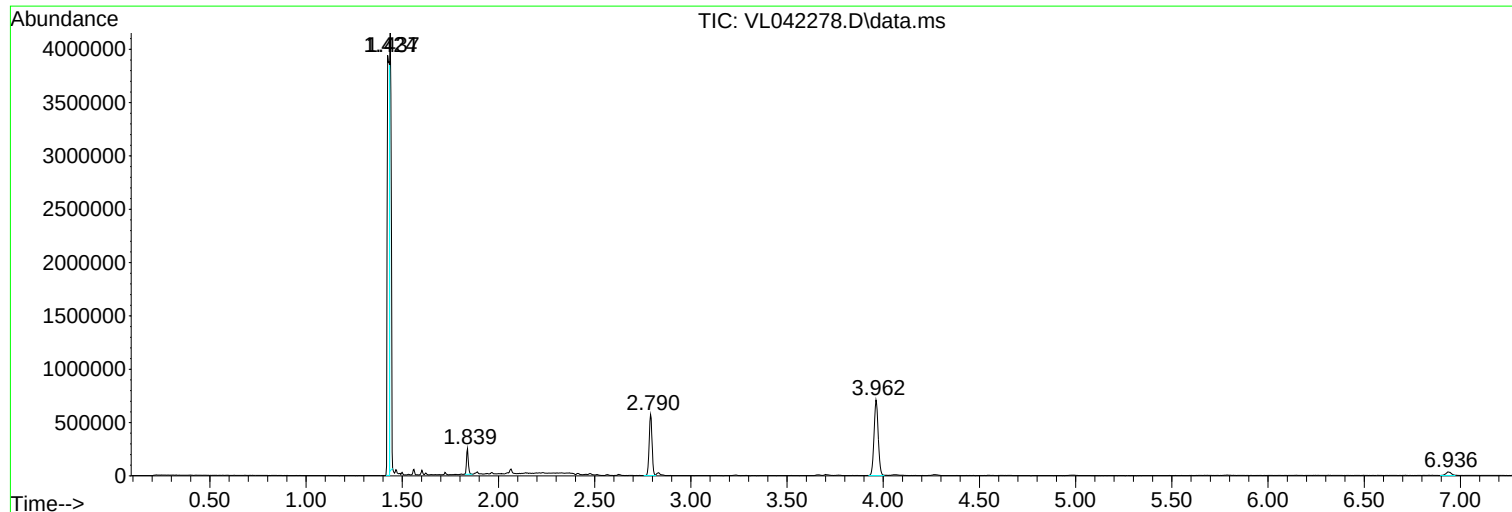
Sum of corrected areas: 11063671

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042278.D
Acq On : 09 Apr 2025 00:15
Operator : SY/MD
Sample : Q1728-02 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-5-04012025

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 : VL042278.D
Acq On : 09 Apr 2025 00:15
Operator : SY/MD
Sample : Q1728-02 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-5-04012025

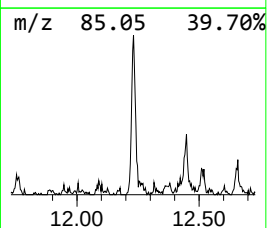
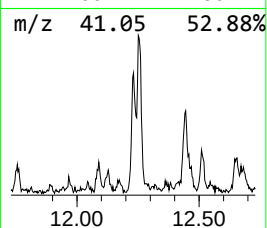
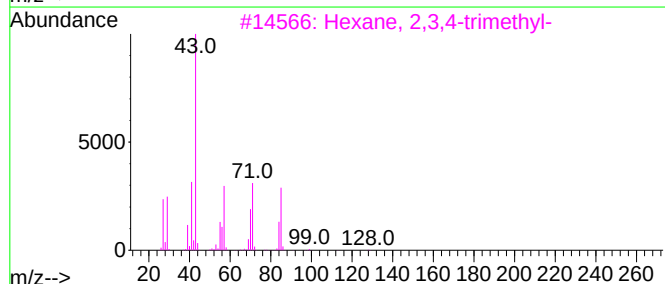
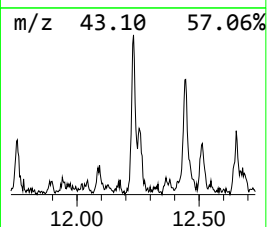
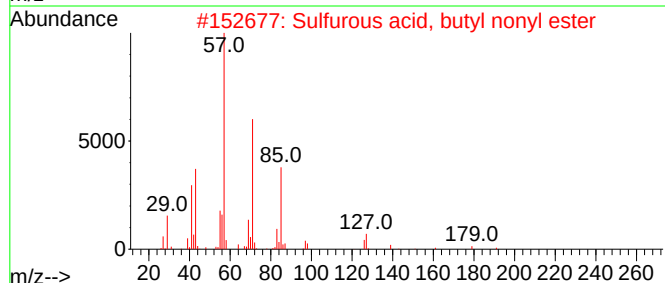
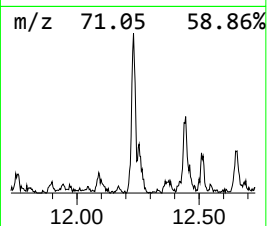
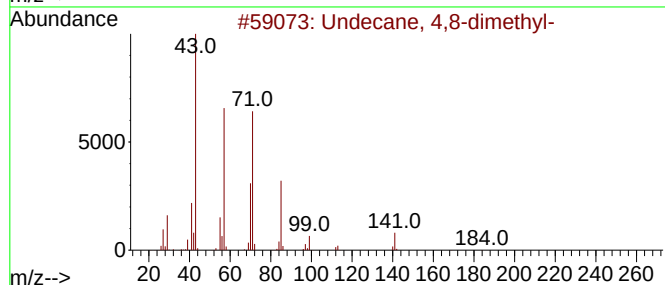
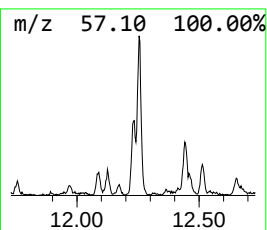
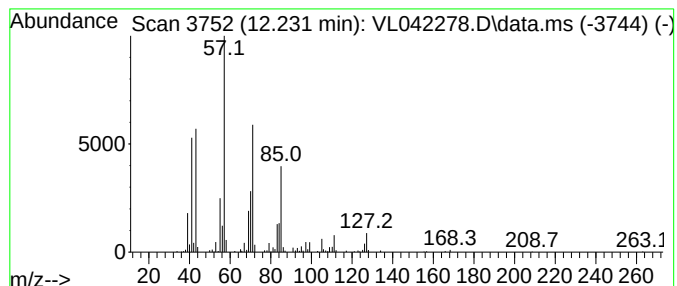
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 4 Undecane, 4,8-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.231	1.10 ppbv	139190	Chlorobenzene-d5	8.885

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Undecane, 4,8-dimethyl-	184	C13H28	017301-33-6	59
2			Sulfurous acid, butyl nonyl ester	264	C13H28O3S	1000309-17-6	59
3			Hexane, 2,3,4-trimethyl-	128	C9H20	000921-47-1	59
4			Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	59
5			Ether, hexyl pentyl	172	C11H24O	032357-83-8	53



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042278.D
Acq On : 09 Apr 2025 00:15
Operator : SY/MD
Sample : Q1728-02 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-5-04012025

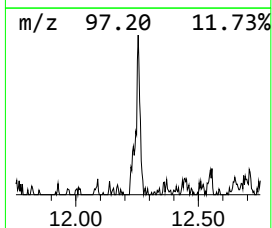
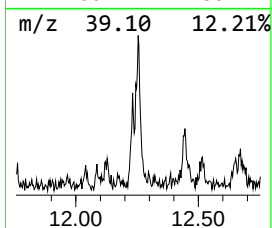
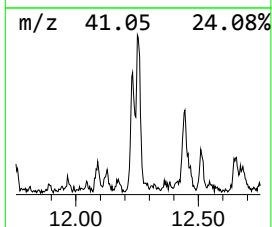
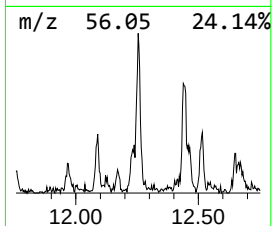
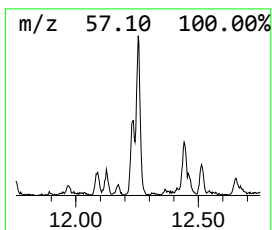
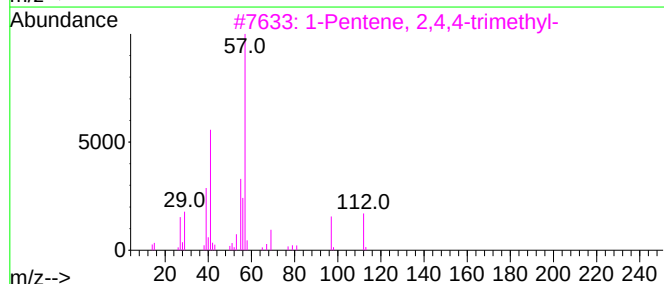
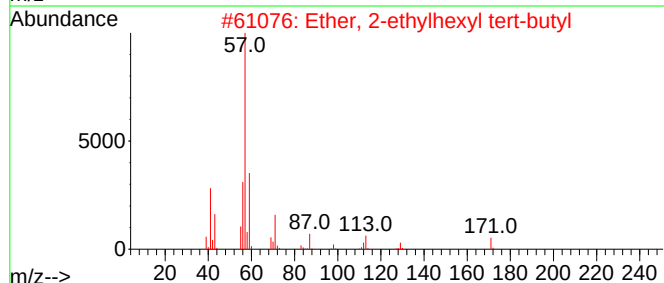
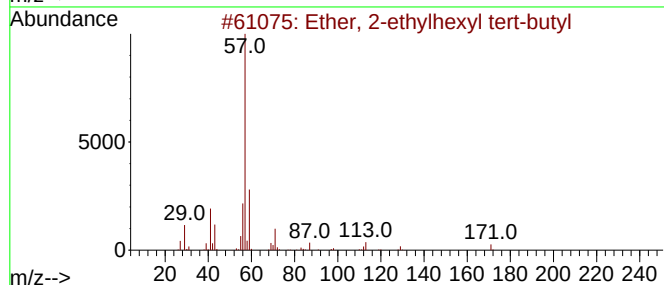
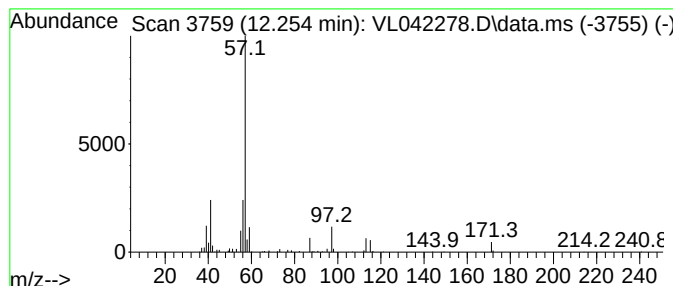
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 5 unknown12.254 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.254	1.34 ppbv	170506	Chlorobenzene-d5	8.885

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Ether, 2-ethylhexyl tert-butyl	186	C12H26O	083704-03-4	40
2			Ether, 2-ethylhexyl tert-butyl	186	C12H26O	083704-03-4	40
3			1-Pentene, 2,4,4-trimethyl-	112	C8H16	000107-39-1	38
4			Propanoic acid, 2,2-dimethyl-, s...	208	C5H9AgO2	007324-58-5	32
5			Propane, 1-(1,1-dimethylethoxy)-...	144	C9H20O	032970-46-0	32



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042278.D
Acq On : 09 Apr 2025 00:15
Operator : SY/MD
Sample : Q1728-02 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-5-04012025

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
Undecane, 4,8-d...	12.231	1.1	ppbv	139190	3	8.885	1267970	10.0
unknown12.254	12.254	1.3	ppbv	170506	3	8.885	1267970	10.0

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/02/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B2-2-04022025	SDG No.:	Q1728
Lab Sample ID:	Q1728-03	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
VL042284.D	40		04/09/25 03:22	VL040825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	8.40	41.5	U	41.5	98.9	ug/m3
74-87-3	Chloromethane	3.90	8.05	U	8.05	41.3	ug/m3
75-01-4	Vinyl Chloride	0.56	1.43	U	1.43	3.07	ug/m3
74-83-9	Bromomethane	5.60	21.7	U	21.7	77.7	ug/m3
75-00-3	Chloroethane	6.80	17.9	U	17.9	52.8	ug/m3
109-99-9	Tetrahydrofuran	5.20	15.3	U	15.3	59.0	ug/m3
75-69-4	Trichlorofluoromethane	6.40	36.0	U	36.0	112	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	6.40	49.0	U	49.0	153	ug/m3
76-14-2	Dichlorotetrafluoroethane	3.50	24.5	U	24.5	140	ug/m3
75-65-0	tert-Butyl alcohol	7.60	23.0	U	23.0	60.6	ug/m3
142-82-5	Heptane	13.2	54.1	J	18.0	82.0	ug/m3
75-35-4	1,1-Dichloroethene	5.60	22.2	U	22.2	79.3	ug/m3
67-64-1	Acetone	99.6	237		22.8	47.5	ug/m3
75-15-0	Carbon Disulfide	25.2	78.5		19.9	62.3	ug/m3
1634-04-4	Methyl tert-Butyl Ether	4.80	17.3	U	17.3	72.1	ug/m3
75-09-2	Methylene Chloride	14.8	51.4	J	26.4	69.5	ug/m3
156-60-5	trans-1,2-Dichloroethene	7.60	30.1	U	30.1	79.3	ug/m3
75-34-3	1,1-Dichloroethane	5.20	21.1	U	21.1	81.0	ug/m3
110-82-7	Cyclohexane	28.0	96.4		30.3	68.8	ug/m3
78-93-3	2-Butanone	6.80	20.1	J	14.2	59.0	ug/m3
56-23-5	Carbon Tetrachloride	0.44	2.77	U	2.77	7.55	ug/m3
156-59-2	cis-1,2-Dichloroethene	3.60	14.3	U	14.3	79.3	ug/m3
67-66-3	Chloroform	3.30	16.1	U	16.1	97.7	ug/m3
71-55-6	1,1,1-Trichloroethane	0.38	2.07	U	2.07	6.55	ug/m3
540-84-1	2,2,4-Trimethylpentane	4.00	18.7	U	18.7	93.4	ug/m3
71-43-2	Benzene	3.50	11.2	U	11.2	63.9	ug/m3
107-06-2	1,2-Dichloroethane	3.60	14.6	U	14.6	81.0	ug/m3
79-01-6	Trichloroethene	0.68	3.65	U	3.65	6.45	ug/m3
78-87-5	1,2-Dichloropropane	4.40	20.3	U	20.3	92.4	ug/m3
75-27-4	Bromodichloromethane	3.10	20.8	U	20.8	134	ug/m3
108-10-1	4-Methyl-2-Pentanone	3.70	15.2	U	15.2	82.0	ug/m3
108-88-3	Toluene	22.8	85.9		16.6	75.4	ug/m3
10061-02-6	t-1,3-Dichloropropene	2.40	10.9	U	10.9	90.8	ug/m3
10061-01-5	cis-1,3-Dichloropropene	2.60	11.8	U	11.8	90.8	ug/m3
79-00-5	1,1,2-Trichloroethane	2.80	15.3	U	15.3	109	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/02/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B2-2-04022025	SDG No.:	Q1728
Lab Sample ID:	Q1728-03	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
VL042284.D	40		04/09/25 03:22	VL040825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	2.60	22.1	U	22.1	170	ug/m3
106-93-4	1,2-Dibromoethane	2.90	22.3	U	22.3	30.7	ug/m3
127-18-4	Tetrachloroethene	0.60	4.07	U	4.07	8.14	ug/m3
108-90-7	Chlorobenzene	3.00	13.8	U	13.8	92.1	ug/m3
100-41-4	Ethyl Benzene	46.8	203		20.9	86.9	ug/m3
179601-23-1	m/p-Xylene	510	2220		36.5	174	ug/m3
95-47-6	o-Xylene	400	1740		20.9	86.9	ug/m3
100-42-5	Styrene	4.40	18.7	U	18.7	85.2	ug/m3
75-25-2	Bromoform	2.30	23.8	U	23.8	207	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.44	3.02	U	3.02	8.24	ug/m3
95-49-8	2-Chlorotoluene	4.40	22.8	U	22.8	104	ug/m3
108-67-8	1,3,5-Trimethylbenzene	180	885		21.6	98.3	ug/m3
95-63-6	1,2,4-Trimethylbenzene	210	1030		15.2	98.3	ug/m3
541-73-1	1,3-Dichlorobenzene	3.20	19.2	U	19.2	120	ug/m3
106-46-7	1,4-Dichlorobenzene	2.10	12.6	U	12.6	120	ug/m3
95-50-1	1,2-Dichlorobenzene	3.00	18.0	U	18.0	120	ug/m3
120-82-1	1,2,4-Trichlorobenzene	3.40	25.2	U	25.2	148	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	3.40	36.3	U	36.3	213	ug/m3
106-99-0	1,3-Butadiene	5.20	11.5	U	11.5	44.3	ug/m3
91-20-3	Naphthalene	3.00	15.7	U	15.7	21.0	ug/m3
622-96-8	4-Ethyltoluene	74.0	364		23.6	98.3	ug/m3
110-54-3	Hexane	4.40	15.5	U	15.5	70.5	ug/m3
107-05-1	Allyl Chloride	6.00	18.8	U	18.8	62.6	ug/m3
123-91-1	1,4-Dioxane	8.40	30.3	U	30.3	72.1	ug/m3
80-62-6	Methyl Methacrylate	3.40	13.9	U	13.9	81.9	ug/m3

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	11.1		70 (65) - 130 (135)	111%	SPK: 10

INTERNAL STANDARDS

74-97-5	Bromochloromethane	157000	2.787
540-36-3	1,4-Difluorobenzene	395000	3.959
3114-55-4	Chlorobenzene-d5	369000	8.885

TENTATIVE IDENTIFIED COMPOUNDS

115-07-1	Propene	11.2	J	1.48	ppbv
64-17-5	Ethanol	46.4	J	1.72	ppbv
000565-59-3	Pentane, 2,3-dimethyl-	1300	J	4.09	ppbv

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/02/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B2-2-04022025	SDG No.:	Q1728
Lab Sample ID:	Q1728-03	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
VL042284.D	40		04/09/25 03:22	VL040825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
002532-58-3	Cyclopentane, 1,3-dimethyl-, cis-	1100		J		4.52	ppbv
000872-56-0	Isopropylcyclobutane	1100		J		4.60	ppbv
000108-87-2	Cyclohexane, methyl-	3900		J		5.67	ppbv
	unknown5.794	5600		J		5.79	ppbv
000592-13-2	Hexane, 2,5-dimethyl-	6000		J		6.21	ppbv
000589-43-5	Hexane, 2,4-dimethyl-	4500		J		6.28	ppbv
	unknown7.642	540		J		7.64	ppbv
006876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	490		J		8.15	ppbv
98-82-8	Isopropylbenzene	48.4		J		10.5	ppbv
98-06-6	tert-Butylbenzene	24.4		J		11.5	ppbv
99-87-6	p-Isopropyltoluene	5.20		J		11.9	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 : VL042284.D
 Acq On : 09 Apr 2025 03:22
 Operator : SY/MD
 Sample : Q1728-03 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-2-04022025

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
 Supervised By :Semsettin Yesilyurt 04/10/2025

Quant Time: Apr 09 05:23:08 2025

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

Quant Title : AIR ANALYSIS BY METHOD TO-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	2.787	49	156706	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	394605	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	369232	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	337277	11.123	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	111.200%
Target Compounds						
					Qvalue	
9) Propene	1.483	41	3071	0.283	ppbv #	81
10) Heptane	4.985	43	9496m	0.330	ppbv	
13) Ethanol	1.719	45	1188m	1.160	ppbv	
15) Acetone	1.835	43	54597	2.491	ppbv	94
20) Methylene Chloride	2.059	84	2997	0.367	ppbv #	85
27) Carbon Disulfide	2.149	76	14783	0.627	ppbv #	27
30) Cyclohexane	3.855	84	13277m	0.696	ppbv	
34) 2-Butanone	2.560	43	5000	0.175	ppbv	96
53) Toluene	6.933	91	26400	0.569	ppbv	99
58) Ethyl Benzene	9.364	91	76723	1.170	ppbv	99
59) m/p-Xylene	9.539	91	667927m	12.754	ppbv	
60) o-Xylene	9.966	91	523601	9.973	ppbv	97
62) Isopropylbenzene	10.542	105	95094	1.211	ppbv	98
65) tert-Butylbenzene	11.536	119	44016	0.606	ppbv #	78
69) p-Isopropyltoluene	11.927	119	10964	0.126	ppbv	93
72) 4-Ethyltoluene	11.128	105	121091	1.852	ppbv #	63
73) 1,3,5-Trimethylbenzene	11.205	105	259320	4.542	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	351232	5.340	ppbv #	65

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

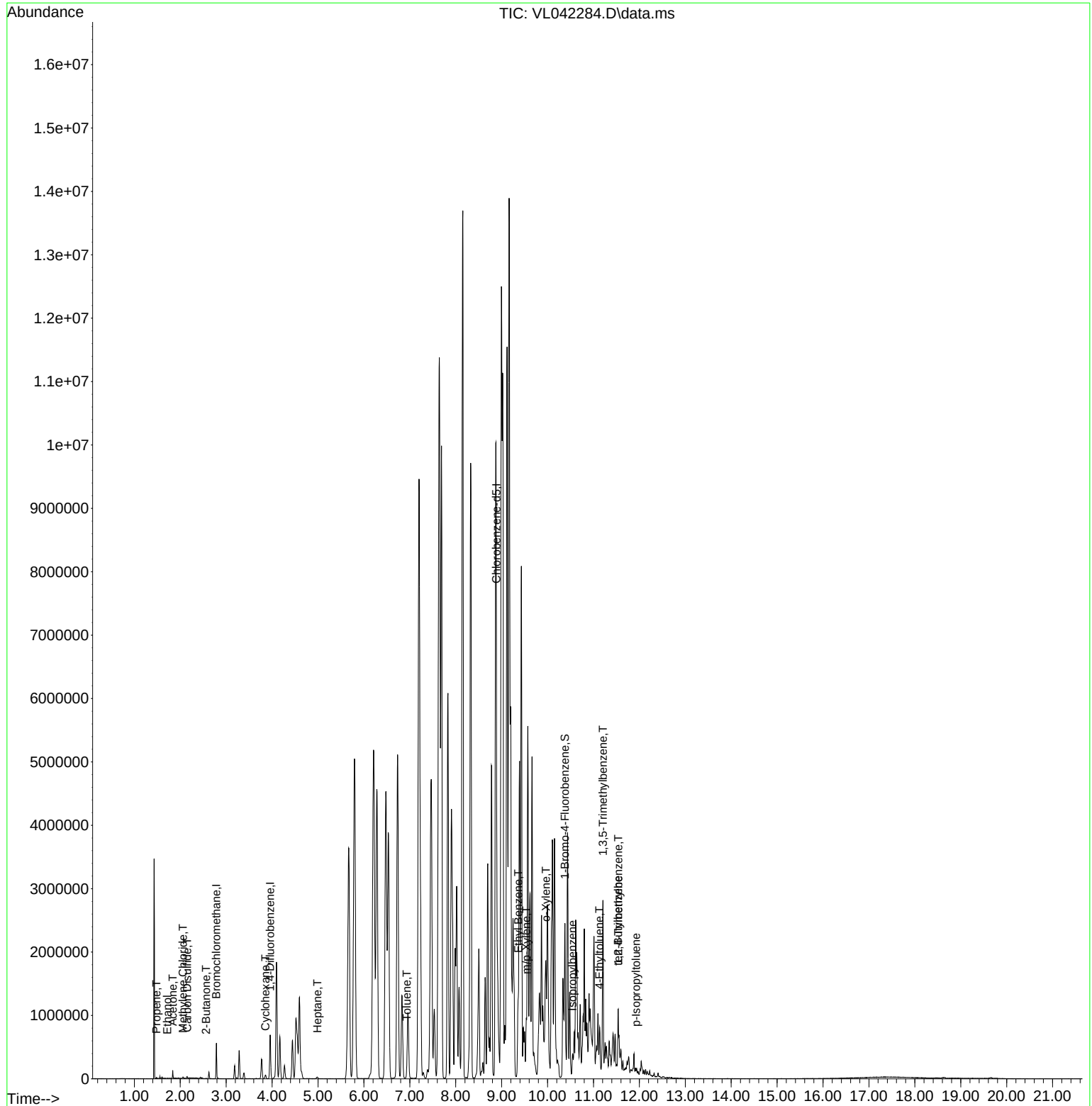
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Data File : VL042284.D
Acq On : 09 Apr 2025 03:22
Operator : SY/MD
Sample : Q1728-03 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

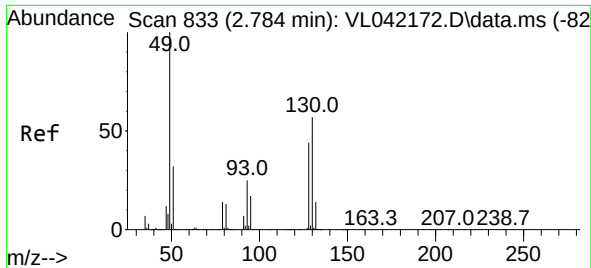
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

Manual Integrations
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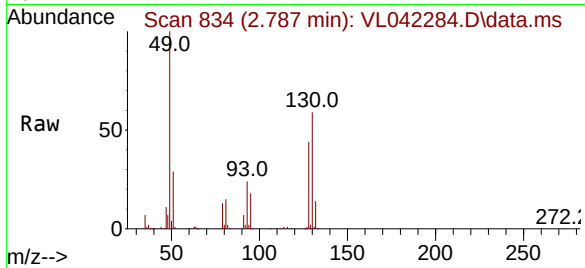
Quant Time: Apr 09 05:23:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

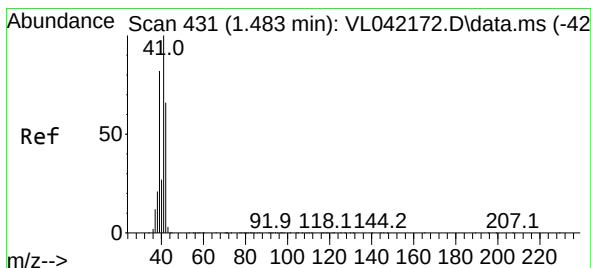
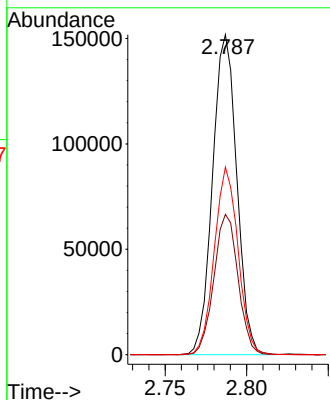
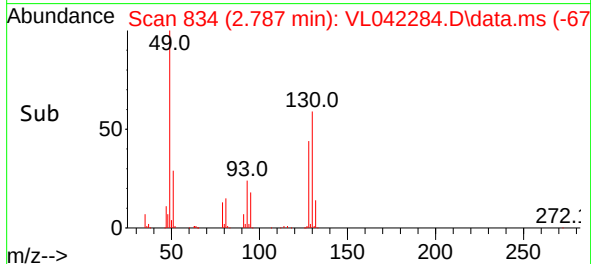
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025



Tgt Ion: 49 Resp: 156700
Ion Ratio Lower Upper
49 100
128 43.8 22.9 68.5
130 57.5 28.8 86.4

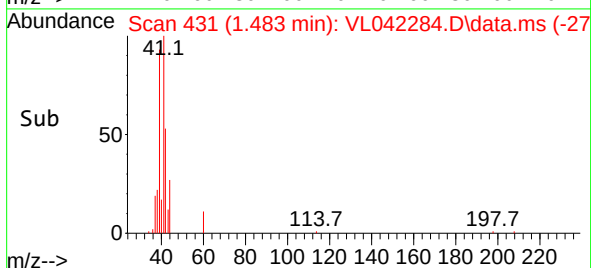
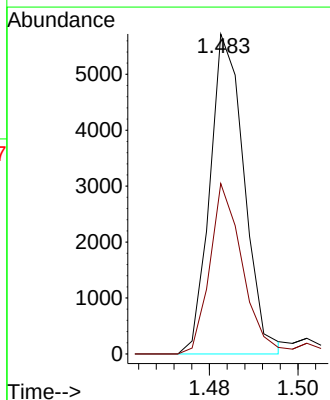
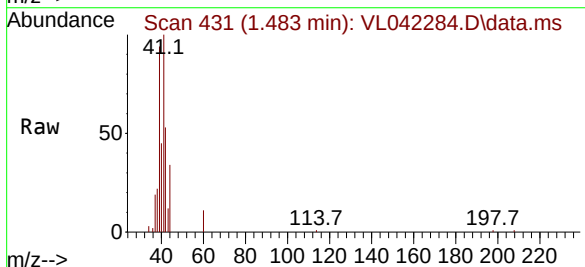
Manual Integrations
APPROVED

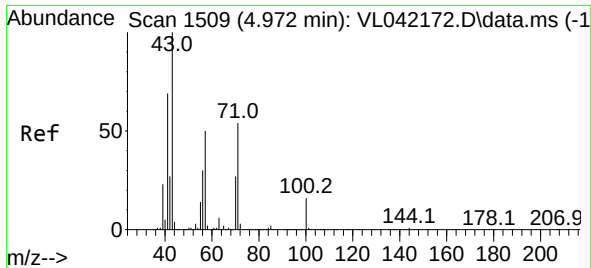
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#9
Propene
Concen: 0.283 ppbv
RT: 1.483 min Scan# 431
Delta R.T. -0.000 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

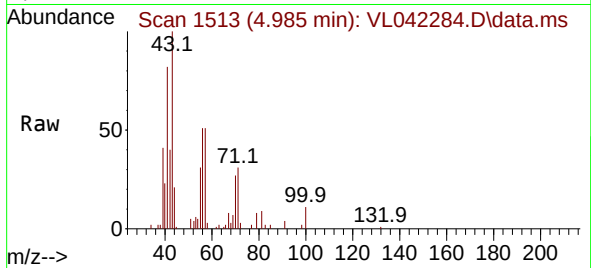
Tgt Ion: 41 Resp: 3071
Ion Ratio Lower Upper
41 100
42 53.9 55.4 83.2#





#10
Heptane
Concen: 0.330 ppbv m
RT: 4.985 min Scan# 1513
Delta R.T. 0.013 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

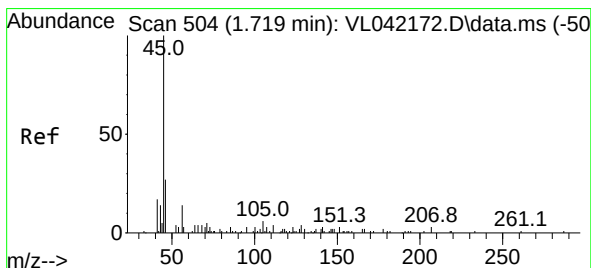
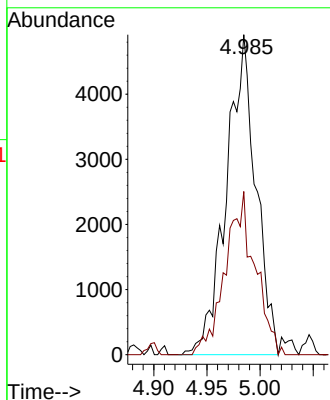
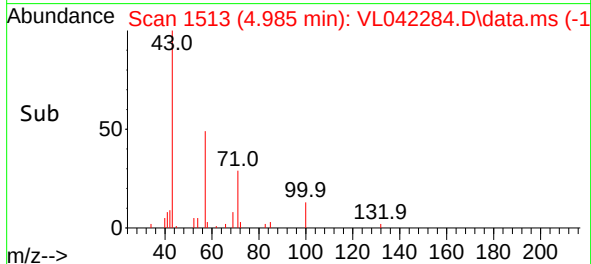
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025



Tgt Ion: 43 Resp: 9490
Ion Ratio Lower Upper
43 100
57 51.1 39.4 59.2

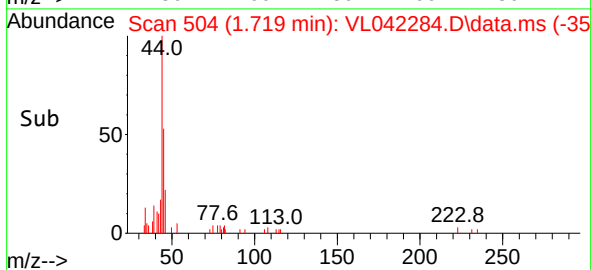
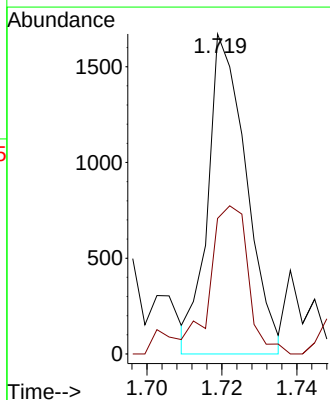
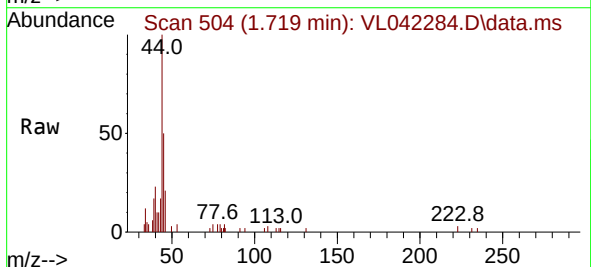
Manual Integrations
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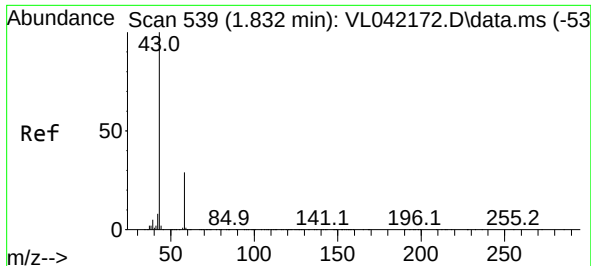
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#13
Ethanol
Concen: 1.160 ppbv m
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

Tgt Ion: 45 Resp: 1188
Ion Ratio Lower Upper
45 100
46 0.0 20.2 80.8#





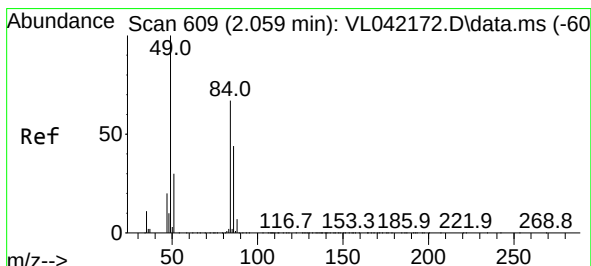
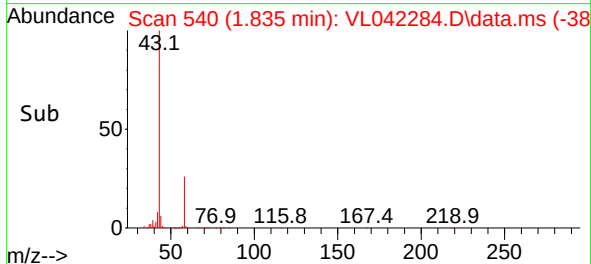
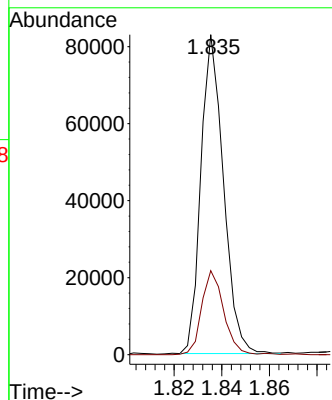
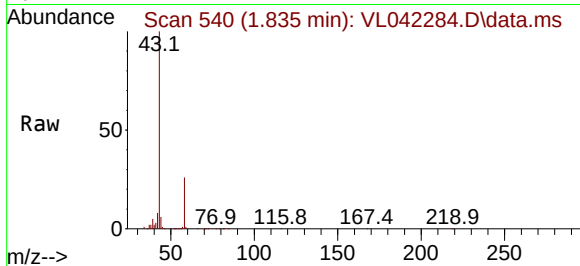
#15
Acetone
Concen: 2.491 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

Tgt Ion: 43 Resp: 5459
Ion Ratio Lower Upper
43 100
58 26.0 23.2 34.8

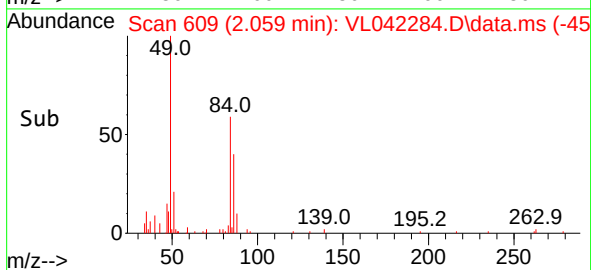
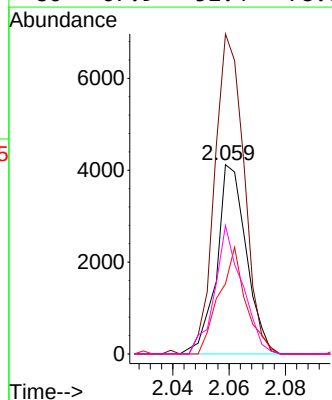
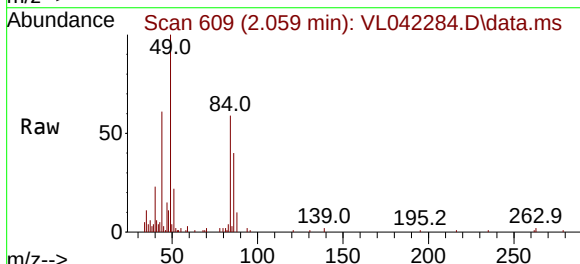
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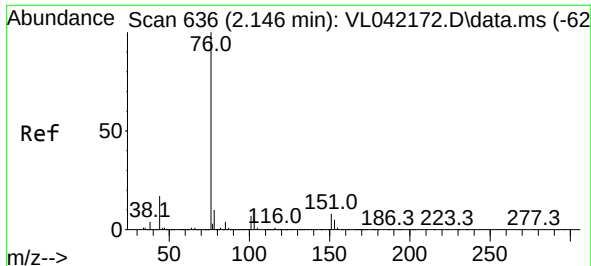
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#20
Methylene Chloride
Concen: 0.367 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

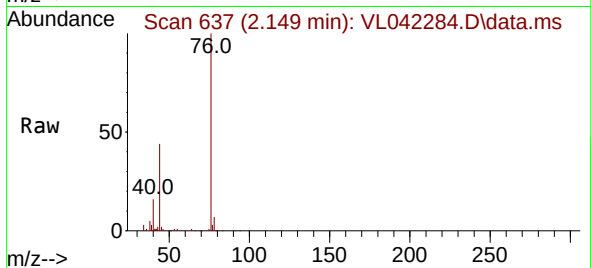
Tgt Ion: 84 Resp: 2997
Ion Ratio Lower Upper
84 100
49 176.5 120.2 180.4
51 37.1 37.4 56.0#
86 67.9 52.4 78.6





#27
Carbon Disulfide
Concen: 0.627 ppbv
RT: 2.149 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

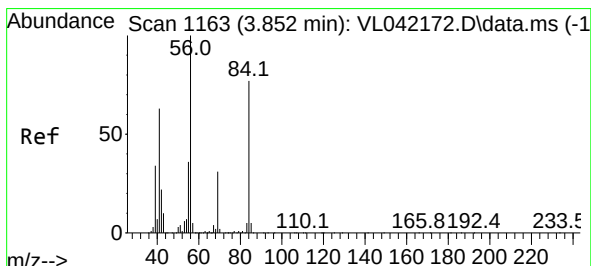
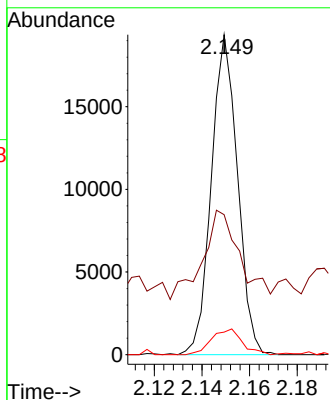
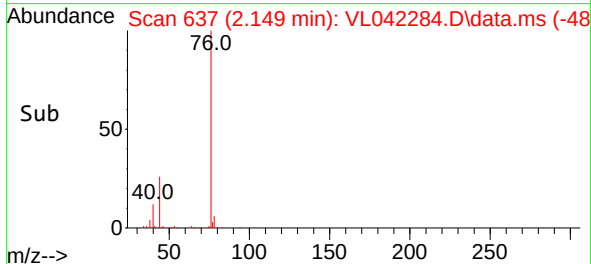
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025



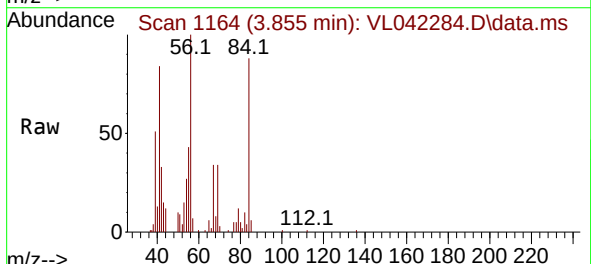
Tgt Ion: 76 Resp: 14783
Ion Ratio Lower Upper
76 100
44 70.3 14.7 22.1#
78 9.7 9.3 13.9

Manual Integrations
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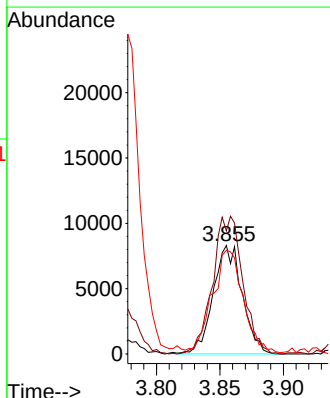
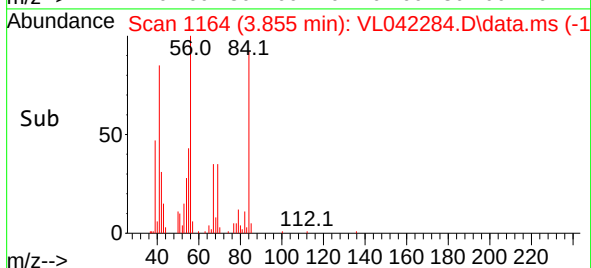
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

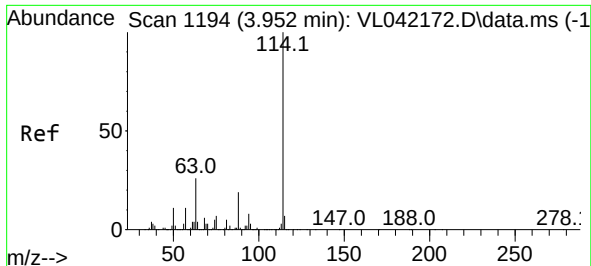


#30
Cyclohexane
Concen: 0.696 ppbv m
RT: 3.855 min Scan# 1164
Delta R.T. 0.003 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22



Tgt Ion: 84 Resp: 13277
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: 3.959 min Scan# 1196

Delta R.T. 0.006 min

Lab File: VL042284.D

Acq: 09 Apr 2025 03:22

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-2-04022025

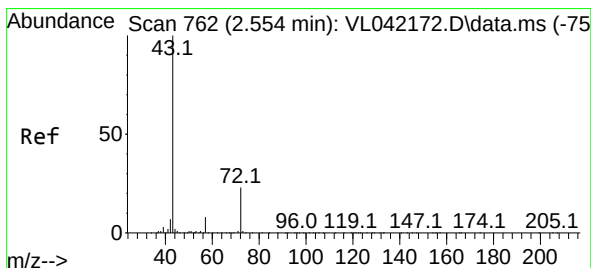
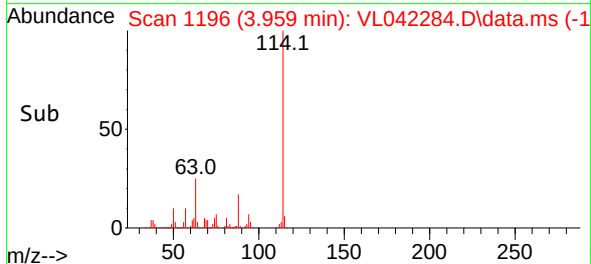
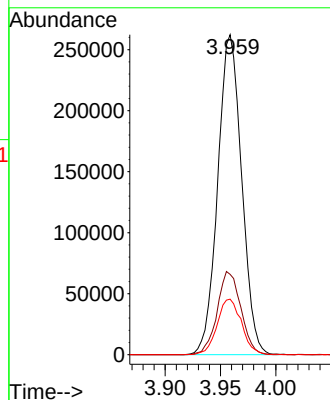
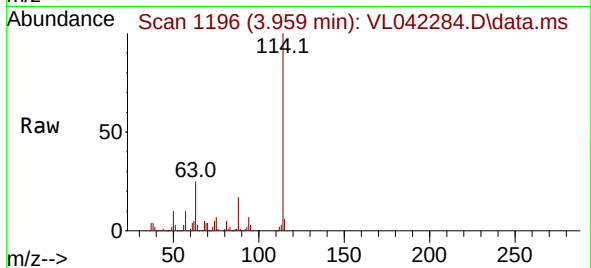
Tgt Ion:114 Resp: 39460

Ion	Ratio	Lower	Upper
114	100		
63	25.8	20.7	31.1
88	17.6	15.0	22.4

Manual Integrations

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Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#34

2-Butanone

Concen: 0.175 ppbv

RT: 2.560 min Scan# 764

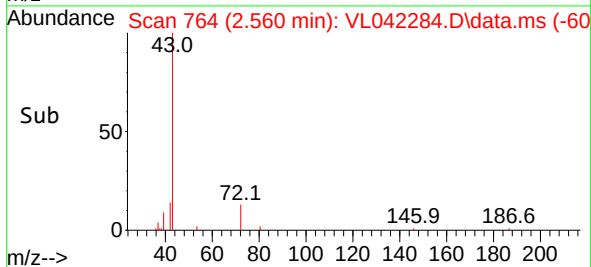
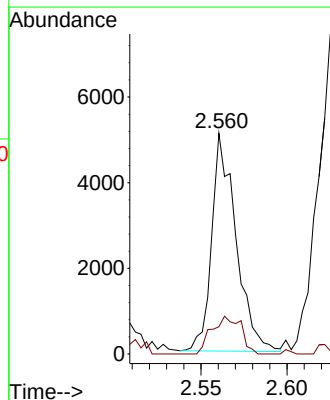
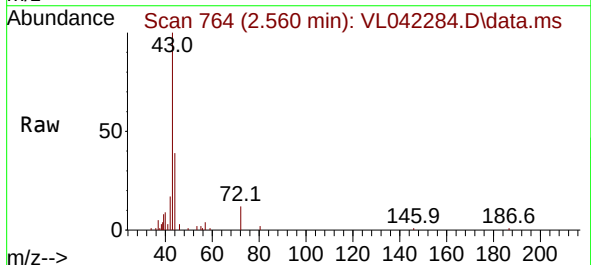
Delta R.T. 0.006 min

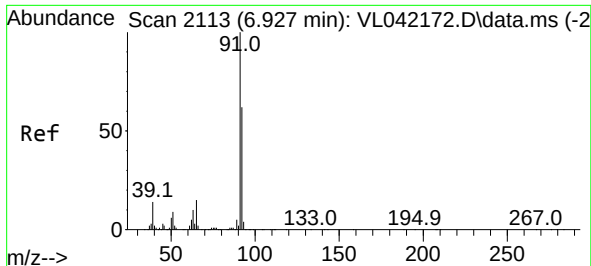
Lab File: VL042284.D

Acq: 09 Apr 2025 03:22

Tgt Ion: 43 Resp: 5000

Ion	Ratio	Lower	Upper
43	100		
72	20.8	18.2	27.2





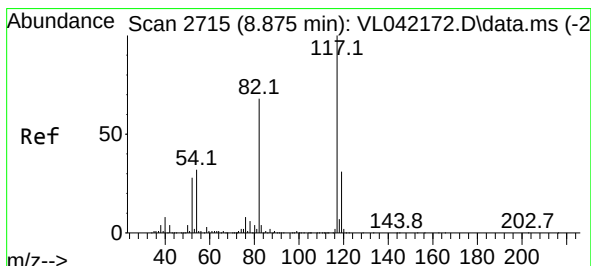
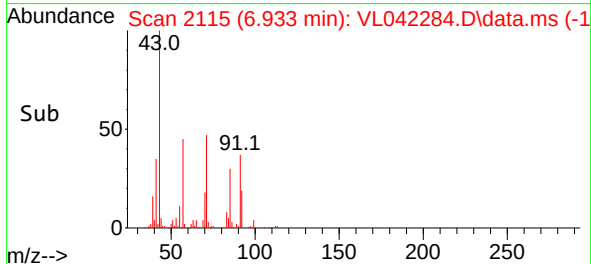
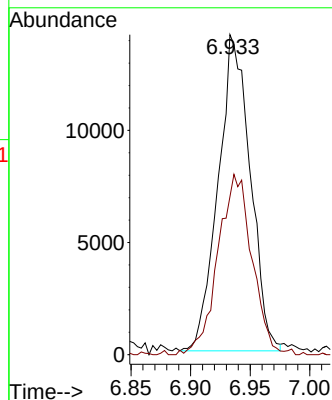
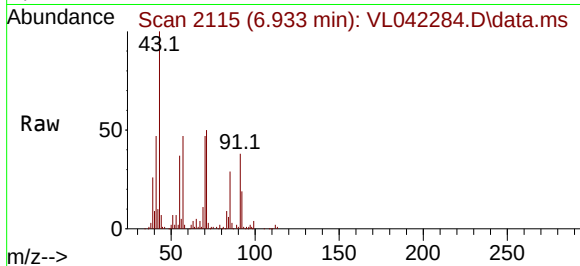
#53
Toluene
Concen: 0.569 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.006 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

Instrument : MSVOA_L
ClientSampleId : SSSG-B2-2-04022025

Tgt Ion: 91 Resp: 26400
Ion Ratio Lower Upper
91 100
92 61.2 48.4 72.6

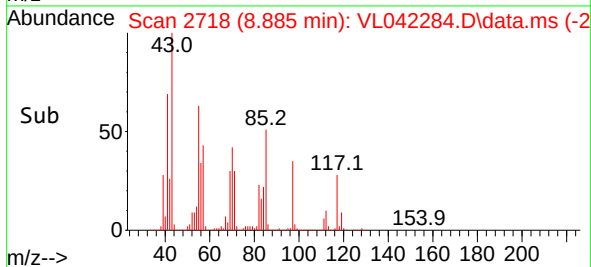
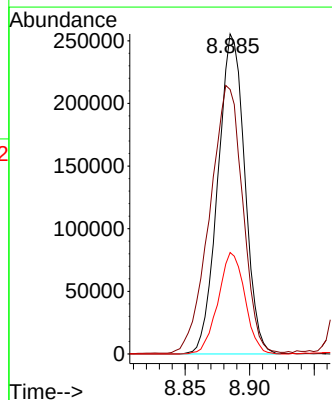
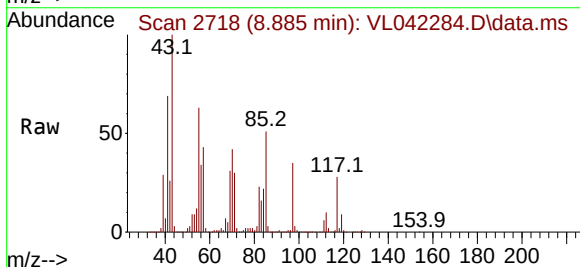
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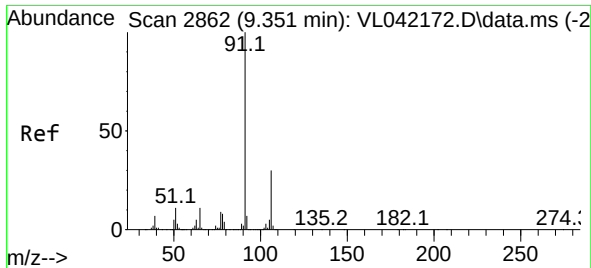
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.009 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

Tgt Ion:117 Resp: 369232
Ion Ratio Lower Upper
117 100
82 102.9 55.8 83.6#
119 31.6 25.5 38.3





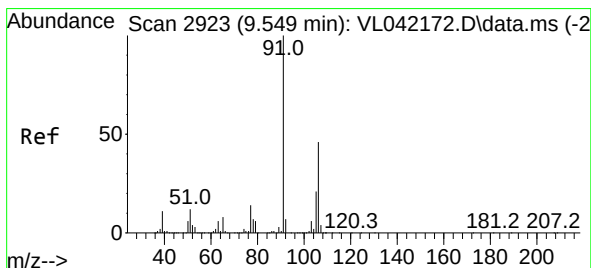
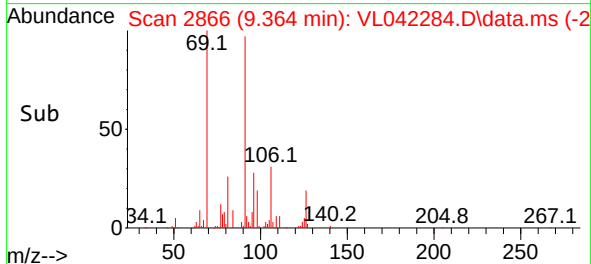
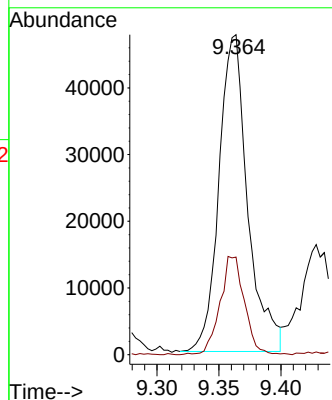
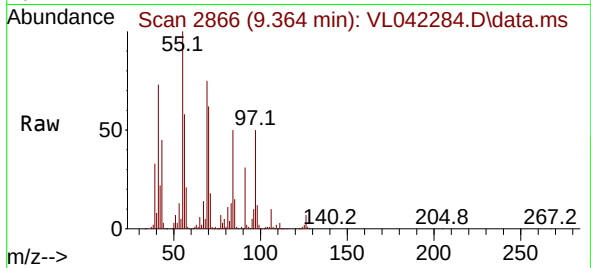
#58
Ethyl Benzene
Concen: 1.170 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.013 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

Tgt Ion: 91 Resp: 76723
Ion Ratio Lower Upper
91 100
106 30.8 24.2 36.2

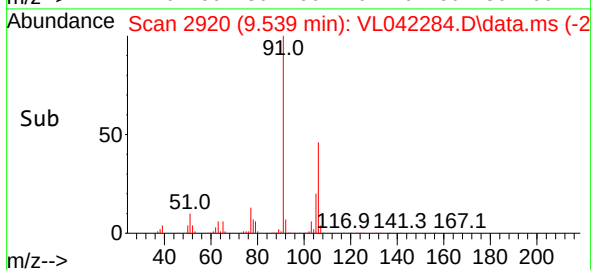
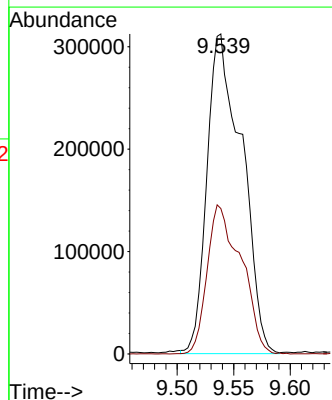
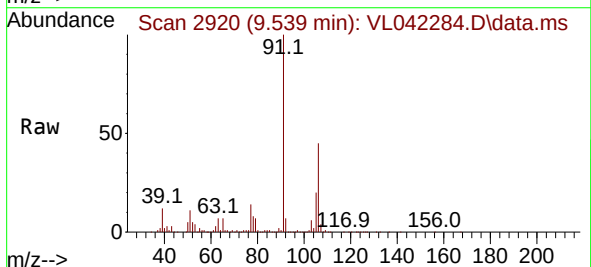
Manual Integrations
APPROVED

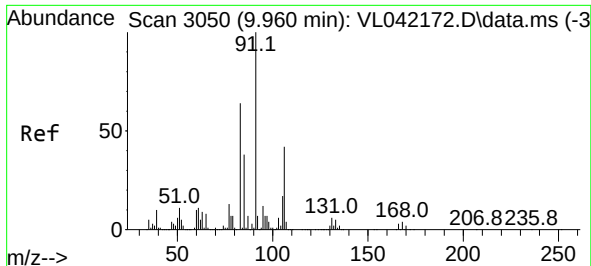
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#59
m/p-Xylene
Concen: 12.754 ppbv m
RT: 9.539 min Scan# 2920
Delta R.T. -0.010 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

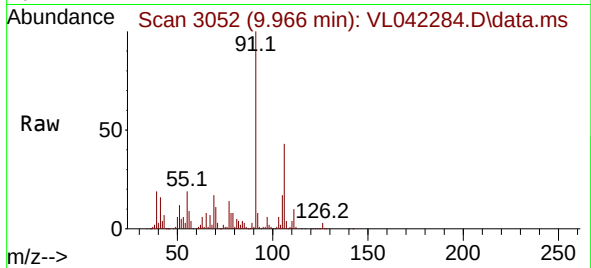
Tgt Ion: 91 Resp: 667927
Ion Ratio Lower Upper
91 100
106 45.6 36.4 54.6





#60
o-Xylene
Concen: 9.973 ppbv
RT: 9.966 min Scan# 3050
Delta R.T. 0.006 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

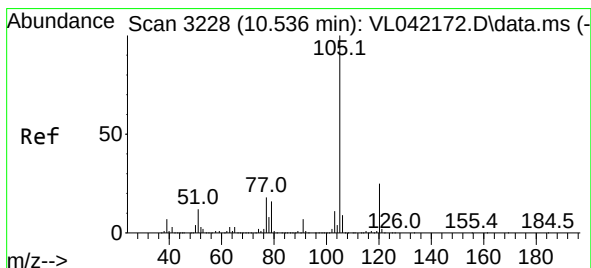
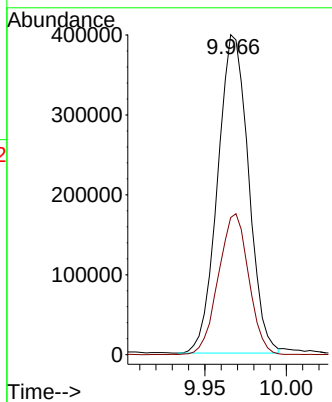
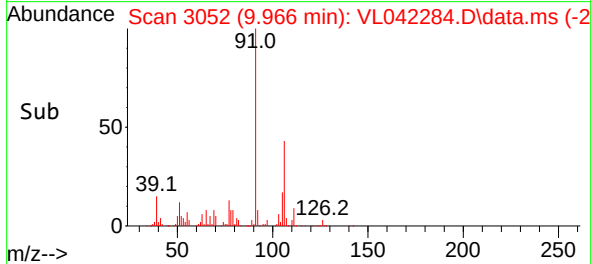
Instrument : MSVOA_L
ClientSampleId : SSSG-B2-2-04022025



Tgt Ion: 91 Resp: 52360
Ion Ratio Lower Upper
91 100
106 43.5 20.8 62.5

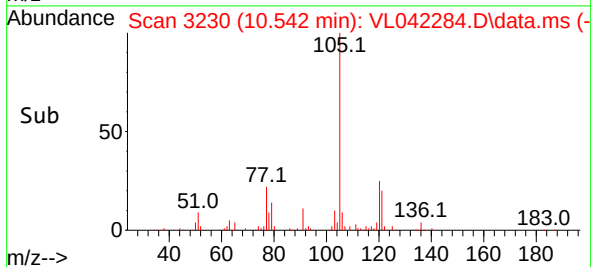
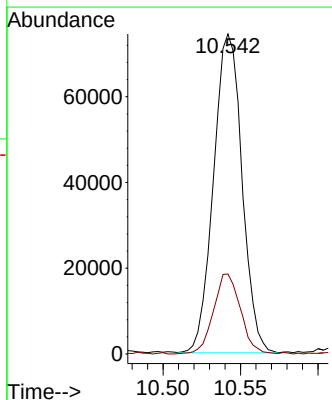
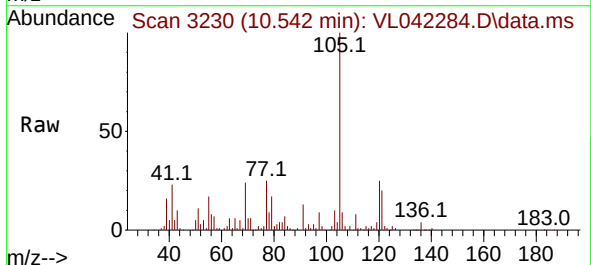
Manual Integrations
APPROVED

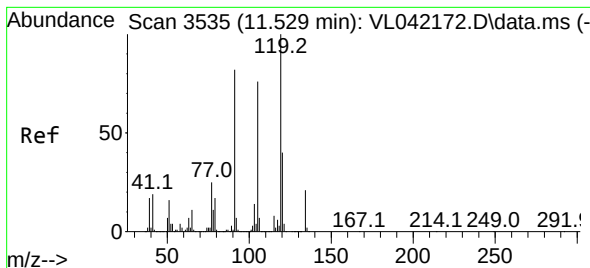
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#62
Isopropylbenzene
Concen: 1.211 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.006 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

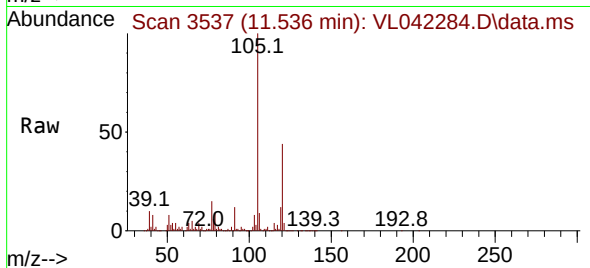
Tgt Ion:105 Resp: 95094
Ion Ratio Lower Upper
105 100
120 24.0 19.9 29.9





#65
tert-Butylbenzene
Concen: 0.606 ppbv
RT: 11.536 min Scan# 3535
Delta R.T. 0.006 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

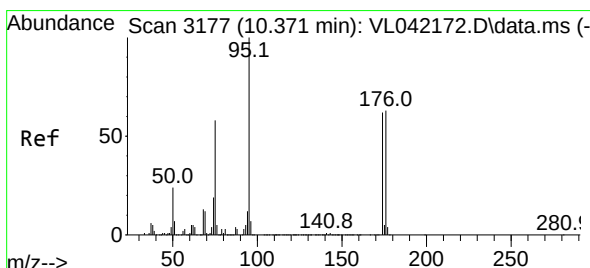
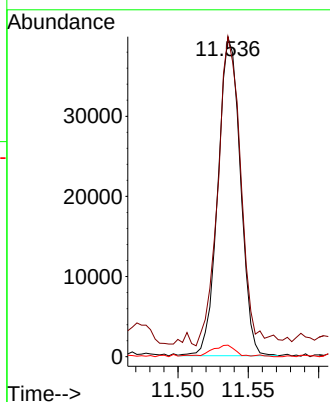
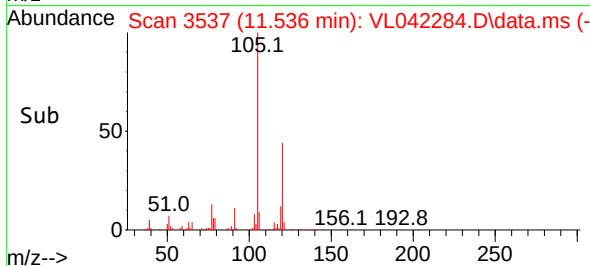
Instrument : MSVOA_L
ClientSampleId : SSSG-B2-2-04022025



Tgt Ion: 119 Resp: 44010
Ion Ratio Lower Upper
119 100
91 99.4 66.0 99.0
134 4.6 16.7 25.1

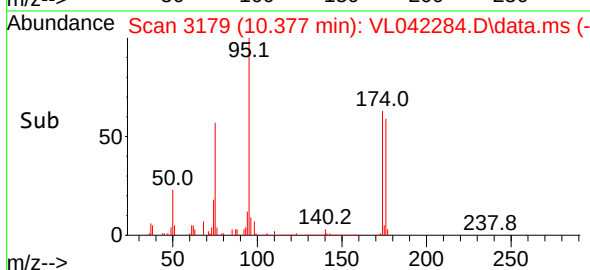
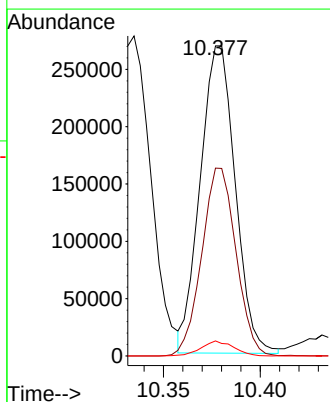
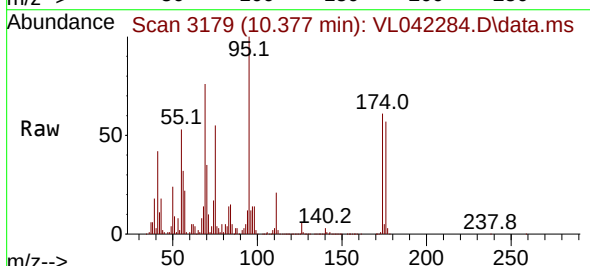
Manual Integrations
APPROVED

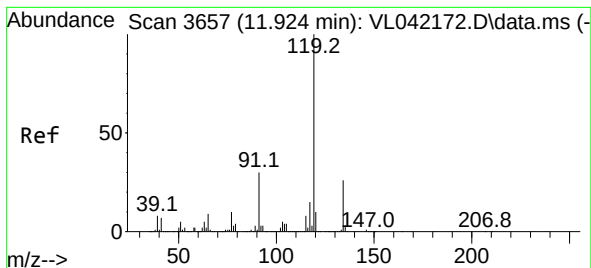
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 11.123 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

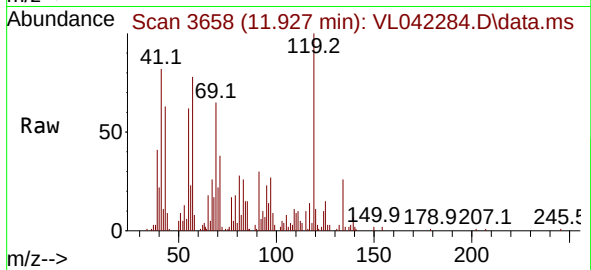
Tgt Ion: 95 Resp: 337277
Ion Ratio Lower Upper
95 100
174 60.0 50.6 76.0
175 4.6 3.8 5.6





#69
p-Isopropyltoluene
Concen: 0.126 ppbv
RT: 11.927 min Scan# 3011
Delta R.T. 0.003 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

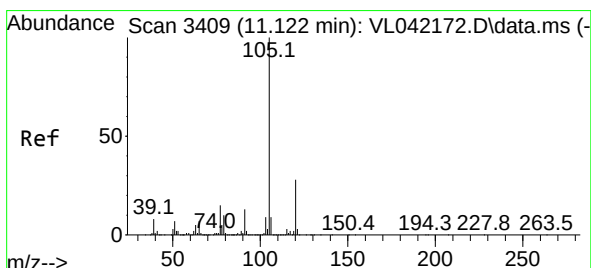
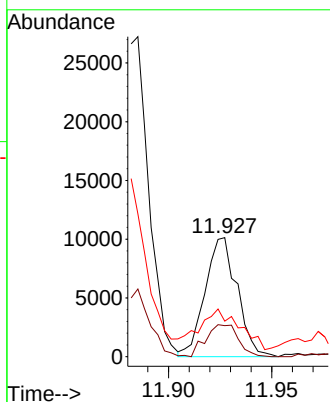
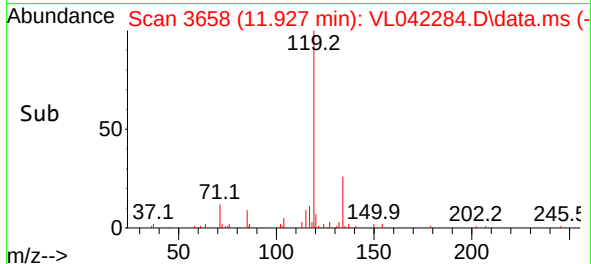
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025



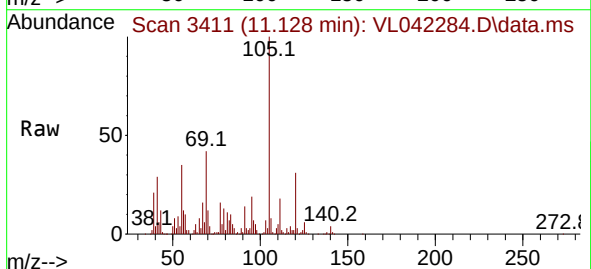
Tgt Ion:119 Resp: 10964
Ion Ratio Lower Upper
119 100
134 27.2 20.4 30.6
91 35.1 23.7 35.5

Manual Integrations
APPROVED

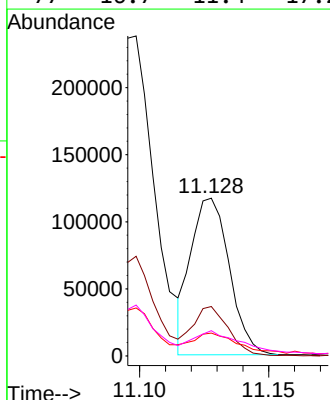
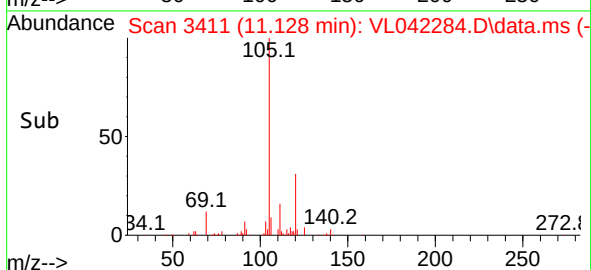
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

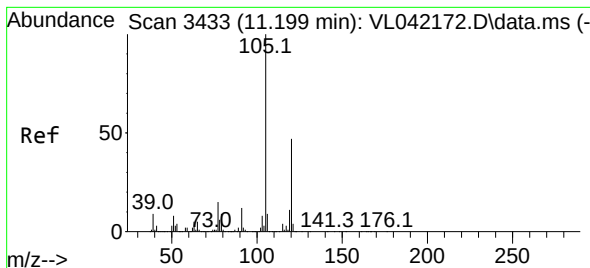


#72
4-Ethyltoluene
Concen: 1.852 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.006 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22



Tgt Ion:105 Resp: 121091
Ion Ratio Lower Upper
105 100
120 0.0 23.4 35.0#
91 0.0 10.3 15.5#
77 16.7 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 4.542 ppbv

RT: 11.205 min Scan# 3433

Delta R.T. 0.006 min

Lab File: VL042284.D

Acq: 09 Apr 2025 03:22

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-2-04022025

Tgt Ion:105 Resp: 259320

Ion Ratio Lower Upper

105 100

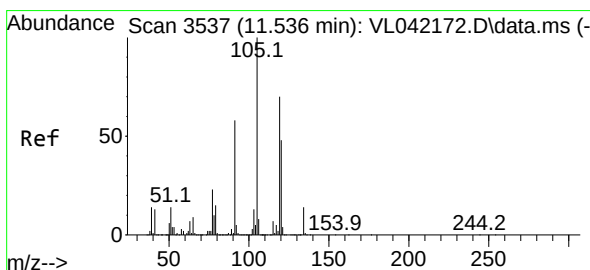
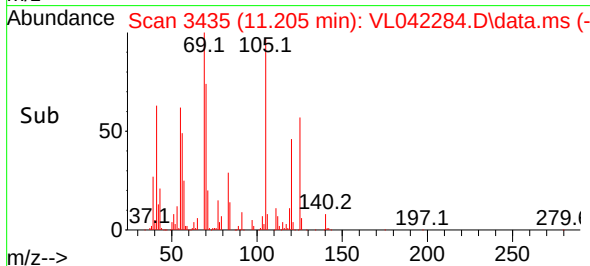
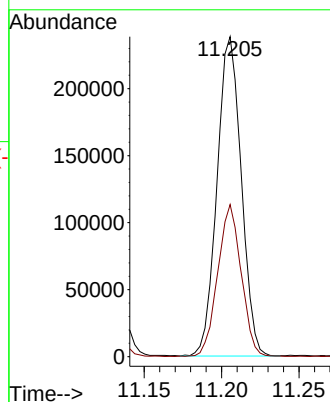
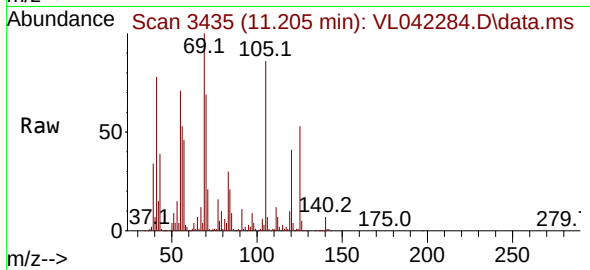
120 47.5 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025

Supervised By :Semsettin Yesilyurt 04/10/2025



#74

1,2,4-Trimethylbenzene

Concen: 5.340 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.003 min

Lab File: VL042284.D

Acq: 09 Apr 2025 03:22

Tgt Ion:105 Resp: 351232

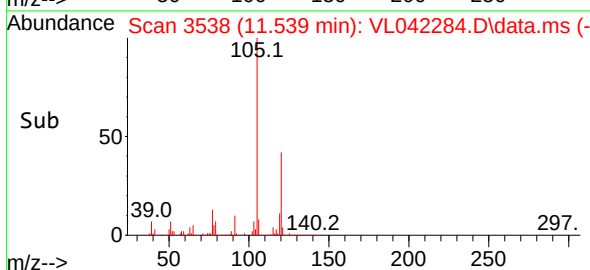
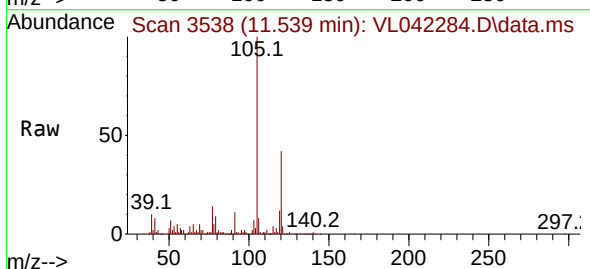
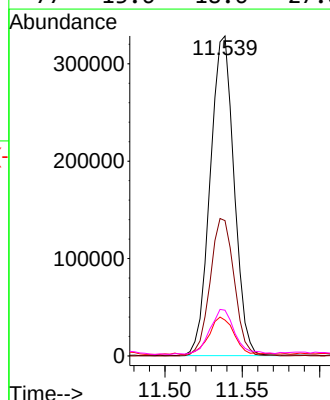
Ion Ratio Lower Upper

105 100

120 42.3 38.6 58.0

91 10.7 46.2 69.2#

77 13.6 18.6 27.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042284.D
 Acq On : 09 Apr 2025 03:22
 Operator : SY/MD
 Sample : Q1728-03 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-2-04022025

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: VL042284.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	410	415	420	rBV	3470942	3069305	9.99%	0.559%
2	2.787	823	834	843	rBV	560864	582258	1.90%	0.106%
3	3.285	977	988	1003	rVB	441373	612336	1.99%	0.112%
4	3.771	1123	1138	1154	rBV3	310666	518955	1.69%	0.095%
5	3.959	1182	1196	1210	rBV	690632	1056886	3.44%	0.193%
6	4.095	1214	1238	1250	rVV2	1840342	3456247	11.25%	0.630%
7	4.169	1250	1261	1276	rVV3	664604	1233026	4.01%	0.225%
8	4.269	1279	1292	1310	rVB2	207588	376941	1.23%	0.069%
9	4.444	1331	1346	1357	rBV2	604891	1138815	3.71%	0.208%
10	4.522	1357	1370	1384	rVV4	955445	2951456	9.61%	0.538%
11	4.596	1384	1393	1421	rVB2	1281877	2885997	9.39%	0.526%
12	5.668	1696	1724	1742	rBV2	3640651	10270538	33.43%	1.872%
13	5.794	1742	1763	1788	rVB4	5044440	14664734	47.74%	2.673%
14	6.211	1849	1892	1903	rBV2	5185800	15827935	51.52%	2.885%
15	6.283	1903	1914	1936	rVB	4559613	11868325	38.63%	2.163%
16	6.480	1954	1975	1983	rBV	4527895	11752170	38.25%	2.142%
17	6.532	1983	1991	2016	rVB	3878534	9063934	29.50%	1.652%
18	6.732	2033	2053	2069	rBV	5098037	11957217	38.92%	2.179%
19	6.826	2069	2082	2102	rVB2	1307089	2883043	9.38%	0.525%
20	6.959	2104	2123	2143	rVB3	1039000	2312096	7.53%	0.421%
21	7.202	2177	2198	2220	rBV	9452561	26946224	87.71%	4.911%
22	7.467	2260	2280	2292	rVV2	4715281	12810166	41.70%	2.335%
23	7.532	2292	2300	2313	rVV	1086525	2349170	7.65%	0.428%
24	7.642	2313	2334	2342	rVV6	11365262	30720881	100.00%	5.599%
25	7.690	2342	2349	2371	rVB	9978088	17580319	57.23%	3.204%
26	7.830	2373	2392	2403	rBV	6072167	11473471	37.35%	2.091%
27	7.907	2403	2416	2432	rVV2	4240339	11372934	37.02%	2.073%
28	7.988	2432	2441	2445	rVV	2047416	3535035	11.51%	0.644%
29	8.021	2445	2451	2460	rVV	3024622	5251461	17.09%	0.957%
30	8.072	2460	2467	2477	rVV3	1430682	2613092	8.51%	0.476%
31	8.153	2477	2492	2507	rVB	13679304	27644483	89.99%	5.038%
32	8.325	2522	2545	2564	rVB4	9702508	20099293	65.43%	3.663%
33	8.503	2569	2600	2611	rBV5	2039173	4405552	14.34%	0.803%
34	8.642	2633	2643	2650	rBV	1515727	2372942	7.72%	0.432%
35	8.697	2650	2660	2668	rVV	3299365	5474292	17.82%	0.998%
36	8.733	2668	2671	2676	rVV	542425	687994	2.24%	0.125%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042284.D
 Acq On : 09 Apr 2025 03:22
 Operator : SY/MD
 Sample : Q1728-03 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-2-04022025

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	8.778	2676	2685	2701	rVB	4894397	8592498	27.97%	1.566%
38	8.875	2701	2715	2740	rBV4	9993424	22743328	74.03%	4.145%
39	8.995	2740	2752	2757	rVV2	12372638	23488214	76.46%	4.281%
40	9.021	2757	2760	2770	rVV	11000929	16322499	53.13%	2.975%
41	9.066	2770	2774	2779	rVV3	707860	1040497	3.39%	0.190%
42	9.118	2779	2790	2796	rVV	11407794	19797239	64.44%	3.608%
43	9.163	2796	2804	2811	rVV	13749305	26752209	87.08%	4.876%
44	9.195	2811	2814	2825	rVV	5725806	8582775	27.94%	1.564%
45	9.247	2825	2830	2851	rVB3	2502419	5547563	18.06%	1.011%
46	9.390	2851	2874	2879	rBV2	4979201	9780069	31.84%	1.782%
47	9.429	2879	2886	2894	rVV2	7915549	12235399	39.83%	2.230%
48	9.474	2894	2900	2904	rVV3	634662	907283	2.95%	0.165%
49	9.500	2904	2908	2913	rVV	567212	659976	2.15%	0.120%
50	9.535	2913	2919	2921	rVV	776385	806995	2.63%	0.147%
51	9.571	2921	2930	2937	rVV	5376854	8655184	28.17%	1.577%
52	9.616	2937	2944	2951	rVV	2733465	5110759	16.64%	0.931%
53	9.662	2951	2958	2968	rVV2	4886801	7267952	23.66%	1.325%
54	9.700	2968	2970	2991	rVB5	344576	652488	2.12%	0.119%
55	9.823	2991	3008	3015	rBV7	1280323	3323186	10.82%	0.606%
56	9.869	3015	3022	3028	rVV	2364152	3546471	11.54%	0.646%
57	9.898	3028	3031	3039	rVV2	931647	1349445	4.39%	0.246%
58	9.963	3039	3051	3056	rVV4	1637876	3578124	11.65%	0.652%
59	9.998	3056	3062	3080	rVB3	2579248	5026662	16.36%	0.916%
60	10.105	3080	3095	3102	rBV2	3605410	7895339	25.70%	1.439%
61	10.150	3102	3109	3126	rVB6	3546089	6481398	21.10%	1.181%
62	10.218	3126	3130	3146	rVB6	272290	607480	1.98%	0.111%
63	10.335	3149	3166	3173	rBV2	1566640	2846144	9.26%	0.519%
64	10.377	3173	3179	3189	rVV2	2181989	3074031	10.01%	0.560%
65	10.435	3189	3197	3206	rVV3	3607555	5040736	16.41%	0.919%
66	10.480	3206	3211	3223	rVB2	1290189	1787049	5.82%	0.326%
67	10.545	3223	3231	3235	rBV3	314720	453442	1.48%	0.083%
68	10.581	3235	3242	3246	rVV	447376	484912	1.58%	0.088%
69	10.613	3246	3252	3256	rVV	2213406	2843453	9.26%	0.518%
70	10.636	3256	3259	3266	rVV	1700125	2083105	6.78%	0.380%
71	10.665	3266	3268	3274	rVV3	429128	404981	1.32%	0.074%
72	10.710	3274	3282	3290	rVB4	918295	1333070	4.34%	0.243%
73	10.775	3290	3302	3304	rBV3	747683	1054360	3.43%	0.192%
74	10.801	3304	3310	3315	rVV	2054291	2594180	8.44%	0.473%
75	10.830	3315	3319	3324	rVV2	943942	1150728	3.75%	0.210%
76	10.856	3324	3327	3334	rVV4	558120	683750	2.23%	0.125%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042284.D
Acq On : 09 Apr 2025 03:22
Operator : SY/MD
Sample : Q1728-03 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

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

77	10.904	3334	3342	3346	rVV	1020521	1361135	4.43%	0.248%
78	10.927	3346	3349	3364	rVV8	777161	1564696	5.09%	0.285%
79	11.011	3364	3375	3383	rVB6	2009882	3561463	11.59%	0.649%
80	11.066	3383	3392	3395	rBV8	276783	422059	1.37%	0.077%
81	11.099	3395	3402	3407	rVV2	685592	815397	2.65%	0.149%
82	11.134	3407	3413	3422	rVB5	662630	1004102	3.27%	0.183%
83	11.205	3422	3435	3442	rBV2	2666849	3509247	11.42%	0.640%
84	11.254	3442	3450	3454	rBV4	324192	405293	1.32%	0.074%
85	11.283	3454	3459	3471	rVB7	317615	556256	1.81%	0.101%
86	11.341	3471	3477	3483	rBV2	397373	549257	1.79%	0.100%
87	11.426	3490	3503	3511	rBV9	503277	1067683	3.48%	0.195%
88	11.471	3511	3517	3524	rVB2	500757	637686	2.08%	0.116%
89	11.539	3530	3538	3542	rBV	899732	1134108	3.69%	0.207%
90	11.555	3542	3543	3551	rVV	511093	510864	1.66%	0.093%
91	11.594	3551	3555	3564	rVB5	318539	432535	1.41%	0.079%
92	11.769	3601	3609	3616	rVB8	247510	446469	1.45%	0.081%
93	12.040	3688	3693	3705	rVB4	199028	313322	1.02%	0.057%

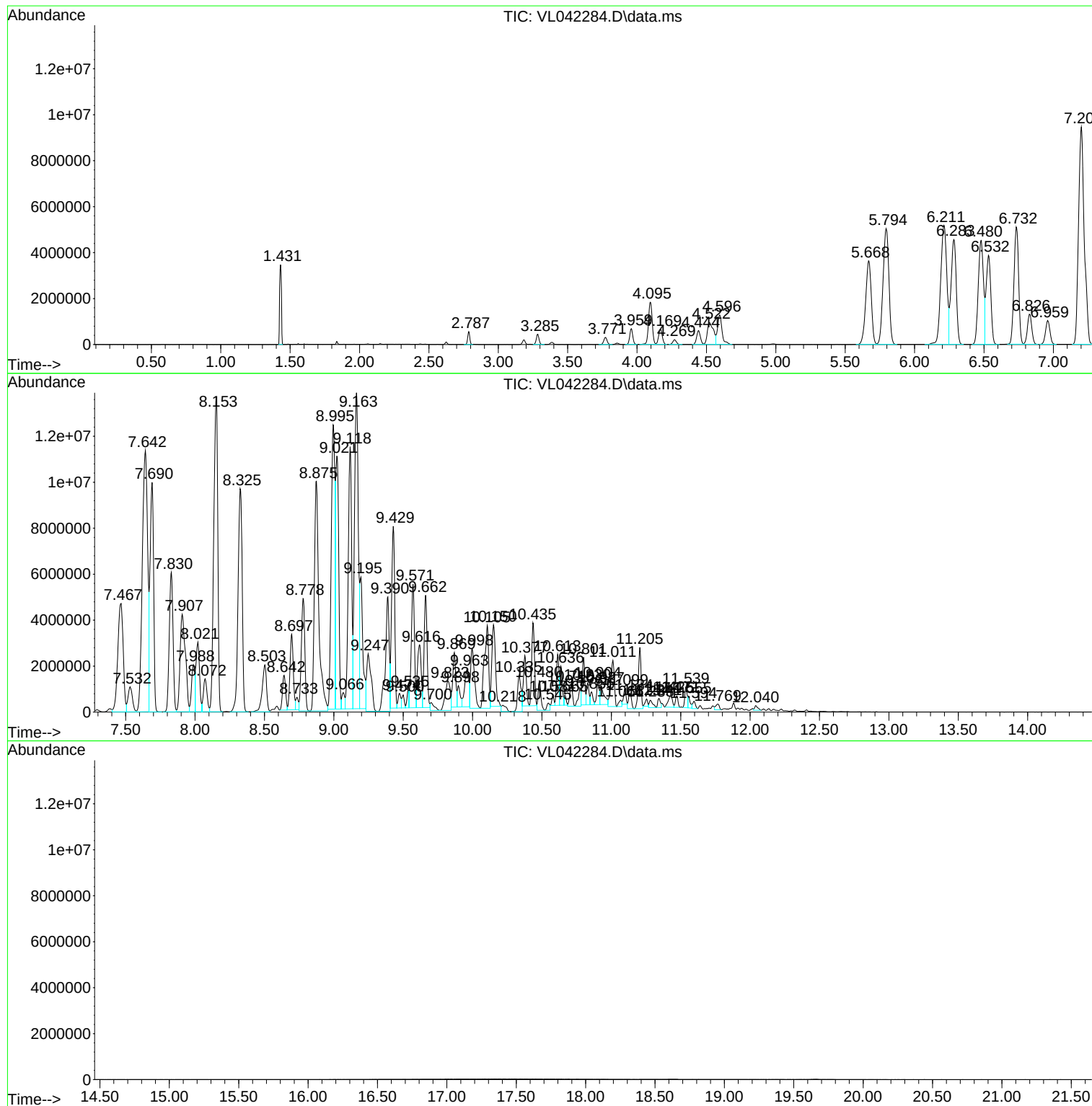
Sum of corrected areas: 548696068

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042284.D
Acq On : 09 Apr 2025 03:22
Operator : SY/MD
Sample : Q1728-03 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

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 : VL042284.D
Acq On : 09 Apr 2025 03:22
Operator : SY/MD
Sample : Q1728-03 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

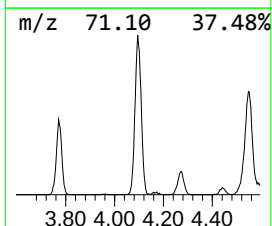
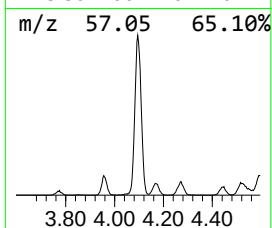
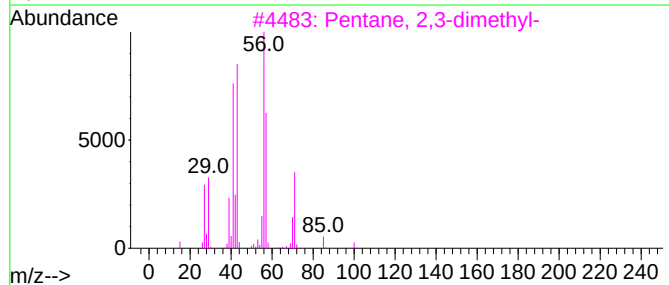
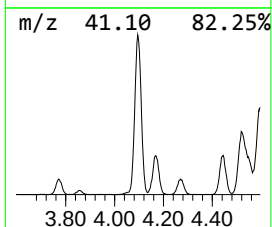
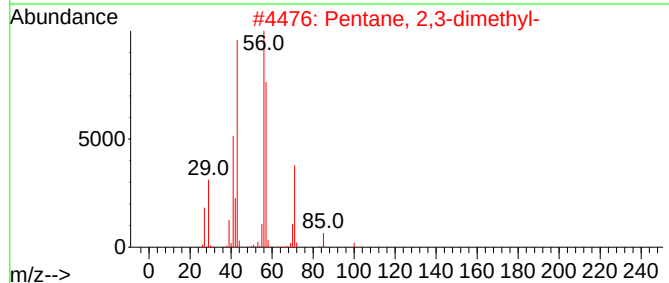
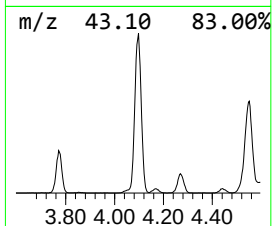
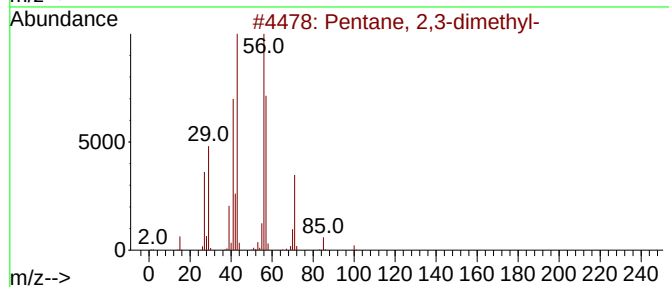
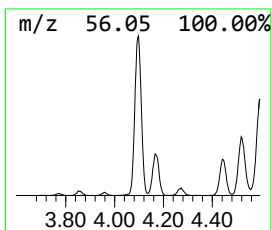
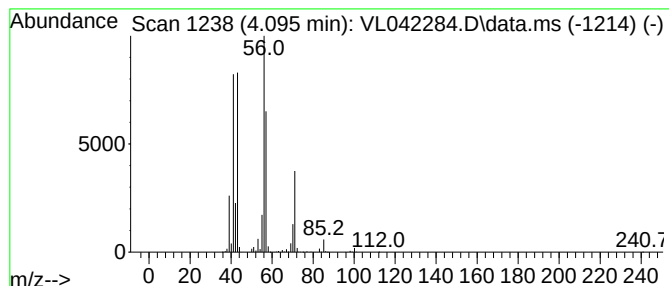
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 2 Pentane, 2,3-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.095	32.70 ppbv	3456250	1,4-Difluorobenzene	3.959

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
2			Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3			Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4			Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	90
5			Oxirane, (1-methylethyl)-	86	C5H10O	001438-14-8	50



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042284.D
Acq On : 09 Apr 2025 03:22
Operator : SY/MD
Sample : Q1728-03 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

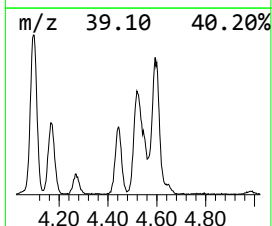
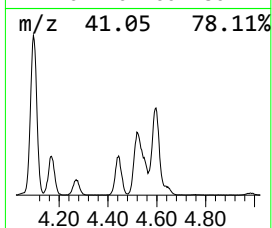
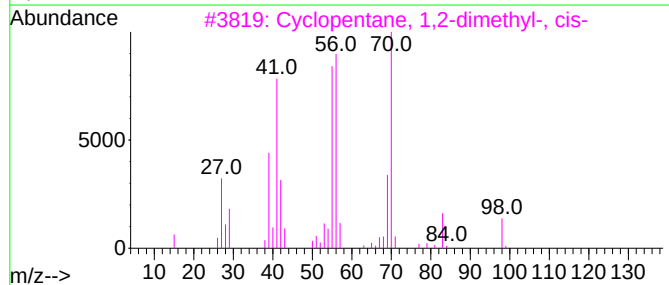
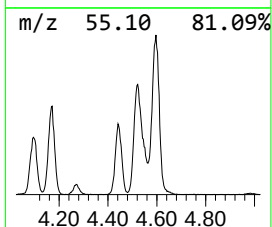
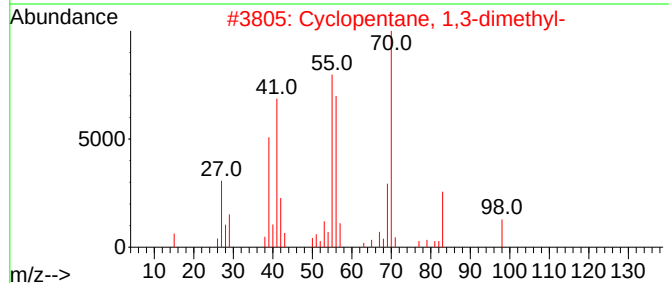
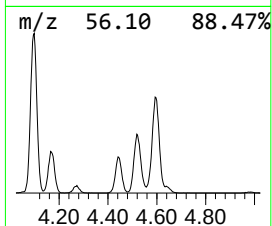
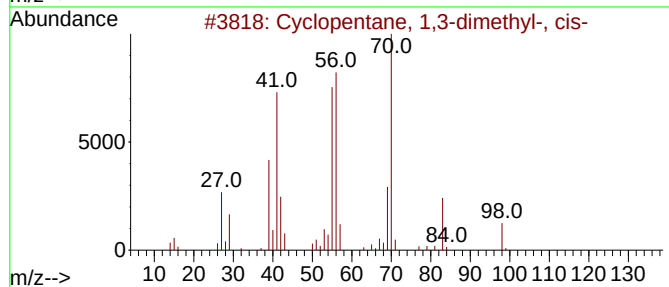
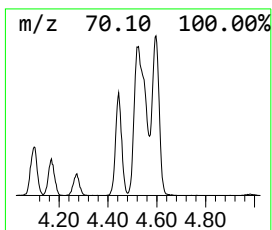
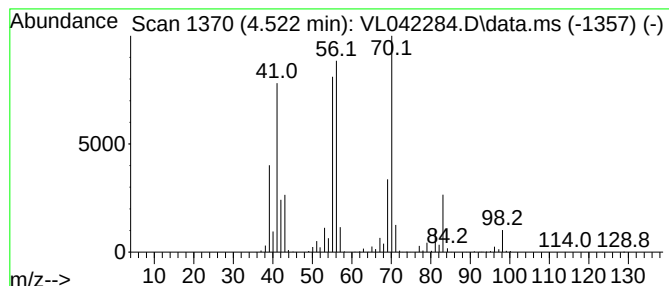
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 3 Cyclopentane, 1,3-dimethyl-... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.522	27.93 ppbv	2951460	1,4-Difluorobenzene	3.959

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	97
2			Cyclopentane, 1,3-dimethyl-	98	C7H14	002453-00-1	93
3			Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	90
4			Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	81
5			Cyclopentane, 1,3-dimethyl-	98	C7H14	002453-00-1	76



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042284.D
Acq On : 09 Apr 2025 03:22
Operator : SY/MD
Sample : Q1728-03 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

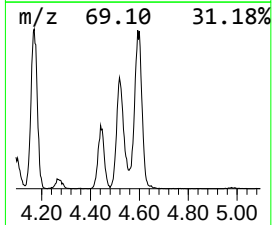
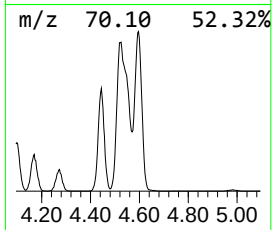
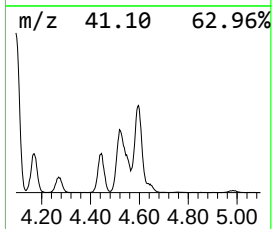
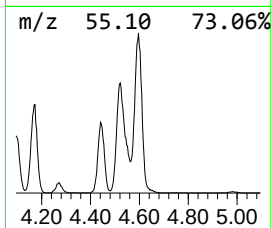
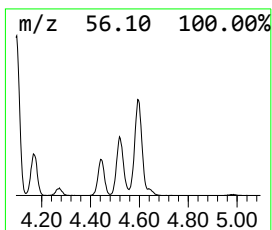
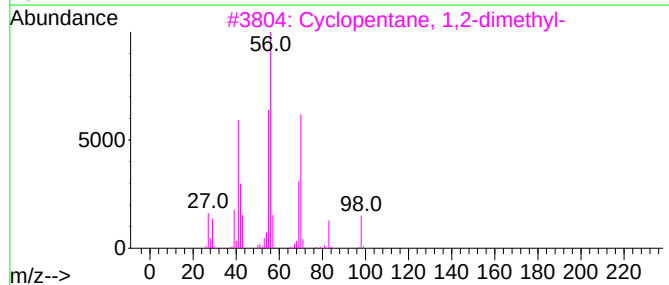
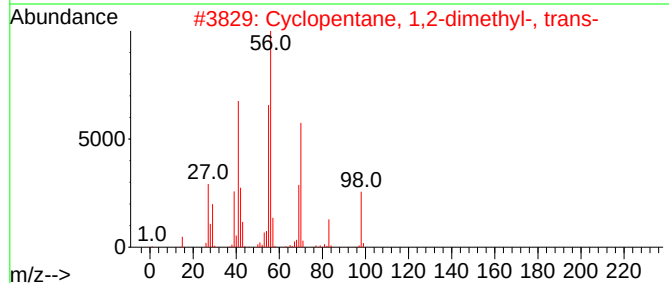
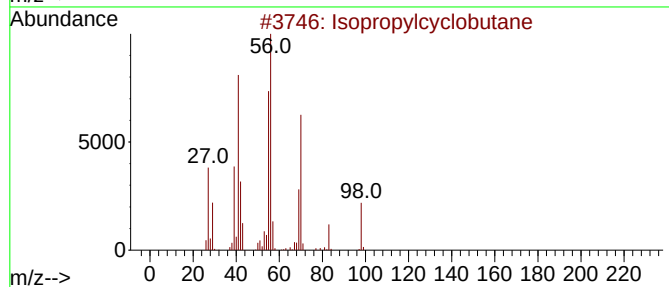
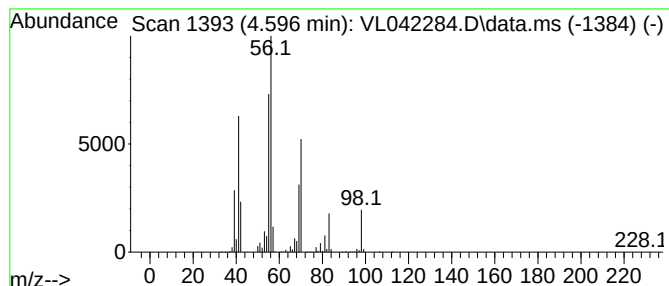
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 4 Isopropylcyclobutane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.596	27.31 ppbv	2886000	1,4-Difluorobenzene	3.959

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Isopropylcyclobutane	98	C7H14	000872-56-0	94
2			Cyclopentane, 1,2-dimethyl-, trans-	98	C7H14	000822-50-4	91
3			Cyclopentane, 1,2-dimethyl-	98	C7H14	002452-99-5	78
4			5-Methyl-2-hexene,c&t	98	C7H14	003404-62-4	72
5			1-Heptene	98	C7H14	000592-76-7	72



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042284.D
Acq On : 09 Apr 2025 03:22
Operator : SY/MD
Sample : Q1728-03 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

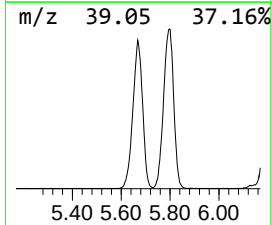
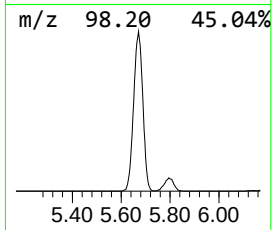
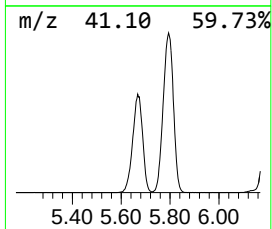
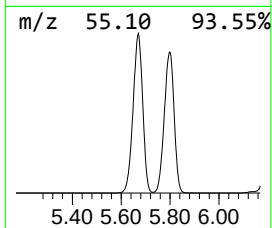
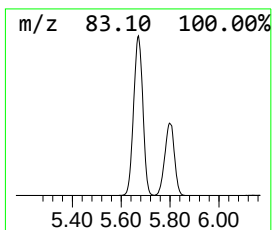
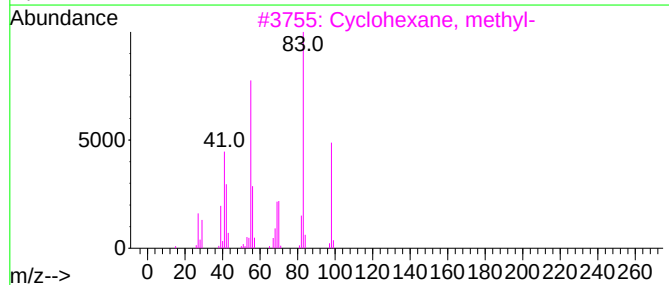
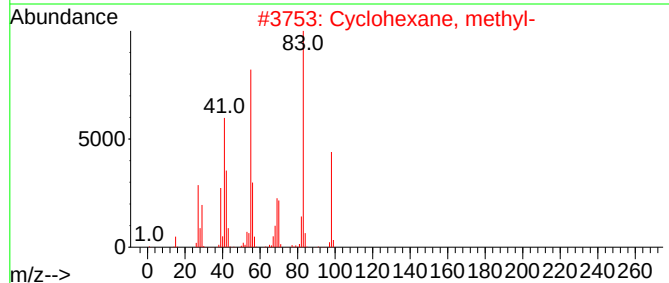
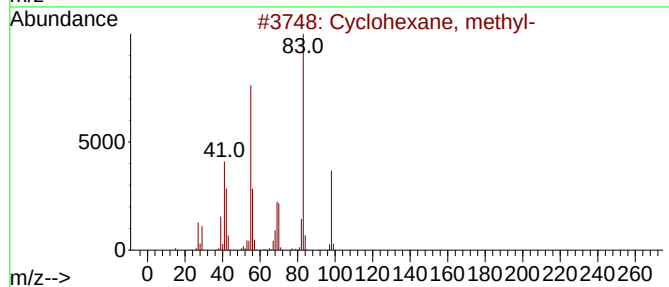
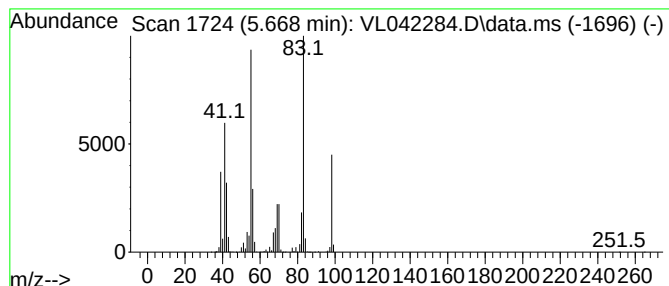
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 5 Cyclohexane, methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.668	97.18 ppbv	10270500	1,4-Difluorobenzene	3.959

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclohexane, methyl-	98	C7H14	000108-87-2	97
2			Cyclohexane, methyl-	98	C7H14	000108-87-2	96
3			Cyclohexane, methyl-	98	C7H14	000108-87-2	96
4			Cyclohexane, methyl-	98	C7H14	000108-87-2	96
5			2-Pentene, 3,4-dimethyl-, (E)-	98	C7H14	004914-92-5	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042284.D
Acq On : 09 Apr 2025 03:22
Operator : SY/MD
Sample : Q1728-03 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

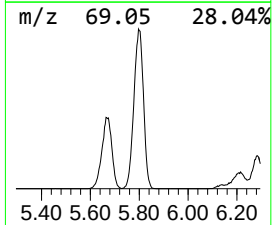
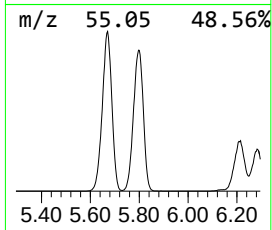
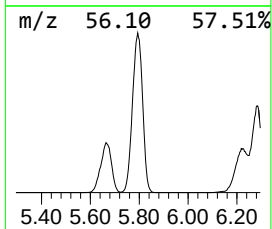
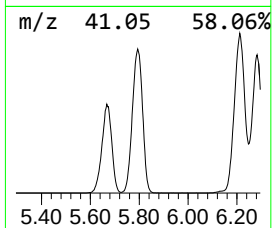
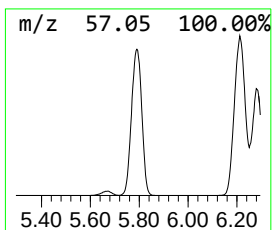
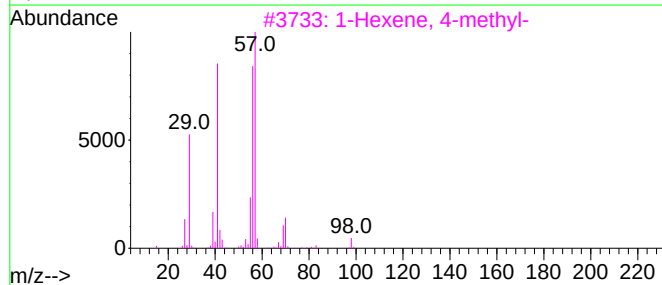
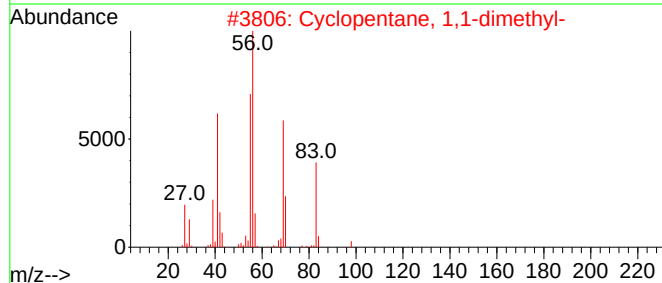
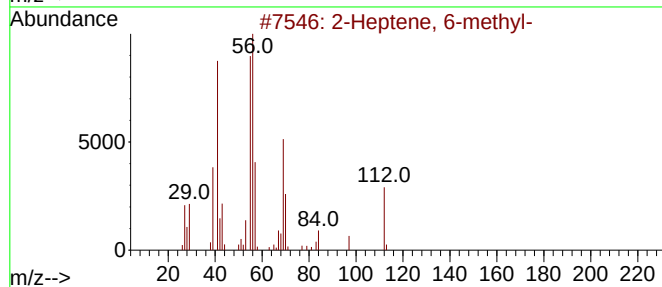
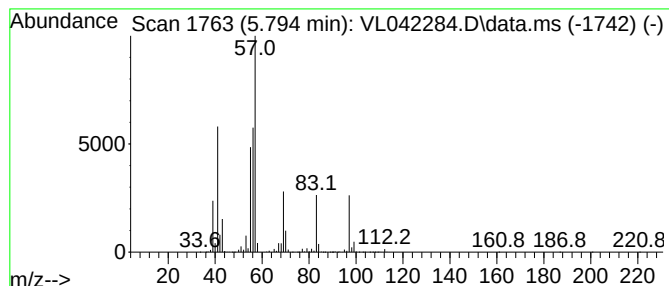
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 6 unknown5.794 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.794	138.75 ppbv	14664700	1,4-Difluorobenzene	3.959

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Heptene, 6-methyl-		112	C8H16	073548-72-8	47
2	Cyclopentane, 1,1-dimethyl-		98	C7H14	001638-26-2	43
3	1-Hexene, 4-methyl-		98	C7H14	003769-23-1	43
4	Pentane, 2,4-dimethyl-2-nitro-		145	C7H15NO2	000597-45-5	42
5	2-Heptene		98	C7H14	000592-77-8	38



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042284.D
Acq On : 09 Apr 2025 03:22
Operator : SY/MD
Sample : Q1728-03 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

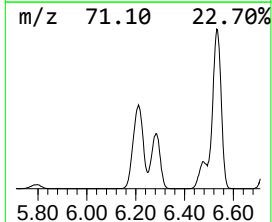
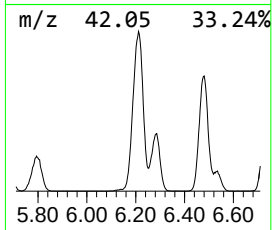
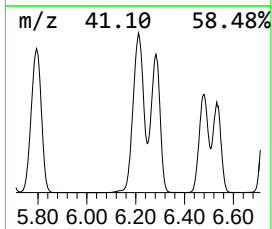
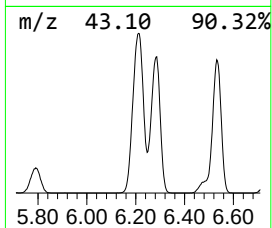
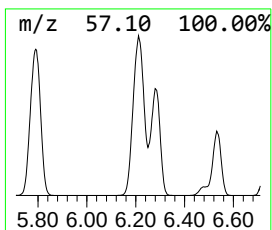
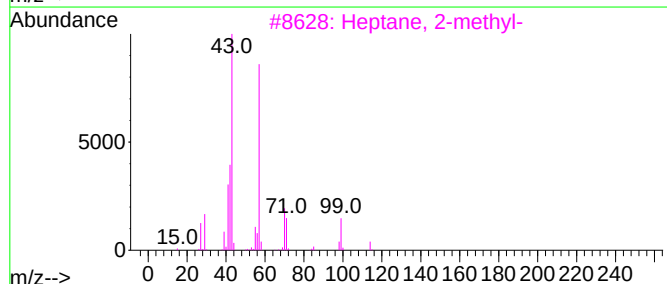
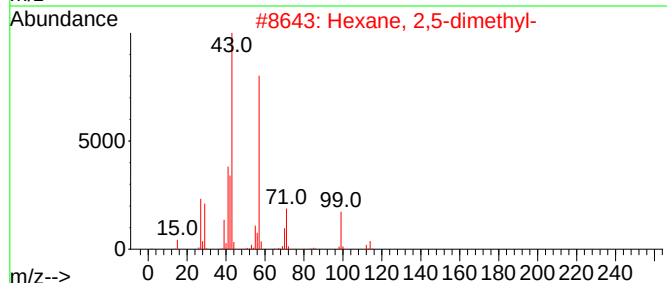
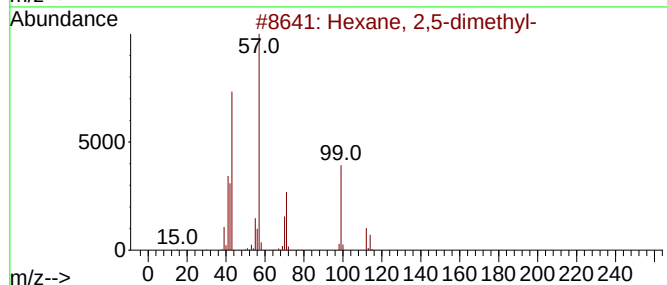
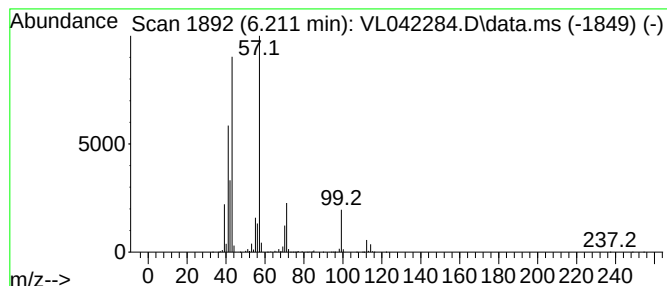
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 7 Hexane, 2,5-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.211	149.76 ppbv	15827900	1,4-Difluorobenzene	3.959

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	94
2			Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	91
3			Heptane, 2-methyl-	114	C8H18	000592-27-8	72
4			Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	52
5			2-Isopropyl-4H-oxazol-5-one	127	C6H9NO2	1000190-01-9	50



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042284.D
Acq On : 09 Apr 2025 03:22
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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

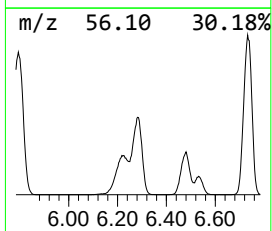
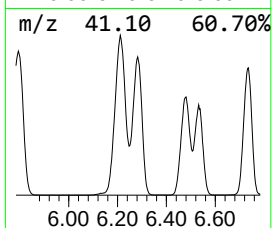
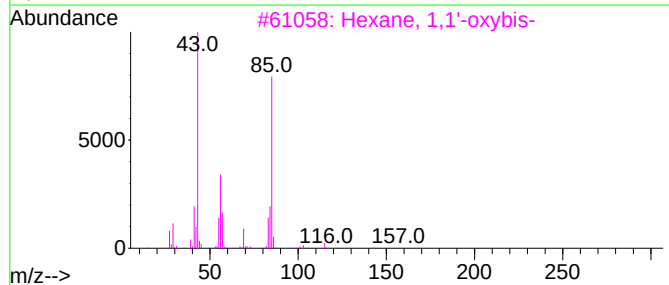
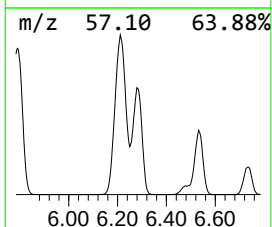
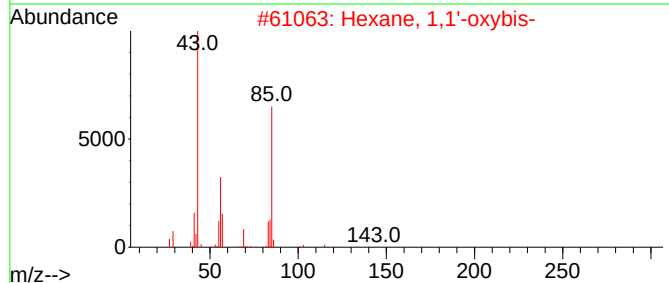
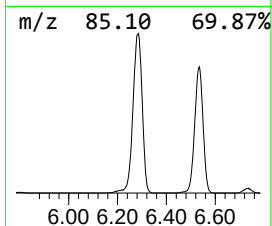
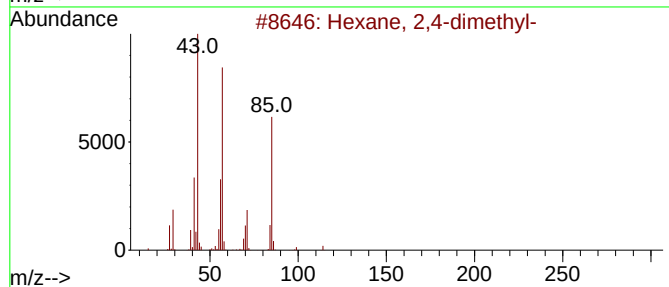
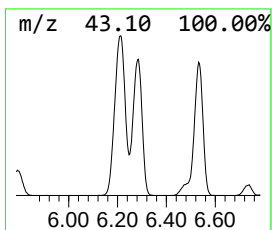
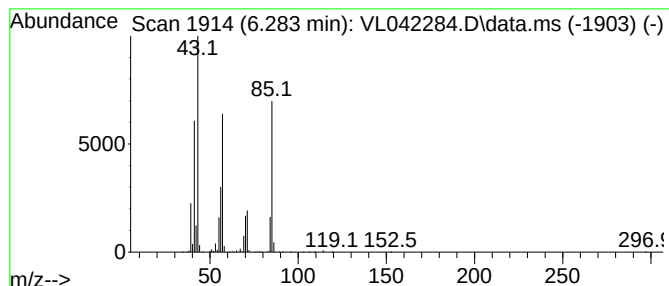
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 8 Hexane, 2,4-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.283	112.30 ppbv	11868300	1,4-Difluorobenzene	3.959

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	78
2			Hexane, 1,1'-oxybis-	186	C12H26O	000112-58-3	59
3			Hexane, 1,1'-oxybis-	186	C12H26O	000112-58-3	59
4			Hexane, 2,2,3,3-tetramethyl-	142	C10H22	013475-81-5	53
5			Nonane, 5-methyl-	142	C10H22	015869-85-9	53



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042284.D
Acq On : 09 Apr 2025 03:22
Operator : SY/MD
Sample : Q1728-03 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

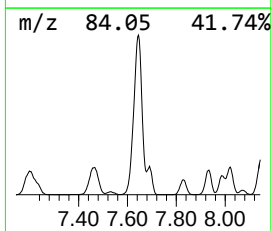
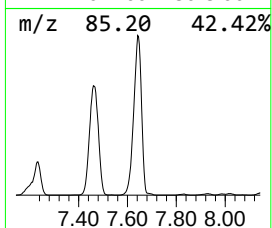
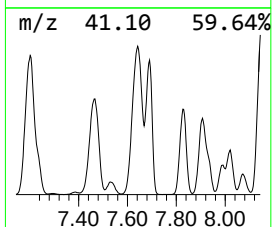
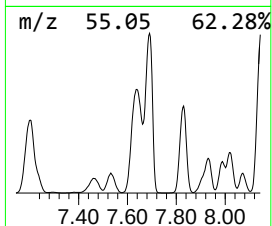
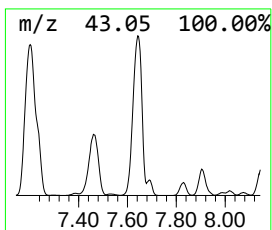
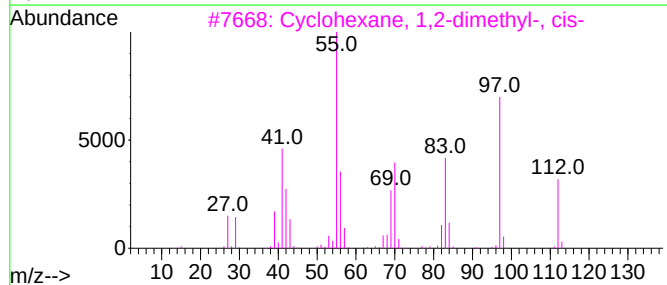
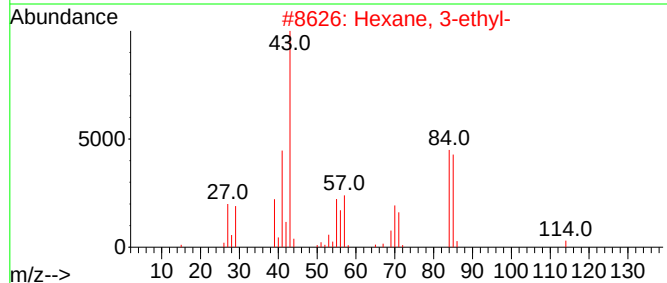
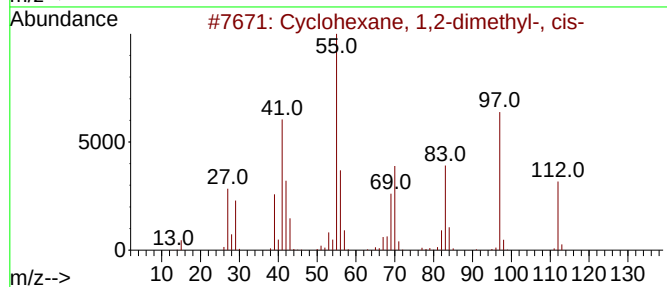
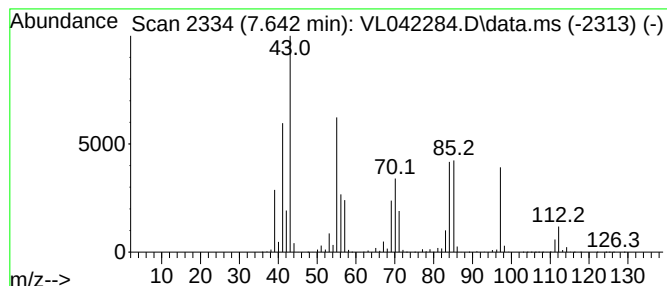
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 9 unknown7.642 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.642	13.51 ppbv	30720900	Chlorobenzene-d5	8.885

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	49
2			Hexane, 3-ethyl-	114	C8H18	000619-99-8	49
3			Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	46
4			2-Octene	112	C8H16	000111-67-1	30
5			2-Octene, (E)-	112	C8H16	013389-42-9	30



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042284.D
Acq On : 09 Apr 2025 03:22
Operator : SY/MD
Sample : Q1728-03 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

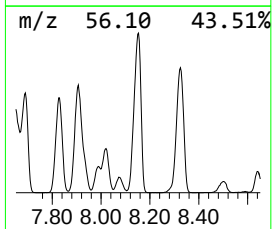
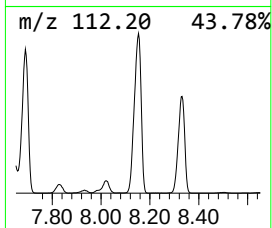
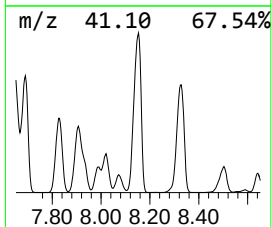
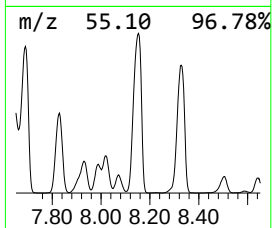
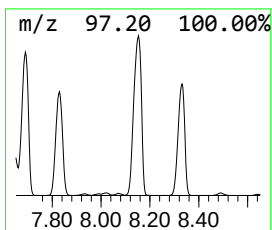
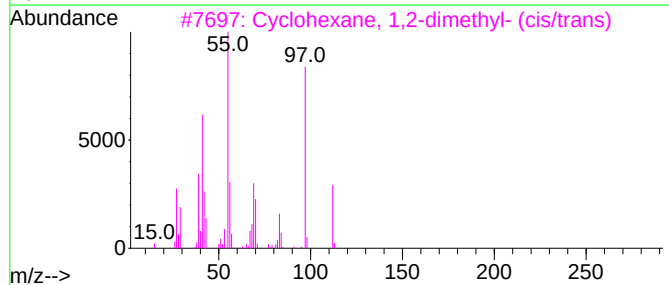
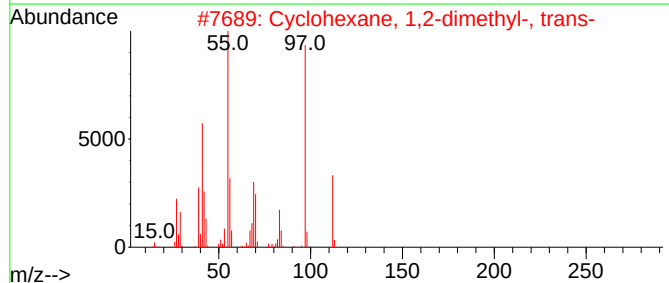
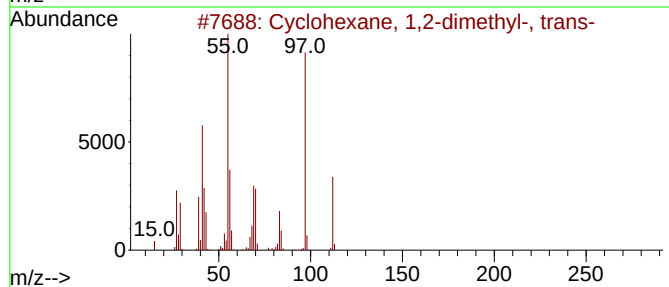
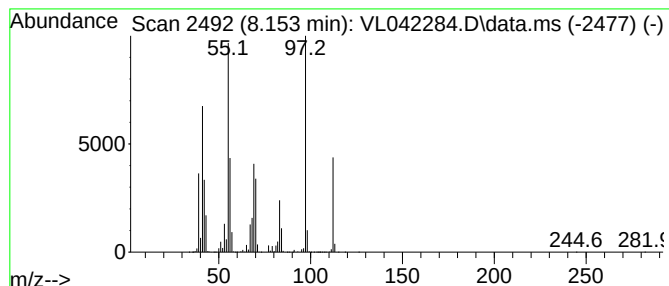
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 10 Cyclohexane, 1,2-dimethyl-,... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.153	12.15 ppbv	27644500	Chlorobenzene-d5	8.885

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
2		Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
3		Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	95
4		Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	93
5		Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	90



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042284.D
Acq On : 09 Apr 2025 03:22
Operator : SY/MD
Sample : Q1728-03 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

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
Pentane, 2,3-di...	4.095	32.7	ppbv	3456250	2	3.959	1056890	10.0
Cyclopentane, 1...	4.522	27.9	ppbv	2951460	2	3.959	1056890	10.0
Isopropylcyclob...	4.596	27.3	ppbv	2886000	2	3.959	1056890	10.0
Cyclohexane, me...	5.668	97.2	ppbv	10270500	2	3.959	1056890	10.0
unknown5.794	5.794	138.8	ppbv	14664700	2	3.959	1056890	10.0
Hexane, 2,5-dim...	6.211	149.8	ppbv	15827900	2	3.959	1056890	10.0
Hexane, 2,4-dim...	6.283	112.3	ppbv	11868300	2	3.959	1056890	10.0
unknown7.642	7.642	13.5	ppbv	30720900	3	8.885	22743300	10.0
Cyclohexane, 1,...	8.153	12.2	ppbv	27644500	3	8.885	22743300	10.0

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/02/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B2-7-04022025	SDG No.:	Q1728
Lab Sample ID:	Q1728-04	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
VL042279.D	4		04/09/25 00:46	VL040825

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	0.79	1.63	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	3.10	9.40		2.30	6.06	ug/m3
142-82-5	Heptane	1.20	4.92	J	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	260	618	E	2.28	4.75	ug/m3
75-15-0	Carbon Disulfide	11.0	34.3		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	3.90	13.6		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	15.8	46.6		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	0.41	2.00	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	3.00	14.0		1.87	9.34	ug/m3
71-43-2	Benzene	4.10	13.1		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	2.30	9.43		1.52	8.20	ug/m3
108-88-3	Toluene	14.4	54.3		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:	04/02/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B2-7-04022025	SDG No.:	Q1728
Lab Sample ID:	Q1728-04	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
VL042279.D	4		04/09/25 00:46	VL040825

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	0.060	0.41	U	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	0.75	3.26	J	2.08	8.69	ug/m3
179601-23-1	m/p-Xylene	2.60	11.3	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	0.78	3.32	J	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	2.10	7.40		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	9.10		70 (65) - 130 (135)	91%	SPK: 10

INTERNAL STANDARDS

74-97-5	Bromochloromethane	154000	2.791
540-36-3	1,4-Difluorobenzene	392000	3.966
3114-55-4	Chlorobenzene-d5	377000	8.885

TENTATIVE IDENTIFIED COMPOUNDS

115-07-1	Propene	6.90	J	1.49	ppbv
000115-11-7	1-Propene, 2-methyl-	5.20	J	1.60	ppbv
64-17-5	Ethanol	140	J	1.72	ppbv

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/02/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B2-7-04022025	SDG No.:	Q1728
Lab Sample ID:	Q1728-04	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
VL042279.D	4		04/09/25 00:46	VL040825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
67-63-0	Isopropyl Alcohol	14.0		J		1.89	ppbv
000107-83-5	Pentane, 2-methyl-	4.00		J		2.48	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 : VL042279.D
 Acq On : 09 Apr 2025 00:46
 Operator : SY/MD
 Sample : Q1728-04 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-7-04022025

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
 Supervised By :Semsettin Yesilyurt 04/10/2025

Quant Time: Apr 09 07:55:28 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	2.791	49	154351	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.966	114	392096	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.885	117	376954	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.381	95	281576	9.096	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	2923	0.128	ppbv #	79
4) Chloromethane	1.535	50	1839	0.197	ppbv	94
9) Propene	1.486	41	18452	1.729	ppbv	87
10) Heptane	4.988	43	8556	0.301	ppbv	97
13) Ethanol	1.723	45	35645	35.335	ppbv	84
15) Acetone	1.836	43	1394020	64.577	ppbv	95
17) tert-Butyl alcohol	2.046	59	20709	0.770	ppbv	96
19) Isopropyl Alcohol	1.888	45	42662	3.503	ppbv #	30
20) Methylene Chloride	2.066	84	7869	0.979	ppbv	92
26) Hexane	2.829	57	11117	0.514	ppbv #	36
27) Carbon Disulfide	2.153	76	63719	2.746	ppbv #	86
29) Chloroform	2.852	83	3242	0.102	ppbv	84
30) Cyclohexane	3.862	84	2776	0.148	ppbv #	65
34) 2-Butanone	2.564	43	112551	3.959	ppbv	100
36) Benzene	3.661	78	39414	1.014	ppbv	96
44) 2,2,4-Trimethylpentane	4.648	57	48596	0.740	ppbv #	79
50) 4-Methyl-2-Pentanone	5.781	43	26080m	0.579	ppbv	
53) Toluene	6.940	91	166042	3.603	ppbv	98
58) Ethyl Benzene	9.358	91	12588	0.188	ppbv #	83
59) m/p-Xylene	9.536	91	34249	0.641	ppbv	99
60) o-Xylene	9.966	91	11082	0.207	ppbv	97
61) Styrene	9.872	104	5155	0.194	ppbv	97

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

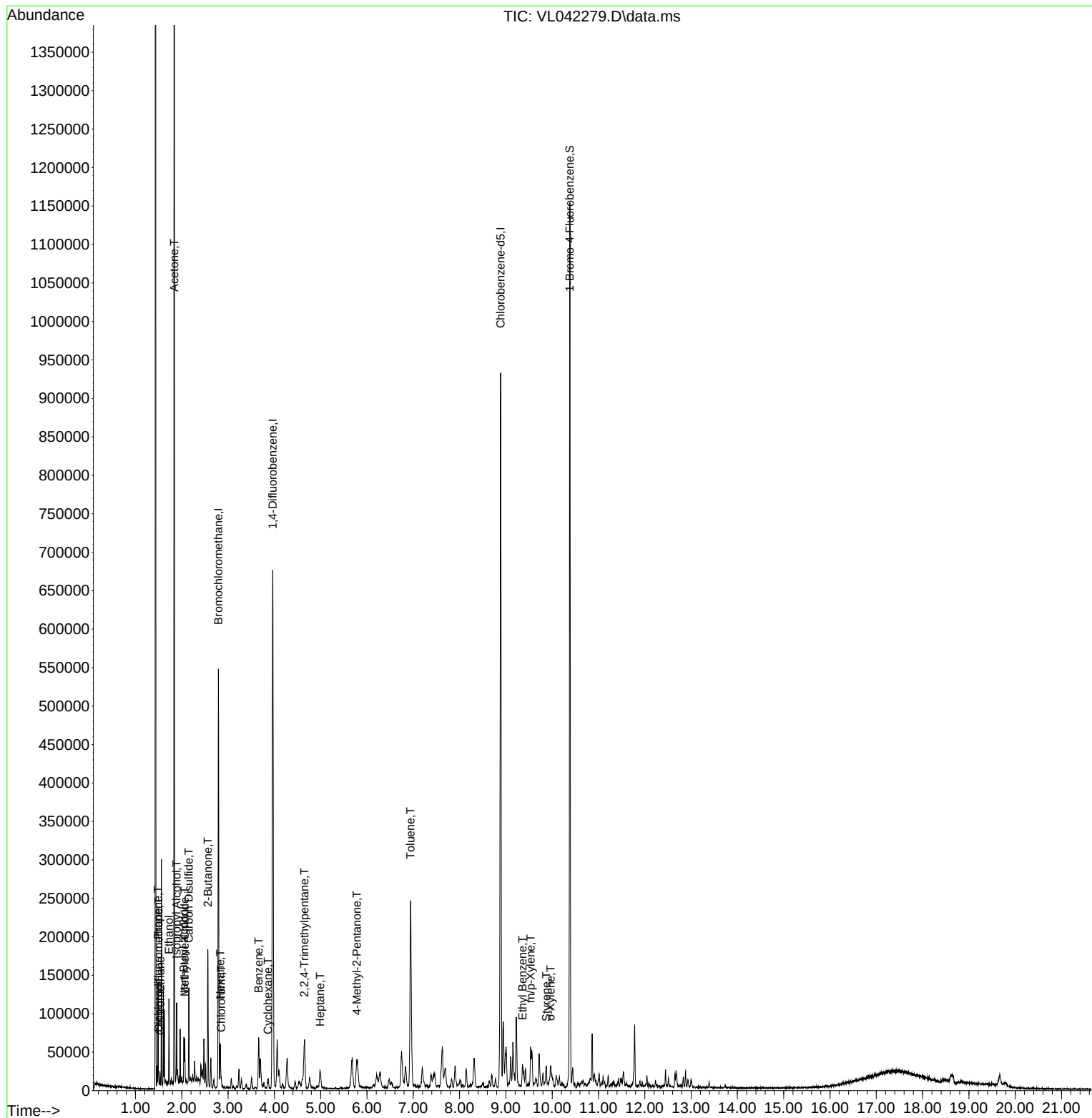
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042279.D
Acq On : 09 Apr 2025 00:46
Operator : SY/MD
Sample : Q1728-04 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

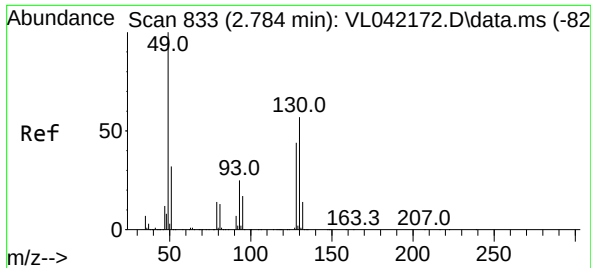
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025

Quant Time: Apr 09 07:55:28 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

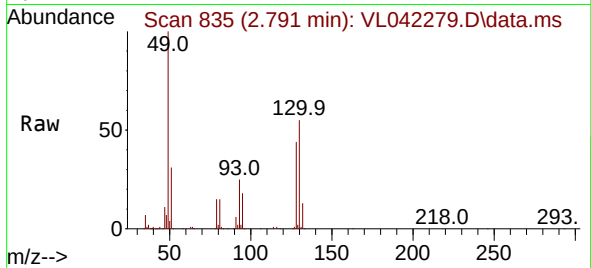
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 81
Delta R.T. 0.007 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

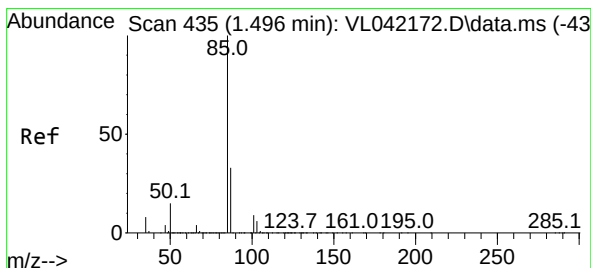
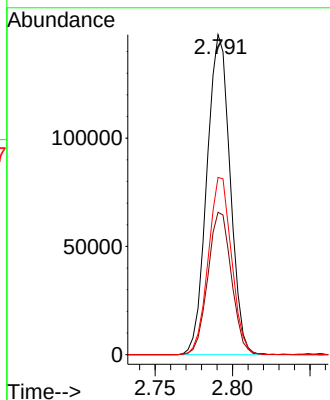
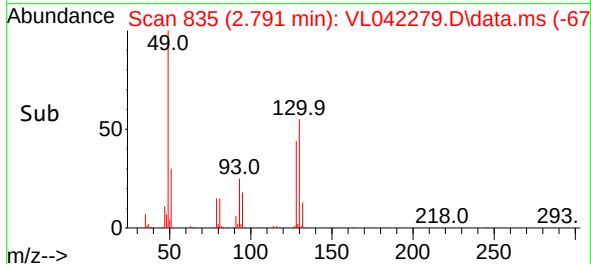
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025



Tgt Ion: 49 Resp: 15435
Ion Ratio Lower Upper
49 100
128 45.2 22.9 68.5
130 55.5 28.8 86.4

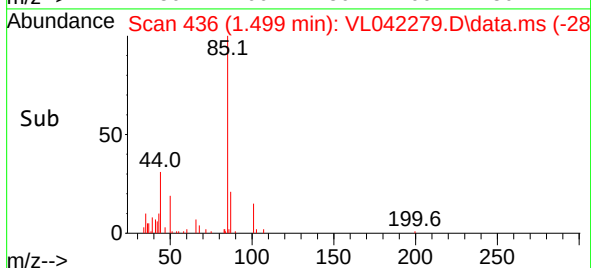
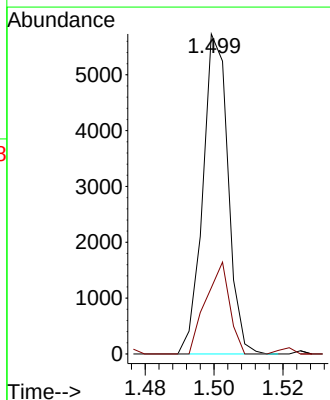
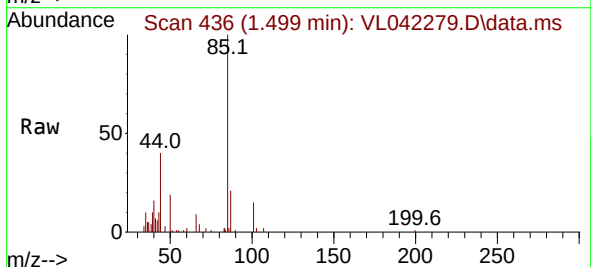
Manual Integrations
APPROVED

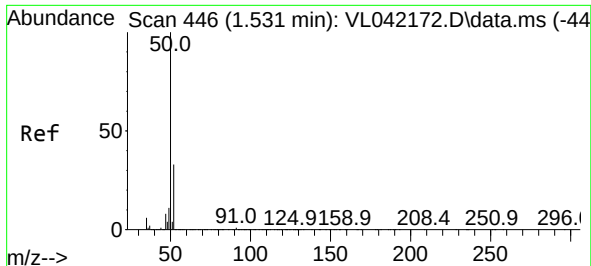
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#2
Dichlorodifluoromethane
Concen: 0.128 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

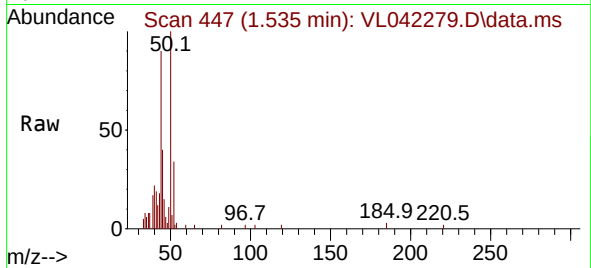
Tgt Ion: 85 Resp: 2923
Ion Ratio Lower Upper
85 100
87 20.7 26.1 39.1#





#4
Chloromethane
Concen: 0.197 ppbv
RT: 1.535 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

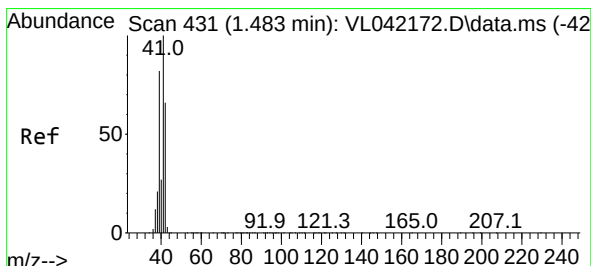
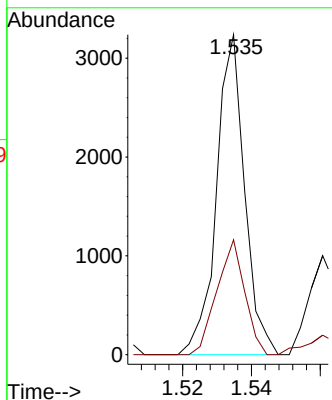
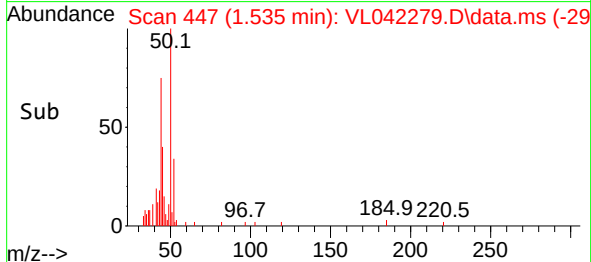
Instrument : MSVOA_L
ClientSampleId : SSSG-B2-7-04022025



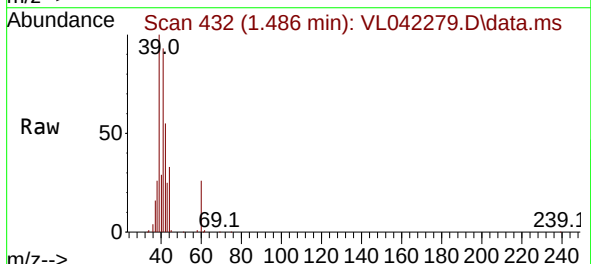
Tgt Ion: 50 Resp: 1839
Ion Ratio Lower Upper
50 100
52 35.9 26.1 39.1

Manual Integrations
APPROVED

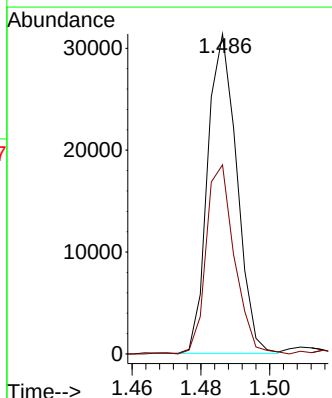
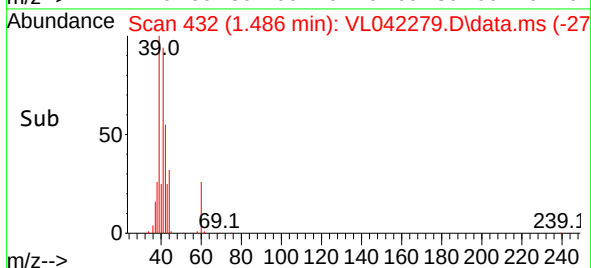
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

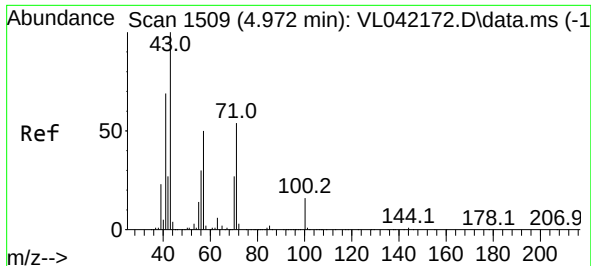


#9
Propene
Concen: 1.729 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46



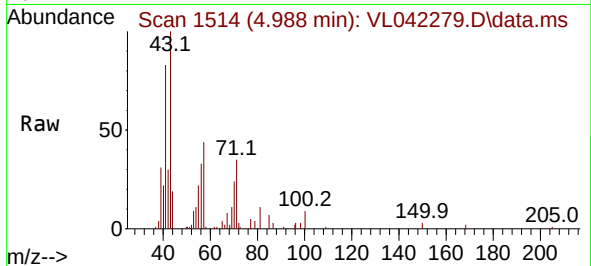
Tgt Ion: 41 Resp: 18452
Ion Ratio Lower Upper
41 100
42 58.8 55.4 83.2





#10
Heptane
Concen: 0.301 ppbv
RT: 4.988 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

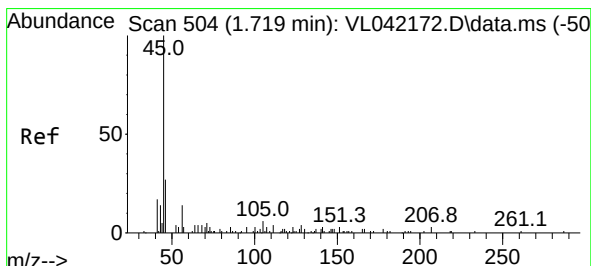
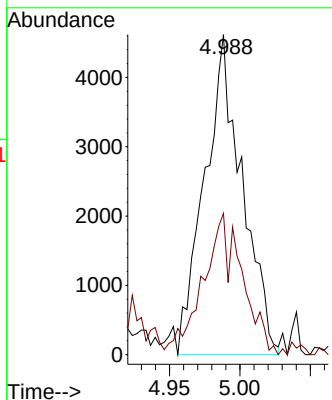
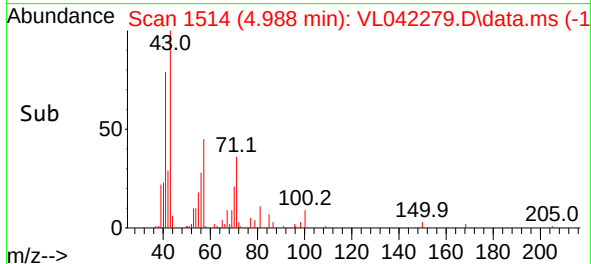
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025



Tgt Ion: 43 Resp: 8550
Ion Ratio Lower Upper
43 100
57 47.5 39.4 59.2

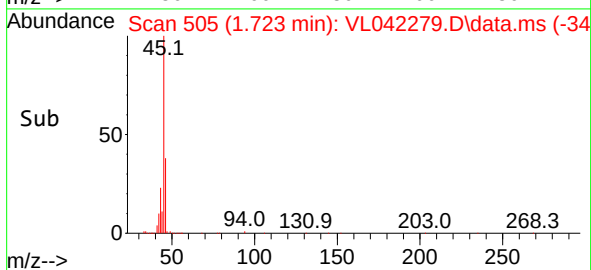
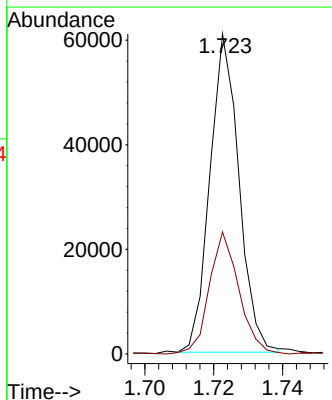
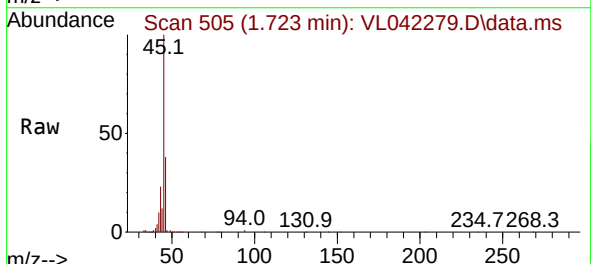
Manual Integrations
APPROVED

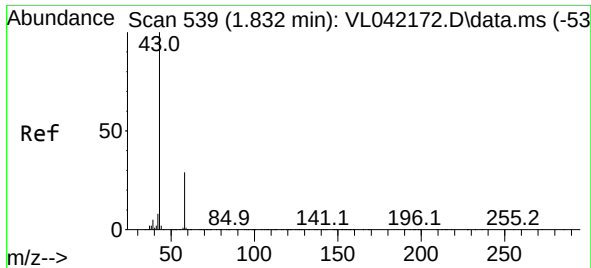
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#13
Ethanol
Concen: 35.335 ppbv
RT: 1.723 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

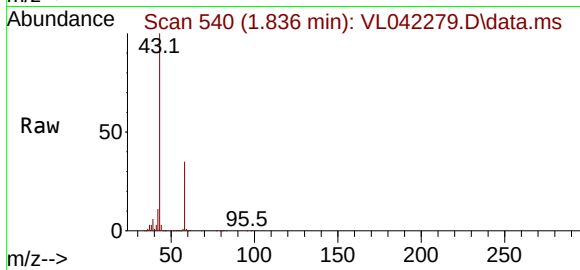
Tgt Ion: 45 Resp: 35645
Ion Ratio Lower Upper
45 100
46 39.6 20.2 80.8





#15
Acetone
Concen: 64.577 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

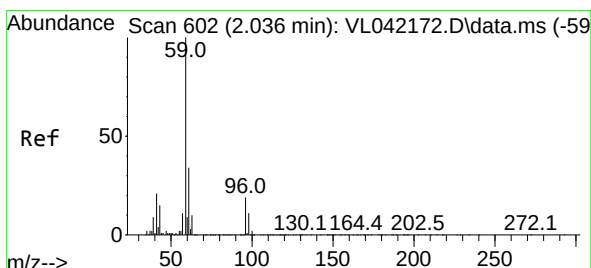
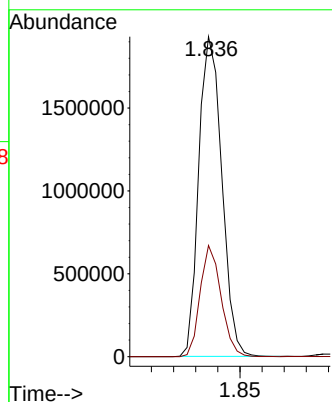
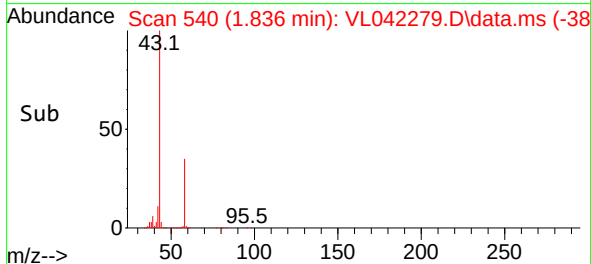
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025



Tgt Ion: 43 Resp: 1394020
Ion Ratio Lower Upper
43 100
58 31.7 23.2 34.8

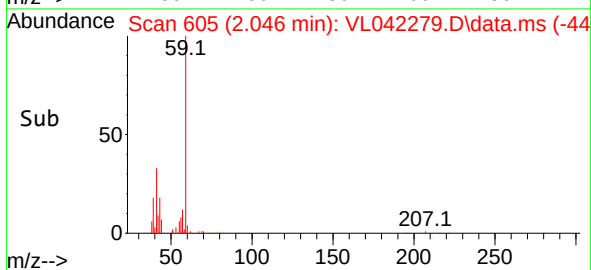
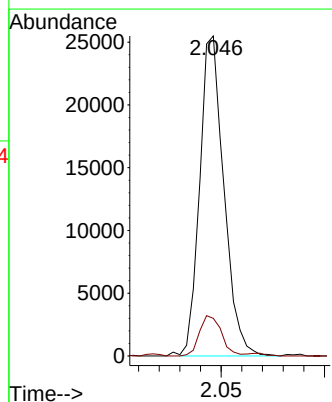
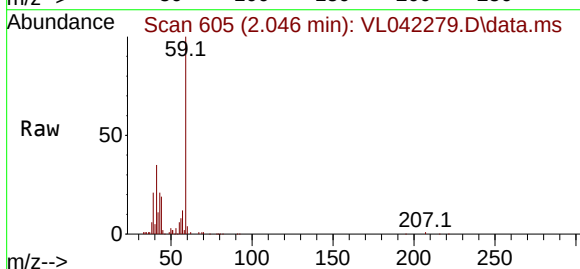
Manual Integrations
APPROVED

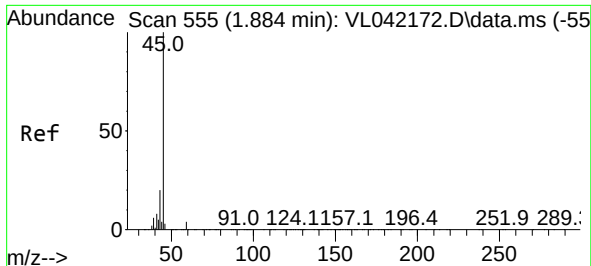
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#17
tert-Butyl alcohol
Concen: 0.770 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.010 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

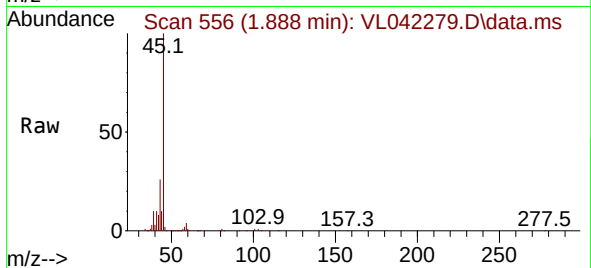
Tgt Ion: 59 Resp: 20709
Ion Ratio Lower Upper
59 100
57 12.5 8.9 13.3





#19
Isopropyl Alcohol
Concen: 3.503 ppbv
RT: 1.888 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

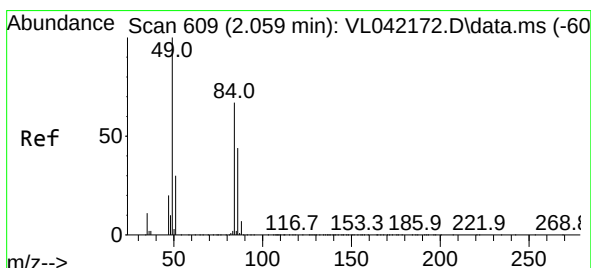
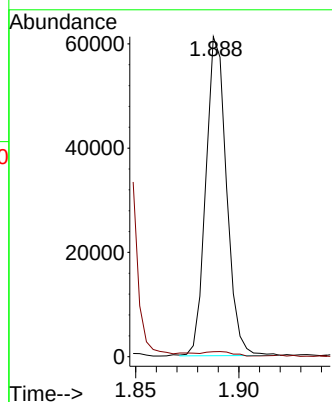
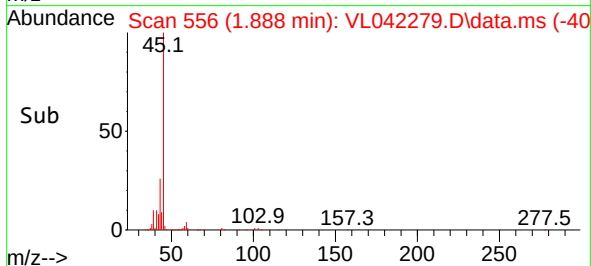
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025



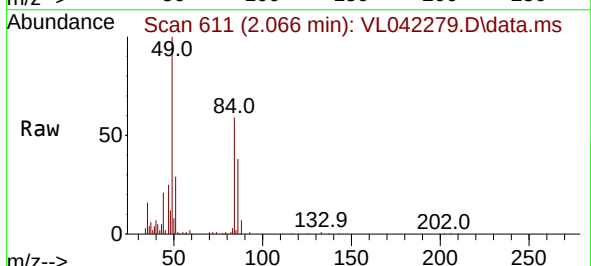
Tgt Ion: 45 Resp: 42662
Ion Ratio Lower Upper
45 100
58 0.0 36.9 55.3

Manual Integrations
APPROVED

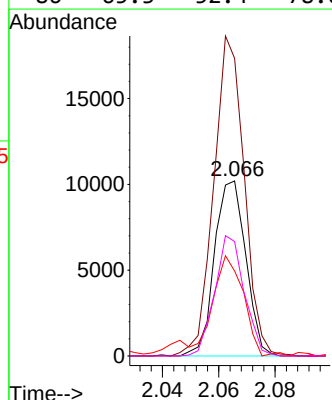
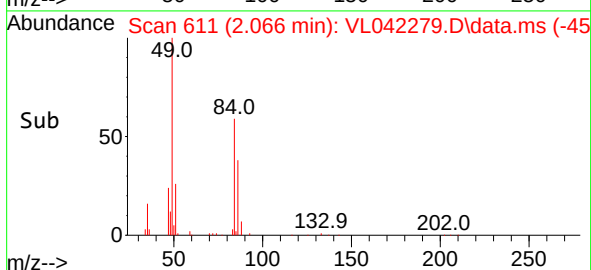
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

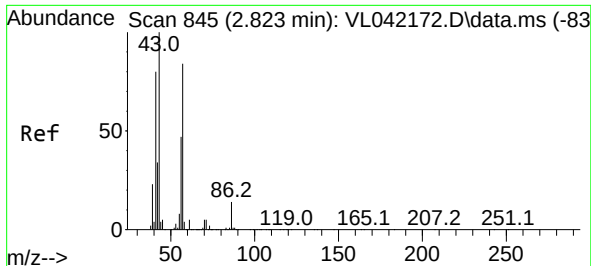


#20
Methylene Chloride
Concen: 0.979 ppbv
RT: 2.066 min Scan# 611
Delta R.T. 0.007 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46



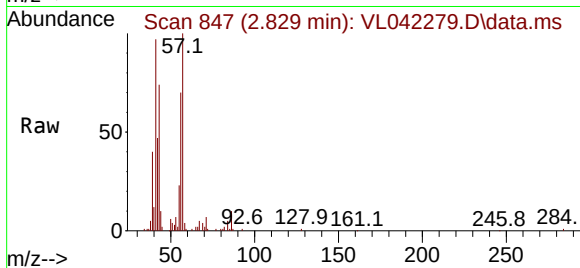
Tgt Ion: 84 Resp: 7869
Ion Ratio Lower Upper
84 100
49 168.9 120.2 180.4
51 46.6 37.4 56.0
86 65.3 52.4 78.6





#26
Hexane
Concen: 0.514 ppbv
RT: 2.829 min Scan# 845
Delta R.T. 0.007 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

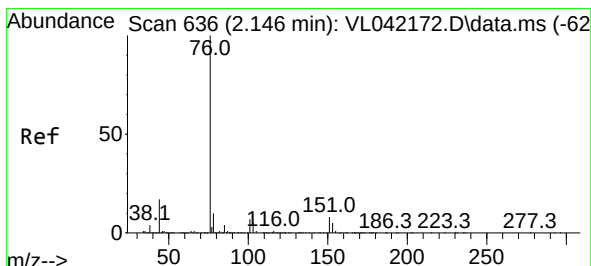
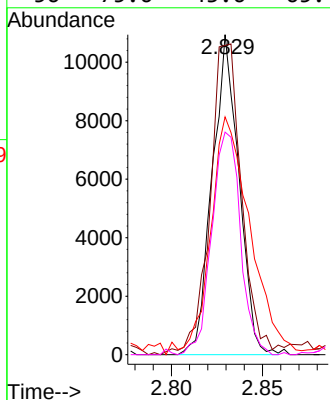
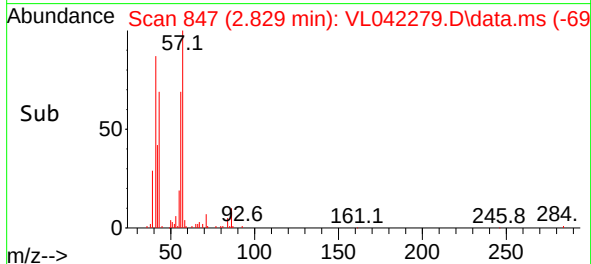
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025



Tgt Ion: 57 Resp: 1111
Ion Ratio Lower Upper
57 100
41 118.7 76.6 114.8
43 107.1 207.8 311.8
56 75.6 43.6 65.4#

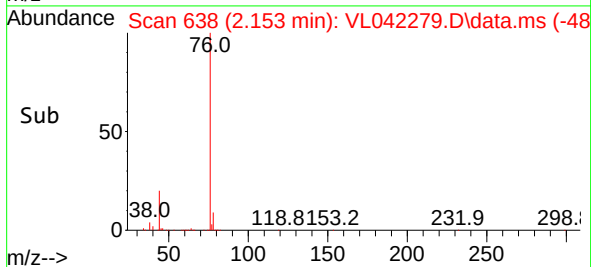
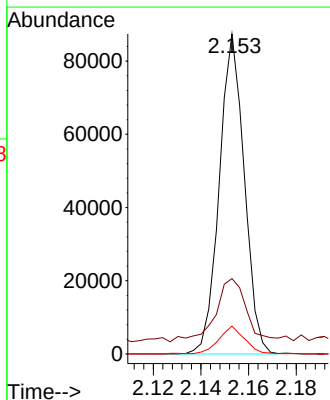
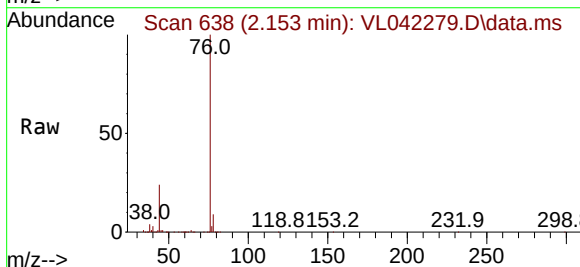
Manual Integrations
APPROVED

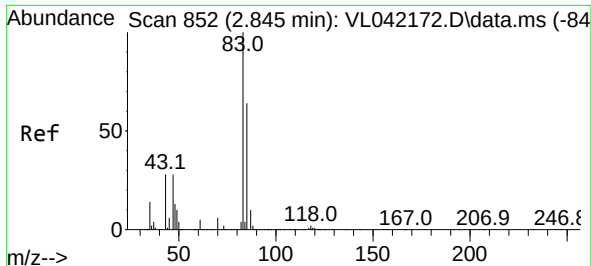
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#27
Carbon Disulfide
Concen: 2.746 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.007 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

Tgt Ion: 76 Resp: 63719
Ion Ratio Lower Upper
76 100
44 27.1 14.7 22.1#
78 9.2 9.3 13.9#





#29

Chloroform

Concen: 0.102 ppbv

RT: 2.852 min Scan# 854

Delta R.T. 0.007 min

Lab File: VL042279.D

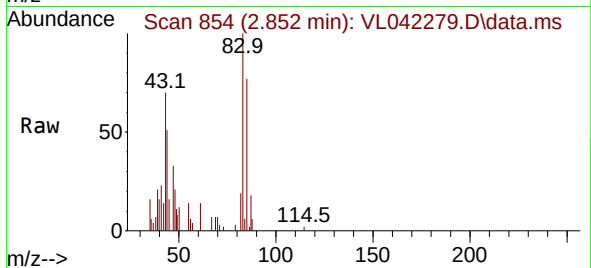
Acq: 09 Apr 2025 00:46

Instrument :

MSVOA_L

ClientSampleId :

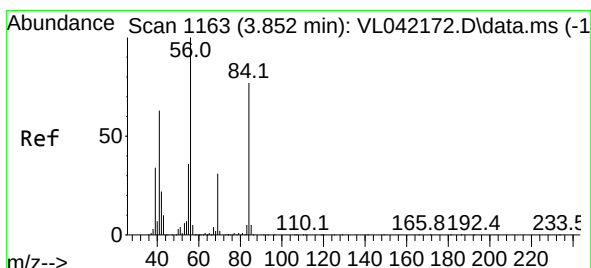
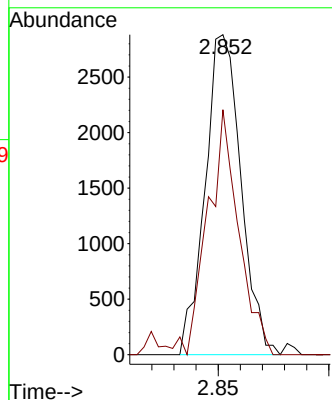
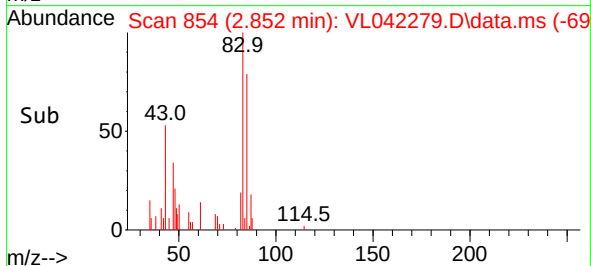
SSSG-B2-7-04022025



Tgt Ion:	83	Resp:	324
Ion	Ratio	Lower	Upper
83	100		
85	76.6	51.4	77.2

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#30

Cyclohexane

Concen: 0.148 ppbv

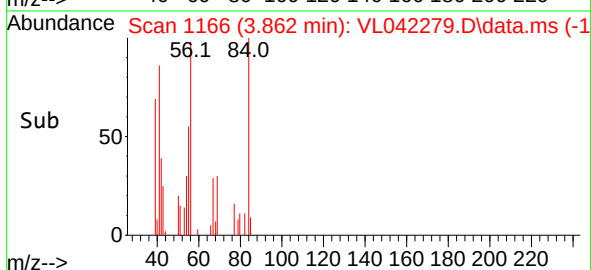
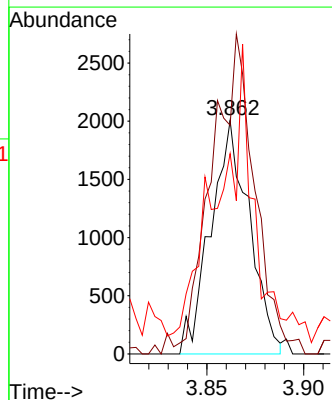
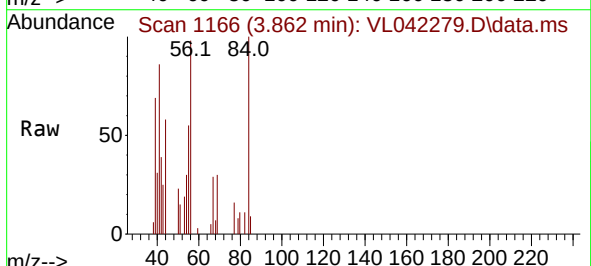
RT: 3.862 min Scan# 1166

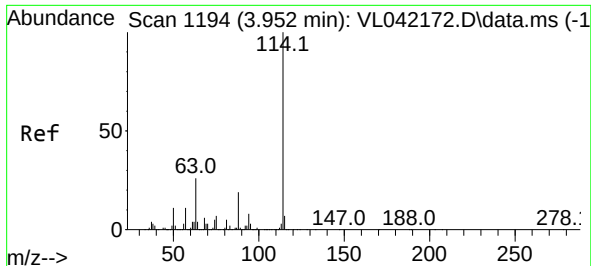
Delta R.T. 0.010 min

Lab File: VL042279.D

Acq: 09 Apr 2025 00:46

Tgt Ion:	84	Resp:	2776
Ion	Ratio	Lower	Upper
84	100		
56	153.2	102.8	154.2
41	134.2	66.5	99.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.966 min Scan# 1198

Delta R.T. 0.013 min

Lab File: VL042279.D

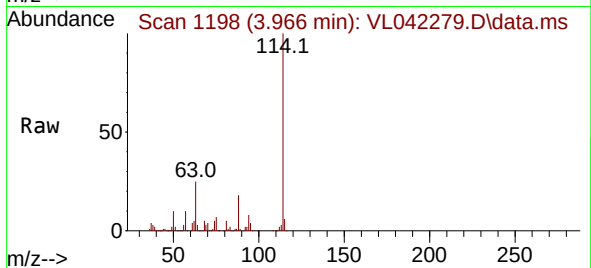
Acq: 09 Apr 2025 00:46

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-7-04022025



Tgt Ion:114 Resp: 392090

Ion Ratio Lower Upper

114 100

63 25.8 20.7 31.1

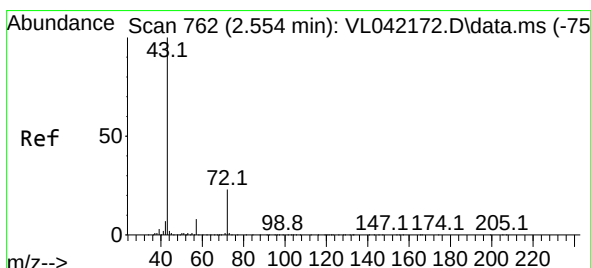
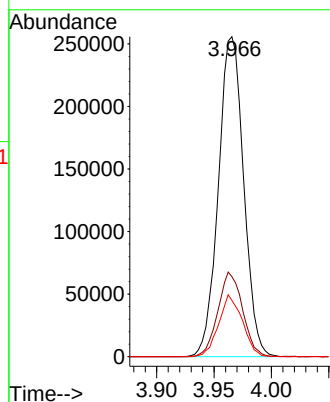
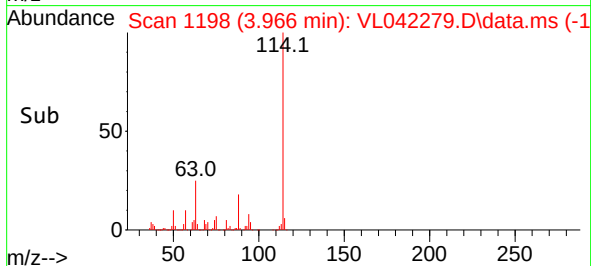
88 18.1 15.0 22.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025

Supervised By :Semsettin Yesilyurt 04/10/2025



#34

2-Butanone

Concen: 3.959 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.010 min

Lab File: VL042279.D

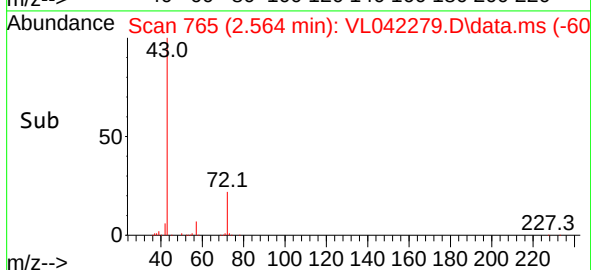
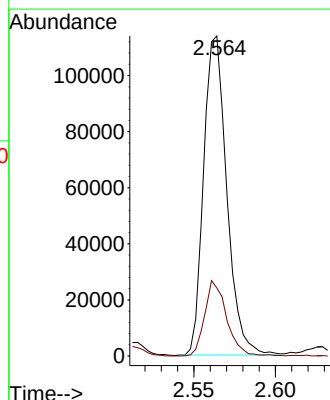
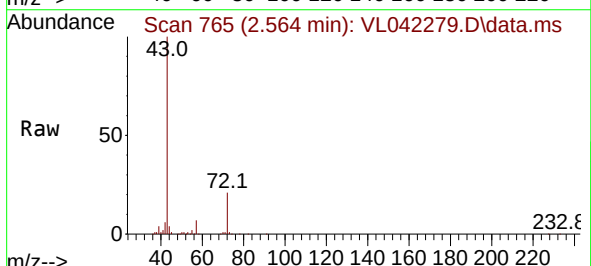
Acq: 09 Apr 2025 00:46

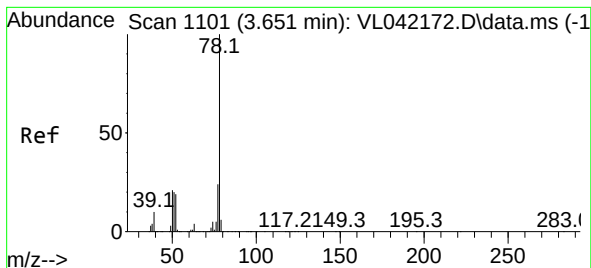
Tgt Ion: 43 Resp: 112551

Ion Ratio Lower Upper

43 100

72 22.5 18.2 27.2





#36

Benzene

Concen: 1.014 ppbv

RT: 3.661 min Scan# 1104

Delta R.T. 0.010 min

Lab File: VL042279.D

Acq: 09 Apr 2025 00:46

Instrument :

MSVOA_L

ClientSampleId :

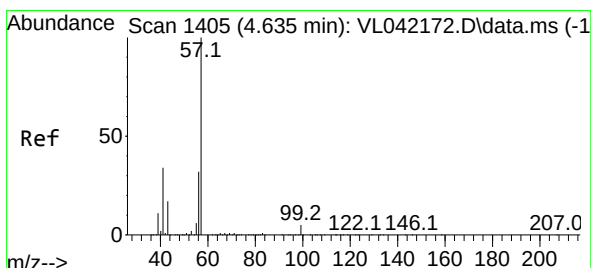
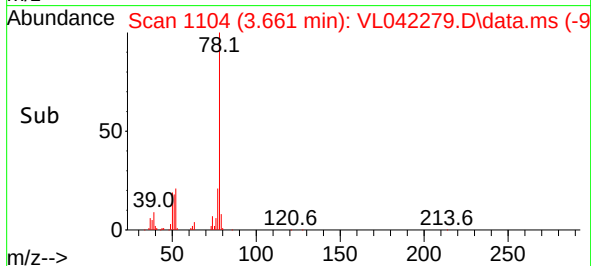
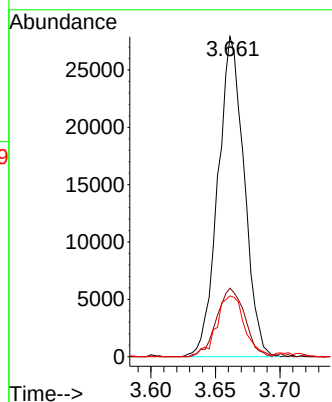
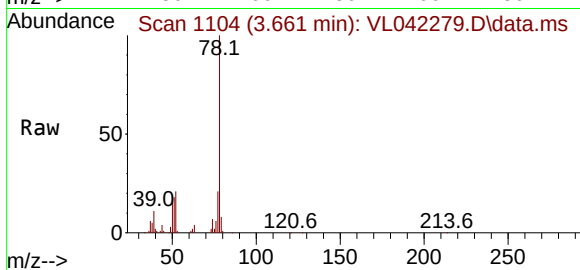
SSSG-B2-7-04022025

Tgt Ion: 78	Resp: 39414
Ion Ratio	Lower Upper
78 100	
77 21.4	19.1 28.7
50 19.0	16.6 24.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#44

2,2,4-Trimethylpentane

Concen: 0.740 ppbv

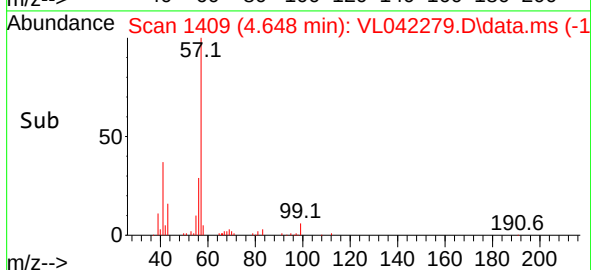
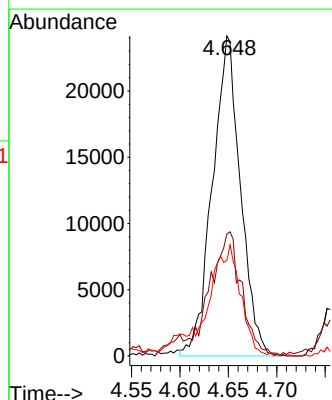
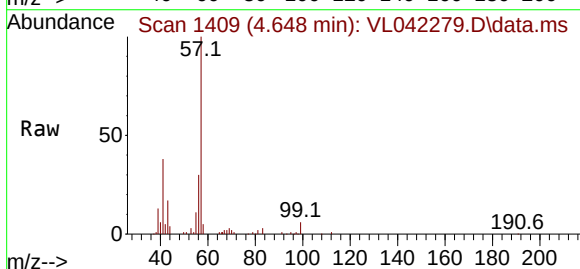
RT: 4.648 min Scan# 1409

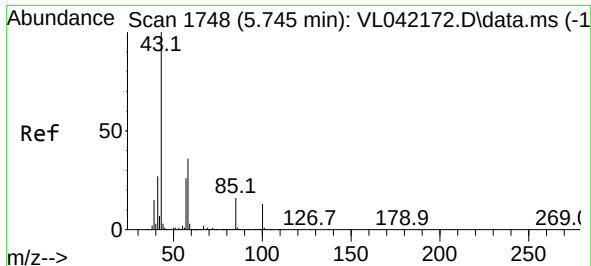
Delta R.T. 0.013 min

Lab File: VL042279.D

Acq: 09 Apr 2025 00:46

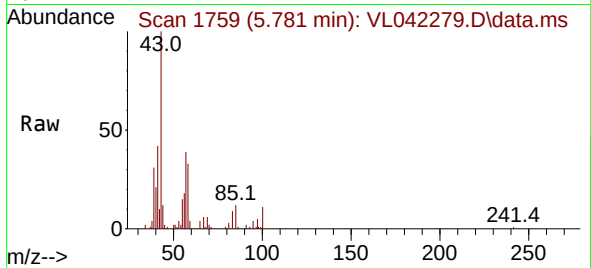
Tgt Ion: 57	Resp: 48596
Ion Ratio	Lower Upper
57 100	
41 46.5	26.8 40.2#
56 42.7	25.6 38.4#





#50
4-Methyl-2-Pentanone
Concen: 0.579 ppbv m
RT: 5.781 min Scan# 11
Delta R.T. 0.036 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

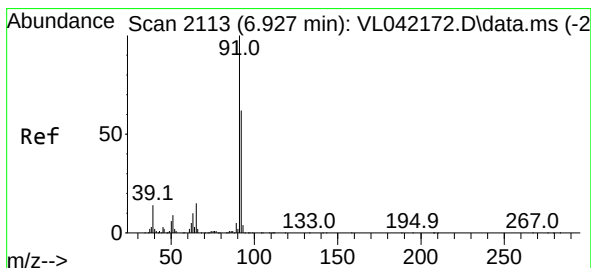
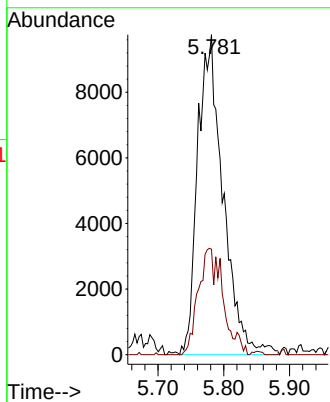
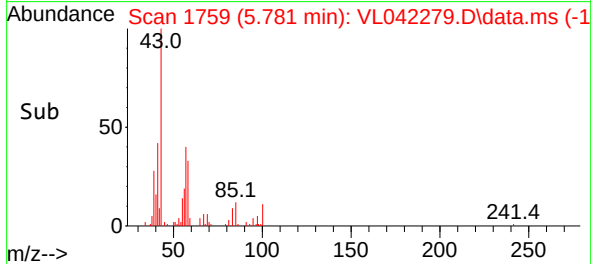
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025



Tgt Ion: 43 Resp: 26080
Ion Ratio Lower Upper
43 100
58 0.0 29.0 43.6

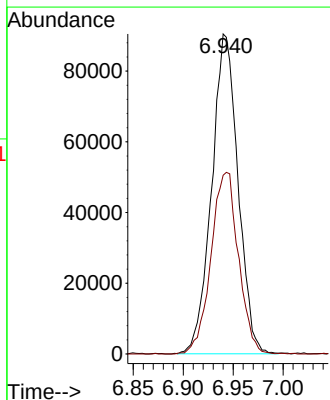
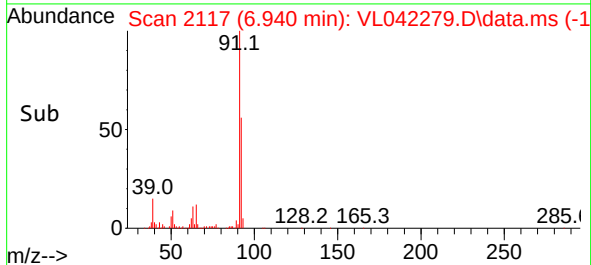
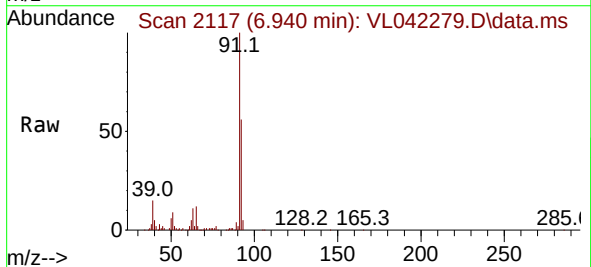
Manual Integrations
APPROVED

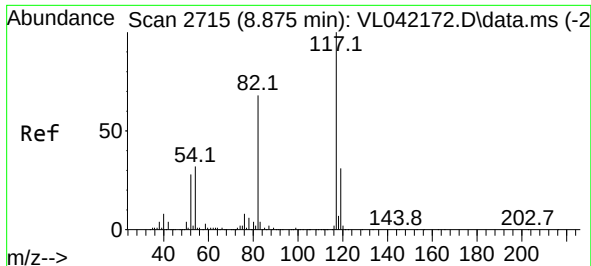
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#53
Toluene
Concen: 3.603 ppbv
RT: 6.940 min Scan# 2117
Delta R.T. 0.013 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

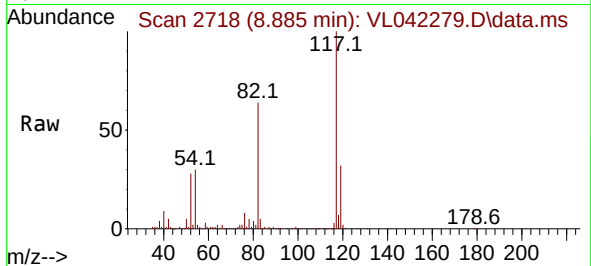
Tgt Ion: 91 Resp: 166042
Ion Ratio Lower Upper
91 100
92 59.2 48.4 72.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

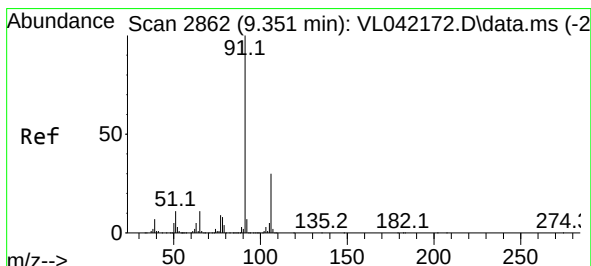
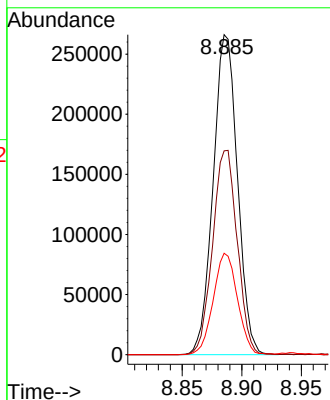
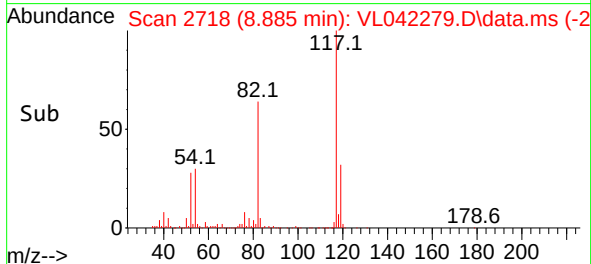
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025



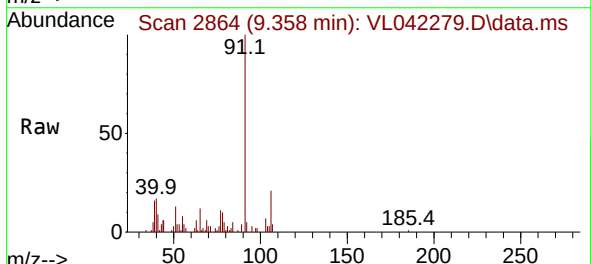
Tgt Ion: 117 Resp: 376954
Ion Ratio Lower Upper
117 100
82 64.7 55.8 83.6
119 31.7 25.5 38.3

Manual Integrations
APPROVED

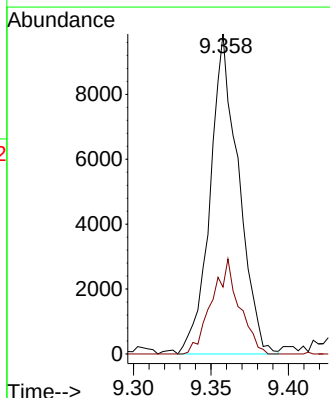
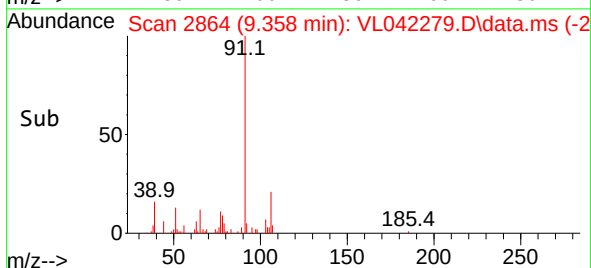
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

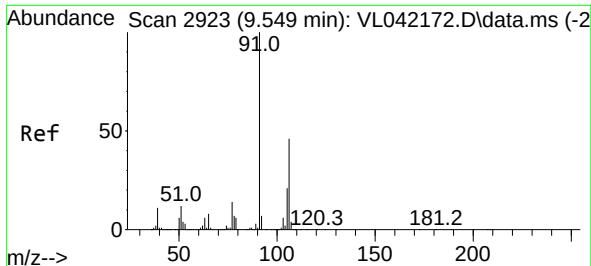


#58
Ethyl Benzene
Concen: 0.188 ppbv
RT: 9.358 min Scan# 2864
Delta R.T. 0.007 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46



Tgt Ion: 91 Resp: 12588
Ion Ratio Lower Upper
91 100
106 20.9 24.2 36.2#





#59

m/p-Xylene

Concen: 0.641 ppbv

RT: 9.536 min Scan# 2919

Delta R.T. -0.013 min

Lab File: VL042279.D

Acq: 09 Apr 2025 00:46

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-7-04022025

Tgt Ion: 91 Resp: 34249

Ion Ratio Lower Upper

91 100

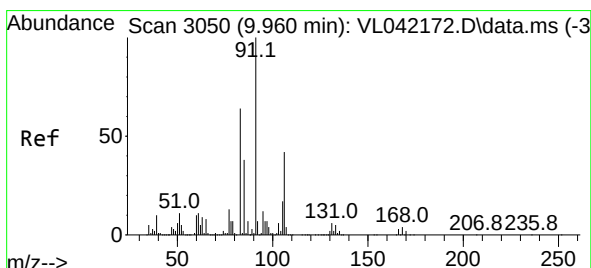
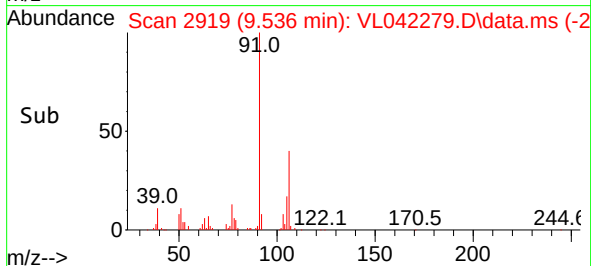
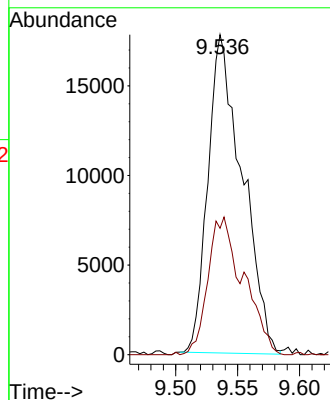
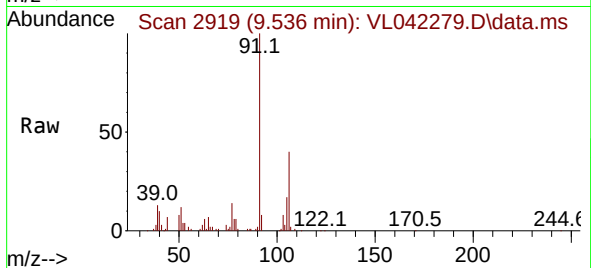
106 45.1 36.4 54.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025

Supervised By :Semsettin Yesilyurt 04/10/2025



#60

o-Xylene

Concen: 0.207 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.007 min

Lab File: VL042279.D

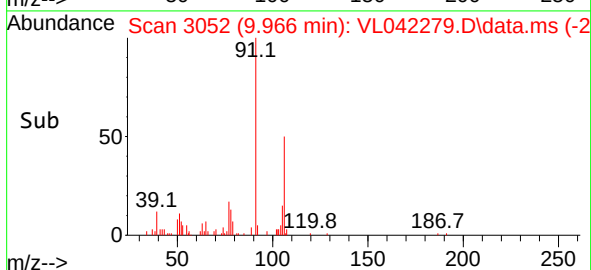
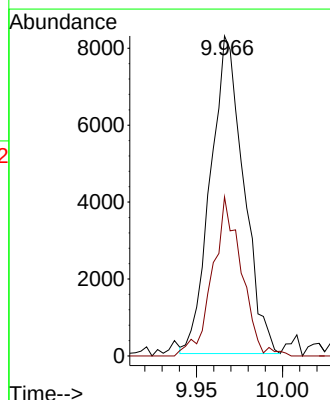
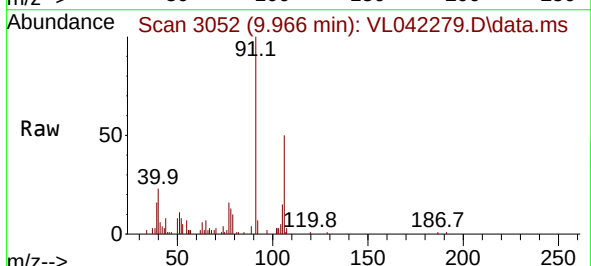
Acq: 09 Apr 2025 00:46

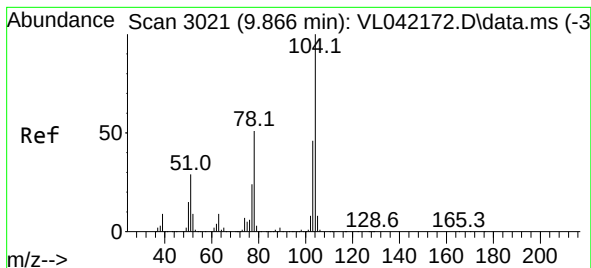
Tgt Ion: 91 Resp: 11082

Ion Ratio Lower Upper

91 100

106 43.9 20.8 62.5





#61

Styrene

Concen: 0.194 ppbv

RT: 9.872 min Scan# 3021

Delta R.T. 0.007 min

Lab File: VL042279.D

Acq: 09 Apr 2025 00:46

Instrument :

MSVOA_L

ClientSampleId :

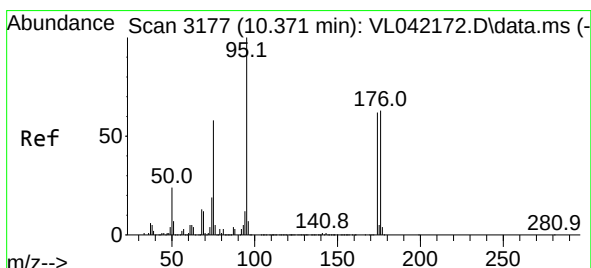
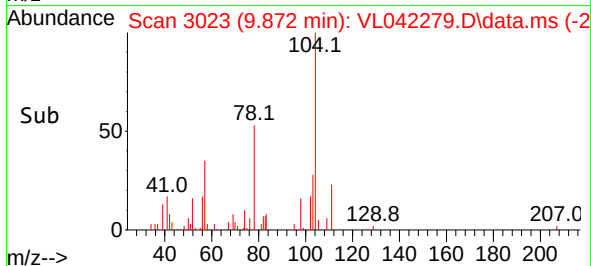
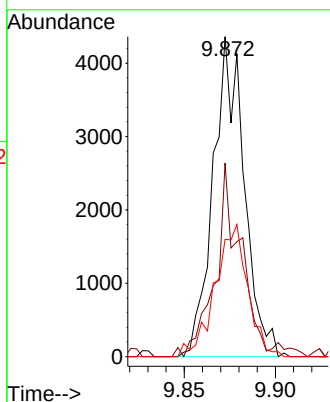
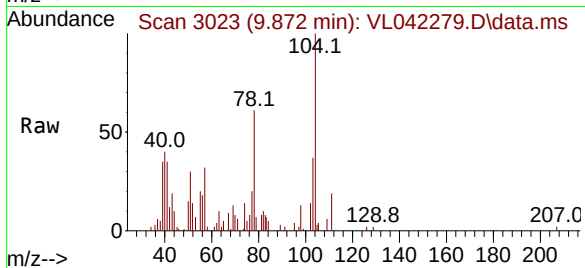
SSSG-B2-7-04022025

Tgt Ion:	104	Resp:	515
Ion Ratio	Lower	Upper	
104	100		
78	53.3	41.8	62.6
103	43.2	37.0	55.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 9.096 ppbv

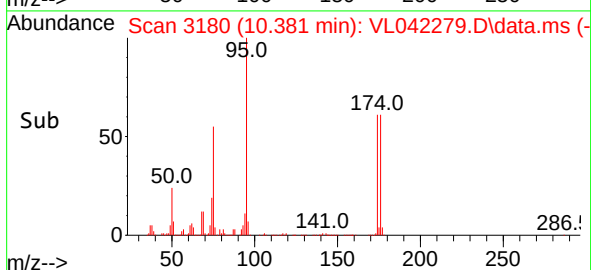
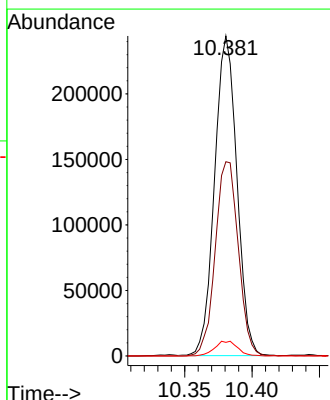
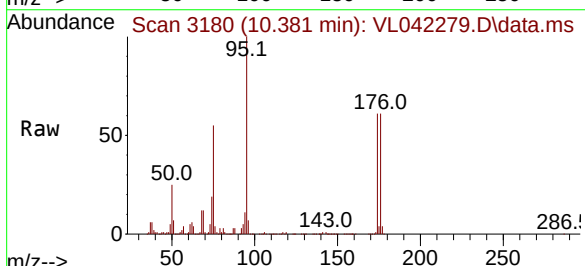
RT: 10.381 min Scan# 3180

Delta R.T. 0.010 min

Lab File: VL042279.D

Acq: 09 Apr 2025 00:46

Tgt Ion:	95	Resp:	281576
Ion Ratio	Lower	Upper	
95	100		
174	62.8	50.6	76.0
175	4.8	3.8	5.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042279.D
 Acq On : 09 Apr 2025 00:46
 Operator : SY/MD
 Sample : Q1728-04 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-7-04022025

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: VL042279.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	421	rBV	2797591	2273873	98.13%	17.481%
2	1.489	428	433	436	rBV2	129521	83350	3.60%	0.641%
3	1.561	449	455	459	rBV	293164	161877	6.99%	1.244%
4	1.603	463	468	471	rBV	130056	73842	3.19%	0.568%
5	1.622	471	474	478	rVB	95943	50863	2.19%	0.391%
6	1.723	501	505	512	rVB	110663	66720	2.88%	0.513%
7	1.836	536	540	549	rVB	3268900	2317278	100.00%	17.815%
8	1.888	549	556	560	rBV	102570	73911	3.19%	0.568%
9	1.965	576	580	585	rBV	70099	48244	2.08%	0.371%
10	2.046	600	605	608	rBV	58541	47361	2.04%	0.364%
11	2.062	608	610	615	rVB	53066	36624	1.58%	0.282%
12	2.153	631	638	643	rBV	123143	93547	4.04%	0.719%
13	2.477	733	738	744	rVB2	57572	57354	2.48%	0.441%
14	2.512	744	749	759	rVB3	29752	31809	1.37%	0.245%
15	2.561	759	764	774	rBV	179229	177917	7.68%	1.368%
16	2.626	776	784	793	rVB2	38135	44389	1.92%	0.341%
17	2.791	824	835	842	rBV	543655	571074	24.64%	4.390%
18	2.829	842	847	853	rVV2	46523	50556	2.18%	0.389%
19	3.661	1091	1104	1110	rBV2	66624	98649	4.26%	0.758%
20	3.697	1110	1115	1127	rVB2	36115	56758	2.45%	0.436%
21	3.962	1184	1197	1212	rBV	673951	1051404	45.37%	8.083%
22	4.059	1216	1227	1234	rBV2	60665	97274	4.20%	0.748%
23	4.273	1279	1293	1305	rBV6	38346	80740	3.48%	0.621%
24	4.652	1396	1410	1421	rVB2	62608	138126	5.96%	1.062%
25	4.985	1505	1513	1525	rVB6	22653	42574	1.84%	0.327%
26	5.671	1707	1725	1726	rBV5	35218	52059	2.25%	0.400%
27	5.678	1726	1727	1742	rVB6	38688	47414	2.05%	0.365%
28	5.781	1744	1759	1760	rBV3	36885	55258	2.38%	0.425%
29	5.788	1760	1761	1777	rVB10	32668	51145	2.21%	0.393%
30	6.205	1879	1890	1903	rBV8	15216	38266	1.65%	0.294%
31	6.276	1903	1912	1931	rVB10	18797	50313	2.17%	0.387%
32	6.746	2040	2057	2073	rBV6	47459	114317	4.93%	0.879%
33	6.943	2101	2118	2136	rBV	241018	493694	21.30%	3.795%
34	7.196	2183	2196	2207	rBV5	24460	54618	2.36%	0.420%
35	7.383	2243	2254	2261	rBV8	16398	33296	1.44%	0.256%
36	7.626	2313	2329	2339	rBV9	51839	126257	5.45%	0.971%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042279.D
 Acq On : 09 Apr 2025 00:46
 Operator : SY/MD
 Sample : Q1728-04 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-7-04022025

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	7.901	2403	2414	2426	rBV3	28020	55554	2.40%	0.427%
38	8.141	2480	2488	2499	rVB7	23778	41989	1.81%	0.323%
39	8.312	2532	2541	2556	rVB10	37820	78218	3.38%	0.601%
40	8.885	2701	2718	2728	rBV	929416	1406616	60.70%	10.814%
41	8.947	2728	2737	2744	rVV2	83043	146233	6.31%	1.124%
42	9.005	2744	2755	2764	rVB9	49405	117422	5.07%	0.903%
43	9.102	2776	2785	2792	rBV4	35311	52816	2.28%	0.406%
44	9.151	2792	2800	2809	rBV3	49584	72190	3.12%	0.555%
45	9.225	2814	2823	2834	rVB4	85912	126995	5.48%	0.976%
46	9.361	2855	2865	2869	rBV2	28839	45125	1.95%	0.347%
47	9.422	2878	2884	2891	rVB6	22743	33119	1.43%	0.255%
48	9.533	2910	2918	2923	rBV3	49122	71952	3.11%	0.553%
49	9.558	2923	2926	2936	rVB8	44931	64412	2.78%	0.495%
50	9.717	2966	2975	2989	rBV2	42696	69590	3.00%	0.535%
51	9.872	3011	3023	3029	rVB7	23107	33894	1.46%	0.261%
52	9.966	3037	3052	3059	rBV4	25209	53843	2.32%	0.414%
53	10.381	3160	3180	3190	rBV	1149358	1376508	59.40%	10.582%
54	10.445	3190	3200	3209	rVB7	22621	37424	1.61%	0.288%
55	10.863	3322	3329	3337	rVB3	62015	70104	3.03%	0.539%
56	11.779	3599	3612	3621	rVB2	80108	110999	4.79%	0.853%

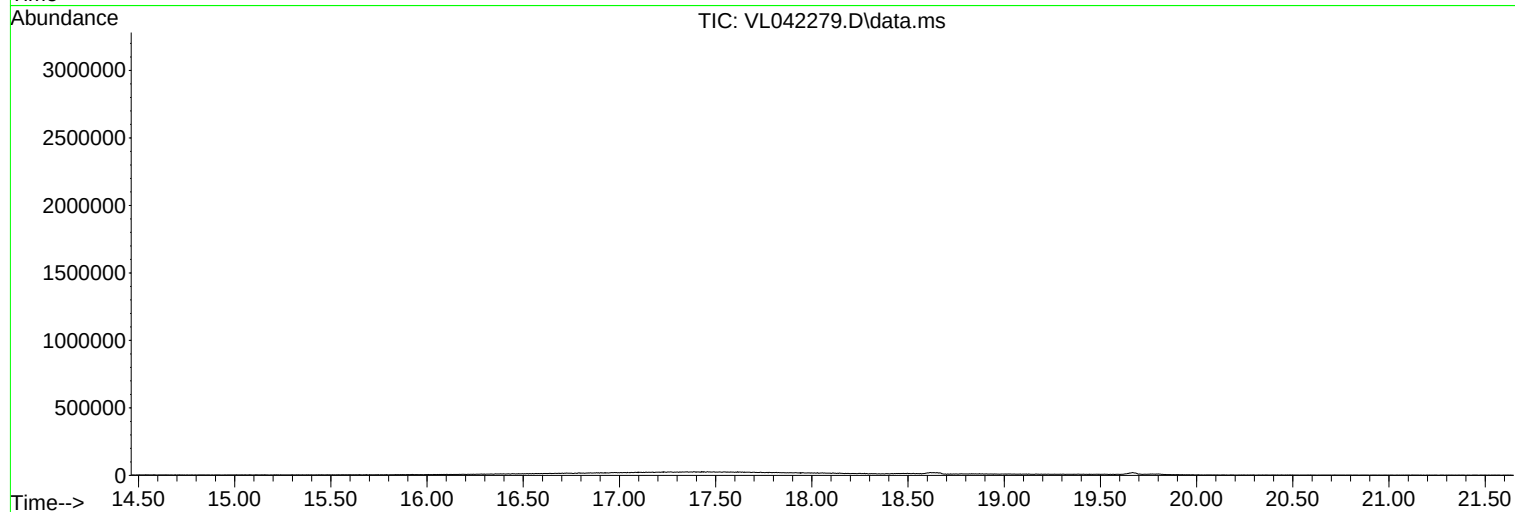
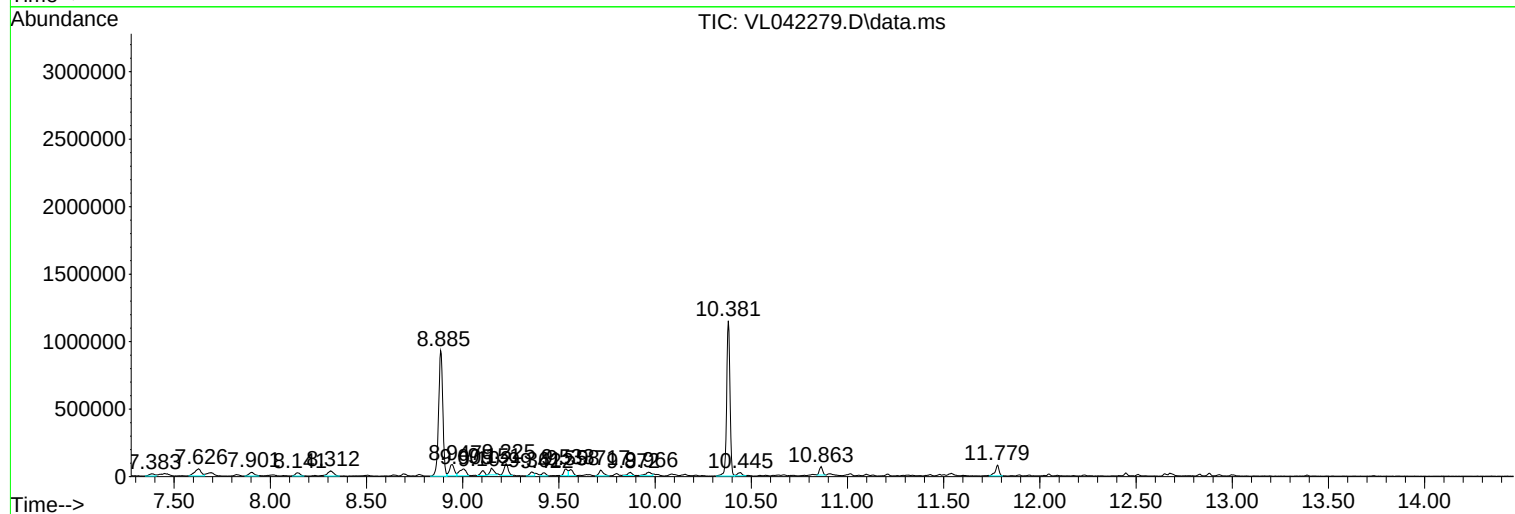
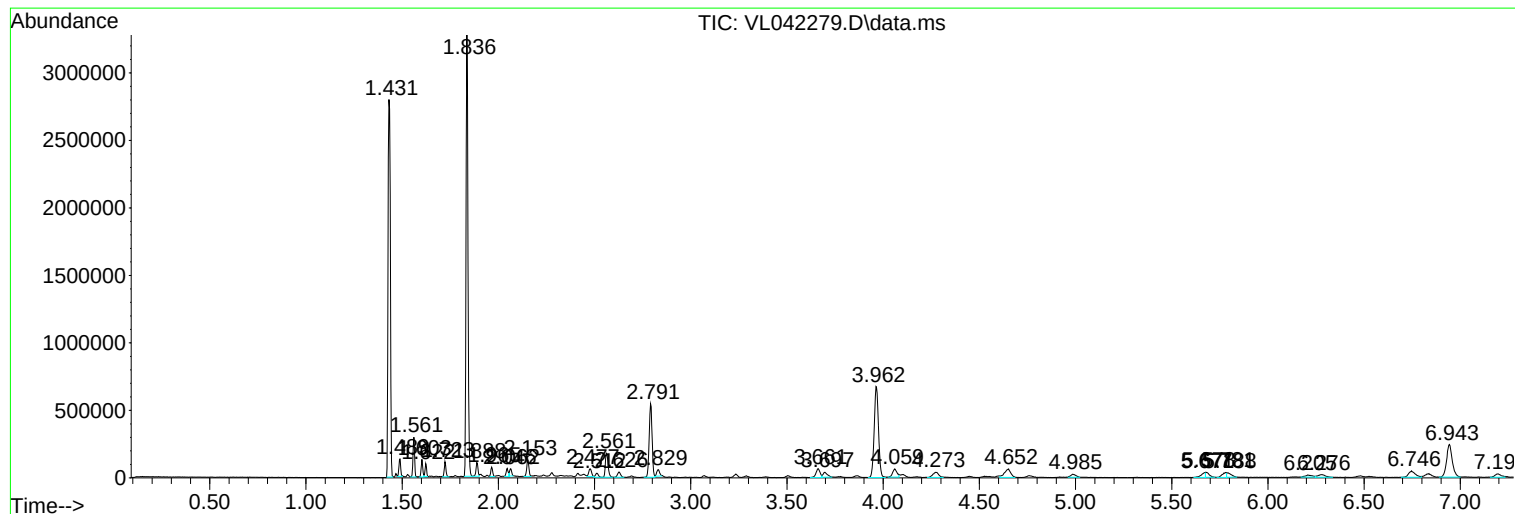
Sum of corrected areas: 13007754

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042279.D
Acq On : 09 Apr 2025 00:46
Operator : SY/MD
Sample : Q1728-04 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025

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 : VL042279.D
Acq On : 09 Apr 2025 00:46
Operator : SY/MD
Sample : Q1728-04 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025

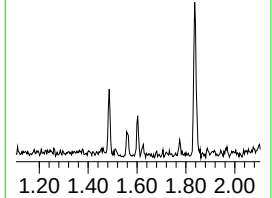
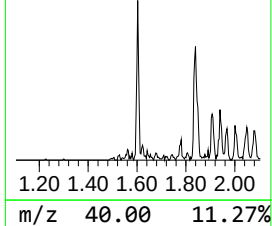
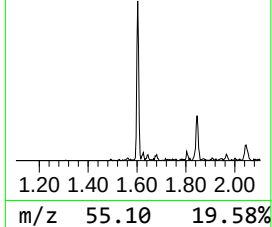
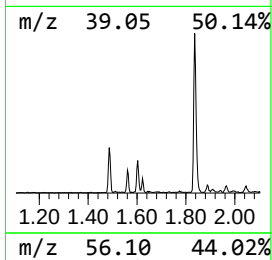
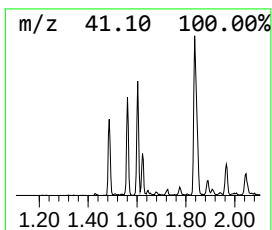
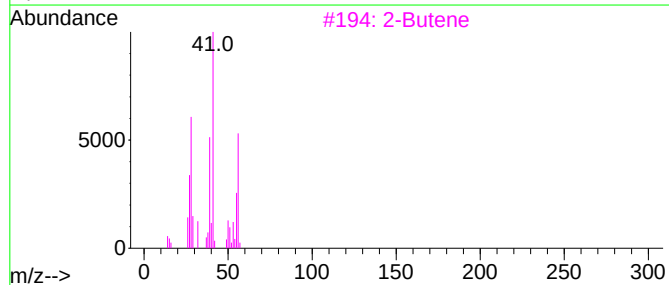
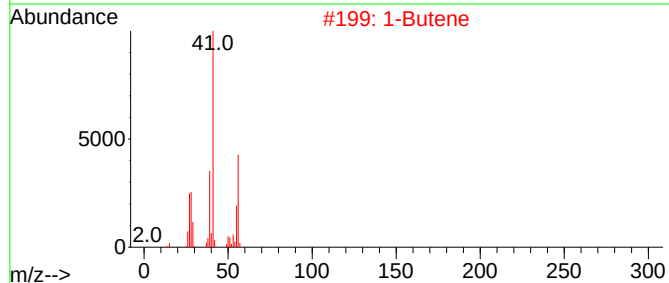
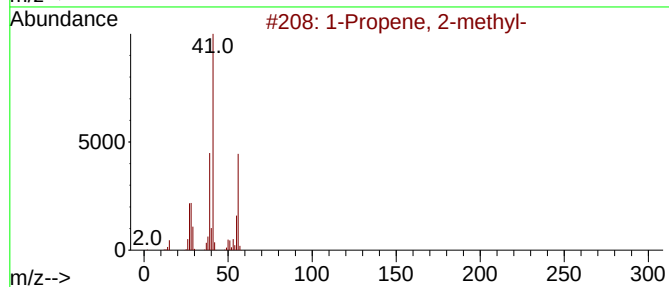
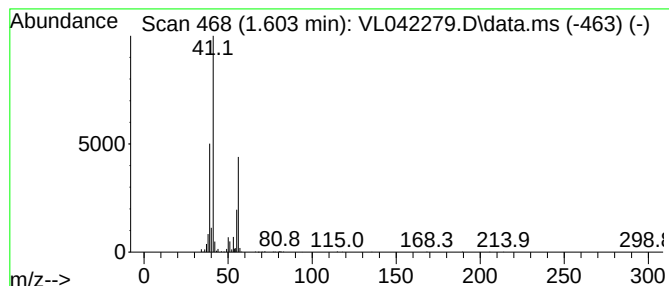
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 2 1-Propene, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.603	1.29 ppbv	73842	Bromochloromethane	2.791

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propene, 2-methyl-			56	C4H8	000115-11-7	90
2	1-Butene			56	C4H8	000106-98-9	86
3	2-Butene			56	C4H8	000107-01-7	80
4	2-Butene, (Z)-			56	C4H8	000590-18-1	80
5	1-Propene, 2-methyl-			56	C4H8	000115-11-7	80



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042279.D
Acq On : 09 Apr 2025 00:46
Operator : SY/MD
Sample : Q1728-04 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025

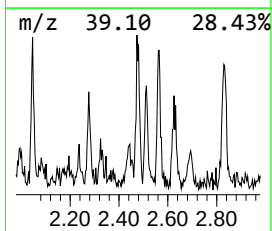
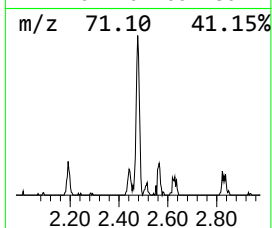
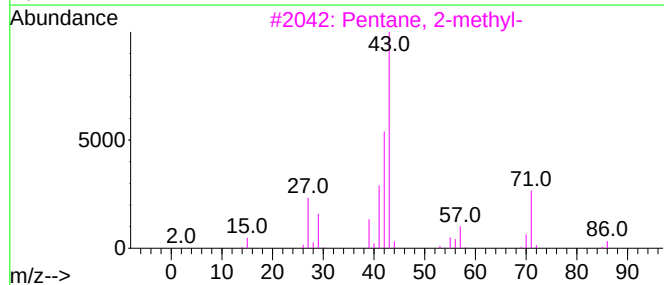
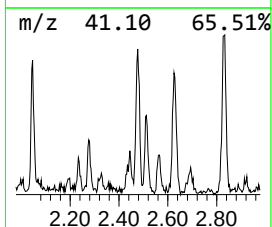
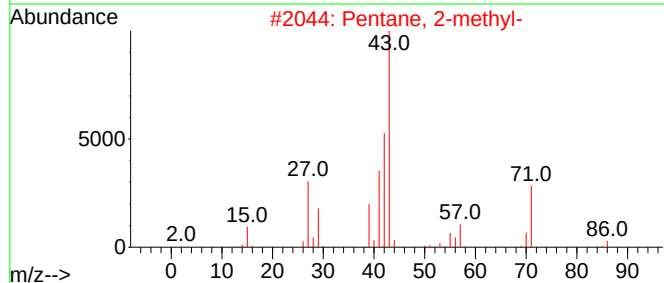
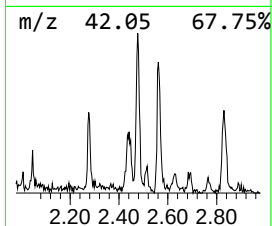
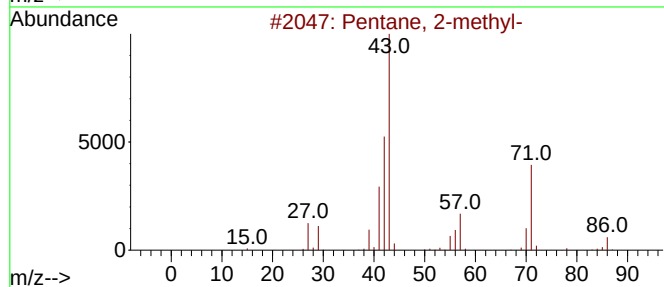
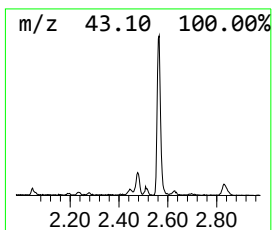
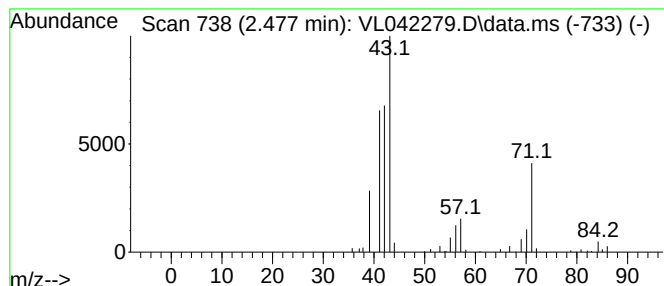
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 3 Pentane, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.477	1.00 ppbv	57354	Bromochloromethane	2.791

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentane, 2-methyl-	86	C6H14	000107-83-5	90
2			Pentane, 2-methyl-	86	C6H14	000107-83-5	86
3			Pentane, 2-methyl-	86	C6H14	000107-83-5	86
4			Pentane, 2-methyl-	86	C6H14	000107-83-5	74
5			Pentane, 2-methyl-	86	C6H14	000107-83-5	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042279.D
Acq On : 09 Apr 2025 00:46
Operator : SY/MD
Sample : Q1728-04 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025

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
1-Propene, 2-me...	1.603	1.3	ppbv	73842	1	2.791	571074	10.0
Pentane, 2-methyl-	2.477	1.0	ppbv	57354	1	2.791	571074	10.0

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/02/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B2-7-04022025DL	SDG No.:	Q1728
Lab Sample ID:	Q1728-04DL	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
VL042280.D	40		04/09/25 01:18	VL040825

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	310	736	D	22.8	47.5	ug/m3
75-15-0	Carbon Disulfide	9.60	29.9	JD	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	10.9	37.9	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	14.4	42.5	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	3.90	12.5	JD	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	9.10	34.3	JD	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:	04/02/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B2-7-04022025DL	SDG No.:	Q1728
Lab Sample ID:	Q1728-04DL	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
VL042280.D	40		04/09/25 01:18	VL040825

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	9.20			70 (65) - 130 (135)	92%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	147000		2.794			
540-36-3	1,4-Difluorobenzene	371000		3.968			
3114-55-4	Chlorobenzene-d5	326000		8.888			

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/02/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B2-7-04022025DL	SDG No.:	Q1728
Lab Sample ID:	Q1728-04DL	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
VL042280.D	40		04/09/25 01:18	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 : VL042280.D
 Acq On : 09 Apr 2025 01:18
 Operator : SY/MD
 Sample : Q1728-04DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-7-04022025DL

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
 Supervised By :Semsettin Yesilyurt 04/10/2025

Quant Time: Apr 09 05:21:09 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	2.794	49	147116	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	371349	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.888	117	326259	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	246947	9.217	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.200%
Target Compounds						
9) Propene	1.486	41	1659	0.163	ppbv #	56
13) Ethanol	1.725	45	3767	3.918	ppbv	96
15) Acetone	1.839	43	159209	7.738	ppbv	96
20) Methylene Chloride	2.065	84	2085	0.272	ppbv #	81
27) Carbon Disulfide	2.153	76	5281	0.239	ppbv #	1
34) 2-Butanone	2.564	43	9672	0.359	ppbv	99
36) Benzene	3.664	78	3578m	0.097	ppbv	
53) Toluene	6.949	91	9897m	0.227	ppbv	

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

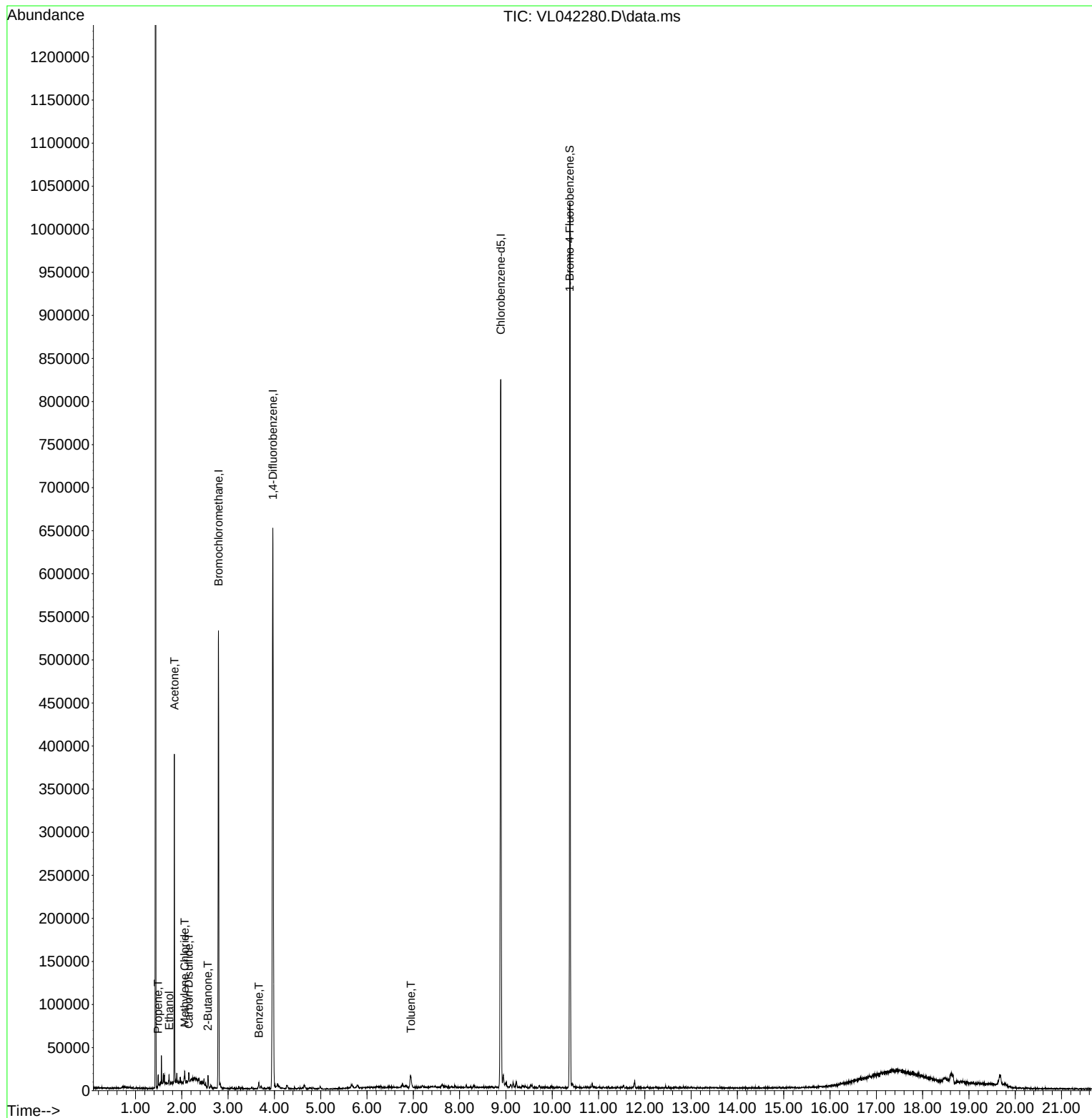
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Data File : VL042280.D
Acq On : 09 Apr 2025 01:18
Operator : SY/MD
Sample : Q1728-04DL 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

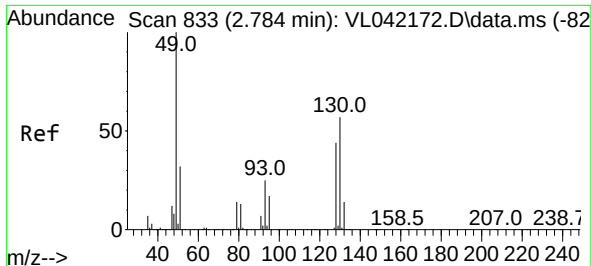
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025DL

Quant Time: Apr 09 05:21:09 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

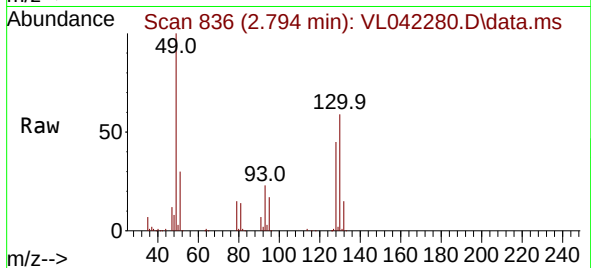
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 833
Delta R.T. 0.010 min
Lab File: VL042280.D
Acq: 09 Apr 2025 01:18

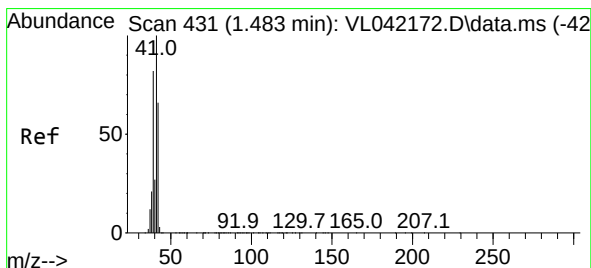
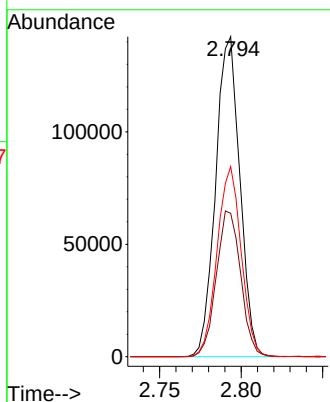
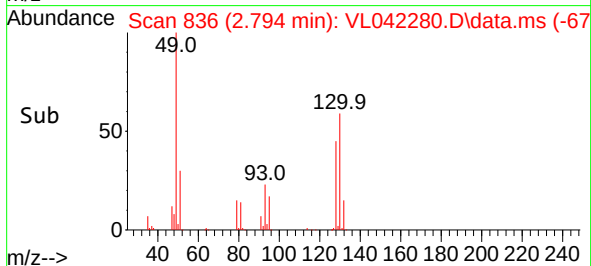
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025DL



Tgt Ion: 49 Resp: 147110
Ion Ratio Lower Upper
49 100
128 45.8 22.9 68.5
130 59.1 28.8 86.4

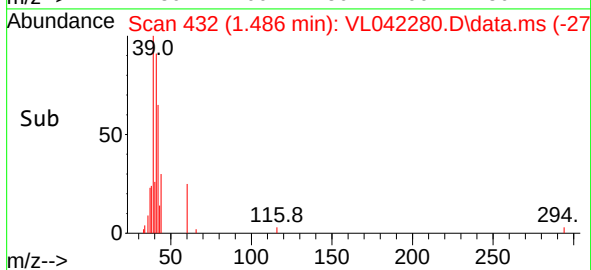
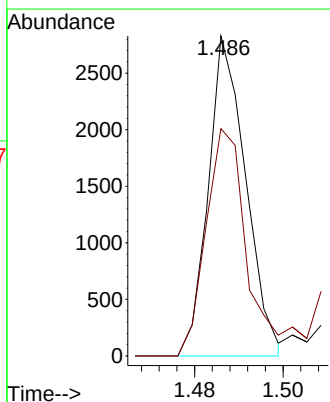
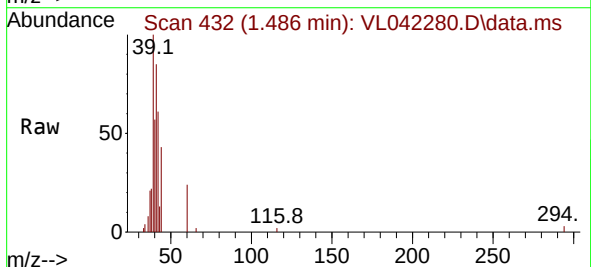
Manual Integrations
APPROVED

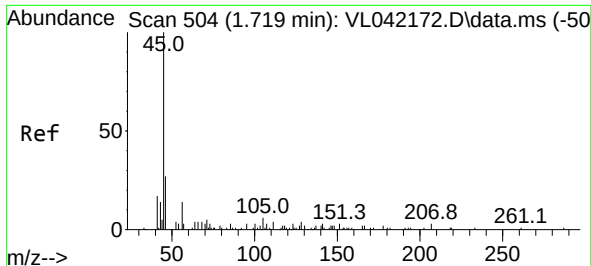
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#9
Propene
Concen: 0.163 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042280.D
Acq: 09 Apr 2025 01:18

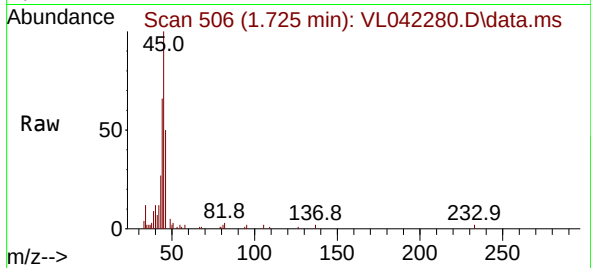
Tgt Ion: 41 Resp: 1659
Ion Ratio Lower Upper
41 100
42 105.3 55.4 83.2#





#13
Ethanol
Concen: 3.918 ppbv
RT: 1.725 min Scan# 504
Delta R.T. 0.006 min
Lab File: VL042280.D
Acq: 09 Apr 2025 01:18

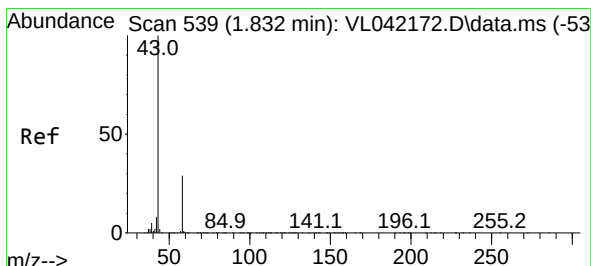
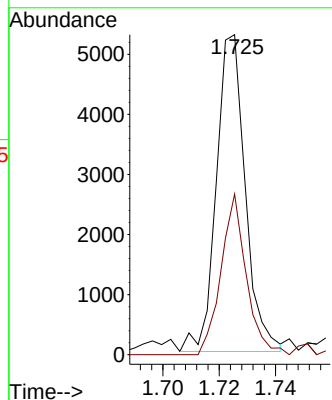
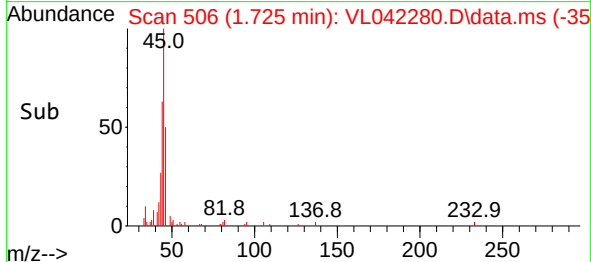
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025DL



Tgt Ion: 45 Resp: 376
Ion Ratio Lower Upper
45 100
46 47.5 20.2 80.8

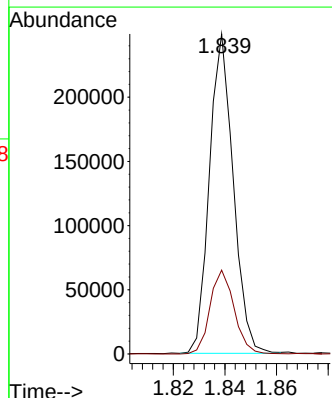
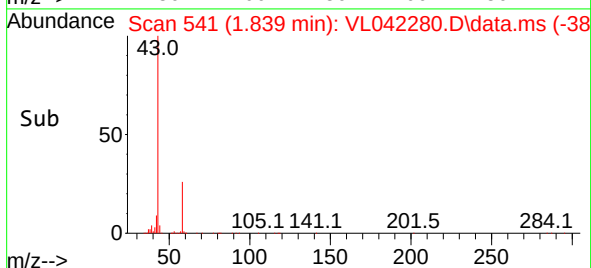
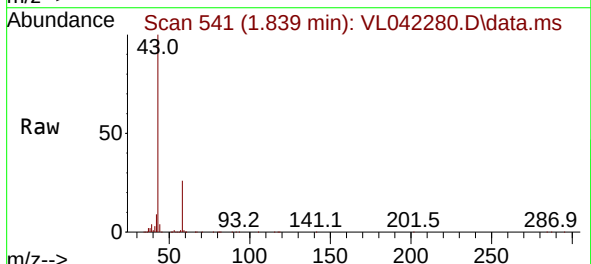
Manual Integrations
APPROVED

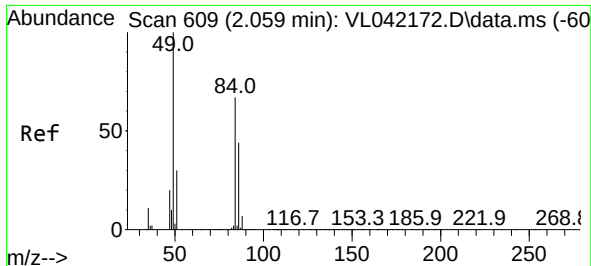
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#15
Acetone
Concen: 7.738 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042280.D
Acq: 09 Apr 2025 01:18

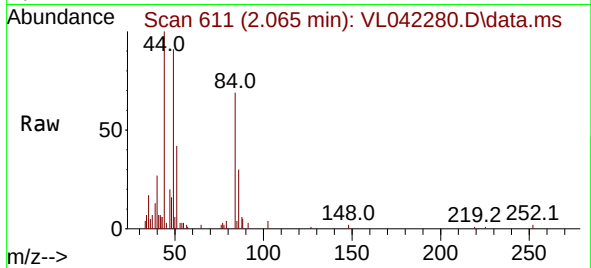
Tgt Ion: 43 Resp: 159209
Ion Ratio Lower Upper
43 100
58 26.9 23.2 34.8





#20
Methylene Chloride
Concen: 0.272 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042280.D
Acq: 09 Apr 2025 01:18

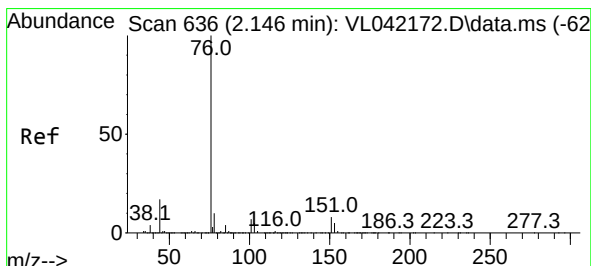
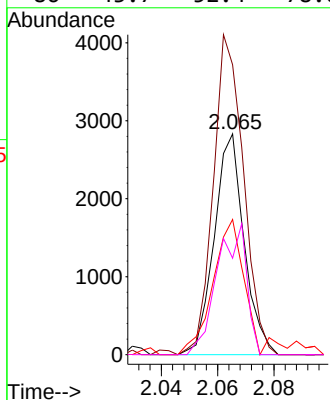
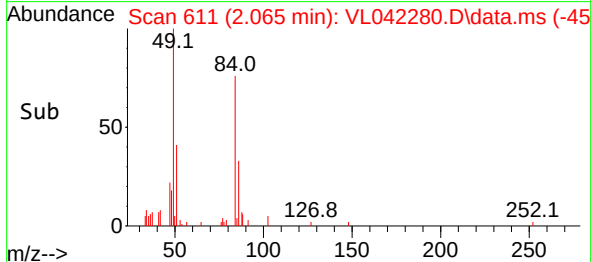
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025DL



Tgt Ion:	84	Resp:	208
Ion Ratio	Lower	Upper	
84	100		
49	131.3	120.2	180.4
51	61.2	37.4	56.0
86	43.7	52.4	78.6

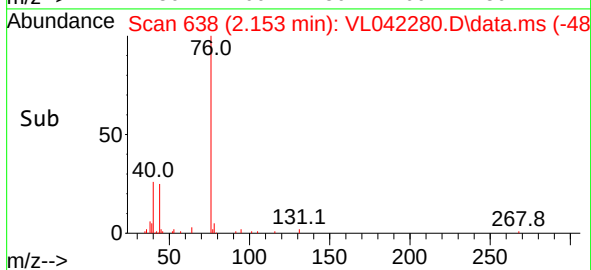
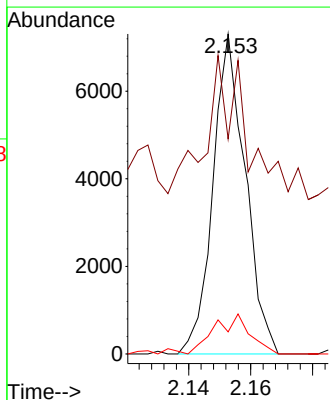
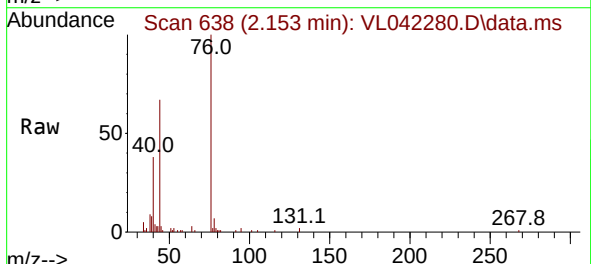
Manual Integrations
APPROVED

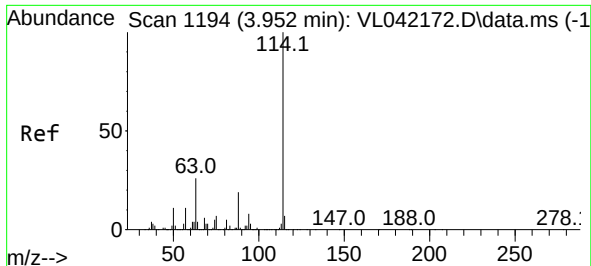
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#27
Carbon Disulfide
Concen: 0.239 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.006 min
Lab File: VL042280.D
Acq: 09 Apr 2025 01:18

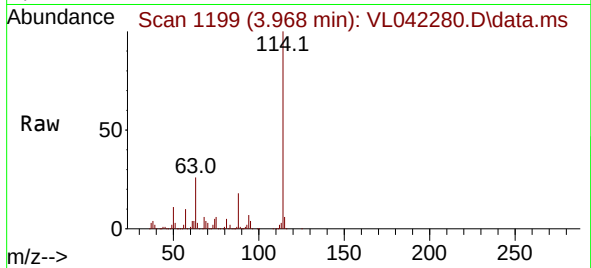
Tgt Ion:	76	Resp:	5281
Ion Ratio	Lower	Upper	
76	100		
44	98.4	14.7	22.1
78	14.8	9.3	13.9





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. 0.016 min
Lab File: VL042280.D
Acq: 09 Apr 2025 01:18

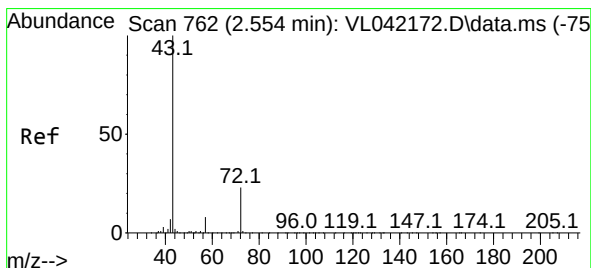
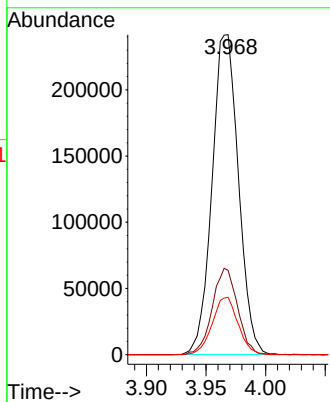
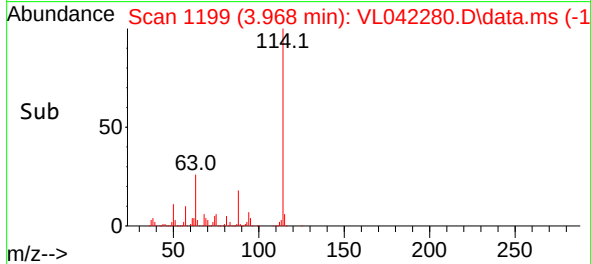
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025DL



Tgt Ion:114 Resp: 371349
Ion Ratio Lower Upper
114 100
63 26.1 20.7 31.1
88 17.6 15.0 22.4

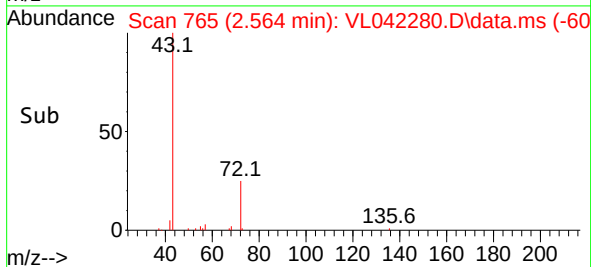
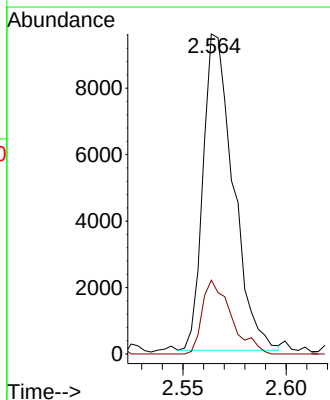
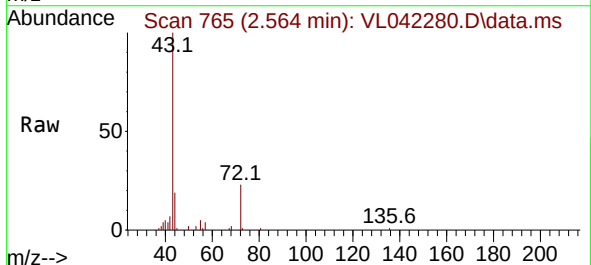
Manual Integrations
APPROVED

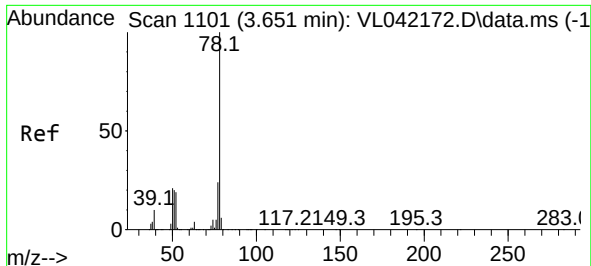
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#34
2-Butanone
Concen: 0.359 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042280.D
Acq: 09 Apr 2025 01:18

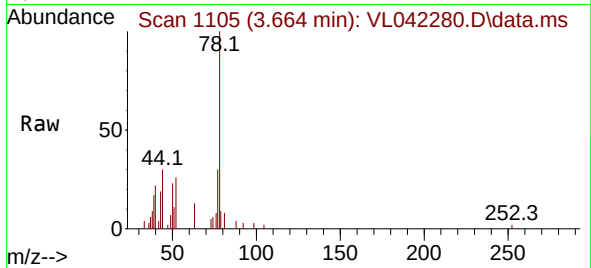
Tgt Ion: 43 Resp: 9672
Ion Ratio Lower Upper
43 100
72 22.4 18.2 27.2





#36
Benzene
Concen: 0.097 ppbv m
RT: 3.664 min Scan# 1105
Delta R.T. 0.013 min
Lab File: VL042280.D
Acq: 09 Apr 2025 01:18

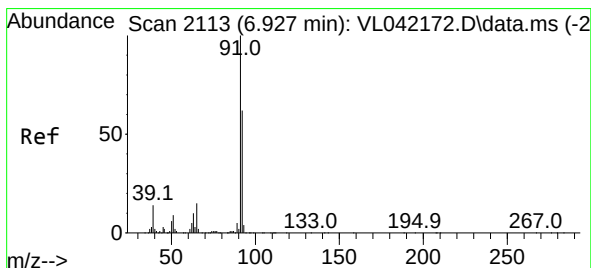
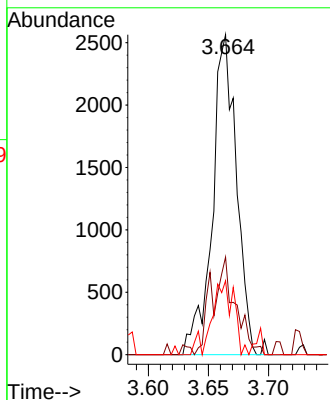
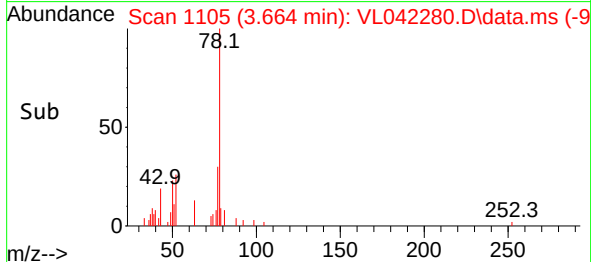
Instrument : MSVOA_L
ClientSampleId : SSSG-B2-7-04022025DL



Tgt Ion: 78 Resp: 3578
Ion Ratio Lower Upper
78 100
77 30.5 19.1 28.7
50 23.1 16.6 24.8

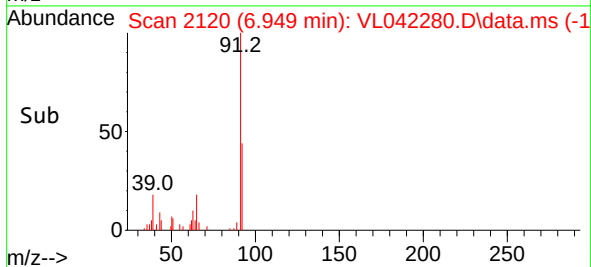
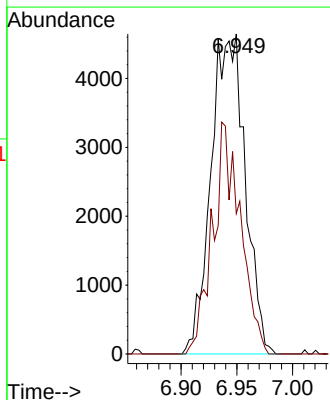
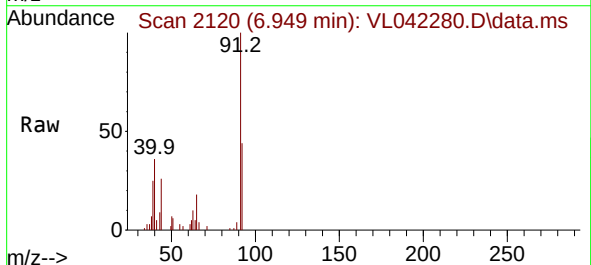
Manual Integrations
APPROVED

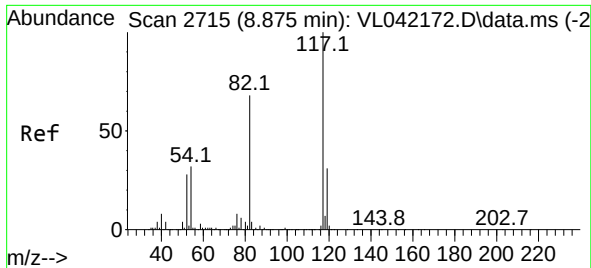
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#53
Toluene
Concen: 0.227 ppbv m
RT: 6.949 min Scan# 2120
Delta R.T. 0.023 min
Lab File: VL042280.D
Acq: 09 Apr 2025 01:18

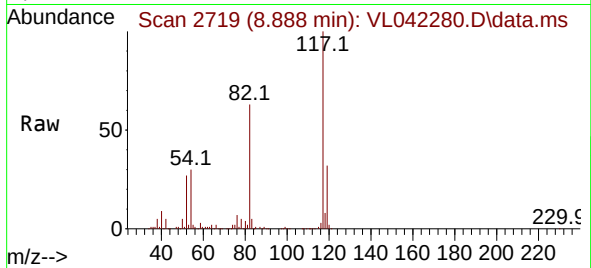
Tgt Ion: 91 Resp: 9897
Ion Ratio Lower Upper
91 100
92 0.0 48.4 72.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042280.D
Acq: 09 Apr 2025 01:18

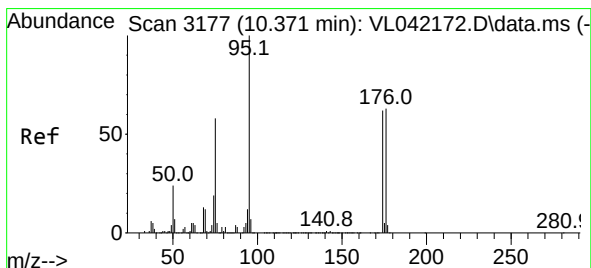
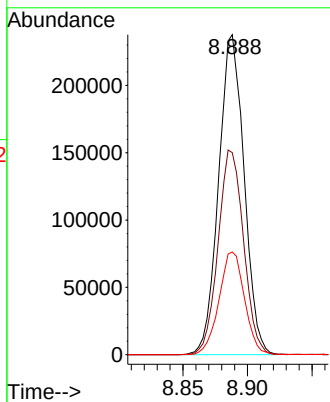
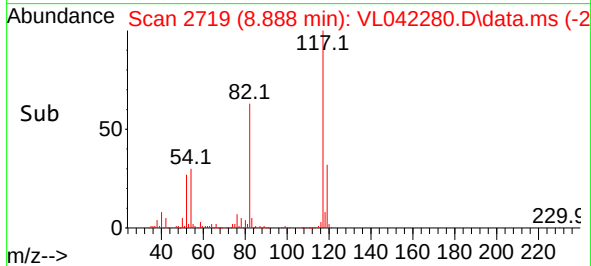
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025DL



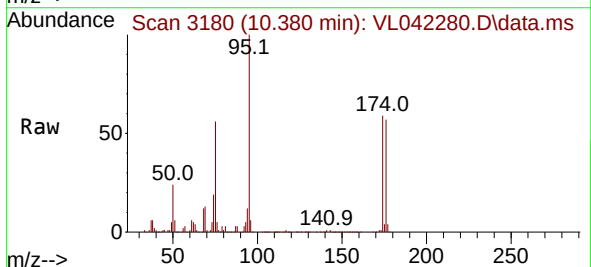
Tgt Ion: 117 Resp: 326259
Ion Ratio Lower Upper
117 100
82 64.1 55.8 83.6
119 32.2 25.5 38.3

Manual Integrations
APPROVED

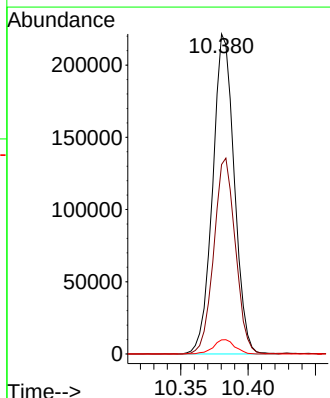
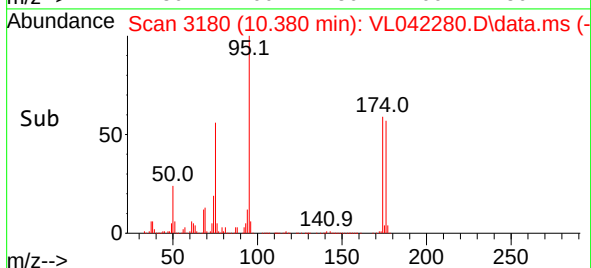
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.217 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.010 min
Lab File: VL042280.D
Acq: 09 Apr 2025 01:18



Tgt Ion: 95 Resp: 246947
Ion Ratio Lower Upper
95 100
174 61.5 50.6 76.0
175 4.4 3.8 5.6



Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/02/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B2-6-04022025	SDG No.:	Q1728
Lab Sample ID:	Q1728-05	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
VL042281.D	4		04/09/25 01:49	VL040825

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	0.59	1.22	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	2.70	8.19		2.30	6.06	ug/m3
142-82-5	Heptane	1.40	5.74	J	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	340	808	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	5.10	17.7		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	18.3	54.0		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	0.33	1.61	U	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	4.40	20.6		1.87	9.34	ug/m3
71-43-2	Benzene	1.20	3.83	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	0.30	1.61		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	0.80	3.28	J	1.52	8.20	ug/m3
108-88-3	Toluene	22.9	86.3		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:	04/02/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B2-6-04022025	SDG No.:	Q1728
Lab Sample ID:	Q1728-05	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
VL042281.D	4		04/09/25 01:49	VL040825

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	0.060	0.41	U	0.41	0.81	ug/m3
108-90-7	Chlorobenzene	0.75	3.45	J	1.38	9.21	ug/m3
100-41-4	Ethyl Benzene	1.10	4.78	J	2.08	8.69	ug/m3
179601-23-1	m/p-Xylene	3.40	14.8	J	3.65	17.4	ug/m3
95-47-6	o-Xylene	1.50	6.52	J	2.08	8.69	ug/m3
100-42-5	Styrene	0.60	2.55	J	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	17.0	88.0		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	0.42	2.06	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	1.80	6.34	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	9.30		70 (65) - 130 (135)	93%	SPK: 10

INTERNAL STANDARDS

74-97-5	Bromochloromethane	154000	2.787
540-36-3	1,4-Difluorobenzene	388000	3.958
3114-55-4	Chlorobenzene-d5	382000	8.881

TENTATIVE IDENTIFIED COMPOUNDS

115-07-1	Propene	3.70	J	1.49	ppbv
000115-11-7	1-Propene, 2-methyl-	15.2	J	1.60	ppbv
64-17-5	Ethanol	110	J	1.72	ppbv

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/02/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B2-6-04022025	SDG No.:	Q1728
Lab Sample ID:	Q1728-05	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
VL042281.D	4		04/09/25 01:49	VL040825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
000107-83-5	Pentane, 2-methyl-	4.10		J		2.48	ppbv
	unknown4.056	6.10		J		4.06	ppbv
002207-01-4	Cyclohexane, 1,2-dimethyl-, cis-	5.50		J		7.62	ppbv
006876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	4.00		J		8.14	ppbv
000583-57-3	Cyclohexane, 1,2-dimethyl- (cis/tr	4.40		J		8.31	ppbv
001072-05-5	Heptane, 2,6-dimethyl-	5.90		J		9.00	ppbv
015869-80-4	Heptane, 3-ethyl-	7.80		J		9.15	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 : VL042281.D
 Acq On : 09 Apr 2025 01:49
 Operator : SY/MD
 Sample : Q1728-05 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-6-04022025

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
 Supervised By :Semsettin Yesilyurt 04/10/2025

Quant Time: Apr 09 05:21:35 2025

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

Quant Title : AIR ANALYSIS BY METHOD TO-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	2.787	49	153705	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.958	114	388271	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	381682	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	292407	9.329	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	3000	0.132	ppbv	89
4) Chloromethane	1.534	50	1372	0.148	ppbv #	85
9) Propene	1.486	41	9825	0.925	ppbv #	15
10) Heptane	4.985	43	10112	0.358	ppbv	89
13) Ethanol	1.722	45	27425	27.301	ppbv	84
15) Acetone	1.835	43	1817333	84.541	ppbv #	87
17) tert-Butyl alcohol	2.042	59	18264	0.682	ppbv	95
20) Methylene Chloride	2.062	84	10120	1.264	ppbv #	81
26) Hexane	2.829	57	9763	0.453	ppbv #	32
30) Cyclohexane	3.858	84	3921	0.210	ppbv #	82
34) 2-Butanone	2.560	43	128691	4.571	ppbv	95
36) Benzene	3.658	78	11702	0.304	ppbv #	93
38) Trichloroethene	4.554	130	1226m	0.076	ppbv	
44) 2,2,4-Trimethylpentane	4.641	57	71853	1.105	ppbv #	79
50) 4-Methyl-2-Pentanone	5.781	43	8864m	0.199	ppbv	
53) Toluene	6.933	91	261772	5.737	ppbv	98
57) Chlorobenzene	8.920	112	6785	0.187	ppbv #	95
58) Ethyl Benzene	9.354	91	19066	0.281	ppbv	93
59) m/p-Xylene	9.532	91	46011	0.850	ppbv	98
60) o-Xylene	9.962	91	20160	0.371	ppbv	99
61) Styrene	9.872	104	4043	0.151	ppbv #	90
71) 2-Chlorotoluene	10.904	91	267528	4.247	ppbv	98
74) 1,2,4-Trimethylbenzene	11.535	105	7115	0.105	ppbv #	66

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

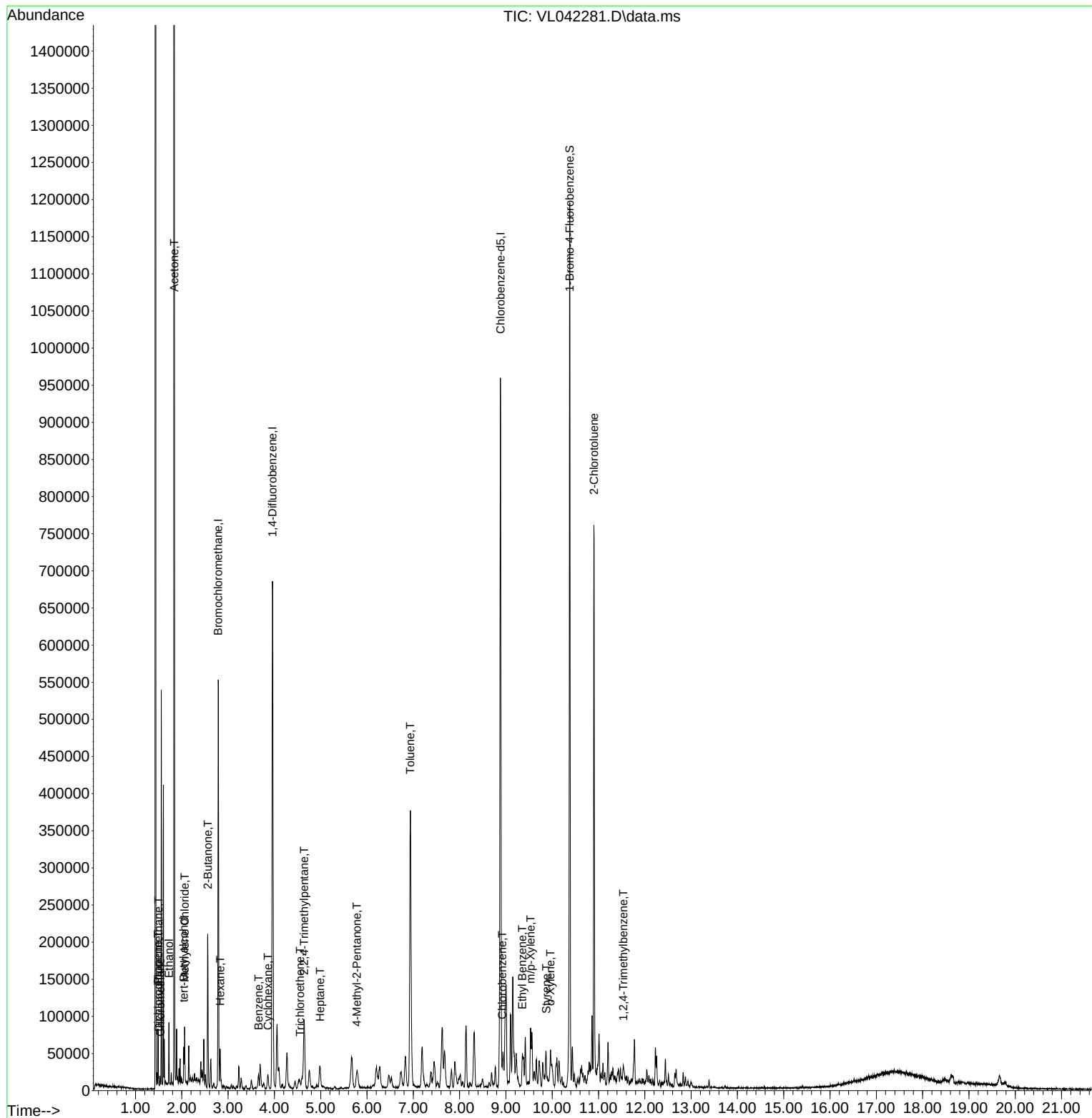
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042281.D
Acq On : 09 Apr 2025 01:49
Operator : SY/MD
Sample : Q1728-05 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

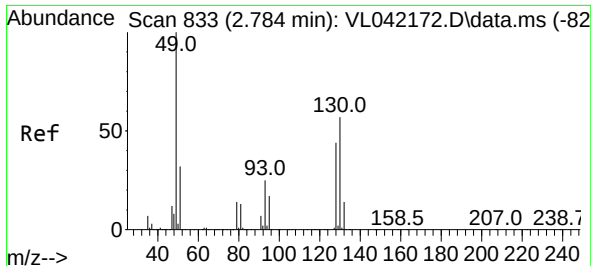
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025

Quant Time: Apr 09 05:21:35 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

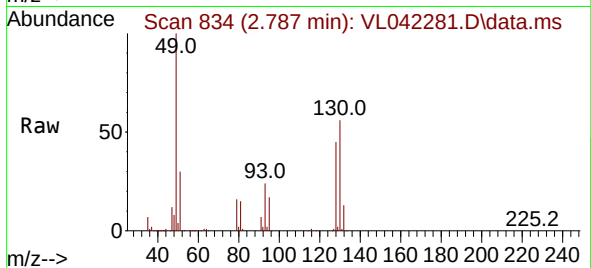
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

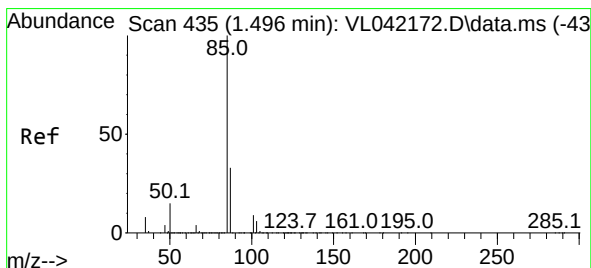
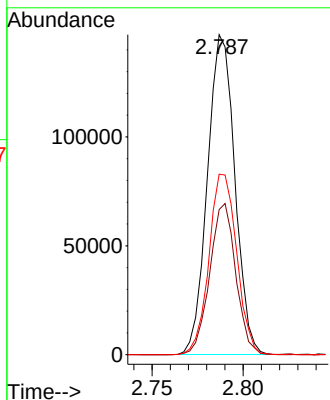
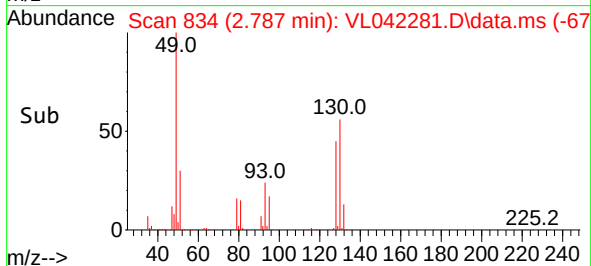
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025



Tgt Ion: 49 Resp: 15370
Ion Ratio Lower Upper
49 100
128 44.9 22.9 68.5
130 57.1 28.8 86.4

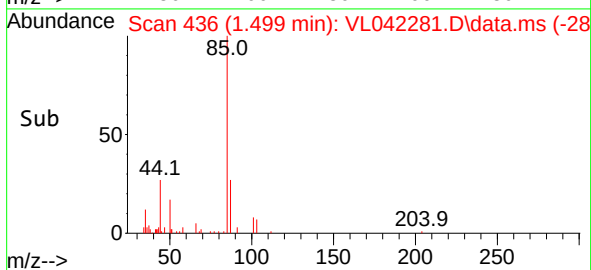
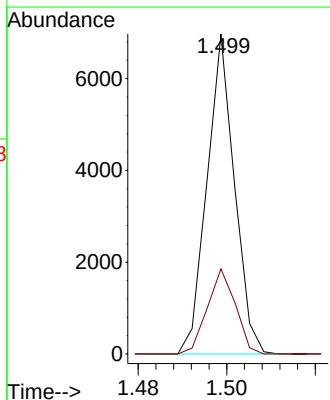
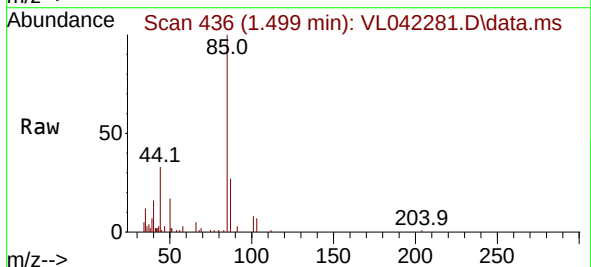
Manual Integrations
APPROVED

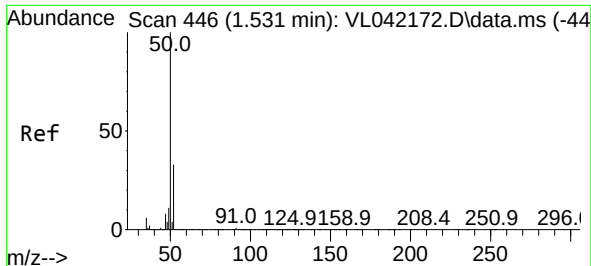
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#2
Dichlorodifluoromethane
Concen: 0.132 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

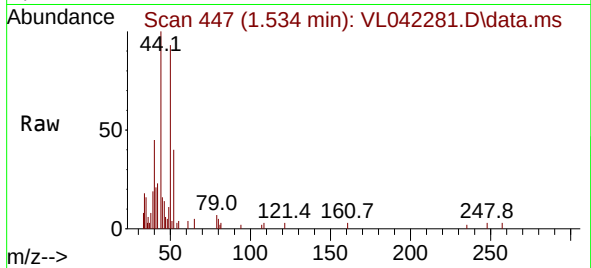
Tgt Ion: 85 Resp: 3000
Ion Ratio Lower Upper
85 100
87 26.6 26.1 39.1





#4
Chloromethane
Concen: 0.148 ppbv
RT: 1.534 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

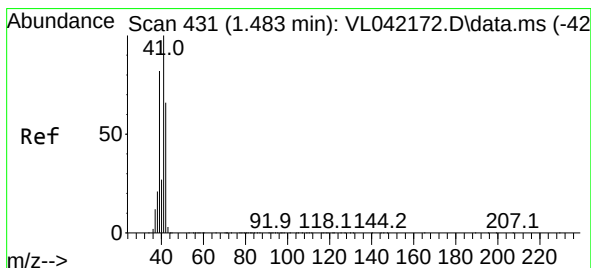
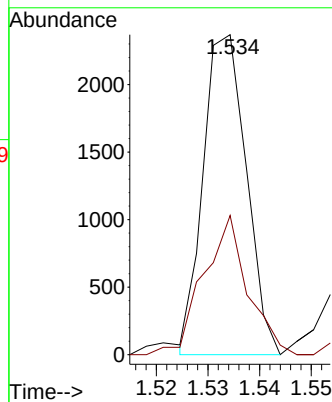
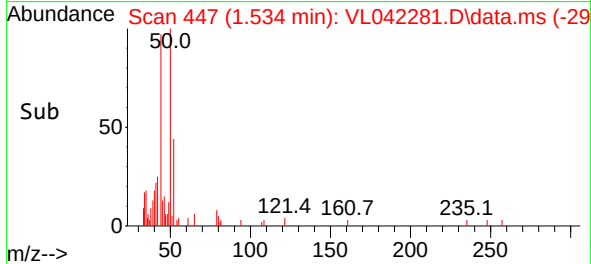
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025



Tgt Ion: 50 Resp: 1372
Ion Ratio Lower Upper
50 100
52 41.2 26.1 39.1

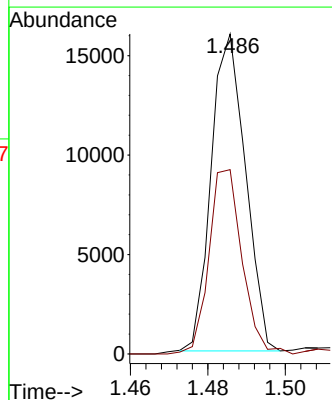
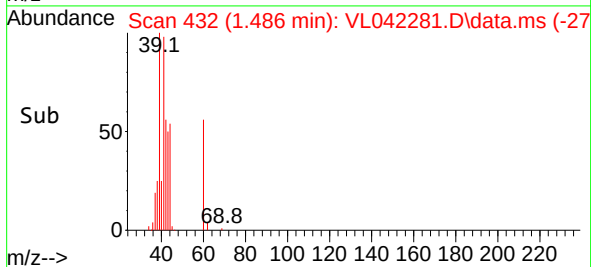
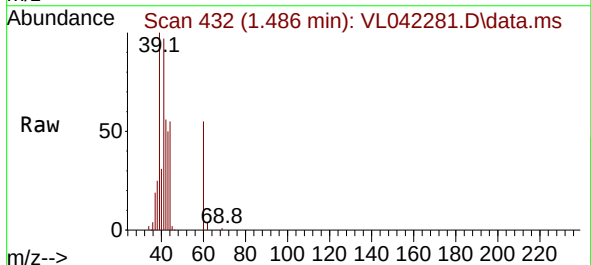
Manual Integrations
APPROVED

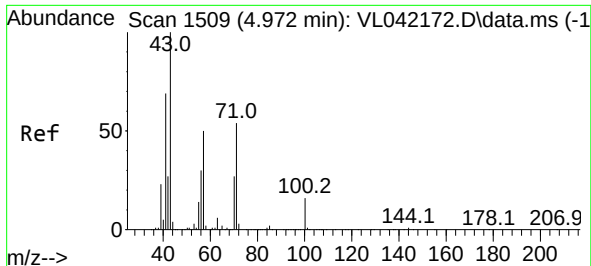
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#9
Propene
Concen: 0.925 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

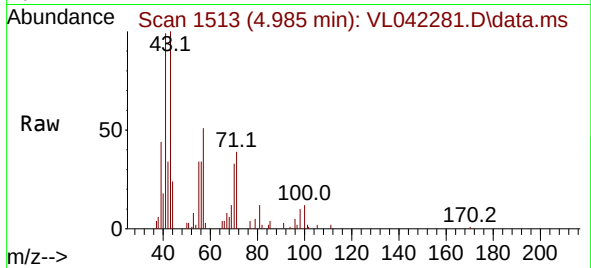
Tgt Ion: 41 Resp: 9825
Ion Ratio Lower Upper
41 100
42 0.0 55.4 83.2





#10
Heptane
Concen: 0.358 ppbv
RT: 4.985 min Scan# 11
Delta R.T. 0.013 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

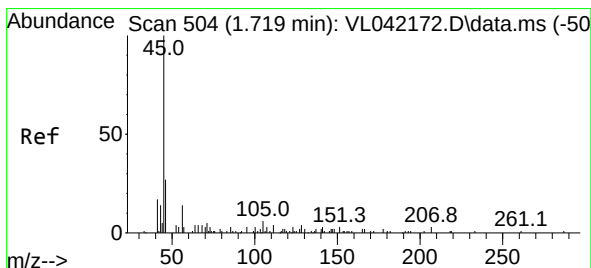
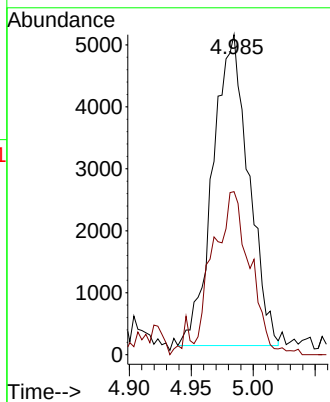
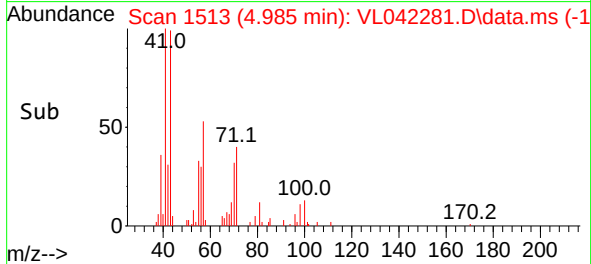
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025



Tgt Ion: 43 Resp: 1011
Ion Ratio Lower Upper
43 100
57 56.7 39.4 59.2

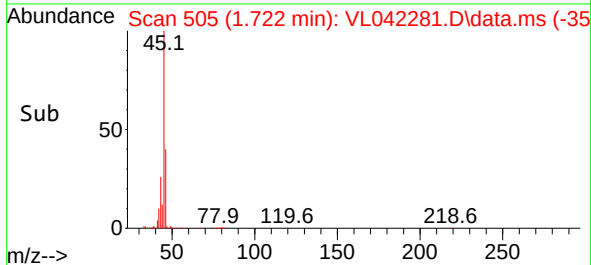
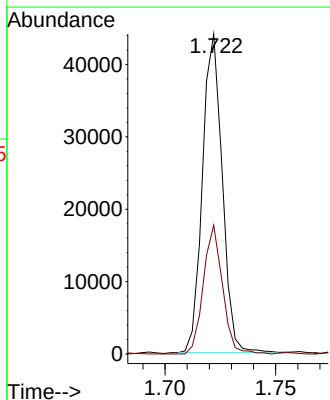
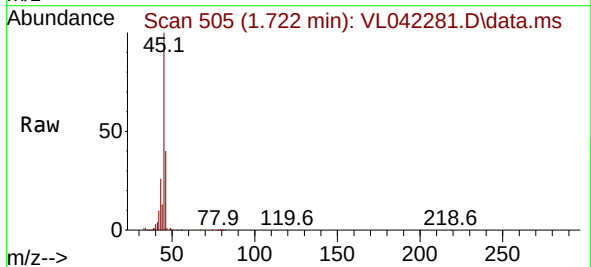
Manual Integrations
APPROVED

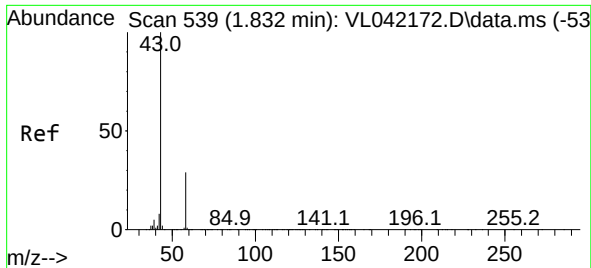
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#13
Ethanol
Concen: 27.301 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

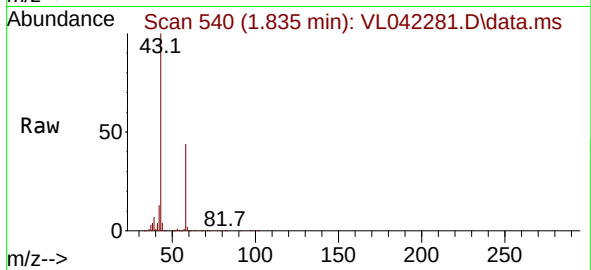
Tgt Ion: 45 Resp: 27425
Ion Ratio Lower Upper
45 100
46 39.7 20.2 80.8





#15
Acetone
Concen: 84.541 ppbv
RT: 1.835 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

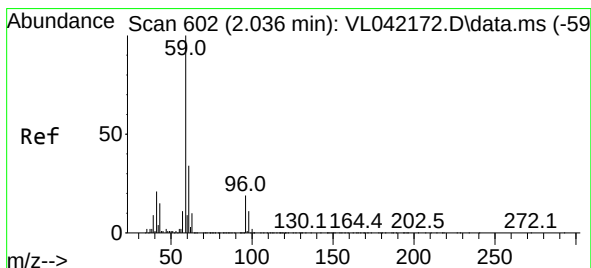
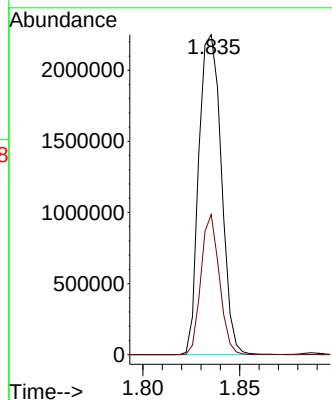
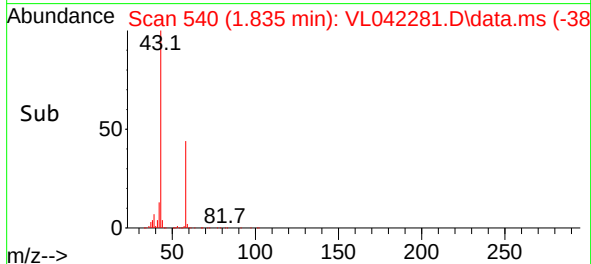
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025



Tgt Ion: 43 Resp: 1817333
Ion Ratio Lower Upper
43 100
58 36.1 23.2 34.8

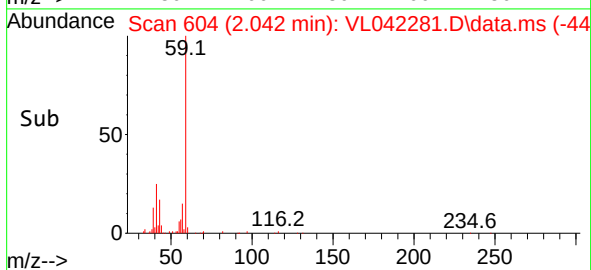
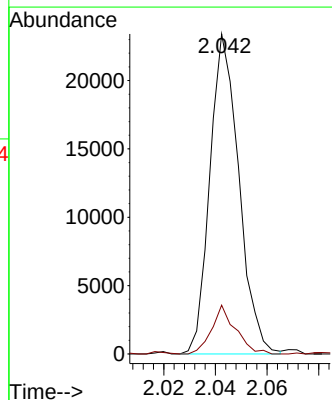
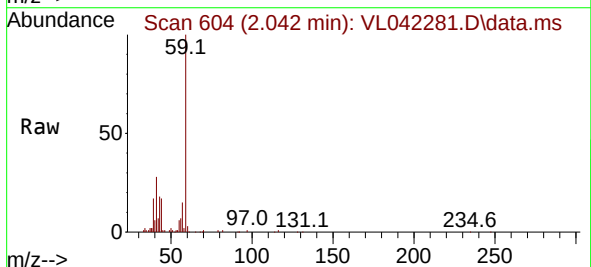
Manual Integrations
APPROVED

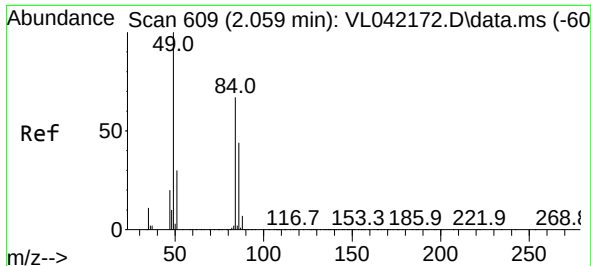
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#17
tert-Butyl alcohol
Concen: 0.682 ppbv
RT: 2.042 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

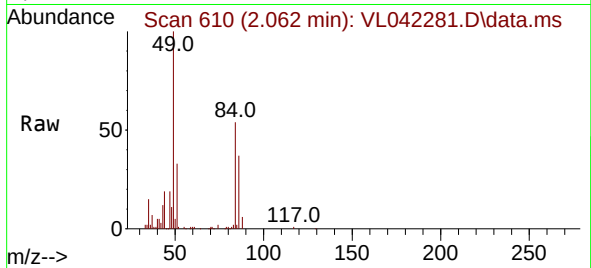
Tgt Ion: 59 Resp: 18264
Ion Ratio Lower Upper
59 100
57 13.0 8.9 13.3





#20
Methylene Chloride
Concen: 1.264 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

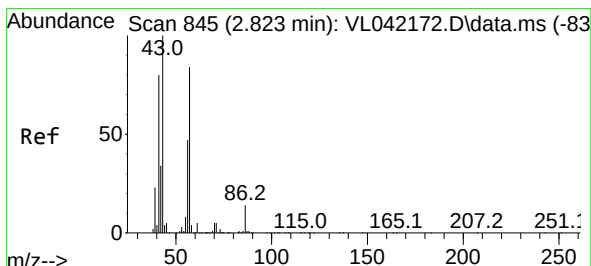
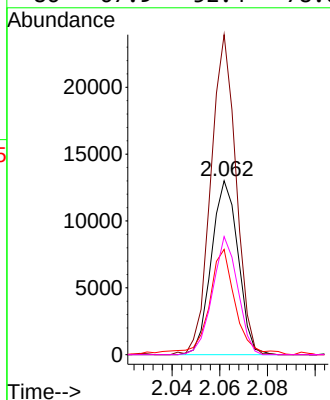
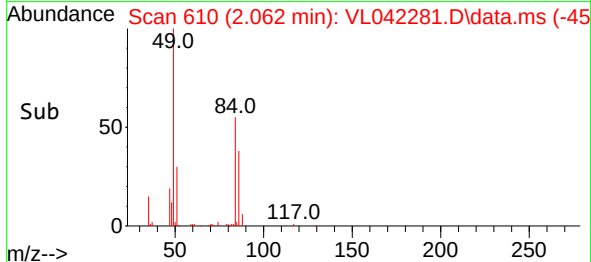
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025



Tgt Ion: 84	Resp: 10120
Ion Ratio	Lower Upper
84	100
49	184.0 120.2 180.4
51	58.7 37.4 56.0
86	67.9 52.4 78.6

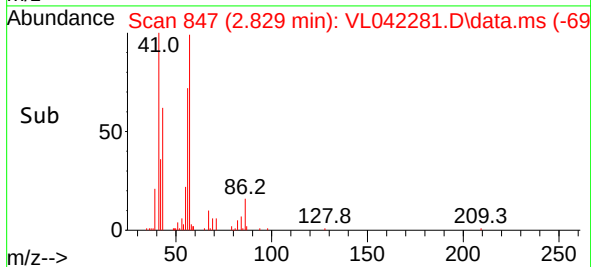
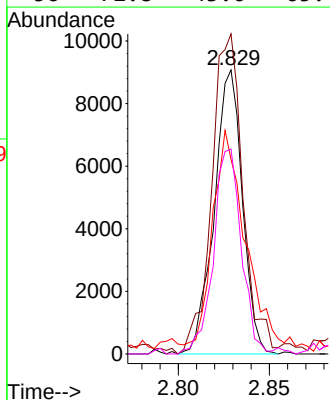
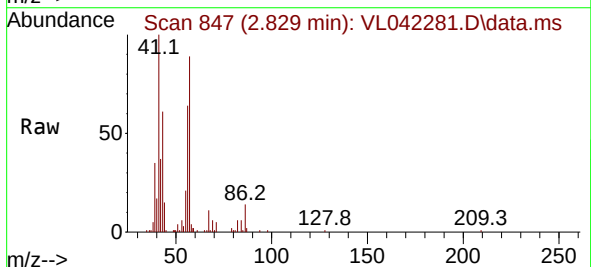
Manual Integrations
APPROVED

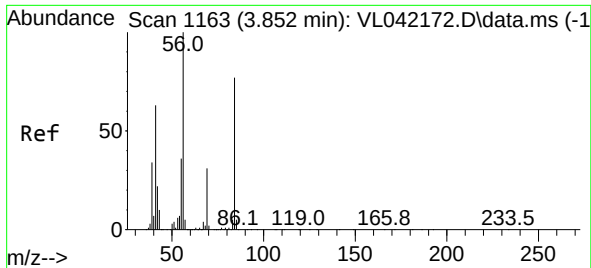
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#26
Hexane
Concen: 0.453 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.006 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

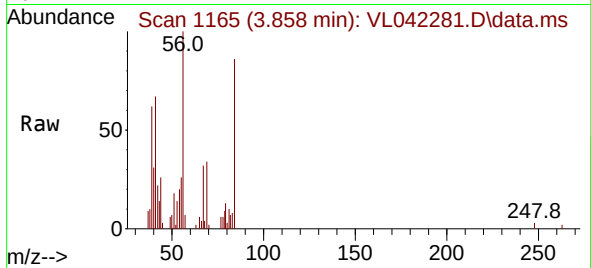
Tgt Ion: 57	Resp: 9763
Ion Ratio	Lower Upper
57	100
41	119.4 76.6 114.8#
43	92.8 207.8 311.8#
56	72.8 43.6 65.4#





#30
Cyclohexane
Concen: 0.210 ppbv
RT: 3.858 min Scan# 1163
Delta R.T. 0.006 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

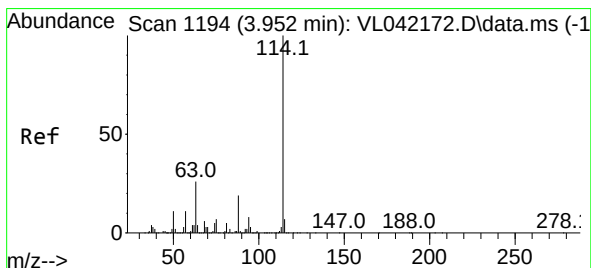
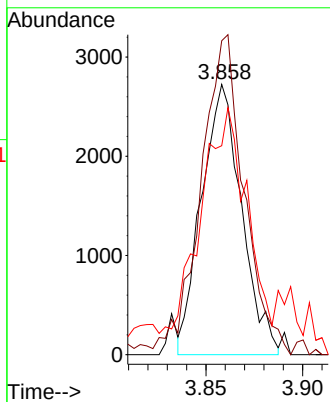
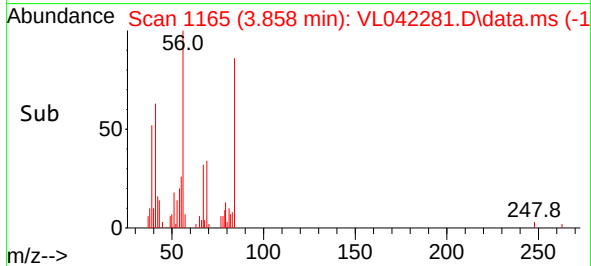
Instrument : MSVOA_L
ClientSampleId : SSSG-B2-6-04022025



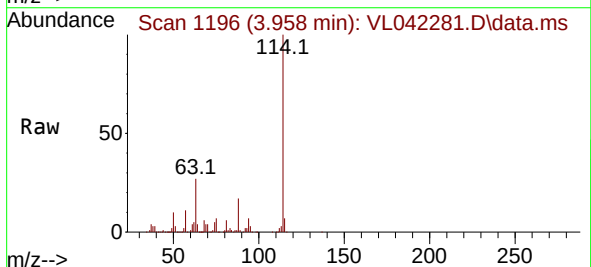
Tgt Ion: 84 Resp: 392
Ion Ratio Lower Upper
84 100
56 129.2 102.8 154.2
41 122.6 66.5 99.7

Manual Integrations
APPROVED

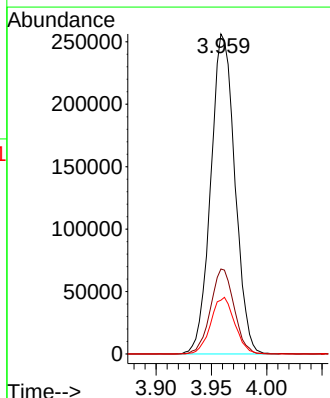
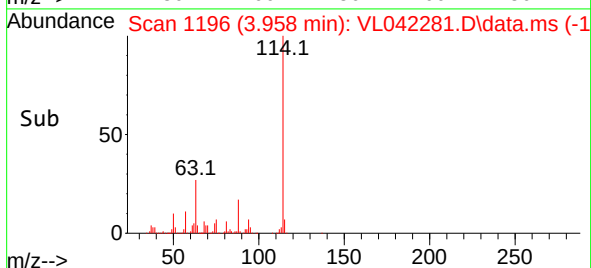
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

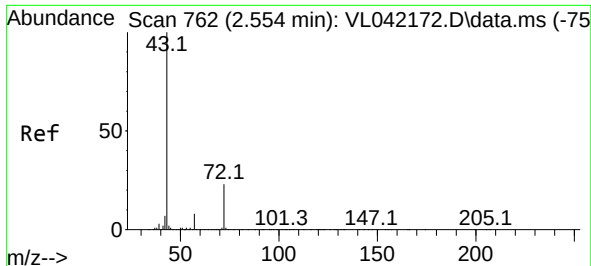


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.958 min Scan# 1196
Delta R.T. 0.006 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49



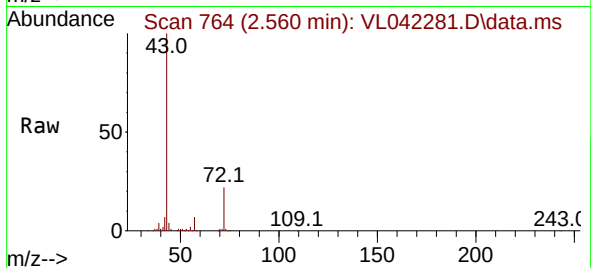
Tgt Ion:114 Resp: 388271
Ion Ratio Lower Upper
114 100
63 26.1 20.7 31.1
88 17.6 15.0 22.4





#34
2-Butanone
Concen: 4.571 ppbv
RT: 2.560 min Scan# 71
Delta R.T. 0.006 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

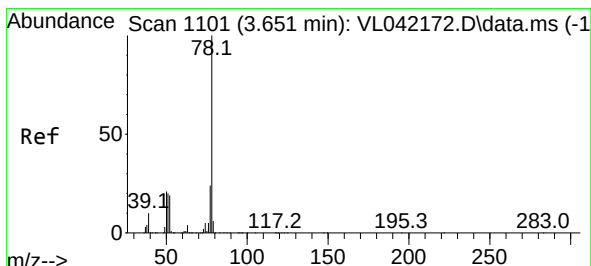
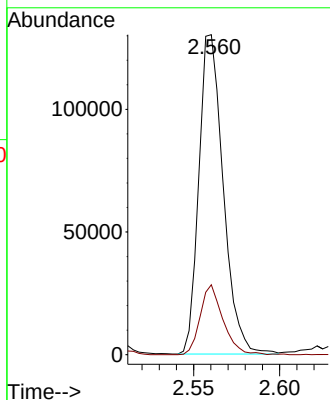
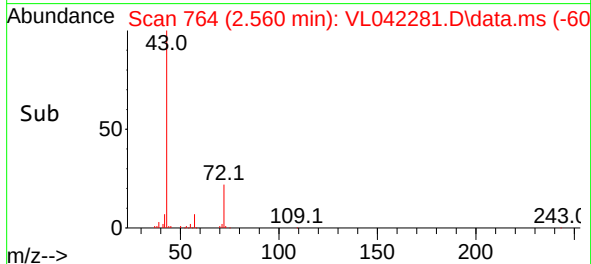
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025



Tgt Ion: 43 Resp: 12869
Ion Ratio Lower Upper
43 100
72 20.5 18.2 27.2

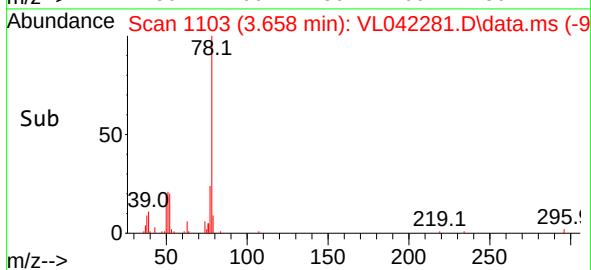
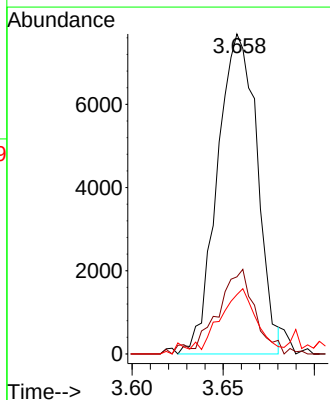
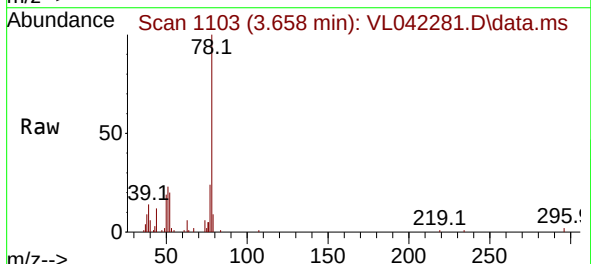
Manual Integrations
APPROVED

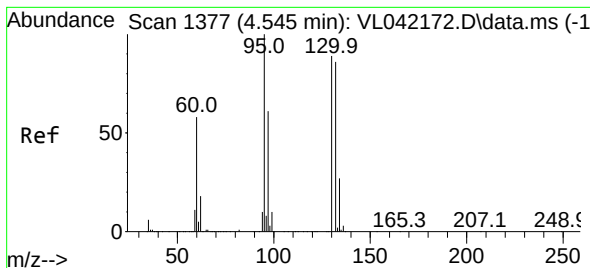
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#36
Benzene
Concen: 0.304 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.006 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

Tgt Ion: 78 Resp: 11702
Ion Ratio Lower Upper
78 100
77 21.4 19.1 28.7
50 16.2 16.6 24.8#





#38

Trichloroethene

Concen: 0.076 ppbv m

RT: 4.554 min Scan# 1380

Delta R.T. 0.009 min

Lab File: VL042281.D

Acq: 09 Apr 2025 01:49

Instrument :

MSVOA_L

ClientSampleId :

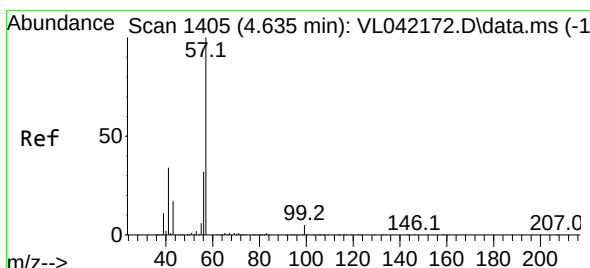
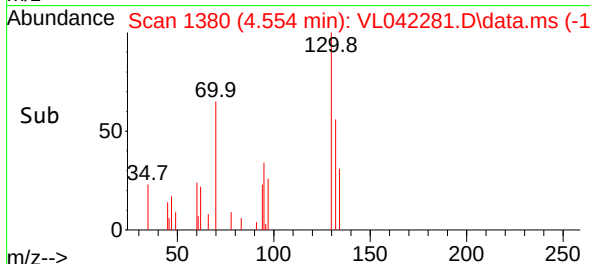
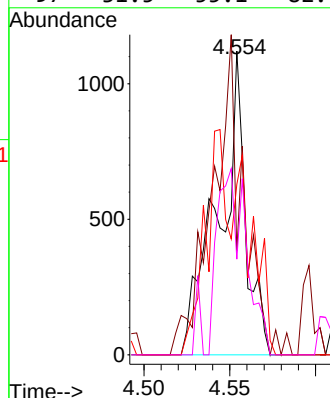
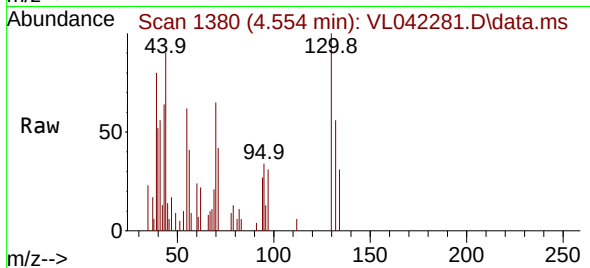
SSSG-B2-6-04022025

Tgt Ion:	130	Resp:	1220
Ion Ratio	Lower	Upper	
130	100		
95	34.3	89.8	134.8
132	56.1	77.4	116.2
97	31.5	55.1	82.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#44

2,2,4-Trimethylpentane

Concen: 1.105 ppbv

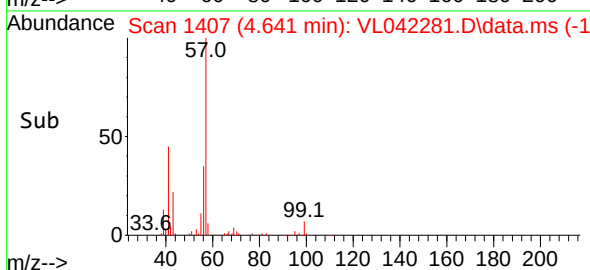
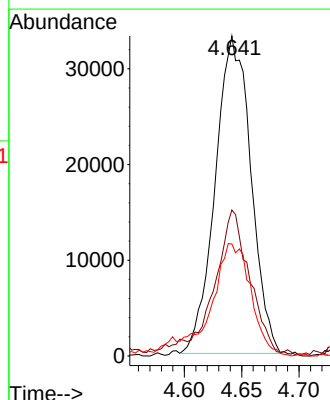
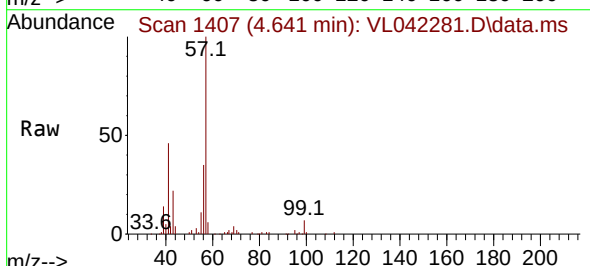
RT: 4.641 min Scan# 1407

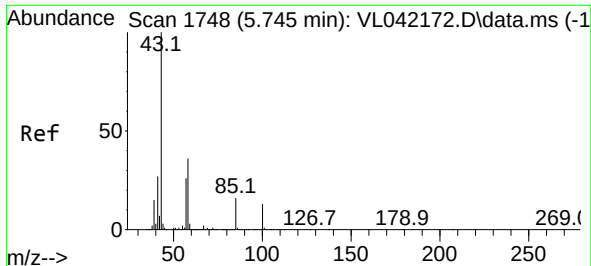
Delta R.T. 0.006 min

Lab File: VL042281.D

Acq: 09 Apr 2025 01:49

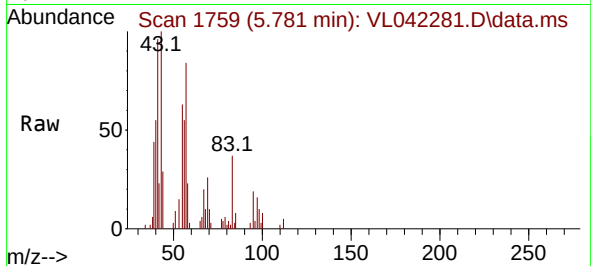
Tgt Ion:	57	Resp:	71853
Ion Ratio	Lower	Upper	
57	100		
41	47.1	26.8	40.2
56	41.7	25.6	38.4





#50
4-Methyl-2-Pentanone
Concen: 0.199 ppbv m
RT: 5.781 min Scan# 1759
Delta R.T. 0.035 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

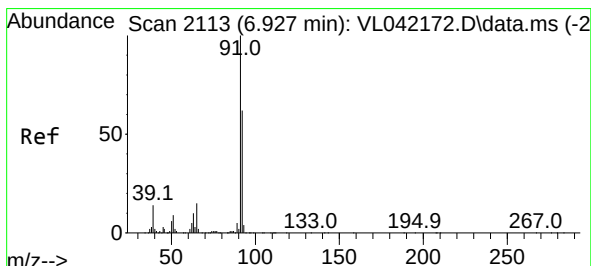
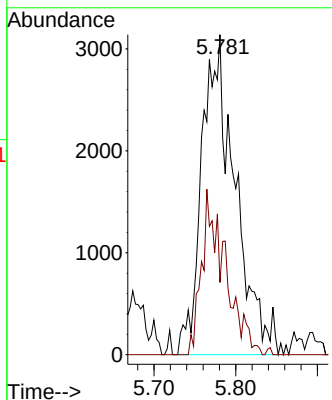
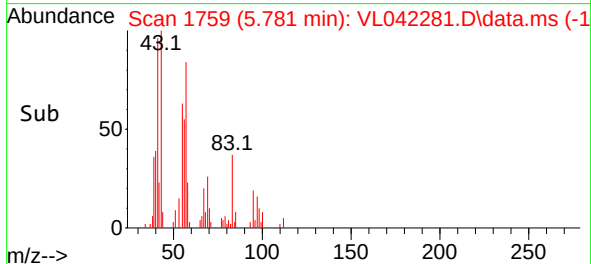
Instrument : MSVOA_L
ClientSampleId : SSSG-B2-6-04022025



Tgt Ion: 43 Resp: 8864
Ion Ratio Lower Upper
43 100
58 0.0 29.0 43.6

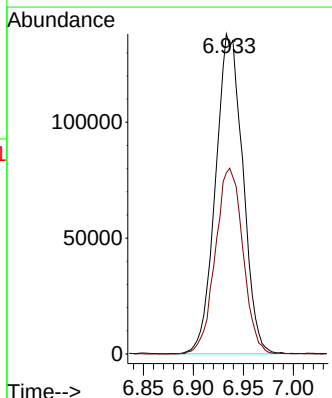
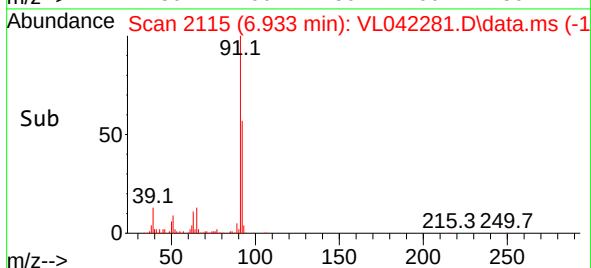
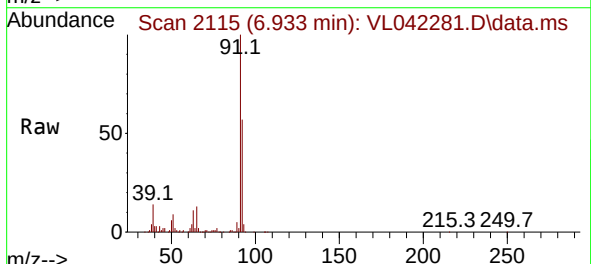
Manual Integrations
APPROVED

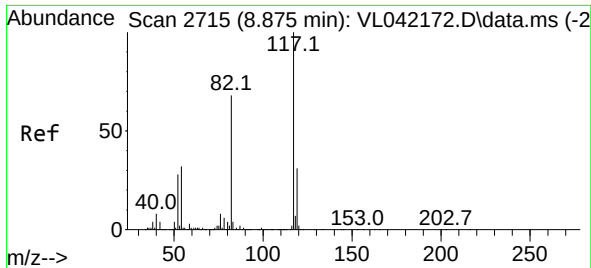
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#53
Toluene
Concen: 5.737 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.006 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

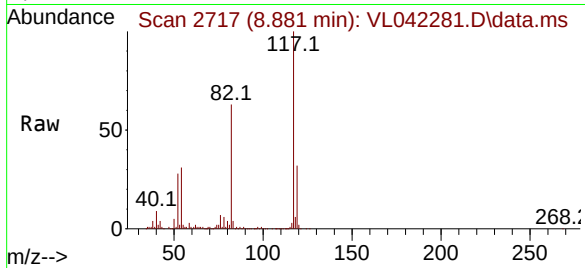
Tgt Ion: 91 Resp: 261772
Ion Ratio Lower Upper
91 100
92 59.0 48.4 72.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2715
Delta R.T. 0.006 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

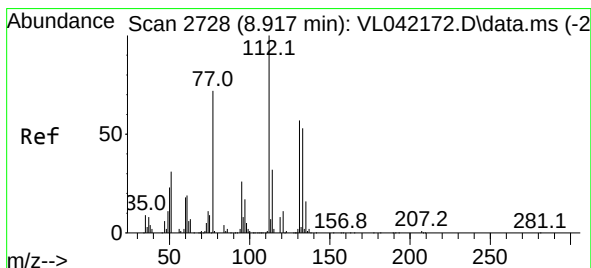
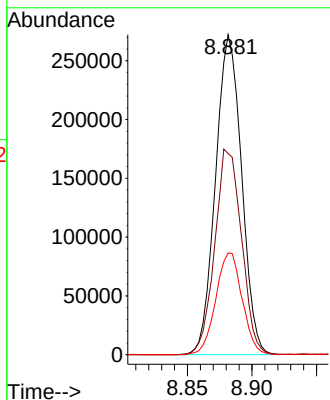
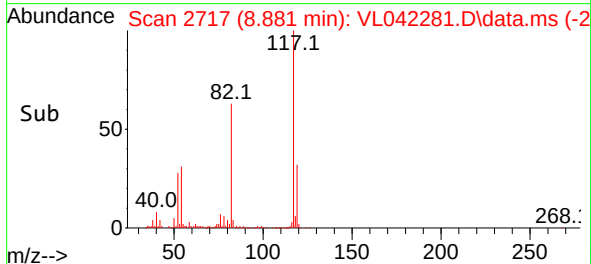
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025



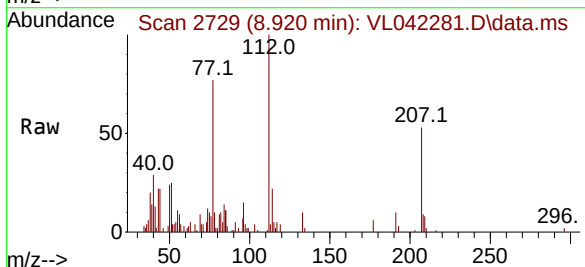
Tgt Ion:117 Resp: 38168
Ion Ratio Lower Upper
117 100
82 66.0 55.8 83.6
119 32.2 25.5 38.3

Manual Integrations
APPROVED

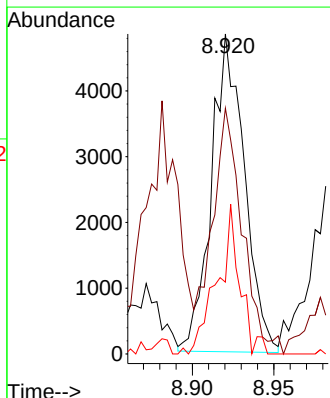
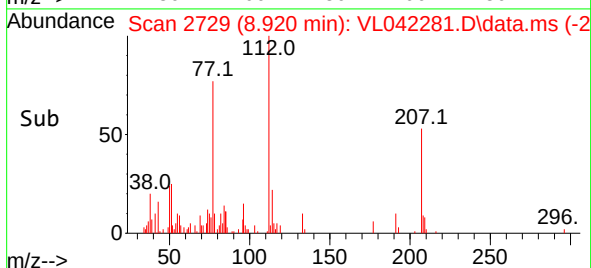
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

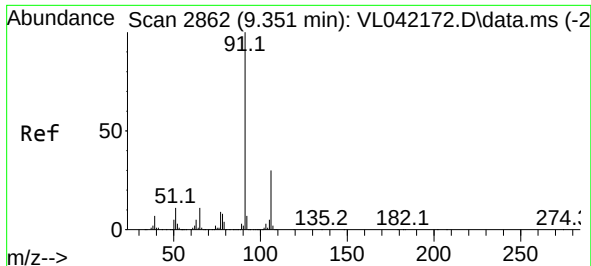


#57
Chlorobenzene
Concen: 0.187 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49



Tgt Ion:112 Resp: 6785
Ion Ratio Lower Upper
112 100
77 72.9 58.2 87.2
114 23.0 29.1 35.5#





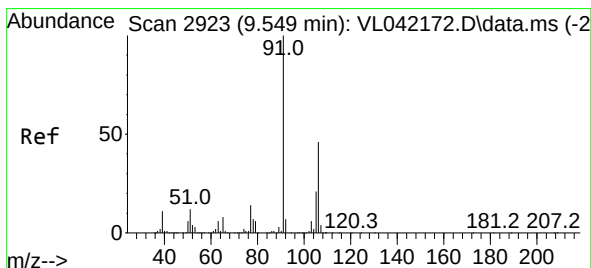
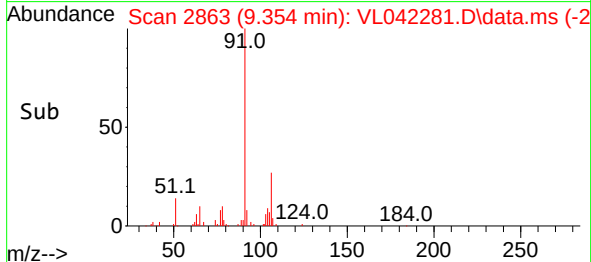
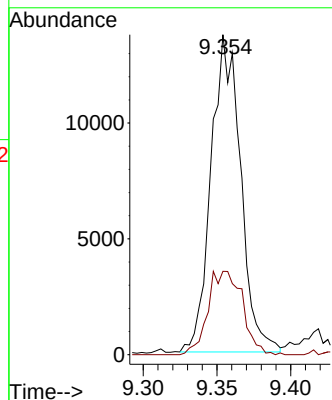
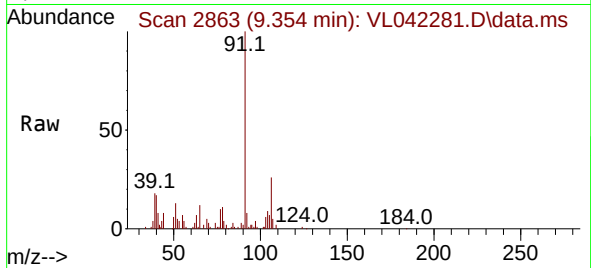
#58
Ethyl Benzene
Concen: 0.281 ppbv
RT: 9.354 min Scan# 218
Delta R.T. 0.003 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025

Tgt Ion: 91 Resp: 1906
Ion Ratio Lower Upper
91 100
106 26.3 24.2 36.2

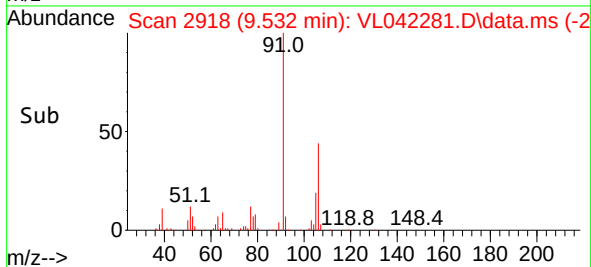
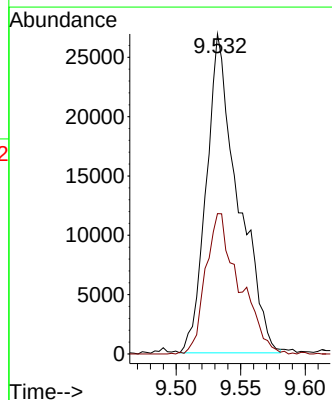
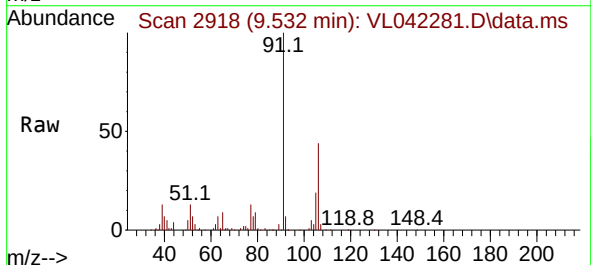
Manual Integrations
APPROVED

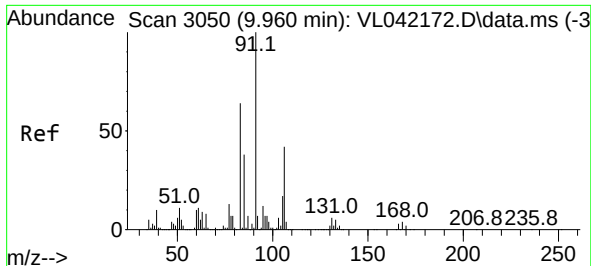
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#59
m/p-Xylene
Concen: 0.850 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. -0.017 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

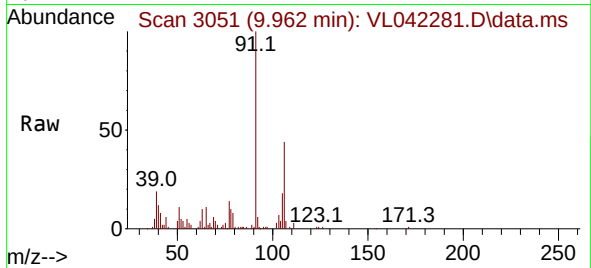
Tgt Ion: 91 Resp: 46011
Ion Ratio Lower Upper
91 100
106 47.0 36.4 54.6





#60
o-Xylene
Concen: 0.371 ppbv
RT: 9.962 min Scan# 3050
Delta R.T. 0.003 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

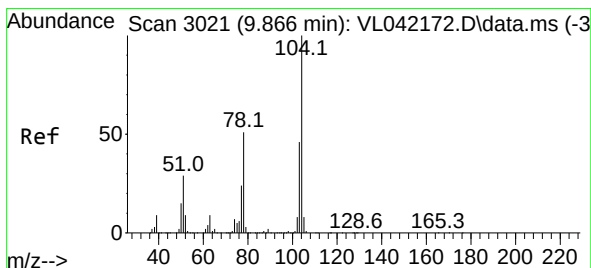
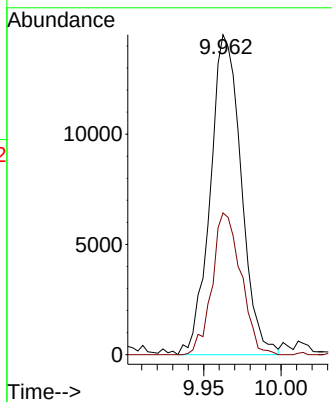
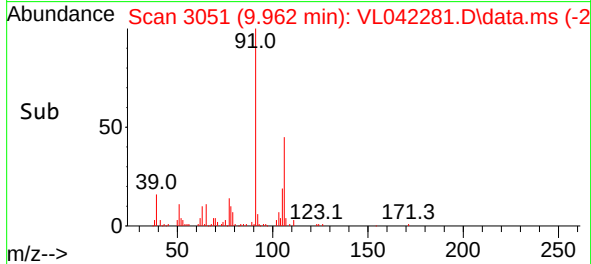
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025



Tgt Ion: 91 Resp: 20160
Ion Ratio Lower Upper
91 100
106 41.4 20.8 62.5

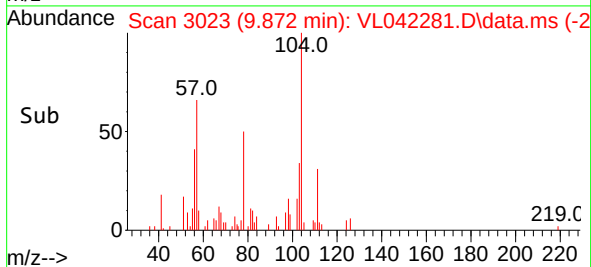
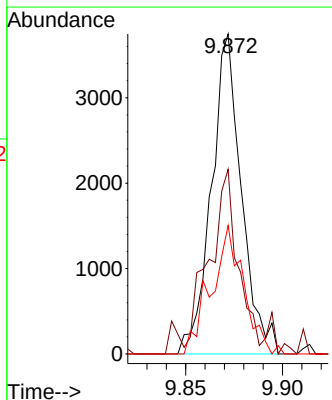
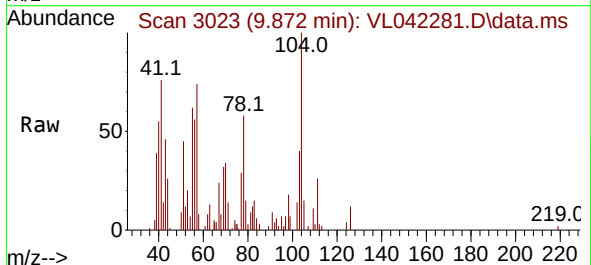
Manual Integrations
APPROVED

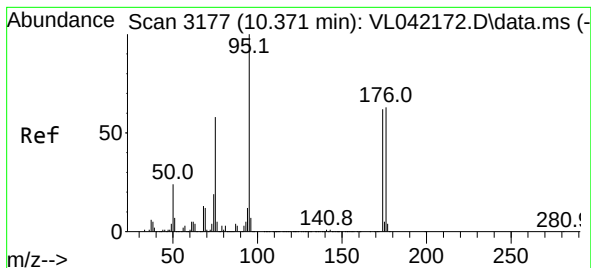
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#61
Styrene
Concen: 0.151 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.006 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

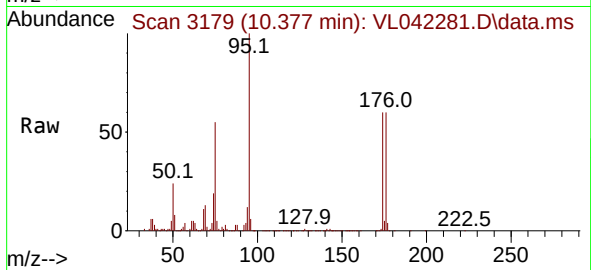
Tgt Ion:104 Resp: 4043
Ion Ratio Lower Upper
104 100
78 63.1 41.8 62.6#
103 43.3 37.0 55.4





#68
1-Bromo-4-Fluorobenzene
Concen: 9.329 ppbv
RT: 10.377 min Scan# 3177
Delta R.T. 0.006 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

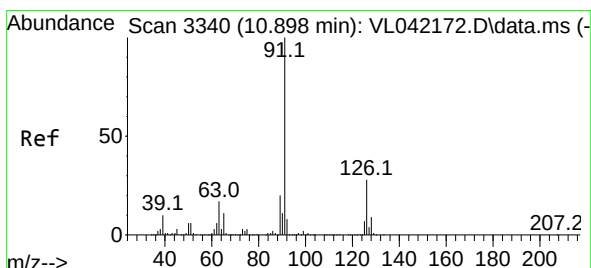
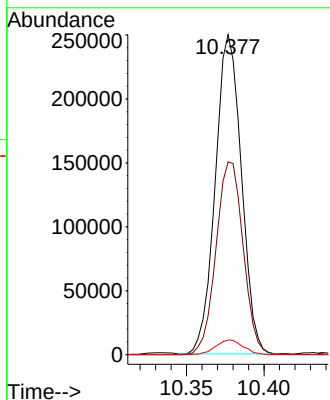
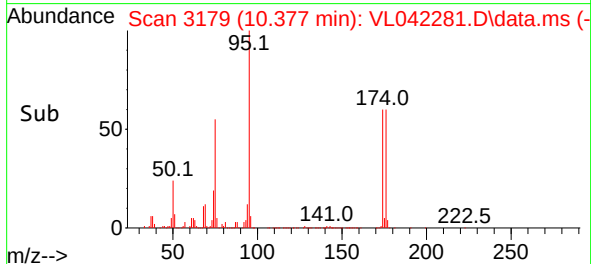
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025



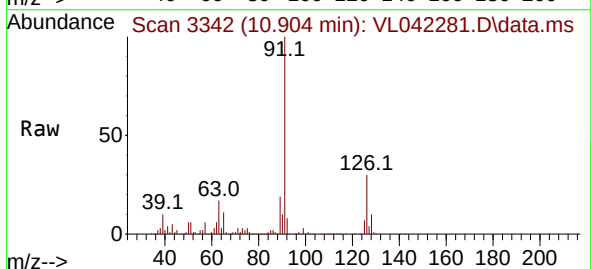
Tgt Ion: 95 Resp: 29240
Ion Ratio Lower Upper
95 100
174 63.0 50.6 76.0
175 4.9 3.8 5.6

Manual Integrations
APPROVED

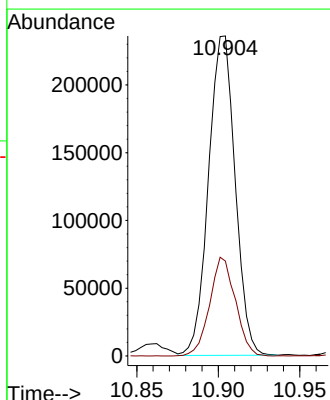
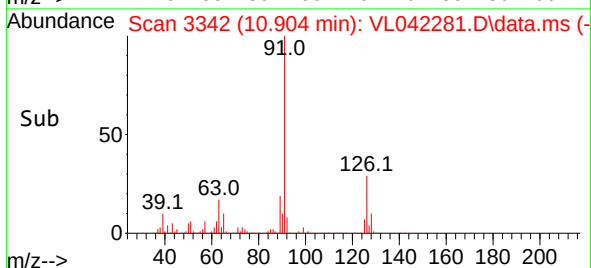
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

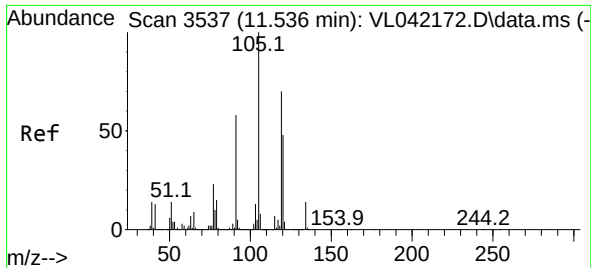


#71
2-Chlorotoluene
Concen: 4.247 ppbv
RT: 10.904 min Scan# 3342
Delta R.T. 0.006 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49



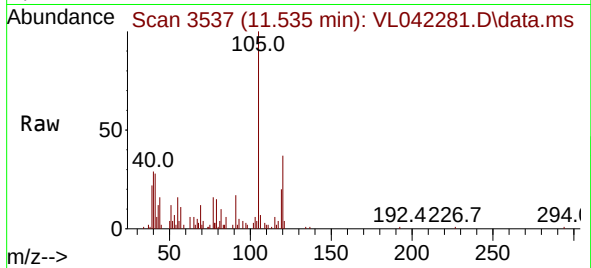
Tgt Ion: 91 Resp: 267528
Ion Ratio Lower Upper
91 100
126 29.9 11.6 46.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.105 ppbv
 RT: 11.535 min Scan# 3537
 Delta R.T. -0.000 min
 Lab File: VL042281.D
 Acq: 09 Apr 2025 01:49

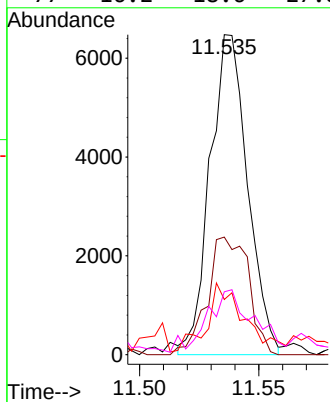
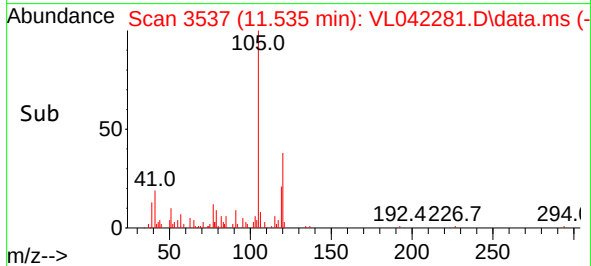
Instrument : MSVOA_L
 ClientSampleId : SSSG-B2-6-04022025



Tgt Ion:	105	Resp:	711
Ion	Ratio	Lower	Upper
105	100		
120	36.4	38.6	58.0
91	16.3	46.2	69.2
77	16.2	18.6	27.8

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
 Supervised By :Semsettin Yesilyurt 04/10/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042281.D
 Acq On : 09 Apr 2025 01:49
 Operator : SY/MD
 Sample : Q1728-05 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-6-04022025

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: VL042281.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	410	415	420	rBV	3363868	2981239	94.30%	16.851%
2	1.486	428	432	441	rVB4	76721	53419	1.69%	0.302%
3	1.557	450	454	460	rBV	531517	299935	9.49%	1.695%
4	1.602	463	468	471	rBV	403213	218424	6.91%	1.235%
5	1.722	500	505	510	rVB	82428	49786	1.57%	0.281%
6	1.835	535	540	548	rBV	4204413	3161343	100.00%	17.869%
7	1.887	551	556	560	rVV	68890	45778	1.45%	0.259%
8	2.062	607	610	615	rVB	71804	49702	1.57%	0.281%
9	2.149	632	637	643	rBV	49514	42377	1.34%	0.240%
10	2.476	732	738	744	rVB	60573	59443	1.88%	0.336%
11	2.560	758	764	774	rBV	207336	204981	6.48%	1.159%
12	2.628	777	785	793	rVB2	39065	49843	1.58%	0.282%
13	2.787	823	834	842	rBV	548305	575252	18.20%	3.252%
14	2.826	842	846	860	rVB5	52594	68555	2.17%	0.387%
15	3.690	1109	1113	1128	rVB4	30125	47192	1.49%	0.267%
16	3.959	1182	1196	1212	rBV	683126	1046399	33.10%	5.915%
17	4.056	1215	1226	1235	rVV3	86093	158612	5.02%	0.897%
18	4.098	1235	1239	1253	rVB4	27455	43041	1.36%	0.243%
19	4.269	1278	1292	1303	rBV5	47576	94952	3.00%	0.537%
20	4.641	1386	1407	1423	rVB2	92194	228523	7.23%	1.292%
21	4.751	1432	1441	1455	rBV4	23327	50272	1.59%	0.284%
22	4.985	1500	1513	1524	rBV6	27906	57837	1.83%	0.327%
23	5.664	1707	1723	1725	rBV7	40547	64770	2.05%	0.366%
24	5.674	1725	1726	1741	rVB5	40601	46287	1.46%	0.262%
25	5.784	1748	1760	1778	rVB8	23452	69312	2.19%	0.392%
26	6.205	1877	1890	1898	rBV6	25584	59854	1.89%	0.338%
27	6.273	1907	1911	1928	rVB5	28153	54747	1.73%	0.309%
28	6.829	2068	2083	2097	rVB5	39882	89733	2.84%	0.507%
29	6.936	2100	2116	2135	rBV3	371363	785495	24.85%	4.440%
30	7.192	2181	2195	2216	rVB3	53661	130079	4.11%	0.735%
31	7.376	2238	2252	2262	rBV7	21035	44863	1.42%	0.254%
32	7.448	2265	2274	2288	rVB7	33529	82288	2.60%	0.465%
33	7.622	2311	2328	2338	rBV6	80511	204221	6.46%	1.154%
34	7.674	2338	2344	2361	rVB8	48555	105794	3.35%	0.598%
35	7.823	2379	2390	2400	rVB8	23556	43450	1.37%	0.246%
36	7.898	2402	2413	2419	rBV4	34699	63340	2.00%	0.358%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042281.D
Acq On : 09 Apr 2025 01:49
Operator : SY/MD
Sample : Q1728-05 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025

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

37	8.140	2475	2488	2498	rBV6	83074	149556	4.73%	0.845%
38	8.315	2526	2542	2555	rVB7	72840	163491	5.17%	0.924%
39	8.768	2675	2682	2694	rVB4	26979	42951	1.36%	0.243%
40	8.881	2702	2717	2728	rBV2	954158	1494886	47.29%	8.450%
41	8.982	2741	2748	2749	rBV	86281	72528	2.29%	0.410%
42	9.004	2749	2755	2765	rVB4	133047	219876	6.96%	1.243%
43	9.098	2775	2784	2791	rBV2	92110	138717	4.39%	0.784%
44	9.147	2791	2799	2816	rVV4	144030	293662	9.29%	1.660%
45	9.221	2816	2822	2844	rVB5	43158	90767	2.87%	0.513%
46	9.354	2850	2863	2868	rBV4	43822	72270	2.29%	0.408%
47	9.419	2876	2883	2893	rVB4	63731	89249	2.82%	0.504%
48	9.532	2909	2918	2923	rBV2	75244	107975	3.42%	0.610%
49	9.561	2923	2927	2935	rVB6	66272	89370	2.83%	0.505%
50	9.658	2950	2957	2966	rVB6	33151	45247	1.43%	0.256%
51	9.720	2975	2976	2990	rVB6	33561	42130	1.33%	0.238%
52	9.794	2990	2999	3009	rBV2	32333	55868	1.77%	0.316%
53	9.865	3014	3021	3028	rVB5	37390	53030	1.68%	0.300%
54	9.962	3038	3051	3056	rBV2	42526	67457	2.13%	0.381%
55	10.098	3088	3093	3101	rVB6	31716	44835	1.42%	0.253%
56	10.147	3101	3108	3120	rVB8	29782	52420	1.66%	0.296%
57	10.377	3157	3179	3190	rBV	1190759	1503157	47.55%	8.496%
58	10.432	3190	3196	3204	rVB3	47086	68799	2.18%	0.389%
59	10.859	3321	3328	3334	rBV2	74198	82115	2.60%	0.464%
60	10.901	3334	3341	3353	rVB	736221	836290	26.45%	4.727%
61	11.011	3366	3375	3384	rVB5	63554	96698	3.06%	0.547%
62	11.205	3423	3435	3442	rBV6	57721	81042	2.56%	0.458%
63	11.775	3599	3611	3618	rVB4	59454	99508	3.15%	0.562%
64	12.228	3744	3751	3756	rBV3	50710	63738	2.02%	0.360%
65	12.254	3756	3759	3769	rVB2	39189	42919	1.36%	0.243%

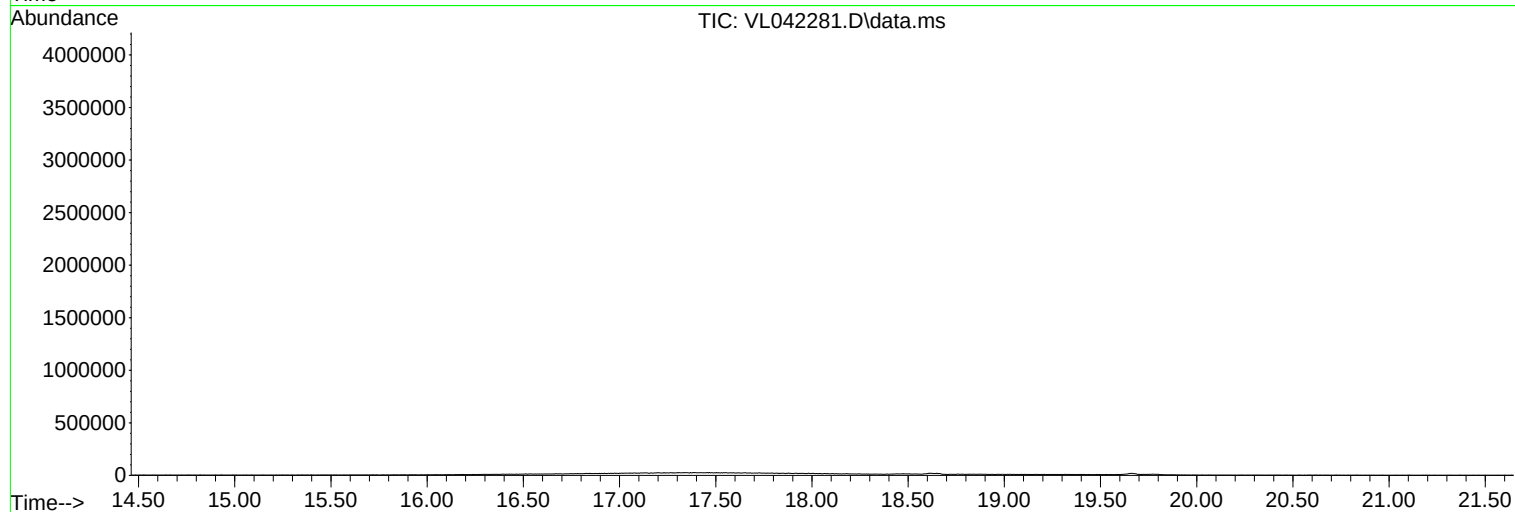
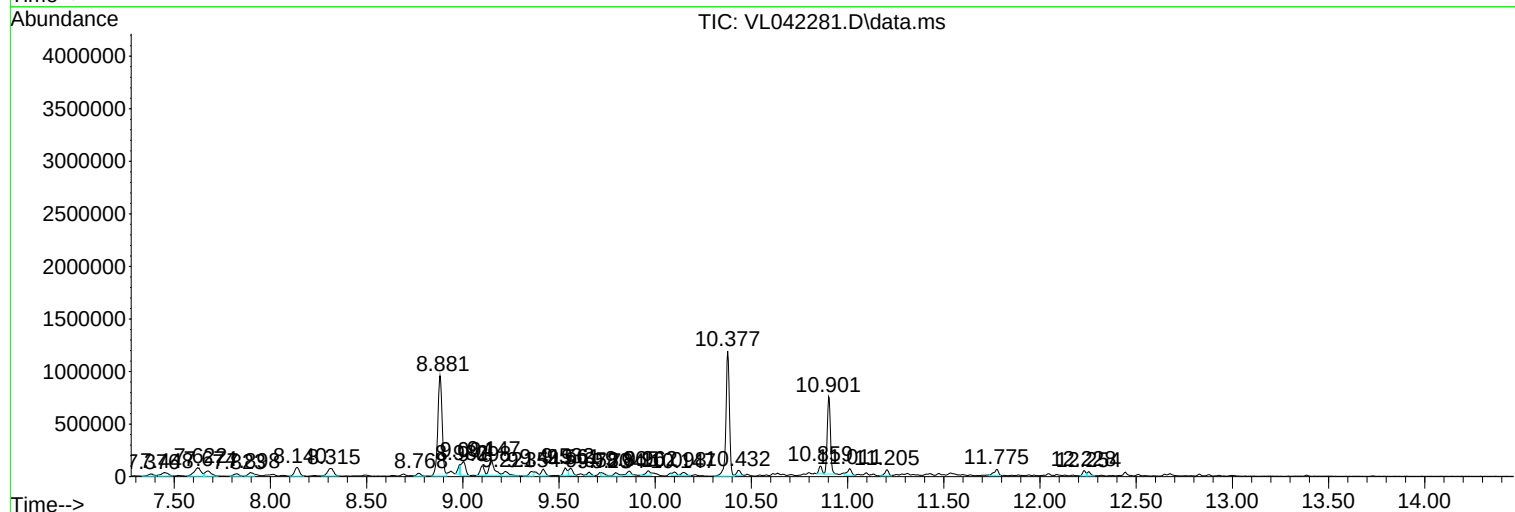
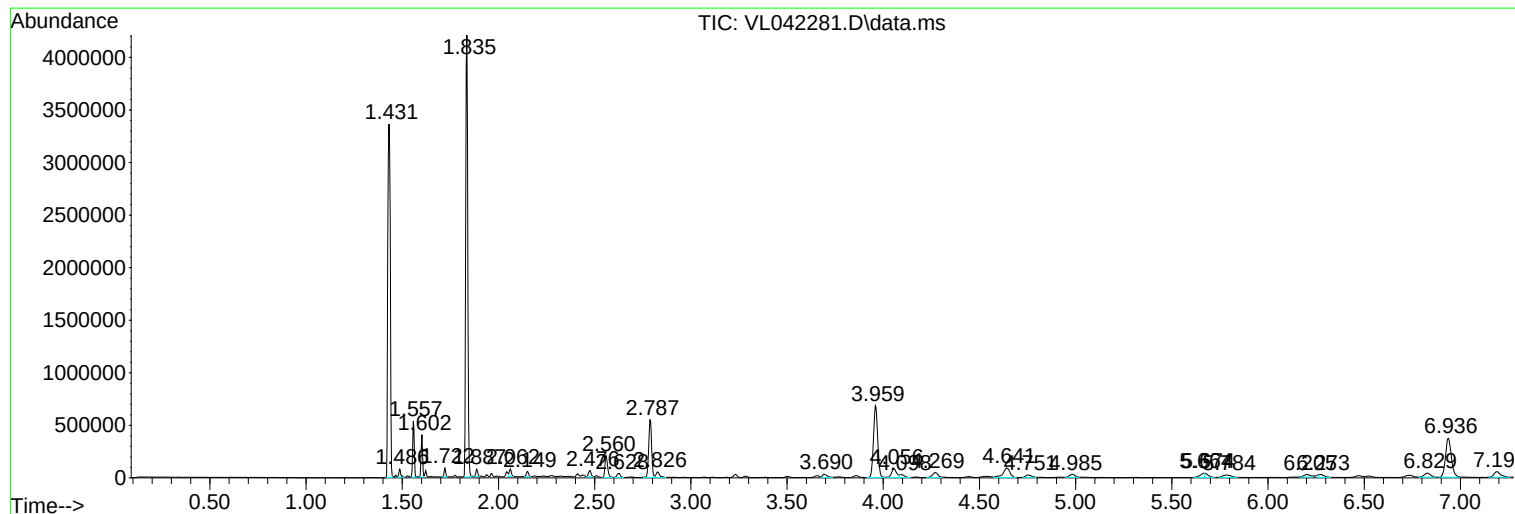
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Data File : VL042281.D
Acq On : 09 Apr 2025 01:49
Operator : SY/MD
Sample : Q1728-05 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025

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 : VL042281.D
Acq On : 09 Apr 2025 01:49
Operator : SY/MD
Sample : Q1728-05 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025

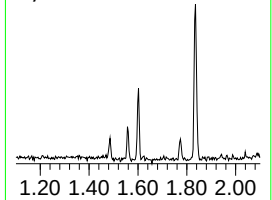
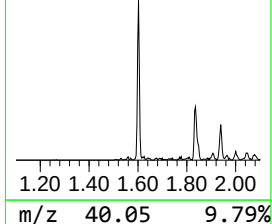
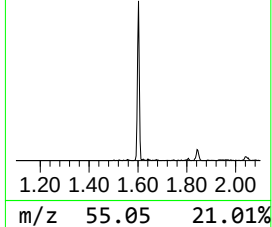
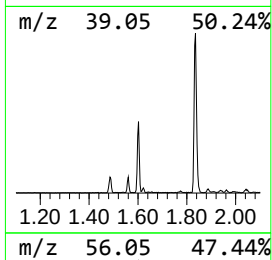
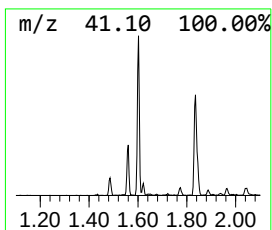
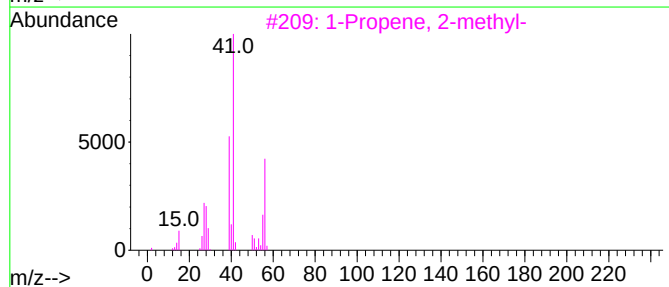
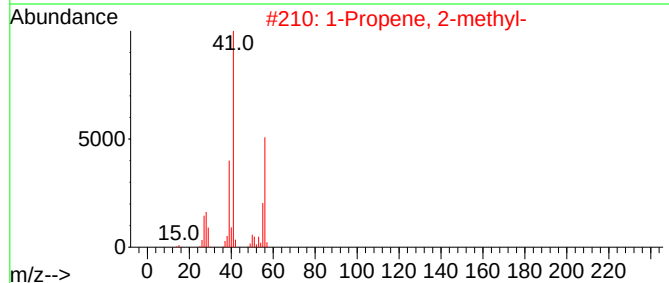
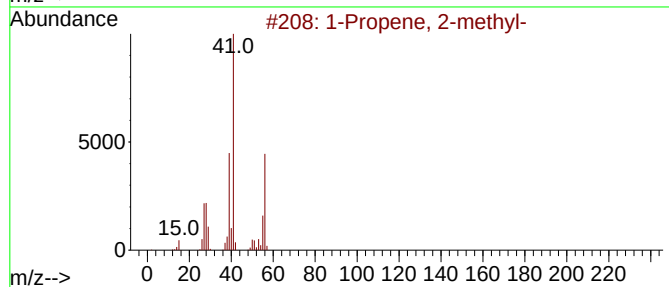
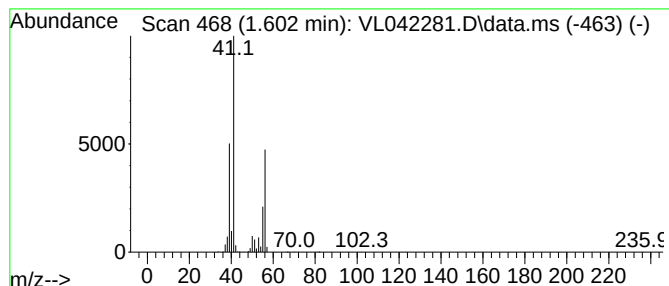
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 2 1-Propene, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.602	3.80 ppbv	218424	Bromochloromethane	2.787

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	90
3		1-Propene, 2-methyl-	56	C4H8	000115-11-7	80
4		2-Butene, (Z)-	56	C4H8	000590-18-1	80
5		2-Butene, (Z)-	56	C4H8	000590-18-1	80



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042281.D
Acq On : 09 Apr 2025 01:49
Operator : SY/MD
Sample : Q1728-05 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025

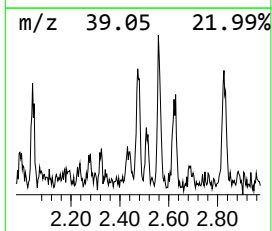
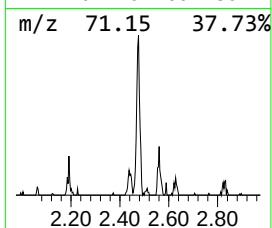
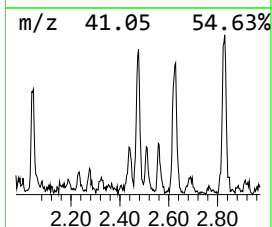
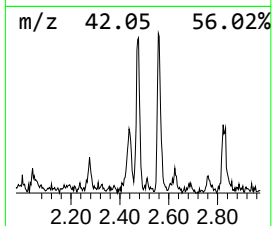
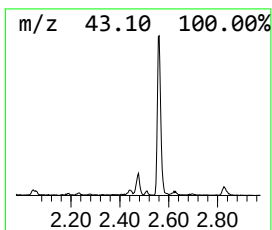
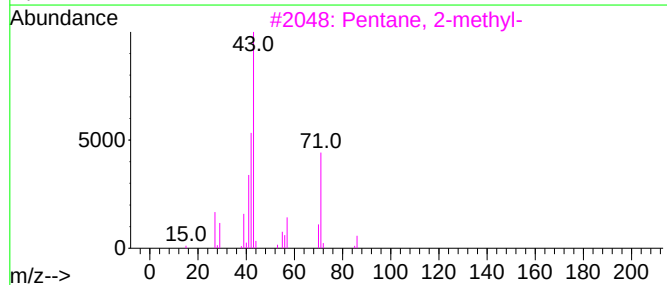
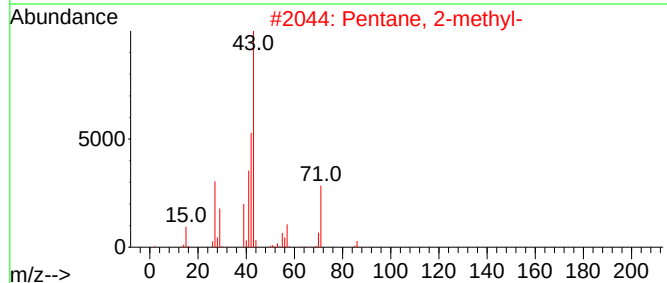
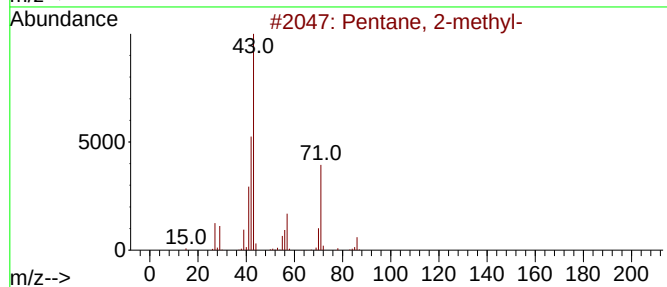
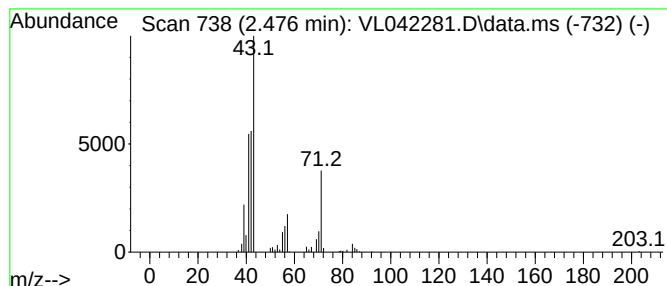
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 3 Pentane, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.476	1.03 ppbv	59443	Bromochloromethane	2.787

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-			86	C6H14	000107-83-5	86
2	Pentane, 2-methyl-			86	C6H14	000107-83-5	64
3	Pentane, 2-methyl-			86	C6H14	000107-83-5	64
4	Pentane, 2-methyl-			86	C6H14	000107-83-5	64
5	Pentane, 2-methyl-			86	C6H14	000107-83-5	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042281.D
Acq On : 09 Apr 2025 01:49
Operator : SY/MD
Sample : Q1728-05 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025

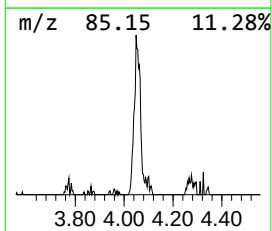
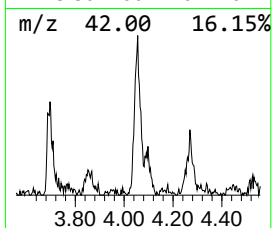
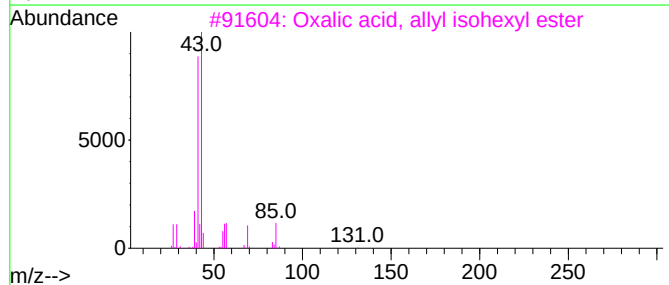
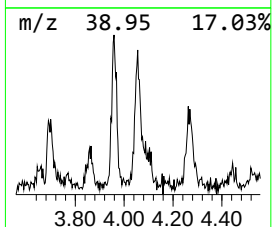
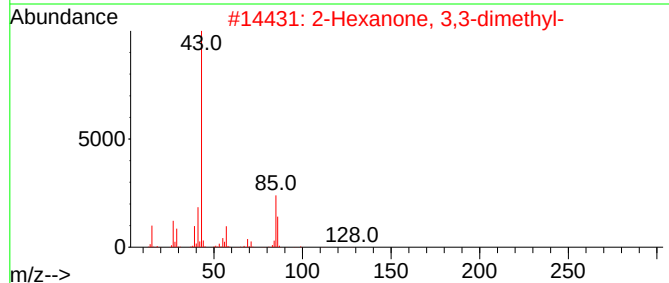
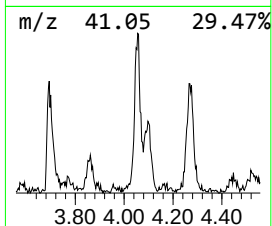
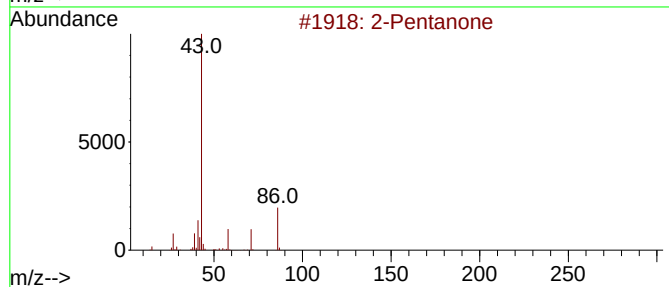
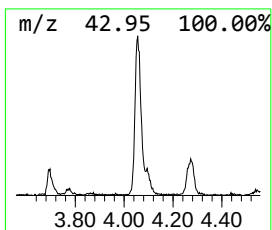
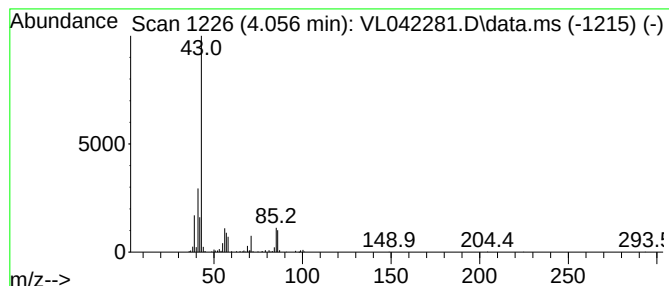
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 4 unknown4.056 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.056	1.52 ppbv	158612	1,4-Difluorobenzene	3.958

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			2-Pentanone	86	C5H10O	000107-87-9	46
2			2-Hexanone, 3,3-dimethyl-	128	C8H16O	026118-38-7	40
3			Oxalic acid, allyl isohexyl ester	214	C11H18O4	1000309-23-3	36
4			Oxalic acid, allyl hexyl ester	214	C11H18O4	1000309-23-4	33
5			Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	27



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042281.D
Acq On : 09 Apr 2025 01:49
Operator : SY/MD
Sample : Q1728-05 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025

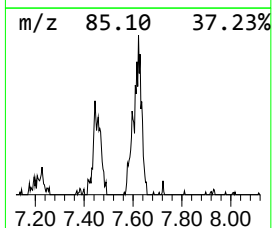
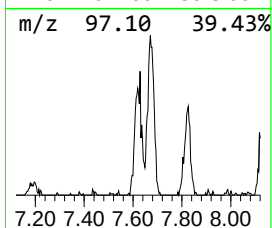
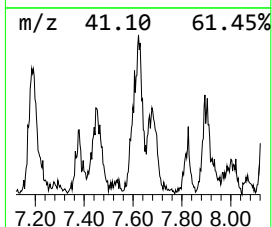
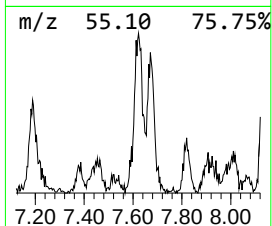
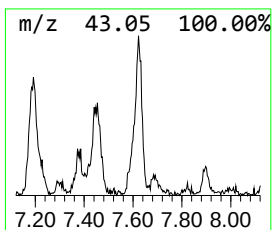
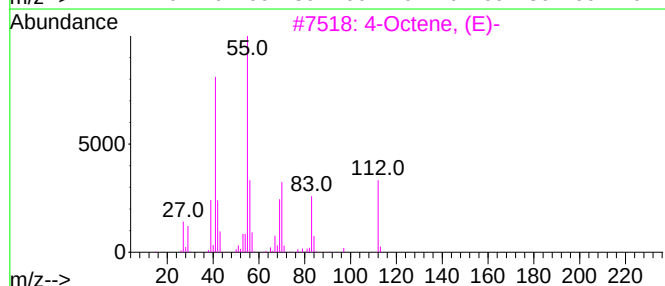
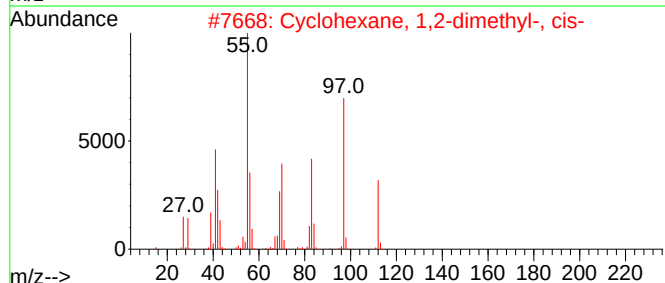
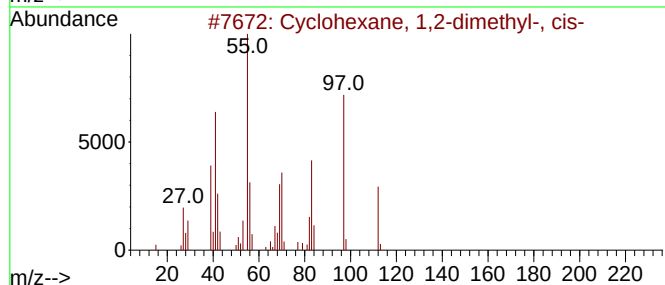
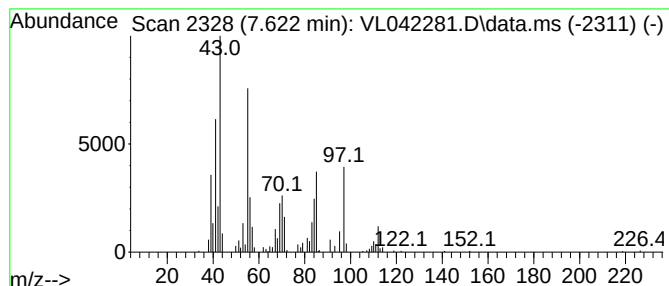
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 5 Cyclohexane, 1,2-dimethyl-,... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.622	1.37 ppbv	204221	Chlorobenzene-d5	8.881

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	70
2			Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	62
3			4-Octene, (E)-	112	C8H16	014850-23-8	45
4			4-Octene, (E)-	112	C8H16	014850-23-8	43
5			4-Octene, (E)-	112	C8H16	014850-23-8	43



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042281.D
Acq On : 09 Apr 2025 01:49
Operator : SY/MD
Sample : Q1728-05 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025

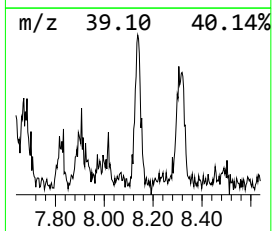
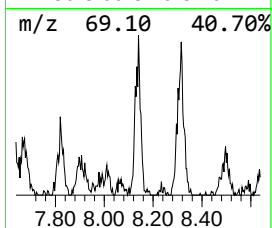
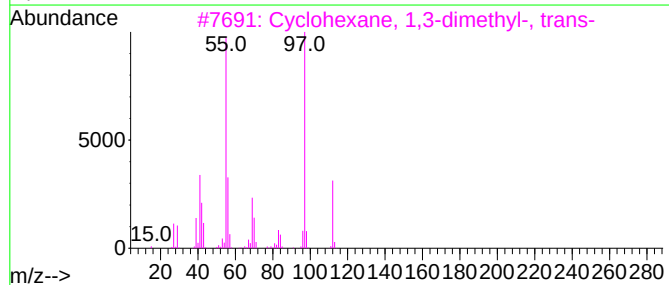
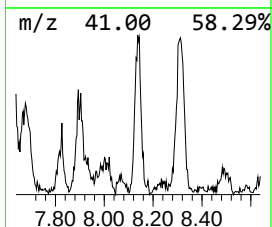
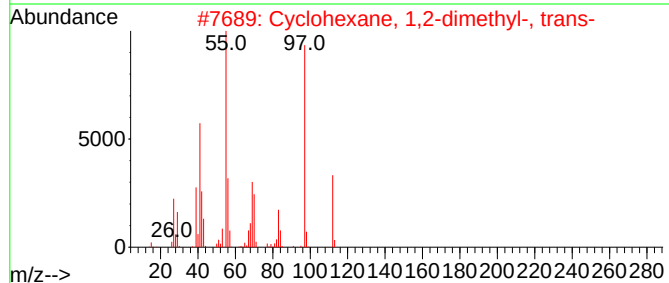
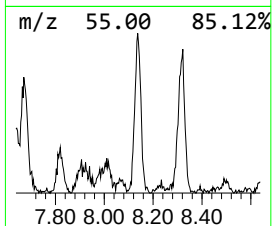
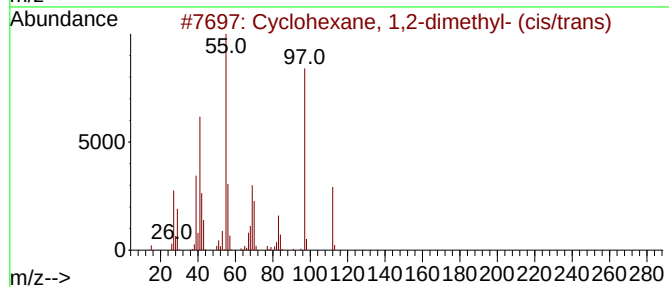
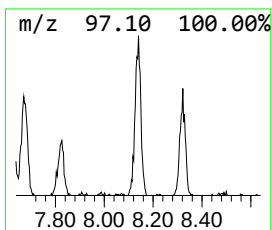
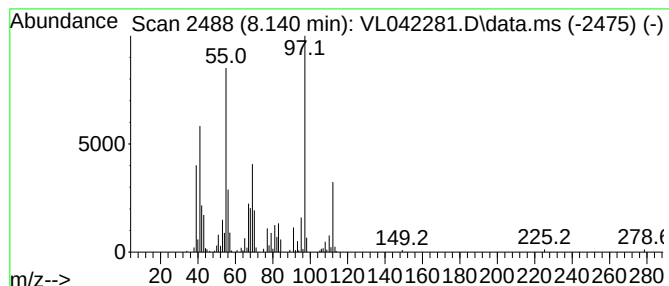
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 6 Cyclohexane, 1,2-dimethyl-,... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.140	1.00 ppbv	149556	Chlorobenzene-d5	8.881

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	70
2		Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	70
3		Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	60
4		Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	60
5		Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	60



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042281.D
Acq On : 09 Apr 2025 01:49
Operator : SY/MD
Sample : Q1728-05 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025

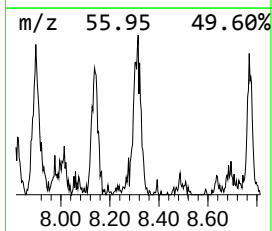
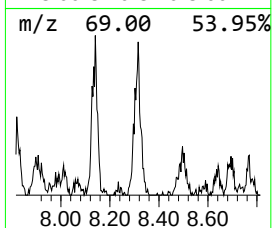
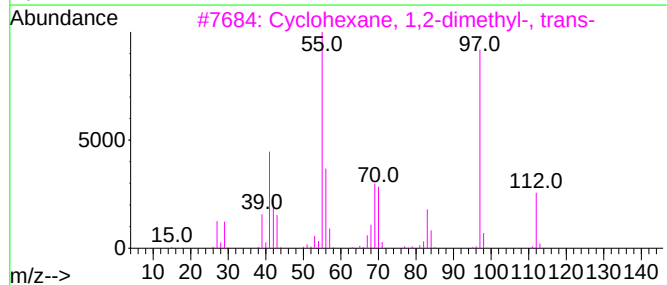
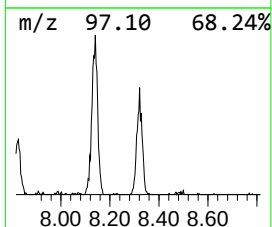
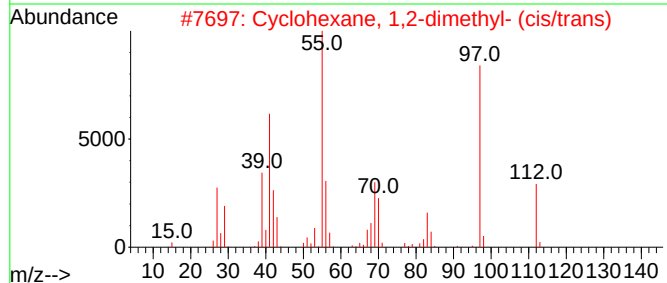
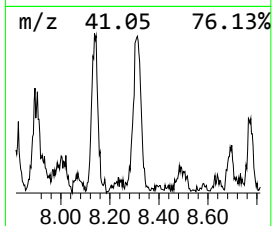
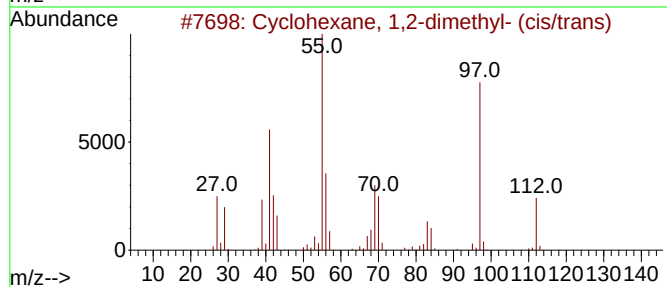
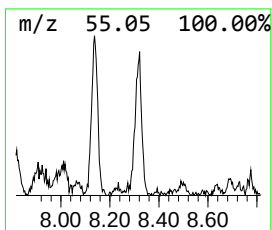
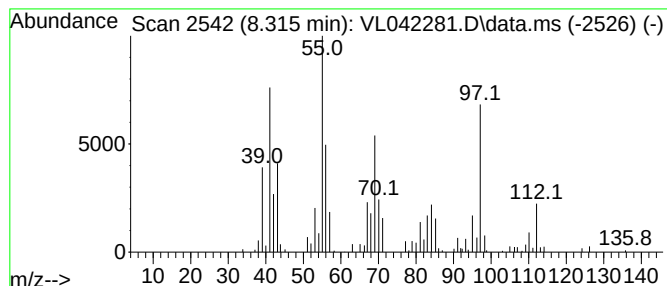
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 7 Cyclohexane, 1,2-dimethyl- ... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.315	1.09 ppbv	163491	Chlorobenzene-d5	8.881

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	55
2			Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	55
3			Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	49
4			1-Octene, 6-methyl-	126	C9H18	013151-10-5	49
5			Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	46



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042281.D
Acq On : 09 Apr 2025 01:49
Operator : SY/MD
Sample : Q1728-05 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025

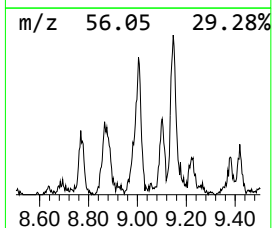
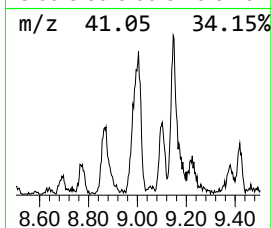
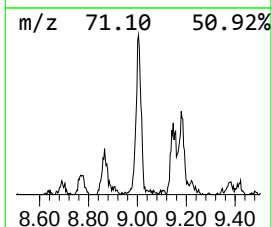
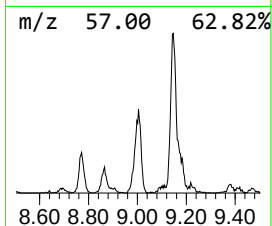
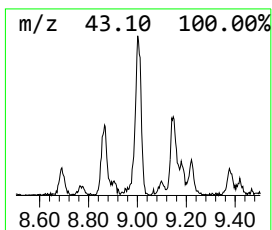
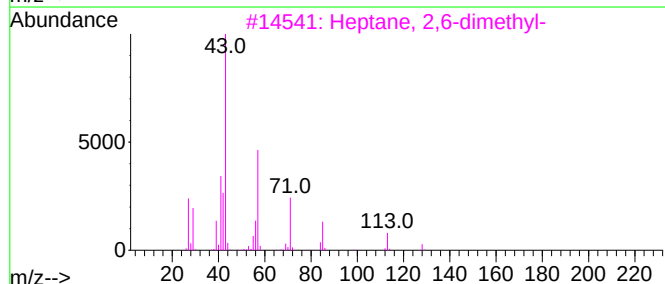
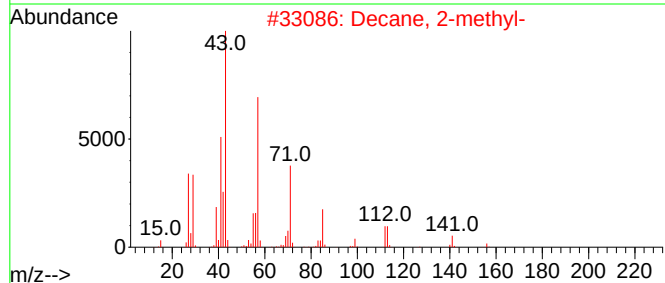
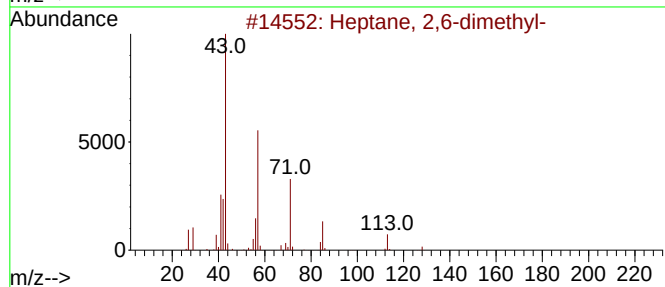
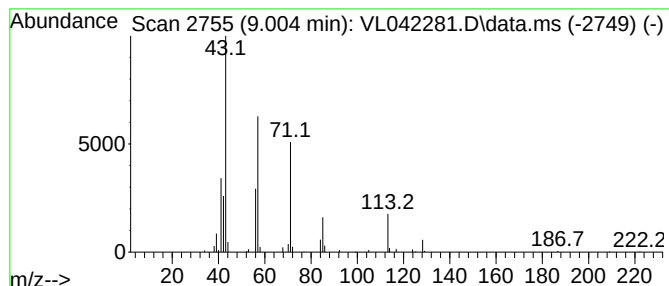
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 8 Heptane, 2,6-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.004	1.47 ppbv	219876	Chlorobenzene-d5	8.881

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Heptane, 2,6-dimethyl-	128	C9H20	001072-05-5	64
2			Decane, 2-methyl-	156	C11H24	006975-98-0	64
3			Heptane, 2,6-dimethyl-	128	C9H20	001072-05-5	52
4			Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	47
5			Octane, 2-iodo-	240	C8H17I	000557-36-8	47



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042281.D
Acq On : 09 Apr 2025 01:49
Operator : SY/MD
Sample : Q1728-05 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025

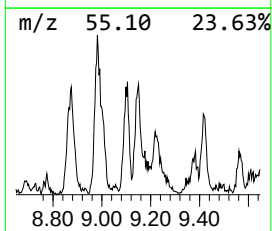
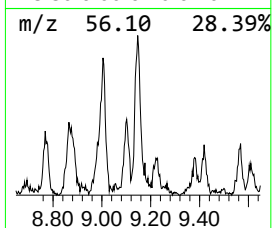
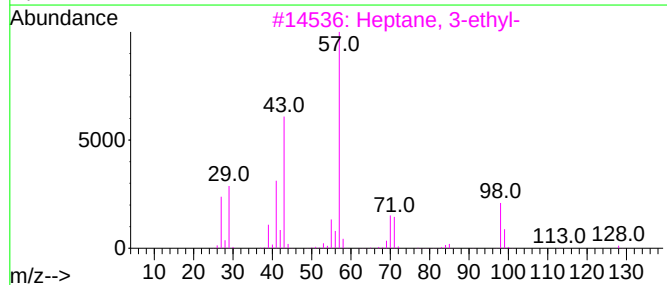
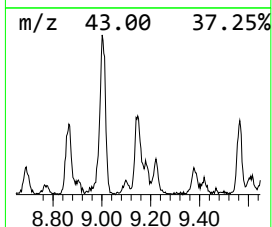
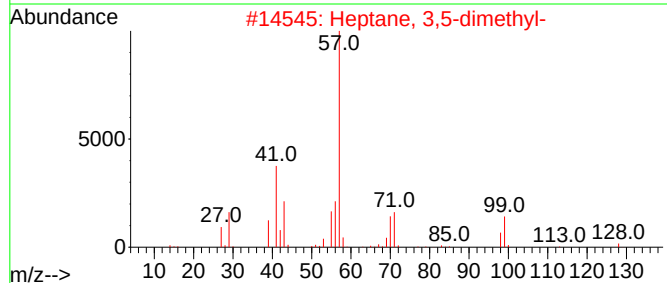
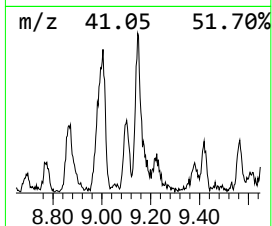
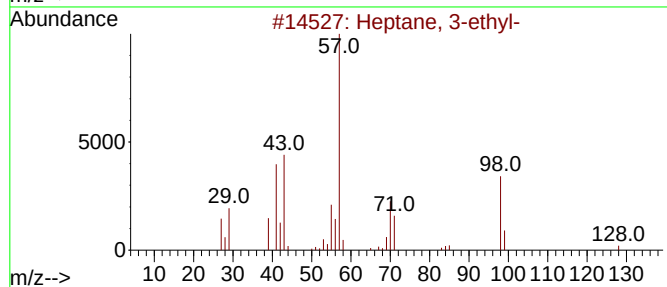
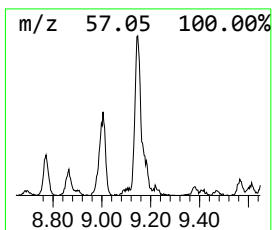
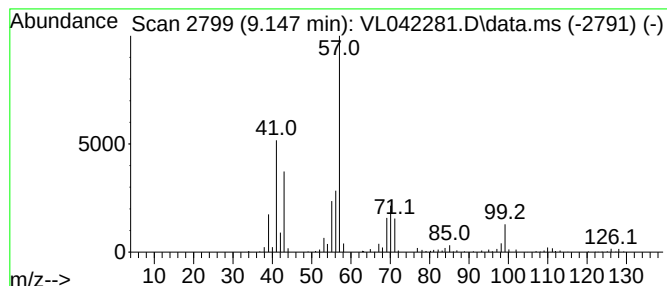
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 9 Heptane, 3-ethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.147	1.96 ppbv	293662	Chlorobenzene-d5	8.881

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Heptane, 3-ethyl-	128	C9H20	015869-80-4	74
2			Heptane, 3,5-dimethyl-	128	C9H20	000926-82-9	59
3			Heptane, 3-ethyl-	128	C9H20	015869-80-4	59
4			Octane, 3-methyl-	128	C9H20	002216-33-3	58
5			Hexane, 4-ethyl-2-methyl-	128	C9H20	003074-75-7	53



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042281.D
Acq On : 09 Apr 2025 01:49
Operator : SY/MD
Sample : Q1728-05 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025

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\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
1-Propene, 2-me...	1.602	3.8	ppbv	218424	1	2.787	575252	10.0
Pentane, 2-methyl-	2.476	1.0	ppbv	59443	1	2.787	575252	10.0
unknown4.056	4.056	1.5	ppbv	158612	2	3.958	1046400	10.0
Cyclohexane, 1,...	7.622	1.4	ppbv	204221	3	8.881	1494890	10.0
Cyclohexane, 1,...	8.140	1.0	ppbv	149556	3	8.881	1494890	10.0
Cyclohexane, 1,...	8.315	1.1	ppbv	163491	3	8.881	1494890	10.0
Heptane, 2,6-di...	9.004	1.5	ppbv	219876	3	8.881	1494890	10.0
Heptane, 3-ethyl-	9.147	2.0	ppbv	293662	3	8.881	1494890	10.0

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/02/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B2-6-04022025DL	SDG No.:	Q1728
Lab Sample ID:	Q1728-05DL	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
VL042282.D	40		04/09/25 02:20	VL040825

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	450	1070	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	10.5	36.5	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	15.2	44.8	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	12.5	47.1	JD	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:	04/02/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B2-6-04022025DL	SDG No.:	Q1728
Lab Sample ID:	Q1728-05DL	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
VL042282.D	40		04/09/25 02:20	VL040825

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	8.10	41.9	JD	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	9.20			70 (65) - 130 (135)	92%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	152000		2.787			
540-36-3	1,4-Difluorobenzene	380000		3.959			
3114-55-4	Chlorobenzene-d5	331000		8.878			

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/02/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B2-6-04022025DL	SDG No.:	Q1728
Lab Sample ID:	Q1728-05DL	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
VL042282.D	40		04/09/25 02:20	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 : VL042282.D
 Acq On : 09 Apr 2025 02:20
 Operator : SY/MD
 Sample : Q1728-05DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-6-04022025DL

Quant Time: Apr 09 05:22:13 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)

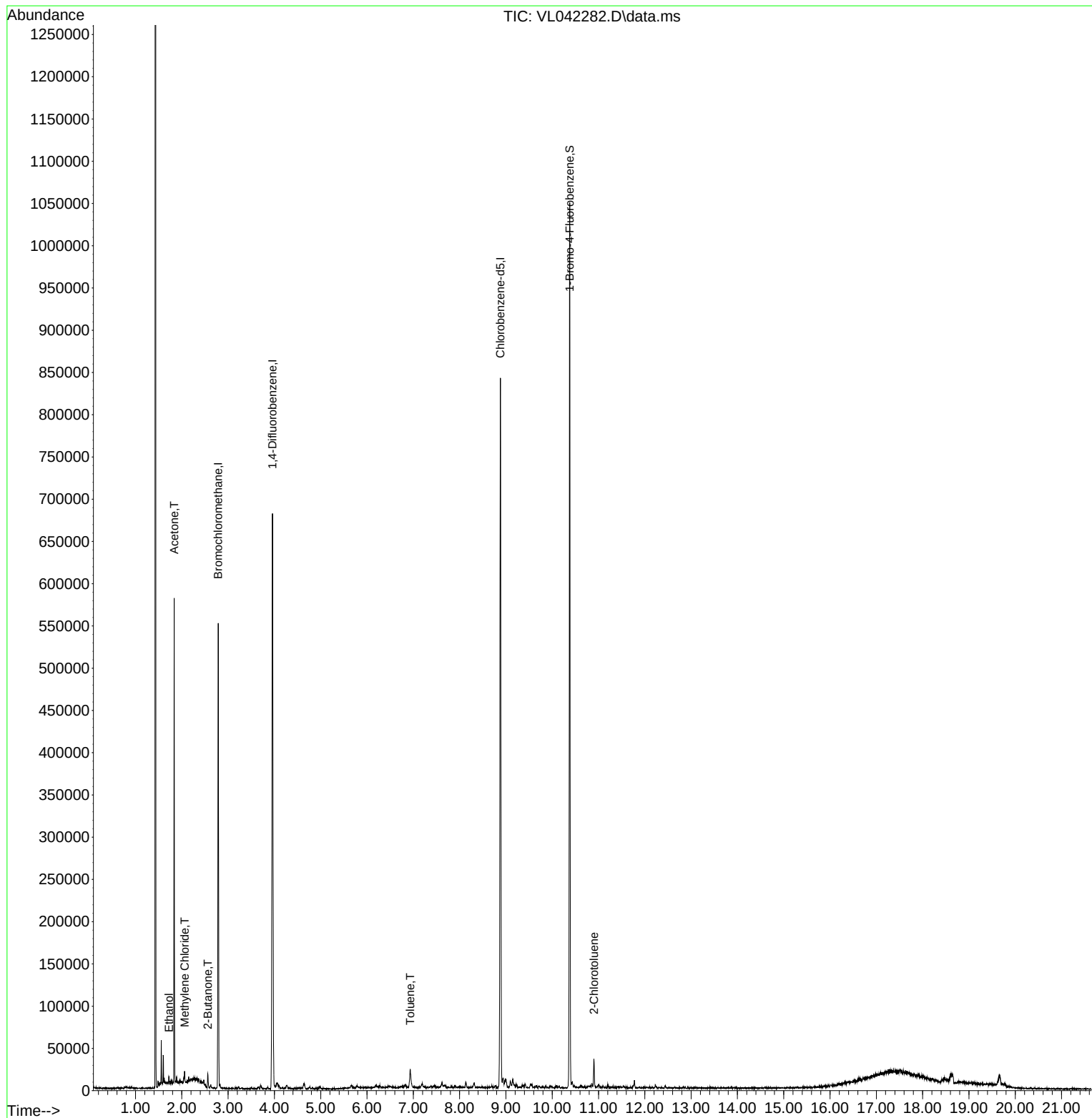
Internal Standards						
1) Bromochloromethane	2.787	49	151544	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	379950	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	331294	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	250221	9.197	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.000%
Target Compounds						
					Qvalue	
13) Ethanol	1.722	45	2925	2.953	ppbv #	27
15) Acetone	1.835	43	240014	11.324	ppbv	95
20) Methylene Chloride	2.062	84	2077	0.263	ppbv #	78
34) 2-Butanone	2.560	43	10478	0.380	ppbv	96
53) Toluene	6.933	91	13969	0.313	ppbv	96
71) 2-Chlorotoluene	10.901	91	11092	0.203	ppbv	94

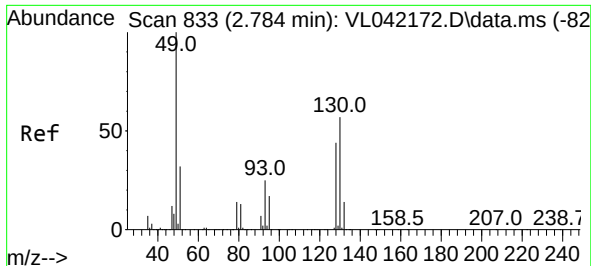
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042282.D
Acq On : 09 Apr 2025 02:20
Operator : SY/MD
Sample : Q1728-05DL 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025DL

Quant Time: Apr 09 05:22:13 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

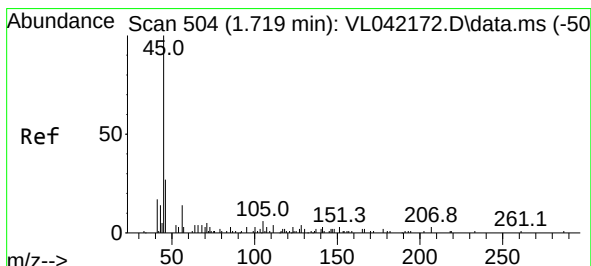
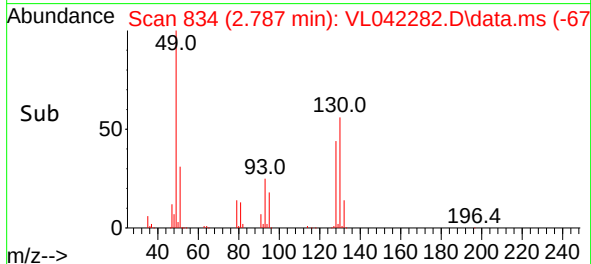
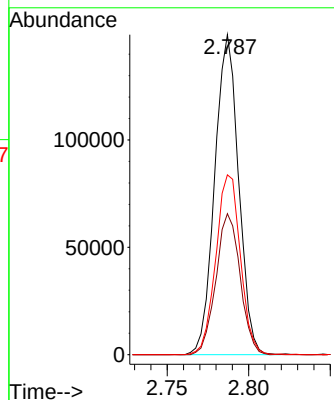
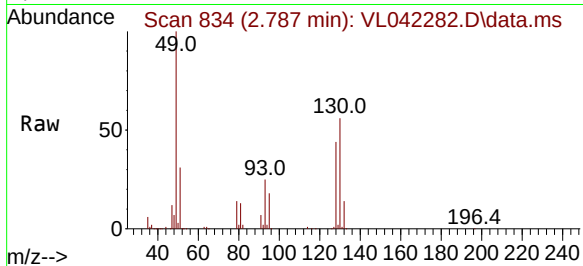




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042282.D
Acq: 09 Apr 2025 02:20

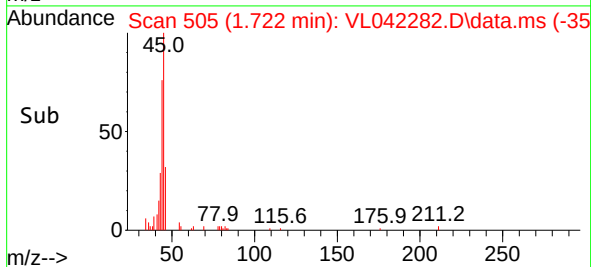
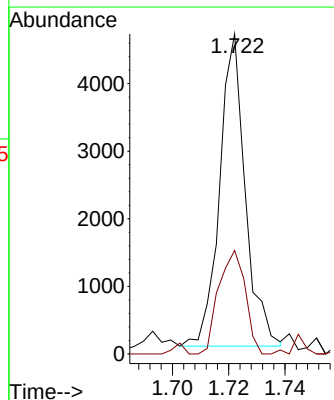
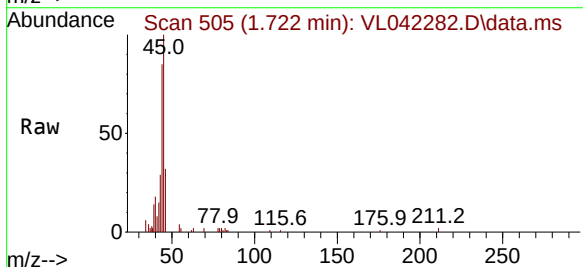
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025DL

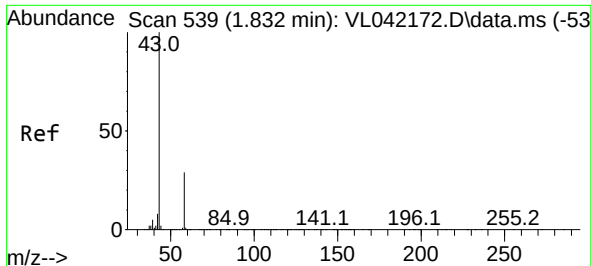
Tgt Ion: 49 Resp: 151544
Ion Ratio Lower Upper
49 100
128 44.7 22.9 68.5
130 57.9 28.8 86.4



#13
Ethanol
Concen: 2.953 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042282.D
Acq: 09 Apr 2025 02:20

Tgt Ion: 45 Resp: 2925
Ion Ratio Lower Upper
45 100
46 0.0 20.2 80.8#





#15

Acetone

Concen: 11.324 ppbv

RT: 1.835 min Scan# 54

Delta R.T. 0.003 min

Lab File: VL042282.D

Acq: 09 Apr 2025 02:20

Instrument :

MSVOA_L

ClientSampleId :

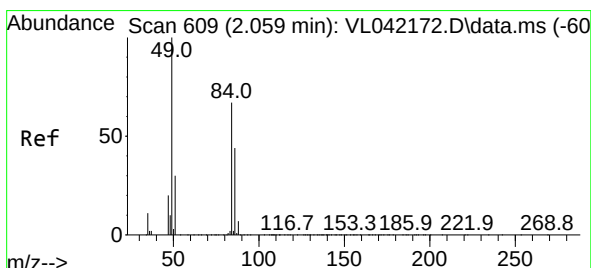
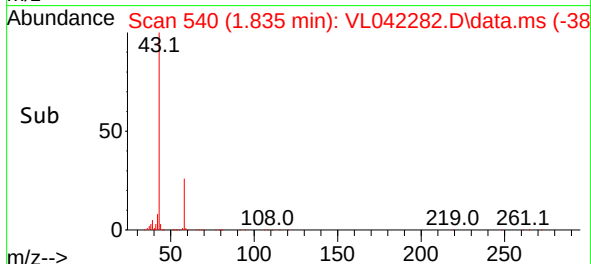
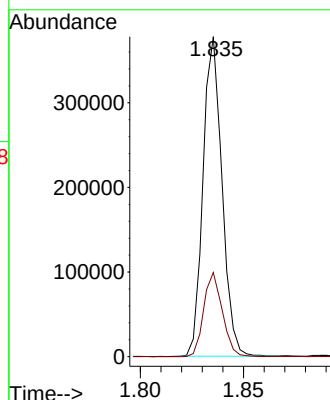
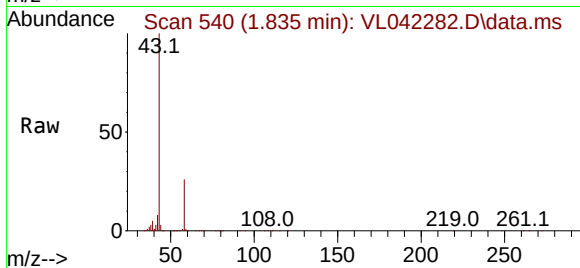
SSSG-B2-6-04022025DL

Tgt Ion: 43 Resp: 240014

Ion Ratio Lower Upper

43 100

58 26.1 23.2 34.8



#20

Methylene Chloride

Concen: 0.263 ppbv

RT: 2.062 min Scan# 610

Delta R.T. 0.003 min

Lab File: VL042282.D

Acq: 09 Apr 2025 02:20

Tgt Ion: 84 Resp: 2077

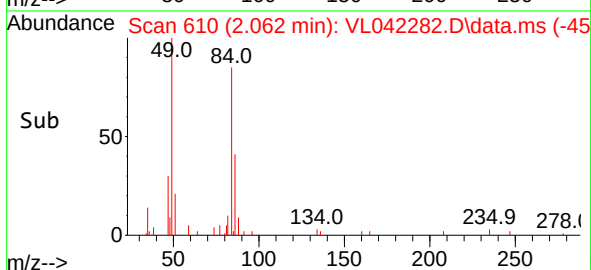
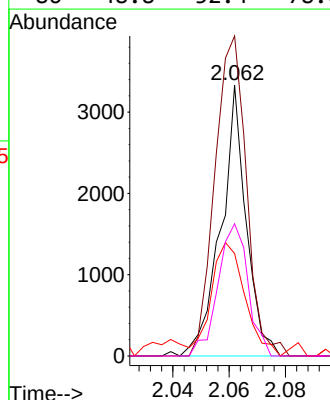
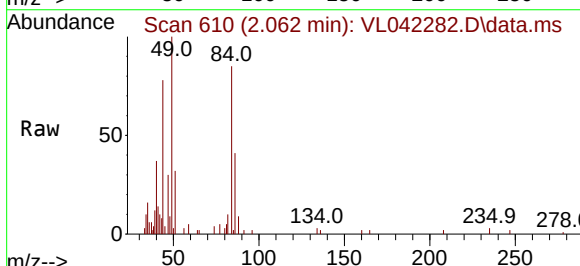
Ion Ratio Lower Upper

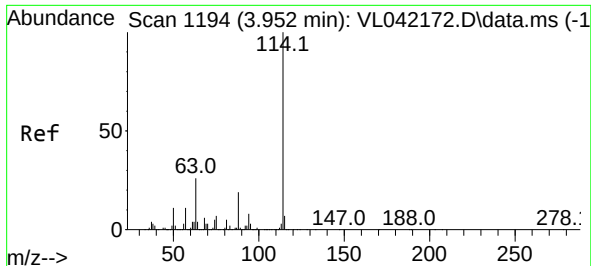
84 100

49 118.2 120.2 180.4#

51 37.8 37.4 56.0

86 48.8 52.4 78.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.006 min

Lab File: VL042282.D

Acq: 09 Apr 2025 02:20

Instrument :

MSVOA_1

ClientSampleId :

SSSG-B2-6-04022025DL

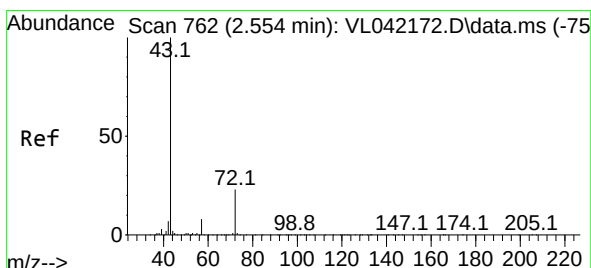
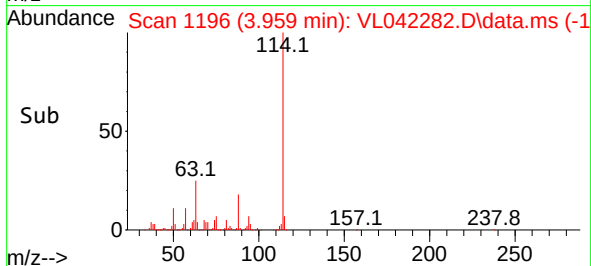
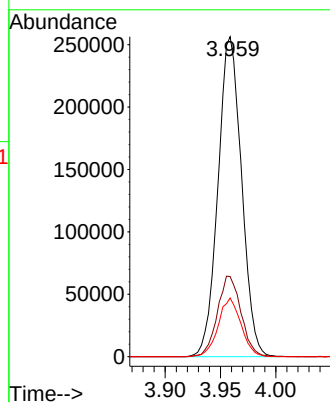
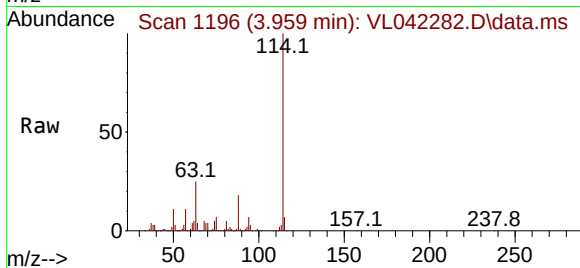
Tgt Ion:114 Resp: 379950

Ion Ratio Lower Upper

114 100

63 25.3 20.7 31.1

88 17.7 15.0 22.4



#34

2-Butanone

Concen: 0.380 ppbv

RT: 2.560 min Scan# 764

Delta R.T. 0.006 min

Lab File: VL042282.D

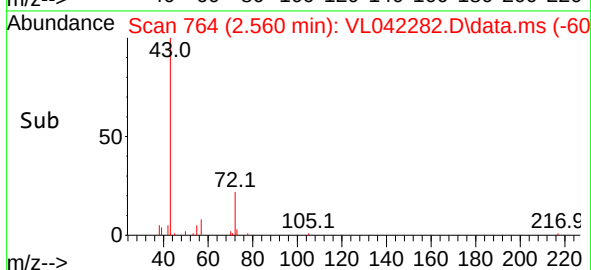
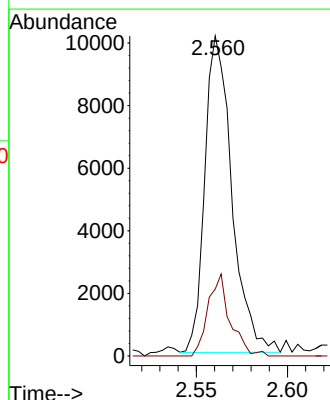
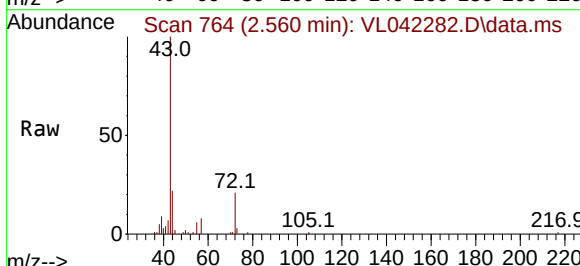
Acq: 09 Apr 2025 02:20

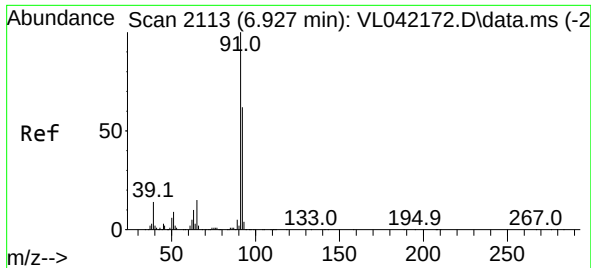
Tgt Ion: 43 Resp: 10478

Ion Ratio Lower Upper

43 100

72 20.9 18.2 27.2

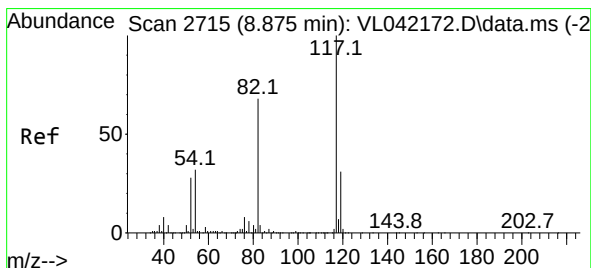
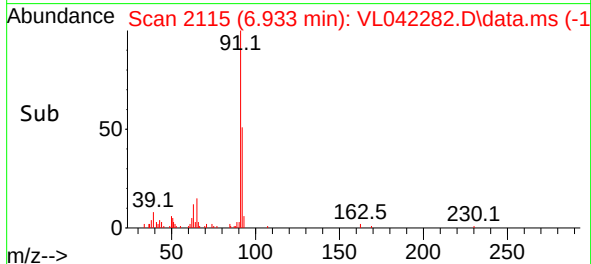
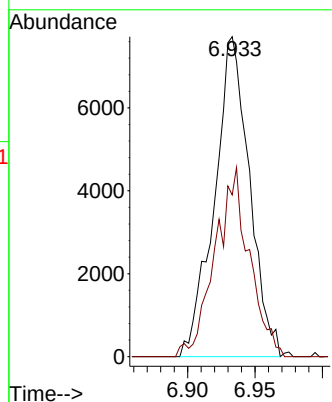
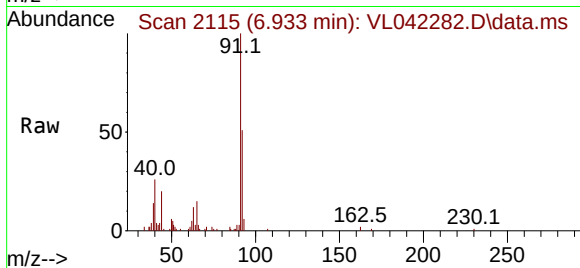




#53
Toluene
Concen: 0.313 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.006 min
Lab File: VL042282.D
Acq: 09 Apr 2025 02:20

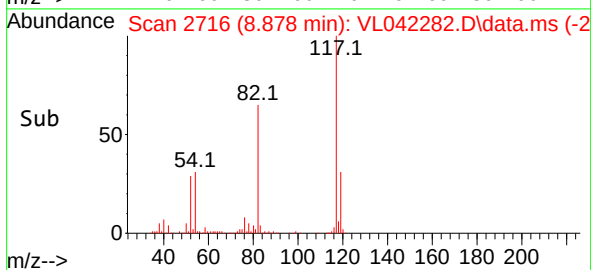
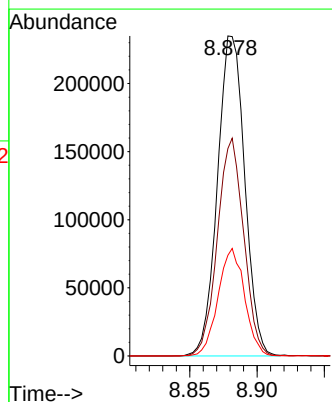
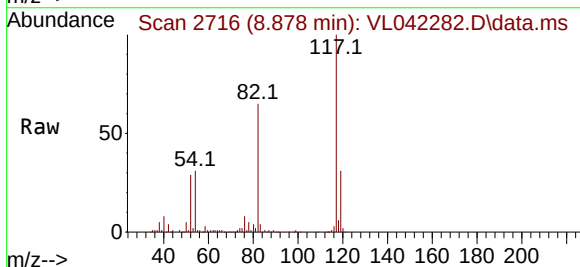
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025DL

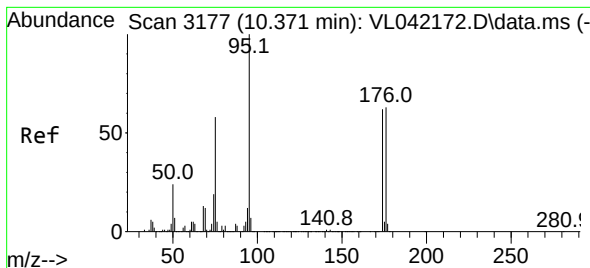
Tgt Ion: 91 Resp: 13969
Ion Ratio Lower Upper
91 100
92 57.7 48.4 72.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. 0.003 min
Lab File: VL042282.D
Acq: 09 Apr 2025 02:20

Tgt Ion: 117 Resp: 331294
Ion Ratio Lower Upper
117 100
82 65.6 55.8 83.6
119 32.6 25.5 38.3





#68

1-Bromo-4-Fluorobenzene

Concen: 9.197 ppbv

RT: 10.377 min Scan# 3177

Delta R.T. 0.006 min

Lab File: VL042282.D

Acq: 09 Apr 2025 02:20

Instrument :

MSVOA_1

ClientSampleId :

SSSG-B2-6-04022025DL

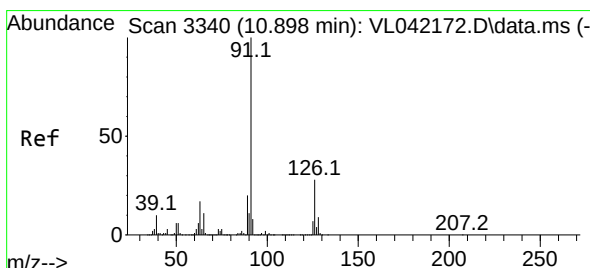
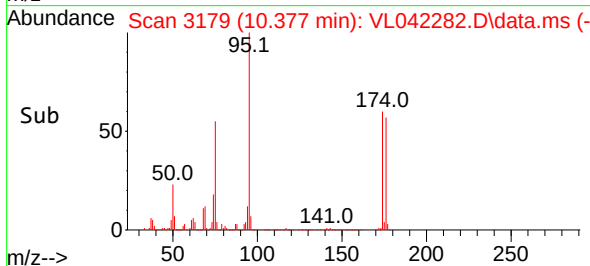
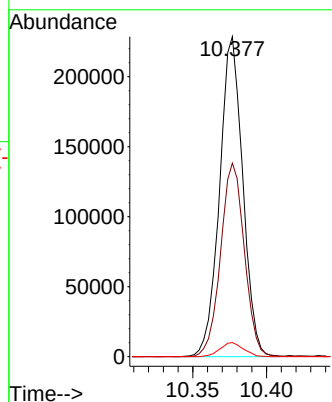
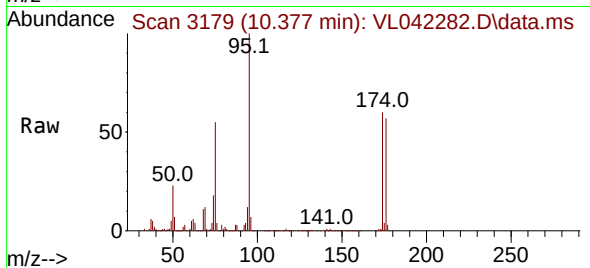
Tgt Ion: 95 Resp: 250221

Ion Ratio Lower Upper

95 100

174 62.0 50.6 76.0

175 4.5 3.8 5.6



#71

2-Chlorotoluene

Concen: 0.203 ppbv

RT: 10.901 min Scan# 3341

Delta R.T. 0.003 min

Lab File: VL042282.D

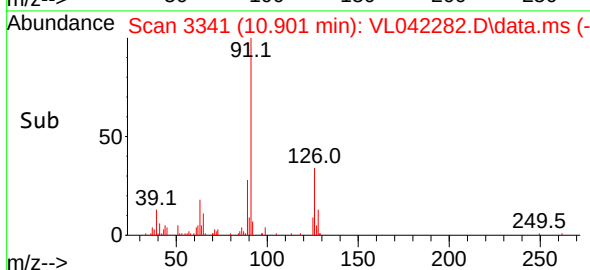
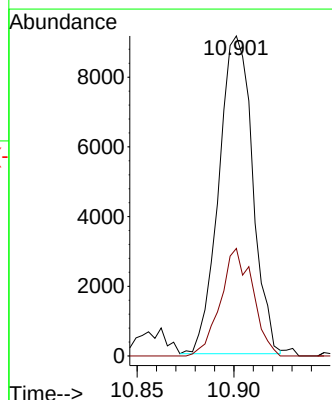
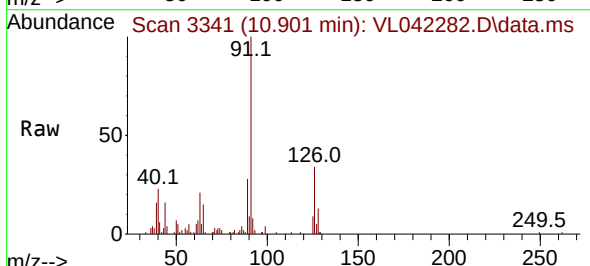
Acq: 09 Apr 2025 02:20

Tgt Ion: 91 Resp: 11092

Ion Ratio Lower Upper

91 100

126 32.4 11.6 46.4



Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/02/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B2-5-04022025	SDG No.:	Q1728
Lab Sample ID:	Q1728-06	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
VL042260.D	10		04/08/25 13:07	VL040825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.10	10.4	U	10.4	24.7	ug/m3
74-87-3	Chloromethane	1.00	2.07	J	2.02	10.3	ug/m3
75-01-4	Vinyl Chloride	0.14	0.36	U	0.36	0.77	ug/m3
74-83-9	Bromomethane	1.40	5.44	U	5.44	19.4	ug/m3
75-00-3	Chloroethane	1.70	4.49	U	4.49	13.2	ug/m3
109-99-9	Tetrahydrofuran	1.30	3.83	U	3.83	14.8	ug/m3
75-69-4	Trichlorofluoromethane	1.60	8.99	U	8.99	28.1	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	1.60	12.3	U	12.3	38.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.88	6.15	U	6.15	35.0	ug/m3
75-65-0	tert-Butyl alcohol	2.40	7.28	J	5.76	15.2	ug/m3
142-82-5	Heptane	6.80	27.9		4.51	20.5	ug/m3
75-35-4	1,1-Dichloroethene	1.40	5.55	U	5.55	19.8	ug/m3
67-64-1	Acetone	410	974	E	5.70	11.9	ug/m3
75-15-0	Carbon Disulfide	24.1	75.0		4.98	15.6	ug/m3
1634-04-4	Methyl tert-Butyl Ether	1.20	4.33	U	4.33	18.0	ug/m3
75-09-2	Methylene Chloride	9.10	31.6		6.60	17.4	ug/m3
156-60-5	trans-1,2-Dichloroethene	1.90	7.53	U	7.53	19.8	ug/m3
75-34-3	1,1-Dichloroethane	1.30	5.26	U	5.26	20.2	ug/m3
110-82-7	Cyclohexane	8.40	28.9		7.57	17.2	ug/m3
78-93-3	2-Butanone	26.8	79.0		3.54	14.8	ug/m3
56-23-5	Carbon Tetrachloride	0.11	0.69	U	0.69	1.89	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.89	3.53	U	3.53	19.8	ug/m3
67-66-3	Chloroform	0.83	4.05	U	4.05	24.4	ug/m3
71-55-6	1,1,1-Trichloroethane	0.10	0.55	U	0.55	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	13.1	61.2		4.67	23.4	ug/m3
71-43-2	Benzene	13.3	42.5		2.78	16.0	ug/m3
107-06-2	1,2-Dichloroethane	0.91	3.68	U	3.68	20.2	ug/m3
79-01-6	Trichloroethene	0.17	0.91	U	0.91	1.61	ug/m3
78-87-5	1,2-Dichloropropane	1.10	5.08	U	5.08	23.1	ug/m3
75-27-4	Bromodichloromethane	0.77	5.16	U	5.16	33.5	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.93	3.81	U	3.81	20.5	ug/m3
108-88-3	Toluene	57.0	215		4.15	18.8	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.60	2.72	U	2.72	22.7	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.64	2.91	U	2.91	22.7	ug/m3
79-00-5	1,1,2-Trichloroethane	0.71	3.87	U	3.87	27.3	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/02/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B2-5-04022025	SDG No.:	Q1728
Lab Sample ID:	Q1728-06	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
VL042260.D	10		04/08/25 13:07	VL040825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.66	5.62	U	5.62	42.6	ug/m3
106-93-4	1,2-Dibromoethane	0.72	5.53	U	5.53	7.69	ug/m3
127-18-4	Tetrachloroethene	0.15	1.02	U	1.02	2.03	ug/m3
108-90-7	Chlorobenzene	1.10	5.07	J	3.50	23.0	ug/m3
100-41-4	Ethyl Benzene	7.10	30.8		5.21	21.7	ug/m3
179601-23-1	m/p-Xylene	21.2	92.1		9.12	43.4	ug/m3
95-47-6	o-Xylene	8.80	38.2		5.21	21.7	ug/m3
100-42-5	Styrene	1.10	4.68	U	4.68	21.3	ug/m3
75-25-2	Bromoform	0.57	5.89	U	5.89	51.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.11	0.76	U	0.76	2.06	ug/m3
95-49-8	2-Chlorotoluene	5.70	29.5		5.70	25.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1.10	5.41	U	5.41	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	2.00	9.83	J	3.83	24.6	ug/m3
541-73-1	1,3-Dichlorobenzene	0.80	4.81	U	4.81	30.1	ug/m3
106-46-7	1,4-Dichlorobenzene	0.53	3.19	U	3.19	30.1	ug/m3
95-50-1	1,2-Dichlorobenzene	0.75	4.51	U	4.51	30.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.85	6.31	U	6.31	37.1	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.85	9.07	U	9.07	53.3	ug/m3
106-99-0	1,3-Butadiene	1.30	2.88	U	2.88	11.1	ug/m3
91-20-3	Naphthalene	0.75	3.93	U	3.93	5.24	ug/m3
622-96-8	4-Ethyltoluene	1.20	5.90	U	5.90	24.6	ug/m3
110-54-3	Hexane	4.50	15.9	J	3.88	17.6	ug/m3
107-05-1	Allyl Chloride	1.50	4.70	U	4.70	15.7	ug/m3
123-91-1	1,4-Dioxane	2.10	7.57	U	7.57	18.0	ug/m3
80-62-6	Methyl Methacrylate	0.86	3.52	U	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	156000	2.797
540-36-3	1,4-Difluorobenzene	446000	3.975
3114-55-4	Chlorobenzene-d5	402000	8.898

TENTATIVE IDENTIFIED COMPOUNDS

115-07-1	Propene	14.8	J	1.49	ppbv
000115-11-7	1-Propene, 2-methyl-	22.8	J	1.61	ppbv
64-17-5	Ethanol	55.6	J	1.73	ppbv

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/02/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B2-5-04022025	SDG No.:	Q1728
Lab Sample ID:	Q1728-06	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
VL042260.D	10		04/08/25 13:07	VL040825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
000591-76-4	Hexane, 2-methyl-	10.2		J		4.07	ppbv
000108-87-2	Cyclohexane, methyl-	25.6		J		5.69	ppbv
000624-29-3	Cyclohexane, 1,4-dimethyl-, cis-	12.8		J		7.64	ppbv
000111-65-9	Octane	11.3		J		8.32	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 : VL042260.D
 Acq On : 08 Apr 2025 13:07
 Operator : SY/MD
 Sample : Q1728-06 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-5-04022025

Quant Time: Apr 09 01:54:39 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)

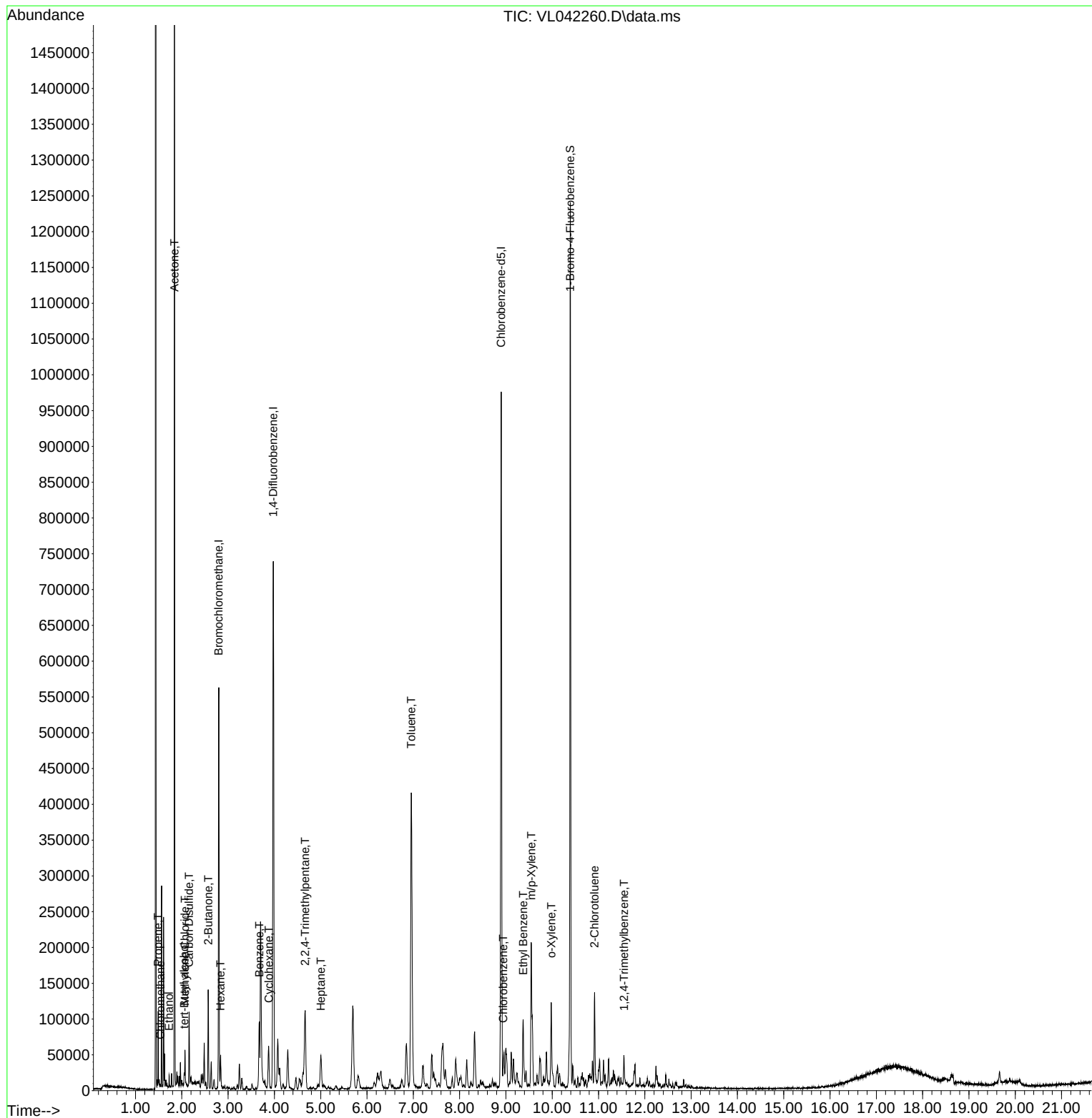
Internal Standards						
1) Bromochloromethane	2.797	49	155754	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.975	114	446160	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.898	117	402493	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	315753	9.553	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.500%
Target Compounds						
					Qvalue	
4) Chloromethane	1.538	50	942	0.100	ppbv	95
9) Propene	1.489	41	15937	1.480	ppbv	89
10) Heptane	5.004	43	19390	0.677	ppbv	97
13) Ethanol	1.726	45	5656	5.556	ppbv	80
15) Acetone	1.842	43	887725	40.753	ppbv	99
17) tert-Butyl alcohol	2.052	59	6563	0.242	ppbv #	88
20) Methylene Chloride	2.069	84	7394	0.911	ppbv	95
26) Hexane	2.839	57	9788	0.448	ppbv #	32
27) Carbon Disulfide	2.159	76	56360	2.407	ppbv #	97
30) Cyclohexane	3.878	84	15879	0.837	ppbv #	85
34) 2-Butanone	2.570	43	86784	2.682	ppbv	98
36) Benzene	3.674	78	58697	1.327	ppbv	94
44) 2,2,4-Trimethylpentane	4.664	57	98142	1.313	ppbv #	85
53) Toluene	6.956	91	298949	5.702	ppbv	98
57) Chlorobenzene	8.940	112	4055	0.106	ppbv #	79
58) Ethyl Benzene	9.374	91	50951	0.713	ppbv	91
59) m/p-Xylene	9.549	91	120893	2.118	ppbv	98
60) o-Xylene	9.979	91	50208	0.877	ppbv	95
71) 2-Chlorotoluene	10.914	91	37512	0.565	ppbv	97
74) 1,2,4-Trimethylbenzene	11.549	105	14207	0.198	ppbv #	70

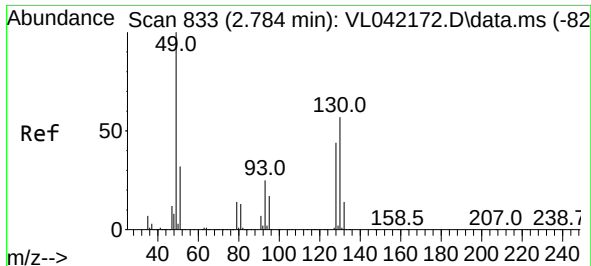
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042260.D
Acq On : 08 Apr 2025 13:07
Operator : SY/MD
Sample : Q1728-06 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025

Quant Time: Apr 09 01:54:39 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

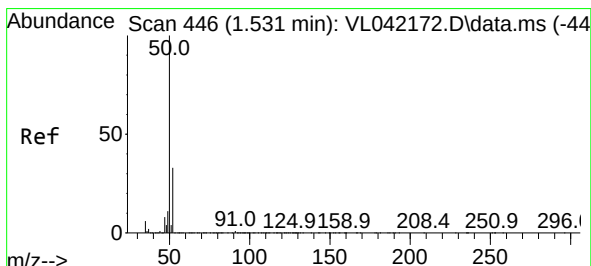
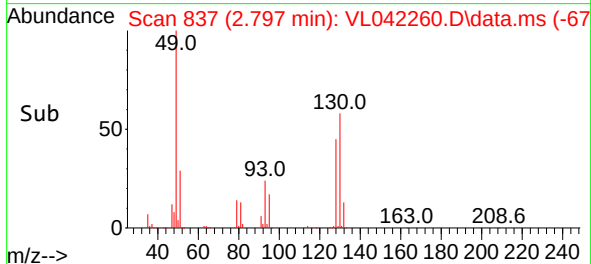
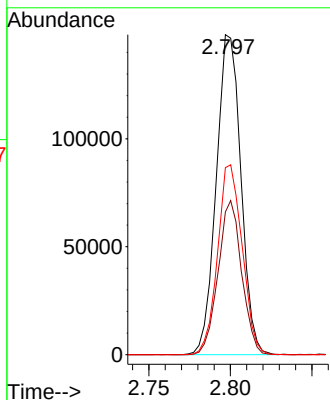
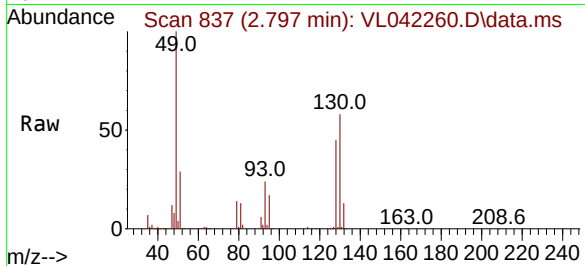




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL042260.D
Acq: 08 Apr 2025 13:07

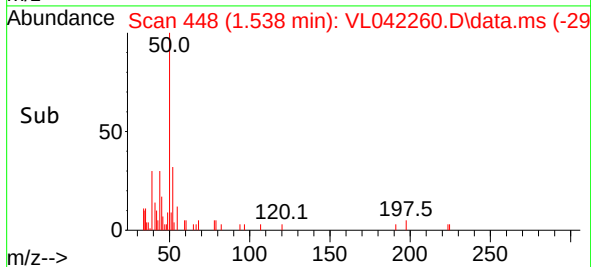
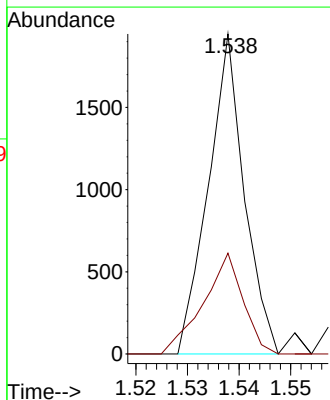
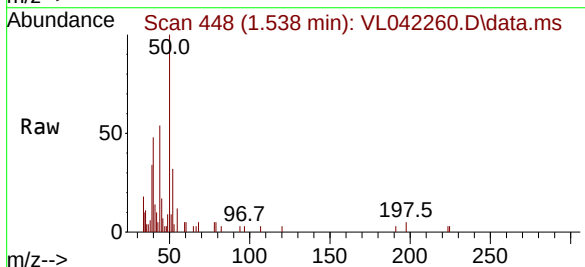
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025

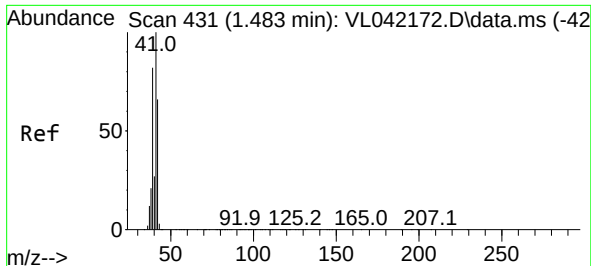
Tgt Ion: 49 Resp: 155754
Ion Ratio Lower Upper
49 100
128 46.0 22.9 68.5
130 59.1 28.8 86.4



#4
Chloromethane
Concen: 0.100 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL042260.D
Acq: 08 Apr 2025 13:07

Tgt Ion: 50 Resp: 942
Ion Ratio Lower Upper
50 100
52 35.4 26.1 39.1





#9

Propene

Concen: 1.480 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042260.D

Acq: 08 Apr 2025 13:07

Instrument :

MSVOA_L

ClientSampleId :

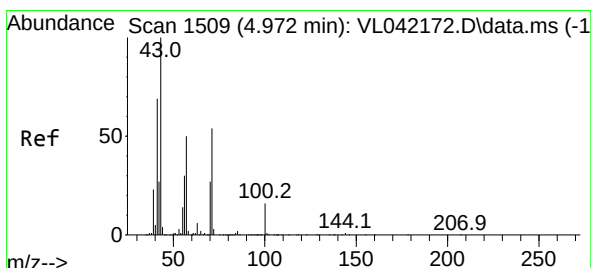
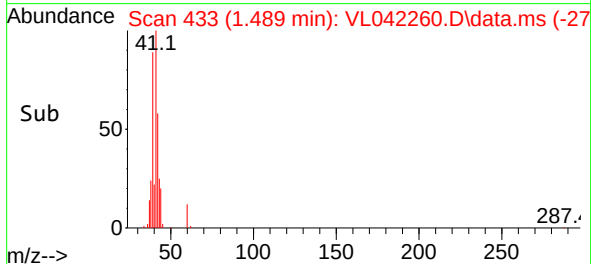
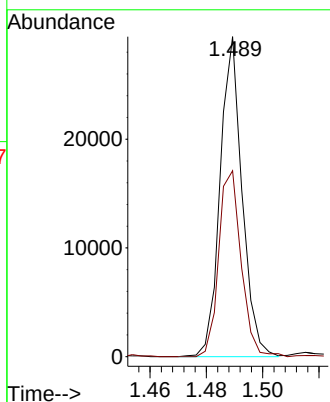
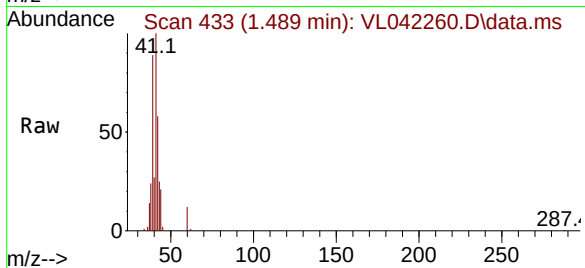
SSSG-B2-5-04022025

Tgt Ion: 41 Resp: 15937

Ion Ratio Lower Upper

41 100

42 60.3 55.4 83.2



#10

Heptane

Concen: 0.677 ppbv

RT: 5.004 min Scan# 1519

Delta R.T. 0.032 min

Lab File: VL042260.D

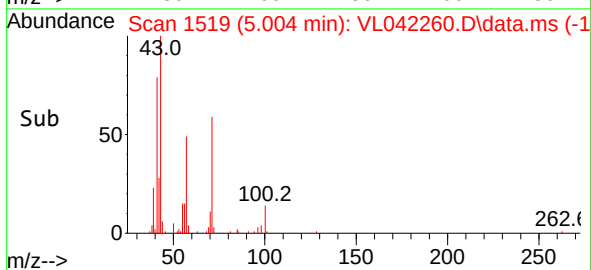
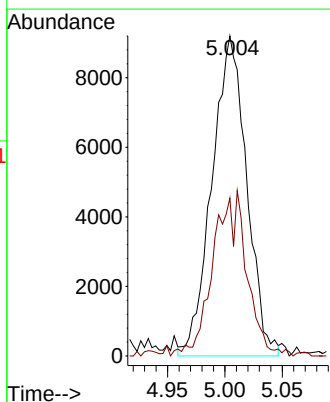
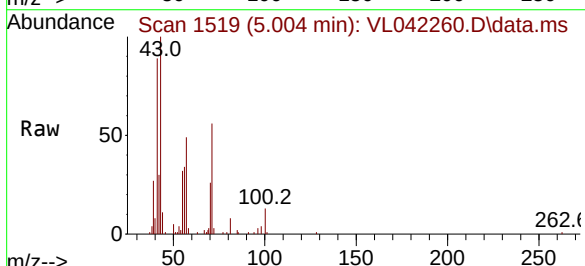
Acq: 08 Apr 2025 13:07

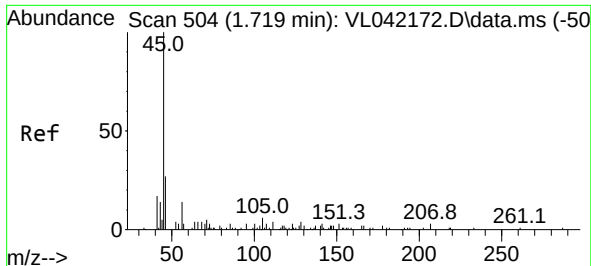
Tgt Ion: 43 Resp: 19390

Ion Ratio Lower Upper

43 100

57 51.6 39.4 59.2

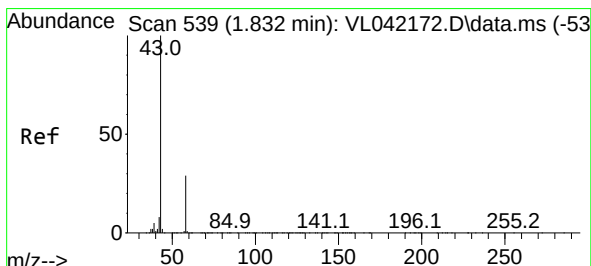
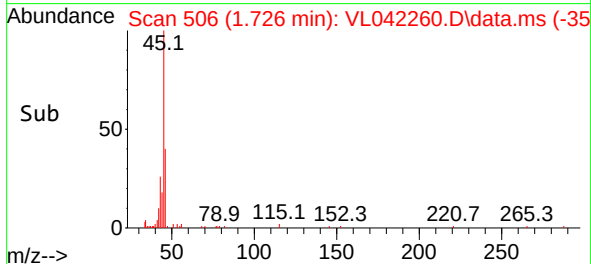
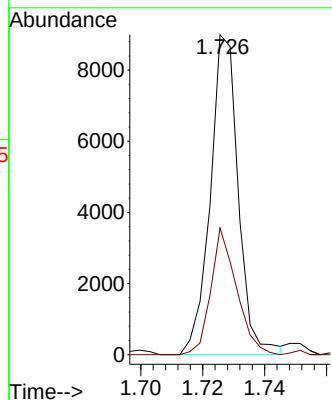
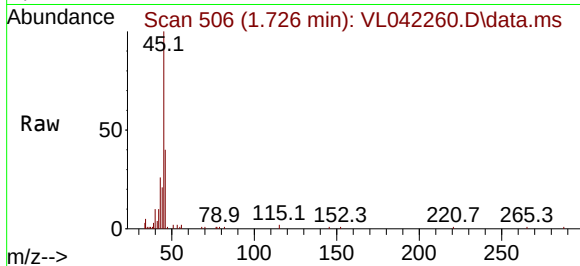




#13
Ethanol
Concen: 5.556 ppbv
RT: 1.726 min Scan# 504
Delta R.T. 0.006 min
Lab File: VL042260.D
Acq: 08 Apr 2025 13:07

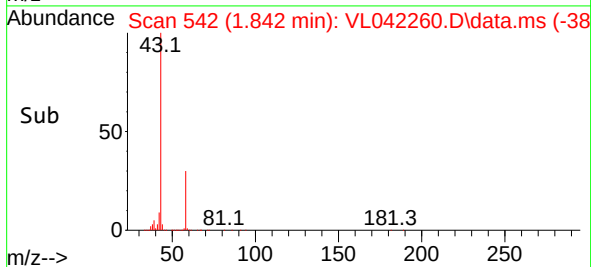
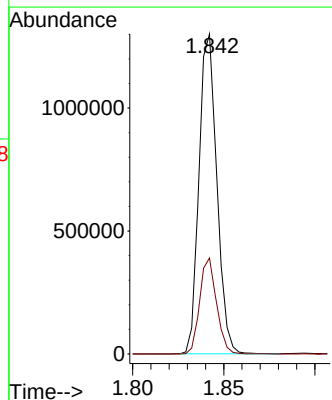
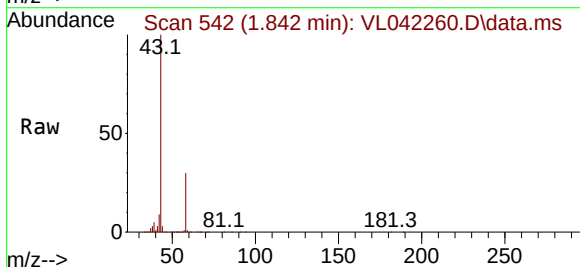
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025

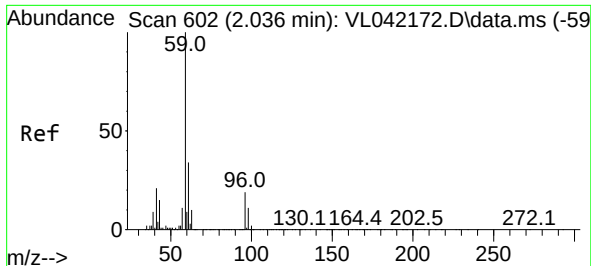
Tgt Ion: 45 Resp: 5656
Ion Ratio Lower Upper
45 100
46 36.9 20.2 80.8



#15
Acetone
Concen: 40.753 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.010 min
Lab File: VL042260.D
Acq: 08 Apr 2025 13:07

Tgt Ion: 43 Resp: 887725
Ion Ratio Lower Upper
43 100
58 28.3 23.2 34.8





#17

tert-Butyl alcohol

Concen: 0.242 ppbv

RT: 2.052 min Scan# 602

Delta R.T. 0.016 min

Lab File: VL042260.D

Acq: 08 Apr 2025 13:07

Instrument :

MSVOA_L

ClientSampleId :

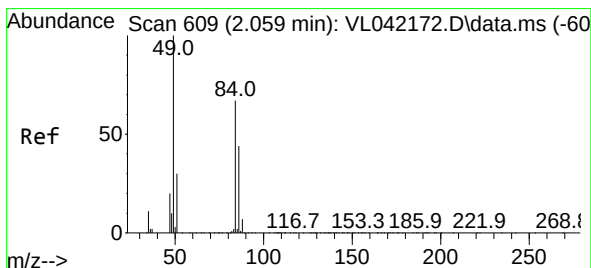
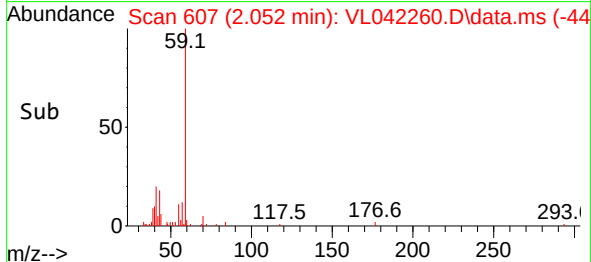
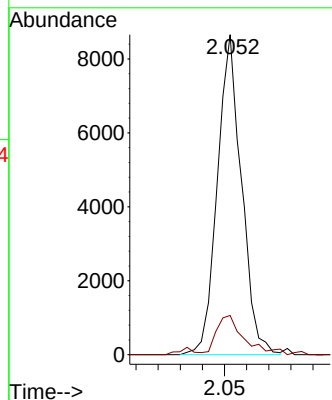
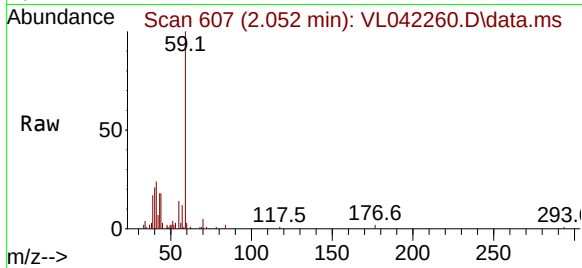
SSSG-B2-5-04022025

Tgt Ion: 59 Resp: 6563

Ion Ratio Lower Upper

59 100

57 15.7 8.9 13.3#



#20

Methylene Chloride

Concen: 0.911 ppbv

RT: 2.069 min Scan# 612

Delta R.T. 0.010 min

Lab File: VL042260.D

Acq: 08 Apr 2025 13:07

Tgt Ion: 84 Resp: 7394

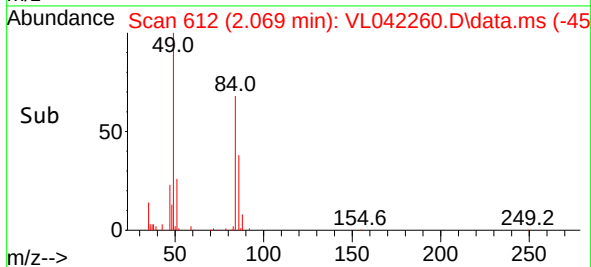
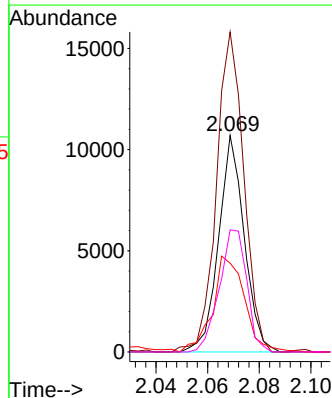
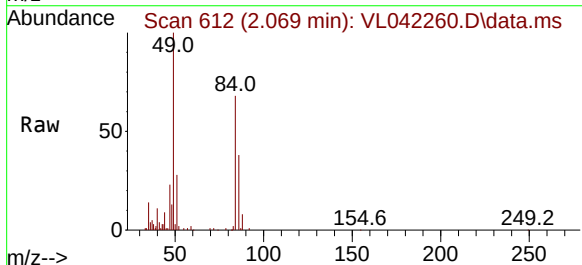
Ion Ratio Lower Upper

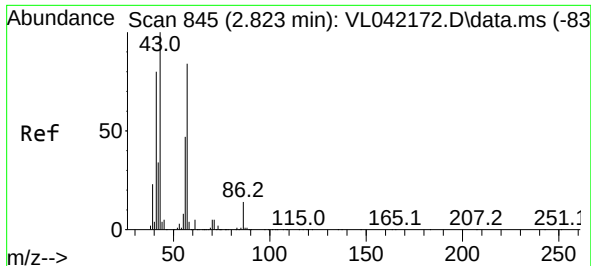
84 100

49 147.8 120.2 180.4

51 41.1 37.4 56.0

86 56.4 52.4 78.6

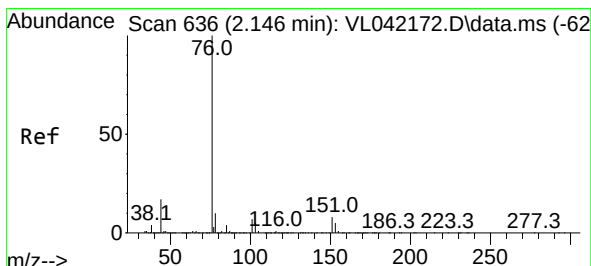
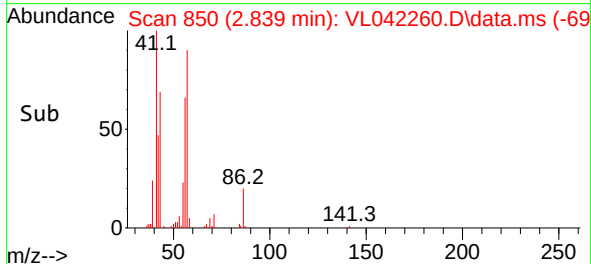
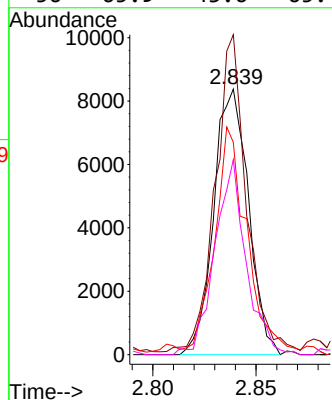
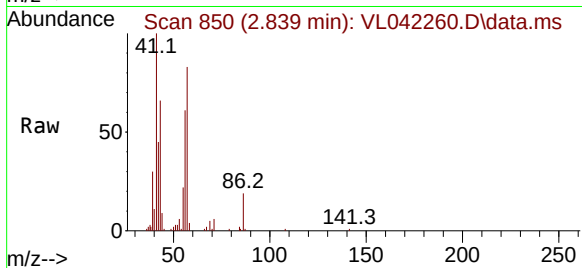




#26
Hexane
Concen: 0.448 ppbv
RT: 2.839 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042260.D
Acq: 08 Apr 2025 13:07

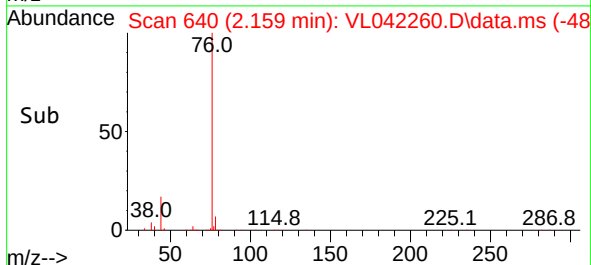
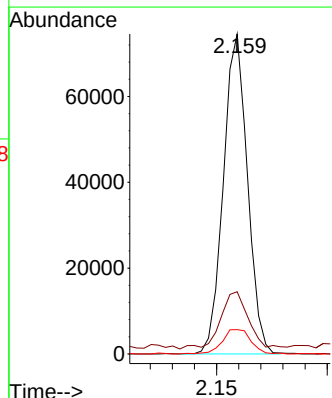
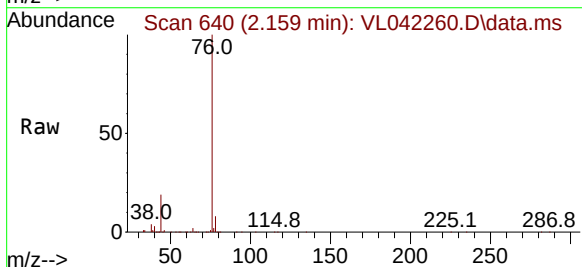
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025

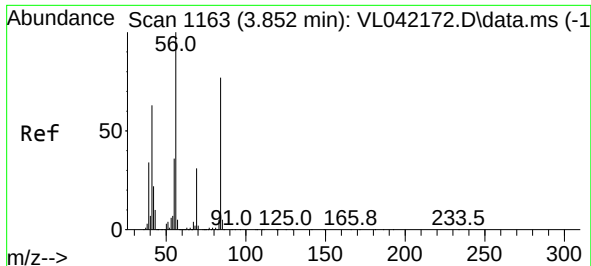
Tgt Ion: 57 Resp: 9788
Ion Ratio Lower Upper
57 100
41 106.4 76.6 114.8
43 81.6 207.8 311.8#
56 65.9 43.6 65.4#



#27
Carbon Disulfide
Concen: 2.407 ppbv
RT: 2.159 min Scan# 640
Delta R.T. 0.013 min
Lab File: VL042260.D
Acq: 08 Apr 2025 13:07

Tgt Ion: 76 Resp: 56360
Ion Ratio Lower Upper
76 100
44 17.7 14.7 22.1
78 9.3 9.3 13.9#

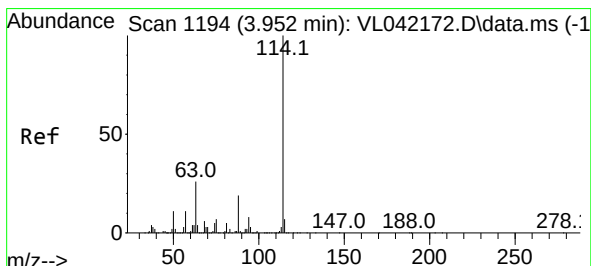
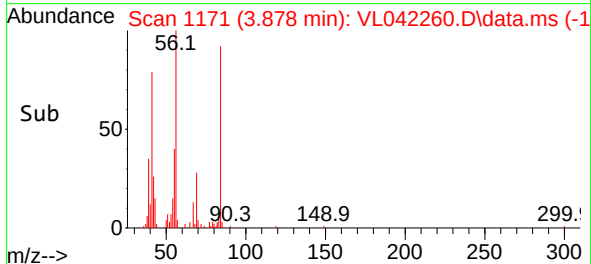
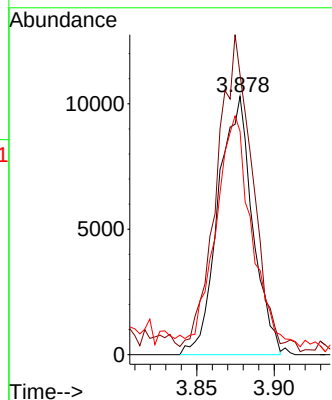
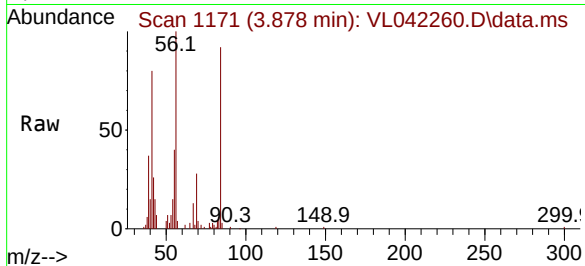




#30
Cyclohexane
Concen: 0.837 ppbv
RT: 3.878 min Scan# 1163
Delta R.T. 0.026 min
Lab File: VL042260.D
Acq: 08 Apr 2025 13:07

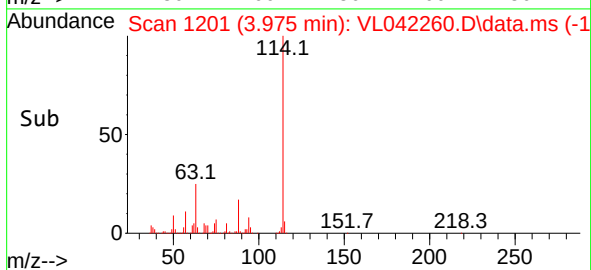
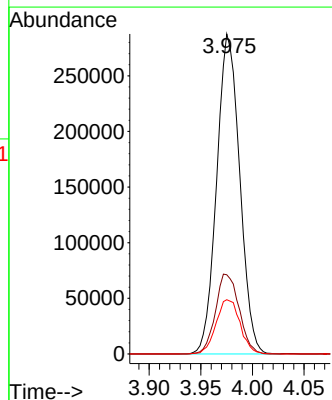
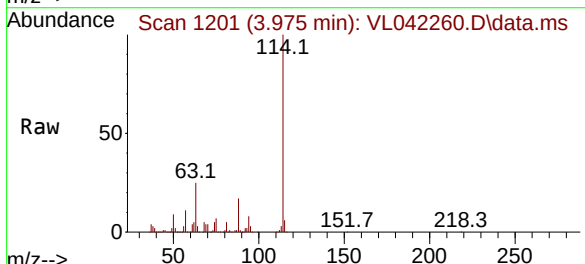
Instrument :
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ClientSampleId :
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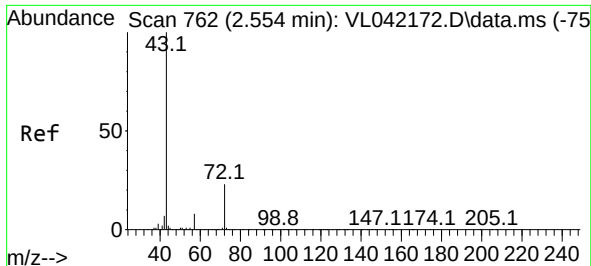
Tgt Ion: 84 Resp: 15879
Ion Ratio Lower Upper
84 100
56 138.3 102.8 154.2
41 106.3 66.5 99.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.975 min Scan# 1201
Delta R.T. 0.023 min
Lab File: VL042260.D
Acq: 08 Apr 2025 13:07

Tgt Ion: 114 Resp: 446160
Ion Ratio Lower Upper
114 100
63 25.6 20.7 31.1
88 17.7 15.0 22.4

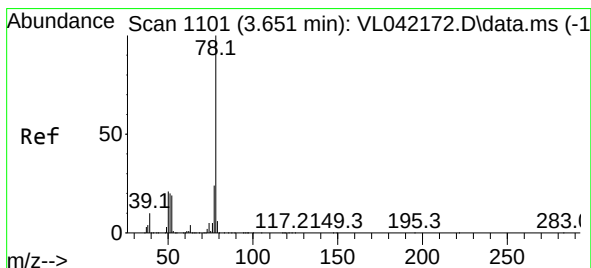
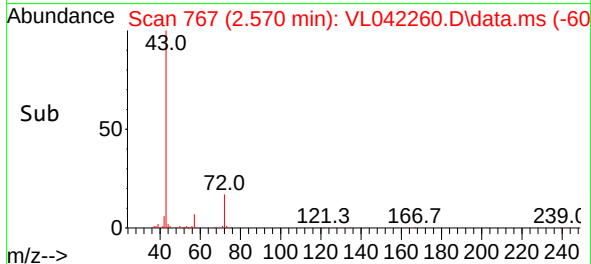
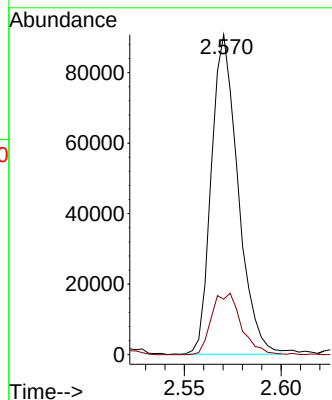
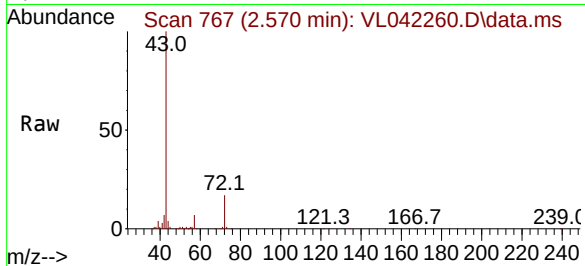




#34
2-Butanone
Concen: 2.682 ppbv
RT: 2.570 min Scan# 71
Delta R.T. 0.016 min
Lab File: VL042260.D
Acq: 08 Apr 2025 13:07

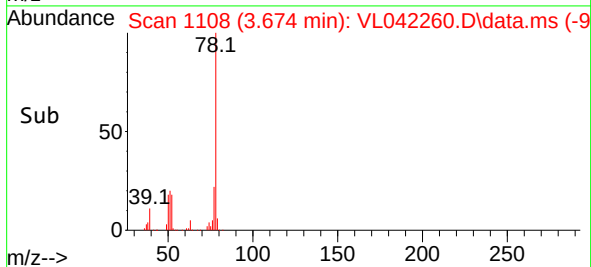
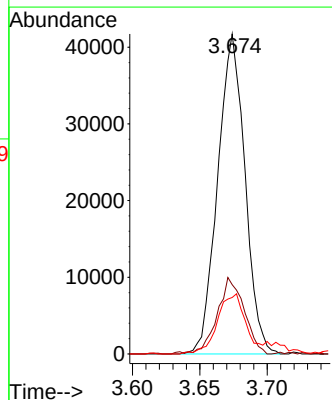
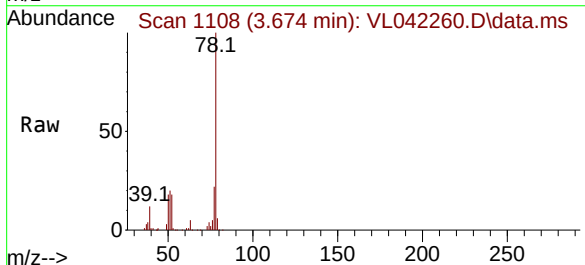
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025

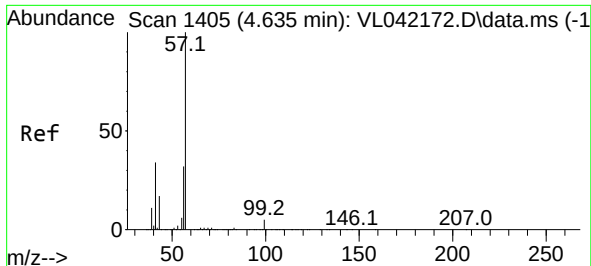
Tgt Ion: 43 Resp: 86784
Ion Ratio Lower Upper
43 100
72 21.7 18.2 27.2



#36
Benzene
Concen: 1.327 ppbv
RT: 3.674 min Scan# 1108
Delta R.T. 0.023 min
Lab File: VL042260.D
Acq: 08 Apr 2025 13:07

Tgt Ion: 78 Resp: 58697
Ion Ratio Lower Upper
78 100
77 21.1 19.1 28.7
50 17.7 16.6 24.8





#44

2,2,4-Trimethylpentane

Concen: 1.313 ppbv

RT: 4.664 min Scan# 1414

Delta R.T. 0.029 min

Lab File: VL042260.D

Acq: 08 Apr 2025 13:07

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-5-04022025

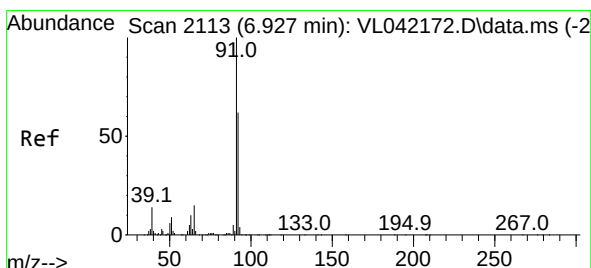
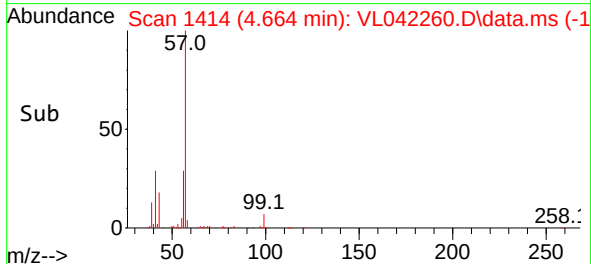
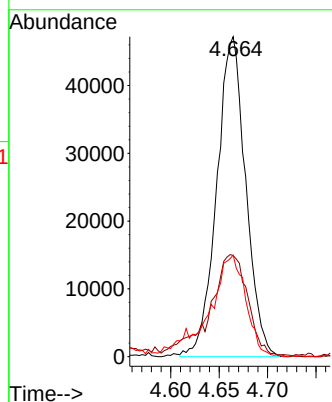
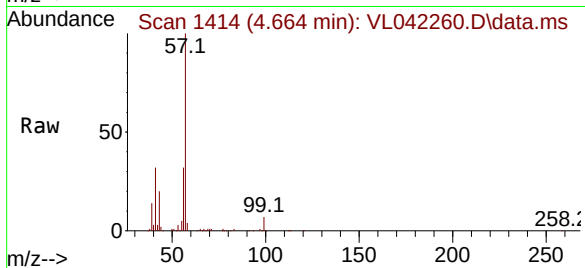
Tgt Ion: 57 Resp: 98142

Ion Ratio Lower Upper

57 100

41 41.5 26.8 40.2#

56 40.6 25.6 38.4#



#53

Toluene

Concen: 5.702 ppbv

RT: 6.956 min Scan# 2122

Delta R.T. 0.029 min

Lab File: VL042260.D

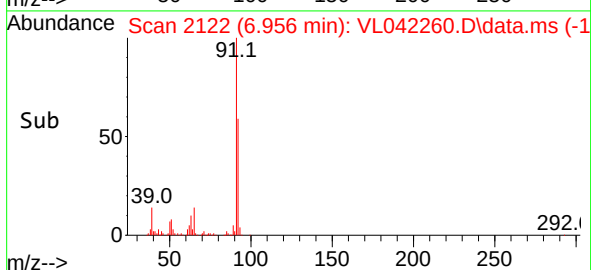
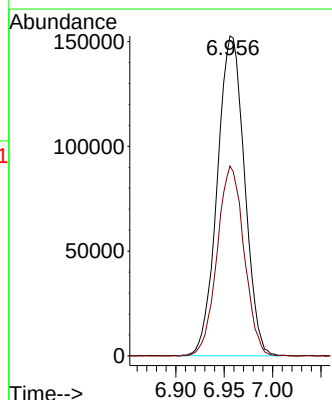
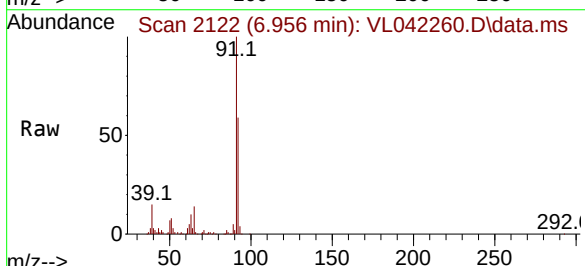
Acq: 08 Apr 2025 13:07

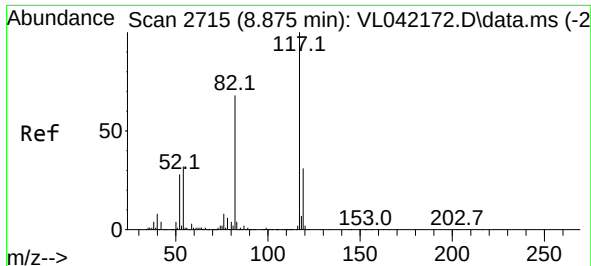
Tgt Ion: 91 Resp: 298949

Ion Ratio Lower Upper

91 100

92 58.8 48.4 72.6

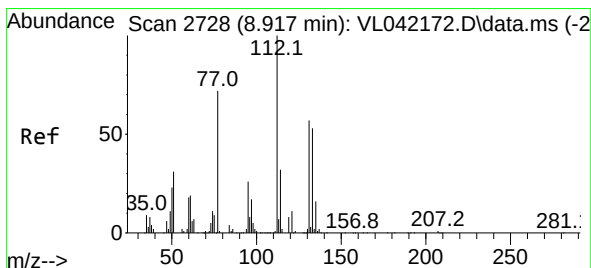
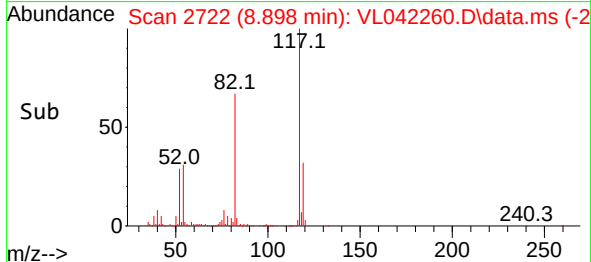
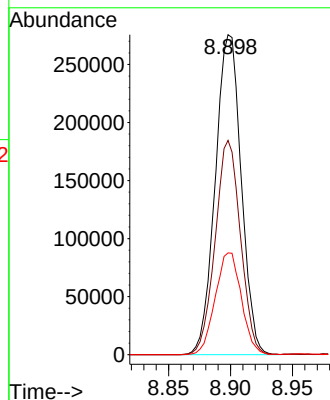
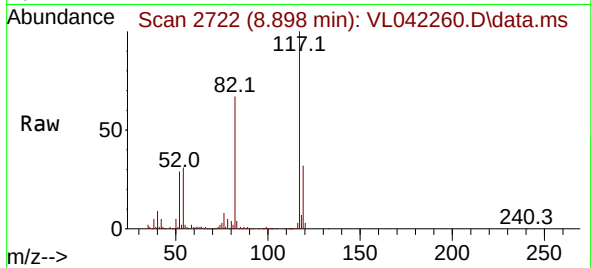




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 21
Delta R.T. 0.023 min
Lab File: VL042260.D
Acq: 08 Apr 2025 13:07

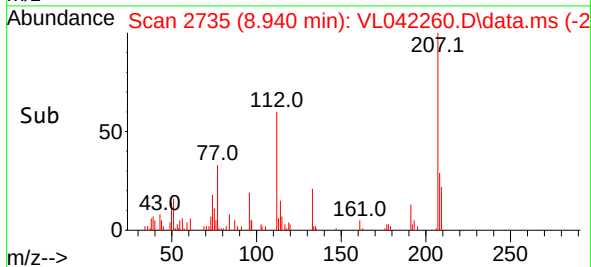
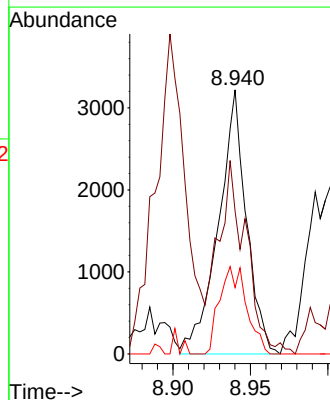
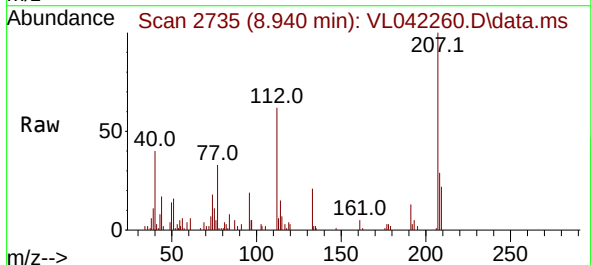
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025

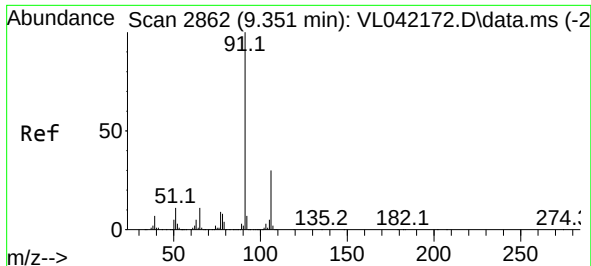
Tgt Ion:117 Resp: 402493
Ion Ratio Lower Upper
117 100
82 65.3 55.8 83.6
119 32.1 25.5 38.3



#57
Chlorobenzene
Concen: 0.106 ppbv
RT: 8.940 min Scan# 2735
Delta R.T. 0.023 min
Lab File: VL042260.D
Acq: 08 Apr 2025 13:07

Tgt Ion:112 Resp: 4055
Ion Ratio Lower Upper
112 100
77 52.0 58.2 87.2#
114 25.1 29.1 35.5#





#58

Ethyl Benzene

Concen: 0.713 ppbv

RT: 9.374 min Scan# 2869

Delta R.T. 0.023 min

Lab File: VL042260.D

Acq: 08 Apr 2025 13:07

Instrument :

MSVOA_1

ClientSampleId :

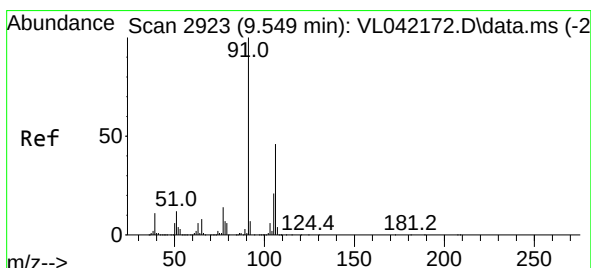
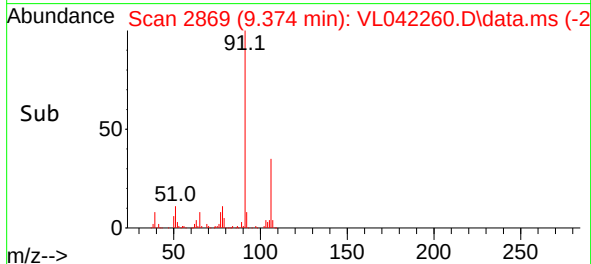
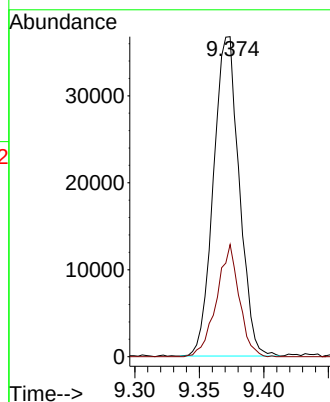
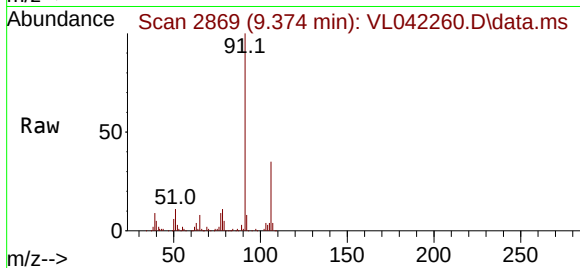
SSSG-B2-5-04022025

Tgt Ion: 91 Resp: 50951

Ion Ratio Lower Upper

91 100

106 35.1 24.2 36.2



#59

m/p-Xylene

Concen: 2.118 ppbv

RT: 9.549 min Scan# 2923

Delta R.T. 0.000 min

Lab File: VL042260.D

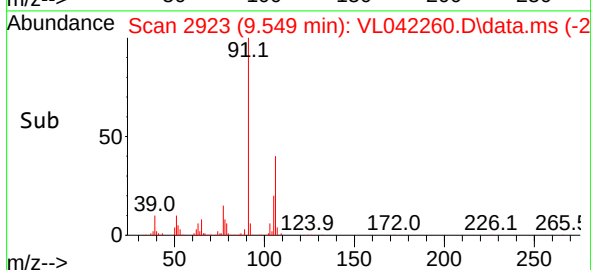
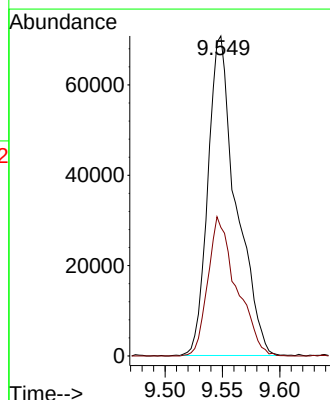
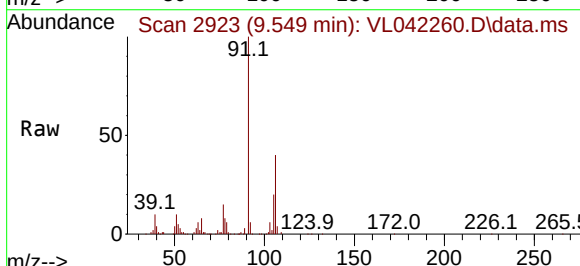
Acq: 08 Apr 2025 13:07

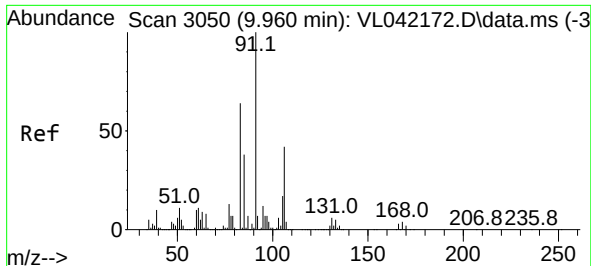
Tgt Ion: 91 Resp: 120893

Ion Ratio Lower Upper

91 100

106 44.3 36.4 54.6

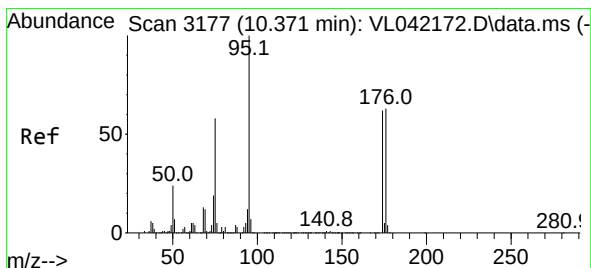
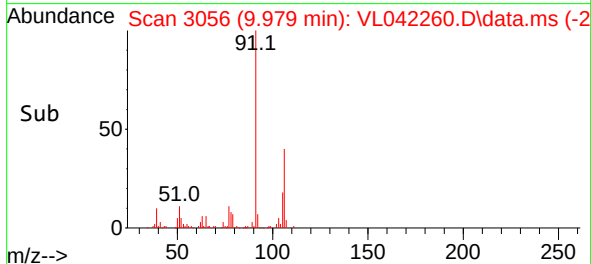
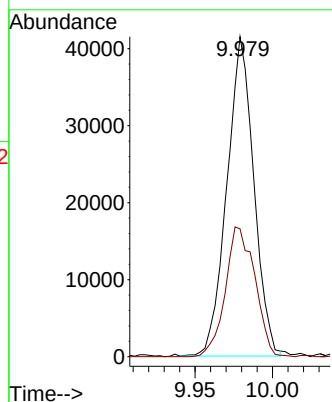
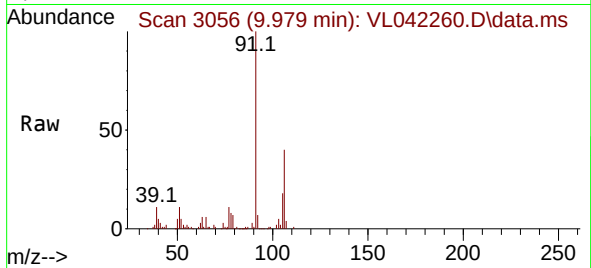




#60
o-Xylene
Concen: 0.877 ppbv
RT: 9.979 min Scan# 3056
Delta R.T. 0.019 min
Lab File: VL042260.D
Acq: 08 Apr 2025 13:07

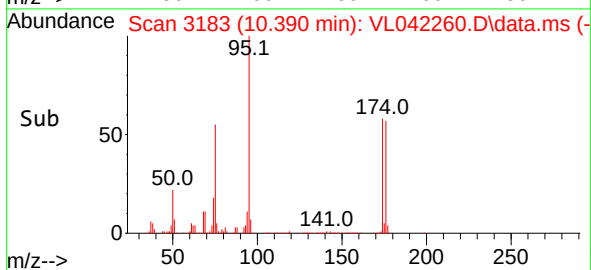
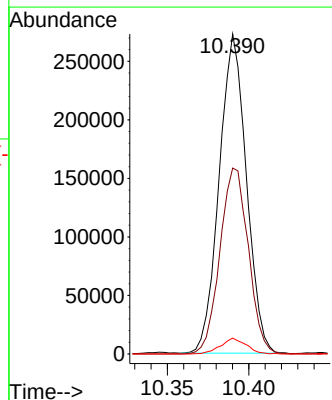
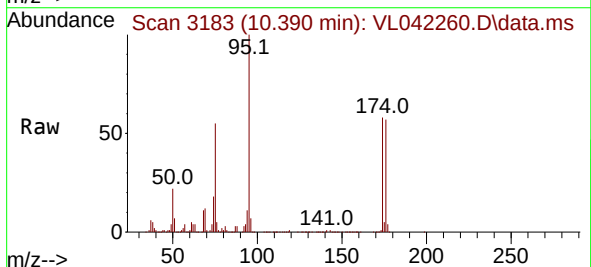
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025

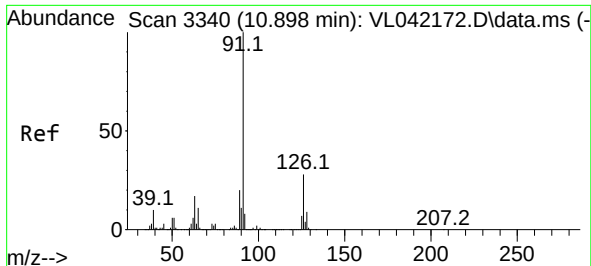
Tgt Ion: 91 Resp: 50208
Ion Ratio Lower Upper
91 100
106 44.8 20.8 62.5



#68
1-Bromo-4-Fluorobenzene
Concen: 9.553 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. 0.019 min
Lab File: VL042260.D
Acq: 08 Apr 2025 13:07

Tgt Ion: 95 Resp: 315753
Ion Ratio Lower Upper
95 100
174 61.0 50.6 76.0
175 4.7 3.8 5.6

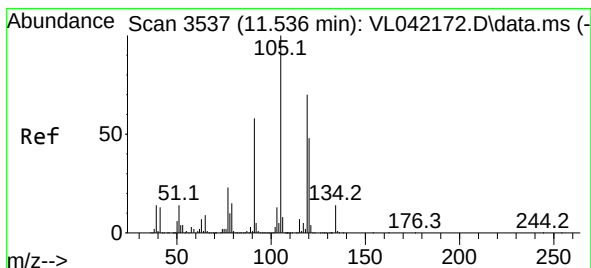
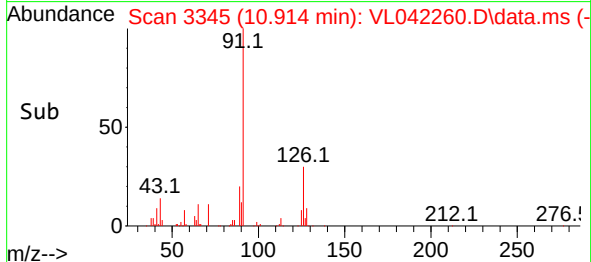
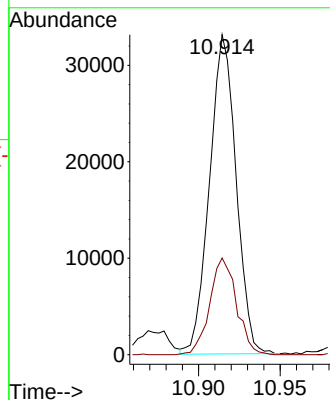
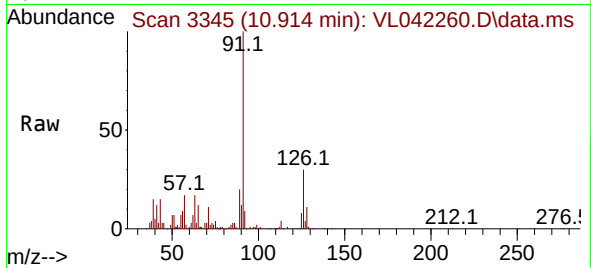




#71
2-Chlorotoluene
Concen: 0.565 ppbv
RT: 10.914 min Scan# 31
Delta R.T. 0.016 min
Lab File: VL042260.D
Acq: 08 Apr 2025 13:07

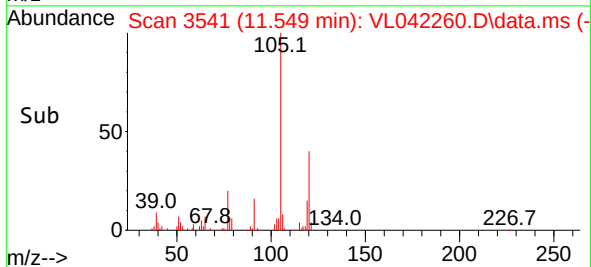
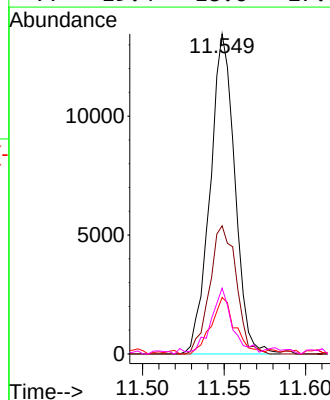
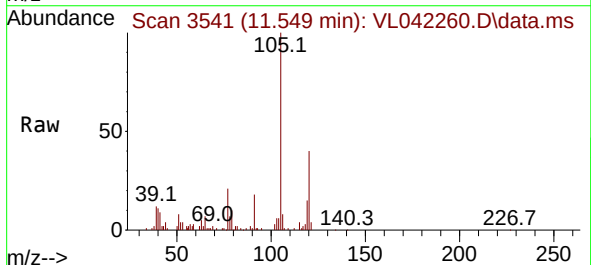
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025

Tgt Ion: 91 Resp: 37512
Ion Ratio Lower Upper
91 100
126 30.4 11.6 46.4



#74
1,2,4-Trimethylbenzene
Concen: 0.198 ppbv
RT: 11.549 min Scan# 3541
Delta R.T. 0.013 min
Lab File: VL042260.D
Acq: 08 Apr 2025 13:07

Tgt Ion: 105 Resp: 14207
Ion Ratio Lower Upper
105 100
120 40.0 38.6 58.0
91 17.6 46.2 69.2#
77 19.4 18.6 27.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042260.D
 Acq On : 08 Apr 2025 13:07
 Operator : SY/MD
 Sample : Q1728-06 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-5-04022025

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: VL042260.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	422	rBV	2714597	2160542	100.00%	15.044%
2	1.489	430	433	437	rBV2	103703	61624	2.85%	0.429%
3	1.564	452	456	460	rBV	281062	154402	7.15%	1.075%
4	1.606	465	469	473	rBV	236342	134640	6.23%	0.938%
5	1.842	537	542	550	rBV	2064922	1414670	65.48%	9.850%
6	2.069	608	612	622	rVB2	48480	39207	1.81%	0.273%
7	2.159	632	640	645	rBV	103796	83913	3.88%	0.584%
8	2.483	734	740	747	rVB2	59877	57896	2.68%	0.403%
9	2.570	760	767	779	rBV2	138306	136590	6.32%	0.951%
10	2.635	779	787	796	rVB	38188	41753	1.93%	0.291%
11	2.800	828	838	845	rBV	559648	589466	27.28%	4.104%
12	2.839	845	850	856	rVB	43543	43705	2.02%	0.304%
13	3.244	967	975	984	rVB4	35058	46914	2.17%	0.327%
14	3.674	1092	1108	1112	rBV2	94191	140578	6.51%	0.979%
15	3.700	1112	1116	1137	rVB2	227186	362083	16.76%	2.521%
16	3.875	1161	1170	1180	rVB5	57685	92804	4.30%	0.646%
17	3.975	1188	1201	1214	rBV2	736280	1167752	54.05%	8.131%
18	4.072	1221	1231	1240	rBV3	65877	118880	5.50%	0.828%
19	4.111	1240	1243	1256	rVB5	29632	43574	2.02%	0.303%
20	4.289	1285	1298	1308	rBV3	53521	96506	4.47%	0.672%
21	4.467	1339	1353	1362	rBV8	15634	30263	1.40%	0.211%
22	4.535	1362	1374	1380	rBV6	14794	26261	1.22%	0.183%
23	4.664	1402	1414	1432	rVB	109735	248715	11.51%	1.732%
24	5.004	1507	1519	1531	rBV4	43996	88577	4.10%	0.617%
25	5.694	1709	1732	1751	rBV4	115997	299039	13.84%	2.082%
26	5.804	1753	1766	1769	rBV7	17628	27620	1.28%	0.192%
27	6.302	1913	1920	1934	rVB7	22412	47905	2.22%	0.334%
28	6.493	1966	1979	1989	rBV9	12555	29856	1.38%	0.208%
29	6.852	2074	2090	2103	rBV5	61074	145093	6.72%	1.010%
30	6.956	2105	2122	2142	rBV	410204	893447	41.35%	6.221%
31	7.202	2182	2198	2201	rBV6	31062	44498	2.06%	0.310%
32	7.396	2245	2258	2259	rBV4	46576	54413	2.52%	0.379%
33	7.639	2314	2333	2343	rBV9	61836	186265	8.62%	1.297%
34	7.694	2343	2350	2366	rVB7	25612	52563	2.43%	0.366%
35	7.917	2406	2419	2437	rBV4	40493	97270	4.50%	0.677%
36	8.027	2448	2453	2465	rVB10	15410	26946	1.25%	0.188%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042260.D
Acq On : 08 Apr 2025 13:07
Operator : SY/MD
Sample : Q1728-06 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025

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

37	8.154	2482	2492	2506	rVB7	39165	69643	3.22%	0.485%
38	8.325	2531	2545	2563	rVB8	78507	164434	7.61%	1.145%
39	8.898	2706	2722	2732	rBV	971758	1457354	67.45%	10.148%
40	8.956	2732	2740	2746	rVV4	48628	89294	4.13%	0.622%
41	9.002	2746	2754	2769	rVB8	53838	133745	6.19%	0.931%
42	9.115	2781	2789	2796	rBV2	44603	62708	2.90%	0.437%
43	9.160	2796	2803	2812	rVV4	32406	49709	2.30%	0.346%
44	9.235	2817	2826	2834	rBV10	14446	26164	1.21%	0.182%
45	9.374	2859	2869	2881	rBV2	94807	163778	7.58%	1.140%
46	9.432	2881	2887	2897	rVB6	22446	34472	1.60%	0.240%
47	9.545	2913	2922	2928	rBV	200553	298338	13.81%	2.077%
48	9.568	2928	2929	2941	rVB4	97215	96102	4.45%	0.669%
49	9.730	2970	2979	2981	rBV3	36908	41562	1.92%	0.289%
50	9.746	2983	2984	2994	rVB2	37166	30364	1.41%	0.211%
51	9.875	3015	3024	3033	rVB3	42142	60770	2.81%	0.423%
52	9.979	3047	3056	3065	rBV2	110532	154438	7.15%	1.075%
53	10.115	3094	3098	3105	rVB4	24657	30022	1.39%	0.209%
54	10.160	3105	3112	3123	rVB8	17556	28569	1.32%	0.199%
55	10.390	3164	3183	3194	rBV	1235345	1557956	72.11%	10.848%
56	10.442	3194	3199	3208	rVB6	27363	37943	1.76%	0.264%
57	10.869	3326	3331	3337	rVB5	30107	35848	1.66%	0.250%
58	10.914	3337	3345	3356	rBV2	125975	154937	7.17%	1.079%
59	11.021	3373	3378	3387	rVB7	36353	53377	2.47%	0.372%
60	11.109	3399	3405	3411	rBV	34071	39105	1.81%	0.272%
61	11.219	3427	3439	3446	rBV6	38915	54937	2.54%	0.383%
62	11.549	3534	3541	3553	rBV	39939	52014	2.41%	0.362%
63	11.788	3610	3615	3621	rVB3	30648	36871	1.71%	0.257%
64	12.241	3748	3755	3759	rBV3	29004	32930	1.52%	0.229%
65	19.663	6037	6048	6057	rBV3	14654	27946	1.29%	0.195%

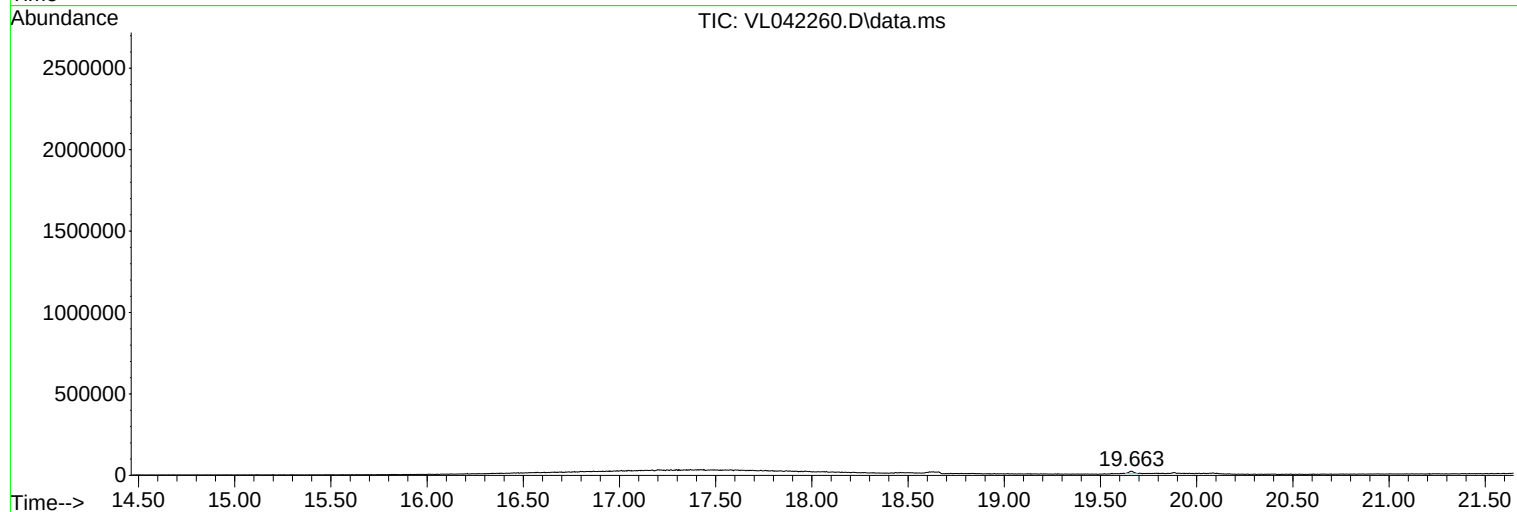
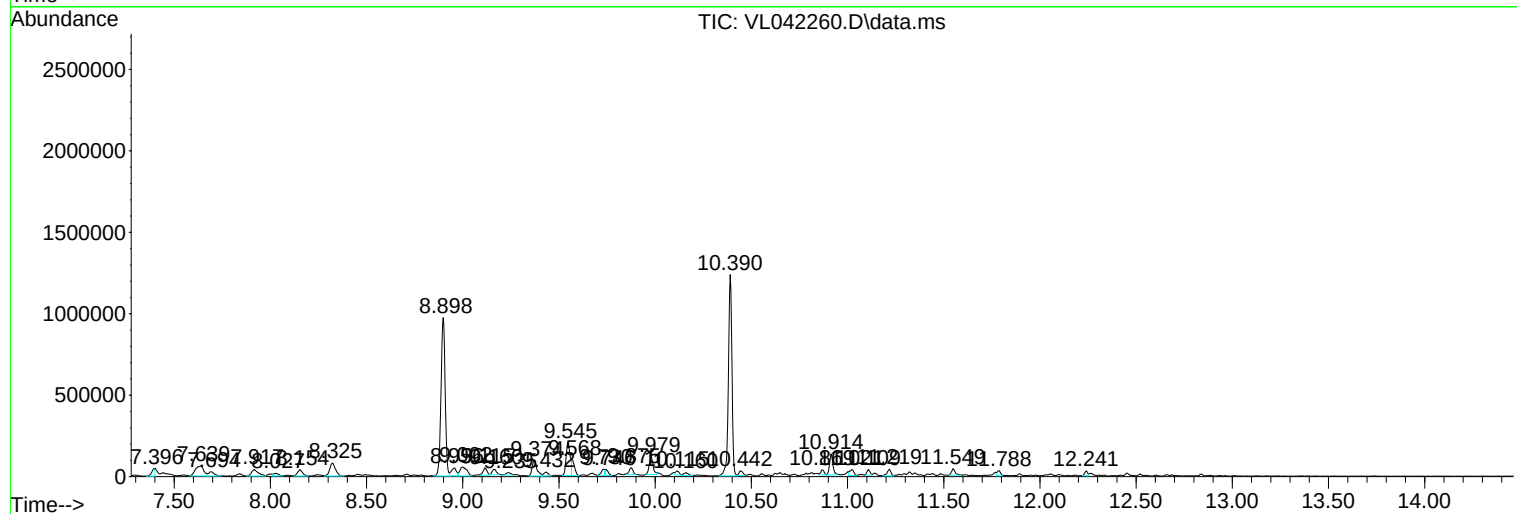
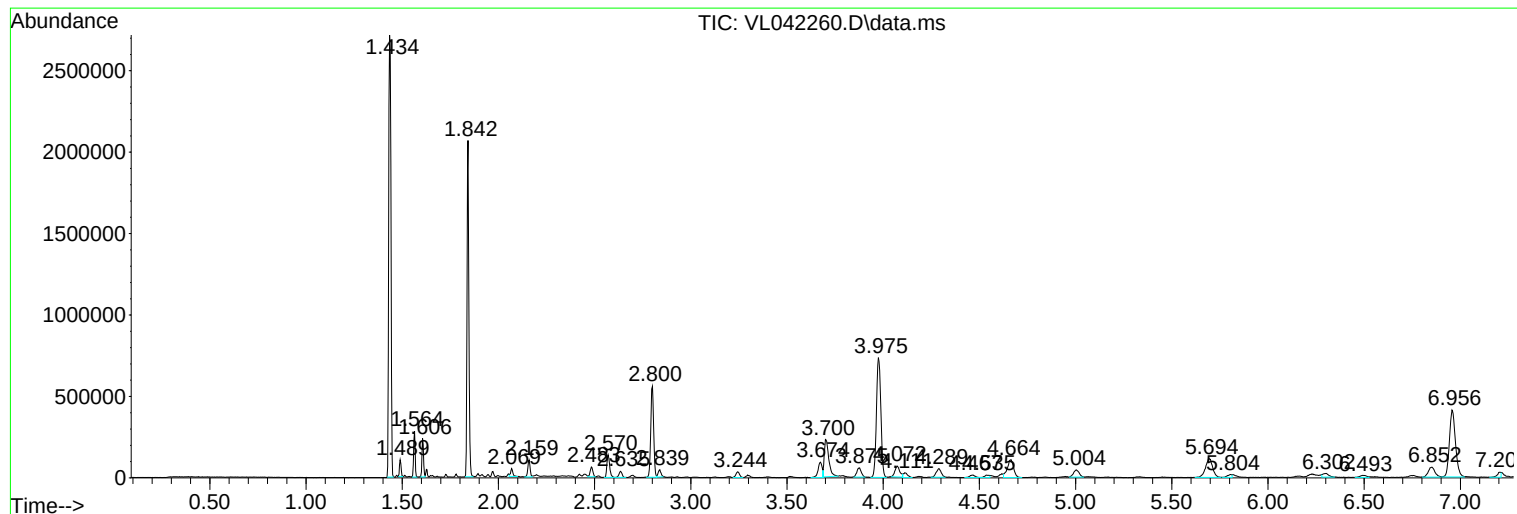
Sum of corrected areas: 14361560

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042260.D
Acq On : 08 Apr 2025 13:07
Operator : SY/MD
Sample : Q1728-06 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025

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 : VL042260.D
Acq On : 08 Apr 2025 13:07
Operator : SY/MD
Sample : Q1728-06 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025

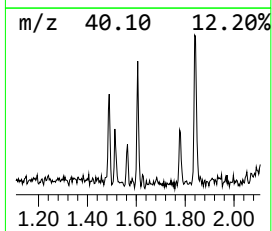
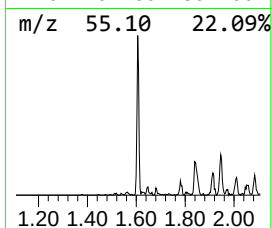
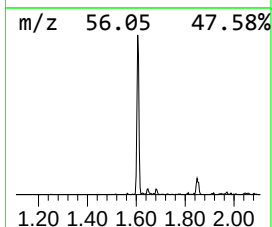
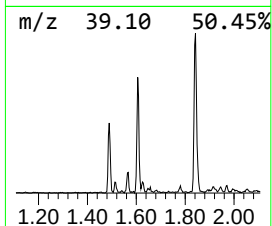
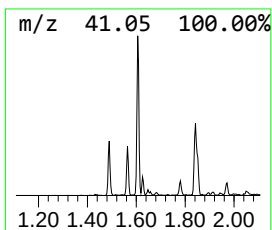
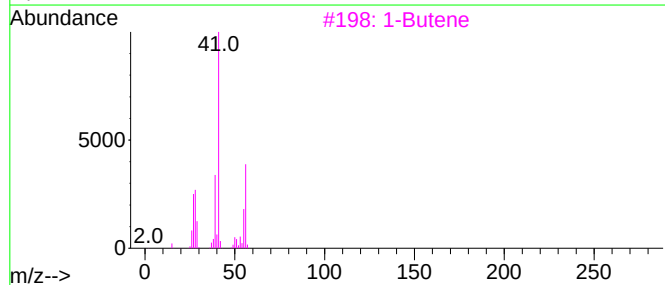
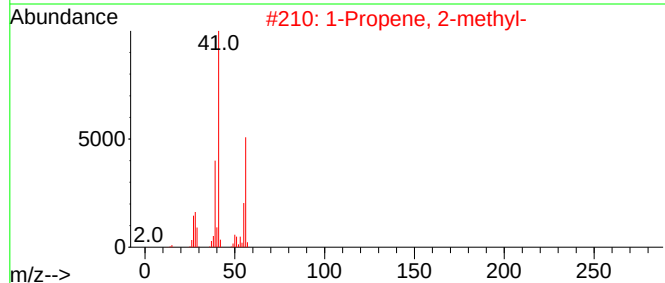
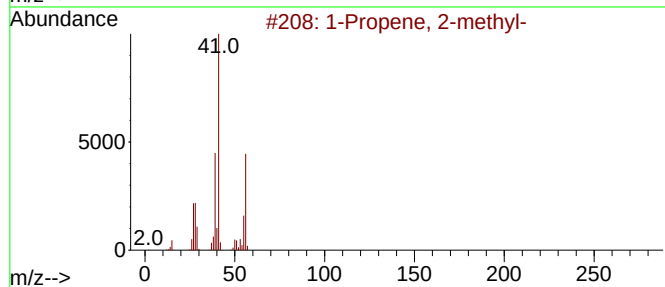
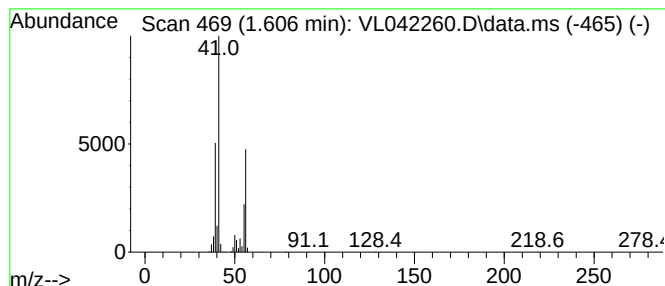
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 2 1-Propene, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.606	2.28 ppbv	134640	Bromochloromethane	2.797

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	90
3		1-Butene	56	C4H8	000106-98-9	87
4		1-Butene	56	C4H8	000106-98-9	87
5		1-Butene	56	C4H8	000106-98-9	87



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042260.D
Acq On : 08 Apr 2025 13:07
Operator : SY/MD
Sample : Q1728-06 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025

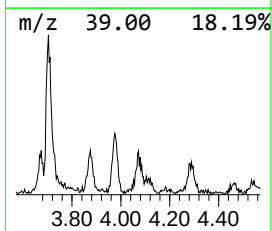
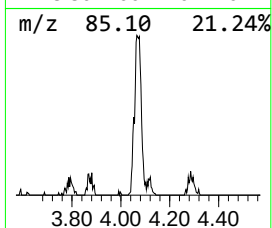
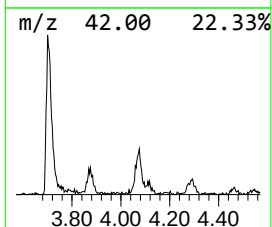
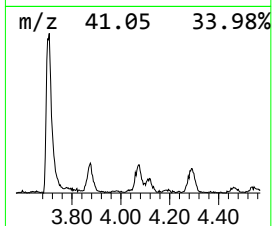
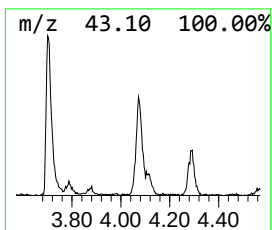
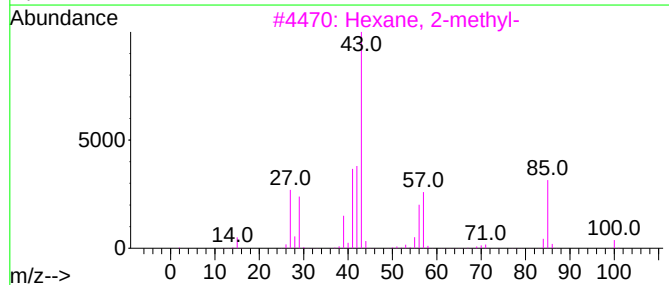
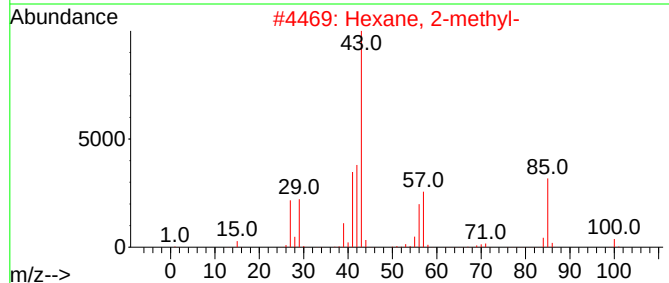
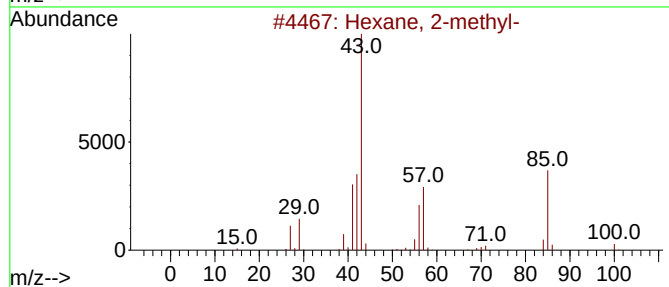
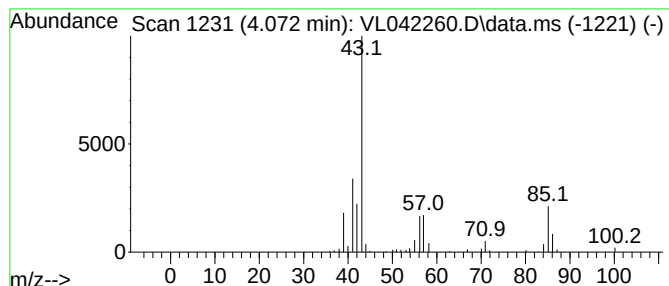
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 3 Hexane, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.072	1.02 ppbv	118880	1,4-Difluorobenzene	3.975

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexane, 2-methyl-	100	C7H16	000591-76-4	72
2			Hexane, 2-methyl-	100	C7H16	000591-76-4	72
3			Hexane, 2-methyl-	100	C7H16	000591-76-4	64
4			N-Vinylacetamide	85	C4H7NO	005202-78-8	50
5			Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	37



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042260.D
Acq On : 08 Apr 2025 13:07
Operator : SY/MD
Sample : Q1728-06 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025

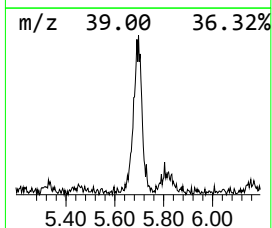
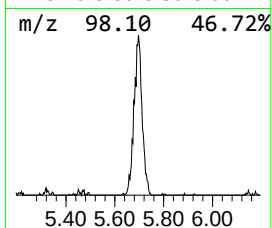
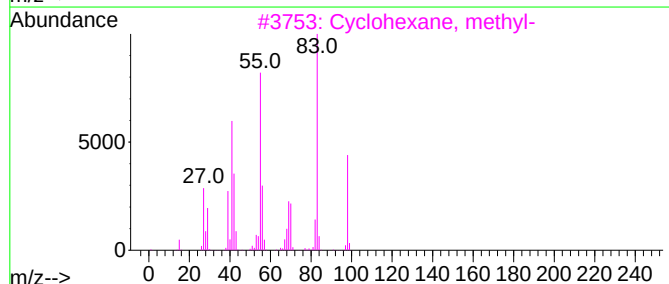
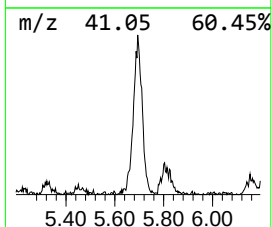
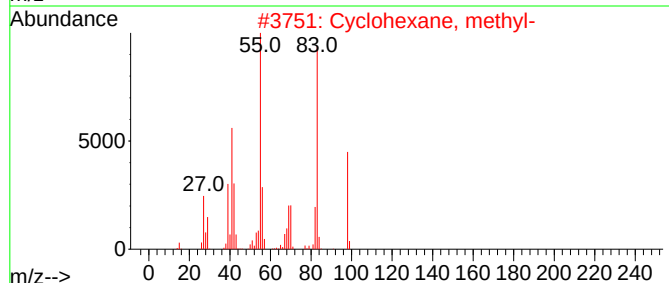
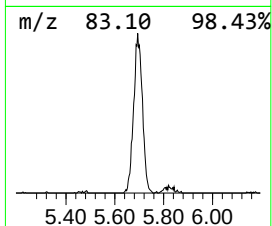
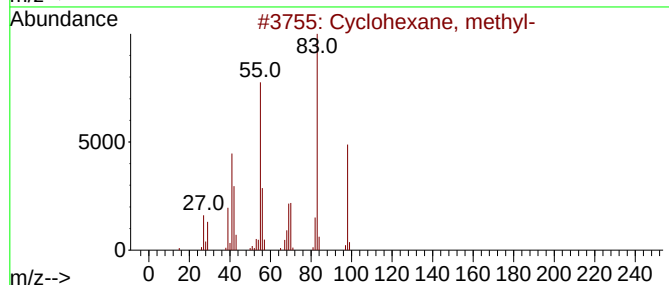
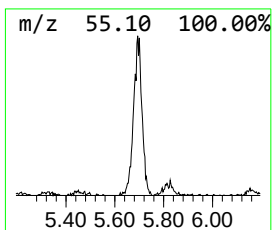
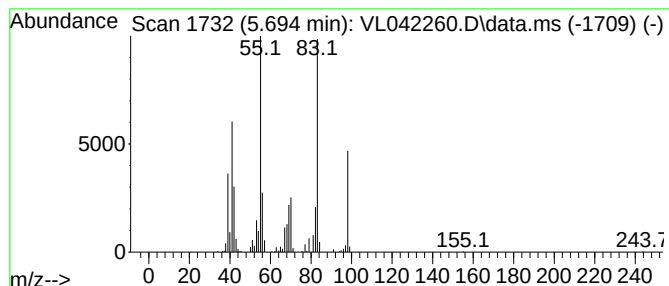
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 4 Cyclohexane, methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.694	2.56 ppbv	299039	1,4-Difluorobenzene	3.975

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclohexane, methyl-	98	C7H14	000108-87-2	94
2			Cyclohexane, methyl-	98	C7H14	000108-87-2	94
3			Cyclohexane, methyl-	98	C7H14	000108-87-2	87
4			Cyclohexane, methyl-	98	C7H14	000108-87-2	87
5			Cyclohexane, methyl-	98	C7H14	000108-87-2	72



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042260.D
Acq On : 08 Apr 2025 13:07
Operator : SY/MD
Sample : Q1728-06 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025

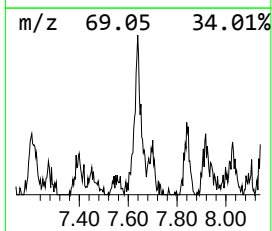
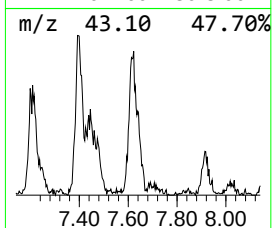
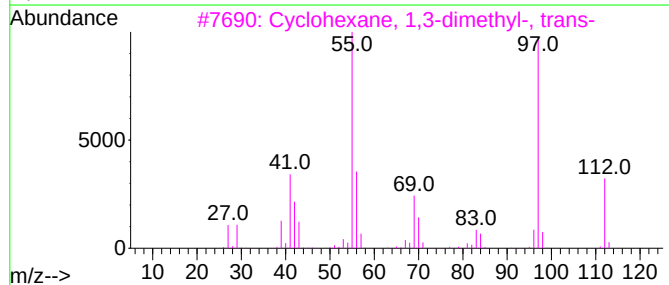
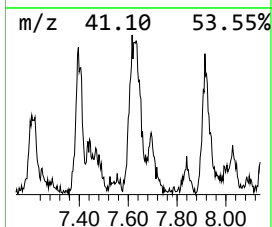
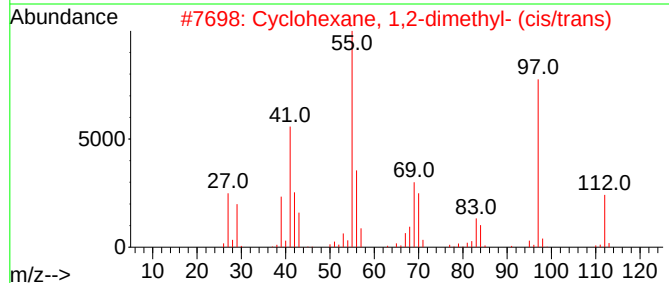
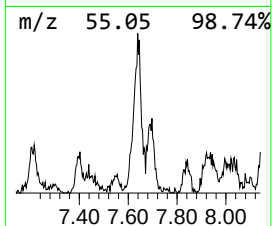
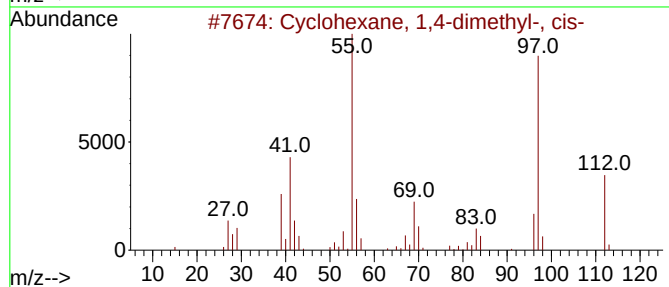
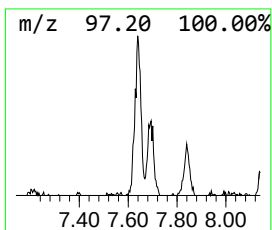
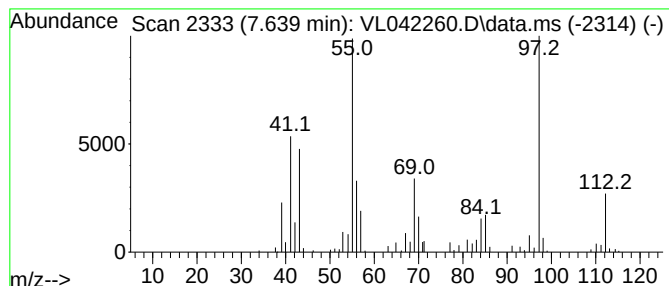
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 5 Cyclohexane, 1,4-dimethyl-,... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.639	1.28 ppbv	186265	Chlorobenzene-d5	8.898

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	87
2			Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	80
3			Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	80
4			Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	80
5			Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	80



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042260.D
Acq On : 08 Apr 2025 13:07
Operator : SY/MD
Sample : Q1728-06 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025

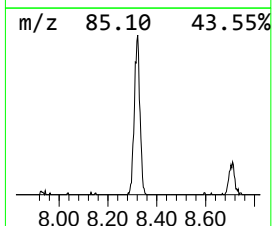
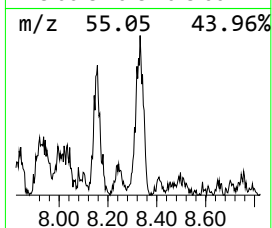
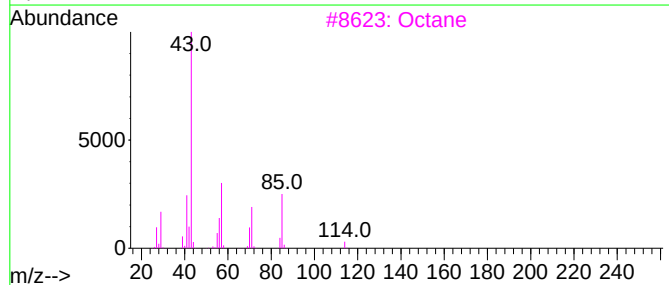
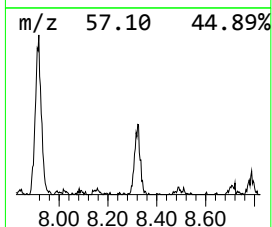
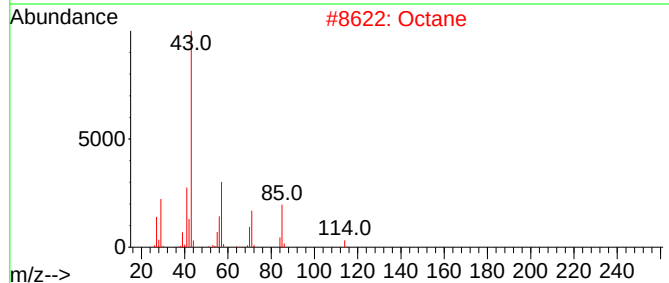
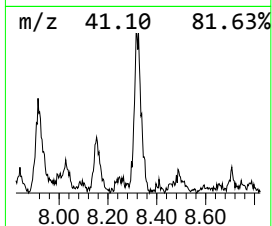
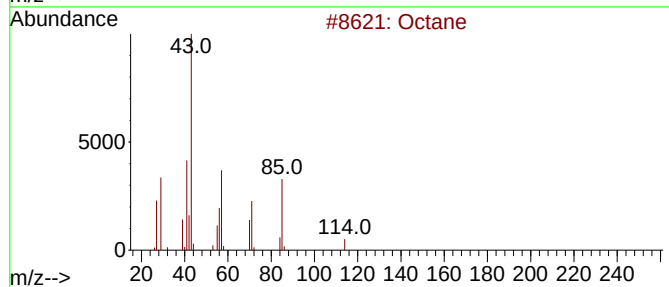
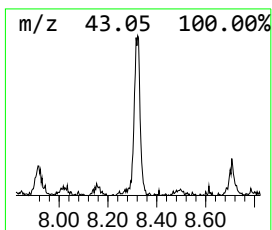
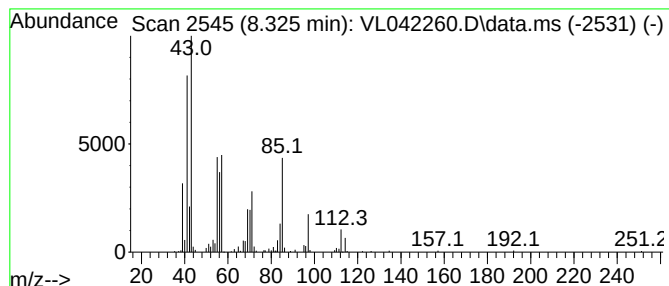
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 6 Octane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.325	1.13 ppbv	164434	Chlorobenzene-d5	8.898

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane			114	C8H18	000111-65-9	83
2	Octane			114	C8H18	000111-65-9	80
3	Octane			114	C8H18	000111-65-9	80
4	Octane			114	C8H18	000111-65-9	59
5	Heptane, 2,4-dimethyl-			128	C9H20	002213-23-2	53



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042260.D
Acq On : 08 Apr 2025 13:07
Operator : SY/MD
Sample : Q1728-06 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025

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...	1.606	2.3	ppbv	134640	1	2.797	589466	10.0
Hexane, 2-methyl-	4.072	1.0	ppbv	118880	2	3.975	1167750	10.0
Cyclohexane, me...	5.694	2.6	ppbv	299039	2	3.975	1167750	10.0
Cyclohexane, 1,...	7.639	1.3	ppbv	186265	3	8.898	1457350	10.0
Octane	8.325	1.1	ppbv	164434	3	8.898	1457350	10.0

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/02/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B2-5-04022025DL	SDG No.:	Q1728
Lab Sample ID:	Q1728-06DL	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
VL042261.D	40		04/08/25 13:52	VL040825

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	5.90	24.2	JD	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	410	974	D	22.8	47.5	ug/m3
75-15-0	Carbon Disulfide	20.1	62.6	D	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	12.9	44.8	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	25.1	74.0	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	10.9	50.9	JD	18.7	93.4	ug/m3
71-43-2	Benzene	12.6	40.3	JD	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	49.1	185	D	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:	04/02/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B2-5-04022025DL	SDG No.:	Q1728
Lab Sample ID:	Q1728-06DL	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
VL042261.D	40		04/08/25 13:52	VL040825

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	6.00	26.1	JD	20.9	86.9	ug/m3
179601-23-1	m/p-Xylene	15.7	68.2	JD	36.5	174	ug/m3
95-47-6	o-Xylene	6.70	29.1	JD	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	JD	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	9.20			70 (65) - 130 (135)	92%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	158000		2.803			
540-36-3	1,4-Difluorobenzene	439000		3.981			
3114-55-4	Chlorobenzene-d5	392000		8.904			

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/02/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B2-5-04022025DL	SDG No.:	Q1728
Lab Sample ID:	Q1728-06DL	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
VL042261.D	40		04/08/25 13:52	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 : VL042261.D
 Acq On : 08 Apr 2025 13:52
 Operator : SY/MD
 Sample : Q1728-06DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-5-04022025DL

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
 Supervised By :Semsettin Yesilyurt 04/10/2025

Quant Time: Apr 09 01:55:11 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	158005	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	439373	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	391568	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	295748	9.197	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.000%
Target Compounds						
					Qvalue	
9) Propene	1.489	41	4186	0.383	ppbv	91
10) Heptane	5.014	43	4293m	0.148	ppbv	
13) Ethanol	1.729	45	1531	1.483	ppbv	98
15) Acetone	1.845	43	225134	10.188	ppbv	96
20) Methylene Chloride	2.072	84	2648	0.322	ppbv #	88
26) Hexane	2.842	57	2402m	0.108	ppbv	
27) Carbon Disulfide	2.159	76	11933	0.502	ppbv #	40
30) Cyclohexane	3.878	84	3362m	0.175	ppbv	
34) 2-Butanone	2.577	43	19969	0.627	ppbv	98
36) Benzene	3.677	78	13713	0.315	ppbv	98
44) 2,2,4-Trimethylpentane	4.668	57	20025	0.272	ppbv #	79
53) Toluene	6.962	91	63357	1.227	ppbv	98
58) Ethyl Benzene	9.380	91	10341	0.149	ppbv #	88
59) m/p-Xylene	9.552	91	21814m	0.393	ppbv	
60) o-Xylene	9.982	91	9278	0.167	ppbv	92
71) 2-Chlorotoluene	10.918	91	7066	0.109	ppbv	98

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

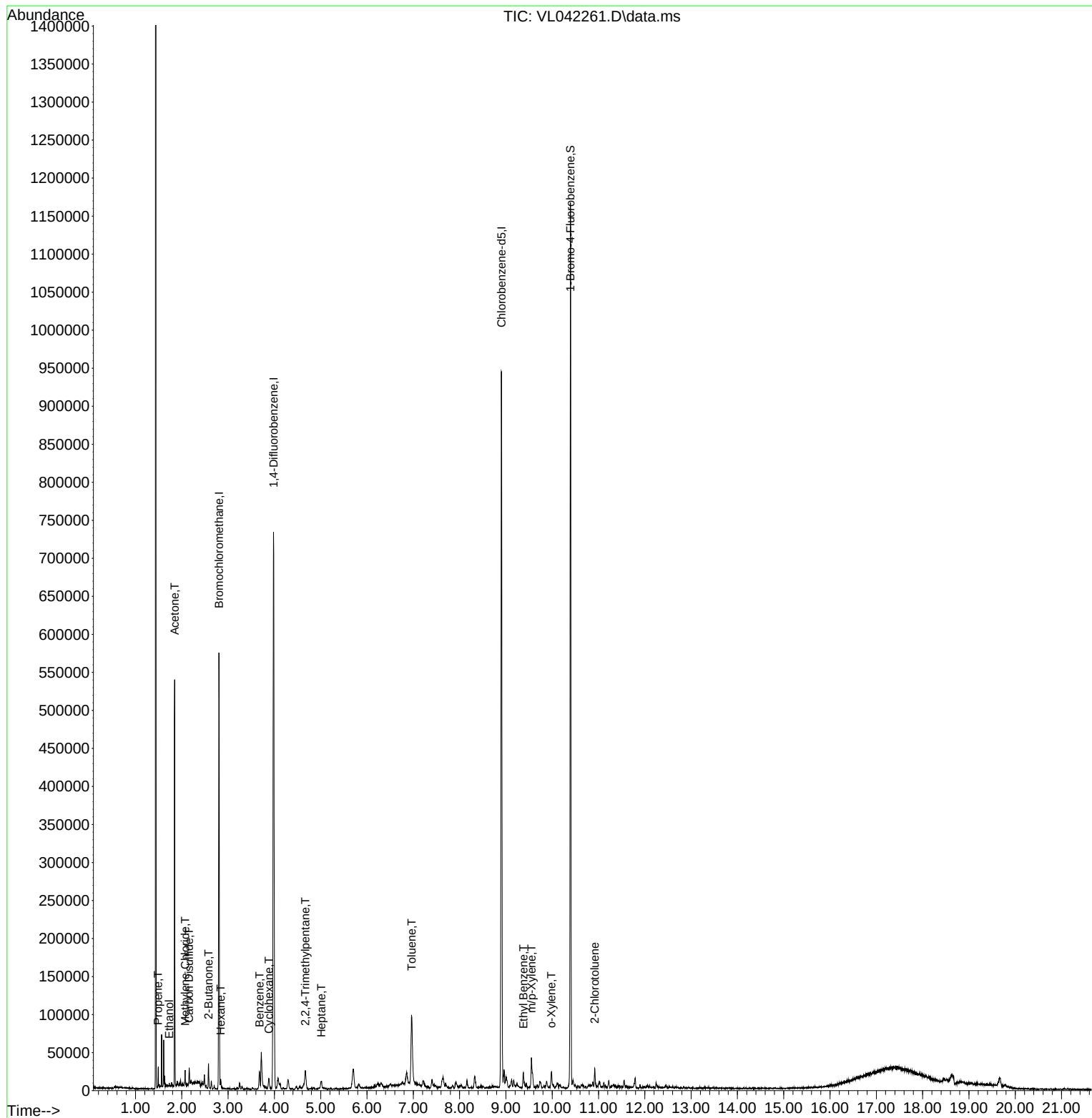
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042261.D
Acq On : 08 Apr 2025 13:52
Operator : SY/MD
Sample : Q1728-06DL 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

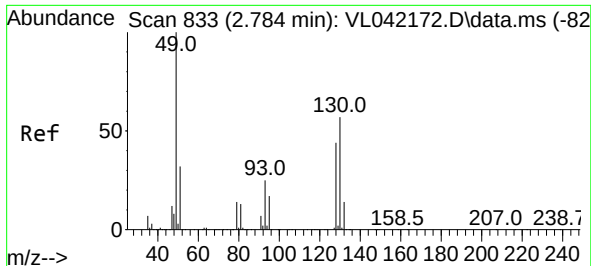
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025DL

Quant Time: Apr 09 01:55:11 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

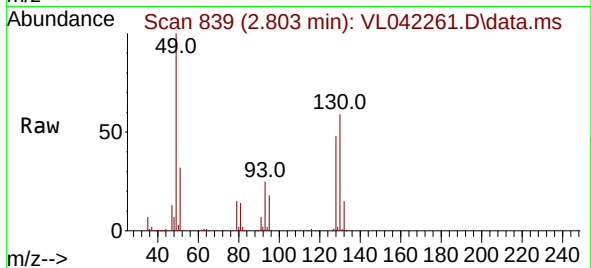
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

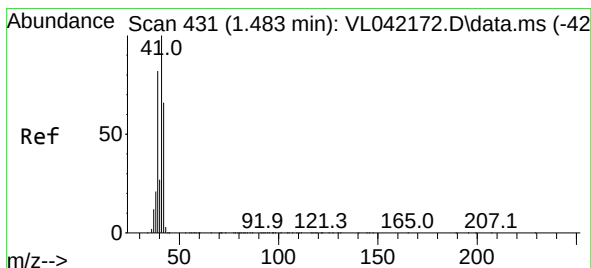
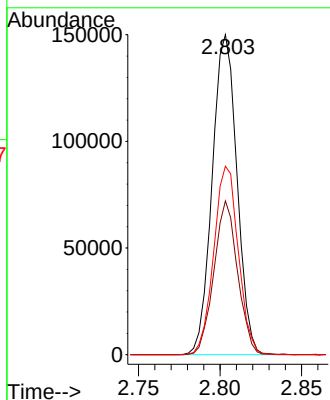
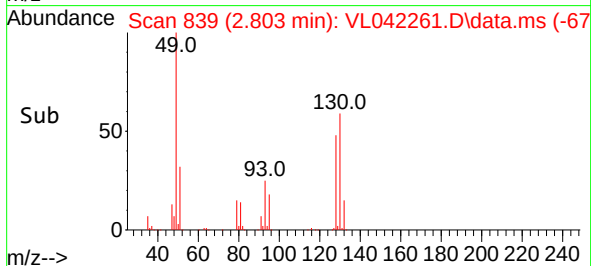
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025DL



Tgt Ion: 49 Resp: 15800
Ion Ratio Lower Upper
49 100
128 46.0 22.9 68.5
130 58.5 28.8 86.4

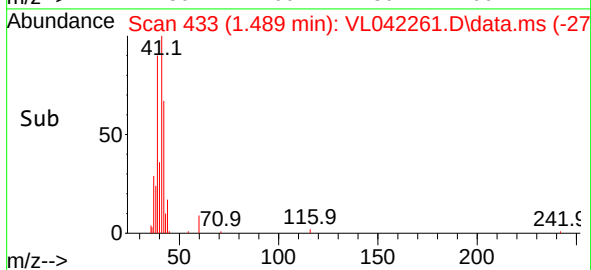
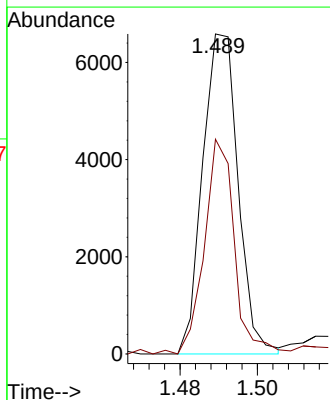
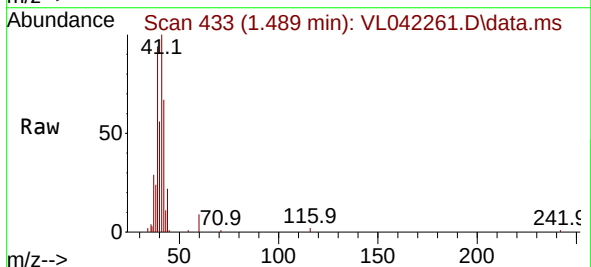
Manual Integrations
APPROVED

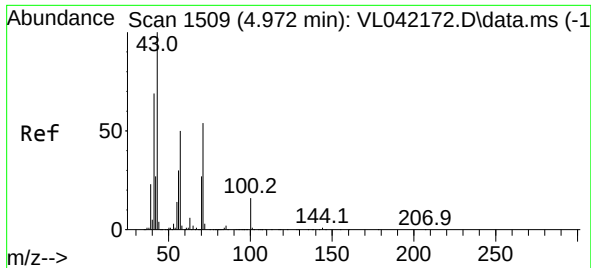
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#9
Propene
Concen: 0.383 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

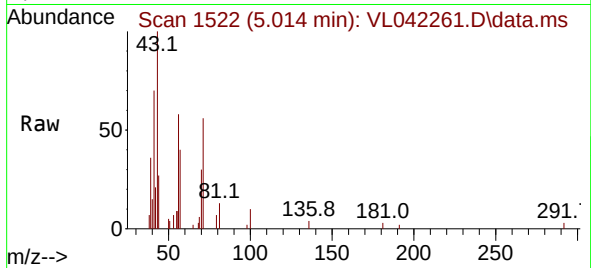
Tgt Ion: 41 Resp: 4186
Ion Ratio Lower Upper
41 100
42 62.2 55.4 83.2





#10
Heptane
Concen: 0.148 ppbv m
RT: 5.014 min Scan# 11
Delta R.T. 0.042 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

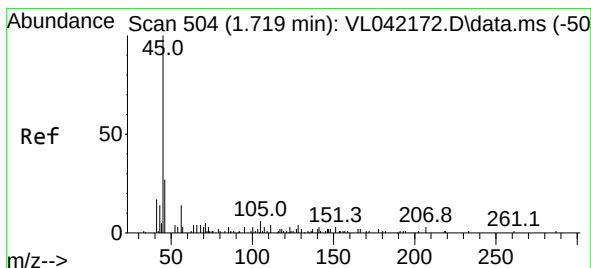
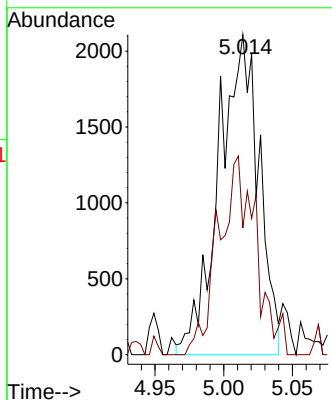
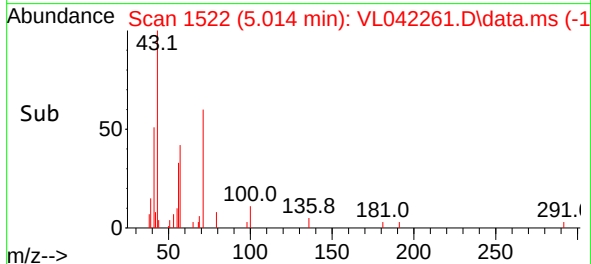
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025DL



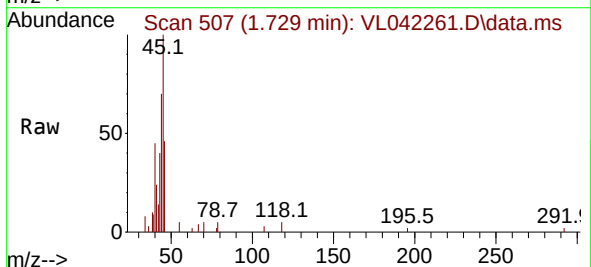
Tgt Ion: 43 Resp: 429
Ion Ratio Lower Upper
43 100
57 57.3 39.4 59.2

Manual Integrations
APPROVED

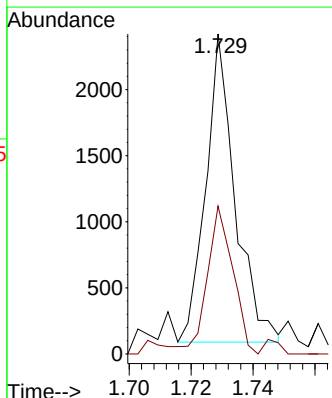
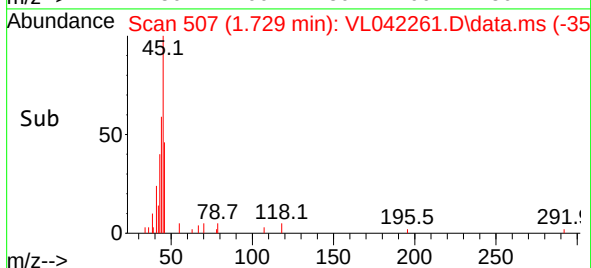
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

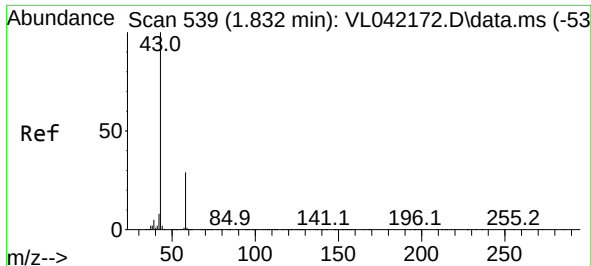


#13
Ethanol
Concen: 1.483 ppbv
RT: 1.729 min Scan# 507
Delta R.T. 0.010 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52



Tgt Ion: 45 Resp: 1531
Ion Ratio Lower Upper
45 100
46 49.1 20.2 80.8





#15

Acetone

Concen: 10.188 ppbv

RT: 1.845 min Scan# 54

Delta R.T. 0.013 min

Lab File: VL042261.D

Acq: 08 Apr 2025 13:52

Instrument :

MSVOA_L

ClientSampleId :

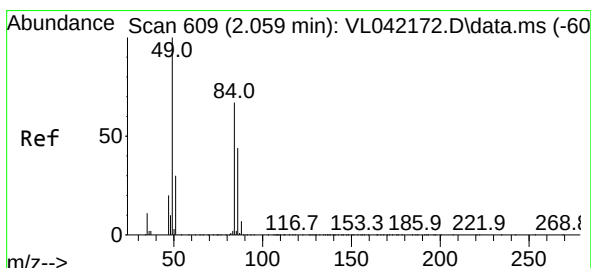
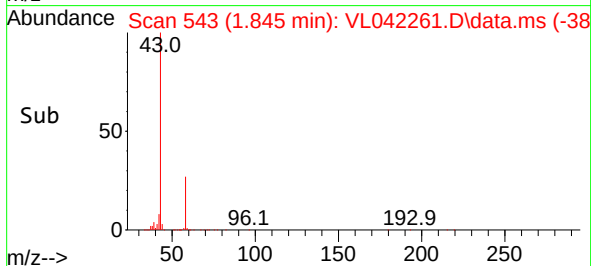
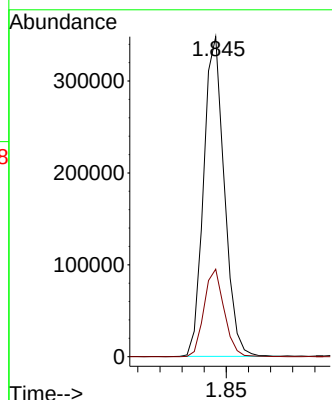
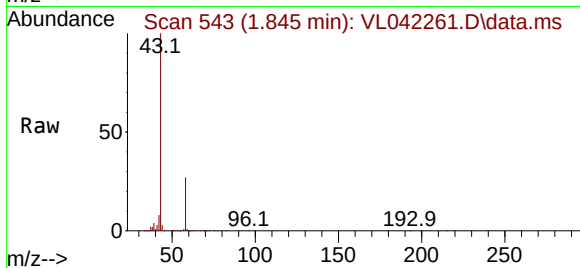
SSSG-B2-5-04022025DL

Tgt Ion: 43 Resp: 225134
 Ion Ratio Lower Upper
 43 100
 58 26.7 23.2 34.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
 Supervised By :Semsettin Yesilyurt 04/10/2025



#20

Methylene Chloride

Concen: 0.322 ppbv

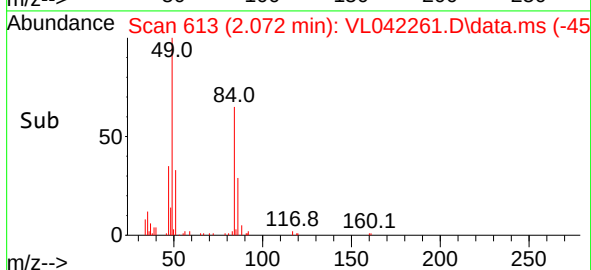
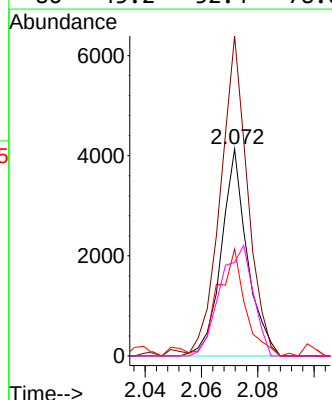
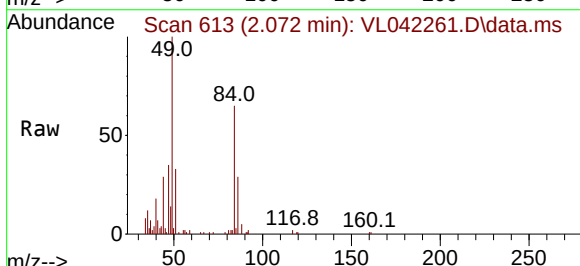
RT: 2.072 min Scan# 613

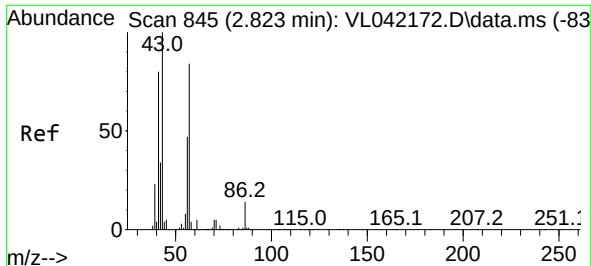
Delta R.T. 0.013 min

Lab File: VL042261.D

Acq: 08 Apr 2025 13:52

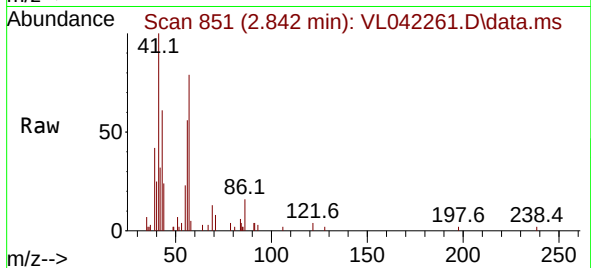
Tgt Ion: 84 Resp: 2648
 Ion Ratio Lower Upper
 84 100
 49 158.8 120.2 180.4
 51 51.7 37.4 56.0
 86 45.2 52.4 78.6#





#26
Hexane
Concen: 0.108 ppbv m
RT: 2.842 min Scan# 845
Delta R.T. 0.019 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

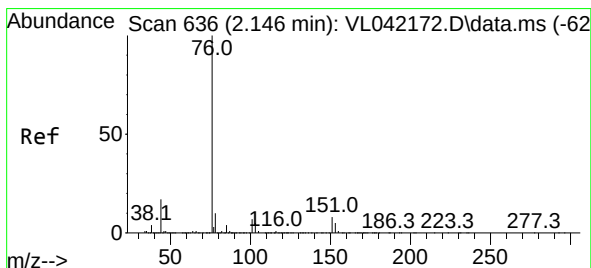
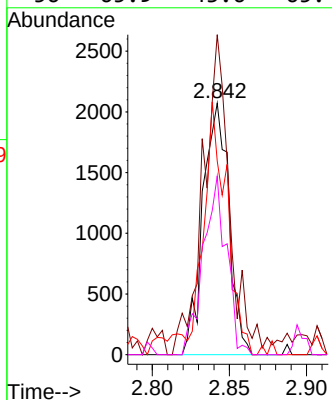
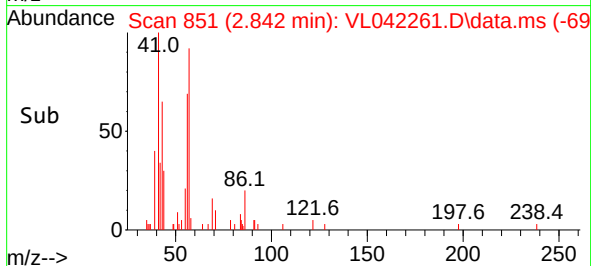
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025DL



Tgt Ion: 57 Resp: 240
Ion Ratio Lower Upper
57 100
41 157.3 76.6 114.8
43 99.0 207.8 311.8
56 65.9 43.6 65.4#

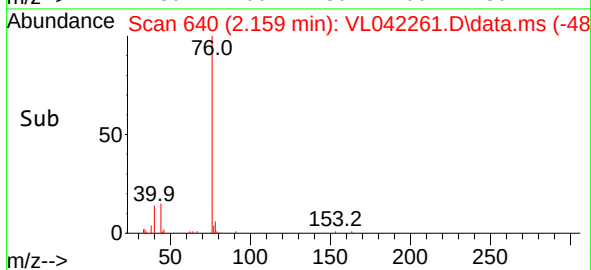
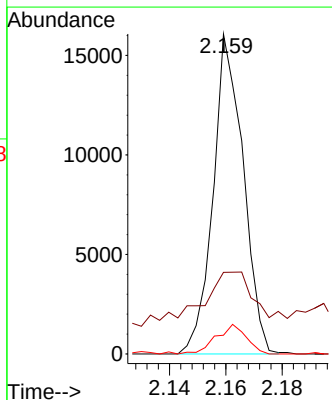
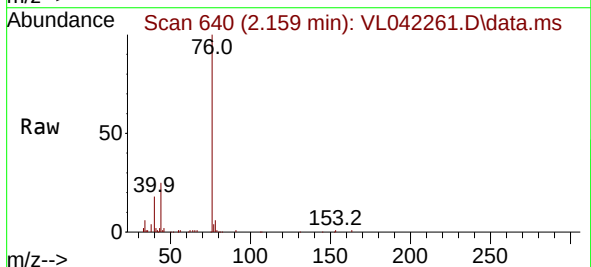
Manual Integrations
APPROVED

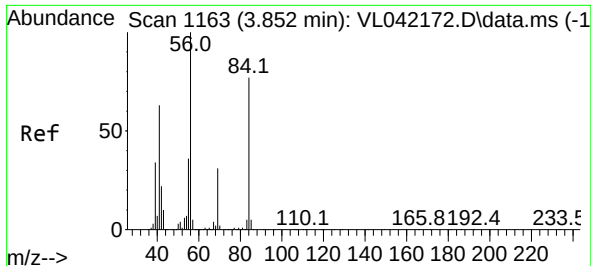
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#27
Carbon Disulfide
Concen: 0.502 ppbv
RT: 2.159 min Scan# 640
Delta R.T. 0.013 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

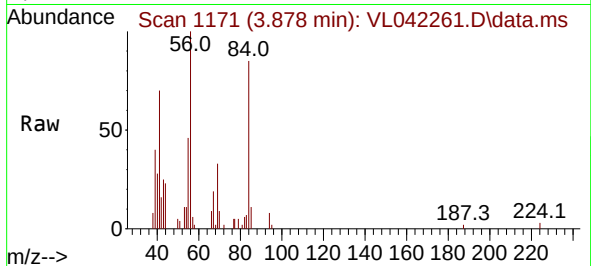
Tgt Ion: 76 Resp: 11933
Ion Ratio Lower Upper
76 100
44 60.6 14.7 22.1#
78 10.1 9.3 13.9





#30
Cyclohexane
Concen: 0.175 ppbv m
RT: 3.878 min Scan# 1163
Delta R.T. 0.026 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

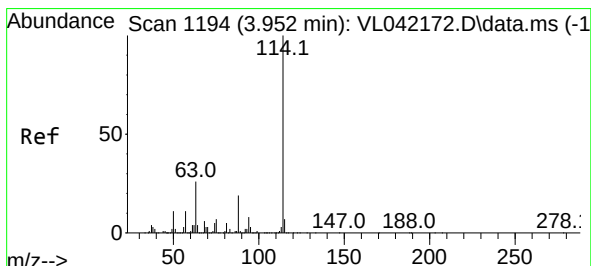
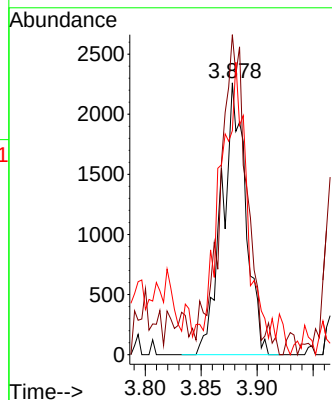
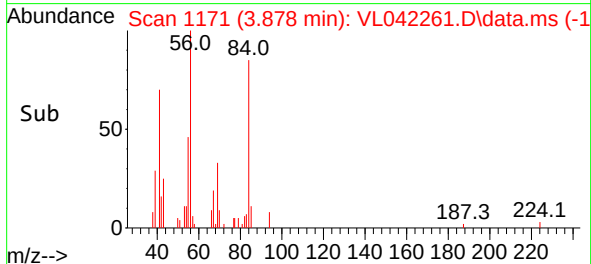
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025DL



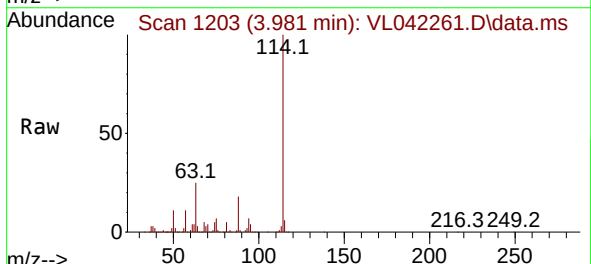
Tgt Ion: 84 Resp: 3362
Ion Ratio Lower Upper
84 100
56 132.9 102.8 154.2
41 124.5 66.5 99.7

Manual Integrations
APPROVED

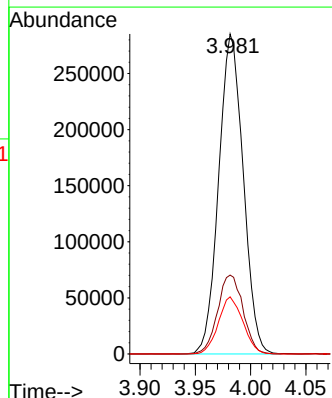
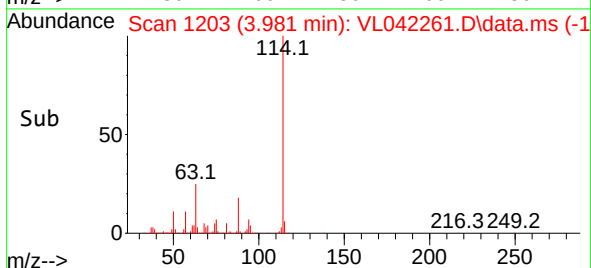
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

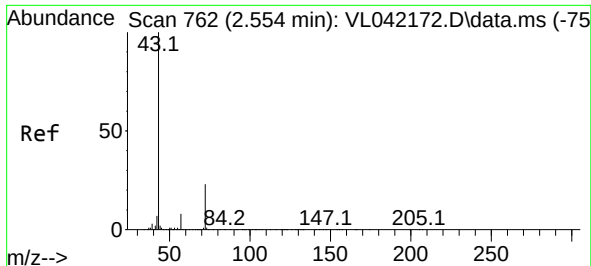


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.981 min Scan# 1203
Delta R.T. 0.029 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52



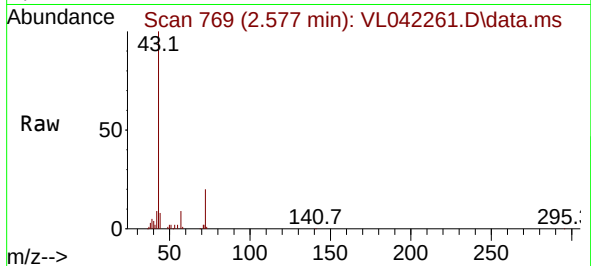
Tgt Ion:114 Resp: 439373
Ion Ratio Lower Upper
114 100
63 25.5 20.7 31.1
88 17.8 15.0 22.4





#34
2-Butanone
Concen: 0.627 ppbv
RT: 2.577 min Scan# 710
Delta R.T. 0.023 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

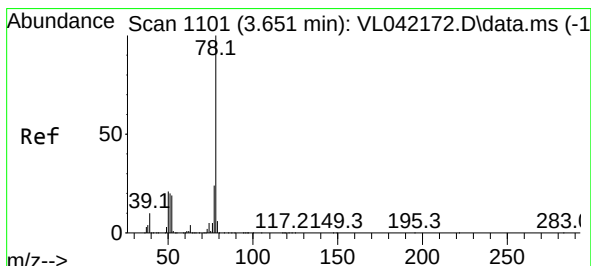
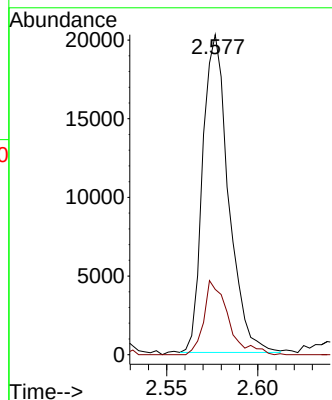
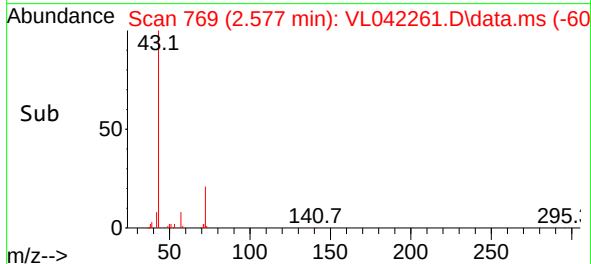
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025DL



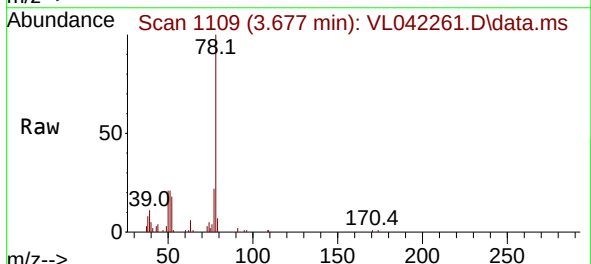
Tgt Ion: 43 Resp: 1996
Ion Ratio Lower Upper
43 100
72 21.9 18.2 27.2

Manual Integrations
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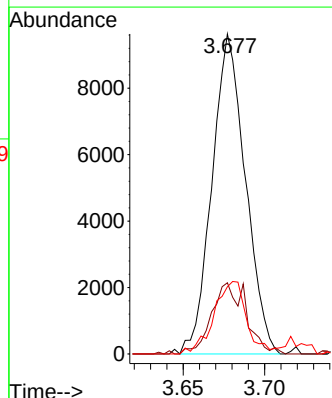
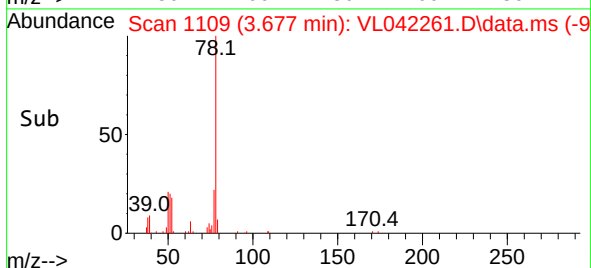
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

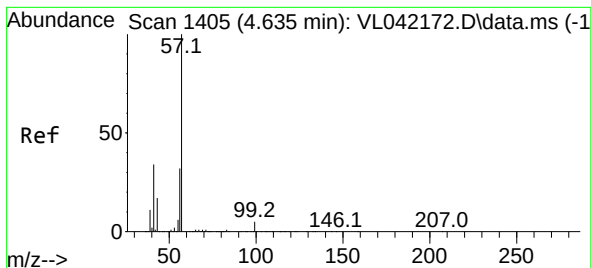


#36
Benzene
Concen: 0.315 ppbv
RT: 3.677 min Scan# 1109
Delta R.T. 0.026 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52



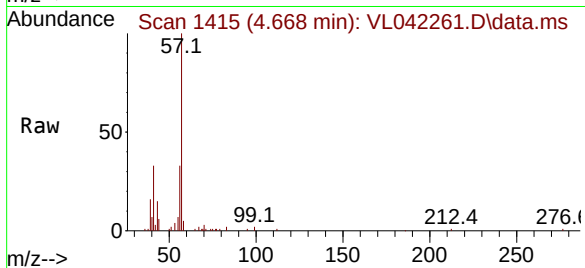
Tgt Ion: 78 Resp: 13713
Ion Ratio Lower Upper
78 100
77 22.3 19.1 28.7
50 21.0 16.6 24.8





#44
2,2,4-Trimethylpentane
Concen: 0.272 ppbv
RT: 4.668 min Scan# 1405
Delta R.T. 0.032 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

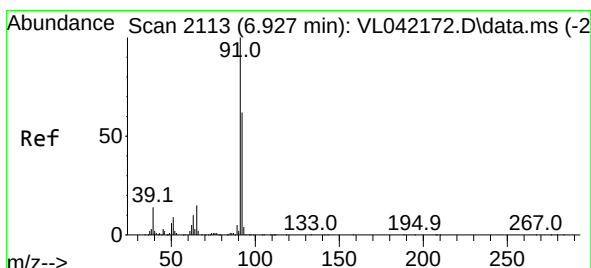
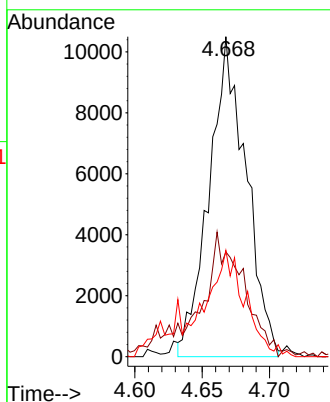
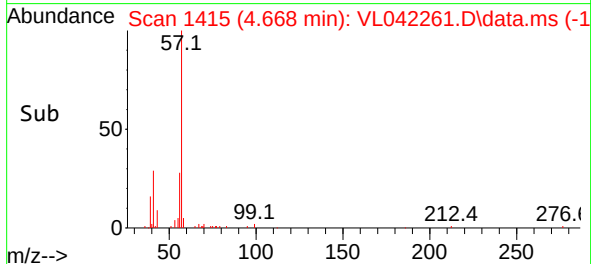
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025DL



Tgt Ion: 57 Resp: 20025
Ion Ratio Lower Upper
57 100
41 46.0 26.8 40.2
56 43.0 25.6 38.4

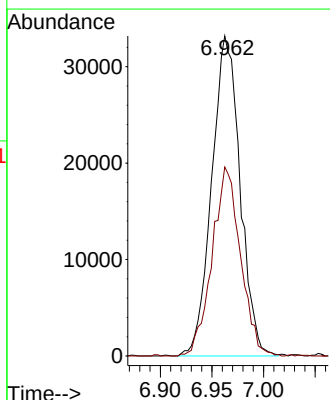
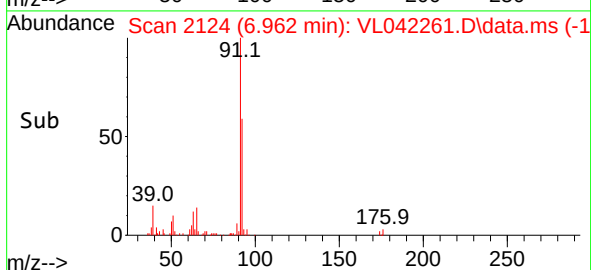
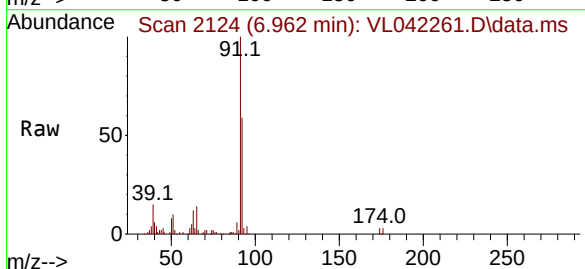
Manual Integrations
APPROVED

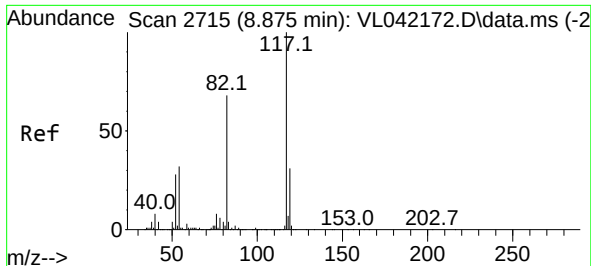
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#53
Toluene
Concen: 1.227 ppbv
RT: 6.962 min Scan# 2124
Delta R.T. 0.035 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

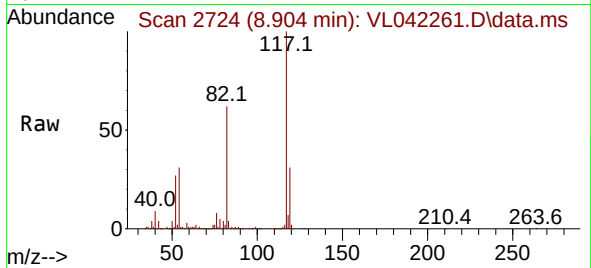
Tgt Ion: 91 Resp: 63357
Ion Ratio Lower Upper
91 100
92 59.1 48.4 72.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 21
Delta R.T. 0.029 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

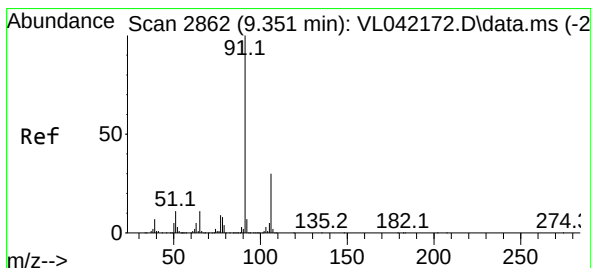
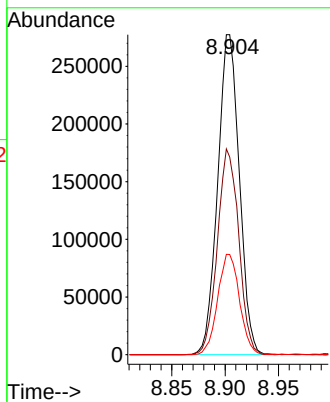
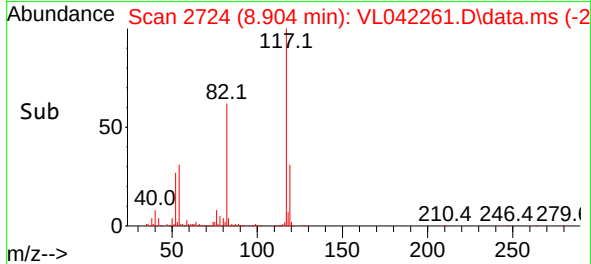
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025DL



Tgt Ion:117 Resp: 391568
Ion Ratio Lower Upper
117 100
82 63.5 55.8 83.6
119 31.6 25.5 38.3

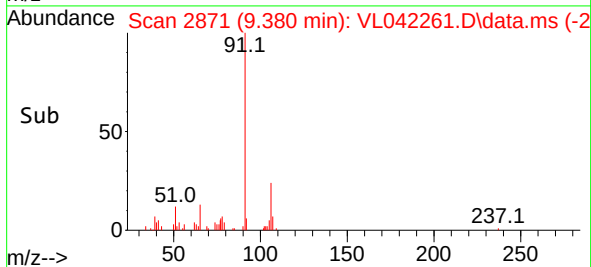
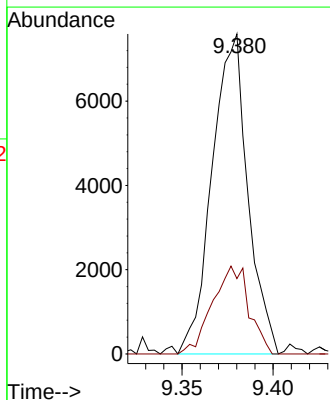
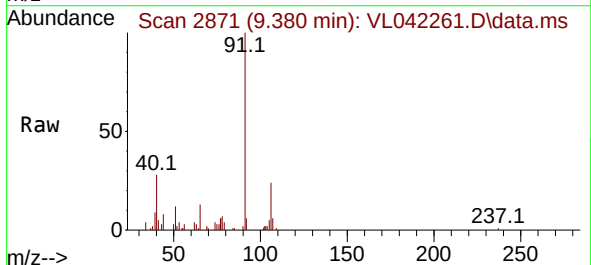
Manual Integrations
APPROVED

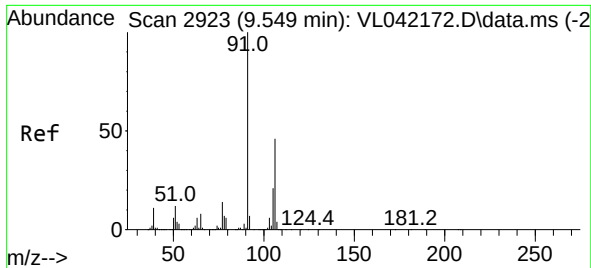
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#58
Ethyl Benzene
Concen: 0.149 ppbv
RT: 9.380 min Scan# 2871
Delta R.T. 0.029 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

Tgt Ion: 91 Resp: 10341
Ion Ratio Lower Upper
91 100
106 23.6 24.2 36.2#





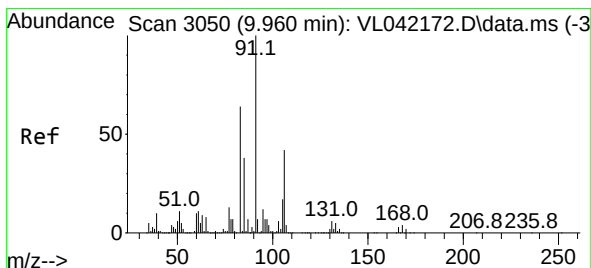
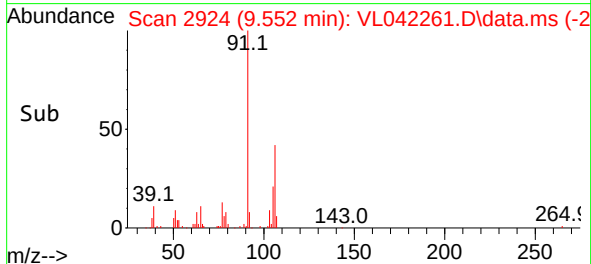
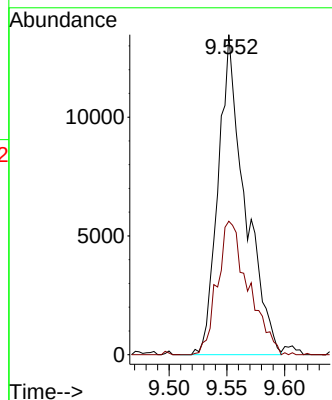
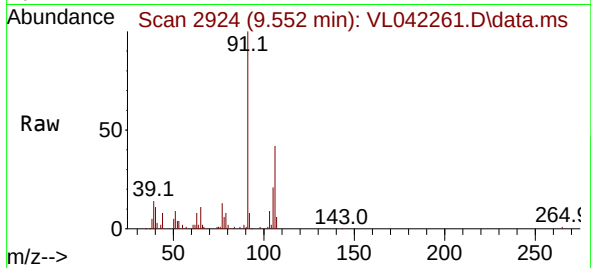
#59
m/p-Xylene
Concen: 0.393 ppbv m
RT: 9.552 min Scan# 2924
Delta R.T. 0.003 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025DL

Tgt Ion: 91 Resp: 21814
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6

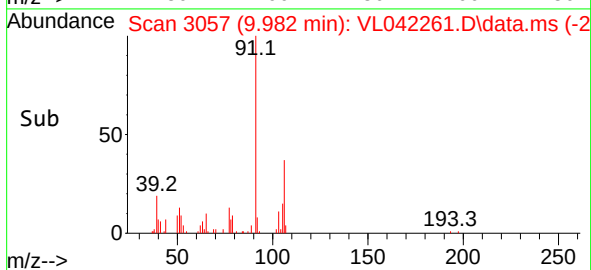
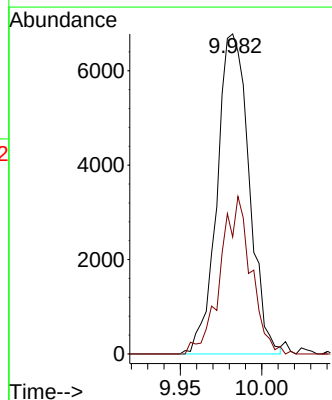
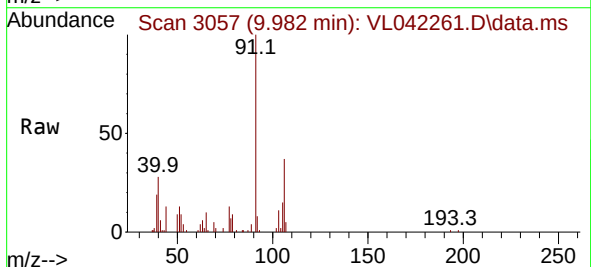
Manual Integrations
APPROVED

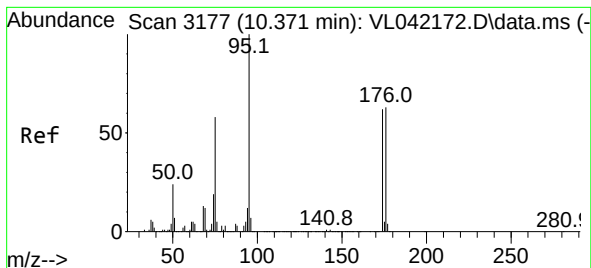
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#60
o-Xylene
Concen: 0.167 ppbv
RT: 9.982 min Scan# 3057
Delta R.T. 0.023 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

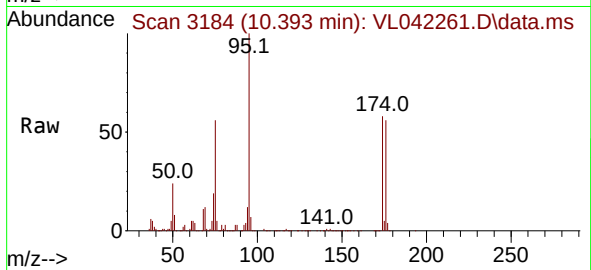
Tgt Ion: 91 Resp: 9278
Ion Ratio Lower Upper
91 100
106 47.0 20.8 62.5





#68
1-Bromo-4-Fluorobenzene
Concen: 9.197 ppbv
RT: 10.393 min Scan# 3177
Delta R.T. 0.023 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

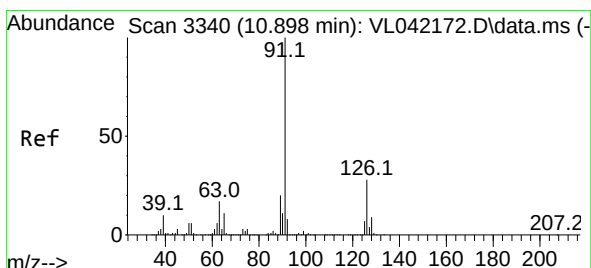
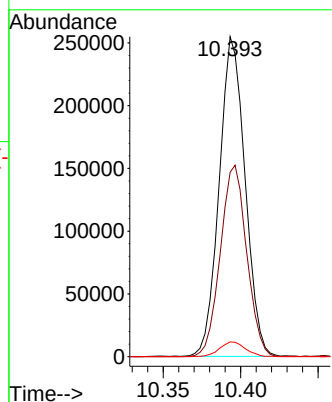
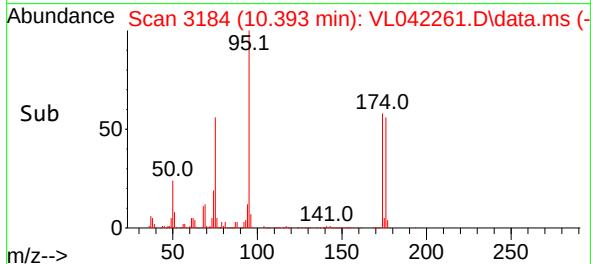
Instrument : MSVOA_L
ClientSampleId : SSSG-B2-5-04022025DL



Tgt Ion: 95 Resp: 295748
Ion Ratio Lower Upper
95 100
174 61.4 50.6 76.0
175 4.7 3.8 5.6

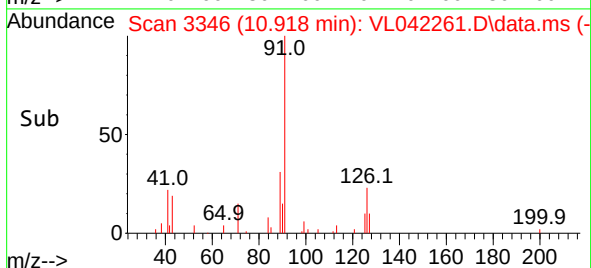
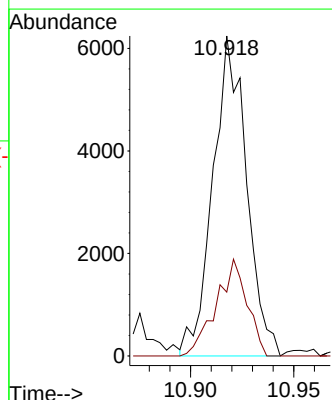
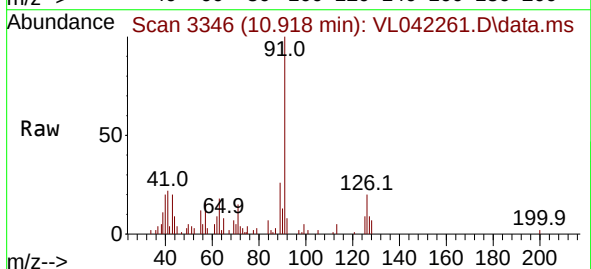
Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#71
2-Chlorotoluene
Concen: 0.109 ppbv
RT: 10.918 min Scan# 3346
Delta R.T. 0.019 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

Tgt Ion: 91 Resp: 7066
Ion Ratio Lower Upper
91 100
126 27.9 11.6 46.4



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-B1-1-04012025	SDG No.:	Q1728
Lab Sample ID:	Q1728-07	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
VL042272.D	4		04/08/25 20:30	VL040825

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	0.39	0.81	U	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	0.76	2.30	U	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	3.70	8.79		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	1.40	4.86	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	0.48	1.42	U	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	1.10	5.37	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	3.10	11.7		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:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B1-1-04012025	SDG No.:	Q1728
Lab Sample ID:	Q1728-07	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
VL042272.D	4		04/08/25 20:30	VL040825

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	0.060	0.41	U	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	1.10	4.78	J	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	0.58	2.04	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	9.60			70 (65) - 130 (135)	96%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	161000		2.8			
540-36-3	1,4-Difluorobenzene	399000		3.975			
3114-55-4	Chlorobenzene-d5	348000		8.894			
TENTITIVE IDENTIFIED COMPOUNDS							
75-45-6	Chlorodifluoromethane	0.41		J		1.48	ppbv
64-17-5	Ethanol	11.5		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-B1-1-04012025	SDG No.:	Q1728
Lab Sample ID:	Q1728-07	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
VL042272.D	4		04/08/25 20:30	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 : VL042272.D
 Acq On : 08 Apr 2025 20:30
 Operator : SY/MD
 Sample : Q1728-07 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-1-04012025

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
 Supervised By :Semsettin Yesilyurt 04/10/2025

Quant Time: Apr 09 02:00:04 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	2.800	49	160928	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.975	114	398547	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.894	117	347731	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	274979	9.629	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.300%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.502	85	2800	0.118	ppbv	89
3) Chlorodifluoromethane	1.476	51	2506m	0.103	ppbv	
13) Ethanol	1.729	45	3033m	2.884	ppbv	
15) Acetone	1.842	43	20683	0.919	ppbv	94
20) Methylene Chloride	2.068	84	3032	0.362	ppbv #	87
26) Hexane	2.835	57	3283	0.146	ppbv #	41
29) Chloroform	2.861	83	9086	0.275	ppbv #	84
34) 2-Butanone	2.573	43	2976m	0.103	ppbv	
53) Toluene	6.956	91	36094	0.771	ppbv	100
59) m/p-Xylene	9.542	91	13334	0.270	ppbv	96
60) o-Xylene	9.972	91	5213m	0.105	ppbv	

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

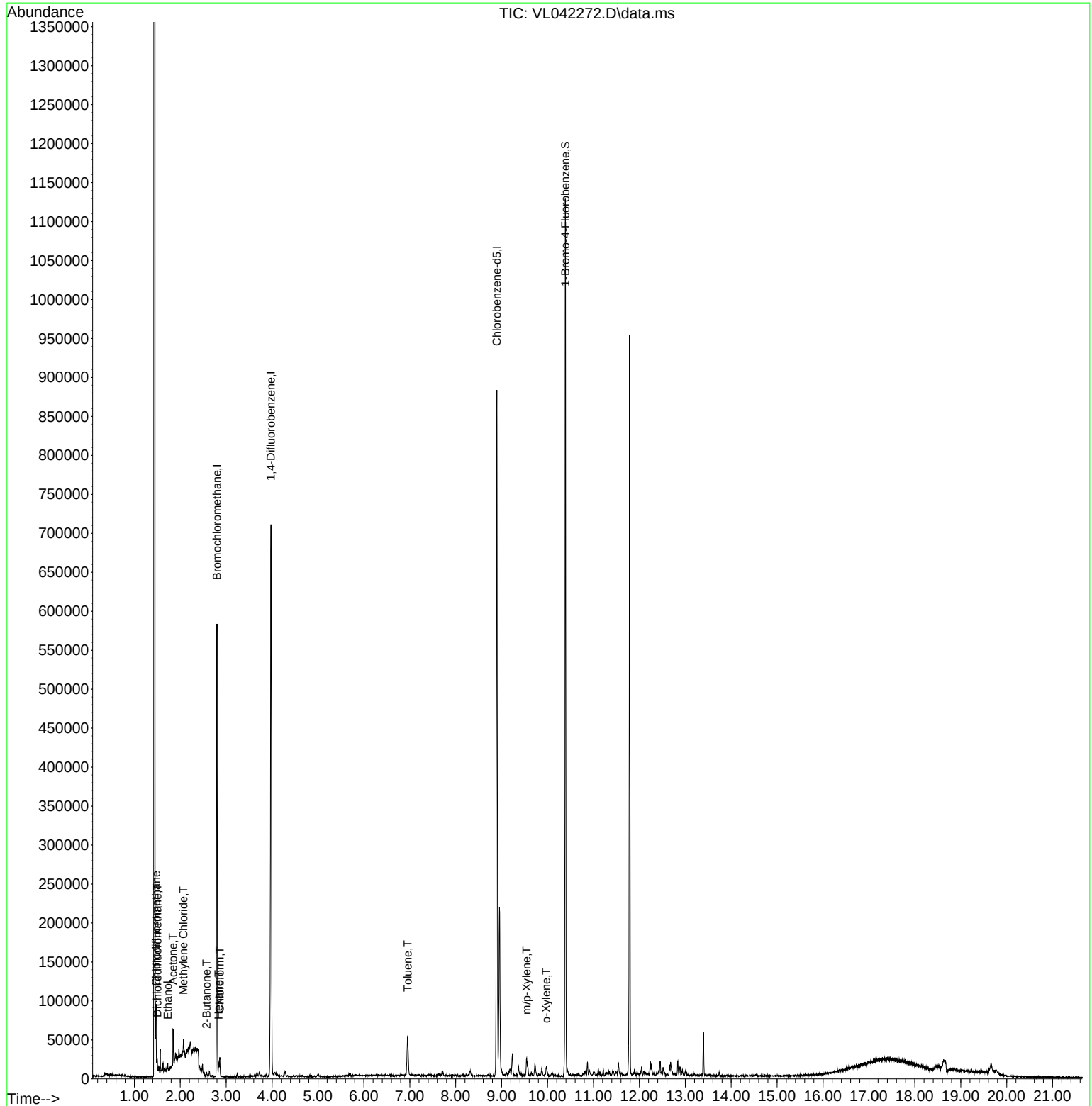
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042272.D
Acq On : 08 Apr 2025 20:30
Operator : SY/MD
Sample : Q1728-07 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

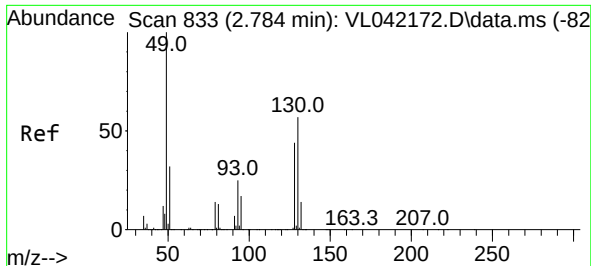
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-1-04012025

Quant Time: Apr 09 02:00:04 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

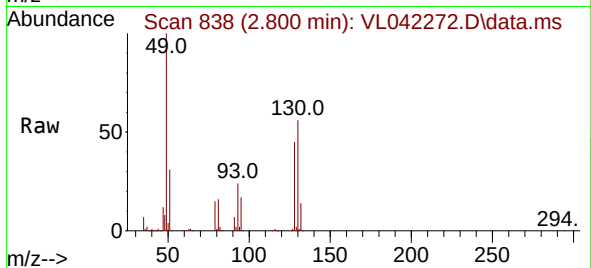
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

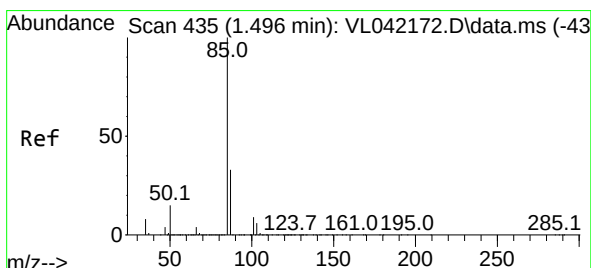
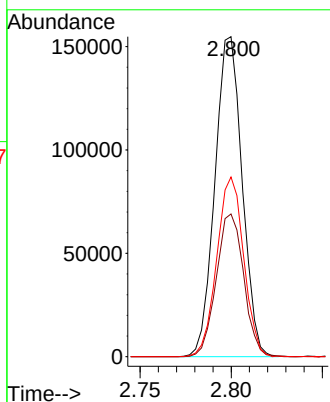
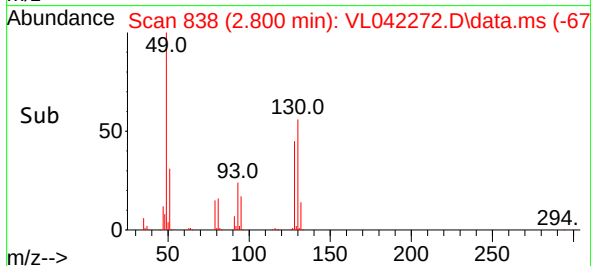
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-1-04012025



Tgt Ion: 49 Resp: 160928
Ion Ratio Lower Upper
49 100
128 44.8 22.9 68.5
130 55.4 28.8 86.4

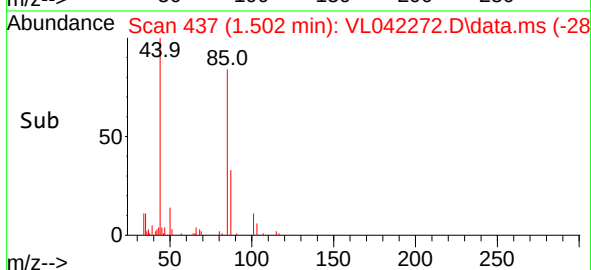
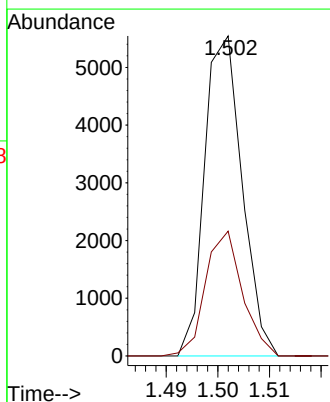
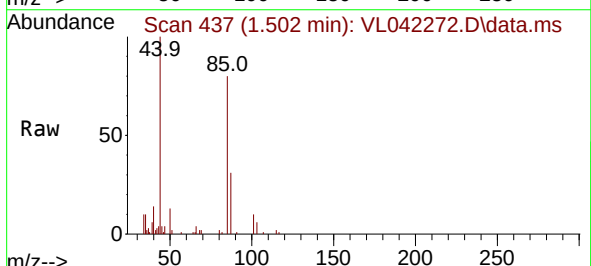
Manual Integrations
APPROVED

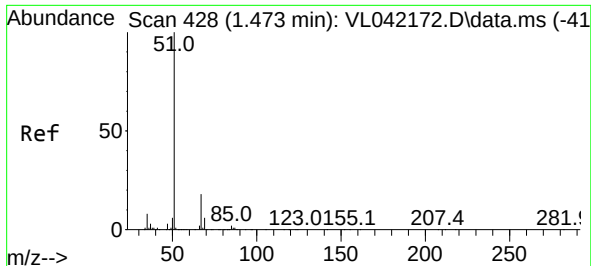
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#2
Dichlorodifluoromethane
Concen: 0.118 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

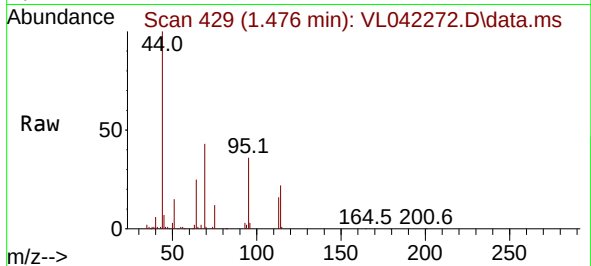
Tgt Ion: 85 Resp: 2800
Ion Ratio Lower Upper
85 100
87 39.0 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.103 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

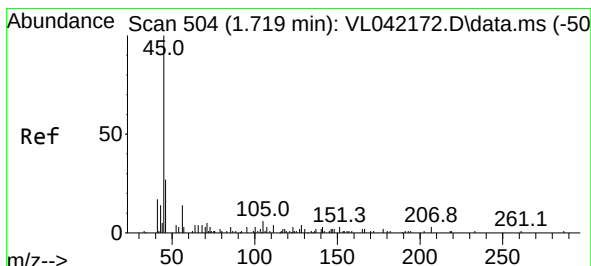
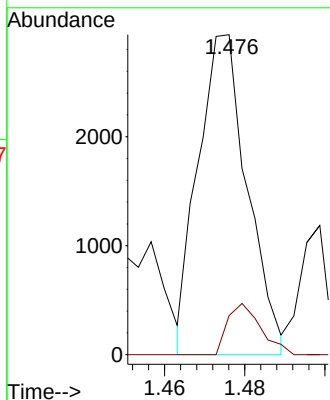
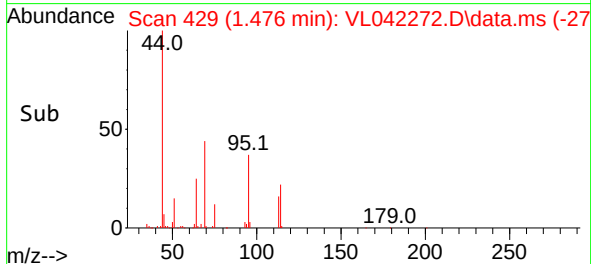
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-1-04012025



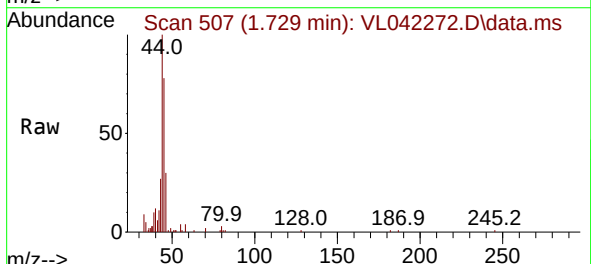
Tgt Ion: 51 Resp: 2500
Ion Ratio Lower Upper
51 100
67 4.2 15.0 22.6

Manual Integrations
APPROVED

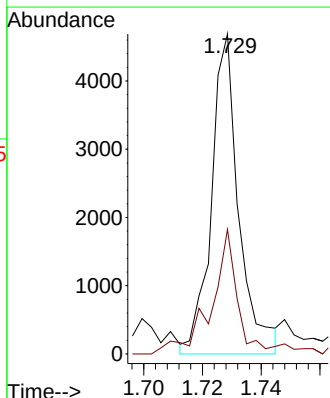
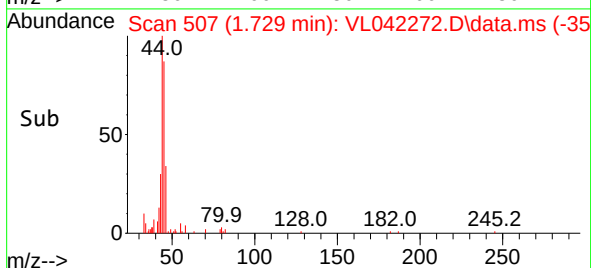
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

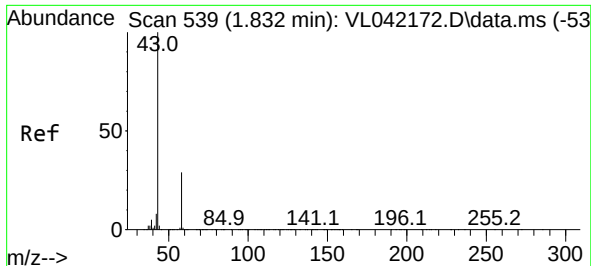


#13
Ethanol
Concen: 2.884 ppbv m
RT: 1.729 min Scan# 507
Delta R.T. 0.009 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30



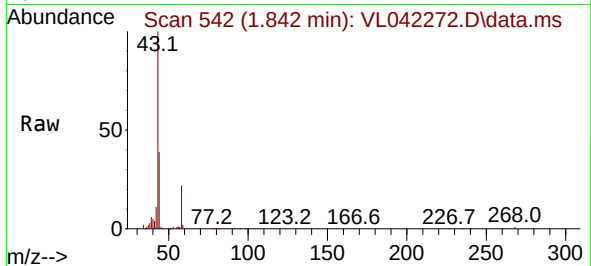
Tgt Ion: 45 Resp: 3033
Ion Ratio Lower Upper
45 100
46 8243.4 20.2 80.8#





#15
Acetone
Concen: 0.919 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.009 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

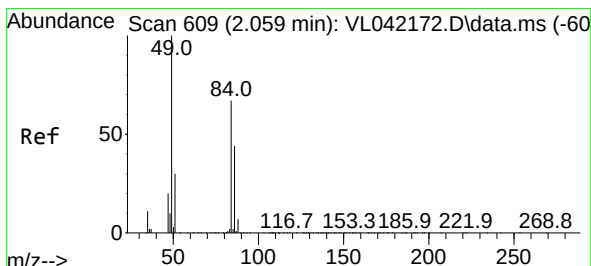
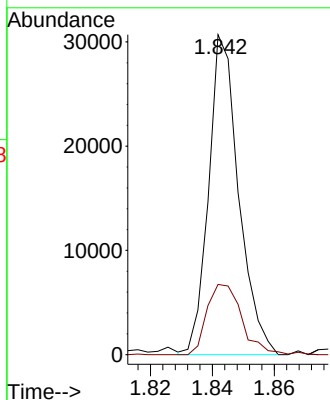
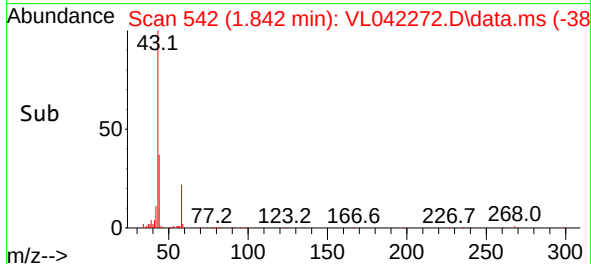
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-1-04012025



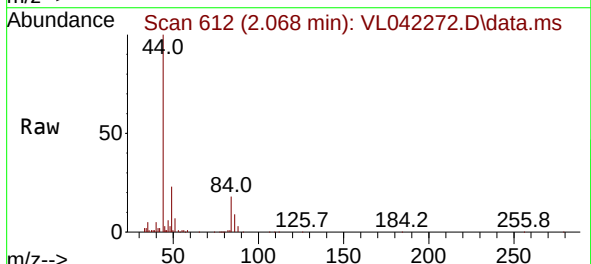
Tgt Ion: 43 Resp: 2068
Ion Ratio Lower Upper
43 100
58 25.8 23.2 34.8

Manual Integrations
APPROVED

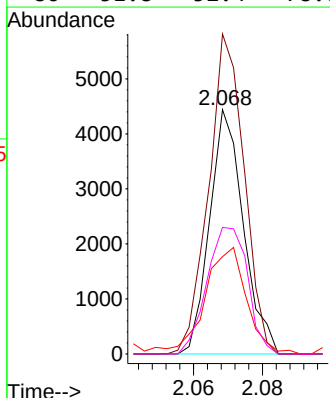
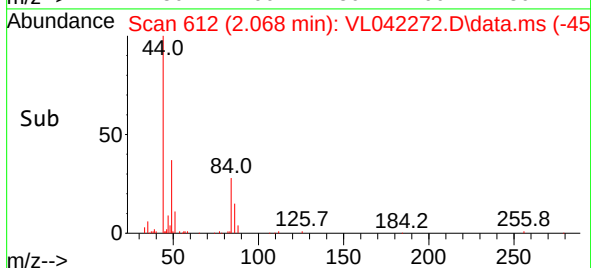
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

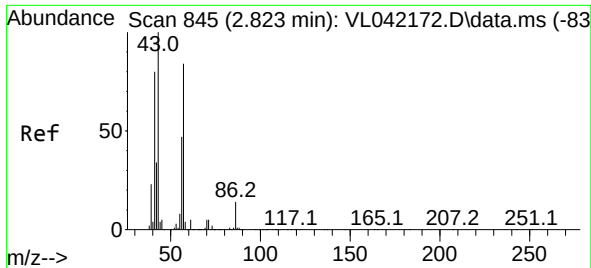


#20
Methylene Chloride
Concen: 0.362 ppbv
RT: 2.068 min Scan# 612
Delta R.T. 0.009 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30



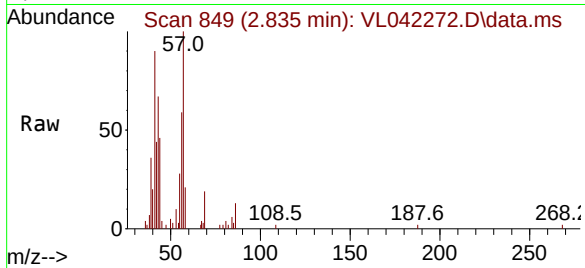
Tgt Ion: 84 Resp: 3032
Ion Ratio Lower Upper
84 100
49 135.2 120.2 180.4
51 38.6 37.4 56.0
86 51.8 52.4 78.6#





#26
Hexane
Concen: 0.146 ppbv
RT: 2.835 min Scan# 845
Delta R.T. 0.013 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

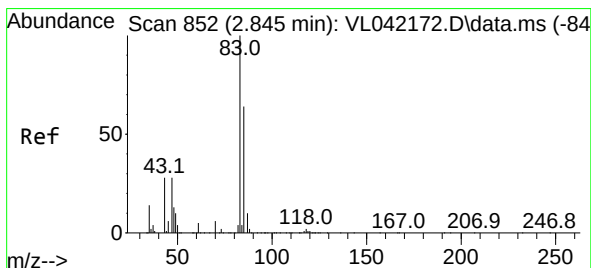
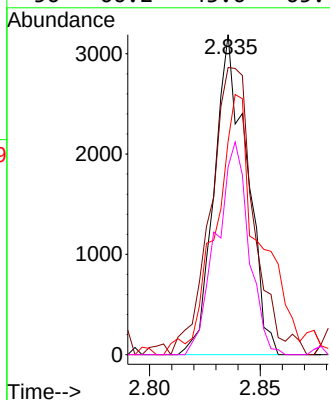
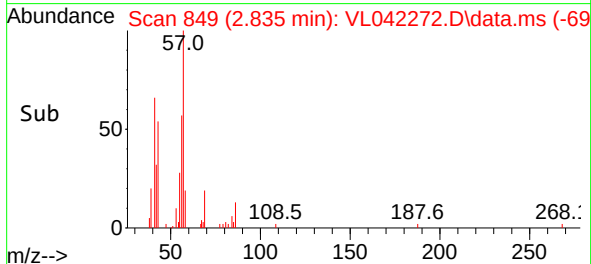
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-1-04012025



Tgt Ion: 57 Resp: 328
Ion Ratio Lower Upper
57 100
41 120.7 76.6 114.8
43 115.5 207.8 311.8
56 66.2 43.6 65.4#

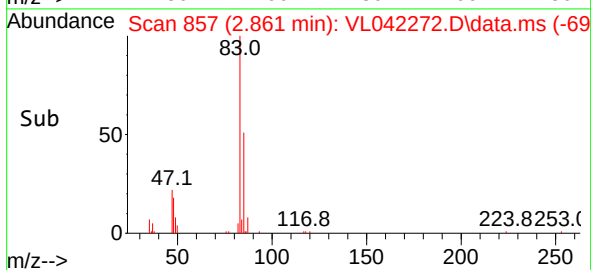
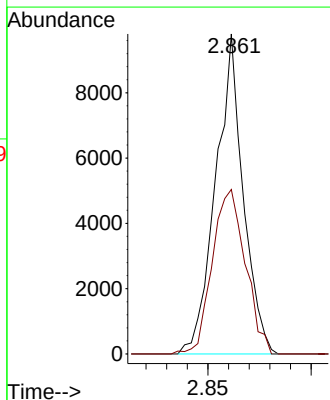
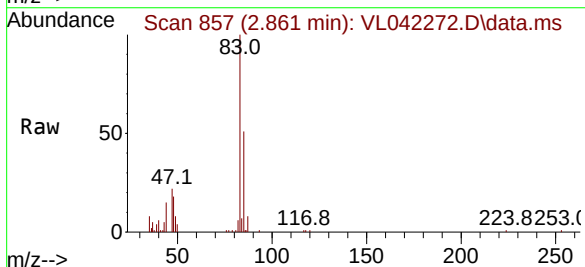
Manual Integrations
APPROVED

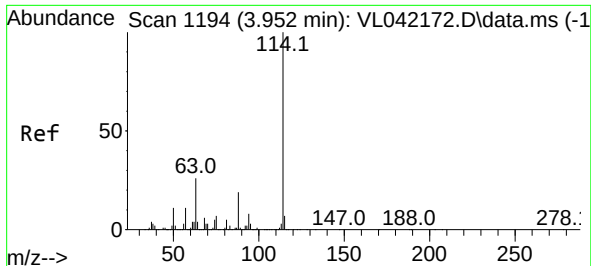
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#29
Chloroform
Concen: 0.275 ppbv
RT: 2.861 min Scan# 857
Delta R.T. 0.016 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

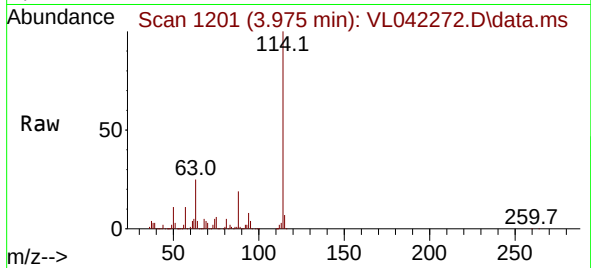
Tgt Ion: 83 Resp: 9086
Ion Ratio Lower Upper
83 100
85 51.4 51.4 77.2#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.975 min Scan# 1194
Delta R.T. 0.022 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

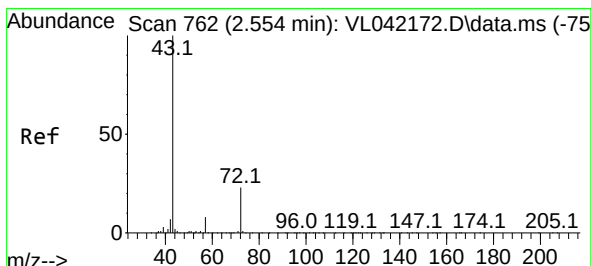
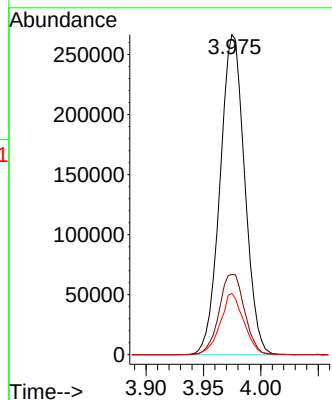
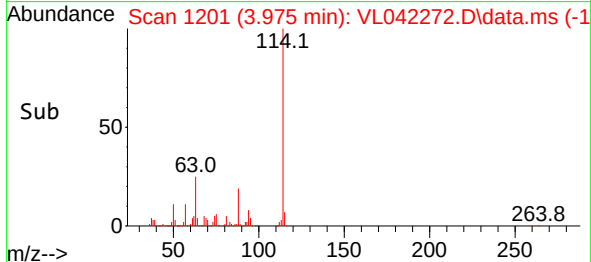
Instrument : MSVOA_L
ClientSampleId : SSSG-B1-1-04012025



Tgt Ion:114 Resp: 39854
Ion Ratio Lower Upper
114 100
63 26.0 20.7 31.1
88 18.3 15.0 22.4

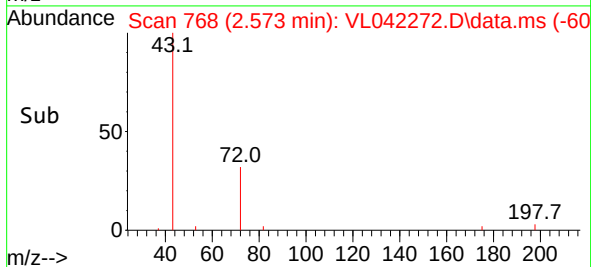
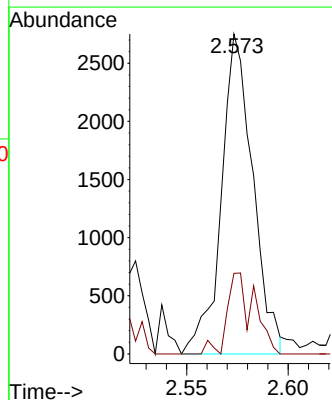
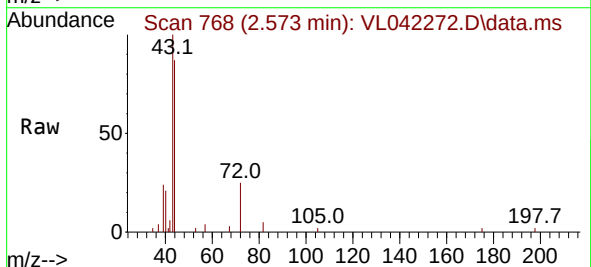
Manual Integrations
APPROVED

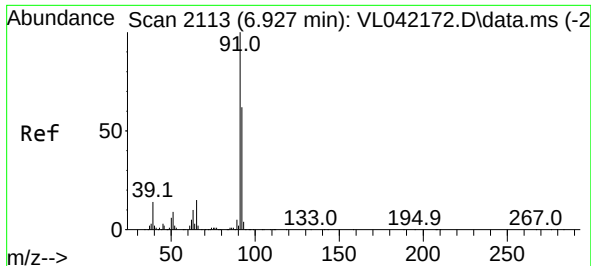
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#34
2-Butanone
Concen: 0.103 ppbv m
RT: 2.573 min Scan# 768
Delta R.T. 0.019 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

Tgt Ion: 43 Resp: 2976
Ion Ratio Lower Upper
43 100
72 21.4 18.2 27.2





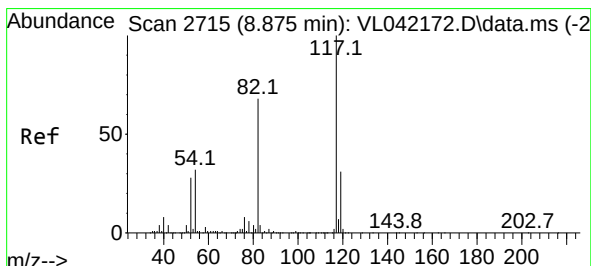
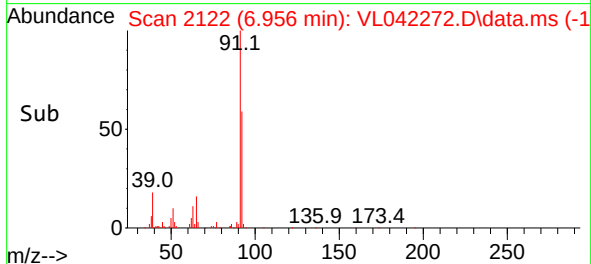
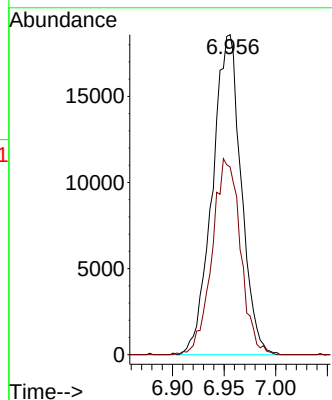
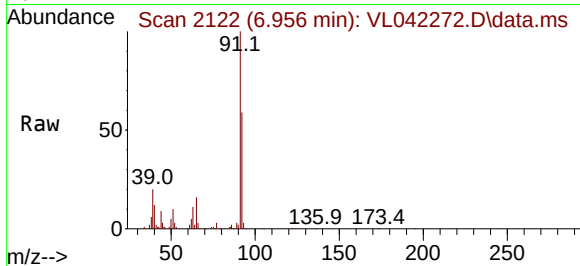
#53
Toluene
Concen: 0.771 ppbv
RT: 6.956 min Scan# 2113
Delta R.T. 0.029 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-1-04012025

Tgt Ion: 91 Resp: 36094
Ion Ratio Lower Upper
91 100
92 60.2 48.4 72.6

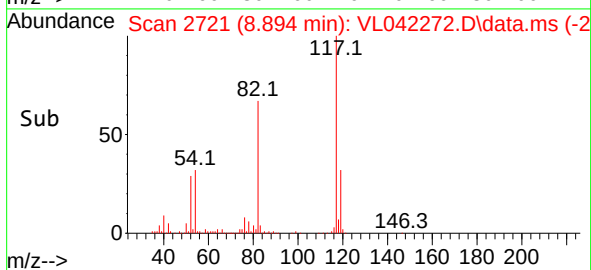
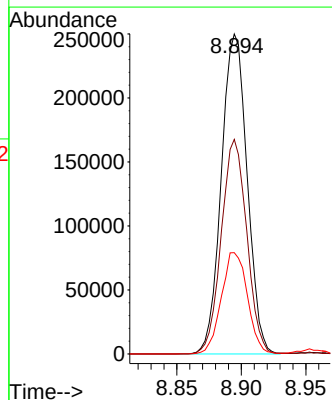
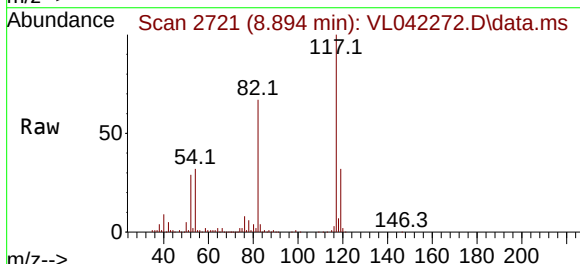
Manual Integrations
APPROVED

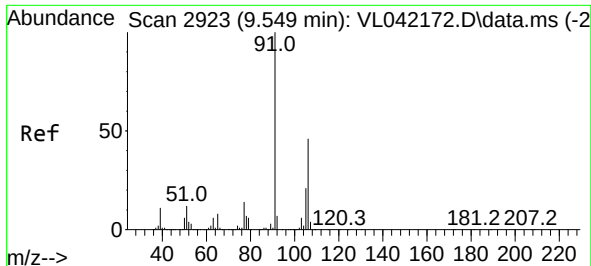
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.894 min Scan# 2721
Delta R.T. 0.019 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

Tgt Ion:117 Resp: 347731
Ion Ratio Lower Upper
117 100
82 66.2 55.8 83.6
119 32.2 25.5 38.3





#59

m/p-Xylene

Concen: 0.270 ppbv

RT: 9.542 min Scan# 2923

Delta R.T. -0.007 min

Lab File: VL042272.D

Acq: 08 Apr 2025 20:30

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B1-1-04012025

Tgt Ion: 91 Resp: 13334

Ion Ratio Lower Upper

91 100

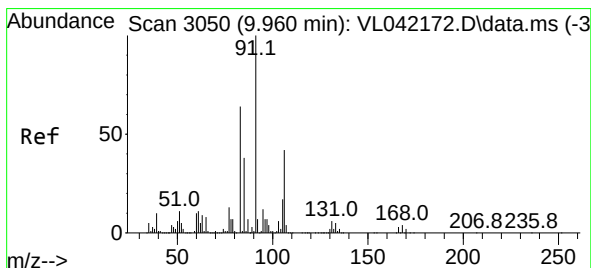
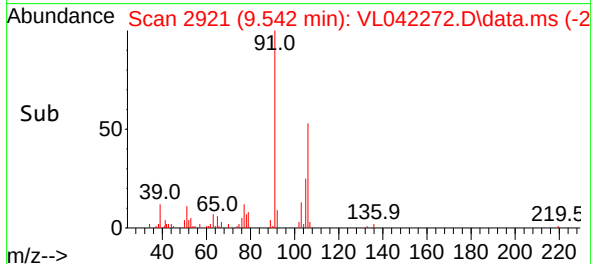
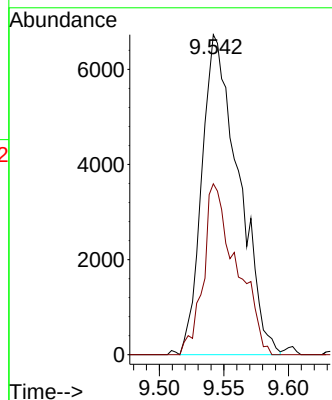
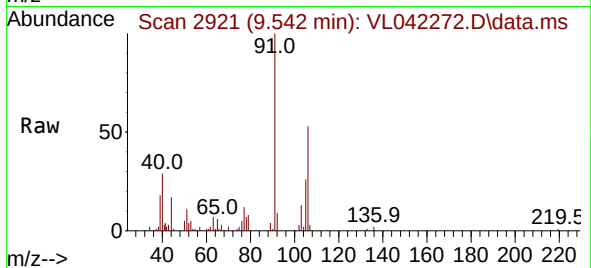
106 48.2 36.4 54.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025

Supervised By :Semsettin Yesilyurt 04/10/2025



#60

o-Xylene

Concen: 0.105 ppbv m

RT: 9.972 min Scan# 3054

Delta R.T. 0.013 min

Lab File: VL042272.D

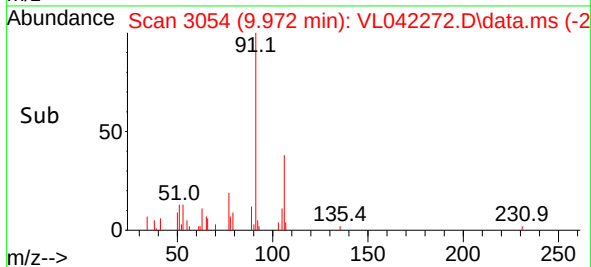
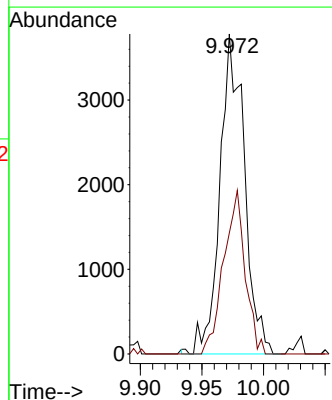
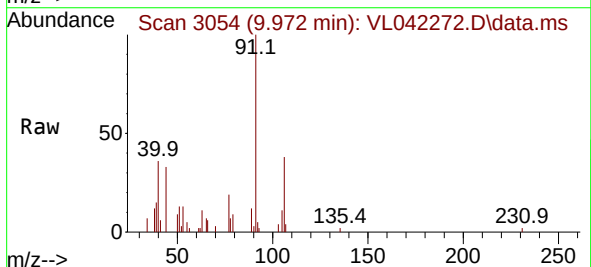
Acq: 08 Apr 2025 20:30

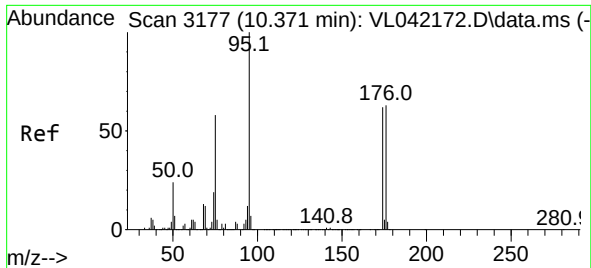
Tgt Ion: 91 Resp: 5213

Ion Ratio Lower Upper

91 100

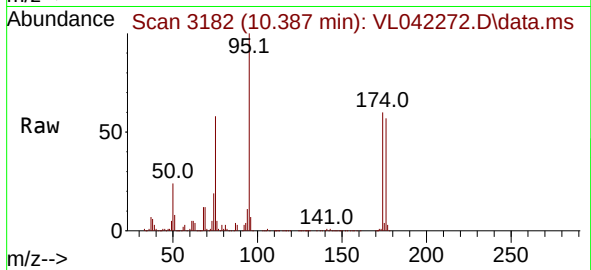
106 123.2 20.8 62.5#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.629 ppbv
 RT: 10.387 min Scan# 31
 Delta R.T. 0.016 min
 Lab File: VL042272.D
 Acq: 08 Apr 2025 20:30

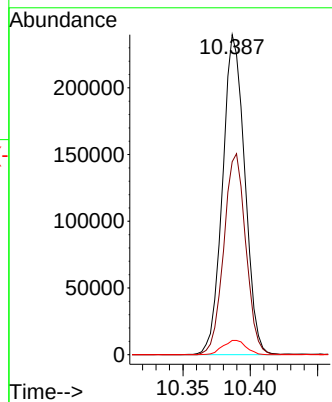
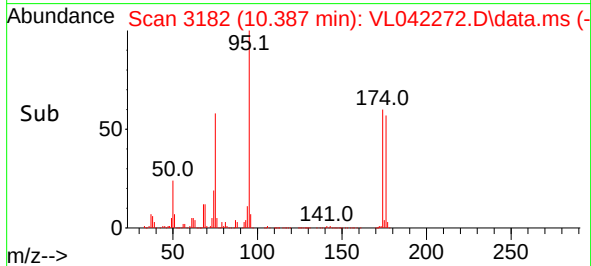
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-1-04012025



Tgt Ion: 95 Resp: 274979
 Ion Ratio Lower Upper
 95 100
 174 62.4 50.6 76.0
 175 4.7 3.8 5.6

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
 Supervised By :Semsettin Yesilyurt 04/10/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042272.D
Acq On : 08 Apr 2025 20:30
Operator : SY/MD
Sample : Q1728-07 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-1-04012025

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: VL042272.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	417	rBV	3880770	3649753	100.00%	31.373%
2	1.440	417	418	423	rVV	4260436	2199270	60.26%	18.905%
3	1.473	425	428	431	rVB2	75622	48576	1.33%	0.418%
4	2.800	829	838	845	rBV	580344	597229	16.36%	5.134%
5	3.975	1187	1201	1217	rBV	708114	1075672	29.47%	9.246%
6	6.956	2109	2122	2134	rBV3	50383	96940	2.66%	0.833%
7	8.894	2703	2721	2730	rBV	881157	1260568	34.54%	10.836%
8	8.953	2730	2739	2750	rVB	209919	330800	9.06%	2.844%
9	10.387	3168	3182	3192	rBV	1127002	1323157	36.25%	11.374%
10	11.785	3601	3614	3623	rBV	948723	991215	27.16%	8.520%
11	13.393	4104	4111	4118	rBV	55135	60166	1.65%	0.517%

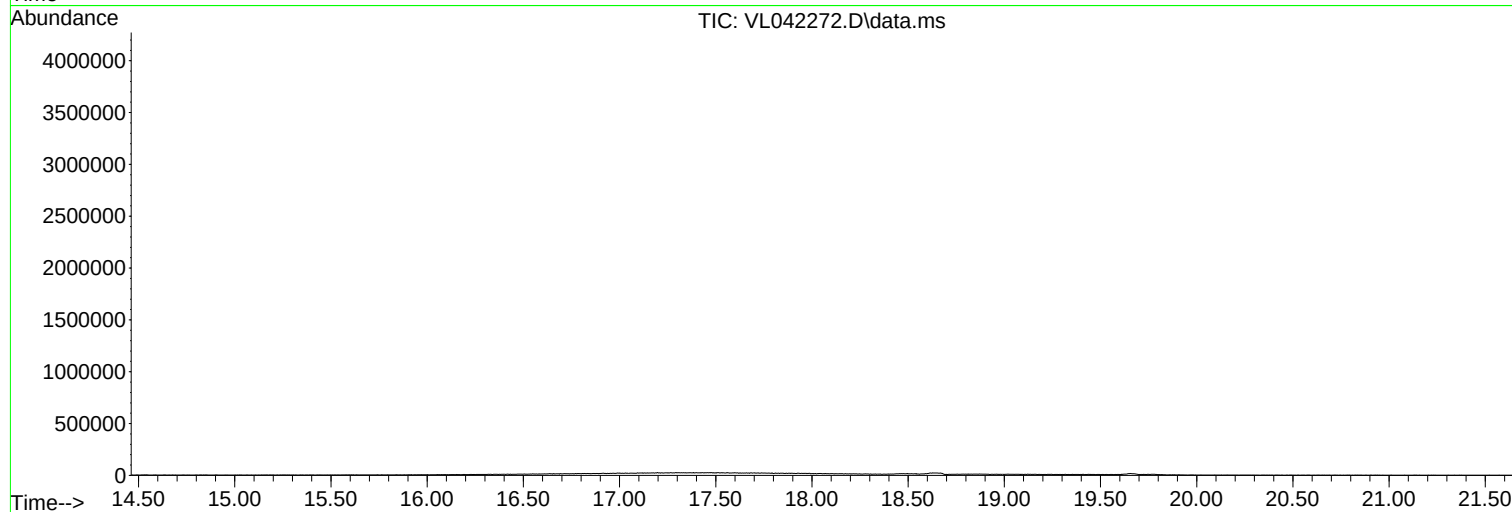
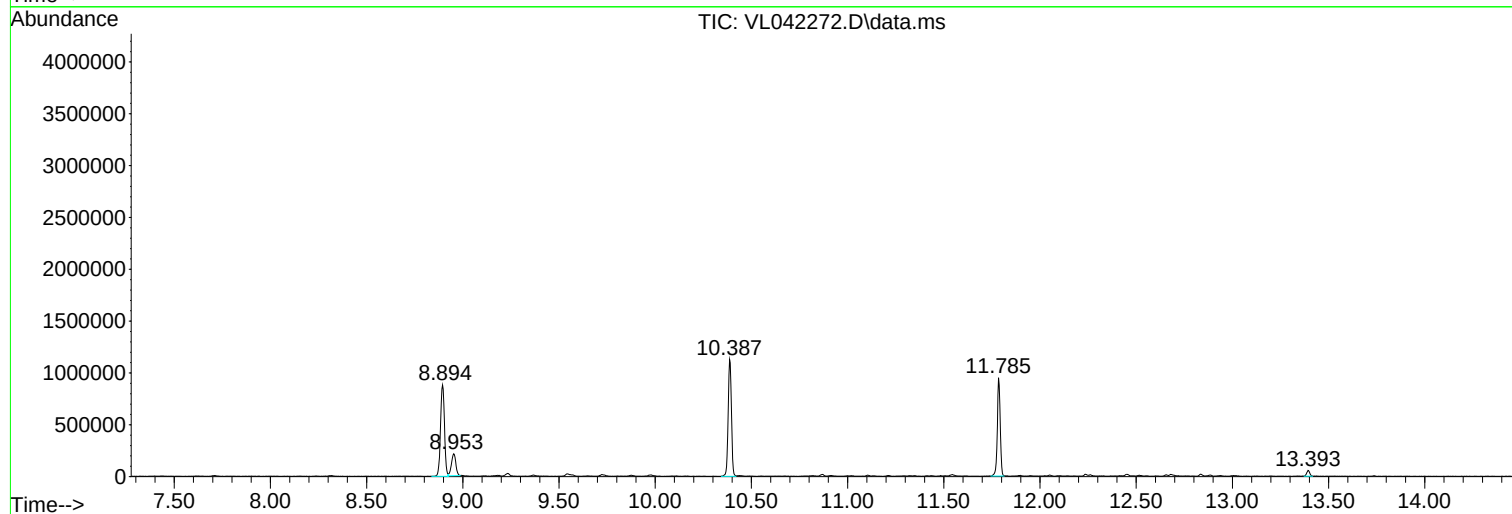
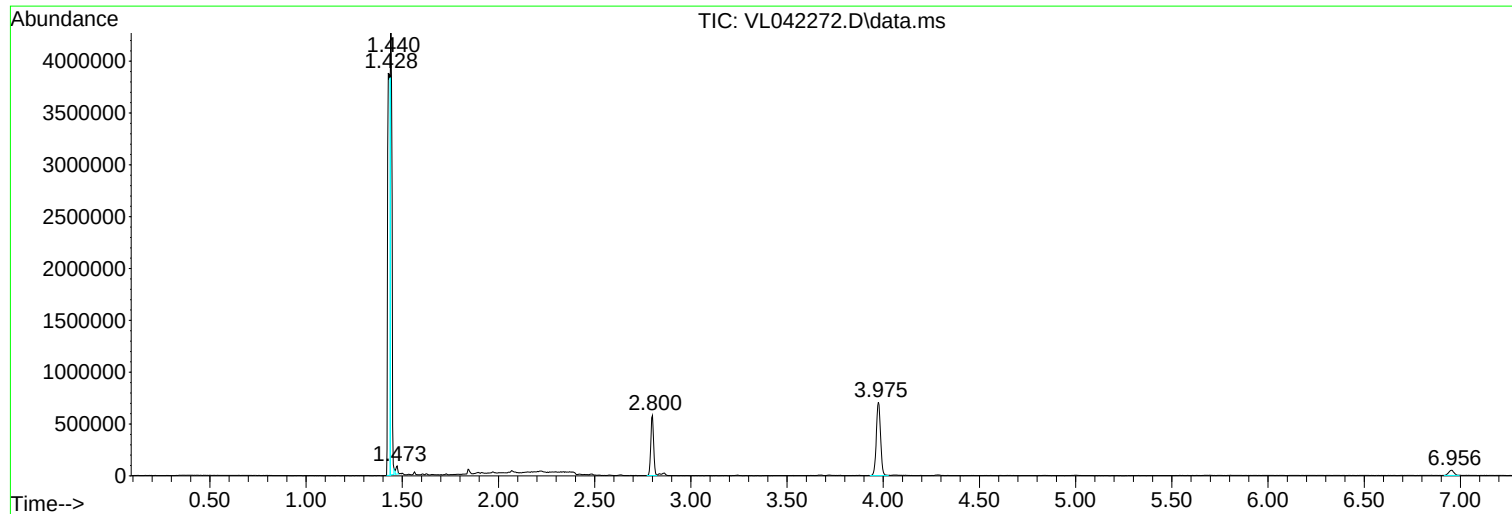
Sum of corrected areas: 11633346

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042272.D
Acq On : 08 Apr 2025 20:30
Operator : SY/MD
Sample : Q1728-07 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-1-04012025

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\VL040825\
Data File : VL042272.D
Acq On : 08 Apr 2025 20:30
Operator : SY/MD
Sample : Q1728-07 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-1-04012025

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\VL040825\
Data File : VL042272.D
Acq On : 08 Apr 2025 20:30
Operator : SY/MD
Sample : Q1728-07 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-1-04012025

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:	04/02/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B2-4-04022025	SDG No.:	Q1728
Lab Sample ID:	Q1728-08	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
VL042263.D	10		04/08/25 14:53	VL040825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.10	10.4	U	10.4	24.7	ug/m3
74-87-3	Chloromethane	0.98	2.02	U	2.02	10.3	ug/m3
75-01-4	Vinyl Chloride	0.14	0.36	U	0.36	0.77	ug/m3
74-83-9	Bromomethane	1.40	5.44	U	5.44	19.4	ug/m3
75-00-3	Chloroethane	1.70	4.49	U	4.49	13.2	ug/m3
109-99-9	Tetrahydrofuran	1.30	3.83	U	3.83	14.8	ug/m3
75-69-4	Trichlorofluoromethane	1.60	8.99	U	8.99	28.1	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	1.60	12.3	U	12.3	38.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.88	6.15	U	6.15	35.0	ug/m3
75-65-0	tert-Butyl alcohol	2.60	7.88	J	5.76	15.2	ug/m3
142-82-5	Heptane	2.20	9.02	J	4.51	20.5	ug/m3
75-35-4	1,1-Dichloroethene	1.40	5.55	U	5.55	19.8	ug/m3
67-64-1	Acetone	340	808	E	5.70	11.9	ug/m3
75-15-0	Carbon Disulfide	1.60	4.98	U	4.98	15.6	ug/m3
1634-04-4	Methyl tert-Butyl Ether	1.20	4.33	U	4.33	18.0	ug/m3
75-09-2	Methylene Chloride	11.9	41.3		6.60	17.4	ug/m3
156-60-5	trans-1,2-Dichloroethene	1.90	7.53	U	7.53	19.8	ug/m3
75-34-3	1,1-Dichloroethane	1.30	5.26	U	5.26	20.2	ug/m3
110-82-7	Cyclohexane	2.20	7.57	U	7.57	17.2	ug/m3
78-93-3	2-Butanone	4.60	13.6	J	3.54	14.8	ug/m3
56-23-5	Carbon Tetrachloride	0.11	0.69	U	0.69	1.89	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.89	3.53	U	3.53	19.8	ug/m3
67-66-3	Chloroform	0.83	4.05	U	4.05	24.4	ug/m3
71-55-6	1,1,1-Trichloroethane	0.10	0.55	U	0.55	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	1.70	7.94	J	4.67	23.4	ug/m3
71-43-2	Benzene	0.87	2.78	U	2.78	16.0	ug/m3
107-06-2	1,2-Dichloroethane	0.91	3.68	U	3.68	20.2	ug/m3
79-01-6	Trichloroethene	1.00	5.37		0.91	1.61	ug/m3
78-87-5	1,2-Dichloropropane	1.10	5.08	U	5.08	23.1	ug/m3
75-27-4	Bromodichloromethane	0.77	5.16	U	5.16	33.5	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.93	3.81	U	3.81	20.5	ug/m3
108-88-3	Toluene	9.30	35.0		4.15	18.8	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.60	2.72	U	2.72	22.7	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.64	2.91	U	2.91	22.7	ug/m3
79-00-5	1,1,2-Trichloroethane	0.71	3.87	U	3.87	27.3	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/02/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B2-4-04022025	SDG No.:	Q1728
Lab Sample ID:	Q1728-08	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
VL042263.D	10		04/08/25 14:53	VL040825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.66	5.62	U	5.62	42.6	ug/m3
106-93-4	1,2-Dibromoethane	0.72	5.53	U	5.53	7.69	ug/m3
127-18-4	Tetrachloroethene	0.15	1.02	U	1.02	2.03	ug/m3
108-90-7	Chlorobenzene	0.76	3.50	U	3.50	23.0	ug/m3
100-41-4	Ethyl Benzene	7.10	30.8		5.21	21.7	ug/m3
179601-23-1	m/p-Xylene	98.6	428		9.12	43.4	ug/m3
95-47-6	o-Xylene	74.8	325		5.21	21.7	ug/m3
100-42-5	Styrene	1.10	4.68	U	4.68	21.3	ug/m3
75-25-2	Bromoform	0.57	5.89	U	5.89	51.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.11	0.76	U	0.76	2.06	ug/m3
95-49-8	2-Chlorotoluene	1.10	5.70	U	5.70	25.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	32.4	159		5.41	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	37.8	186		3.83	24.6	ug/m3
541-73-1	1,3-Dichlorobenzene	0.80	4.81	U	4.81	30.1	ug/m3
106-46-7	1,4-Dichlorobenzene	0.53	3.19	U	3.19	30.1	ug/m3
95-50-1	1,2-Dichlorobenzene	0.75	4.51	U	4.51	30.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.85	6.31	U	6.31	37.1	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.85	9.07	U	9.07	53.3	ug/m3
106-99-0	1,3-Butadiene	1.30	2.88	U	2.88	11.1	ug/m3
91-20-3	Naphthalene	0.75	3.93	U	3.93	5.24	ug/m3
622-96-8	4-Ethyltoluene	13.1	64.4		5.90	24.6	ug/m3
110-54-3	Hexane	2.40	8.46	J	3.88	17.6	ug/m3
107-05-1	Allyl Chloride	1.50	4.70	U	4.70	15.7	ug/m3
123-91-1	1,4-Dioxane	2.10	7.57	U	7.57	18.0	ug/m3
80-62-6	Methyl Methacrylate	0.86	3.52	U	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	164000	2.8
540-36-3	1,4-Difluorobenzene	443000	3.978
3114-55-4	Chlorobenzene-d5	423000	8.898

TENTATIVE IDENTIFIED COMPOUNDS

115-07-1	Propene	2.50	J	1.49	ppbv
64-17-5	Ethanol	89.5	J	1.73	ppbv
67-63-0	Isopropyl Alcohol	14.8	J	1.89	ppbv

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/02/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B2-4-04022025	SDG No.:	Q1728
Lab Sample ID:	Q1728-08	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
VL042263.D	10		04/08/25 14:53	VL040825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
000583-57-3	Cyclohexane, 1,2-dimethyl- (cis/tr	28.4		J		7.64	ppbv
006876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	29.7		J		8.16	ppbv
001678-91-7	Cyclohexane, ethyl-	36.5		J		9.00	ppbv
003221-61-2	Octane, 2-methyl-	28.6		J		9.02	ppbv
003073-66-3	Cyclohexane, 1,1,3-trimethyl-	36.5		J		9.12	ppbv
000926-82-9	Heptane, 3,5-dimethyl-	55.0		J		9.16	ppbv
003728-56-1	1-Ethyl-4-methylcyclohexane	30.4		J		10.1	ppbv
98-82-8	Isopropylbenzene	2.80		J		10.6	ppbv
103-65-1	n-propylbenzene	2.70		J		11.0	ppbv
98-06-6	tert-Butylbenzene	4.30		J		11.5	ppbv
000556-67-2	Cyclotetrasiloxane, octamethyl-	27.6		J		11.8	ppbv
99-87-6	p-Isopropyltoluene	1.60		J		11.9	ppbv
002847-72-5	Decane, 4-methyl-	28.1		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\VL040825\
 Data File : VL042263.D
 Acq On : 08 Apr 2025 14:53
 Operator : SY/MD
 Sample : Q1728-08 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-4-04022025

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
 Supervised By :Semsettin Yesilyurt 04/10/2025

Quant Time: Apr 09 01:56:00 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

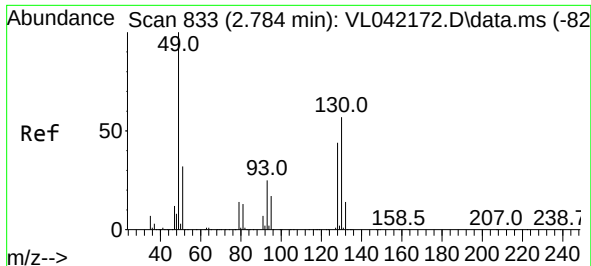
QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

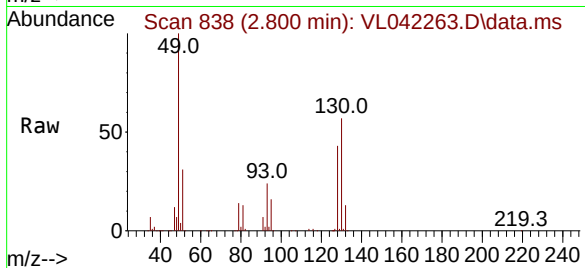
Internal Standards						
1) Bromochloromethane	2.800	49	164494	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.978	114	443030	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.898	117	423016	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	330470	9.513	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.100%
Target Compounds						
					Qvalue	
9) Propene	1.492	41	2802	0.246	ppbv #	15
10) Heptane	5.007	43	6759m	0.223	ppbv	
13) Ethanol	1.729	45	9619	8.947	ppbv	86
15) Acetone	1.842	43	776044	33.733	ppbv	97
17) tert-Butyl alcohol	2.052	59	7402	0.258	ppbv	94
19) Isopropyl Alcohol	1.894	45	19147	1.475	ppbv #	1
20) Methylene Chloride	2.072	84	10209	1.192	ppbv	97
26) Hexane	2.842	57	5541	0.240	ppbv #	39
34) 2-Butanone	2.573	43	14609	0.455	ppbv	99
38) Trichloroethene	4.574	130	1879m	0.103	ppbv	
44) 2,2,4-Trimethylpentane	4.661	57	12434m	0.168	ppbv	
53) Toluene	6.959	91	48553	0.933	ppbv	98
58) Ethyl Benzene	9.370	91	53186	0.708	ppbv	97
59) m/p-Xylene	9.548	91	591775	9.863	ppbv	100
60) o-Xylene	9.979	91	449997	7.482	ppbv	97
62) Isopropylbenzene	10.552	105	25164	0.280	ppbv	99
64) n-propylbenzene	11.002	120	6217	0.269	ppbv	65
65) tert-Butylbenzene	11.549	119	35615	0.428	ppbv #	74
69) p-Isopropyltoluene	11.940	119	15445	0.155	ppbv	94
72) 4-Ethyltoluene	11.138	105	97907	1.307	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.218	105	211978	3.241	ppbv	99
74) 1,2,4-Trimethylbenzene	11.549	105	284630	3.777	ppbv #	65

(#) = 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: VL042263.D
Acq: 08 Apr 2025 14:53

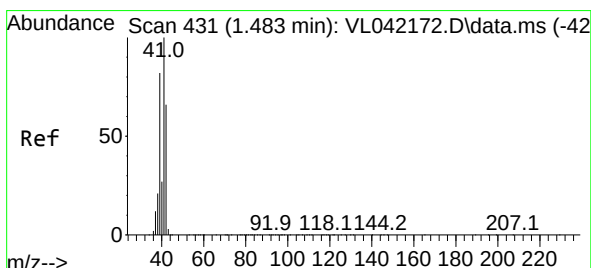
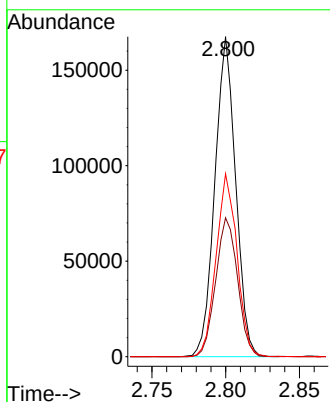
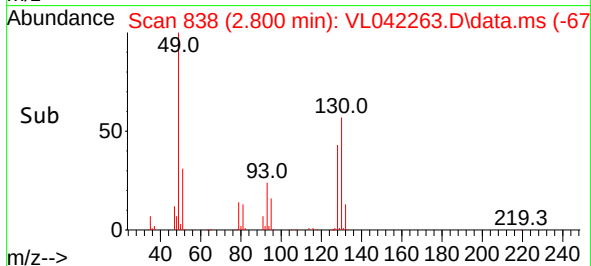
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025



Tgt Ion: 49 Resp: 164494
Ion Ratio Lower Upper
49 100
128 45.6 22.9 68.5
130 57.5 28.8 86.4

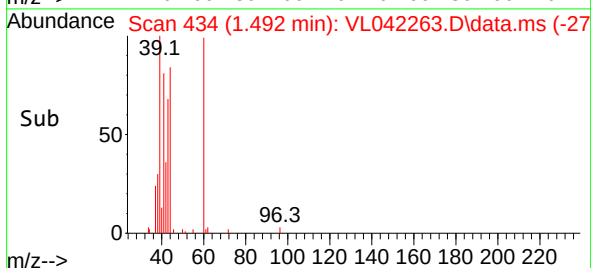
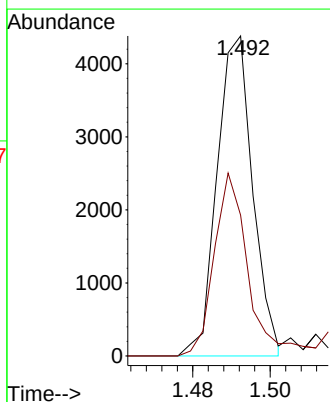
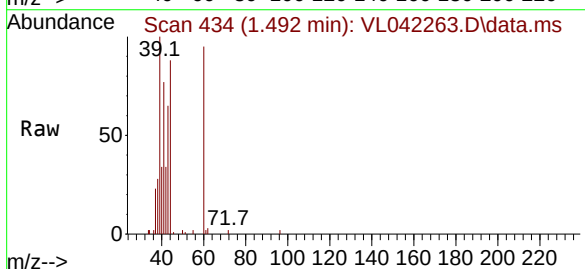
Manual Integrations
APPROVED

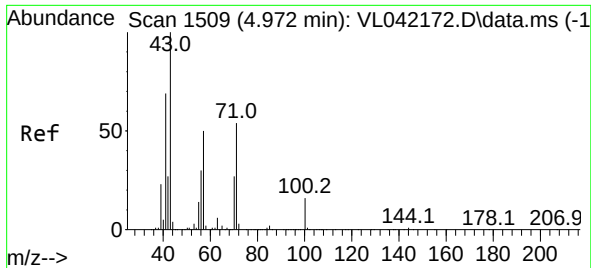
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#9
Propene
Concen: 0.246 ppbv
RT: 1.492 min Scan# 434
Delta R.T. 0.010 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

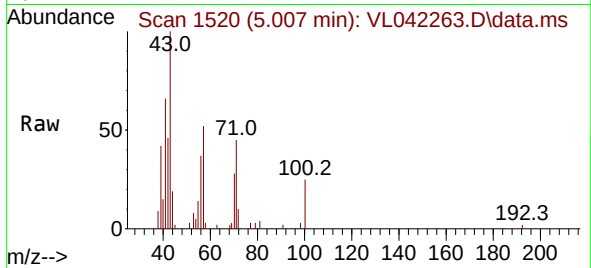
Tgt Ion: 41 Resp: 2802
Ion Ratio Lower Upper
41 100
42 0.0 55.4 83.2#





#10
Heptane
Concen: 0.223 ppbv m
RT: 5.007 min Scan# 11
Delta R.T. 0.035 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

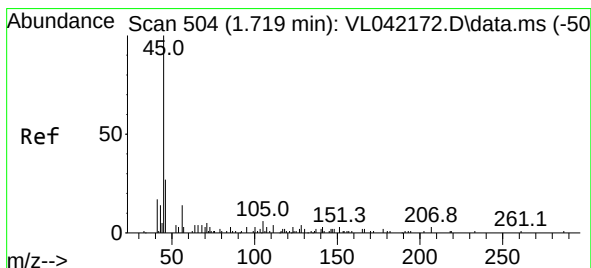
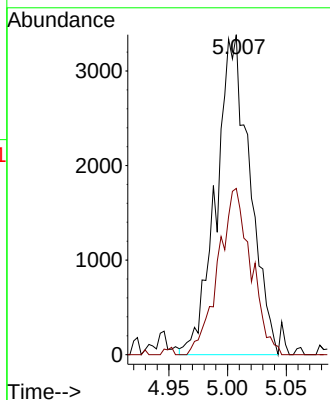
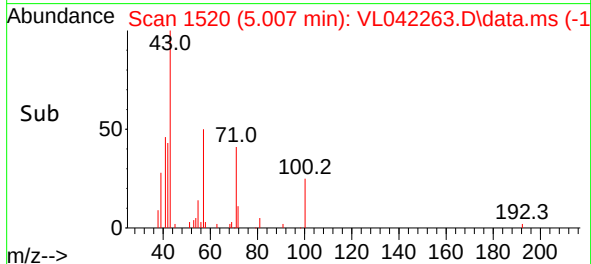
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025



Tgt Ion: 43 Resp: 6759
Ion Ratio Lower Upper
43 100
57 51.0 39.4 59.2

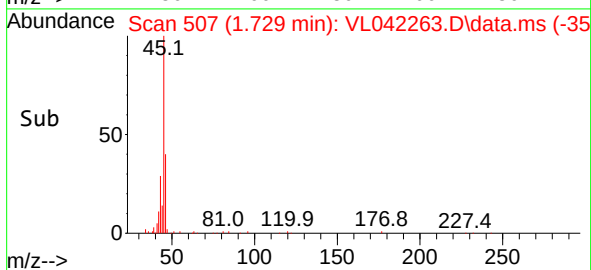
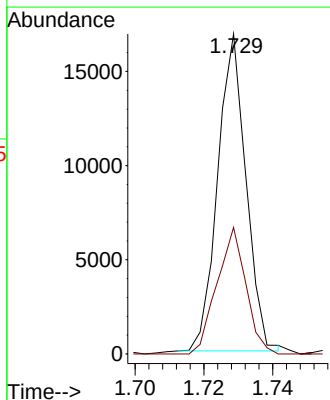
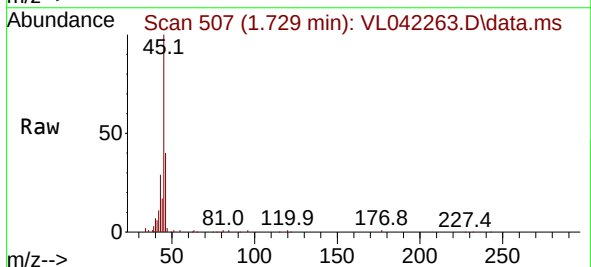
Manual Integrations
APPROVED

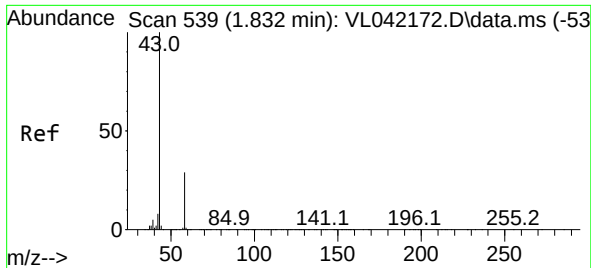
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#13
Ethanol
Concen: 8.947 ppbv
RT: 1.729 min Scan# 507
Delta R.T. 0.010 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

Tgt Ion: 45 Resp: 9619
Ion Ratio Lower Upper
45 100
46 40.8 20.2 80.8





#15

Acetone

Concen: 33.733 ppbv

RT: 1.842 min Scan# 54

Delta R.T. 0.010 min

Lab File: VL042263.D

Acq: 08 Apr 2025 14:53

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-4-04022025

Tgt Ion: 43 Resp: 77604

Ion Ratio Lower Upper

43 100

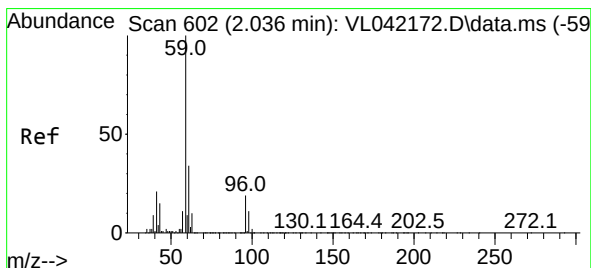
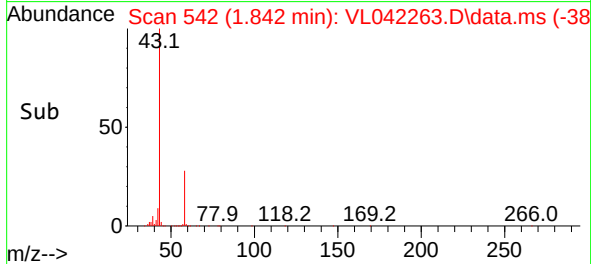
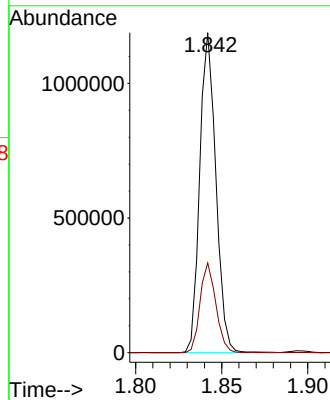
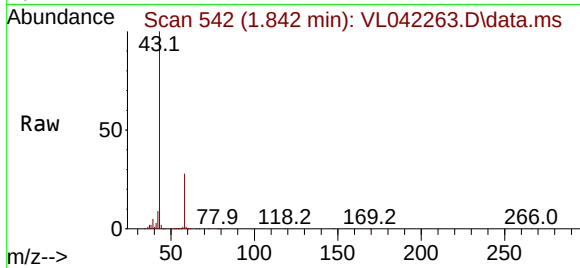
58 27.5 23.2 34.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025

Supervised By :Semsettin Yesilyurt 04/10/2025



#17

tert-Butyl alcohol

Concen: 0.258 ppbv

RT: 2.052 min Scan# 607

Delta R.T. 0.016 min

Lab File: VL042263.D

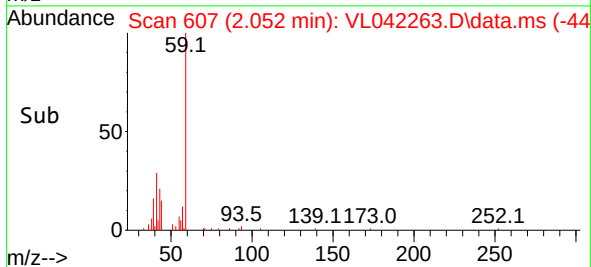
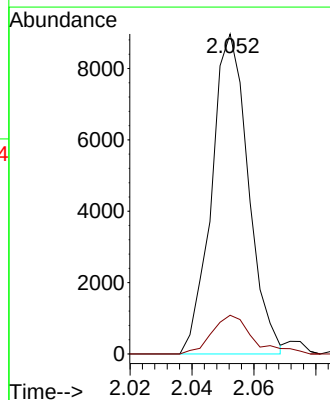
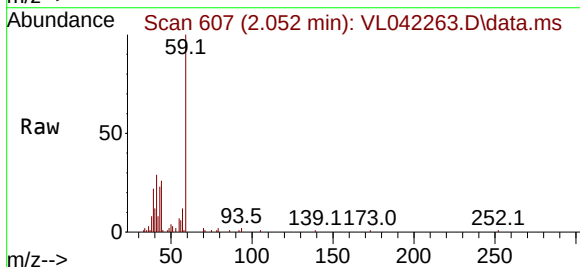
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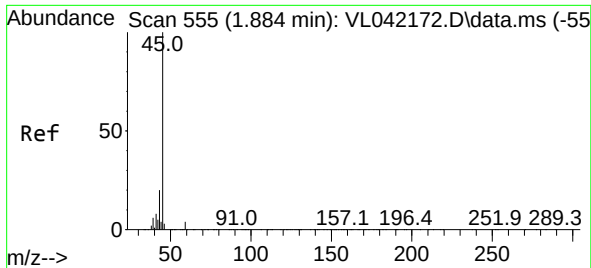
Tgt Ion: 59 Resp: 7402

Ion Ratio Lower Upper

59 100

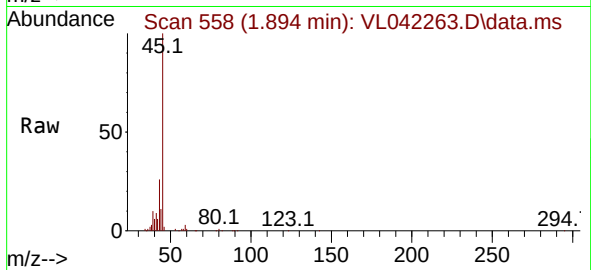
57 13.3 8.9 13.3





#19
Isopropyl Alcohol
Concen: 1.475 ppbv
RT: 1.894 min Scan# 511
Delta R.T. 0.010 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

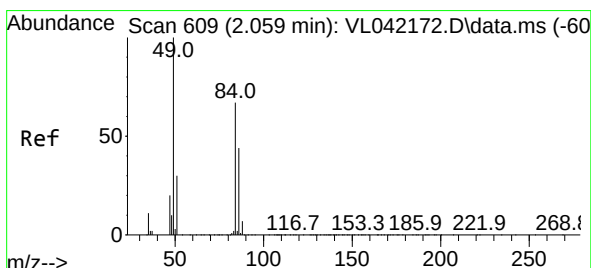
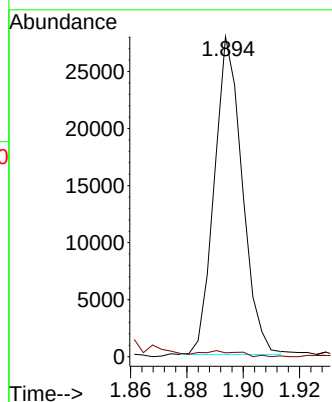
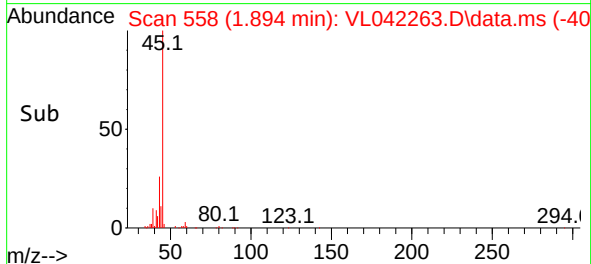
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025



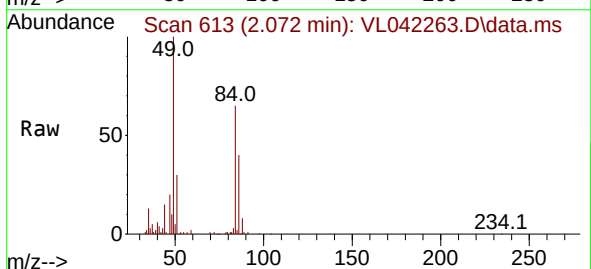
Tgt Ion: 45 Resp: 1914
Ion Ratio Lower Upper
45 100
58 1113.8 36.9 55.3

Manual Integrations
APPROVED

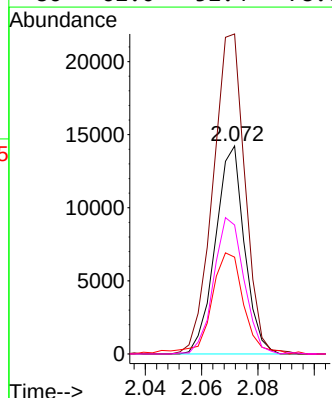
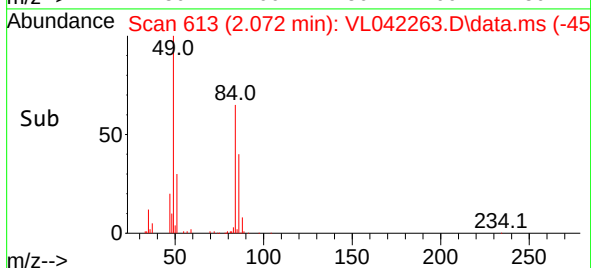
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

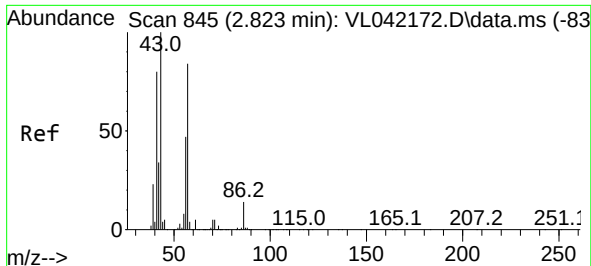


#20
Methylene Chloride
Concen: 1.192 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53



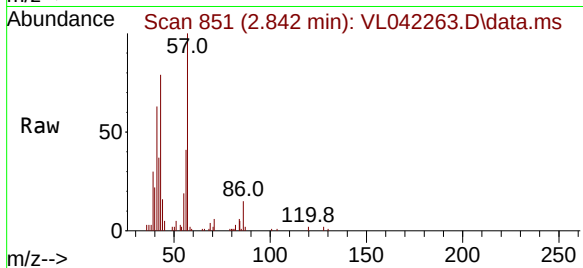
Tgt Ion: 84 Resp: 10209
Ion Ratio Lower Upper
84 100
49 152.9 120.2 180.4
51 45.0 37.4 56.0
86 62.0 52.4 78.6





#26
Hexane
Concen: 0.240 ppbv
RT: 2.842 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

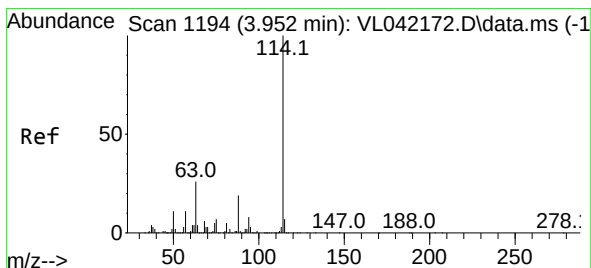
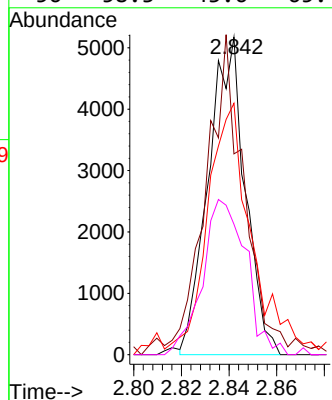
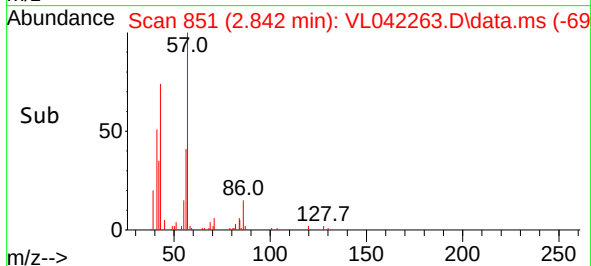
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025



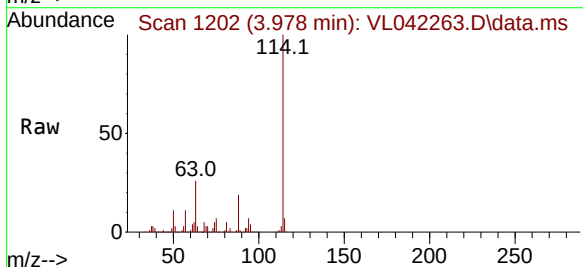
Tgt Ion: 57 Resp: 554
Ion Ratio Lower Upper
57 100
41 107.4 76.6 114.8
43 98.8 207.8 311.8
56 58.3 43.6 65.4

Manual Integrations
APPROVED

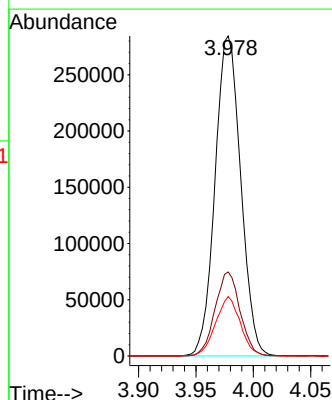
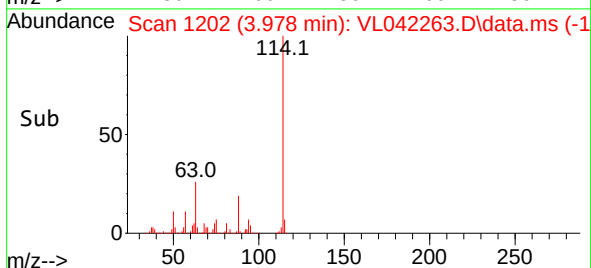
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

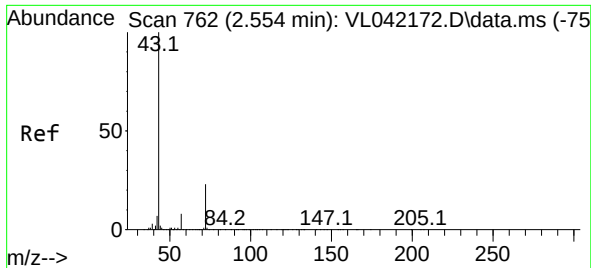


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 1202
Delta R.T. 0.026 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53



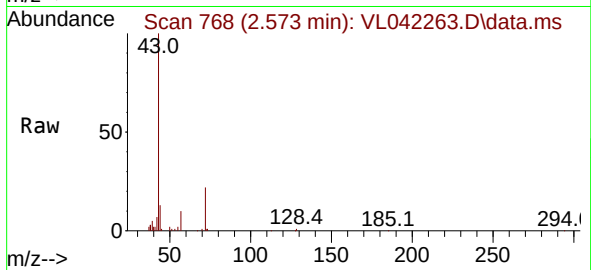
Tgt Ion:114 Resp: 443030
Ion Ratio Lower Upper
114 100
63 25.6 20.7 31.1
88 17.8 15.0 22.4





#34
2-Butanone
Concen: 0.455 ppbv
RT: 2.573 min Scan# 768
Delta R.T. 0.019 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

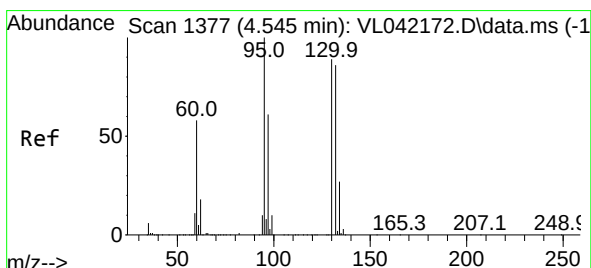
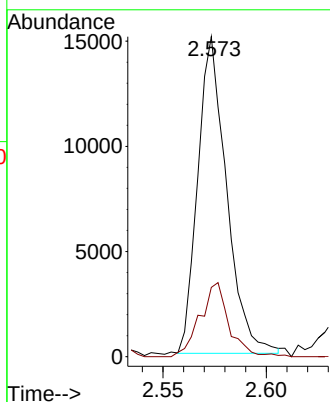
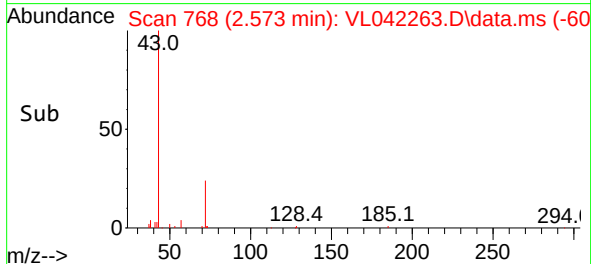
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025



Tgt Ion: 43 Resp: 14609
Ion Ratio Lower Upper
43 100
72 23.4 18.2 27.2

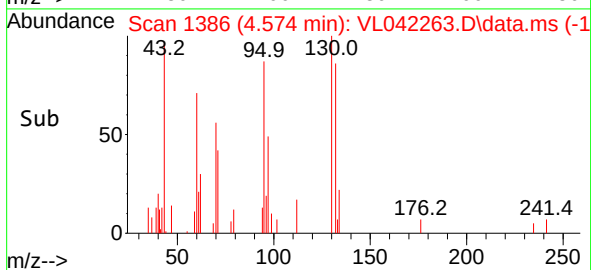
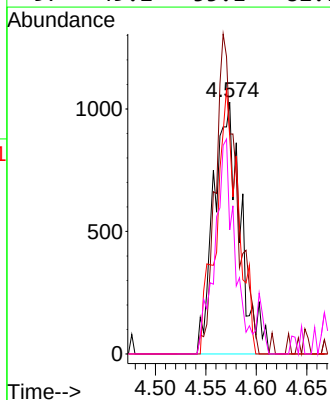
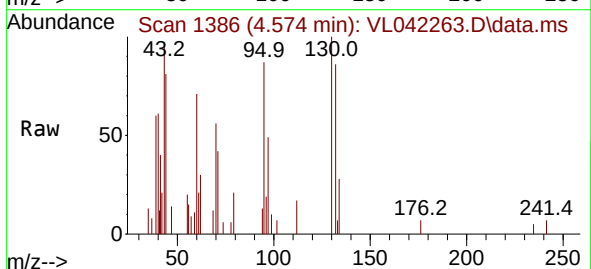
Manual Integrations
APPROVED

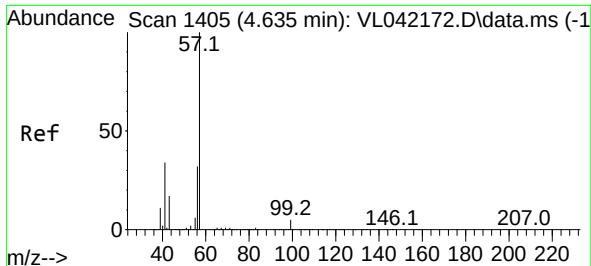
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#38
Trichloroethene
Concen: 0.103 ppbv m
RT: 4.574 min Scan# 1386
Delta R.T. 0.029 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

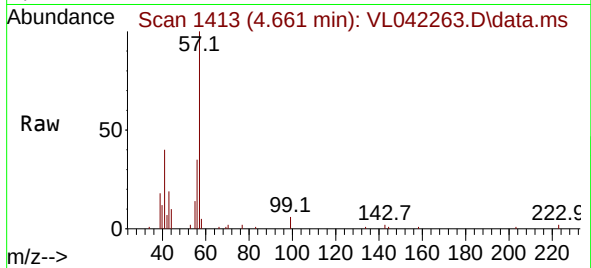
Tgt Ion:130 Resp: 1879
Ion Ratio Lower Upper
130 100
95 87.3 89.8 134.8#
132 86.2 77.4 116.2
97 49.2 55.1 82.7#





#44
2,2,4-Trimethylpentane
Concen: 0.168 ppbv m
RT: 4.661 min Scan# 1405
Delta R.T. 0.026 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

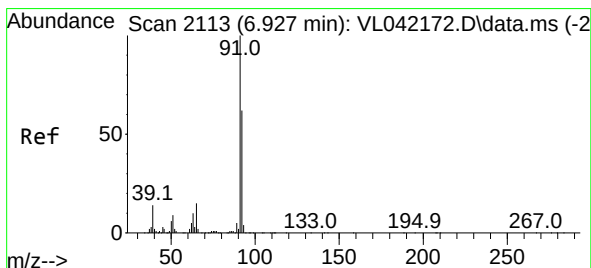
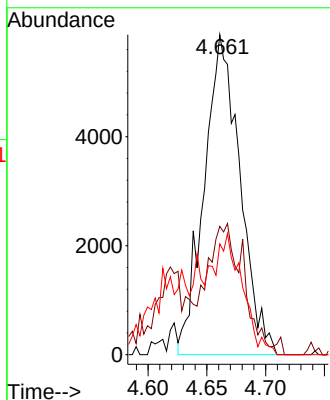
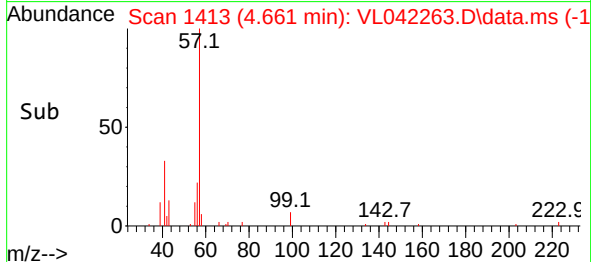
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025



Tgt Ion: 57 Resp: 12434
Ion Ratio Lower Upper
57 100
41 47.6 26.8 40.2
56 31.8 25.6 38.4

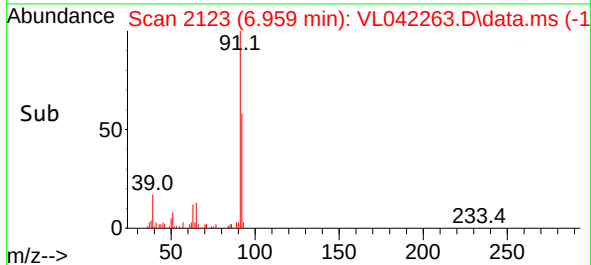
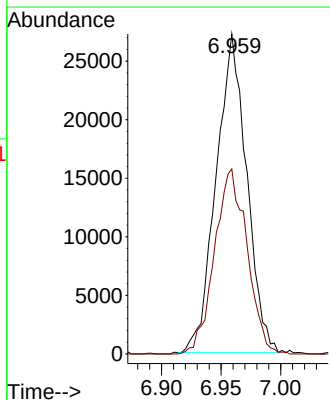
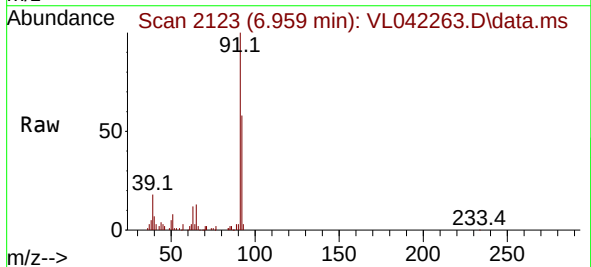
Manual Integrations
APPROVED

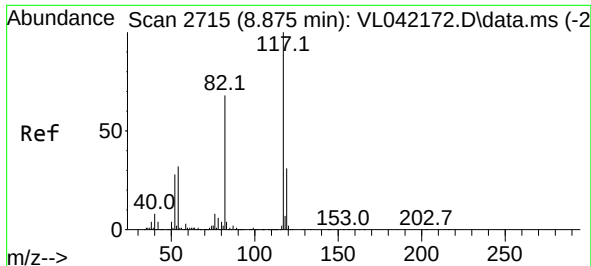
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#53
Toluene
Concen: 0.933 ppbv
RT: 6.959 min Scan# 2123
Delta R.T. 0.032 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

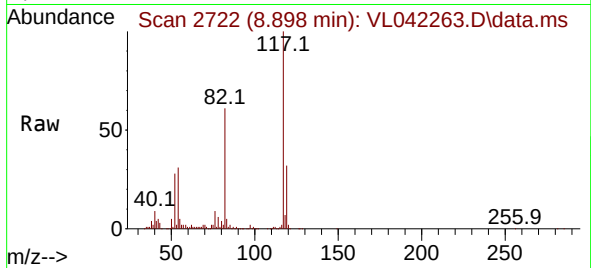
Tgt Ion: 91 Resp: 48553
Ion Ratio Lower Upper
91 100
92 61.7 48.4 72.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 21
Delta R.T. 0.022 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

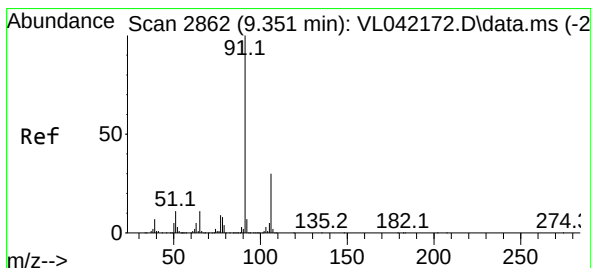
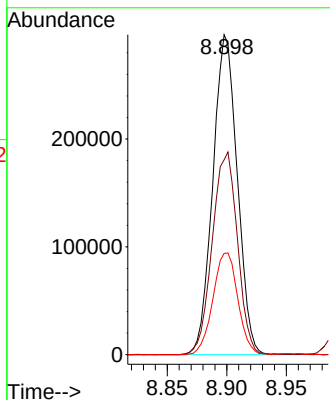
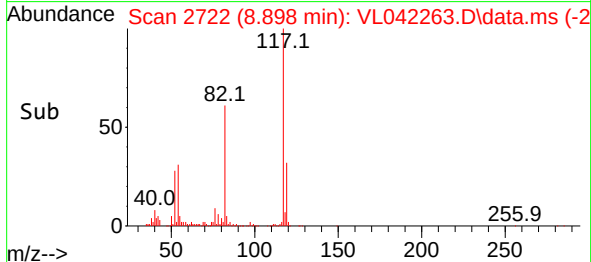
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025



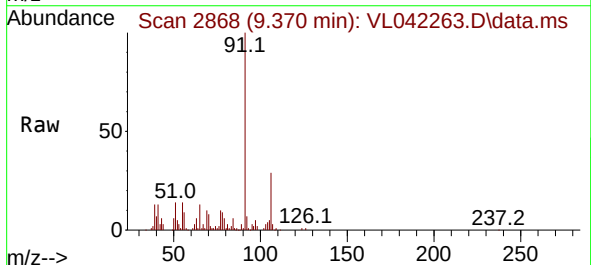
Tgt Ion:117 Resp: 423010
Ion Ratio Lower Upper
117 100
82 65.4 55.8 83.6
119 32.5 25.5 38.3

Manual Integrations
APPROVED

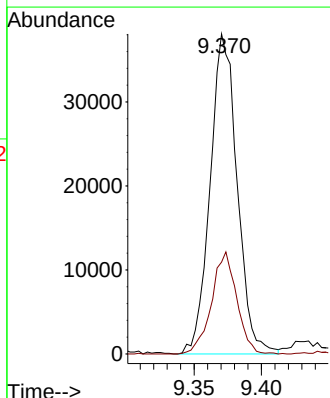
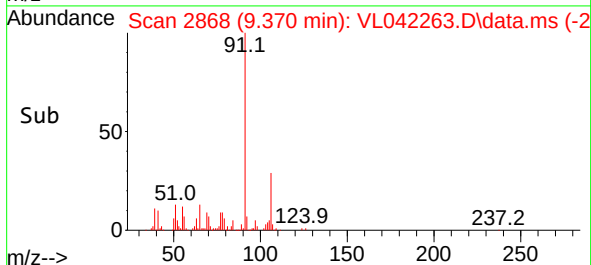
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

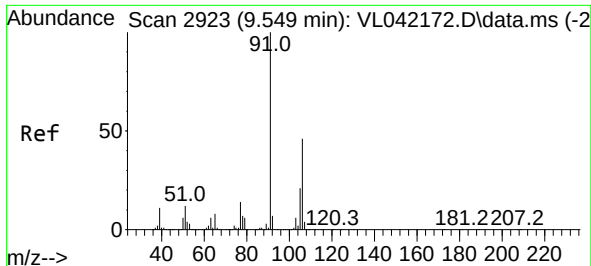


#58
Ethyl Benzene
Concen: 0.708 ppbv
RT: 9.370 min Scan# 2868
Delta R.T. 0.019 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53



Tgt Ion: 91 Resp: 53186
Ion Ratio Lower Upper
91 100
106 28.7 24.2 36.2





#59

m/p-Xylene

Concen: 9.863 ppbv

RT: 9.548 min Scan# 2923

Delta R.T. -0.000 min

Lab File: VL042263.D

Acq: 08 Apr 2025 14:53

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-4-04022025

Tgt Ion: 91 Resp: 591775

Ion Ratio Lower Upper

91 100

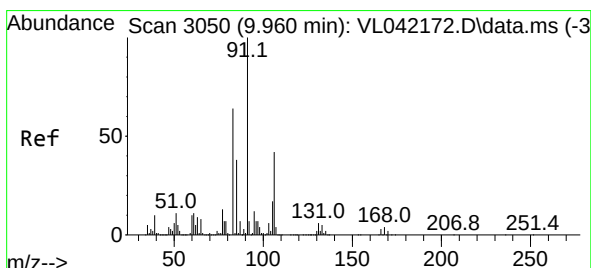
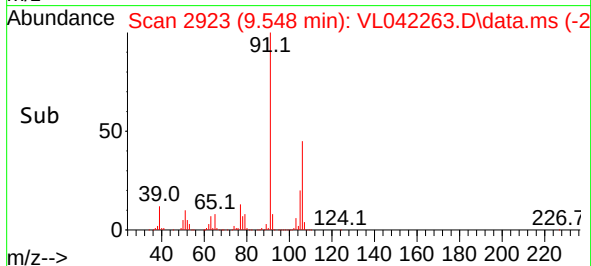
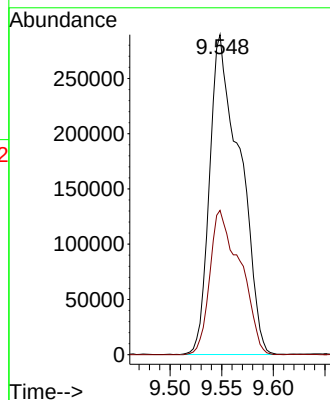
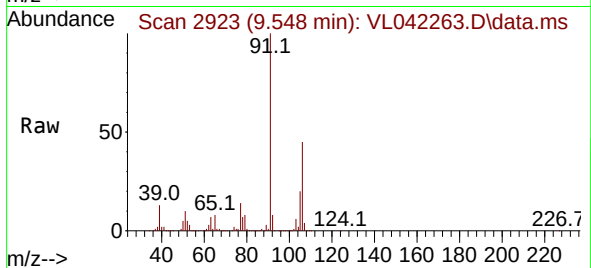
106 45.6 36.4 54.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025

Supervised By :Semsettin Yesilyurt 04/10/2025



#60

o-Xylene

Concen: 7.482 ppbv

RT: 9.979 min Scan# 3056

Delta R.T. 0.019 min

Lab File: VL042263.D

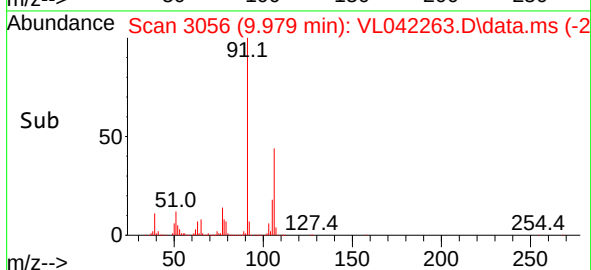
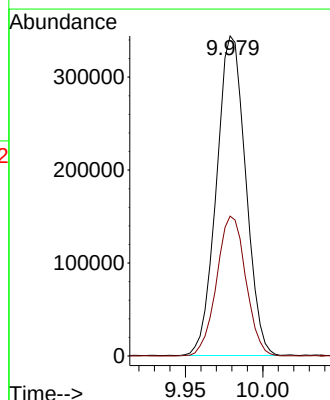
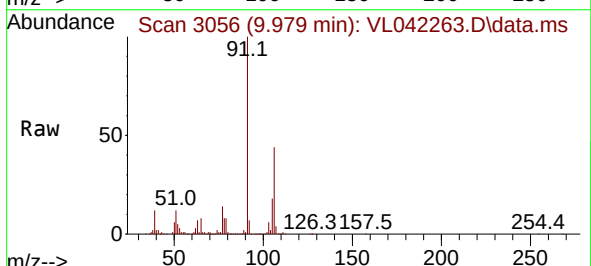
Acq: 08 Apr 2025 14:53

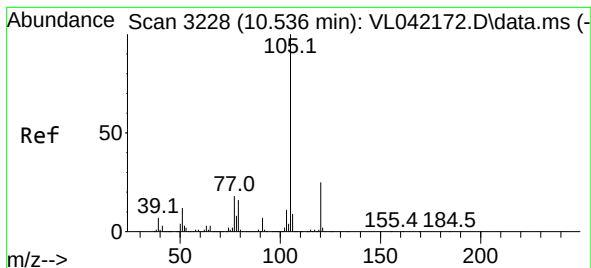
Tgt Ion: 91 Resp: 449997

Ion Ratio Lower Upper

91 100

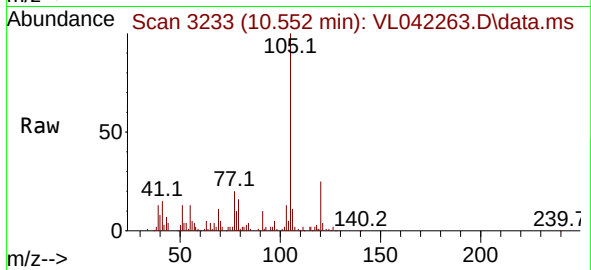
106 43.9 20.8 62.5





#62
Isopropylbenzene
Concen: 0.280 ppbv
RT: 10.552 min Scan# 31
Delta R.T. 0.016 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

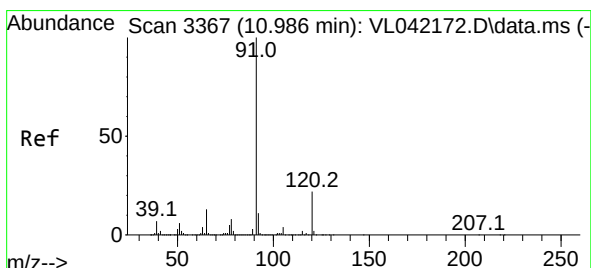
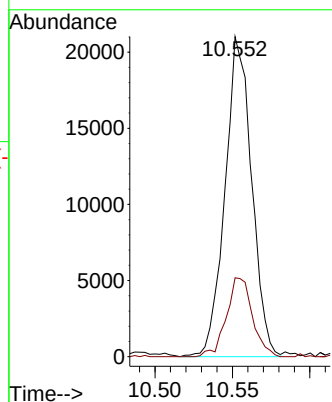
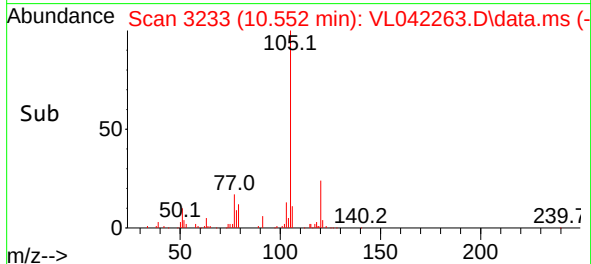
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025



Tgt Ion:105 Resp: 25164
Ion Ratio Lower Upper
105 100
120 24.3 19.9 29.9

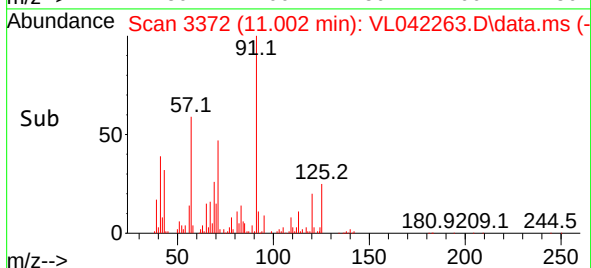
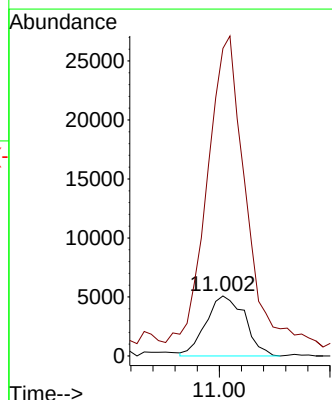
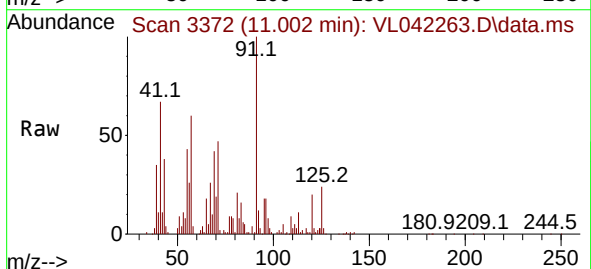
Manual Integrations
APPROVED

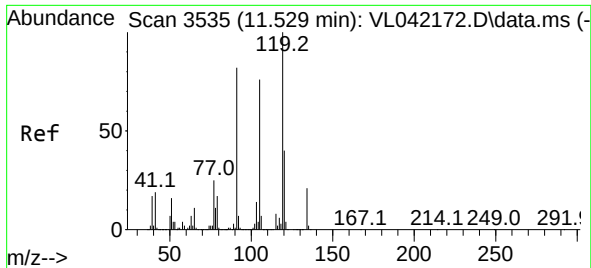
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#64
n-propylbenzene
Concen: 0.269 ppbv
RT: 11.002 min Scan# 3372
Delta R.T. 0.016 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

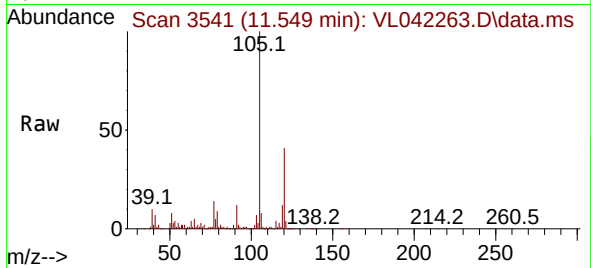
Tgt Ion:120 Resp: 6217
Ion Ratio Lower Upper
120 100
91 564.3 376.9 565.3





#65
tert-Butylbenzene
Concen: 0.428 ppbv
RT: 11.549 min Scan# 3535
Delta R.T. 0.019 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

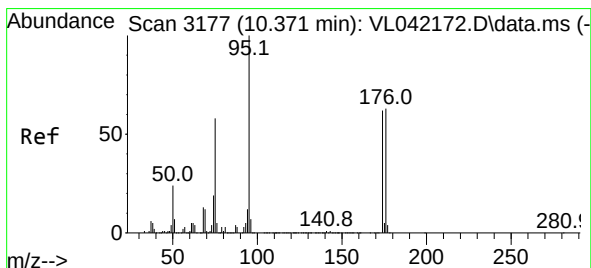
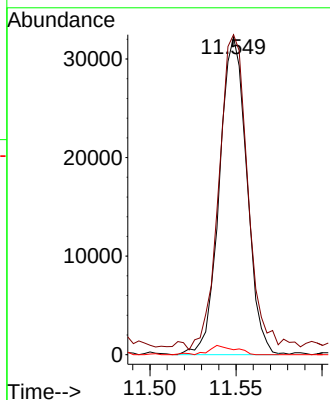
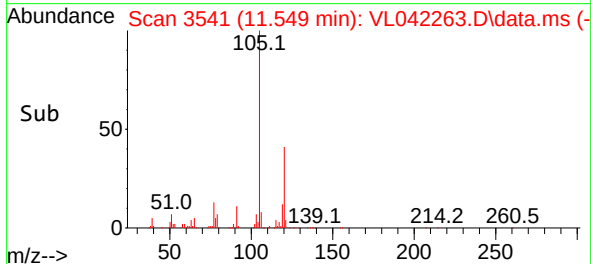
Instrument : MSVOA_L
ClientSampleId : SSSG-B2-4-04022025



Tgt Ion: 119 Resp: 3561
Ion Ratio Lower Upper
119 100
91 103.4 66.0 99.0
134 2.9 16.7 25.1

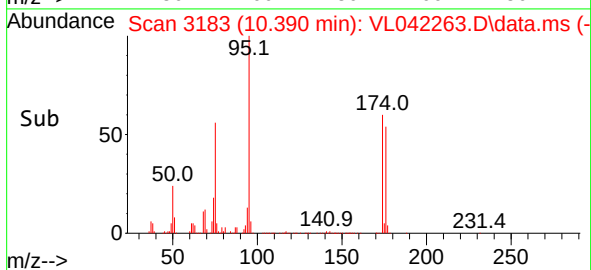
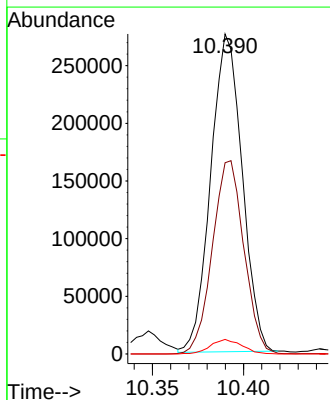
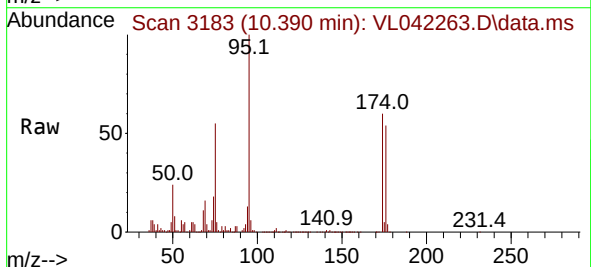
Manual Integrations
APPROVED

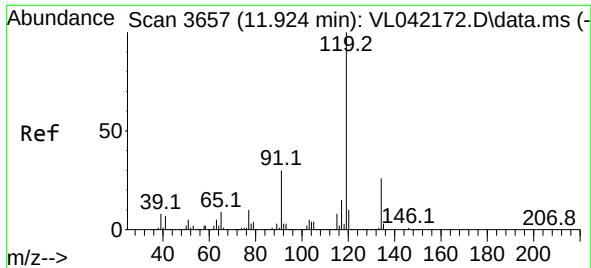
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.513 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. 0.019 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

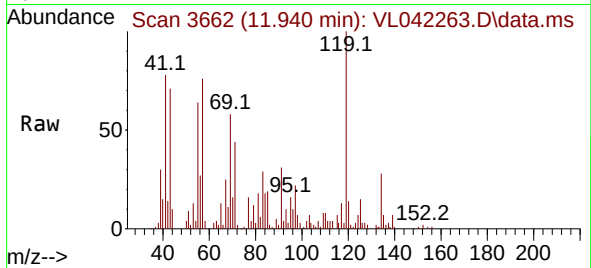
Tgt Ion: 95 Resp: 330470
Ion Ratio Lower Upper
95 100
174 61.0 50.6 76.0
175 4.6 3.8 5.6





#69
p-Isopropyltoluene
Concen: 0.155 ppbv
RT: 11.940 min Scan# 3662
Delta R.T. 0.016 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

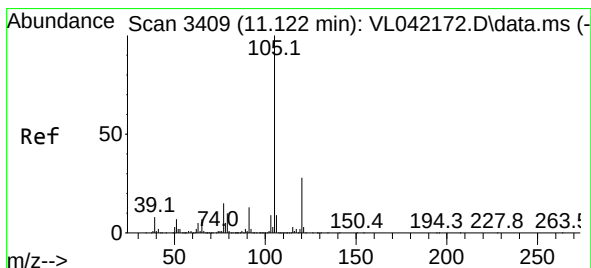
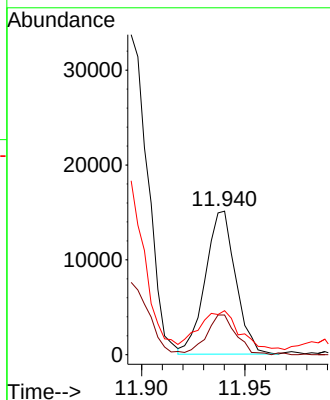
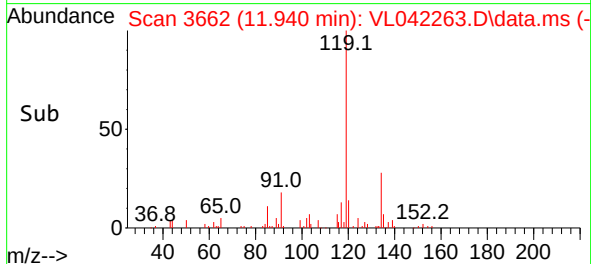
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025



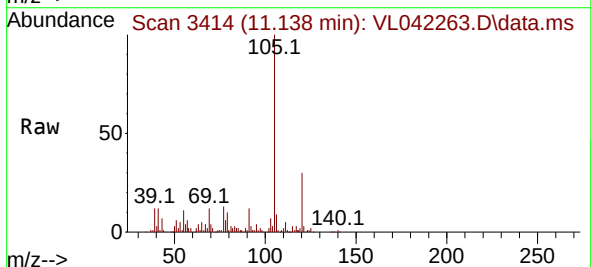
Tgt Ion:119 Resp: 15449
Ion Ratio Lower Upper
119 100
134 27.3 20.4 30.6
91 34.1 23.7 35.5

Manual Integrations
APPROVED

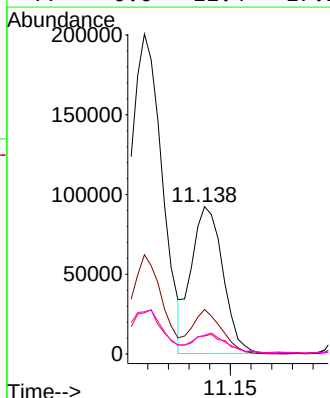
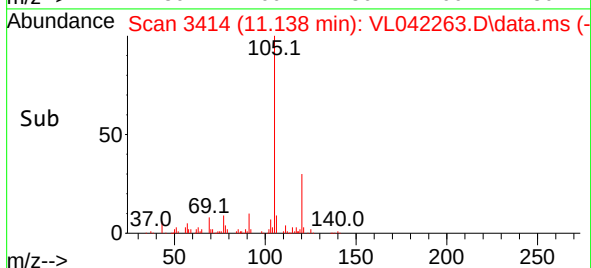
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

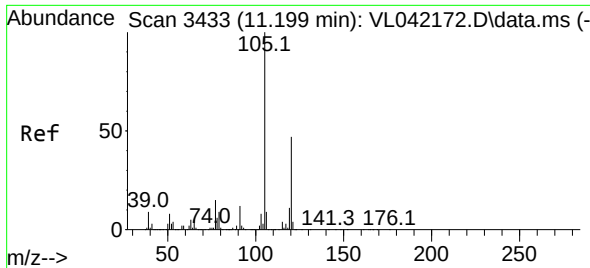


#72
4-Ethyltoluene
Concen: 1.307 ppbv
RT: 11.138 min Scan# 3414
Delta R.T. 0.016 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53



Tgt Ion:105 Resp: 97907
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#





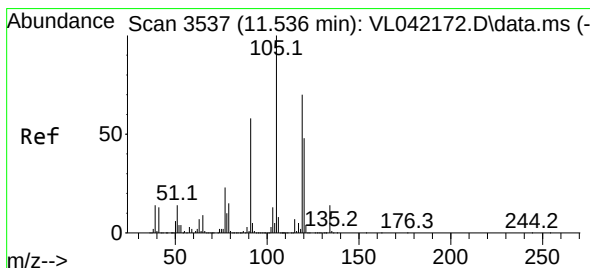
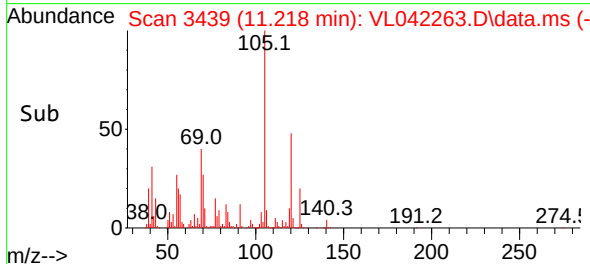
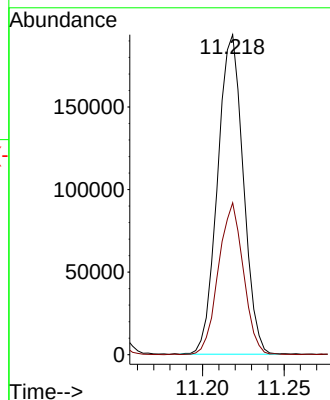
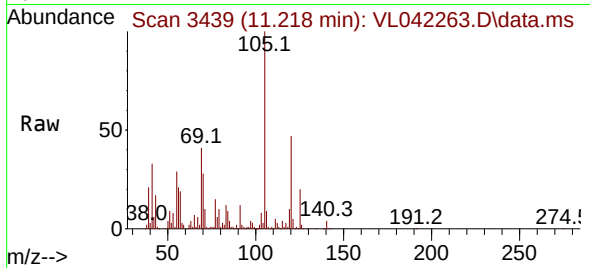
#73
1,3,5-Trimethylbenzene
Concen: 3.241 ppbv
RT: 11.218 min Scan# 3433
Delta R.T. 0.019 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

Instrument : MSVOA_L
ClientSampleId : SSSG-B2-4-04022025

Tgt Ion:105 Resp: 211978
Ion Ratio Lower Upper
105 100
120 47.5 37.4 56.0

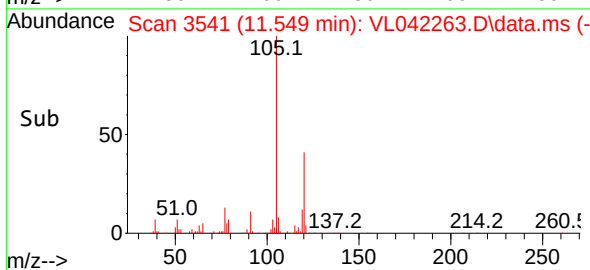
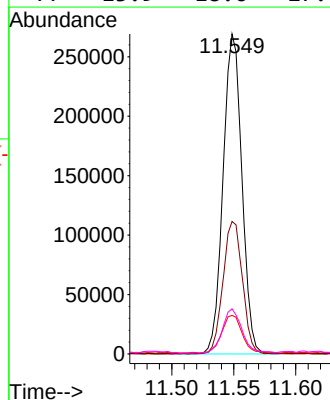
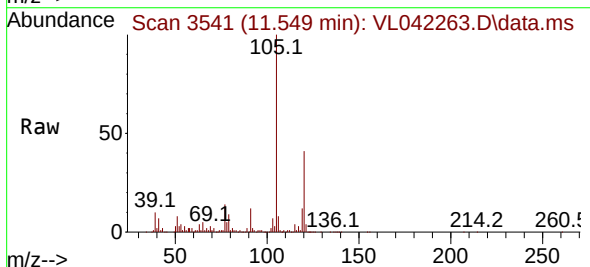
Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#74
1,2,4-Trimethylbenzene
Concen: 3.777 ppbv
RT: 11.549 min Scan# 3541
Delta R.T. 0.013 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

Tgt Ion:105 Resp: 284630
Ion Ratio Lower Upper
105 100
120 41.3 38.6 58.0
91 11.8 46.2 69.2#
77 13.9 18.6 27.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042263.D
 Acq On : 08 Apr 2025 14:53
 Operator : SY/MD
 Sample : Q1728-08 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-4-04022025

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: VL042263.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	422	rBV	3653616	3502399	100.00%	9.525%
2	1.564	452	456	460	rBV	187663	100061	2.86%	0.272%
3	1.606	465	469	473	rBV	127266	75742	2.16%	0.206%
4	1.842	537	542	551	rBV	1853477	1213040	34.63%	3.299%
5	2.072	608	613	621	rVB	70458	60157	1.72%	0.164%
6	2.800	828	838	845	rBV	613476	617882	17.64%	1.680%
7	3.978	1188	1202	1219	rBV	748543	1166391	33.30%	3.172%
8	4.292	1286	1299	1308	rBV6	18954	38302	1.09%	0.104%
9	5.697	1714	1733	1749	rVB6	78935	211019	6.02%	0.574%
10	5.813	1754	1769	1770	rBV6	36039	51347	1.47%	0.140%
11	5.820	1770	1771	1788	rVB4	35952	50650	1.45%	0.138%
12	6.224	1885	1896	1897	rBV3	33647	40171	1.15%	0.109%
13	6.302	1908	1920	1937	rVB8	37471	97514	2.78%	0.265%
14	6.496	1964	1980	1989	rBV6	44476	104450	2.98%	0.284%
15	6.554	1989	1998	2010	rVB7	28680	67131	1.92%	0.183%
16	6.755	2047	2060	2072	rBV7	47638	107127	3.06%	0.291%
17	6.959	2110	2123	2143	rVB2	74551	167473	4.78%	0.455%
18	7.208	2186	2200	2223	rBV4	120533	293425	8.38%	0.798%
19	7.396	2247	2258	2267	rBV6	25696	48483	1.38%	0.132%
20	7.470	2267	2281	2297	rVB4	51972	137546	3.93%	0.374%
21	7.642	2315	2334	2343	rBV4	257048	555810	15.87%	1.512%
22	7.694	2343	2350	2367	rVB2	168178	313478	8.95%	0.852%
23	7.843	2382	2396	2406	rBV2	82984	152588	4.36%	0.415%
24	7.920	2406	2420	2436	rBV8	46494	129451	3.70%	0.352%
25	8.001	2436	2445	2448	rVV6	25630	41196	1.18%	0.112%
26	8.034	2448	2455	2463	rVB7	46545	81207	2.32%	0.221%
27	8.157	2480	2493	2510	rVB2	347043	580721	16.58%	1.579%
28	8.335	2528	2548	2562	rVB6	232882	479998	13.70%	1.305%
29	8.513	2591	2603	2615	rVB8	33516	72283	2.06%	0.197%
30	8.655	2638	2647	2654	rBV7	31081	49857	1.42%	0.136%
31	8.710	2654	2664	2671	rVV3	49487	73393	2.10%	0.200%
32	8.788	2679	2688	2698	rVB3	105060	165942	4.74%	0.451%
33	8.898	2706	2722	2733	rBV2	1095033	1957942	55.90%	5.325%
34	9.001	2744	2754	2757	rBV4	483765	714583	20.40%	1.943%
35	9.018	2757	2759	2770	rVB2	481379	559943	15.99%	1.523%
36	9.118	2780	2790	2797	rBV2	471617	714963	20.41%	1.944%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042263.D
 Acq On : 08 Apr 2025 14:53
 Operator : SY/MD
 Sample : Q1728-08 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-4-04022025

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	9.163	2797	2804	2825	rVB3	590706	1076999	30.75%	2.929%
38	9.273	2837	2838	2854	rVB6	43144	57684	1.65%	0.157%
39	9.377	2854	2870	2871	rBV2	137059	185817	5.31%	0.505%
40	9.393	2871	2875	2881	rVV2	179443	254747	7.27%	0.693%
41	9.432	2881	2887	2898	rVB2	337938	490046	13.99%	1.333%
42	9.548	2914	2923	2927	rBV	814290	1136462	32.45%	3.091%
43	9.571	2927	2930	2940	rVB6	652035	813490	23.23%	2.212%
44	9.626	2940	2947	2954	rBV4	69703	113100	3.23%	0.308%
45	9.671	2954	2961	2970	rVB4	176373	243682	6.96%	0.663%
46	9.730	2970	2979	2980	rBV	56527	52221	1.49%	0.142%
47	9.746	2982	2984	2992	rVB2	79529	79009	2.26%	0.215%
48	9.846	2995	3015	3016	rBV2	77052	162990	4.65%	0.443%
49	9.878	3018	3025	3032	rVB4	181372	245560	7.01%	0.668%
50	9.979	3044	3056	3080	rVB	996063	1638868	46.79%	4.457%
51	10.115	3082	3098	3105	rBV4	290606	594761	16.98%	1.617%
52	10.163	3105	3113	3122	rVB6	245313	391288	11.17%	1.064%
53	10.390	3154	3183	3193	rBV2	1372742	2174698	62.09%	5.914%
54	10.448	3193	3201	3209	rVV4	350904	489777	13.98%	1.332%
55	10.497	3209	3216	3226	rVB3	106633	172157	4.92%	0.468%
56	10.552	3226	3233	3240	rBV	61689	80120	2.29%	0.218%
57	10.594	3240	3246	3249	rBV3	46540	47609	1.36%	0.129%
58	10.626	3249	3256	3260	rBV	227430	293114	8.37%	0.797%
59	10.649	3260	3263	3268	rVV2	163070	179523	5.13%	0.488%
60	10.675	3268	3271	3278	rVB5	88733	101686	2.90%	0.277%
61	10.720	3278	3285	3293	rVB5	103852	151042	4.31%	0.411%
62	10.785	3294	3305	3308	rBV3	155419	215267	6.15%	0.585%
63	10.811	3308	3313	3318	rVV2	258979	298058	8.51%	0.811%
64	10.843	3318	3323	3326	rVV3	116415	126117	3.60%	0.343%
65	10.872	3326	3332	3339	rVB2	310415	364373	10.40%	0.991%
66	10.914	3339	3345	3350	rBV2	346243	396570	11.32%	1.078%
67	10.937	3350	3352	3360	rVB5	84460	77409	2.21%	0.211%
68	11.021	3368	3378	3387	rVB7	495655	844998	24.13%	2.298%
69	11.076	3387	3395	3398	rBV8	66357	99506	2.84%	0.271%
70	11.108	3398	3405	3411	rVV	557955	644516	18.40%	1.753%
71	11.141	3411	3415	3424	rVB5	309957	399492	11.41%	1.086%
72	11.218	3424	3439	3446	rBV3	1130499	1456446	41.58%	3.961%
73	11.267	3446	3454	3458	rBV3	141148	183041	5.23%	0.498%
74	11.293	3458	3462	3468	rVB3	187738	194700	5.56%	0.529%
75	11.325	3468	3472	3475	rBV	48143	37008	1.06%	0.101%
76	11.351	3475	3480	3488	rBV2	263989	290567	8.30%	0.790%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042263.D
 Acq On : 08 Apr 2025 14:53
 Operator : SY/MD
 Sample : Q1728-08 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-4-04022025

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

77	11.419	3494	3501	3502	rBV4	146376	139954	4.00%	0.381%
78	11.439	3502	3507	3515	rVV6	206620	330504	9.44%	0.899%
79	11.484	3515	3521	3528	rVB3	143047	174048	4.97%	0.473%
80	11.549	3534	3541	3555	rBV2	762368	1138967	32.52%	3.097%
81	11.610	3555	3560	3568	rVV3	154359	227819	6.50%	0.620%
82	11.652	3568	3573	3579	rVB5	105064	120490	3.44%	0.328%
83	11.717	3584	3593	3596	rBV10	40963	48664	1.39%	0.132%
84	11.743	3596	3601	3604	rBV3	77514	83372	2.38%	0.227%
85	11.785	3604	3614	3621	rVB3	304650	540394	15.43%	1.470%
86	11.824	3621	3626	3631	rBV9	31642	48322	1.38%	0.131%
87	11.895	3642	3648	3654	rVB	304559	302094	8.63%	0.822%
88	11.924	3654	3657	3660	rVV5	50675	43366	1.24%	0.118%
89	11.950	3660	3665	3671	rVB4	105340	136619	3.90%	0.372%
90	11.982	3671	3675	3681	rVB8	52999	53585	1.53%	0.146%
91	12.024	3681	3688	3691	rBV5	94850	120241	3.43%	0.327%
92	12.050	3691	3696	3709	rVB4	390442	549293	15.68%	1.494%
93	12.109	3709	3714	3720	rVB5	99353	112986	3.23%	0.307%
94	12.147	3720	3726	3731	rVB2	118144	113902	3.25%	0.310%
95	12.183	3731	3737	3741	rBV4	105844	126673	3.62%	0.344%
96	12.235	3747	3753	3759	rVV2	134153	153332	4.38%	0.417%
97	12.264	3759	3762	3771	rVB9	54117	73232	2.09%	0.199%
98	12.332	3778	3783	3790	rVB4	117064	133076	3.80%	0.362%
99	12.419	3804	3810	3815	rVB5	112701	110699	3.16%	0.301%
100	12.452	3815	3820	3826	rVB3	42332	38005	1.09%	0.103%
101	12.516	3834	3840	3845	rBV7	38870	52714	1.51%	0.143%
102	12.617	3862	3871	3877	rBV9	34173	49032	1.40%	0.133%
103	12.662	3877	3885	3888	rBV9	39929	52788	1.51%	0.144%
104	12.714	3896	3901	3907	rVB7	40741	49294	1.41%	0.134%

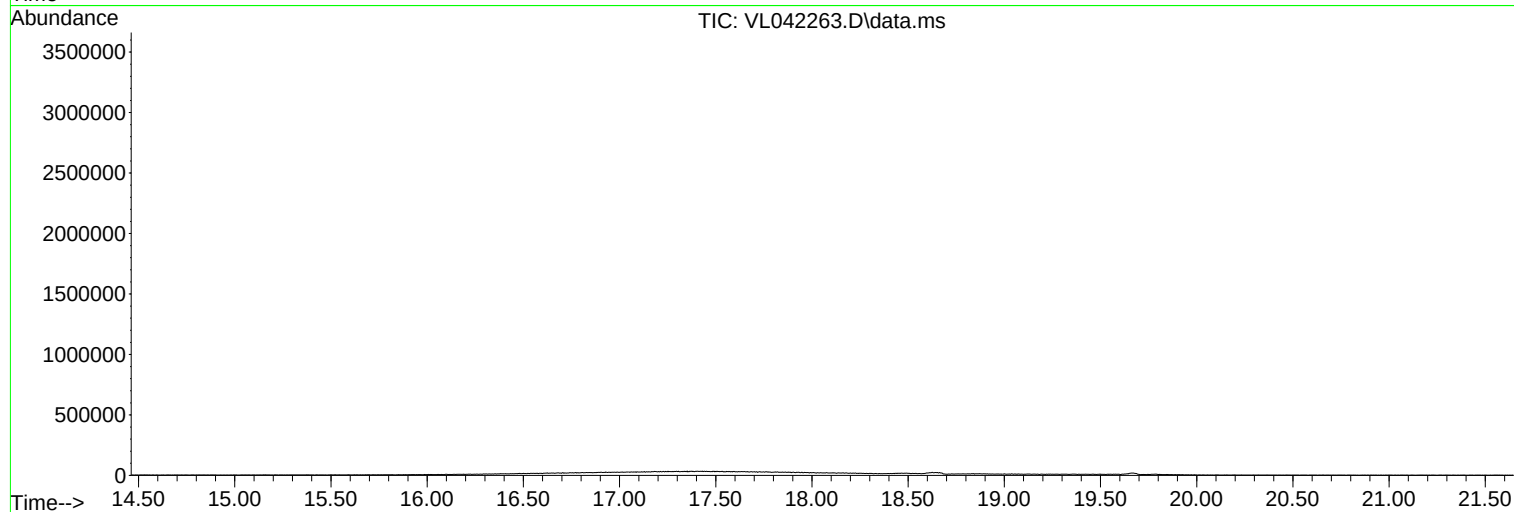
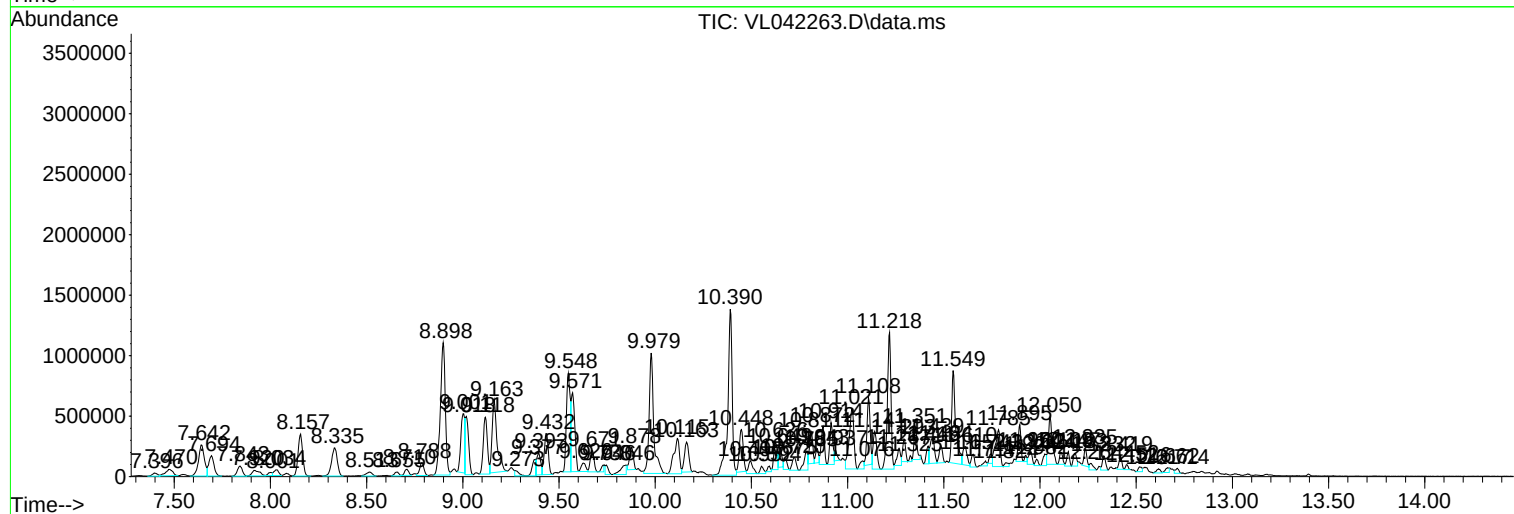
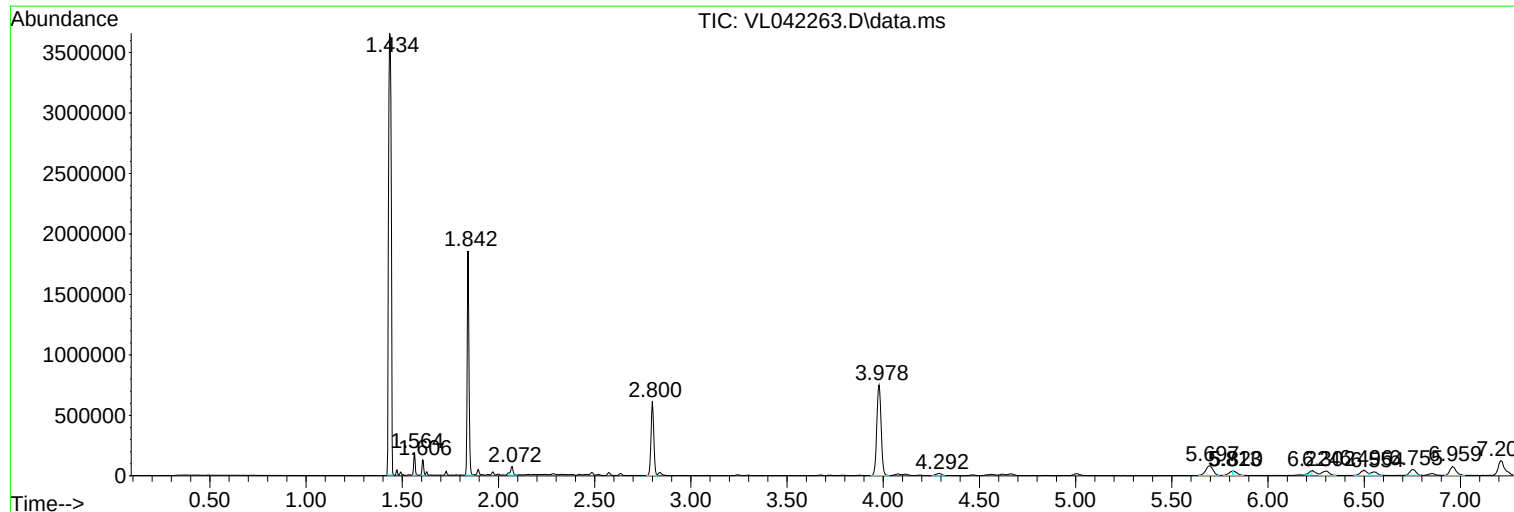
Sum of corrected areas: 36771648

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042263.D
Acq On : 08 Apr 2025 14:53
Operator : SY/MD
Sample : Q1728-08 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025

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 : VL042263.D
Acq On : 08 Apr 2025 14:53
Operator : SY/MD
Sample : Q1728-08 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025

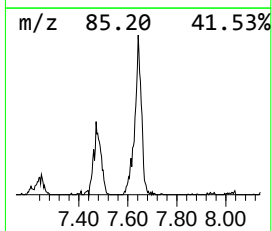
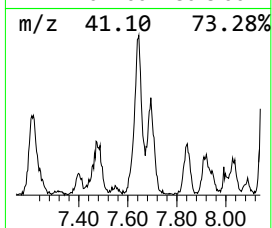
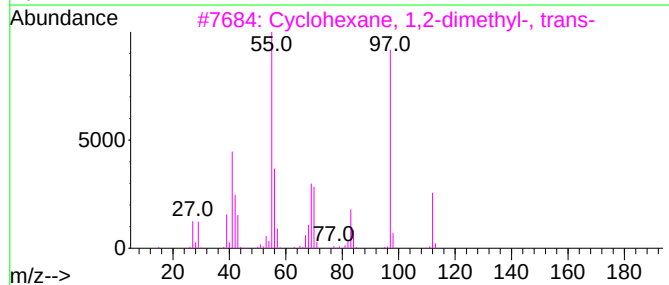
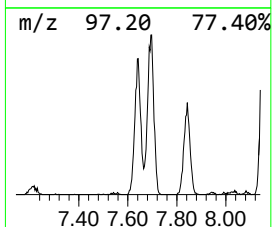
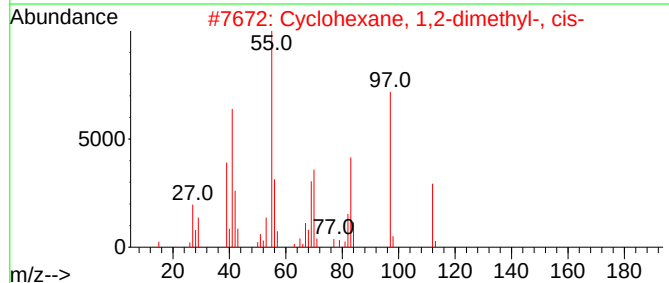
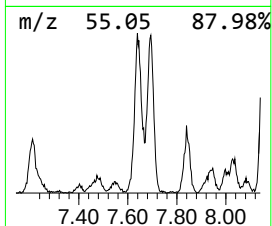
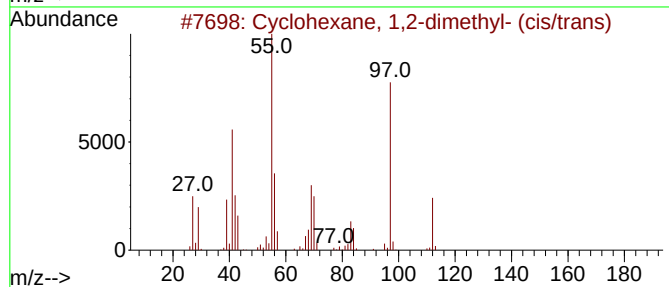
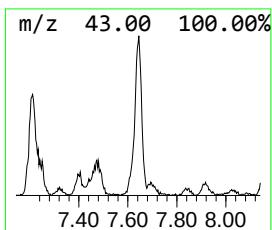
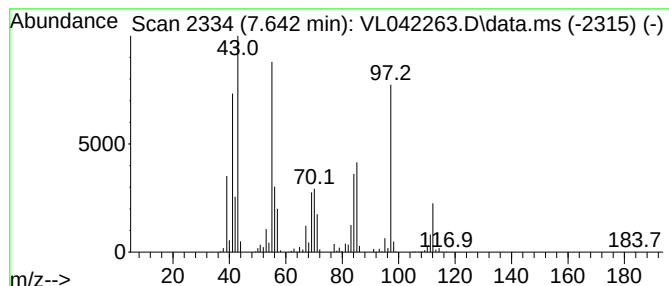
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 2 Cyclohexane, 1,2-dimethyl- ... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.642	2.84 ppbv	555810	Chlorobenzene-d5	8.898

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	76
2		Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	76
3		Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	76
4		Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	70
5		Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	70



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042263.D
Acq On : 08 Apr 2025 14:53
Operator : SY/MD
Sample : Q1728-08 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025

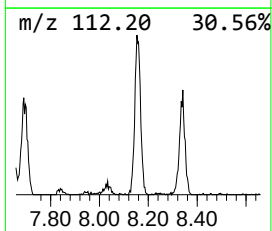
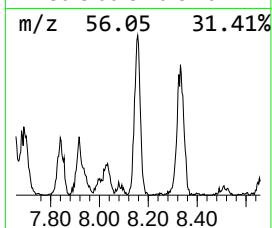
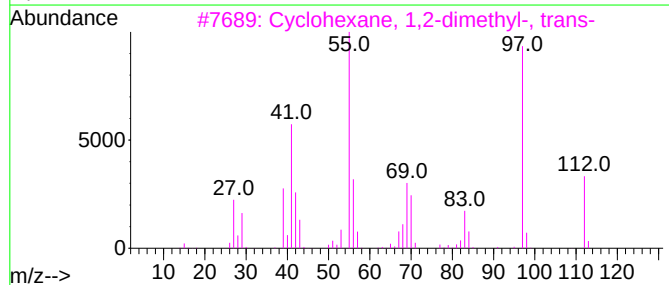
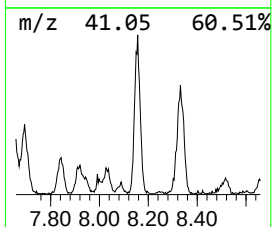
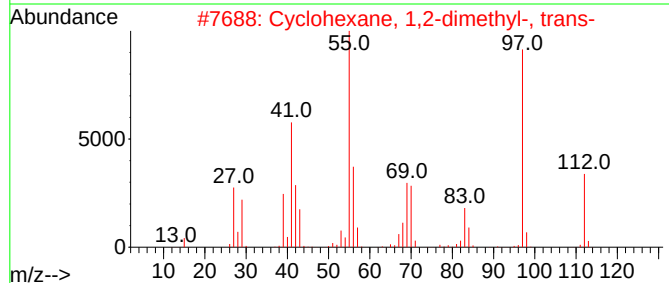
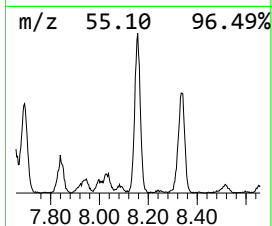
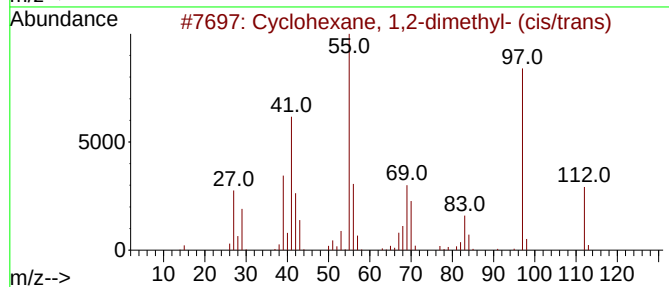
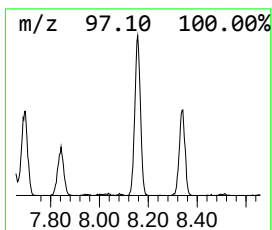
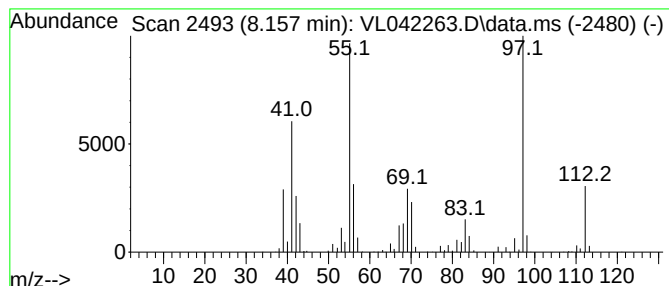
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 3 Cyclohexane, 1,2-dimethyl-,... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.157	2.97 ppbv	580721	Chlorobenzene-d5	8.898

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	96
2			Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
3			Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
4			Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	91
5			Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	90



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042263.D
Acq On : 08 Apr 2025 14:53
Operator : SY/MD
Sample : Q1728-08 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025

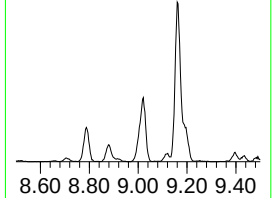
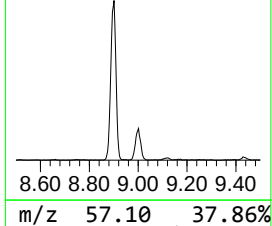
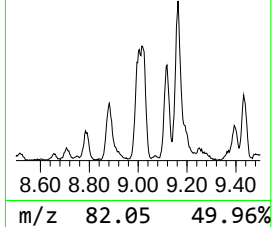
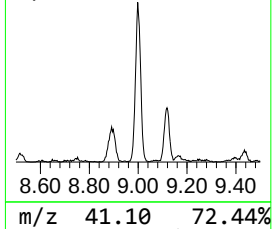
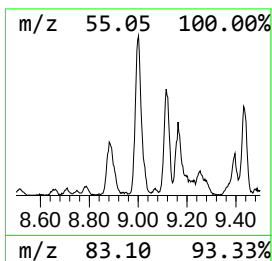
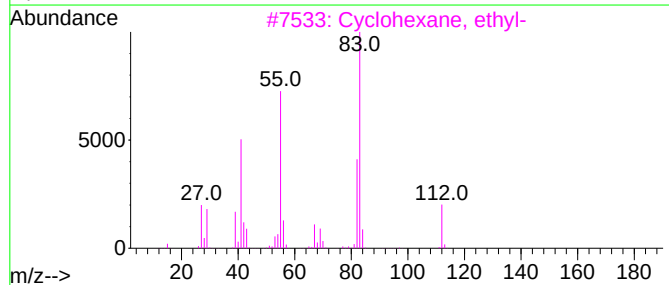
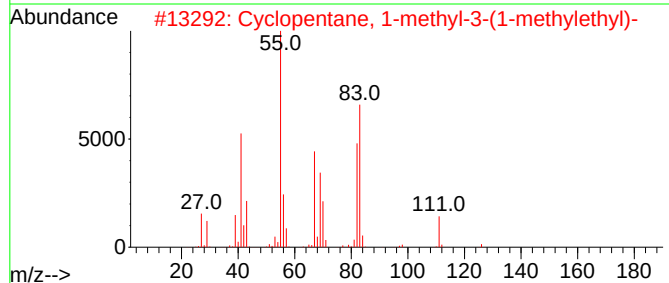
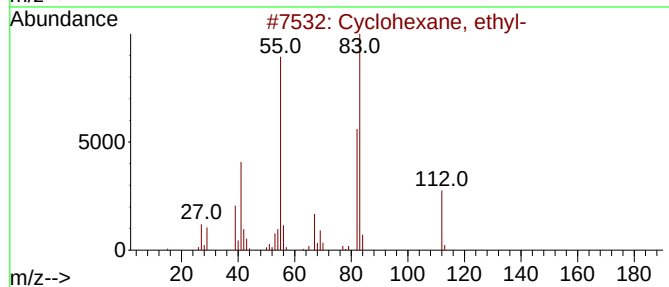
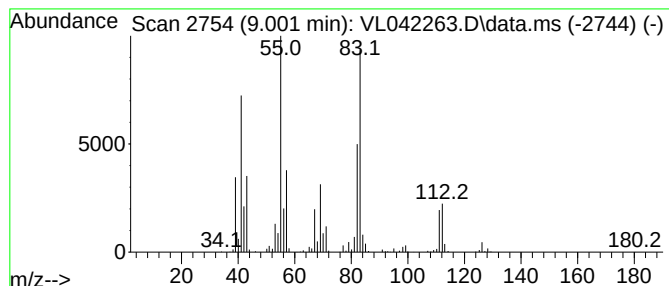
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 4 Cyclohexane, ethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.001	3.65 ppbv	714583	Chlorobenzene-d5	8.898

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclohexane, ethyl-	112	C8H16	001678-91-7	74
2			Cyclopentane, 1-methyl-3-(1-meth...	126	C9H18	053771-88-3	64
3			Cyclohexane, ethyl-	112	C8H16	001678-91-7	64
4			Cyclohexane, propyl-	126	C9H18	001678-92-8	58
5			Cyclohexane, octyl-	196	C14H28	001795-15-9	53



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042263.D
Acq On : 08 Apr 2025 14:53
Operator : SY/MD
Sample : Q1728-08 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025

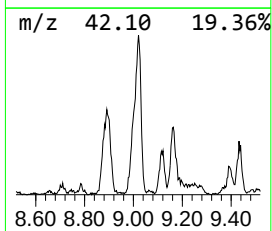
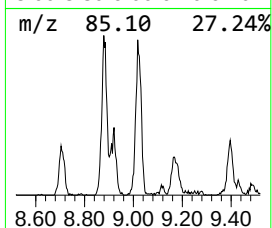
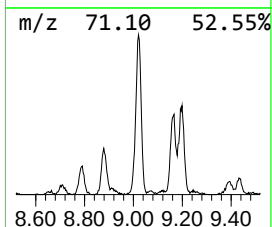
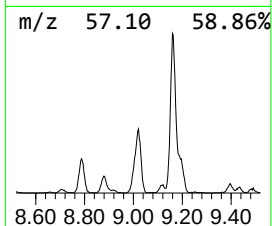
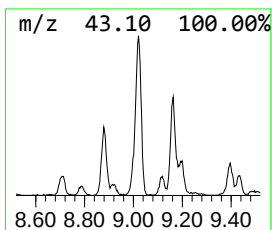
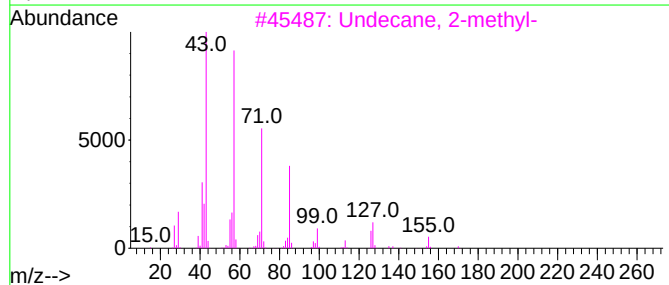
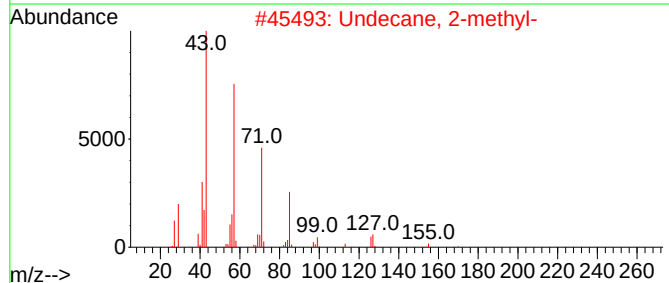
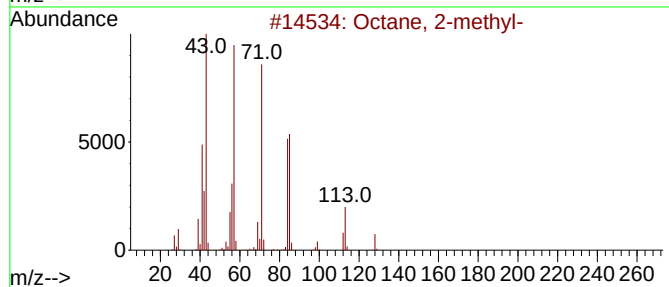
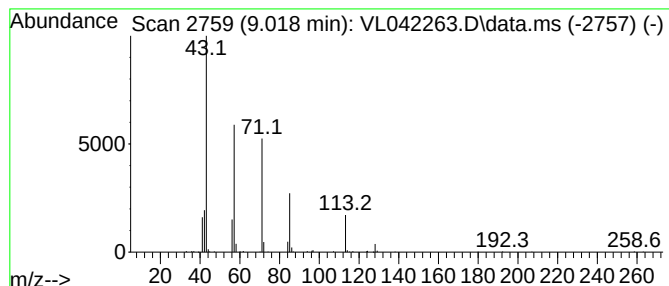
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 5 Octane, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD		R.T.
9.018	2.86 ppbv	559943	Chlorobenzene-d5		8.898

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2-methyl-		128	C9H20	003221-61-2	86
2	Undecane, 2-methyl-		170	C12H26	007045-71-8	72
3	Undecane, 2-methyl-		170	C12H26	007045-71-8	64
4	Octane, 6-ethyl-2-methyl-		156	C11H24	062016-19-7	59
5	Nonane, 2,6-dimethyl-		156	C11H24	017302-28-2	59



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042263.D
Acq On : 08 Apr 2025 14:53
Operator : SY/MD
Sample : Q1728-08 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025

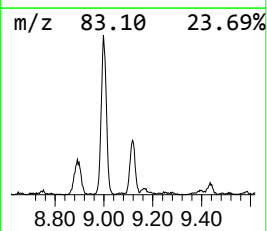
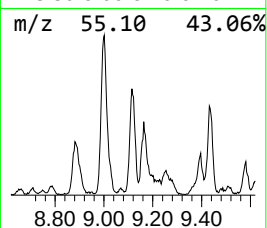
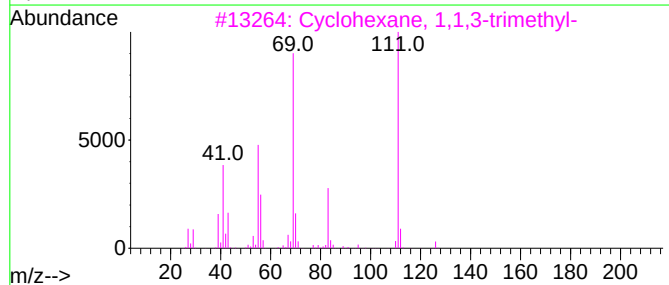
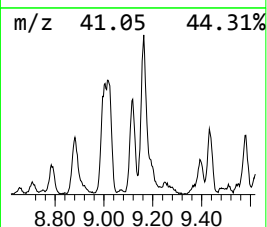
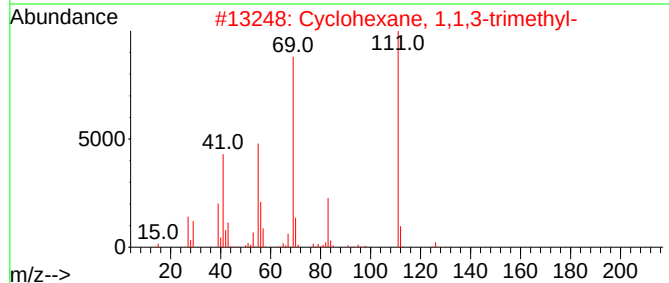
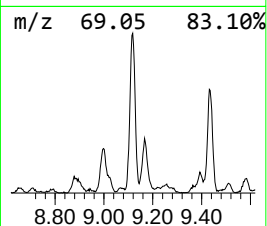
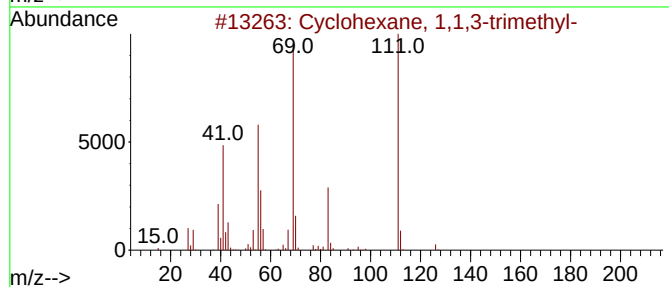
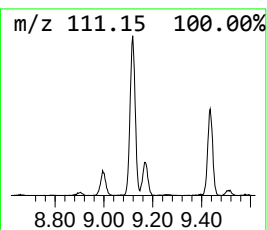
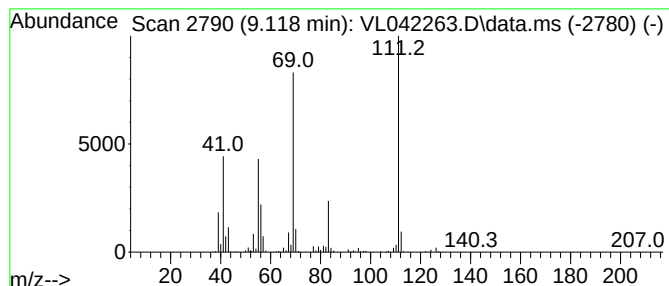
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 6 Cyclohexane, 1,1,3-trimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.118	3.65 ppbv	714963	Chlorobenzene-d5	8.898

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	93
2			Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	90
3			Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	74
4			Cyclohexane, 1,3,5-trimethyl-, (...)	126	C9H18	001795-27-3	72
5			Cyclohexane, 1,3,5-trimethyl-	126	C9H18	001839-63-0	72



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042263.D
Acq On : 08 Apr 2025 14:53
Operator : SY/MD
Sample : Q1728-08 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025

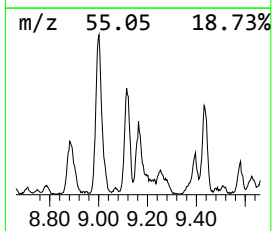
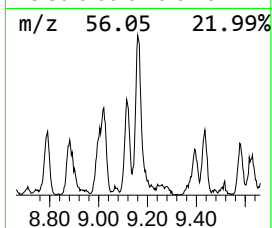
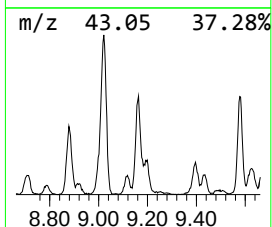
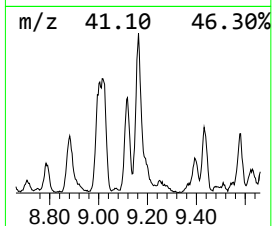
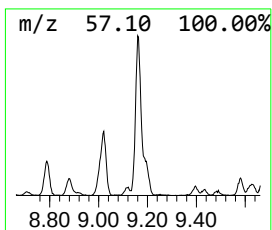
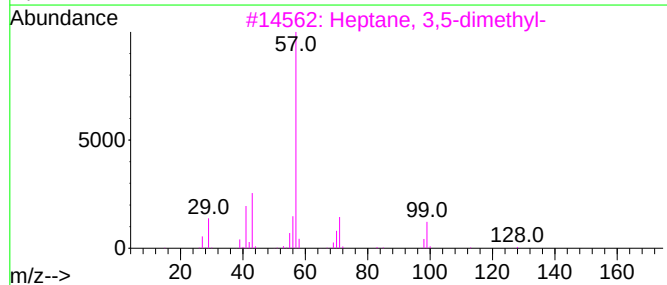
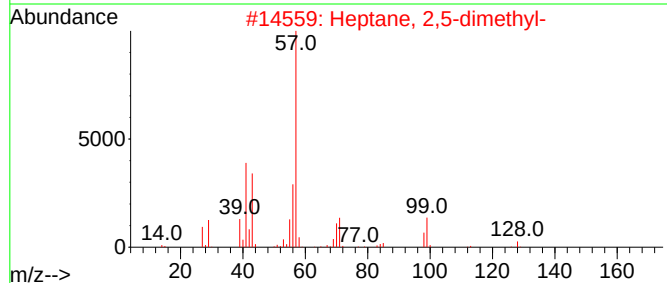
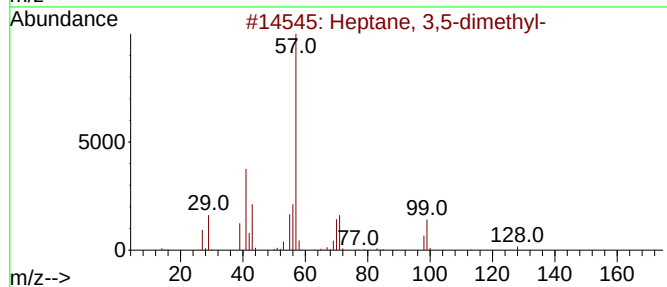
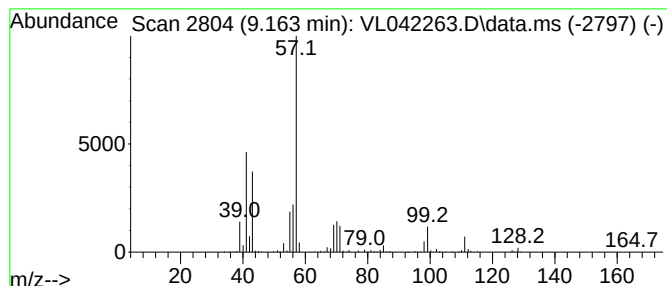
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 7 Heptane, 3,5-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.163	5.50 ppbv	1077000	Chlorobenzene-d5	8.898

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Heptane, 3,5-dimethyl-	128	C9H20	000926-82-9	87
2			Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	83
3			Heptane, 3,5-dimethyl-	128	C9H20	000926-82-9	80
4			Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	64
5			Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	59



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042263.D
Acq On : 08 Apr 2025 14:53
Operator : SY/MD
Sample : Q1728-08 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

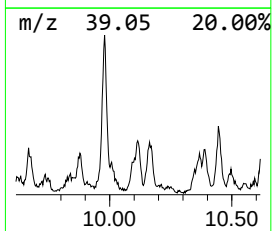
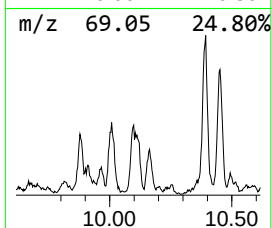
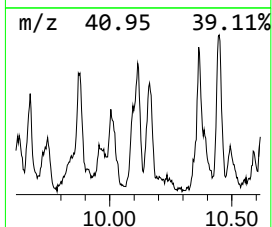
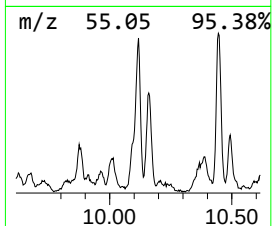
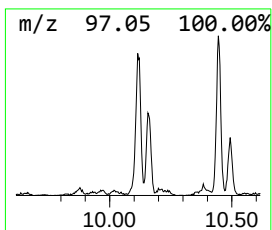
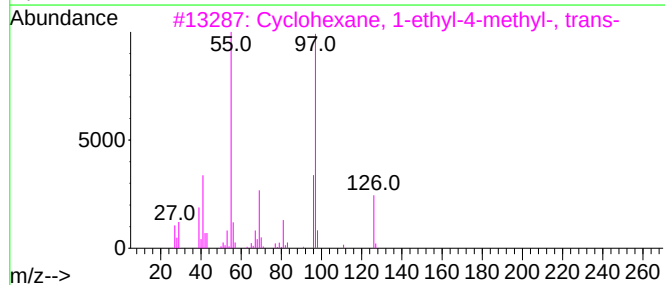
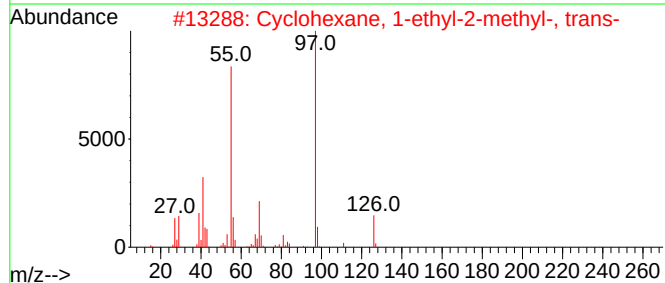
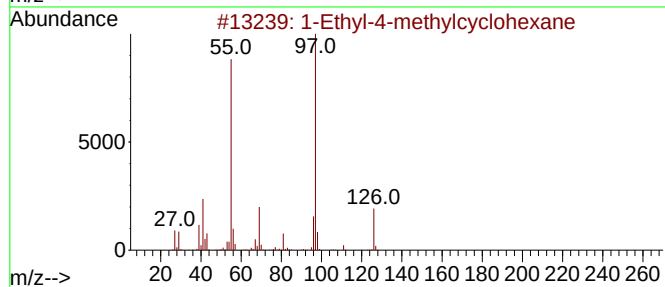
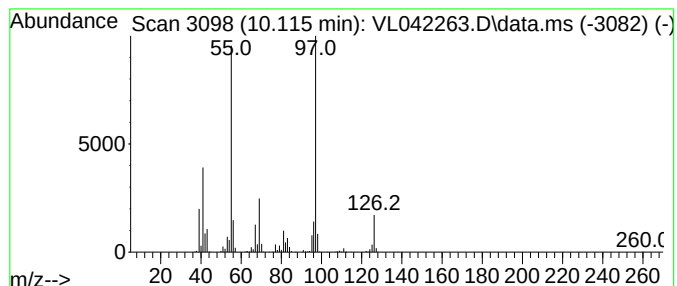
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ClientSampleId :
SSSG-B2-4-04022025

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 8 1-Ethyl-4-methylcyclohexane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.	
10.115	3.04 ppbv	594761	Chlorobenzene-d5	8.898	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Ethyl-4-methylcyclohexane	126	C9H18	003728-56-1	90
2	Cyclohexane, 1-ethyl-2-methyl-, ...	126	C9H18	004923-78-8	87
3	Cyclohexane, 1-ethyl-4-methyl-, ...	126	C9H18	006236-88-0	87
4	Cyclohexane, 1-ethyl-4-methyl-, ...	126	C9H18	004926-78-7	83
5	Cyclohexane, 1-ethyl-4-methyl-, ...	126	C9H18	004926-78-7	83



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042263.D
Acq On : 08 Apr 2025 14:53
Operator : SY/MD
Sample : Q1728-08 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025

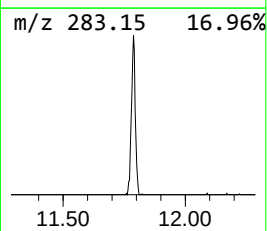
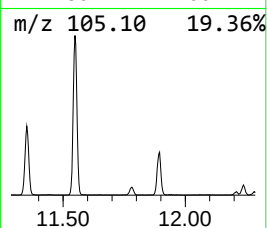
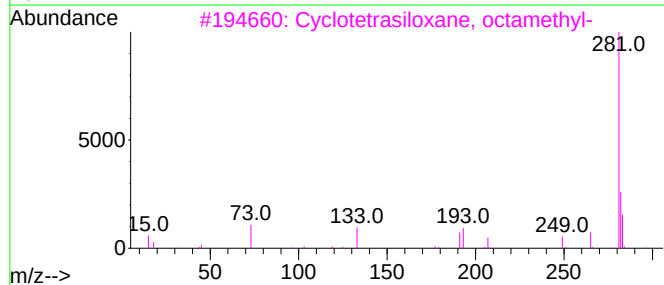
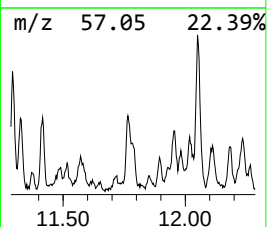
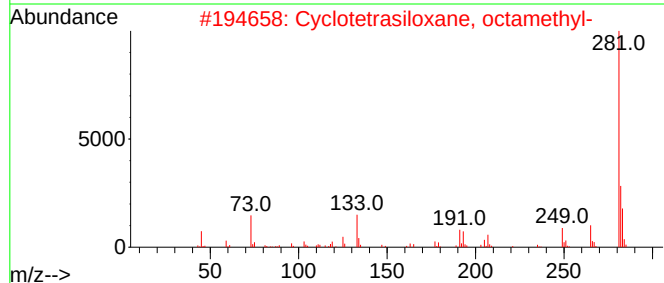
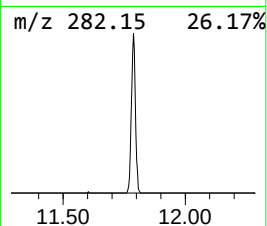
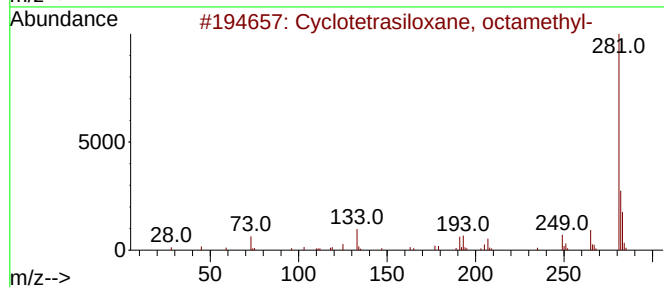
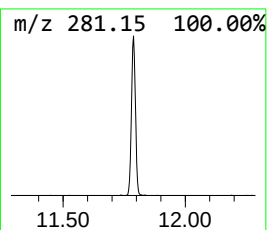
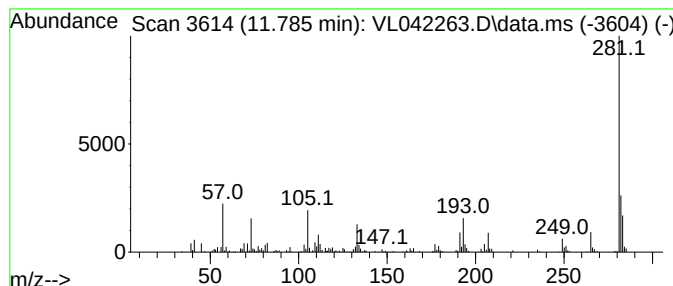
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 9 Cyclotetrasiloxane, octamet... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.785	2.76 ppbv	540394	Chlorobenzene-d5	8.898

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	83
2			Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	74
3			Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	72
4			Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	72
5			Benzofuran-6-ol-3-one, 2-(4-etho...	310	C18H14O5	1000128-64-6	53



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042263.D
Acq On : 08 Apr 2025 14:53
Operator : SY/MD
Sample : Q1728-08 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025

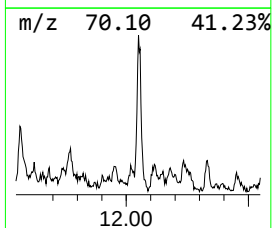
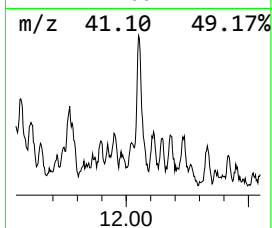
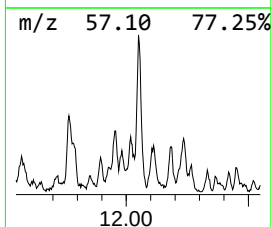
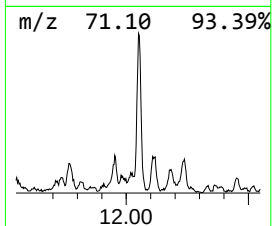
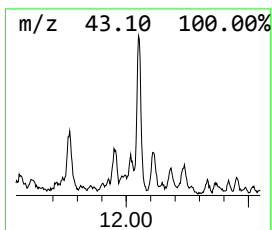
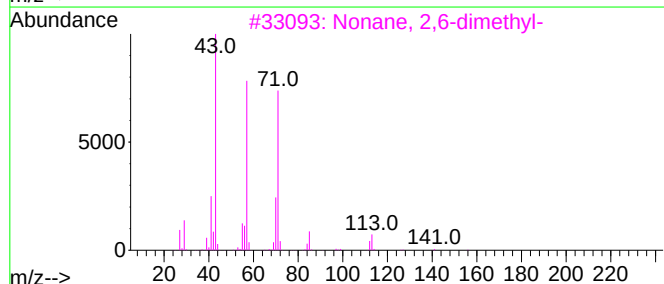
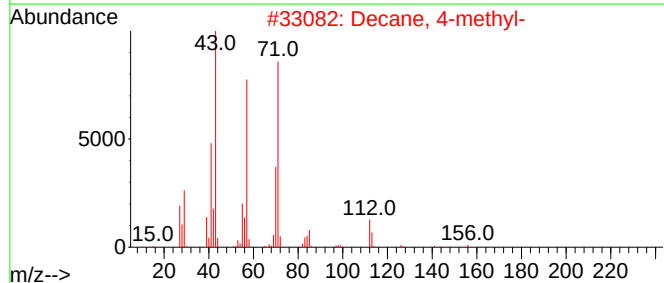
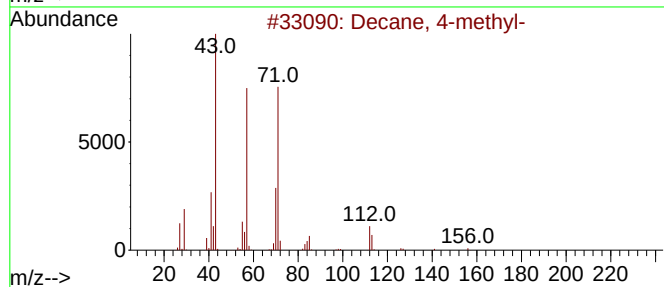
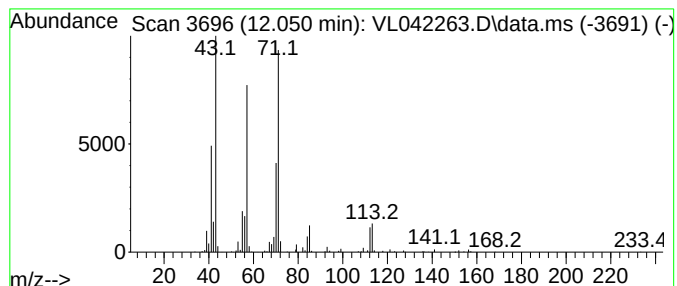
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 10 Decane, 4-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.050	2.81 ppbv	549293	Chlorobenzene-d5	8.898

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Decane, 4-methyl-	156	C11H24	002847-72-5	95
2			Decane, 4-methyl-	156	C11H24	002847-72-5	91
3			Nonane, 2,6-dimethyl-	156	C11H24	017302-28-2	87
4			Octane, 3,3-dimethyl-	142	C10H22	004110-44-5	78
5			Carbonic acid, neopentyl 2-ethyl...	244	C14H28O3	1000357-85-7	78



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042263.D
Acq On : 08 Apr 2025 14:53
Operator : SY/MD
Sample : Q1728-08 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025

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\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Cyclohexane, 1,...	7.642	2.8	ppbv	555810	3	8.898	1957940	10.0
Cyclohexane, 1,...	8.157	3.0	ppbv	580721	3	8.898	1957940	10.0
Cyclohexane, et...	9.001	3.6	ppbv	714583	3	8.898	1957940	10.0
Octane, 2-methyl-	9.018	2.9	ppbv	559943	3	8.898	1957940	10.0
Cyclohexane, 1,...	9.118	3.6	ppbv	714963	3	8.898	1957940	10.0
Heptane, 3,5-di...	9.163	5.5	ppbv	1077000	3	8.898	1957940	10.0
1-Ethyl-4-methy...	10.115	3.0	ppbv	594761	3	8.898	1957940	10.0
Cyclotetrasilox...	11.785	2.8	ppbv	540394	3	8.898	1957940	10.0
Decane, 4-methyl-	12.050	2.8	ppbv	549293	3	8.898	1957940	10.0

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/02/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B2-4-04022025DL	SDG No.:	Q1728
Lab Sample ID:	Q1728-08DL	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
VL042273.D	40		04/08/25 21:37	VL040825

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	380	903	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	17.7	61.5	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	4.90	14.4	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	7.30	27.5	JD	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:	04/02/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B2-4-04022025DL	SDG No.:	Q1728
Lab Sample ID:	Q1728-08DL	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
VL042273.D	40		04/08/25 21:37	VL040825

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	5.50	23.9	JD	20.9	86.9	ug/m3
179601-23-1	m/p-Xylene	79.4	345	D	36.5	174	ug/m3
95-47-6	o-Xylene	61.7	268	D	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	29.2	144	D	21.6	98.3	ug/m3
95-63-6	1,2,4-Trimethylbenzene	32.0	157	D	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	10.4	51.1	JD	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	9.50			70 (65) - 130 (135)	95%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	153000		2.793			
540-36-3	1,4-Difluorobenzene	379000		3.968			
3114-55-4	Chlorobenzene-d5	368000		8.888			

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/02/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B2-4-04022025DL	SDG No.:	Q1728
Lab Sample ID:	Q1728-08DL	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
VL042273.D	40		04/08/25 21:37	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 : VL042273.D
 Acq On : 08 Apr 2025 21:37
 Operator : SY/MD
 Sample : Q1728-08DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-4-04022025DL

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
 Supervised By :Semsettin Yesilyurt 04/10/2025

Quant Time: Apr 09 02:00:30 2025

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

Quant Title : AIR ANALYSIS BY METHOD TO-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	2.793	49	152932	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	379227	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.888	117	368372	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	288158	9.526	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.300%
Target Compounds						
					Qvalue	
13) Ethanol	1.722	45	2775	2.776	ppbv #	27
15) Acetone	1.839	43	200607	9.379	ppbv	94
19) Isopropyl Alcohol	1.890	45	5026	0.416	ppbv #	1
20) Methylene Chloride	2.065	84	3517	0.442	ppbv #	78
34) 2-Butanone	2.570	43	3390	0.123	ppbv	98
53) Toluene	6.943	91	8155	0.183	ppbv	99
58) Ethyl Benzene	9.364	91	9053m	0.138	ppbv	
59) m/p-Xylene	9.539	91	103784m	1.986	ppbv	
60) o-Xylene	9.972	91	80843	1.543	ppbv	98
72) 4-Ethyltoluene	11.131	105	16952	0.260	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.212	105	41500	0.729	ppbv	97
74) 1,2,4-Trimethylbenzene	11.542	105	52472	0.800	ppbv #	64

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

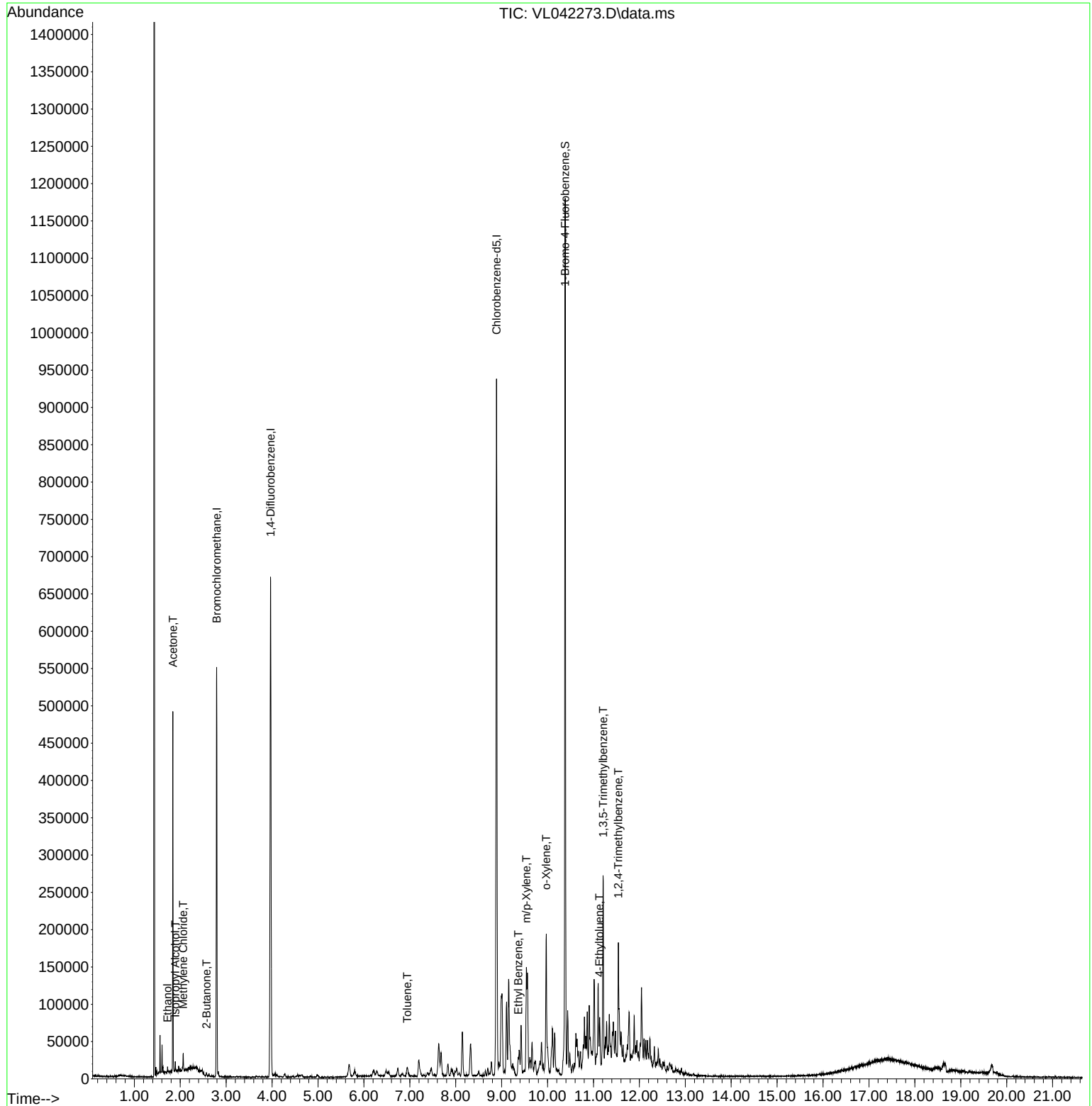
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Data File : VL042273.D
Acq On : 08 Apr 2025 21:37
Operator : SY/MD
Sample : Q1728-08DL 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

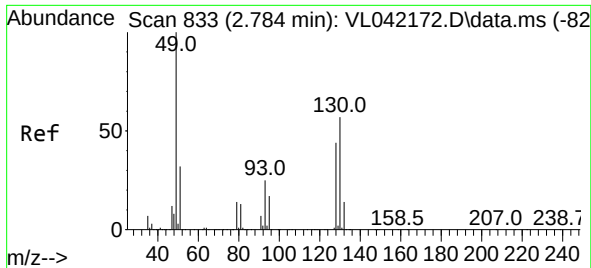
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025DL

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

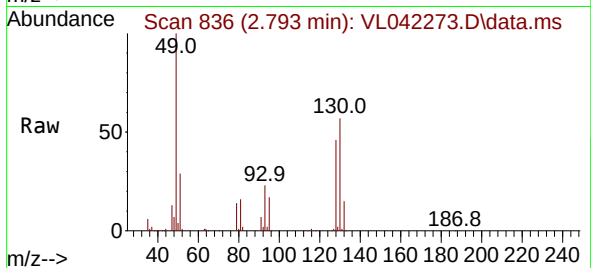
Quant Time: Apr 09 02:00:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

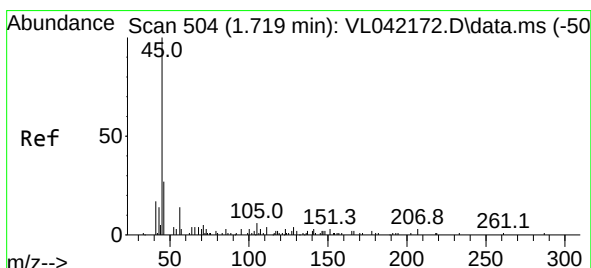
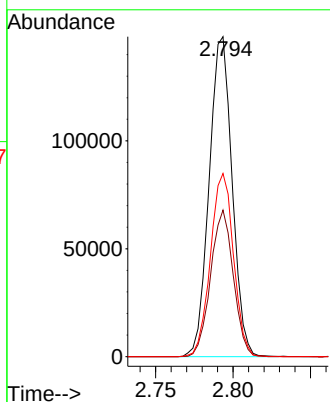
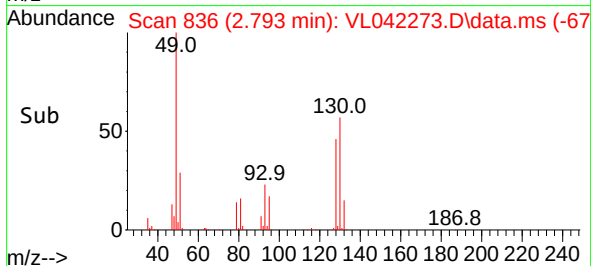
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025DL



Tgt Ion: 49 Resp: 15293
Ion Ratio Lower Upper
49 100
128 45.3 22.9 68.5
130 57.5 28.8 86.4

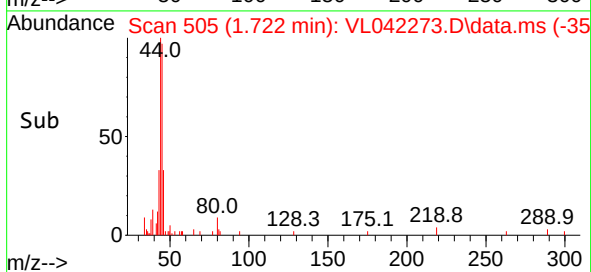
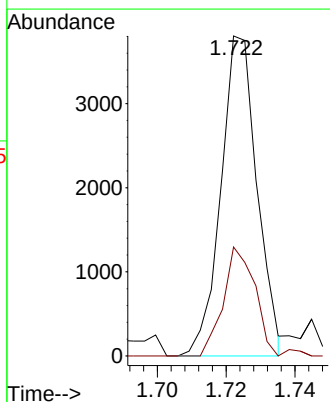
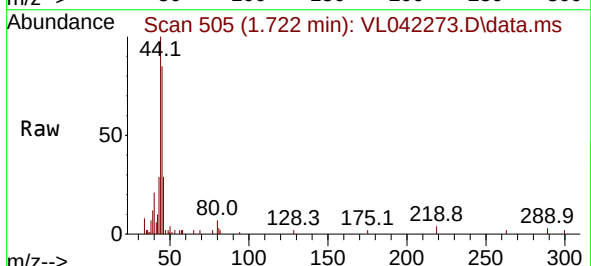
Manual Integrations
APPROVED

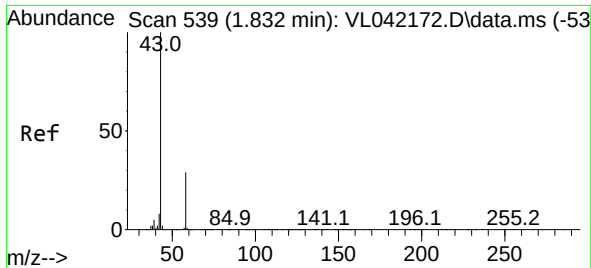
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#13
Ethanol
Concen: 2.776 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

Tgt Ion: 45 Resp: 2775
Ion Ratio Lower Upper
45 100
46 0.0 20.2 80.8#





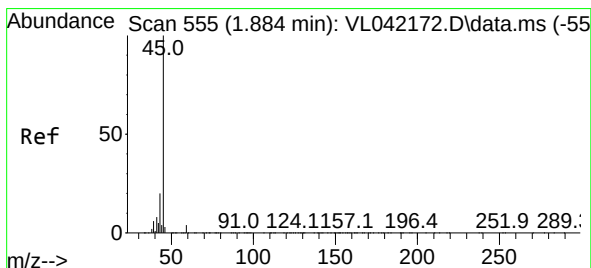
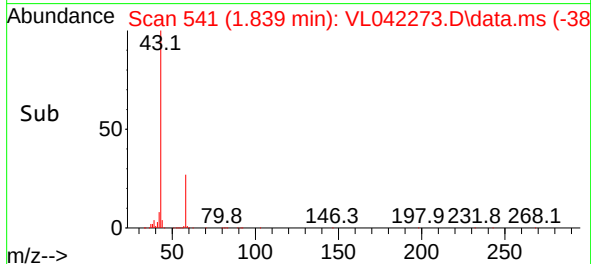
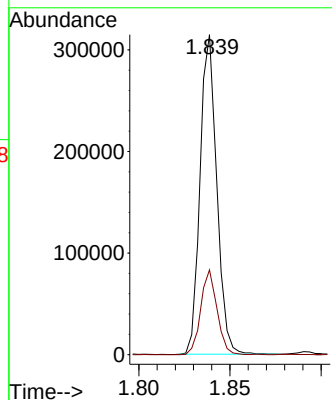
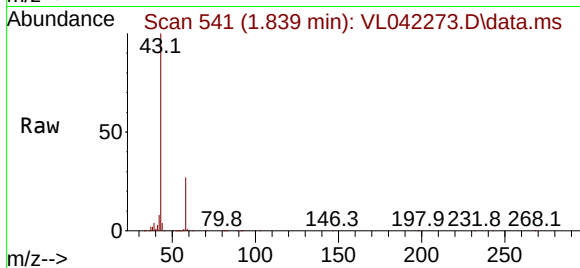
#15
Acetone
Concen: 9.379 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025DL

Tgt Ion: 43 Resp: 20060
Ion Ratio Lower Upper
43 100
58 25.9 23.2 34.8

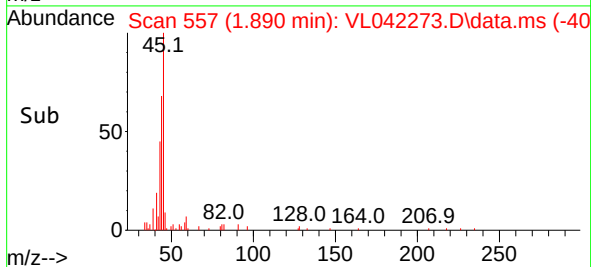
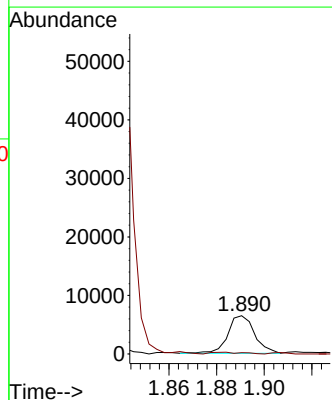
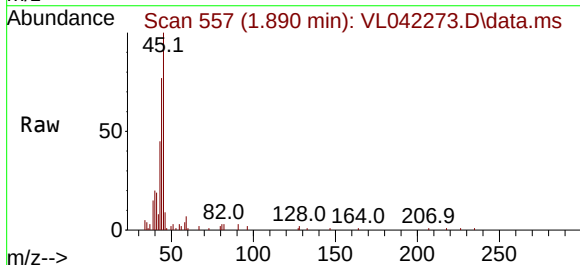
Manual Integrations
APPROVED

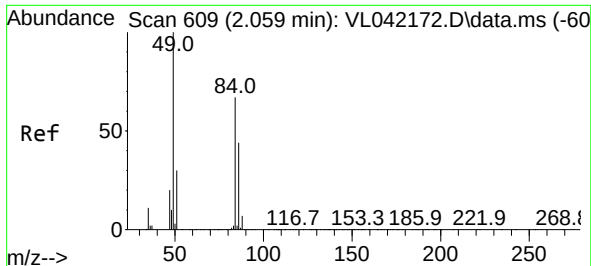
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#19
Isopropyl Alcohol
Concen: 0.416 ppbv
RT: 1.890 min Scan# 557
Delta R.T. 0.006 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

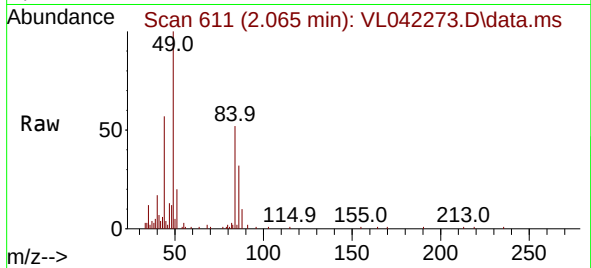
Tgt Ion: 45 Resp: 5026
Ion Ratio Lower Upper
45 100
58 1031.6 36.9 55.3#





#20
Methylene Chloride
Concen: 0.442 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

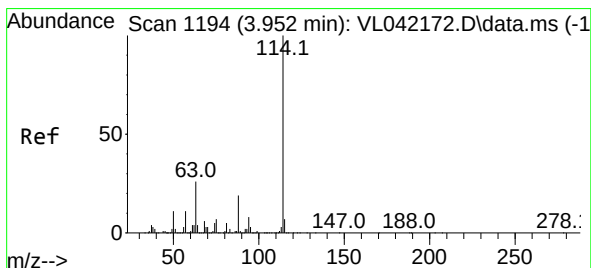
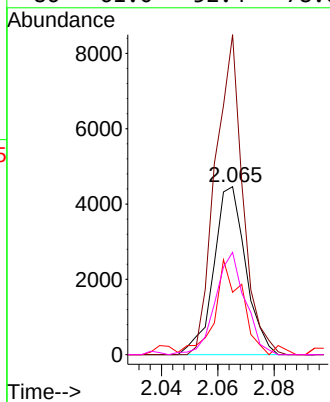
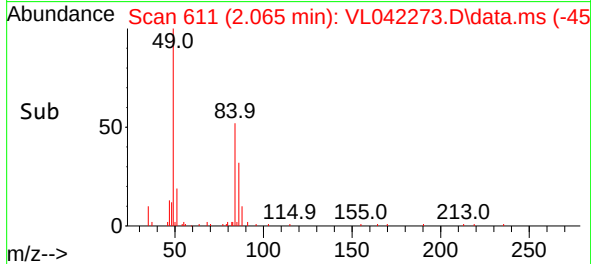
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025DL



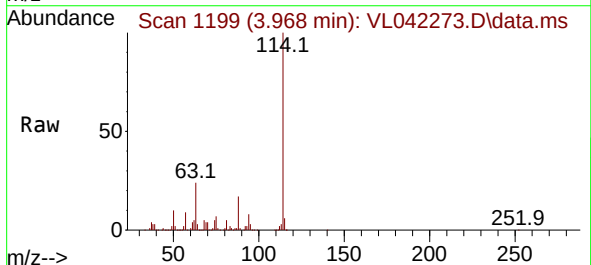
Tgt Ion: 84 Resp: 351
Ion Ratio Lower Upper
84 100
49 190.6 120.2 180.4
51 35.9 37.4 56.0
86 61.0 52.4 78.6

Manual Integrations
APPROVED

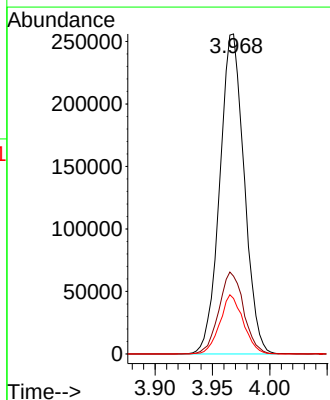
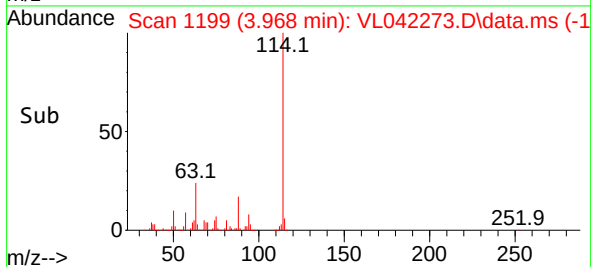
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

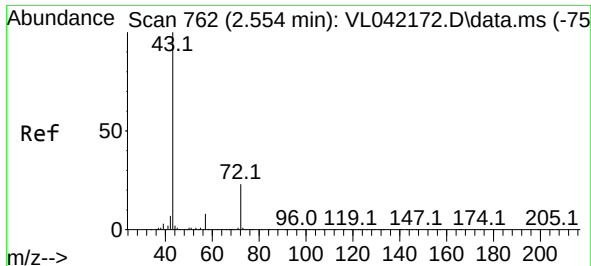


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. 0.016 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37



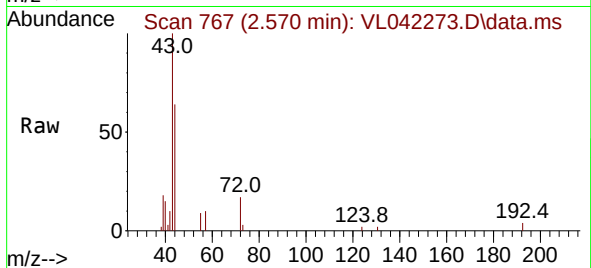
Tgt Ion:114 Resp: 379227
Ion Ratio Lower Upper
114 100
63 26.0 20.7 31.1
88 17.7 15.0 22.4





#34
2-Butanone
Concen: 0.123 ppbv
RT: 2.570 min Scan# 70
Delta R.T. 0.016 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

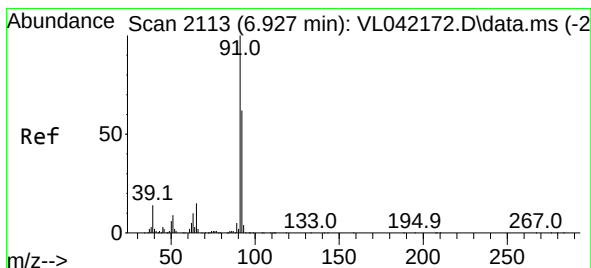
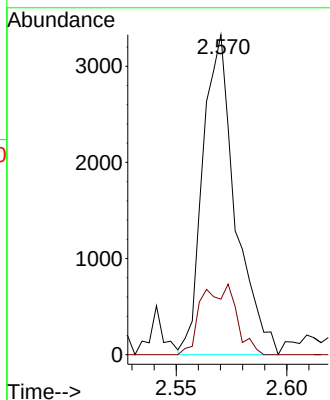
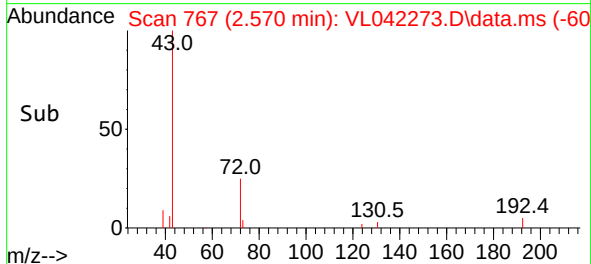
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025DL



Tgt Ion: 43 Resp: 3390
Ion Ratio Lower Upper
43 100
72 23.7 18.2 27.2

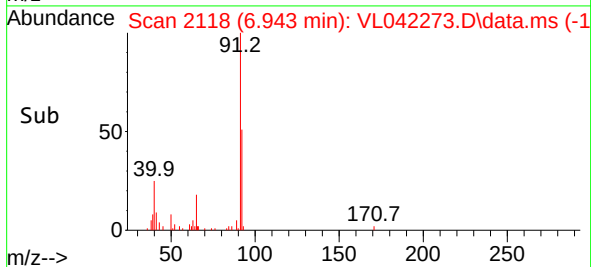
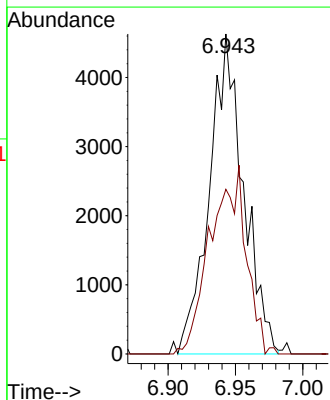
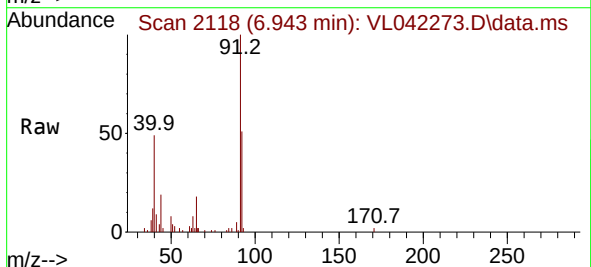
Manual Integrations
APPROVED

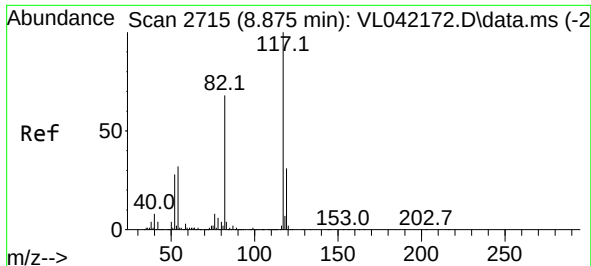
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#53
Toluene
Concen: 0.183 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.016 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

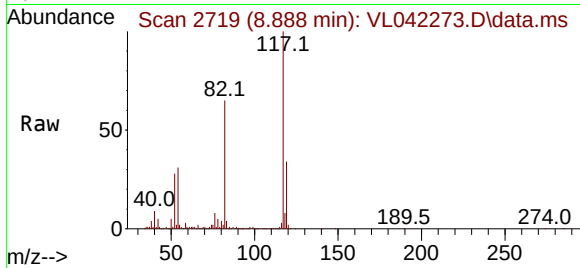
Tgt Ion: 91 Resp: 8155
Ion Ratio Lower Upper
91 100
92 61.1 48.4 72.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

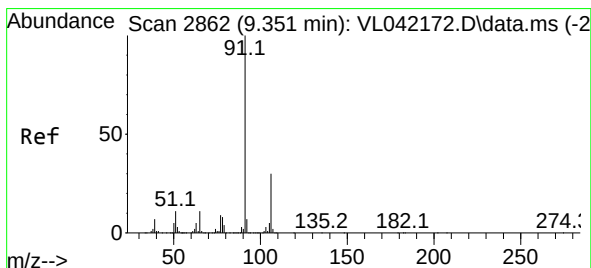
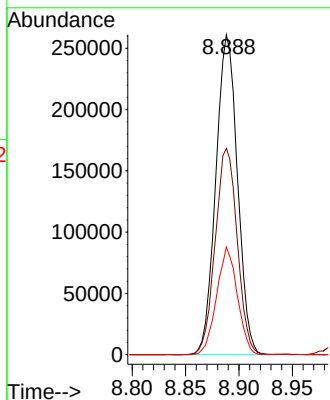
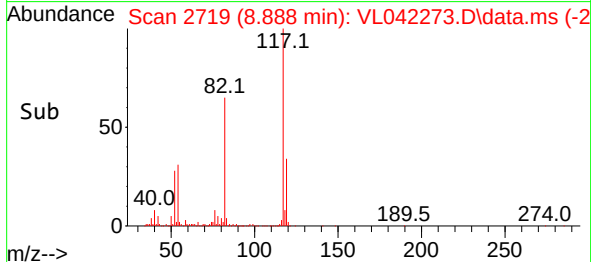
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025DL



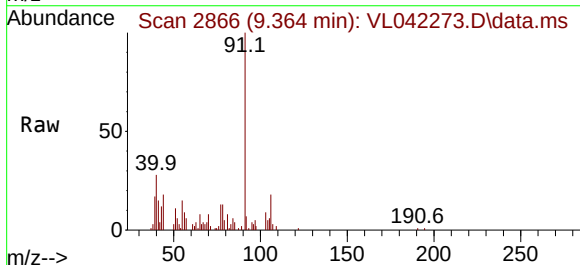
Tgt Ion:117 Resp: 368372
Ion Ratio Lower Upper
117 100
82 65.6 55.8 83.6
119 32.2 25.5 38.3

Manual Integrations
APPROVED

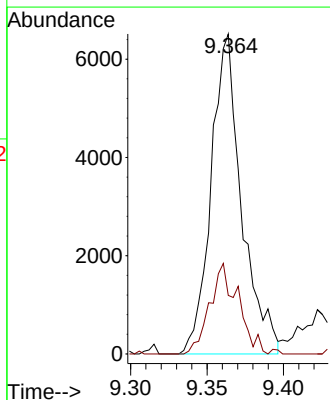
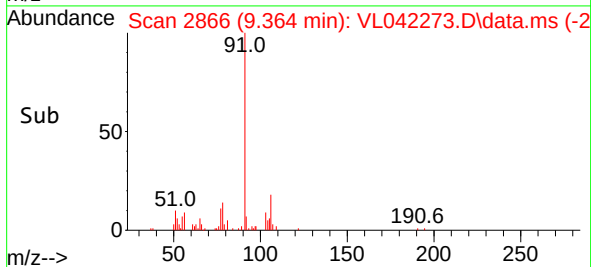
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

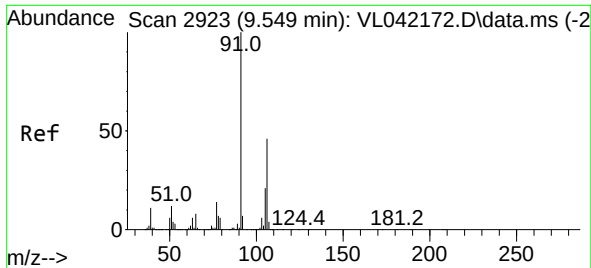


#58
Ethyl Benzene
Concen: 0.138 ppbv m
RT: 9.364 min Scan# 2866
Delta R.T. 0.013 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37



Tgt Ion: 91 Resp: 9053
Ion Ratio Lower Upper
91 100
106 18.3 24.2 36.2#





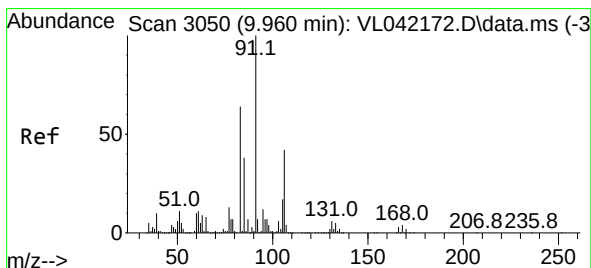
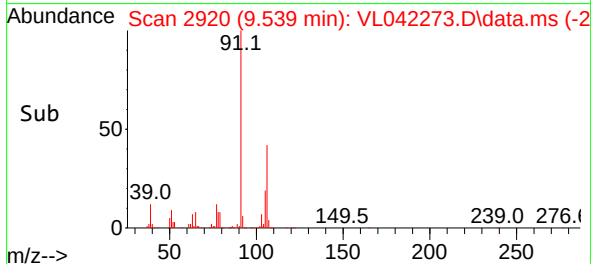
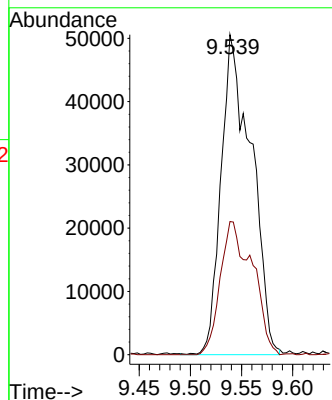
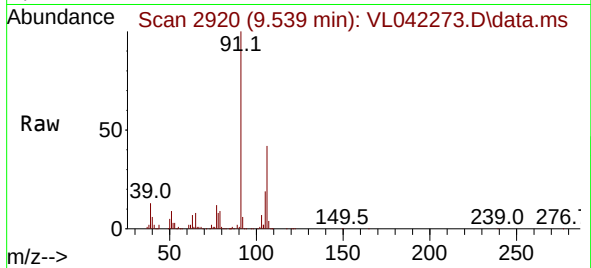
#59
m/p-Xylene
Concen: 1.986 ppbv m
RT: 9.539 min Scan# 2923
Delta R.T. -0.010 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025DL

Tgt Ion: 91 Resp: 103784
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6

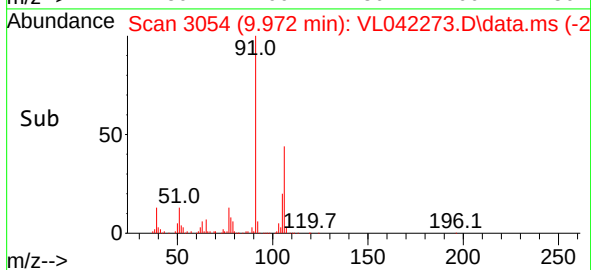
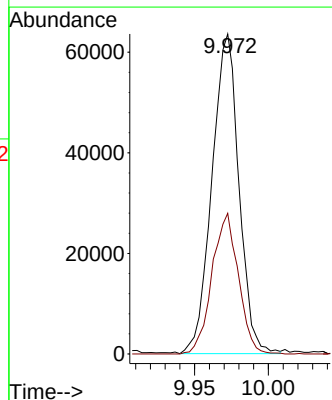
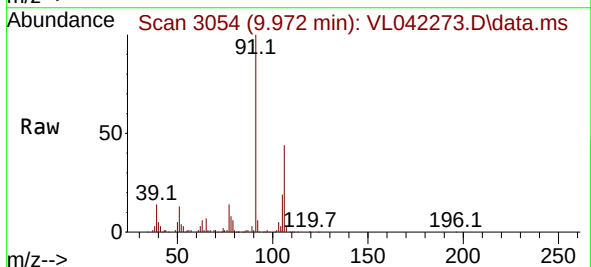
Manual Integrations
APPROVED

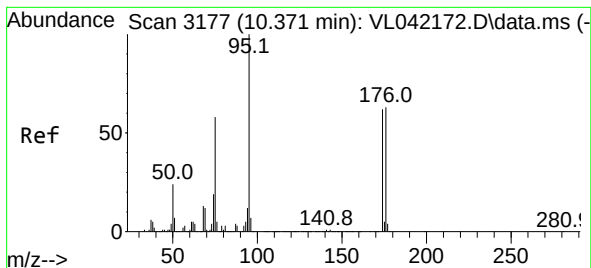
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#60
o-Xylene
Concen: 1.543 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.013 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

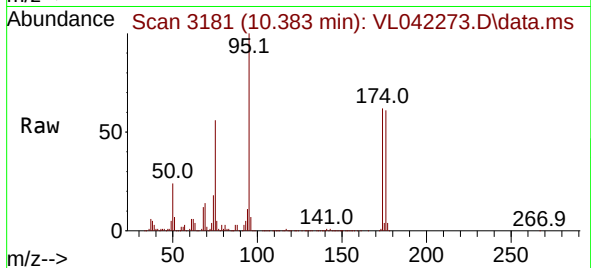
Tgt Ion: 91 Resp: 80843
Ion Ratio Lower Upper
91 100
106 43.1 20.8 62.5





#68
1-Bromo-4-Fluorobenzene
Concen: 9.526 ppbv
RT: 10.383 min Scan# 3177
Delta R.T. 0.013 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

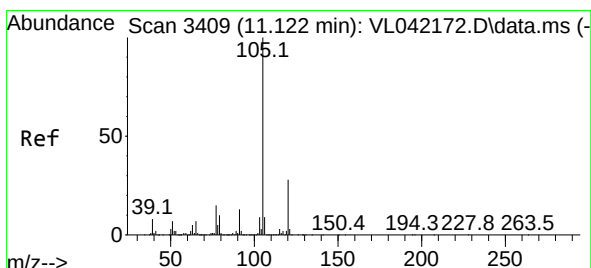
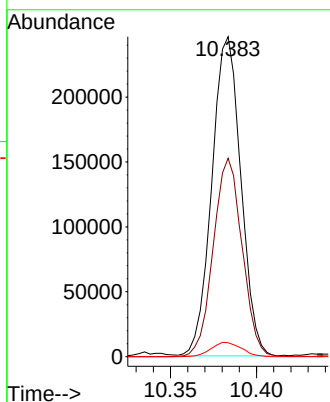
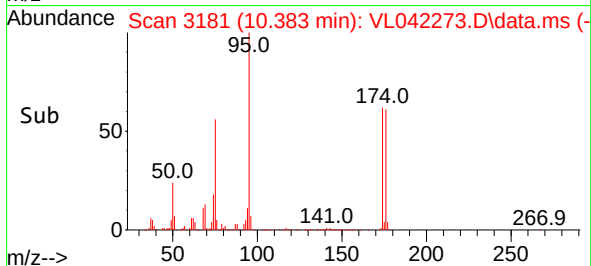
Instrument : MSVOA_L
ClientSampleId : SSSG-B2-4-04022025DL



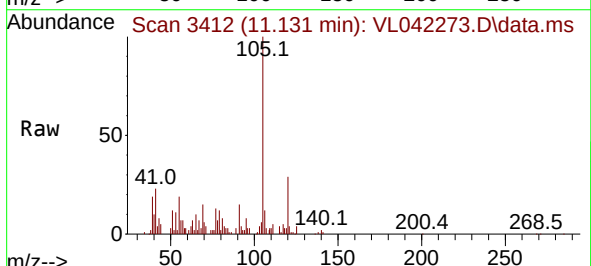
Tgt Ion: 95 Resp: 288158
Ion Ratio Lower Upper
95 100
174 61.8 50.6 76.0
175 4.7 3.8 5.6

Manual Integrations
APPROVED

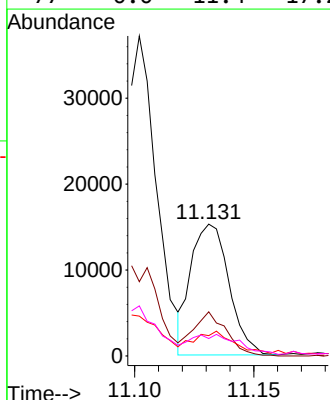
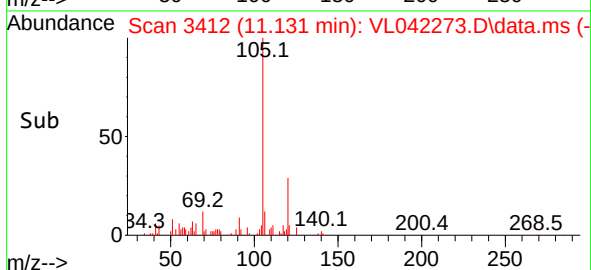
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

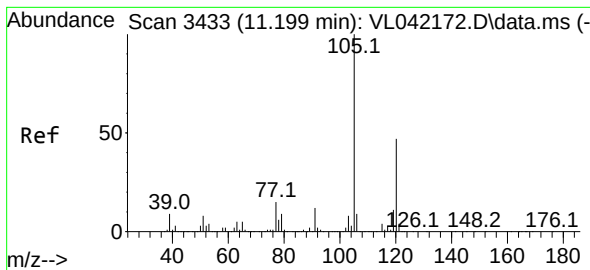


#72
4-Ethyltoluene
Concen: 0.260 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.010 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37



Tgt Ion:105 Resp: 16952
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: 0.729 ppbv

RT: 11.212 min Scan# 3433

Delta R.T. 0.013 min

Lab File: VL042273.D

Acq: 08 Apr 2025 21:37

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-4-04022025DL

Tgt Ion:105 Resp: 41500

Ion Ratio Lower Upper

105 100

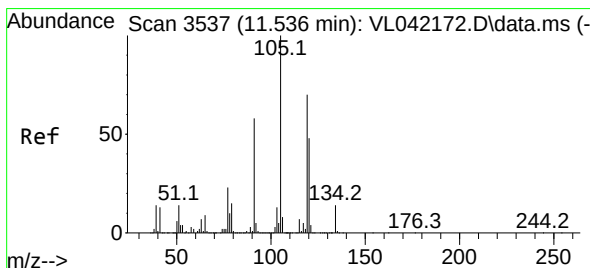
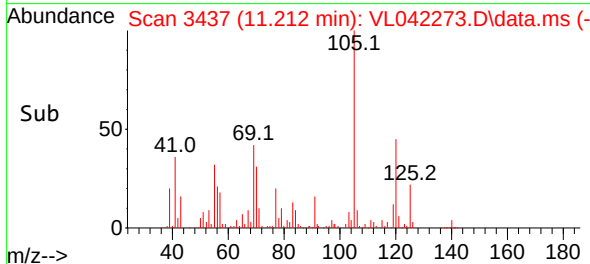
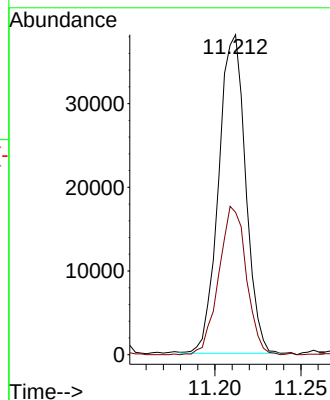
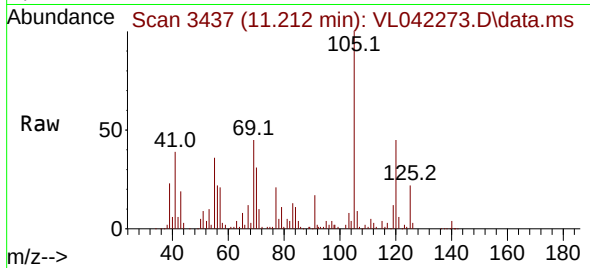
120 44.7 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025

Supervised By :Semsettin Yesilyurt 04/10/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.800 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.006 min

Lab File: VL042273.D

Acq: 08 Apr 2025 21:37

Tgt Ion:105 Resp: 52472

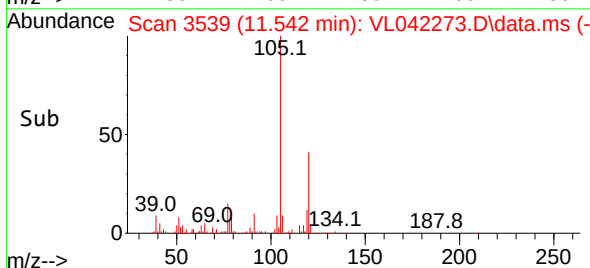
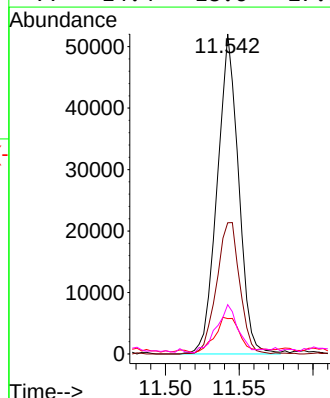
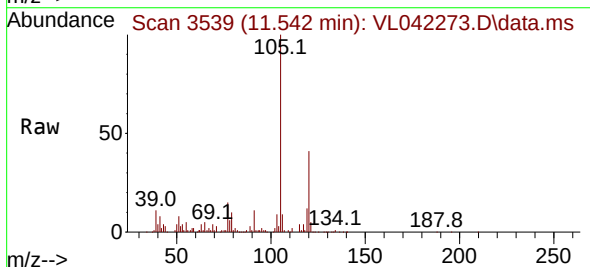
Ion Ratio Lower Upper

105 100

120 41.0 38.6 58.0

91 9.8 46.2 69.2#

77 14.4 18.6 27.8#



Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/02/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B2-1-04022025	SDG No.:	Q1728
Lab Sample ID:	Q1728-09	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
VL042266.D	10		04/08/25 16:27	VL040825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.10	10.4	U	10.4	24.7	ug/m3
74-87-3	Chloromethane	0.98	2.02	U	2.02	10.3	ug/m3
75-01-4	Vinyl Chloride	0.14	0.36	U	0.36	0.77	ug/m3
74-83-9	Bromomethane	1.40	5.44	U	5.44	19.4	ug/m3
75-00-3	Chloroethane	1.70	4.49	U	4.49	13.2	ug/m3
109-99-9	Tetrahydrofuran	1.30	3.83	U	3.83	14.8	ug/m3
75-69-4	Trichlorofluoromethane	1.60	8.99	U	8.99	28.1	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	1.60	12.3	U	12.3	38.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.88	6.15	U	6.15	35.0	ug/m3
75-65-0	tert-Butyl alcohol	1.90	5.76	U	5.76	15.2	ug/m3
142-82-5	Heptane	1.10	4.51	U	4.51	20.5	ug/m3
75-35-4	1,1-Dichloroethene	1.40	5.55	U	5.55	19.8	ug/m3
67-64-1	Acetone	21.5	51.1		5.70	11.9	ug/m3
75-15-0	Carbon Disulfide	1.60	4.98	U	4.98	15.6	ug/m3
1634-04-4	Methyl tert-Butyl Ether	1.20	4.33	U	4.33	18.0	ug/m3
75-09-2	Methylene Chloride	2.50	8.69	J	6.60	17.4	ug/m3
156-60-5	trans-1,2-Dichloroethene	1.90	7.53	U	7.53	19.8	ug/m3
75-34-3	1,1-Dichloroethane	1.30	5.26	U	5.26	20.2	ug/m3
110-82-7	Cyclohexane	2.20	7.57	U	7.57	17.2	ug/m3
78-93-3	2-Butanone	1.30	3.83	J	3.54	14.8	ug/m3
56-23-5	Carbon Tetrachloride	0.11	0.69	U	0.69	1.89	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.89	3.53	U	3.53	19.8	ug/m3
67-66-3	Chloroform	3.50	17.1	J	4.05	24.4	ug/m3
71-55-6	1,1,1-Trichloroethane	0.10	0.55	U	0.55	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	1.00	4.67	U	4.67	23.4	ug/m3
71-43-2	Benzene	0.87	2.78	U	2.78	16.0	ug/m3
107-06-2	1,2-Dichloroethane	0.91	3.68	U	3.68	20.2	ug/m3
79-01-6	Trichloroethene	0.17	0.91	U	0.91	1.61	ug/m3
78-87-5	1,2-Dichloropropane	1.10	5.08	U	5.08	23.1	ug/m3
75-27-4	Bromodichloromethane	0.77	5.16	U	5.16	33.5	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.93	3.81	U	3.81	20.5	ug/m3
108-88-3	Toluene	4.30	16.2	J	4.15	18.8	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.60	2.72	U	2.72	22.7	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.64	2.91	U	2.91	22.7	ug/m3
79-00-5	1,1,2-Trichloroethane	0.71	3.87	U	3.87	27.3	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/02/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B2-1-04022025	SDG No.:	Q1728
Lab Sample ID:	Q1728-09	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
VL042266.D	10		04/08/25 16:27	VL040825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.66	5.62	U	5.62	42.6	ug/m3
106-93-4	1,2-Dibromoethane	0.72	5.53	U	5.53	7.69	ug/m3
127-18-4	Tetrachloroethene	0.15	1.02	U	1.02	2.03	ug/m3
108-90-7	Chlorobenzene	0.76	3.50	U	3.50	23.0	ug/m3
100-41-4	Ethyl Benzene	5.50	23.9		5.21	21.7	ug/m3
179601-23-1	m/p-Xylene	89.0	387		9.12	43.4	ug/m3
95-47-6	o-Xylene	72.9	317		5.21	21.7	ug/m3
100-42-5	Styrene	1.10	4.68	U	4.68	21.3	ug/m3
75-25-2	Bromoform	0.57	5.89	U	5.89	51.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.11	0.76	U	0.76	2.06	ug/m3
95-49-8	2-Chlorotoluene	1.10	5.70	U	5.70	25.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	67.3	331		5.41	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	98.6	485		3.83	24.6	ug/m3
541-73-1	1,3-Dichlorobenzene	0.80	4.81	U	4.81	30.1	ug/m3
106-46-7	1,4-Dichlorobenzene	0.53	3.19	U	3.19	30.1	ug/m3
95-50-1	1,2-Dichlorobenzene	0.75	4.51	U	4.51	30.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.85	6.31	U	6.31	37.1	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.85	9.07	U	9.07	53.3	ug/m3
106-99-0	1,3-Butadiene	1.30	2.88	U	2.88	11.1	ug/m3
91-20-3	Naphthalene	0.75	3.93	U	3.93	5.24	ug/m3
622-96-8	4-Ethyltoluene	1.20	5.90	U	5.90	24.6	ug/m3
110-54-3	Hexane	1.10	3.88	U	3.88	17.6	ug/m3
107-05-1	Allyl Chloride	1.50	4.70	U	4.70	15.7	ug/m3
123-91-1	1,4-Dioxane	2.10	7.57	U	7.57	18.0	ug/m3
80-62-6	Methyl Methacrylate	0.86	3.52	U	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	157000	2.803
540-36-3	1,4-Difluorobenzene	411000	3.981
3114-55-4	Chlorobenzene-d5	407000	8.901

TENTATIVE IDENTIFIED COMPOUNDS

64-17-5	Ethanol	34.3	J	1.73	ppbv
001678-91-7	Cyclohexane, ethyl-	55.2	J	9.01	ppbv
026730-12-1	Tridecane, 4-methyl-	45.3	J	9.02	ppbv

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/02/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	SSSG-B2-1-04022025	SDG No.:	Q1728
Lab Sample ID:	Q1728-09	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
VL042266.D	10		04/08/25 16:27	VL040825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
003073-66-3	Cyclohexane, 1,1,3-trimethyl-	47.9		J		9.12	ppbv
000926-82-9	Heptane, 3,5-dimethyl-	94.0		J		9.17	ppbv
007667-60-9	Cyclohexane, 1,2,4-trimethyl-, (1.	40.8		J		9.44	ppbv
004923-78-8	Cyclohexane, 1-ethyl-2-methyl-, tr	48.3		J		10.1	ppbv
059643-68-4	3,5-Dimethyl-3-heptene	39.4		J		10.5	ppbv
98-82-8	Isopropylbenzene	4.00		J		10.6	ppbv
103-65-1	n-propylbenzene	5.10		J		11.0	ppbv
000611-14-3	Benzene, 1-ethyl-2-methyl-	50.3		J		11.1	ppbv
98-06-6	tert-Butylbenzene	10.5		J		11.6	ppbv
135-98-8	sec-Butylbenzene	2.80		J		11.8	ppbv
99-87-6	p-Isopropyltoluene	4.00		J		11.9	ppbv
002847-72-5	Decane, 4-methyl-	47.0		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\VL040825\
 Data File : VL042266.D
 Acq On : 08 Apr 2025 16:27
 Operator : SY/MD
 Sample : Q1728-09 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-1-04022025

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
 Supervised By :Semsettin Yesilyurt 04/10/2025

Quant Time: Apr 09 01:57:22 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	157346	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	411449	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.901	117	406705	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	320156	9.586	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.900%
Target Compounds						
					Qvalue	
13) Ethanol	1.732	45	3524m	3.427	ppbv	
15) Acetone	1.845	43	47368	2.153	ppbv	98
20) Methylene Chloride	2.075	84	2047	0.250	ppbv #	76
29) Chloroform	2.865	83	11335	0.351	ppbv	91
34) 2-Butanone	2.580	43	3906	0.131	ppbv	93
53) Toluene	6.959	91	20919m	0.433	ppbv	
58) Ethyl Benzene	9.377	91	39620	0.548	ppbv	100
59) m/p-Xylene	9.552	91	513256m	8.897	ppbv	
60) o-Xylene	9.982	91	421737	7.293	ppbv	98
62) Isopropylbenzene	10.555	105	34792	0.402	ppbv	100
64) n-propylbenzene	11.005	120	11288	0.507	ppbv	83
65) tert-Butylbenzene	11.552	119	84175	1.052	ppbv #	69
67) sec-Butylbenzene	11.782	105	31349	0.282	ppbv #	67
69) p-Isopropyltoluene	11.940	119	38407	0.401	ppbv	98
73) 1,3,5-Trimethylbenzene	11.222	105	423292	6.731	ppbv	97
74) 1,2,4-Trimethylbenzene	11.552	105	713955	9.855	ppbv #	66

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

Manual Integrations

Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

Abundance

TIC: VL042266.D\data.ms

Time-->

2600000

2500000

2400000

2300000

2200000

2100000

2000000

1900000

1800000

1700000

1600000

1500000

1400000

1300000

1200000

1100000

1000000

900000

800000

700000

600000

500000

400000

300000

200000

100000

0

1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00 18.00 19.00 20.00 21.00

Ethanol, T

Acetone, T

Methylene Chloride, T

2-Butanone, T

Chloroform, T

Bromochloromethane, I

1,4-Difluorobenzene, I

Toluene, T

Ethylbenzene, T

Chlorobenzene-d5, I

m/p-Xylene, T

o-Xylene, T

1-Bromo-4-Fluorobenzene, S

1,3,5-Trimethylbenzene, T

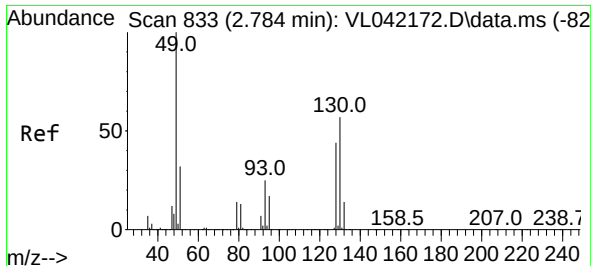
1,3,4,5-Tetramethylbenzene, T

p-Propylbenzene

n-Propylbenzene

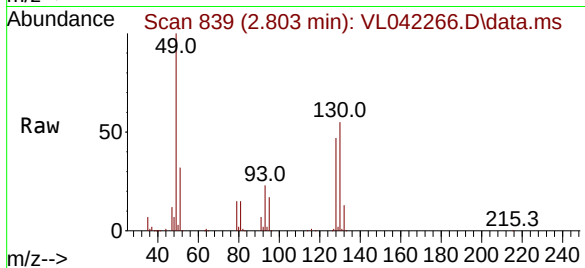
sec-Butylbenzene

p-Isopropyltoluene



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042266.D
Acq: 08 Apr 2025 16:27

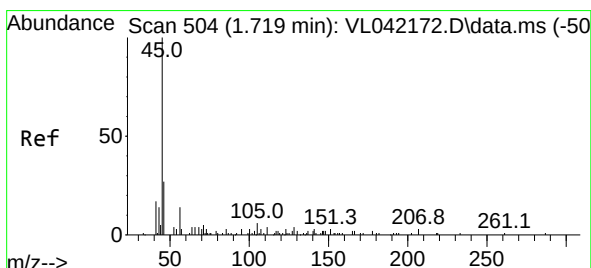
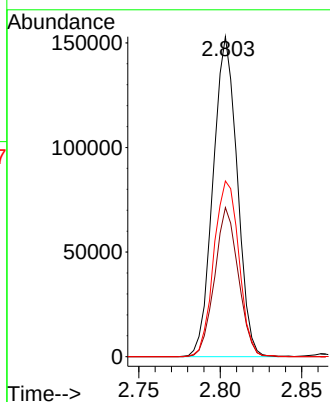
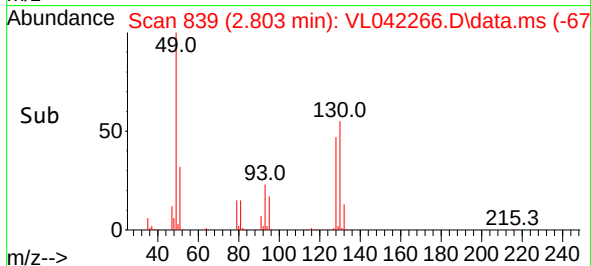
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025



Tgt Ion: 49 Resp: 157340
Ion Ratio Lower Upper
49 100
128 45.7 22.9 68.5
130 57.2 28.8 86.4

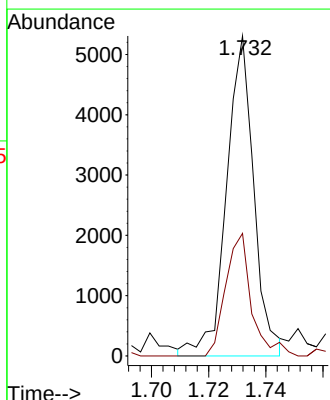
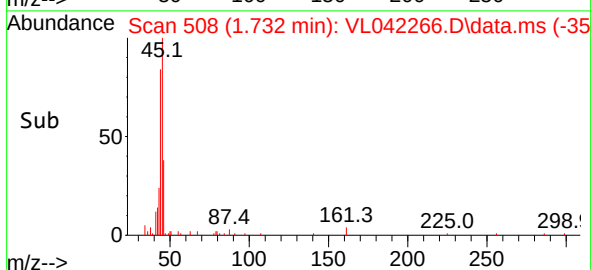
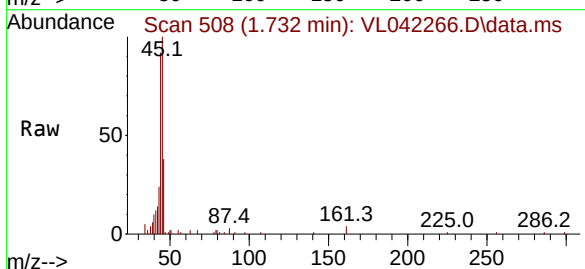
Manual Integrations
APPROVED

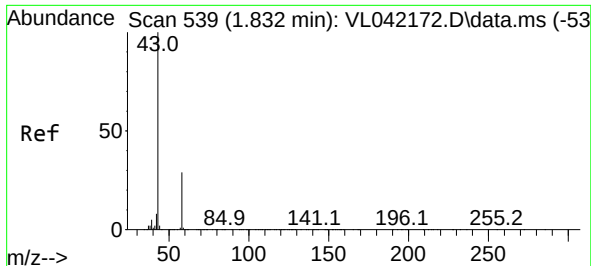
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#13
Ethanol
Concen: 3.427 ppbv m
RT: 1.732 min Scan# 508
Delta R.T. 0.013 min
Lab File: VL042266.D
Acq: 08 Apr 2025 16:27

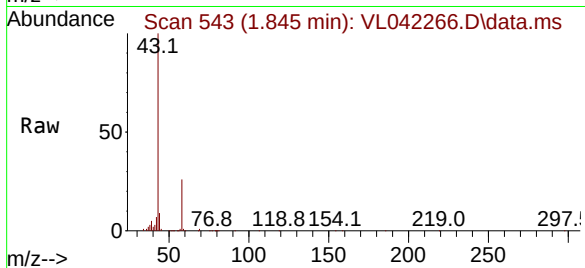
Tgt Ion: 45 Resp: 3524
Ion Ratio Lower Upper
45 100
46 0.0 20.2 80.8#





#15
Acetone
Concen: 2.153 ppbv
RT: 1.845 min Scan# 54
Delta R.T. 0.013 min
Lab File: VL042266.D
Acq: 08 Apr 2025 16:27

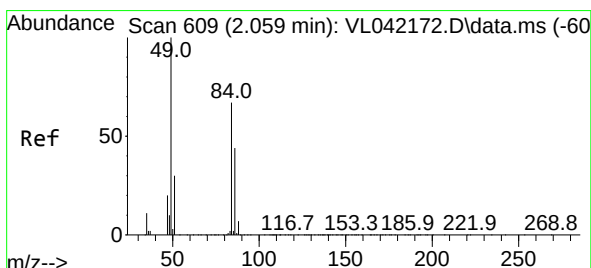
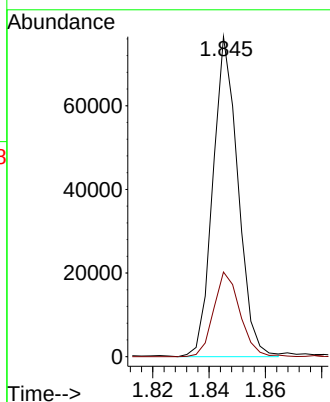
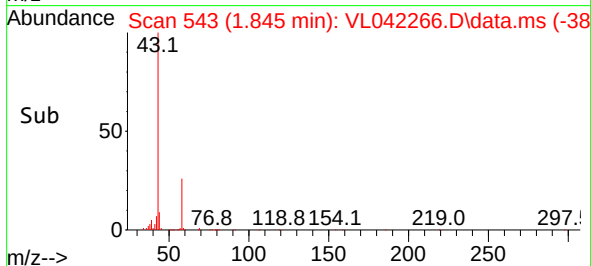
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025



Tgt Ion: 43 Resp: 47368
Ion Ratio Lower Upper
43 100
58 28.0 23.2 34.8

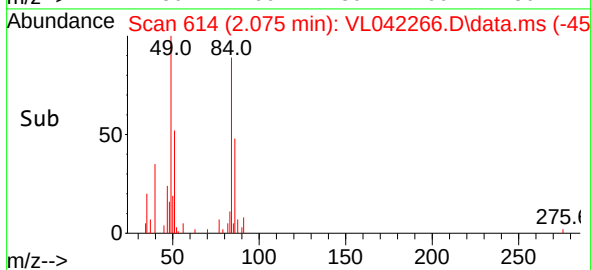
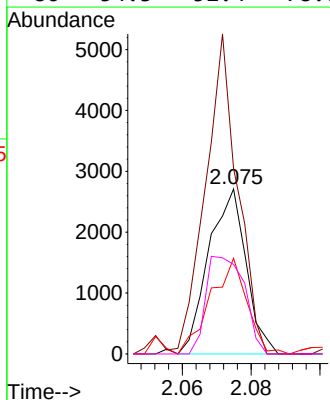
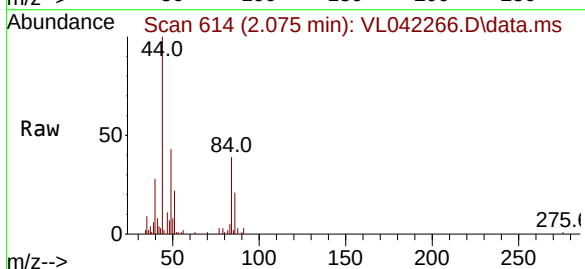
Manual Integrations
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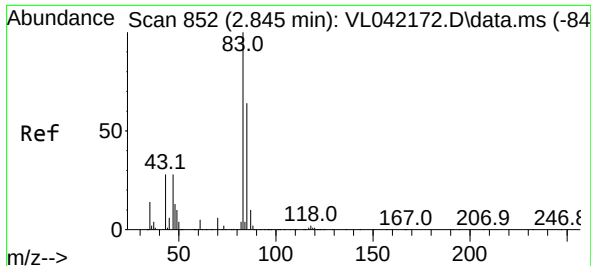
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#20
Methylene Chloride
Concen: 0.250 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.016 min
Lab File: VL042266.D
Acq: 08 Apr 2025 16:27

Tgt Ion: 84 Resp: 2047
Ion Ratio Lower Upper
84 100
49 112.5 120.2 180.4#
51 58.0 37.4 56.0#
86 54.3 52.4 78.6





#29

Chloroform

Concen: 0.351 ppbv

RT: 2.865 min Scan# 81

Delta R.T. 0.019 min

Lab File: VL042266.D

Acq: 08 Apr 2025 16:27

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-1-04022025

Tgt Ion: 83 Resp: 1133

Ion Ratio Lower Upper

83 100

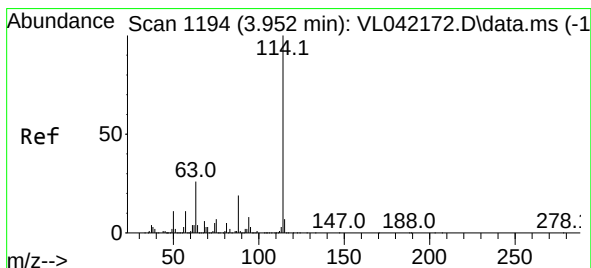
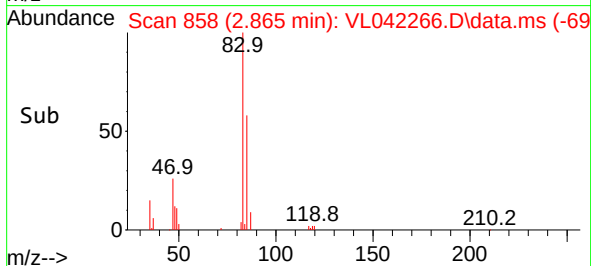
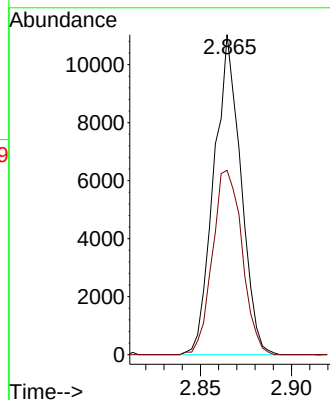
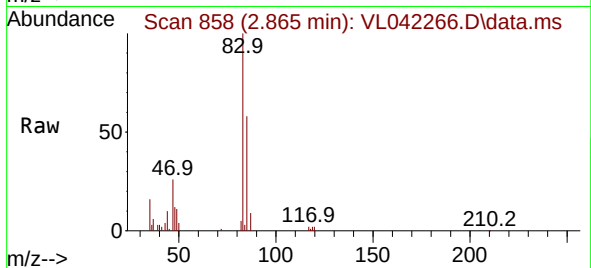
85 57.6 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025

Supervised By :Semsettin Yesilyurt 04/10/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.981 min Scan# 1203

Delta R.T. 0.029 min

Lab File: VL042266.D

Acq: 08 Apr 2025 16:27

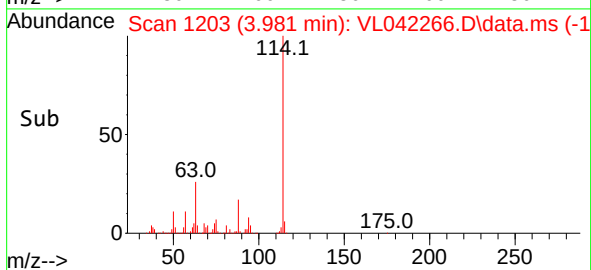
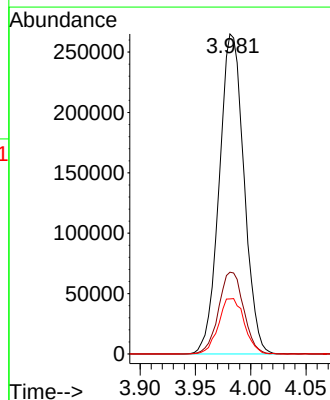
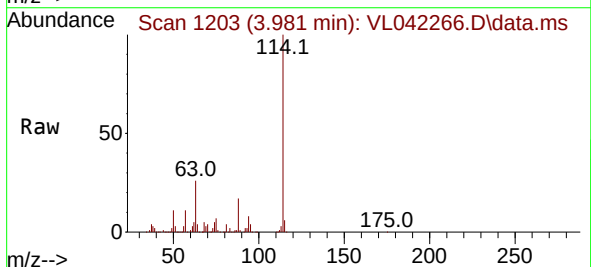
Tgt Ion:114 Resp: 411449

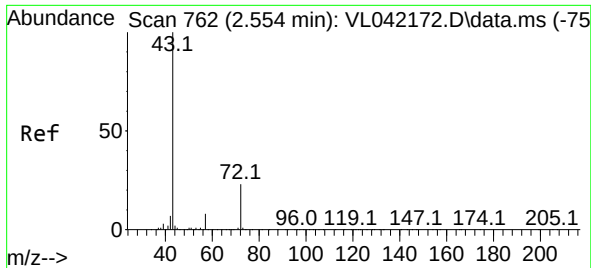
Ion Ratio Lower Upper

114 100

63 25.9 20.7 31.1

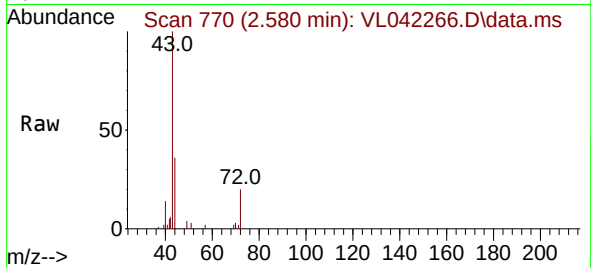
88 18.1 15.0 22.4





#34
2-Butanone
Concen: 0.131 ppbv
RT: 2.580 min Scan# 71
Delta R.T. 0.026 min
Lab File: VL042266.D
Acq: 08 Apr 2025 16:27

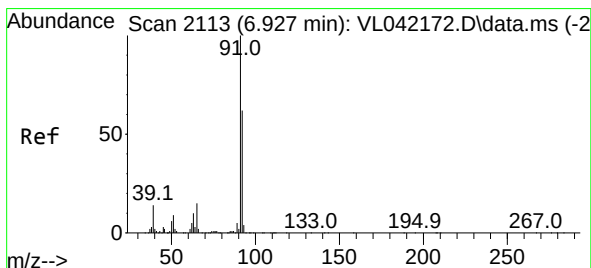
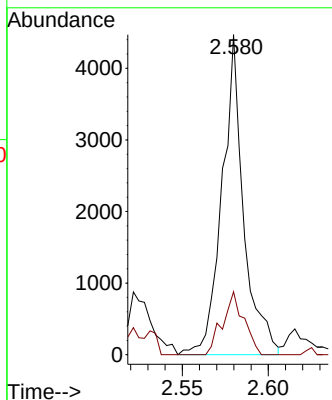
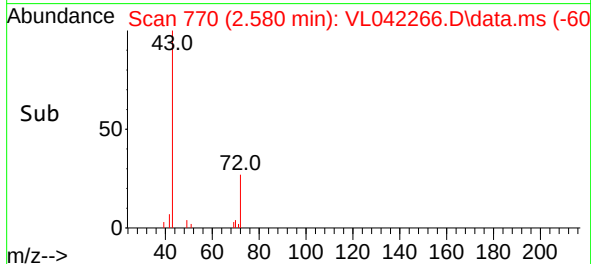
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025



Tgt Ion: 43 Resp: 3900
Ion Ratio Lower Upper
43 100
72 19.3 18.2 27.2

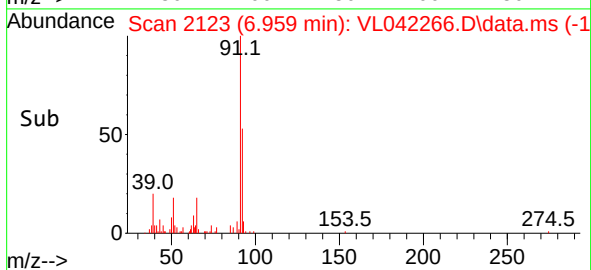
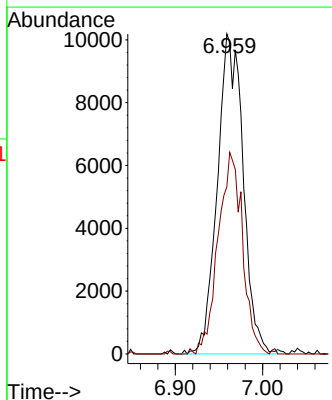
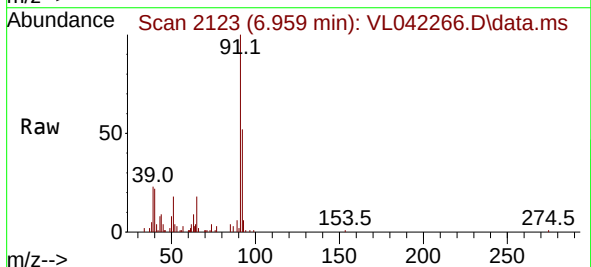
Manual Integrations
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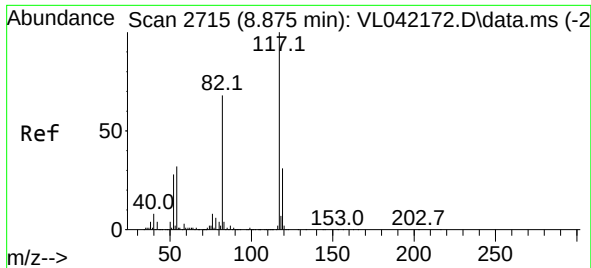
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#53
Toluene
Concen: 0.433 ppbv m
RT: 6.959 min Scan# 2123
Delta R.T. 0.032 min
Lab File: VL042266.D
Acq: 08 Apr 2025 16:27

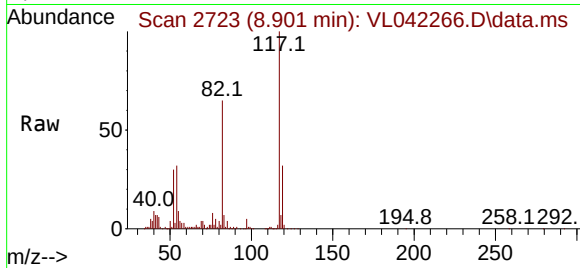
Tgt Ion: 91 Resp: 20919
Ion Ratio Lower Upper
91 100
92 0.0 48.4 72.6#





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL042266.D
Acq: 08 Apr 2025 16:27

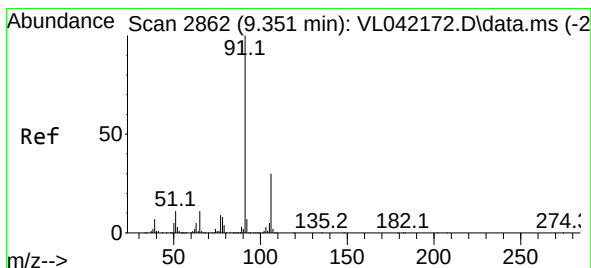
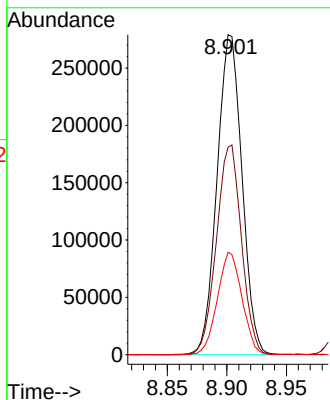
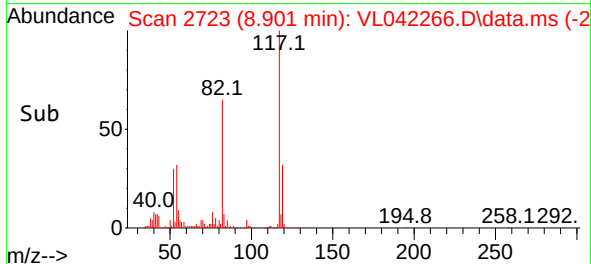
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025



Tgt Ion: 117 Resp: 40670
Ion Ratio Lower Upper
117 100
82 65.9 55.8 83.6
119 31.7 25.5 38.3

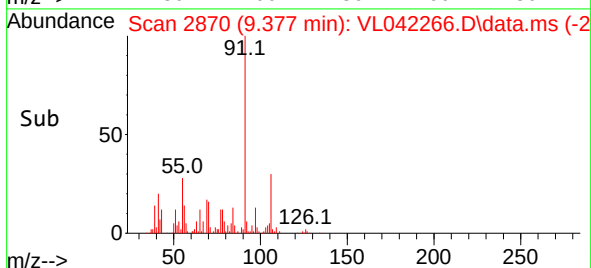
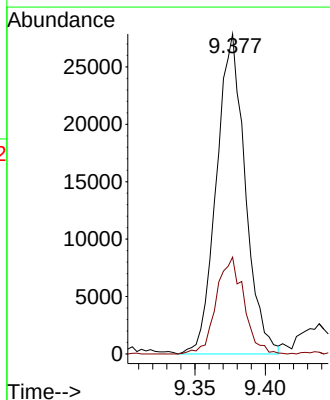
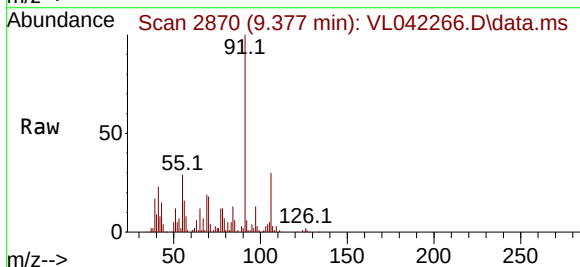
Manual Integrations
APPROVED

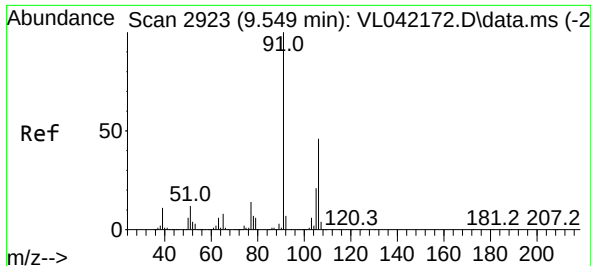
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#58
Ethyl Benzene
Concen: 0.548 ppbv
RT: 9.377 min Scan# 2870
Delta R.T. 0.026 min
Lab File: VL042266.D
Acq: 08 Apr 2025 16:27

Tgt Ion: 91 Resp: 39620
Ion Ratio Lower Upper
91 100
106 30.2 24.2 36.2





#59

m/p-Xylene

Concen: 8.897 ppbv m

RT: 9.552 min Scan# 2923

Delta R.T. 0.003 min

Lab File: VL042266.D

Acq: 08 Apr 2025 16:27

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-1-04022025

Tgt Ion: 91 Resp: 513250

Ion Ratio Lower Upper

91 100

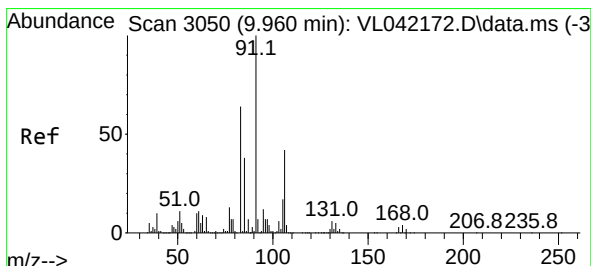
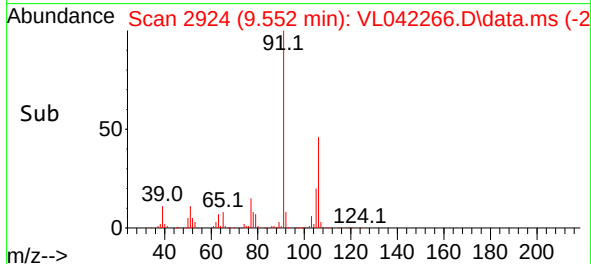
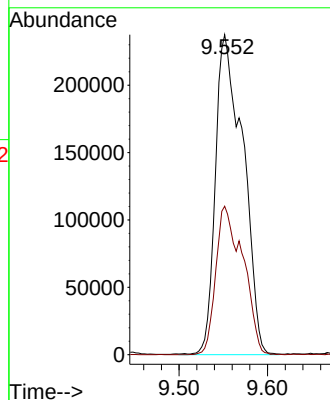
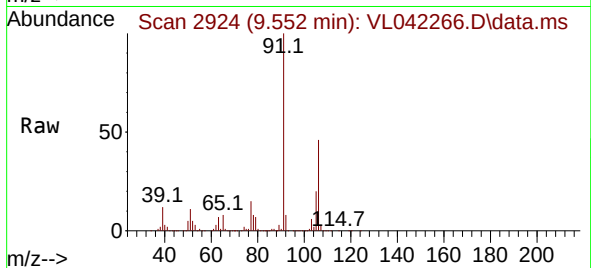
106 0.0 36.4 54.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025

Supervised By :Semsettin Yesilyurt 04/10/2025



#60

o-Xylene

Concen: 7.293 ppbv

RT: 9.982 min Scan# 3057

Delta R.T. 0.022 min

Lab File: VL042266.D

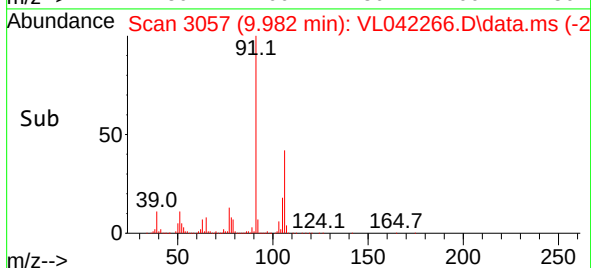
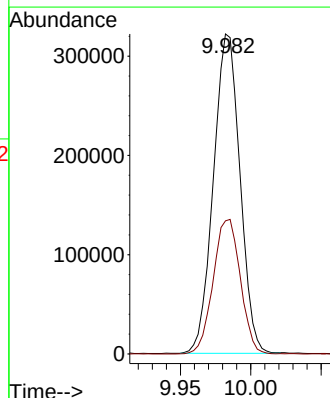
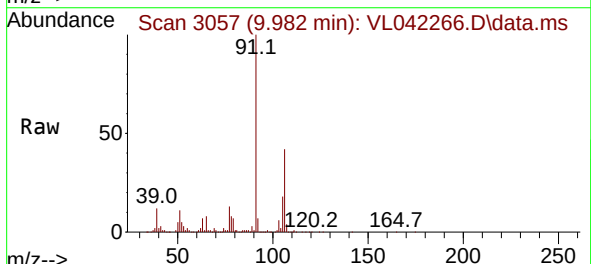
Acq: 08 Apr 2025 16:27

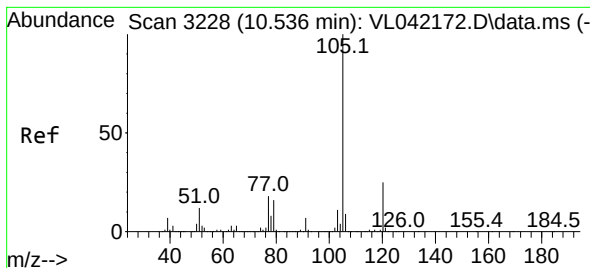
Tgt Ion: 91 Resp: 421737

Ion Ratio Lower Upper

91 100

106 43.2 20.8 62.5





#62

Isopropylbenzene

Concen: 0.402 ppbv

RT: 10.555 min Scan# 31

Delta R.T. 0.019 min

Lab File: VL042266.D

Acq: 08 Apr 2025 16:27

Instrument :

MSVOA_L

ClientSampleId :

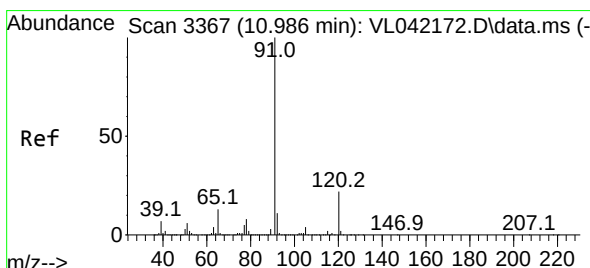
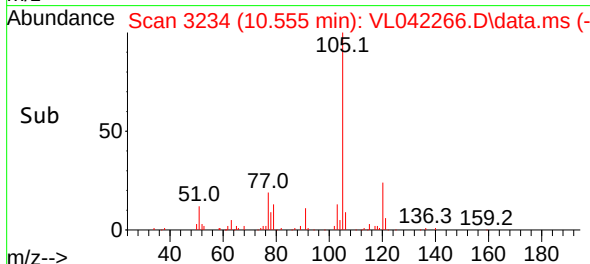
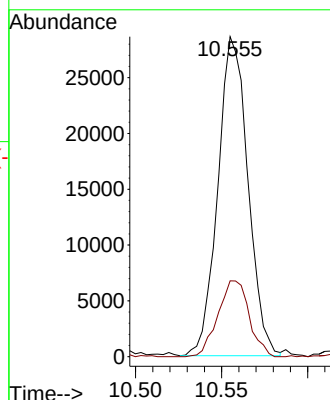
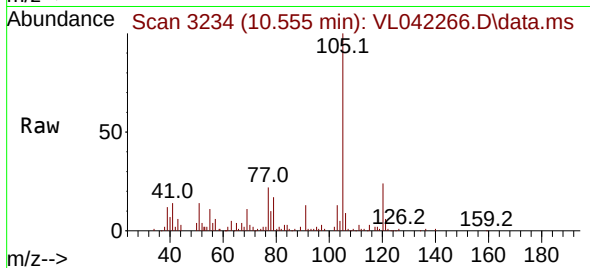
SSSG-B2-1-04022025

Tgt Ion:105 Resp: 34792
 Ion Ratio Lower Upper
 105 100
 120 24.7 19.9 29.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
 Supervised By :Semsettin Yesilyurt 04/10/2025



#64

n-propylbenzene

Concen: 0.507 ppbv

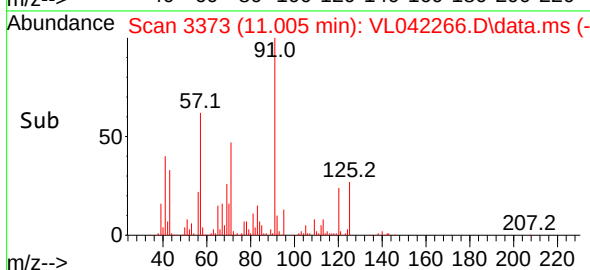
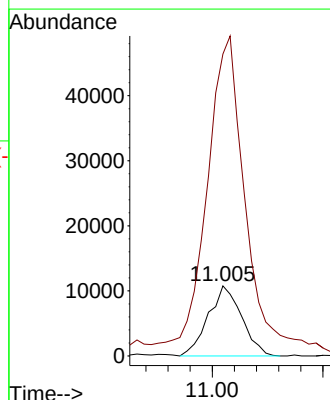
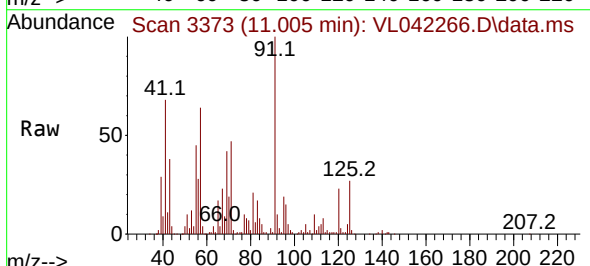
RT: 11.005 min Scan# 3373

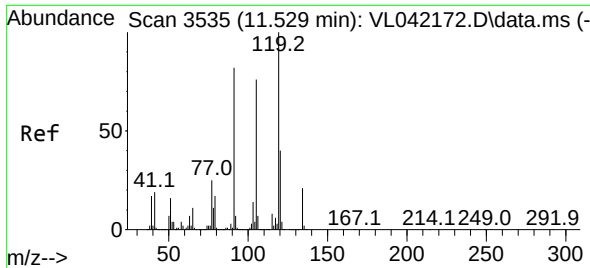
Delta R.T. 0.019 min

Lab File: VL042266.D

Acq: 08 Apr 2025 16:27

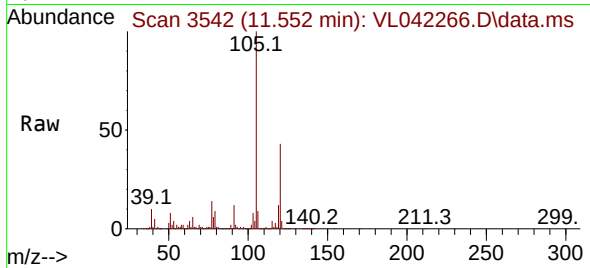
Tgt Ion:120 Resp: 11288
 Ion Ratio Lower Upper
 120 100
 91 516.6 376.9 565.3





#65
tert-Butylbenzene
Concen: 1.052 ppbv
RT: 11.552 min Scan# 3542
Delta R.T. 0.022 min
Lab File: VL042266.D
Acq: 08 Apr 2025 16:27

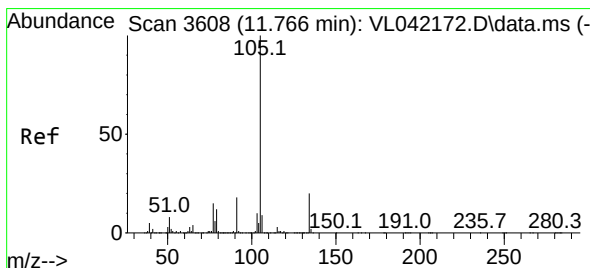
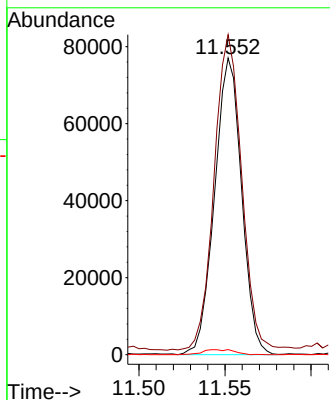
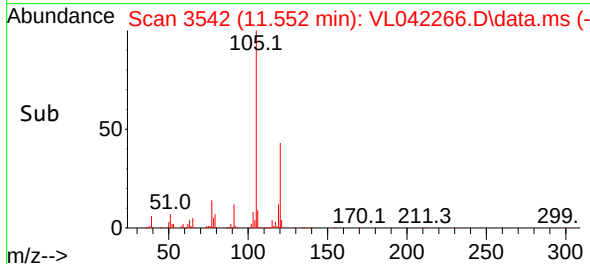
Instrument : MSVOA_L
ClientSampleId : SSSG-B2-1-04022025



Tgt Ion:119 Resp: 8417
Ion Ratio Lower Upper
119 100
91 108.5 66.0 99.0
134 2.0 16.7 25.1

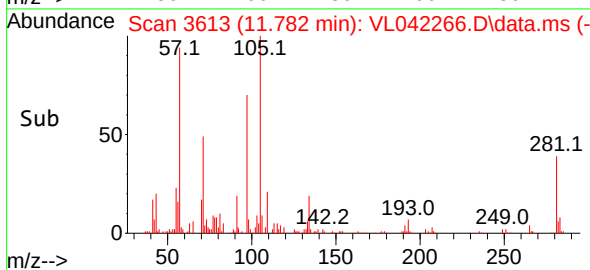
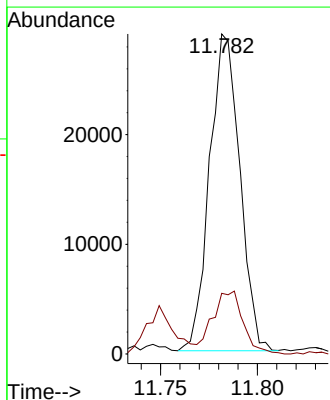
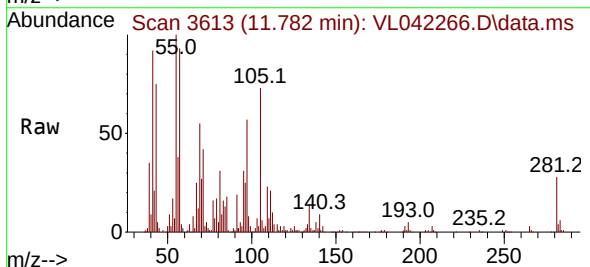
Manual Integrations
APPROVED

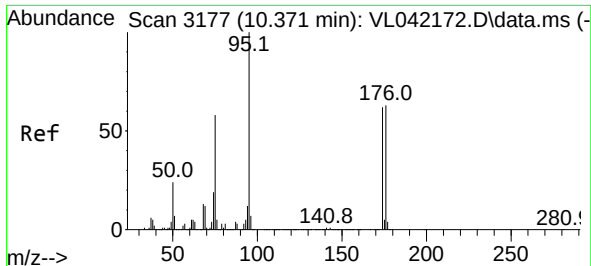
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#67
sec-Butylbenzene
Concen: 0.282 ppbv
RT: 11.782 min Scan# 3613
Delta R.T. 0.016 min
Lab File: VL042266.D
Acq: 08 Apr 2025 16:27

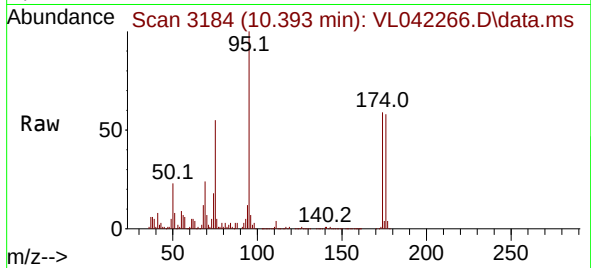
Tgt Ion:105 Resp: 31349
Ion Ratio Lower Upper
105 100
134 34.2 15.5 23.3





#68
1-Bromo-4-Fluorobenzene
Concen: 9.586 ppbv
RT: 10.393 min Scan# 3177
Delta R.T. 0.022 min
Lab File: VL042266.D
Acq: 08 Apr 2025 16:27

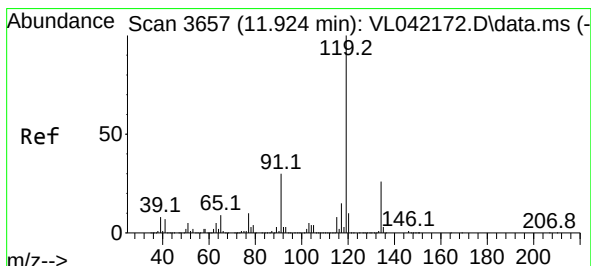
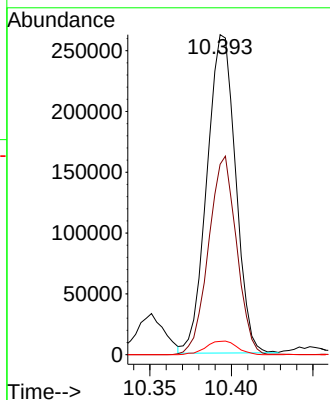
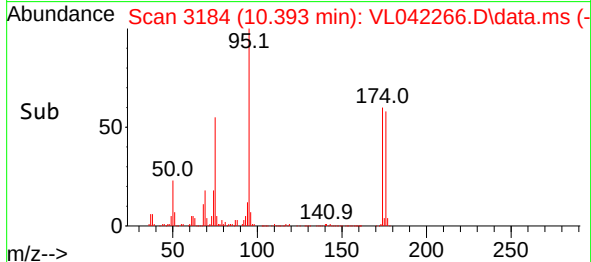
Instrument : MSVOA_L
ClientSampleId : SSSG-B2-1-04022025



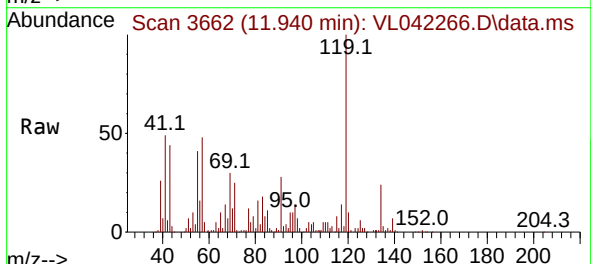
Tgt Ion: 95 Resp: 320150
Ion Ratio Lower Upper
95 100
174 60.9 50.6 76.0
175 4.6 3.8 5.6

Manual Integrations
APPROVED

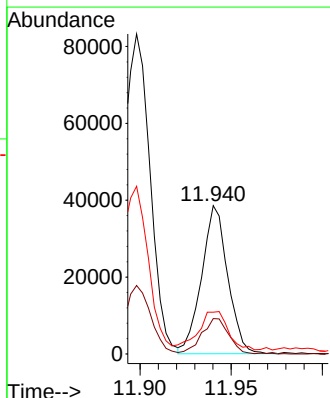
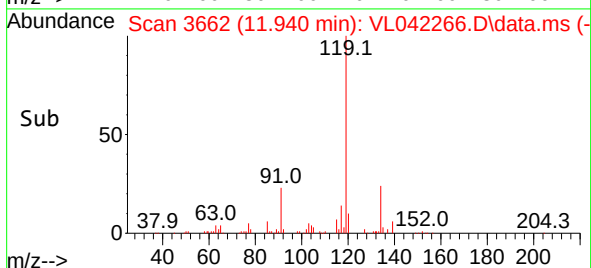
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

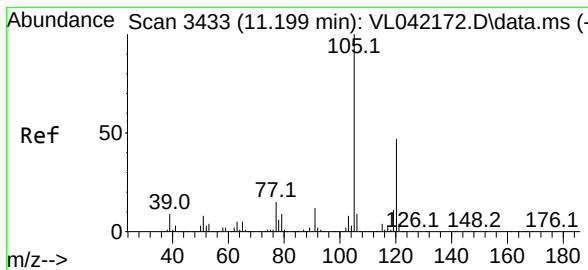


#69
p-Isopropyltoluene
Concen: 0.401 ppbv
RT: 11.940 min Scan# 3662
Delta R.T. 0.016 min
Lab File: VL042266.D
Acq: 08 Apr 2025 16:27



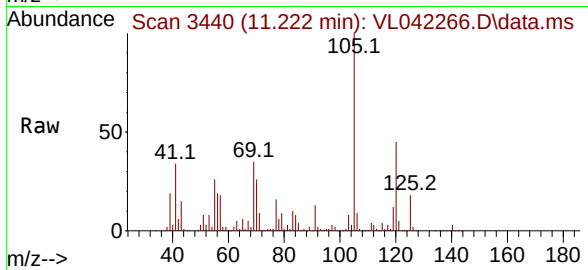
Tgt Ion:119 Resp: 38407
Ion Ratio Lower Upper
119 100
134 24.6 20.4 30.6
91 28.3 23.7 35.5





#73
 1,3,5-Trimethylbenzene
 Concen: 6.731 ppbv
 RT: 11.222 min Scan# 3433
 Delta R.T. 0.022 min
 Lab File: VL042266.D
 Acq: 08 Apr 2025 16:27

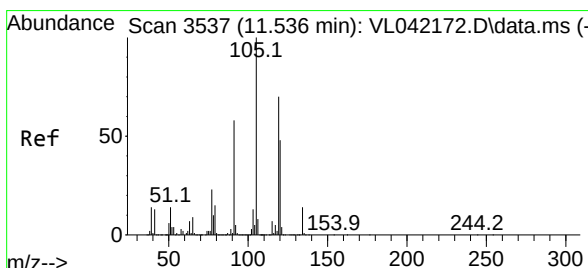
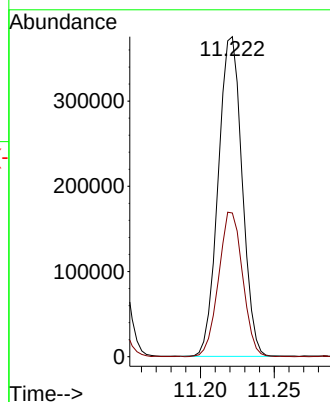
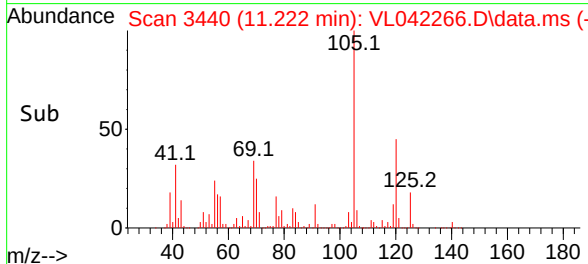
Instrument : MSVOA_L
 ClientSampleId : SSSG-B2-1-04022025



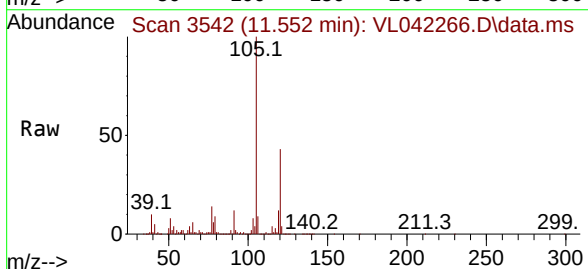
Tgt Ion:105 Resp: 423292
 Ion Ratio Lower Upper
 105 100
 120 44.8 37.4 56.0

Manual Integrations
 APPROVED

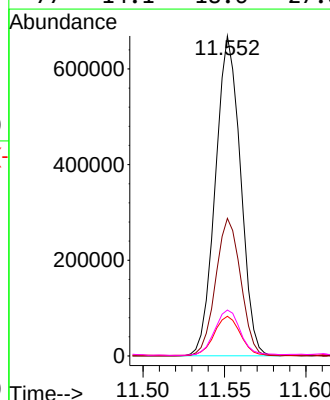
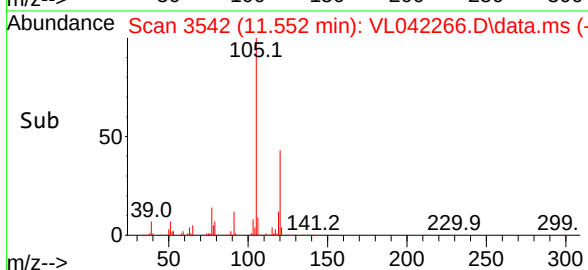
Reviewed By :Mahesh Dadoda 04/09/2025
 Supervised By :Semsettin Yesilyurt 04/10/2025



#74
 1,2,4-Trimethylbenzene
 Concen: 9.855 ppbv
 RT: 11.552 min Scan# 3542
 Delta R.T. 0.016 min
 Lab File: VL042266.D
 Acq: 08 Apr 2025 16:27



Tgt Ion:105 Resp: 713955
 Ion Ratio Lower Upper
 105 100
 120 43.0 38.6 58.0
 91 12.2 46.2 69.2#
 77 14.1 18.6 27.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042266.D
 Acq On : 08 Apr 2025 16:27
 Operator : SY/MD
 Sample : Q1728-09 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-1-04022025

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: VL042266.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	423	rBV	4174602	4694733	100.00%	8.314%
2	1.845	538	543	551	rBV	116610	76665	1.63%	0.136%
3	2.803	829	839	847	rBV	567867	590347	12.57%	1.046%
4	3.981	1191	1203	1216	rBV	697216	1094287	23.31%	1.938%
5	5.700	1716	1734	1749	rBV6	55170	134942	2.87%	0.239%
6	5.826	1753	1773	1788	rBV7	43490	118717	2.53%	0.210%
7	6.234	1886	1899	1900	rBV2	46954	67499	1.44%	0.120%
8	6.308	1921	1922	1935	rVB4	43228	50400	1.07%	0.089%
9	6.506	1965	1983	1990	rBV4	51342	121658	2.59%	0.215%
10	6.558	1990	1999	2015	rVB6	39251	95214	2.03%	0.169%
11	6.758	2045	2061	2075	rBV5	61024	138664	2.95%	0.246%
12	7.215	2186	2202	2227	rBV3	179791	425483	9.06%	0.754%
13	7.480	2267	2284	2298	rBV4	76180	189648	4.04%	0.336%
14	7.645	2318	2335	2344	rBV4	354891	717305	15.28%	1.270%
15	7.697	2344	2351	2367	rVB2	261855	486901	10.37%	0.862%
16	7.846	2384	2397	2409	rBV	118576	209587	4.46%	0.371%
17	7.924	2409	2421	2425	rVV2	71547	129852	2.77%	0.230%
18	7.940	2425	2426	2438	rVV6	57653	76603	1.63%	0.136%
19	8.004	2438	2446	2449	rVV5	47460	69197	1.47%	0.123%
20	8.037	2449	2456	2465	rVV6	74766	133973	2.85%	0.237%
21	8.089	2465	2472	2480	rVV6	30996	51232	1.09%	0.091%
22	8.160	2480	2494	2507	rVB2	538737	901751	19.21%	1.597%
23	8.341	2534	2550	2563	rVB5	336494	650002	13.85%	1.151%
24	8.519	2591	2605	2616	rVB8	48313	106482	2.27%	0.189%
25	8.658	2639	2648	2656	rBV6	39214	64724	1.38%	0.115%
26	8.710	2656	2664	2672	rBV3	92959	139002	2.96%	0.246%
27	8.791	2680	2689	2700	rVB3	193776	287325	6.12%	0.509%
28	8.901	2706	2723	2736	rBV3	1144294	2316668	49.35%	4.103%
29	9.005	2744	2755	2758	rBV4	861504	1279840	27.26%	2.267%
30	9.021	2758	2760	2771	rVB2	870779	1049233	22.35%	1.858%
31	9.121	2781	2791	2797	rBV	768446	1109741	23.64%	1.965%
32	9.166	2797	2805	2826	rVV3	1101398	2178771	46.41%	3.859%
33	9.254	2826	2832	2855	rVB5	115664	312573	6.66%	0.554%
34	9.399	2858	2877	2882	rBV4	308777	634995	13.53%	1.125%
35	9.438	2882	2889	2898	rVB	662605	944531	20.12%	1.673%
36	9.552	2916	2924	2927	rBV	664111	847819	18.06%	1.501%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042266.D
 Acq On : 08 Apr 2025 16:27
 Operator : SY/MD
 Sample : Q1728-09 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-1-04022025

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	9.574	2927	2931	2941	rVV5	706936	1091085	23.24%	1.932%
38	9.632	2941	2949	2955	rVV4	163177	288341	6.14%	0.511%
39	9.675	2955	2962	2972	rVB	364515	491323	10.47%	0.870%
40	9.746	2983	2984	2995	rVB2	64277	65484	1.39%	0.116%

41	9.849	2995	3016	3019	rBV8	111897	284507	6.06%	0.504%
42	9.882	3019	3026	3033	rVV3	271909	388803	8.28%	0.689%
43	9.914	3033	3036	3044	rVV5	56949	64637	1.38%	0.114%
44	9.982	3044	3057	3064	rVV	915556	1397459	29.77%	2.475%
45	10.008	3064	3065	3083	rVB5	251584	361355	7.70%	0.640%

46	10.118	3083	3099	3106	rBV4	565907	1118892	23.83%	1.982%
47	10.163	3106	3113	3123	rVB5	475817	761813	16.23%	1.349%
48	10.238	3131	3136	3149	rVB5	44058	92604	1.97%	0.164%
49	10.393	3155	3184	3194	rBV2	1410306	2462112	52.44%	4.360%
50	10.451	3194	3202	3210	rVB3	675528	912569	19.44%	1.616%

51	10.497	3210	3216	3228	rVB3	219535	318348	6.78%	0.564%
52	10.558	3228	3235	3241	rBV	93270	134609	2.87%	0.238%
53	10.594	3241	3246	3250	rBV2	83008	87421	1.86%	0.155%
54	10.629	3250	3257	3261	rBV2	423474	560577	11.94%	0.993%
55	10.652	3261	3264	3270	rVV3	323795	357211	7.61%	0.633%

56	10.681	3270	3273	3279	rVB2	131786	130132	2.77%	0.230%
57	10.726	3279	3287	3295	rVB6	198560	281215	5.99%	0.498%
58	10.788	3295	3306	3309	rBV3	259366	374221	7.97%	0.663%
59	10.814	3309	3314	3319	rVV	585670	638739	13.61%	1.131%
60	10.843	3319	3323	3328	rVV3	199827	221087	4.71%	0.392%

61	10.872	3328	3332	3339	rVB3	307187	346159	7.37%	0.613%
62	10.917	3339	3346	3351	rBV2	497027	607250	12.93%	1.075%
63	10.940	3351	3353	3359	rVB4	136866	113168	2.41%	0.200%
64	11.027	3369	3380	3388	rVB6	843605	1461306	31.13%	2.588%
65	11.079	3388	3396	3398	rBV5	124163	163801	3.49%	0.290%

66	11.112	3398	3406	3411	rVV	968512	1166201	24.84%	2.065%
67	11.144	3411	3416	3427	rVB4	576772	802888	17.10%	1.422%
68	11.222	3427	3440	3447	rBV4	2080406	2728758	58.12%	4.833%
69	11.270	3447	3455	3459	rVV3	253622	342015	7.29%	0.606%
70	11.296	3459	3463	3469	rVV2	377592	432216	9.21%	0.765%

71	11.328	3469	3473	3476	rVV2	121663	121585	2.59%	0.215%
72	11.354	3476	3481	3488	rVV3	541158	678163	14.45%	1.201%
73	11.380	3488	3489	3495	rVV3	117507	80861	1.72%	0.143%
74	11.419	3495	3501	3502	rVV3	241099	199558	4.25%	0.353%
75	11.442	3502	3508	3516	rVV5	379776	657137	14.00%	1.164%

76	11.487	3516	3522	3528	rVB	327136	381317	8.12%	0.675%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042266.D
 Acq On : 08 Apr 2025 16:27
 Operator : SY/MD
 Sample : Q1728-09 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-1-04022025

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

77	11.552	3535	3542	3556	rBV2	1912738	2771215	59.03%	4.908%
78	11.613	3556	3561	3569	rVV4	345098	491274	10.46%	0.870%
79	11.655	3569	3574	3580	rVB5	176562	199824	4.26%	0.354%
80	11.720	3585	3594	3597	rBV7	73994	97362	2.07%	0.172%
81	11.746	3597	3602	3604	rVV2	175718	159382	3.39%	0.282%
82	11.769	3604	3609	3621	rVB5	489119	929149	19.79%	1.646%
83	11.830	3621	3628	3629	rBV3	72052	76173	1.62%	0.135%
84	11.872	3637	3641	3642	rBV2	72466	47595	1.01%	0.084%
85	11.895	3642	3648	3654	rVV2	811669	875071	18.64%	1.550%
86	11.927	3654	3658	3661	rVV4	129211	123177	2.62%	0.218%
87	11.953	3661	3666	3672	rVB4	206874	265597	5.66%	0.470%
88	11.989	3672	3677	3682	rVB5	96303	98958	2.11%	0.175%
89	12.031	3682	3690	3692	rBV4	221349	276816	5.90%	0.490%
90	12.057	3692	3698	3710	rVB4	799591	1089126	23.20%	1.929%
91	12.112	3710	3715	3721	rVB4	215526	229898	4.90%	0.407%
92	12.151	3721	3727	3732	rVB3	276765	277289	5.91%	0.491%
93	12.183	3732	3737	3742	rBV6	243515	279680	5.96%	0.495%
94	12.238	3749	3754	3760	rVB2	339292	338588	7.21%	0.600%
95	12.280	3765	3767	3772	rVB6	56985	47266	1.01%	0.084%
96	12.309	3772	3776	3780	rBV2	134437	126570	2.70%	0.224%
97	12.335	3780	3784	3791	rVB5	222762	258443	5.50%	0.458%
98	12.371	3791	3795	3799	rBV4	63227	61763	1.32%	0.109%
99	12.419	3803	3810	3816	rVB4	336629	358806	7.64%	0.635%
100	12.455	3816	3821	3826	rVB3	113778	111717	2.38%	0.198%
101	12.490	3826	3832	3836	rVB6	40851	47088	1.00%	0.083%
102	12.520	3836	3841	3845	rBV4	141308	165309	3.52%	0.293%
103	12.555	3851	3852	3860	rVB3	112689	83725	1.78%	0.148%
104	12.613	3860	3870	3878	rVV6	103851	178757	3.81%	0.317%
105	12.668	3878	3887	3898	rVV6	107834	252628	5.38%	0.447%
106	12.717	3898	3902	3908	rVB4	105132	104282	2.22%	0.185%
107	12.788	3915	3924	3925	rBV6	49328	54823	1.17%	0.097%
108	12.843	3936	3941	3947	rVB3	56086	62850	1.34%	0.111%
109	12.924	3958	3966	3976	rVV5	63486	101934	2.17%	0.181%
110	13.021	3987	3996	4006	rVB8	54680	96783	2.06%	0.171%
111	13.180	4036	4045	4049	rBV6	53474	62649	1.33%	0.111%

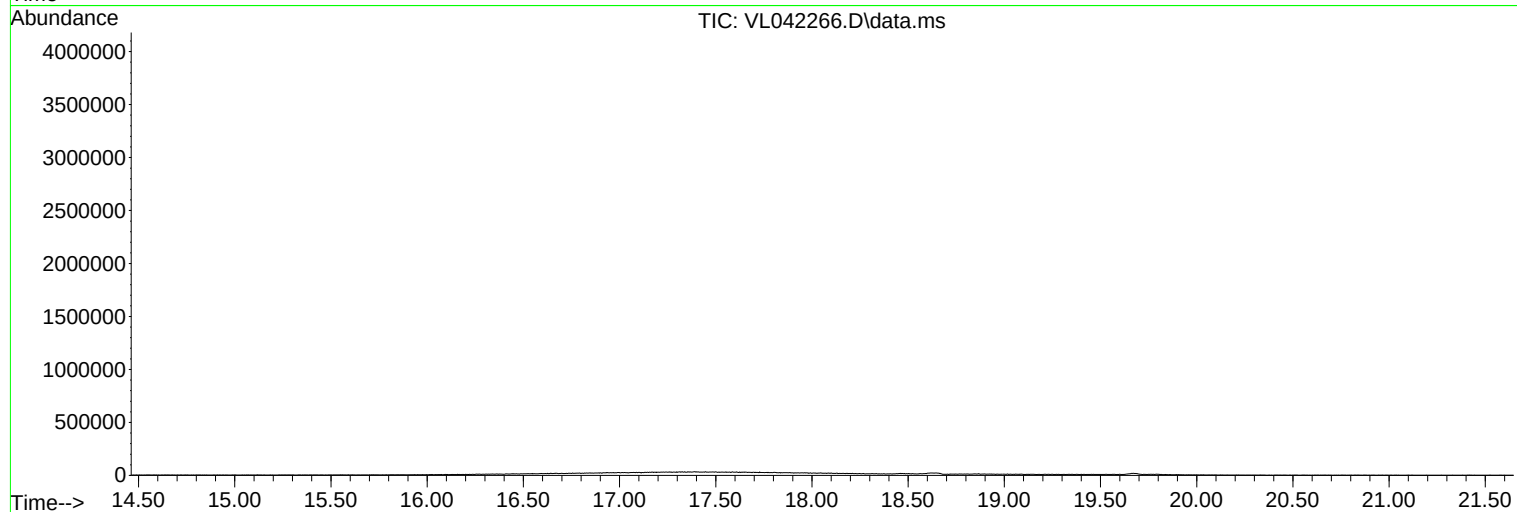
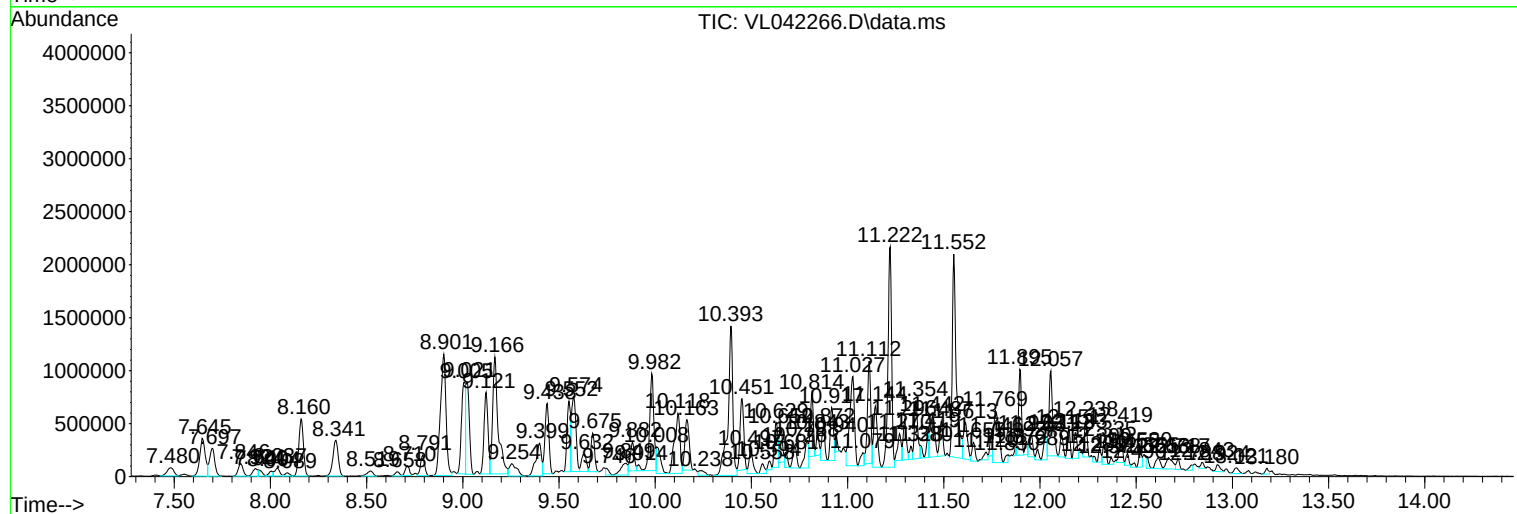
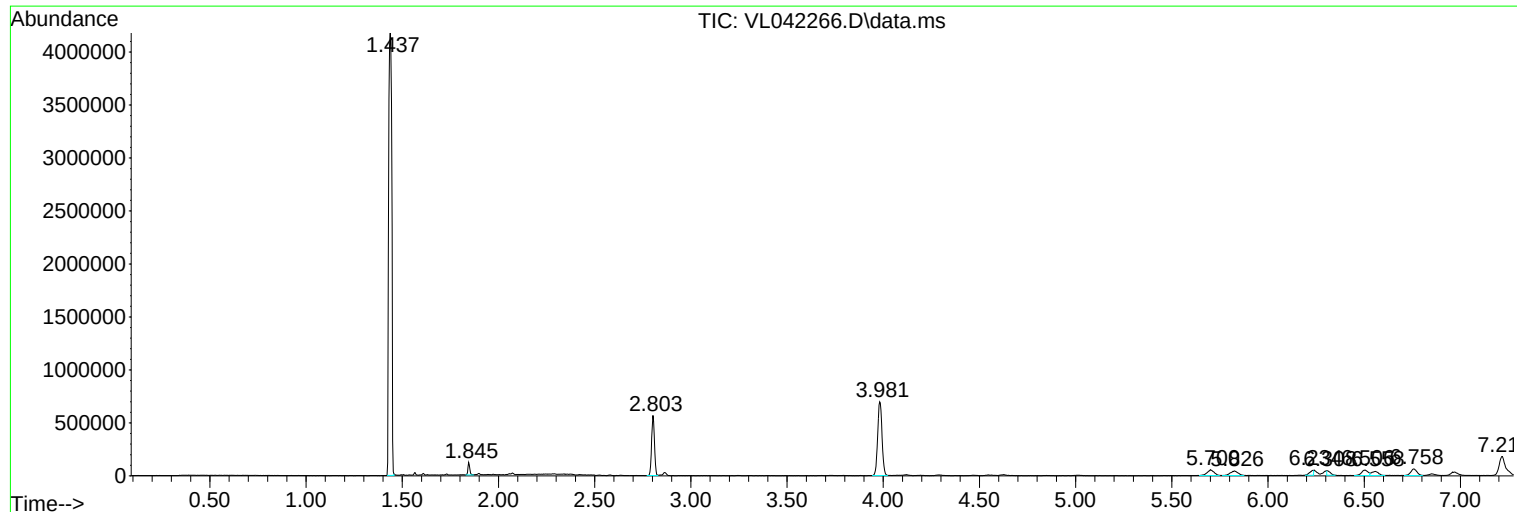
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Data File : VL042266.D
Acq On : 08 Apr 2025 16:27
Operator : SY/MD
Sample : Q1728-09 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025

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 : VL042266.D
Acq On : 08 Apr 2025 16:27
Operator : SY/MD
Sample : Q1728-09 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025

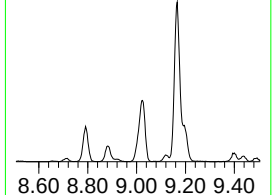
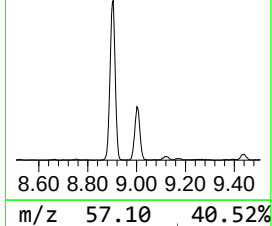
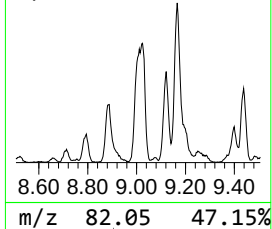
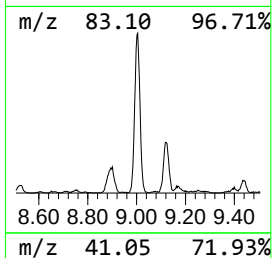
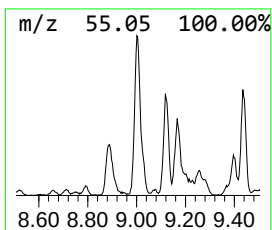
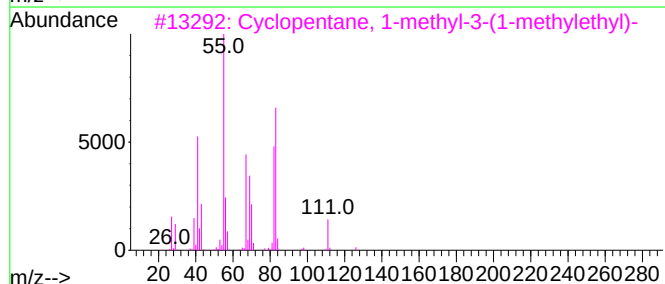
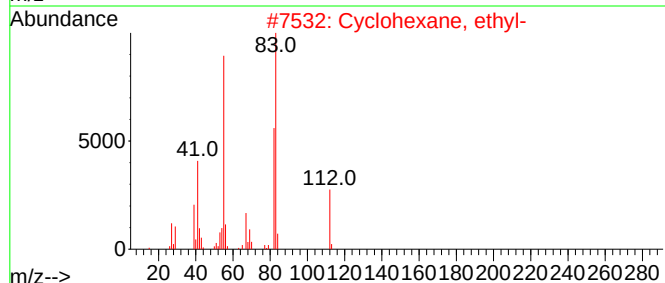
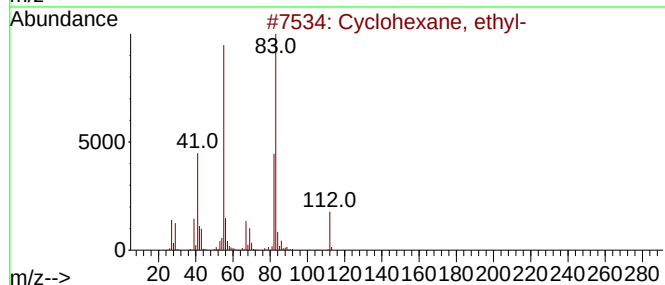
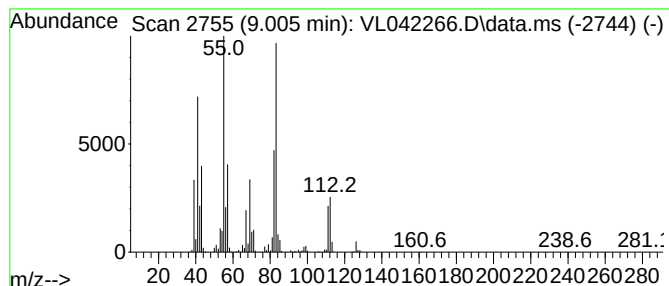
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 2 Cyclohexane, ethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.005	5.52 ppbv	1279840	Chlorobenzene-d5	8.901

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Cyclohexane, ethyl-	112	C8H16	001678-91-7	80
2		Cyclohexane, ethyl-	112	C8H16	001678-91-7	64
3		Cyclopentane, 1-methyl-3-(1-meth...	126	C9H18	053771-88-3	64
4		Cyclohexane, ethyl-	112	C8H16	001678-91-7	64
5		Cyclohexane, ethyl-	112	C8H16	001678-91-7	53



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042266.D
Acq On : 08 Apr 2025 16:27
Operator : SY/MD
Sample : Q1728-09 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025

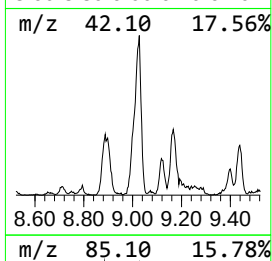
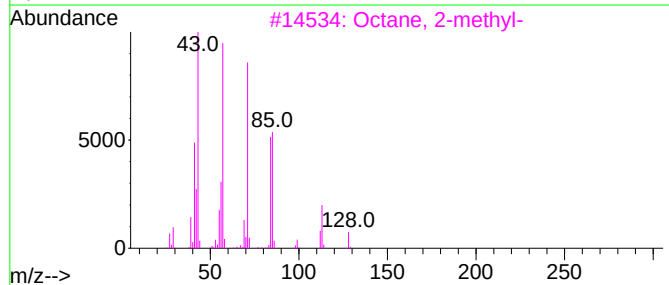
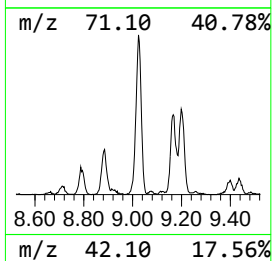
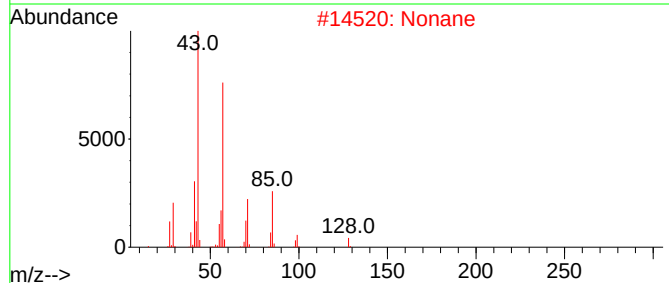
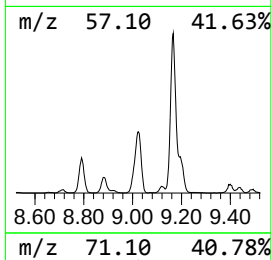
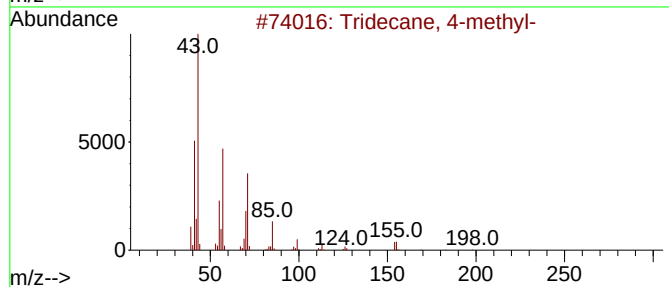
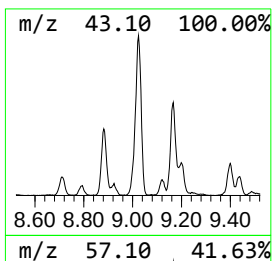
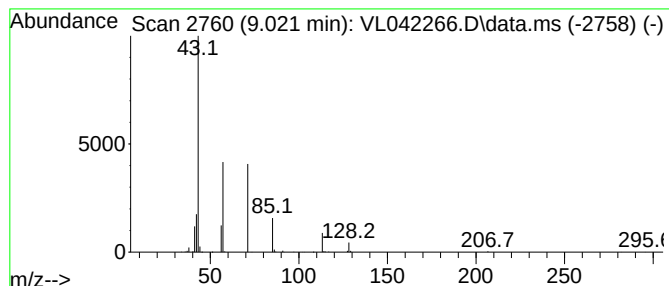
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 3 Tridecane, 4-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.021	4.53 ppbv	1049230	Chlorobenzene-d5	8.901

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Tridecane, 4-methyl-	198	C14H30	026730-12-1	64
2			Nonane	128	C9H20	000111-84-2	49
3			Octane, 2-methyl-	128	C9H20	003221-61-2	47
4			Decane, 4-methyl-	156	C11H24	002847-72-5	45
5			Heptane, 2,6-dimethyl-	128	C9H20	001072-05-5	42



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042266.D
Acq On : 08 Apr 2025 16:27
Operator : SY/MD
Sample : Q1728-09 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025

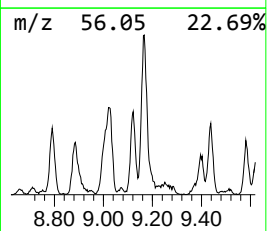
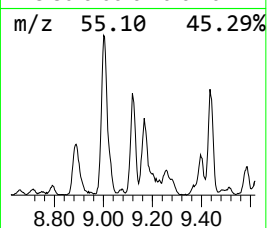
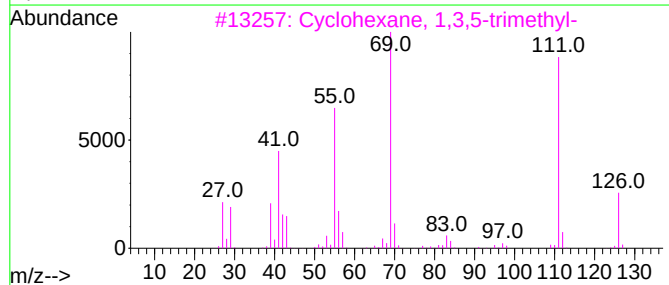
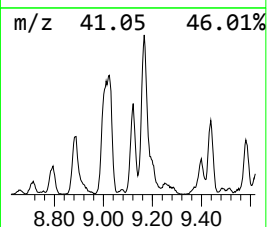
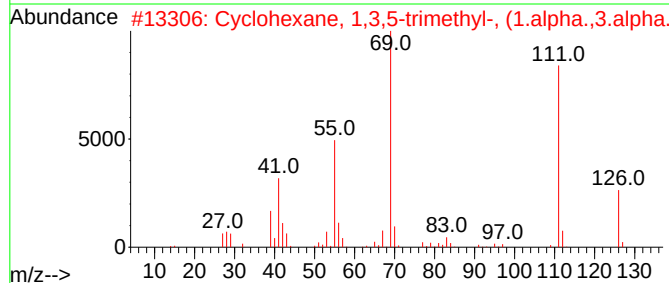
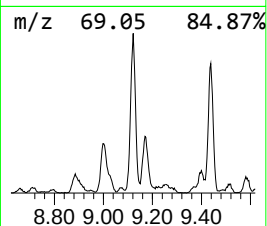
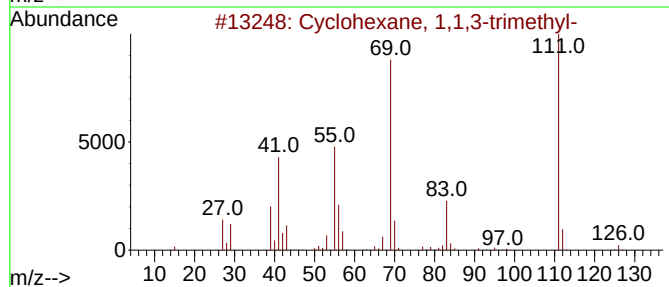
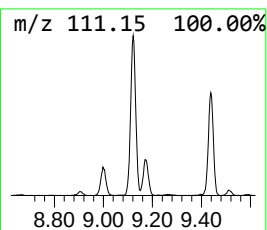
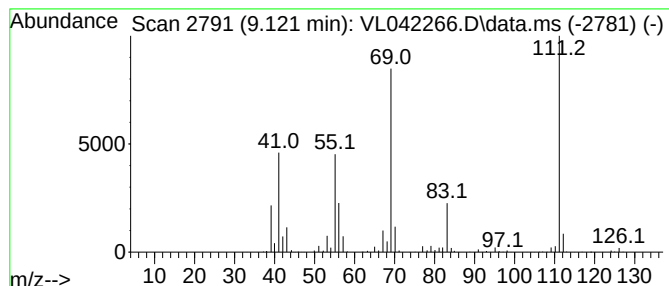
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 4 Cyclohexane, 1,1,3-trimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.121	4.79 ppbv	1109740	Chlorobenzene-d5	8.901

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	91
2			Cyclohexane, 1,3,5-trimethyl-, (...)	126	C9H18	001795-27-3	72
3			Cyclohexane, 1,3,5-trimethyl-	126	C9H18	001839-63-0	64
4			Cyclohexane, 1,2,4-trimethyl-	126	C9H18	002234-75-5	56
5			Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	50



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042266.D
Acq On : 08 Apr 2025 16:27
Operator : SY/MD
Sample : Q1728-09 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025

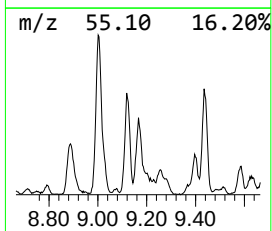
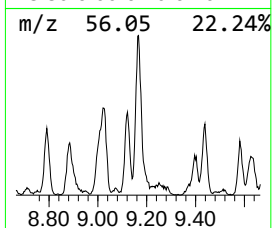
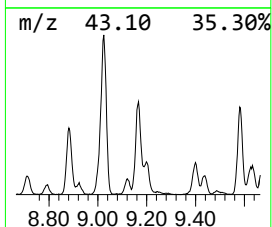
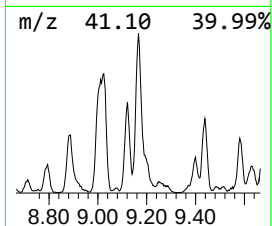
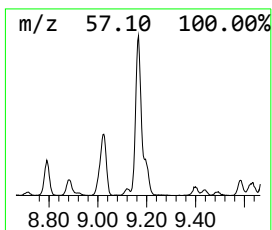
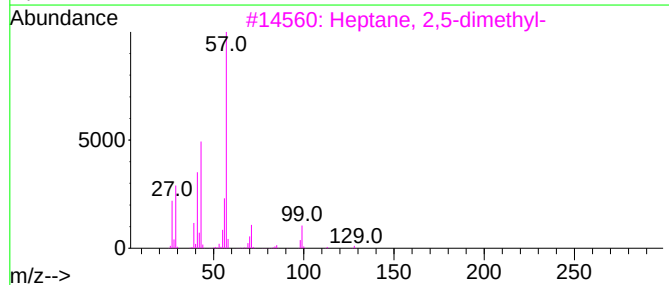
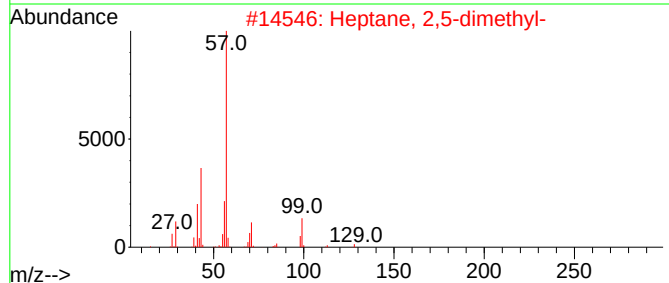
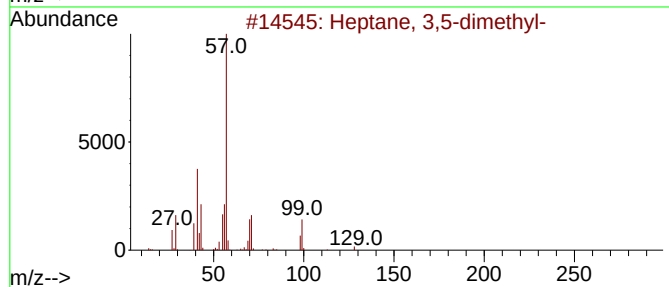
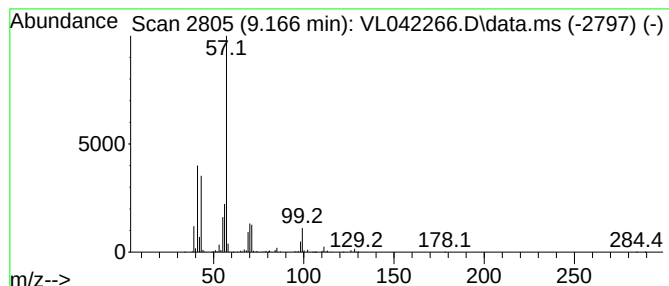
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 5 Heptane, 3,5-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.166	9.40 ppbv	2178770	Chlorobenzene-d5	8.901

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Heptane, 3,5-dimethyl-	128	C9H20	000926-82-9	87
2			Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	81
3			Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	81
4			Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	68
5			Octane, 3-methyl-	128	C9H20	002216-33-3	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042266.D
Acq On : 08 Apr 2025 16:27
Operator : SY/MD
Sample : Q1728-09 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025

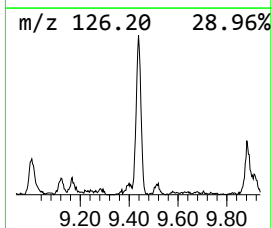
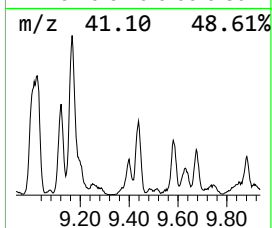
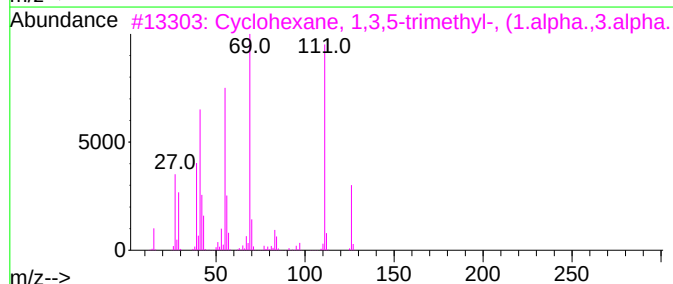
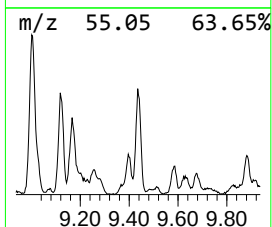
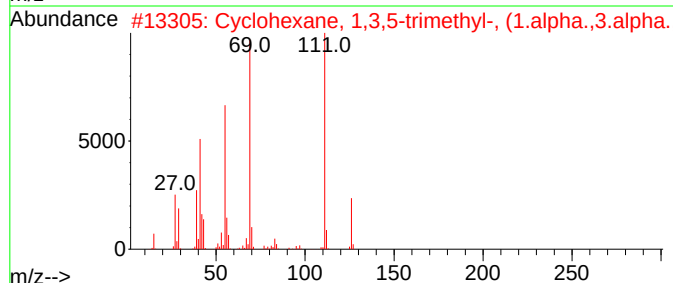
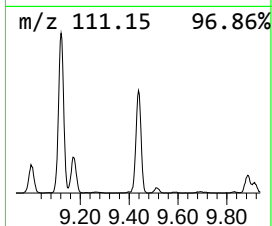
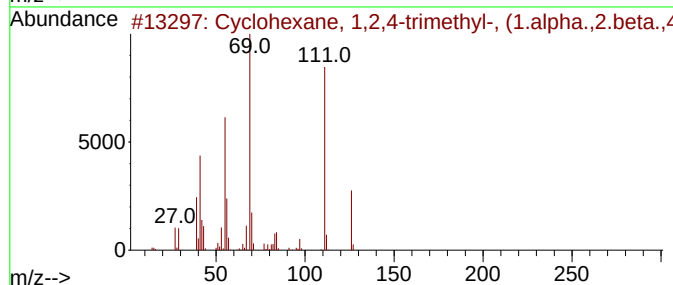
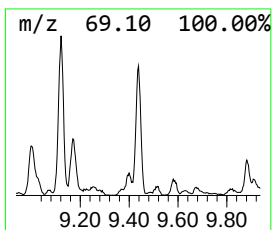
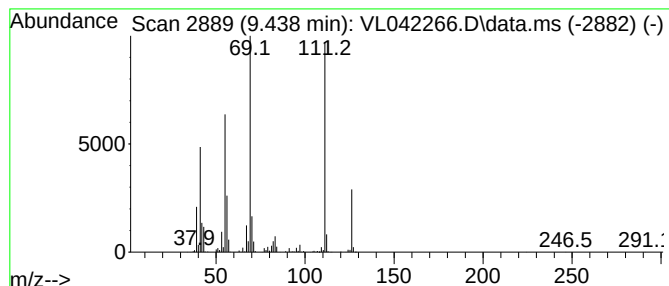
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 6 Cyclohexane, 1,2,4-trimethyl... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.438	4.08 ppbv	944531	Chlorobenzene-d5	8.901

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Cyclohexane, 1,2,4-trimethyl-, (...	126	C9H18	007667-60-9	94
2		Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-27-3	93
3		Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-26-2	91
4		Cyclohexane, 1,2,4-trimethyl-	126	C9H18	002234-75-5	91
5		Cyclohexane, 1,3,5-trimethyl-	126	C9H18	001839-63-0	90



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042266.D
Acq On : 08 Apr 2025 16:27
Operator : SY/MD
Sample : Q1728-09 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

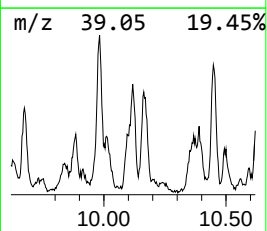
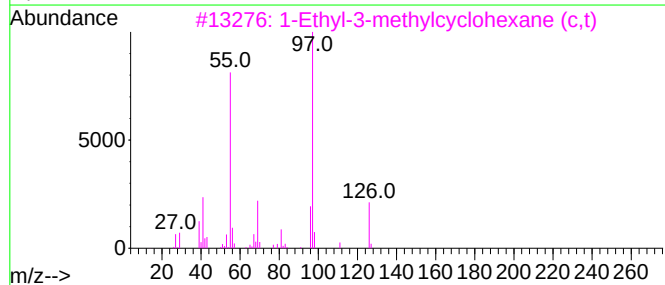
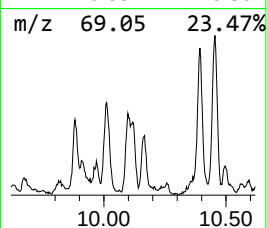
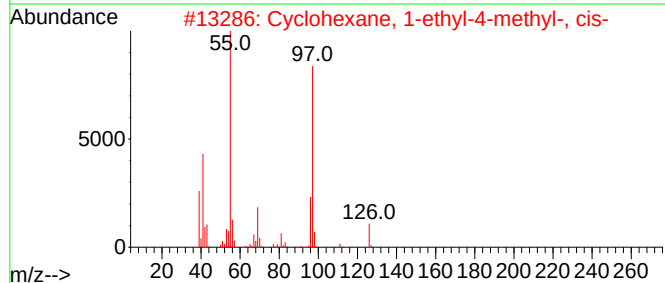
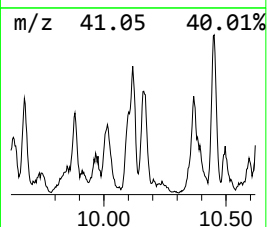
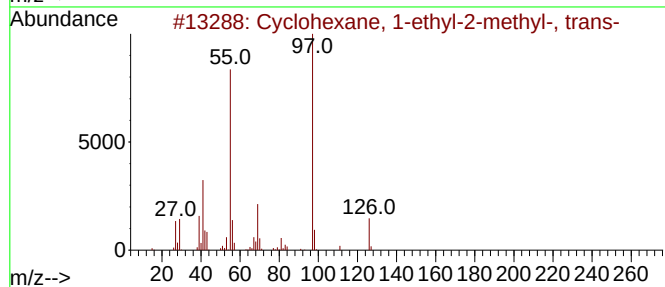
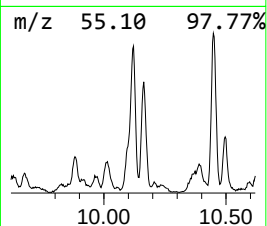
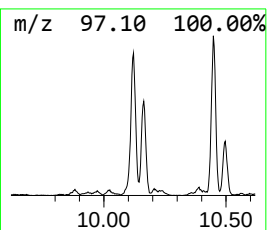
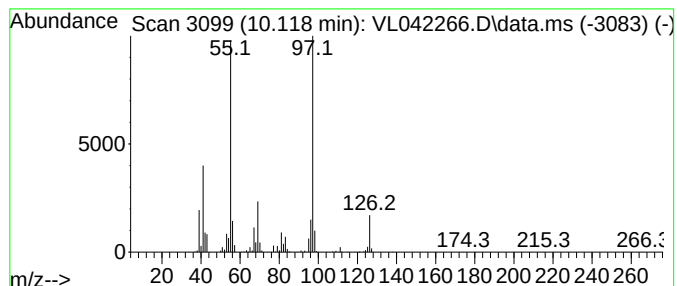
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025

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 Cyclohexane, 1-ethyl-2-meth... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD			R.T.
10.118	4.83 ppbv	1118890	Chlorobenzene-d5			8.901
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-ethyl-2-methyl-, ...		126	C9H18	004923-78-8	93
2	Cyclohexane, 1-ethyl-4-methyl-, ...		126	C9H18	004926-78-7	93
3	1-Ethyl-3-methylcyclohexane (c,t)		126	C9H18	003728-55-0	91
4	1-Ethyl-4-methylcyclohexane		126	C9H18	003728-56-1	91
5	Cyclohexane, 1-ethyl-4-methyl-, ...		126	C9H18	006236-88-0	90



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042266.D
Acq On : 08 Apr 2025 16:27
Operator : SY/MD
Sample : Q1728-09 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025

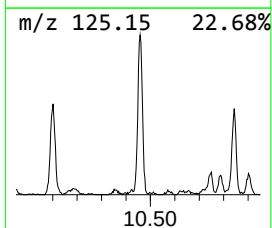
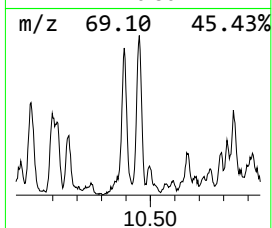
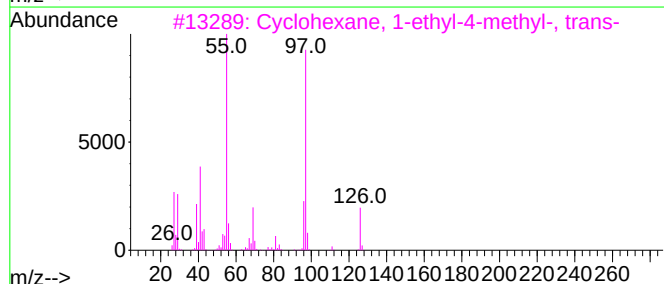
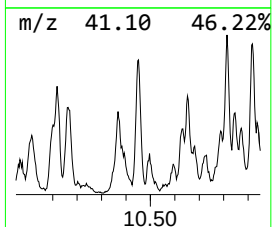
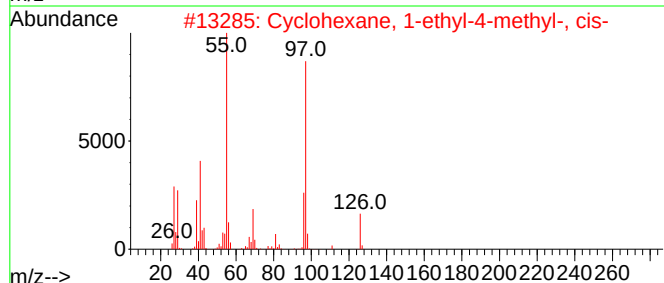
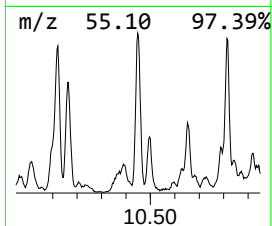
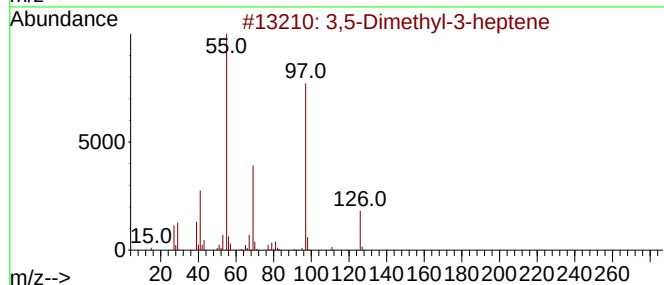
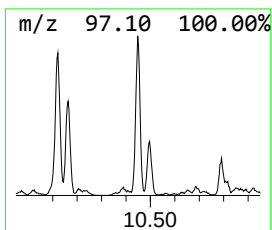
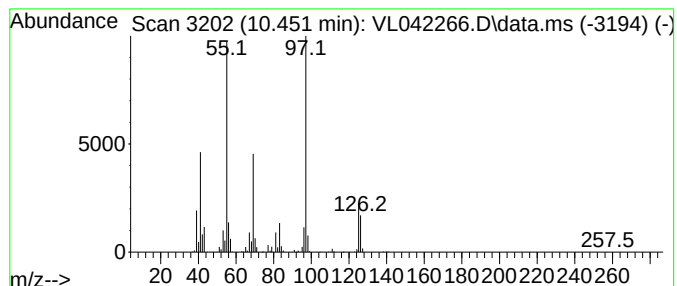
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 8 3,5-Dimethyl-3-heptene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.451	3.94 ppbv	912569	Chlorobenzene-d5	8.901

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			3,5-Dimethyl-3-heptene	126	C9H18	059643-68-4	76
2			Cyclohexane, 1-ethyl-4-methyl-, ...	126	C9H18	004926-78-7	76
3			Cyclohexane, 1-ethyl-4-methyl-, ...	126	C9H18	006236-88-0	76
4			Cyclohexane, 1-ethyl-4-methyl-, ...	126	C9H18	004926-78-7	76
5			Cyclohexane, 1-ethyl-2-methyl-	126	C9H18	003728-54-9	68



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042266.D
Acq On : 08 Apr 2025 16:27
Operator : SY/MD
Sample : Q1728-09 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025

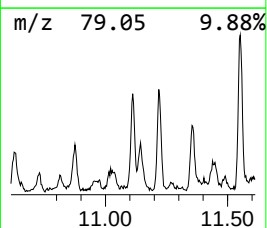
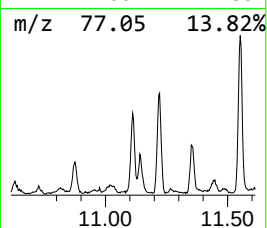
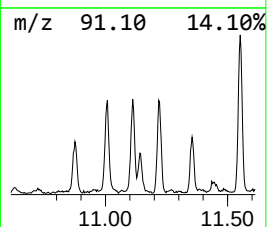
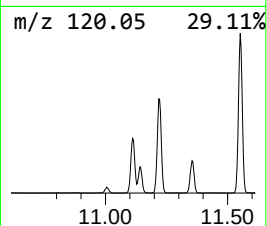
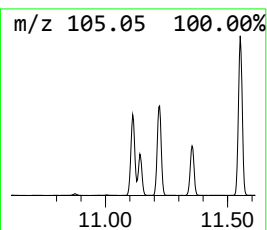
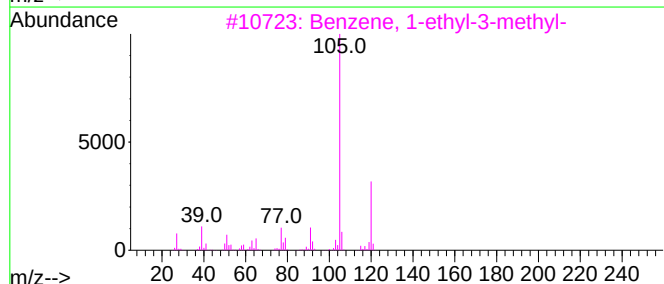
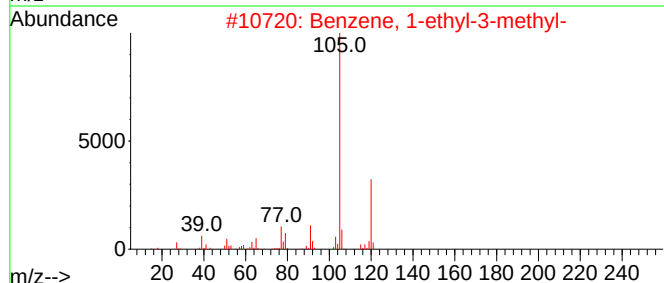
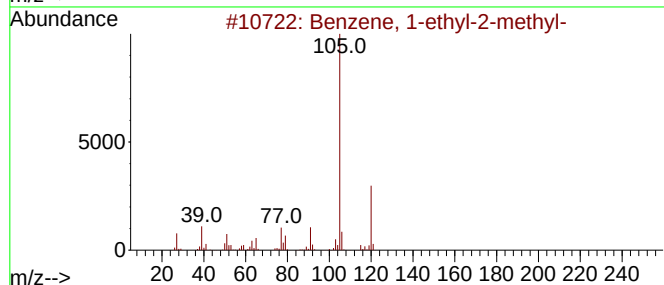
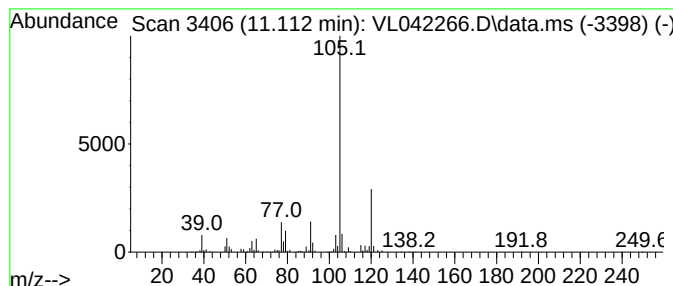
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 9 Benzene, 1-ethyl-2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.112	5.03 ppbv	1166200	Chlorobenzene-d5	8.901

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
2			Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	94
3			Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	94
4			Mesitylene	120	C9H12	000108-67-8	91
5			Mesitylene	120	C9H12	000108-67-8	91



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042266.D
Acq On : 08 Apr 2025 16:27
Operator : SY/MD
Sample : Q1728-09 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025

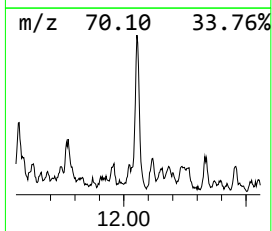
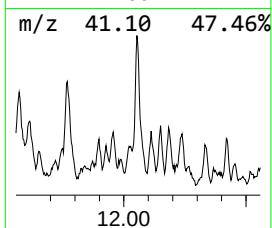
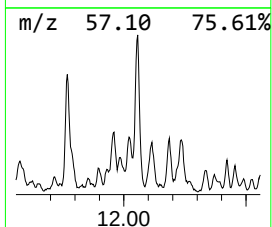
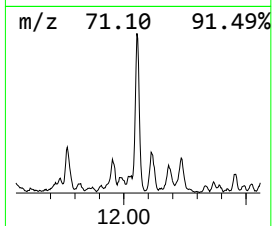
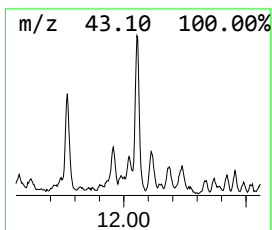
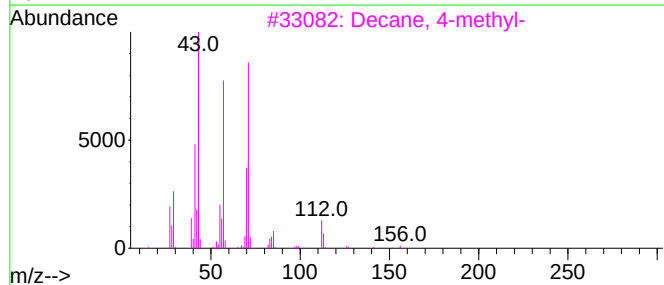
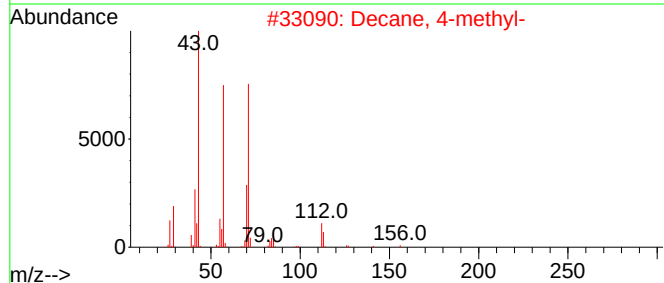
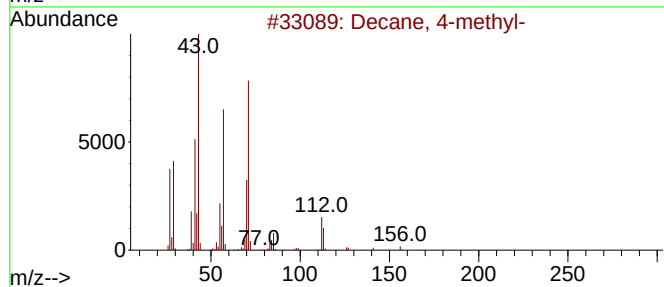
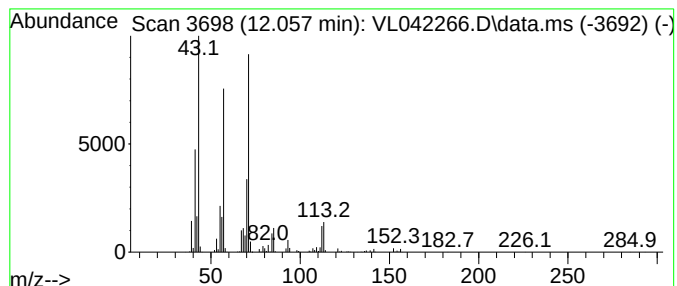
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 10 Decane, 4-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.057	4.70 ppbv	1089130	Chlorobenzene-d5	8.901

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Decane, 4-methyl-	156	C11H24	002847-72-5	94
2		Decane, 4-methyl-	156	C11H24	002847-72-5	94
3		Decane, 4-methyl-	156	C11H24	002847-72-5	93
4		Nonane, 2,6-dimethyl-	156	C11H24	017302-28-2	91
5		Octane, 3,3-dimethyl-	142	C10H22	004110-44-5	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042266.D
Acq On : 08 Apr 2025 16:27
Operator : SY/MD
Sample : Q1728-09 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025

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\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Cyclohexane, et...	9.005	5.5	ppbv	1279840	3	8.901	2316670	10.0
Tridecane, 4-me...	9.021	4.5	ppbv	1049230	3	8.901	2316670	10.0
Cyclohexane, 1,...	9.121	4.8	ppbv	1109740	3	8.901	2316670	10.0
Heptane, 3,5-di...	9.166	9.4	ppbv	2178770	3	8.901	2316670	10.0
Cyclohexane, 1,...	9.438	4.1	ppbv	944531	3	8.901	2316670	10.0
Cyclohexane, 1-...	10.118	4.8	ppbv	1118890	3	8.901	2316670	10.0
3,5-Dimethyl-3-...	10.451	3.9	ppbv	912569	3	8.901	2316670	10.0
Benzene, 1-ethy...	11.112	5.0	ppbv	1166200	3	8.901	2316670	10.0
Decane, 4-methyl-	12.057	4.7	ppbv	1089130	3	8.901	2316670	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-B14-4-04012025	SDG No.:	Q1728
Lab Sample ID:	Q1728-10	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
VL042283.D	2		04/09/25 02:51	VL040825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.51	2.52	J	2.08	4.94	ug/m3
74-87-3	Chloromethane	0.50	1.03	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	25.4	60.3		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	7.30	25.4		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	0.66	1.95	J	0.71	2.95	ug/m3
56-23-5	Carbon Tetrachloride	0.080	0.50		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	0.17	0.83	U	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	0.54	2.03	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-B14-4-04012025	SDG No.:	Q1728
Lab Sample ID:	Q1728-10	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
VL042283.D	2		04/09/25 02:51	VL040825

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	0.030	0.20	U	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	0.42	1.82	J	1.04	4.34	ug/m3
179601-23-1	m/p-Xylene	1.70	7.38	J	1.82	8.69	ug/m3
95-47-6	o-Xylene	0.39	1.69	J	1.04	4.34	ug/m3
100-42-5	Styrene	0.24	1.02	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	0.21	1.03	J	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	1.60	5.64		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	10.2		70 (65) - 130 (135)	102%	SPK: 10

INTERNAL STANDARDS

74-97-5	Bromochloromethane	155000	2.79
540-36-3	1,4-Difluorobenzene	388000	3.962
3114-55-4	Chlorobenzene-d5	342000	8.882

TENTATIVE IDENTIFIED COMPOUNDS

75-45-6	Chlorodifluoromethane	0.27	J	1.48	ppbv
115-07-1	Propene	1.10	J	1.49	ppbv
64-17-5	Ethanol	15.2	J	1.72	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-B14-4-04012025	SDG No.:	Q1728
Lab Sample ID:	Q1728-10	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
VL042283.D	2		04/09/25 02:51	VL040825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
67-63-0	Isopropyl Alcohol	44.9		J		1.89	ppbv
000105-37-3	Propanoic acid, ethyl ester	4.50		J		4.91	ppbv
000590-01-2	Propanoic acid, butyl ester	8.30		J		10.2	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 : VL042283.D
 Acq On : 09 Apr 2025 02:51
 Operator : SY/MD
 Sample : Q1728-10 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B14-4-04012025

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
 Supervised By :Semsettin Yesilyurt 04/10/2025

Quant Time: Apr 09 05:22:36 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	2.790	49	155290	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	388359	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	341830	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	287523	10.243	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.400%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	5799	0.253	ppbv	98
3) Chlorodifluoromethane	1.476	51	3190m	0.136	ppbv	
4) Chloromethane	1.535	50	2332	0.249	ppbv	97
9) Propene	1.489	41	5720m	0.533	ppbv	
11) Trichlorofluoromethane	1.878	101	2544m	0.114	ppbv	
13) Ethanol	1.722	45	7713	7.600	ppbv #	27
15) Acetone	1.836	43	276321	12.723	ppbv	97
19) Isopropyl Alcohol	1.887	45	274802	22.426	ppbv #	33
20) Methylene Chloride	2.062	84	29400	3.635	ppbv	87
26) Hexane	2.829	57	17021	0.782	ppbv #	33
34) 2-Butanone	2.564	43	9233	0.328	ppbv	95
35) Carbon Tetrachloride	3.768	117	1164m	0.038	ppbv	
53) Toluene	6.937	91	12300	0.270	ppbv	97
58) Ethyl Benzene	9.358	91	12642	0.208	ppbv #	85
59) m/p-Xylene	9.532	91	39977	0.825	ppbv	99
60) o-Xylene	9.966	91	9522	0.196	ppbv	99
61) Styrene	9.866	104	2930m	0.122	ppbv	
74) 1,2,4-Trimethylbenzene	11.539	105	6419	0.105	ppbv #	61

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

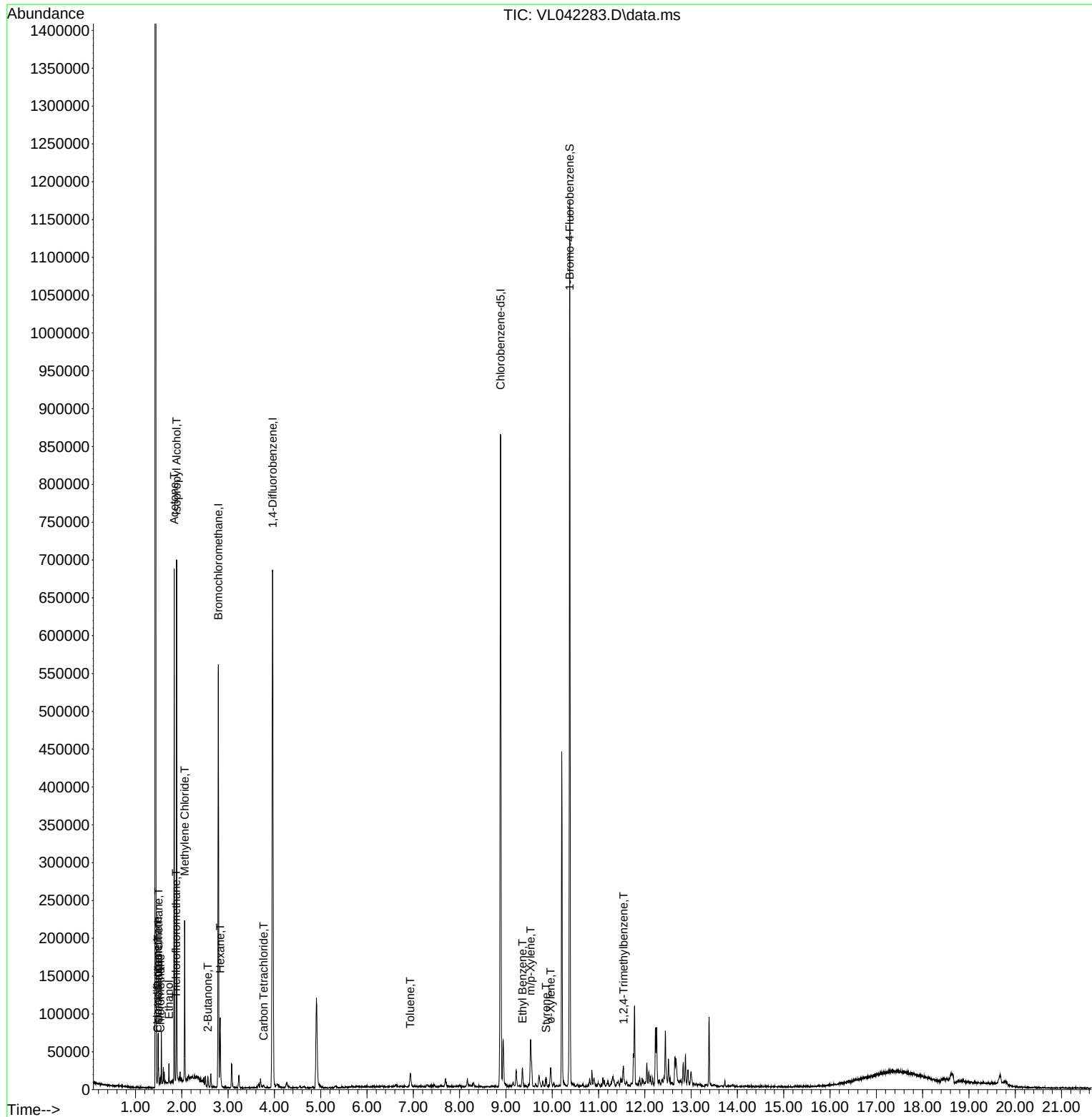
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Data File : VL042283.D
Acq On : 09 Apr 2025 02:51
Operator : SY/MD
Sample : Q1728-10 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

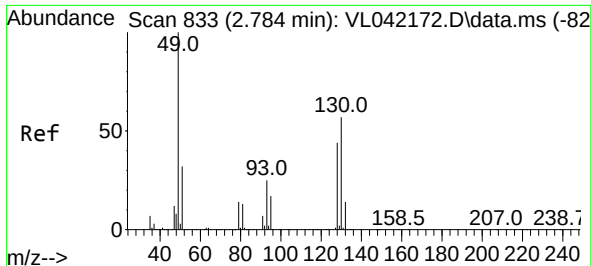
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04012025

Quant Time: Apr 09 05:22:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

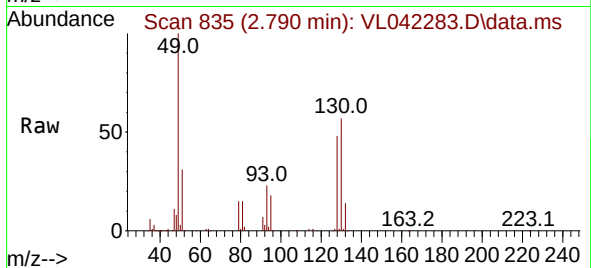
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 833
Delta R.T. 0.006 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

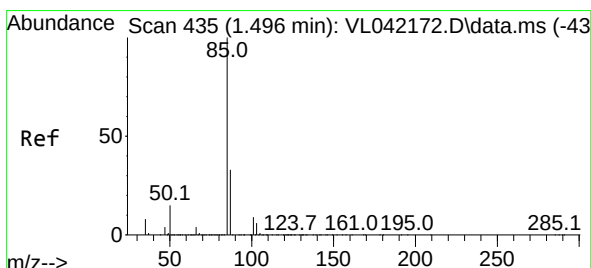
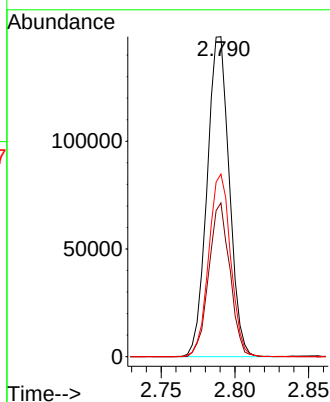
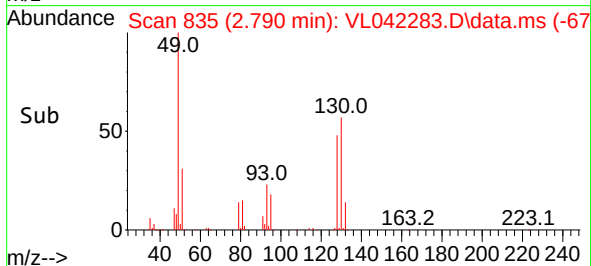
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04012025



Tgt Ion: 49 Resp: 155290
Ion Ratio Lower Upper
49 100
128 45.8 22.9 68.5
130 56.6 28.8 86.4

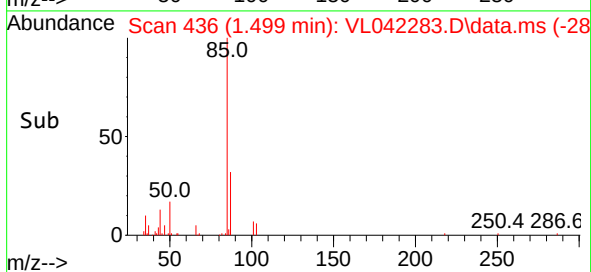
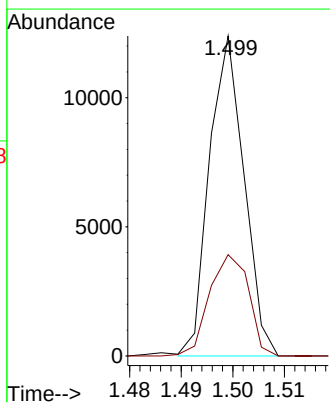
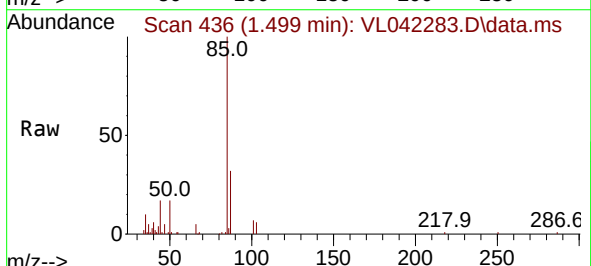
Manual Integrations
APPROVED

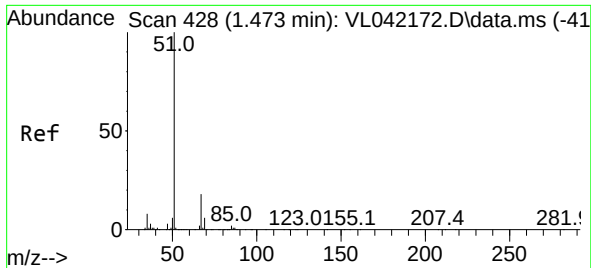
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#2
Dichlorodifluoromethane
Concen: 0.253 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

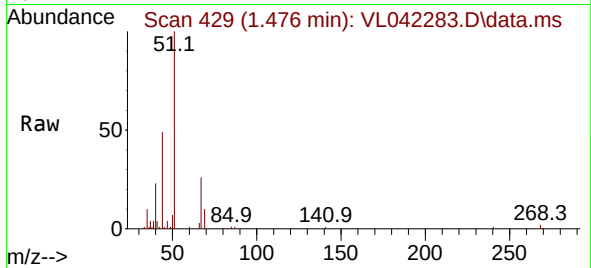
Tgt Ion: 85 Resp: 5799
Ion Ratio Lower Upper
85 100
87 31.7 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.136 ppbv m
RT: 1.476 min Scan# 429
Delta R.T. 0.003 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

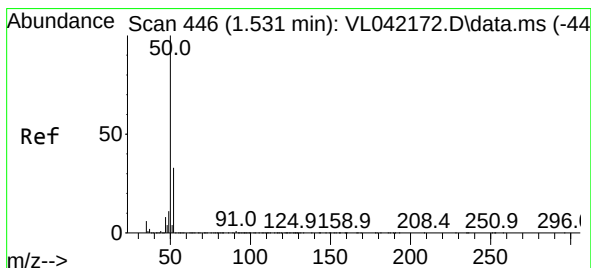
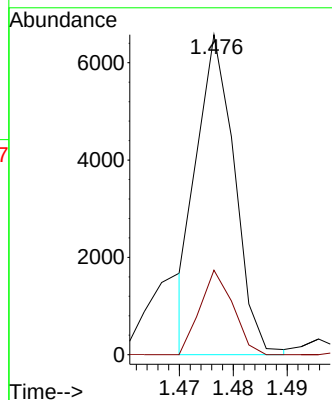
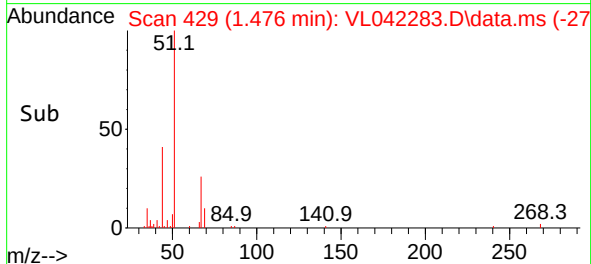
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04012025



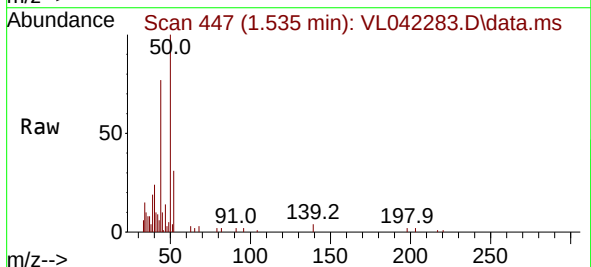
Tgt Ion: 51 Resp: 3190
Ion Ratio Lower Upper
51 100
67 23.6 15.0 22.6

Manual Integrations
APPROVED

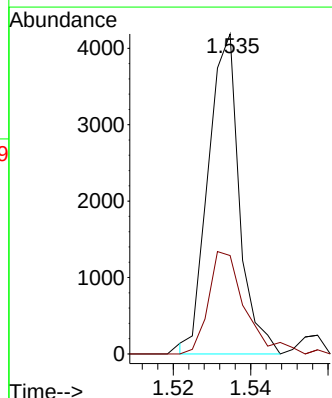
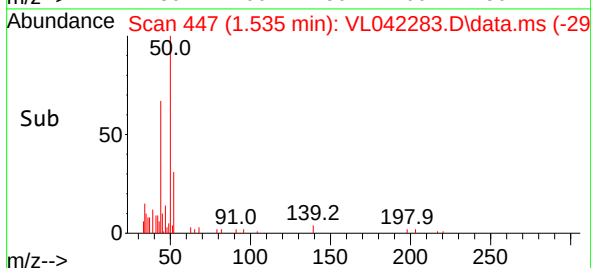
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

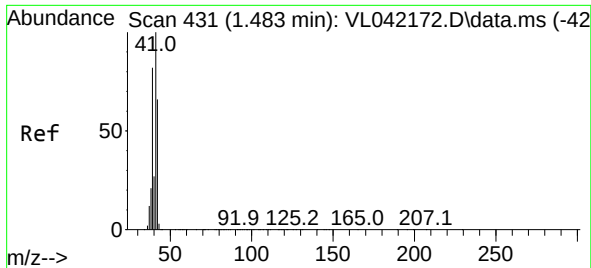


#4
Chloromethane
Concen: 0.249 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51



Tgt Ion: 50 Resp: 2332
Ion Ratio Lower Upper
50 100
52 30.8 26.1 39.1





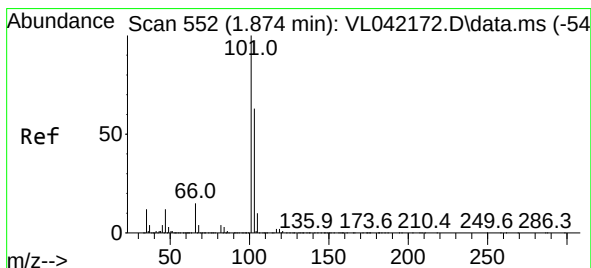
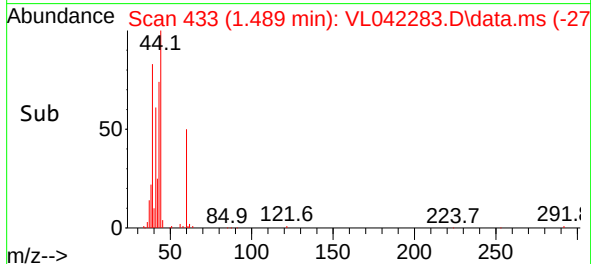
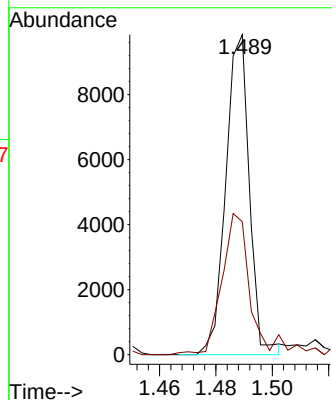
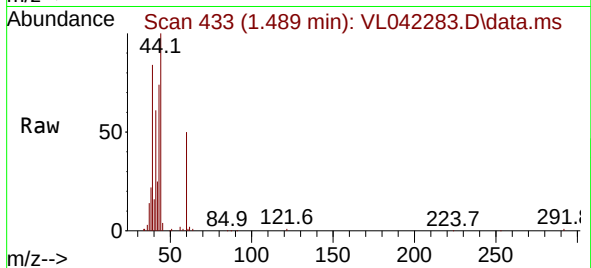
#9
Propene
Concen: 0.533 ppbv m
RT: 1.489 min Scan# 41
Delta R.T. 0.007 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04012025

Tgt Ion: 41 Resp: 5720
Ion Ratio Lower Upper
41 100
42 292.1 55.4 83.2

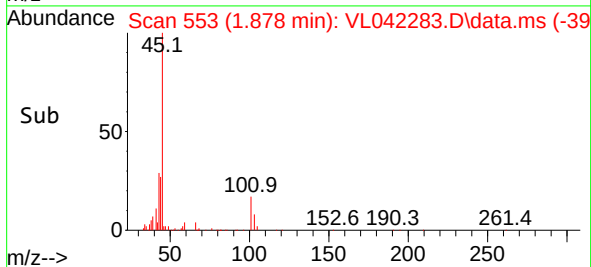
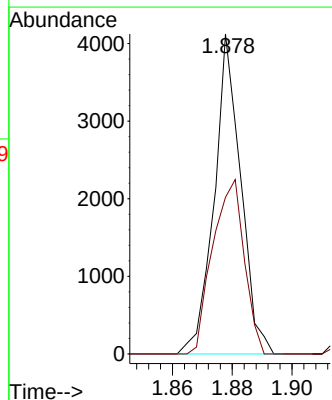
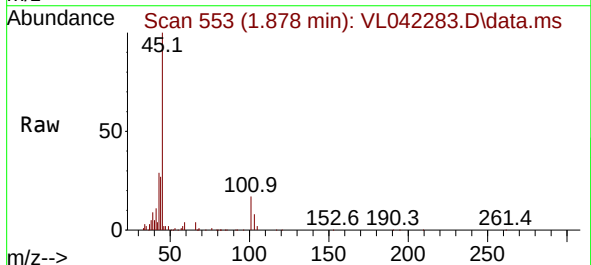
Manual Integrations
APPROVED

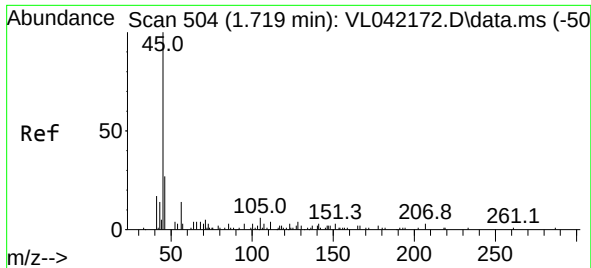
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#11
Trichlorofluoromethane
Concen: 0.114 ppbv m
RT: 1.878 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

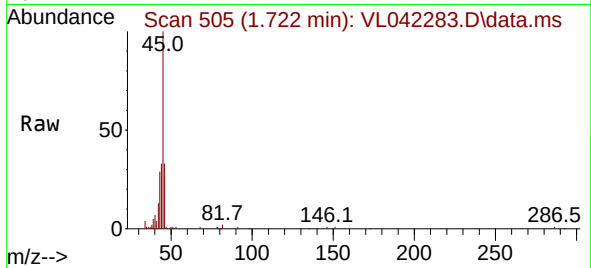
Tgt Ion:101 Resp: 2544
Ion Ratio Lower Upper
101 100
103 49.0 50.2 75.2





#13
Ethanol
Concen: 7.600 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

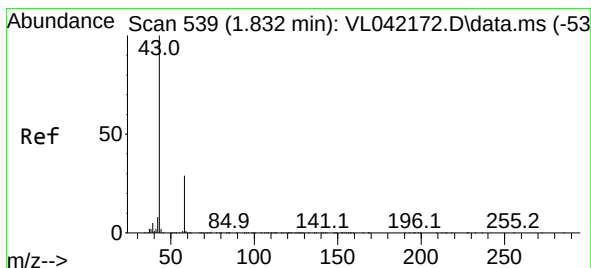
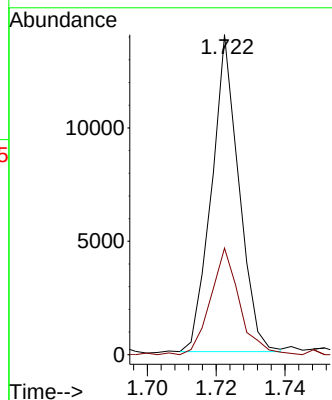
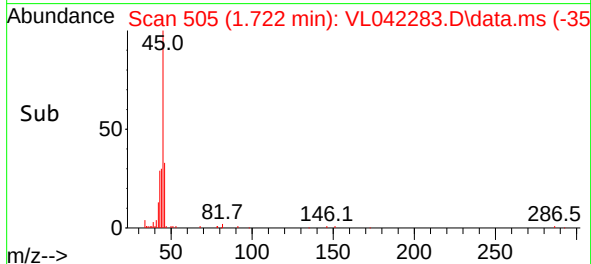
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04012025



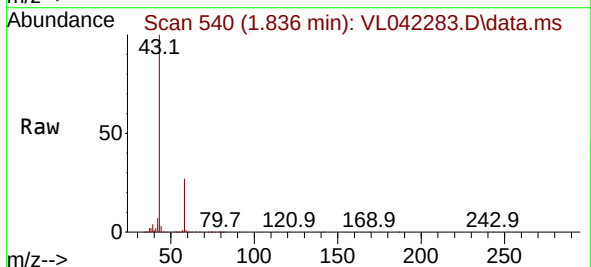
Tgt Ion: 45 Resp: 7711
Ion Ratio Lower Upper
45 100
46 0.0 20.2 80.8

Manual Integrations
APPROVED

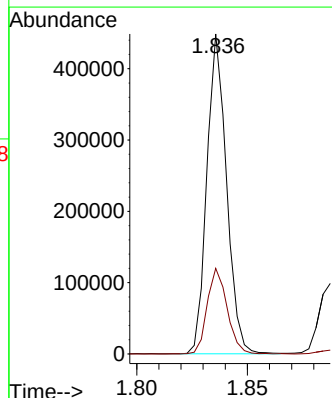
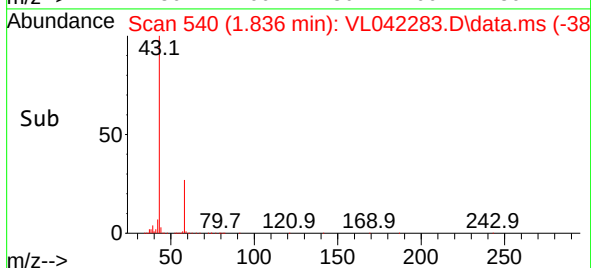
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

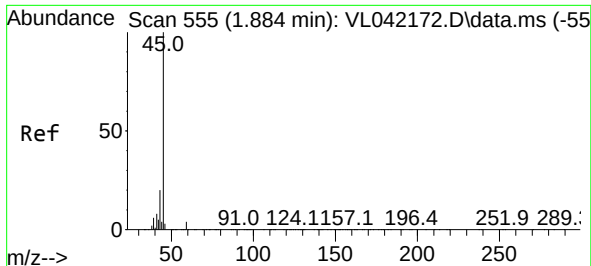


#15
Acetone
Concen: 12.723 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51



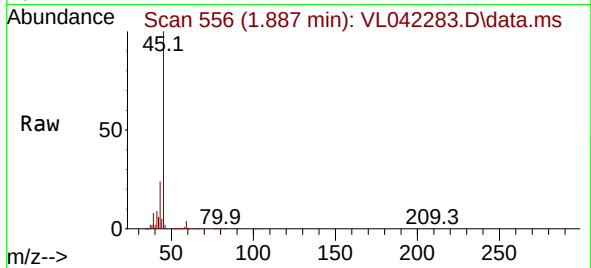
Tgt Ion: 43 Resp: 276321
Ion Ratio Lower Upper
43 100
58 27.2 23.2 34.8





#19
Isopropyl Alcohol
Concen: 22.426 ppbv
RT: 1.887 min Scan# 510
Delta R.T. 0.003 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

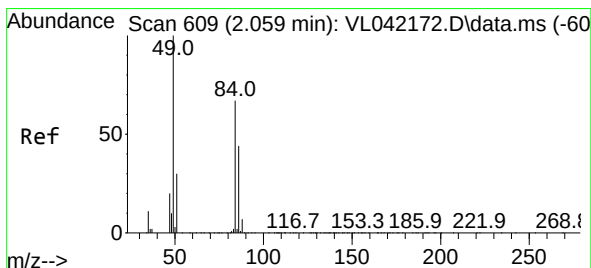
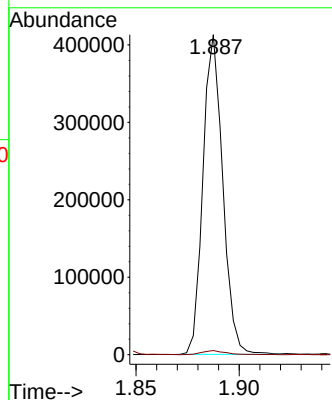
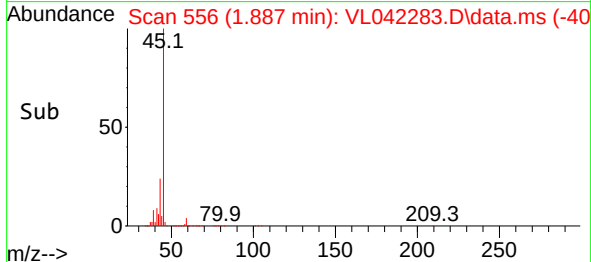
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04012025



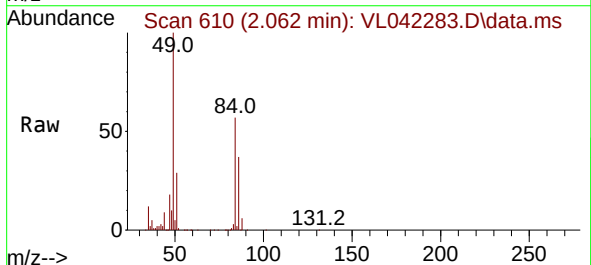
Tgt Ion: 45 Resp: 27480
Ion Ratio Lower Upper
45 100
58 1.6 36.9 55.3

Manual Integrations
APPROVED

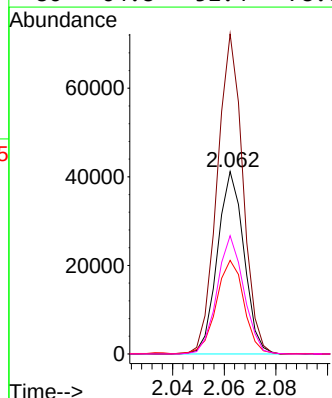
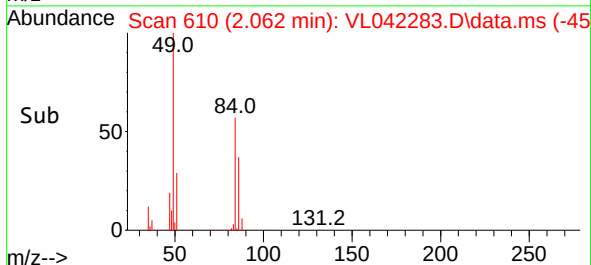
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

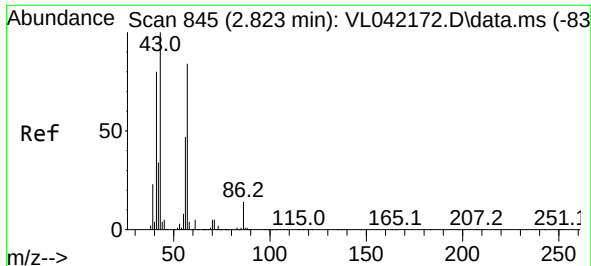


#20
Methylene Chloride
Concen: 3.635 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51



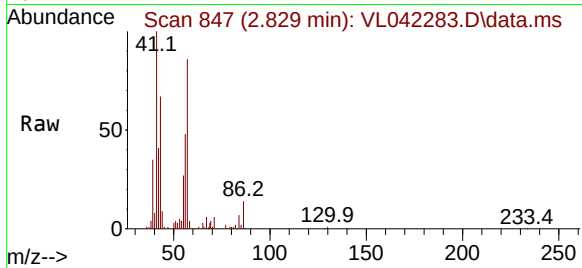
Tgt Ion: 84 Resp: 29400
Ion Ratio Lower Upper
84 100
49 175.5 120.2 180.4
51 51.2 37.4 56.0
86 64.8 52.4 78.6





#26
Hexane
Concen: 0.782 ppbv
RT: 2.829 min Scan# 845
Delta R.T. 0.007 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

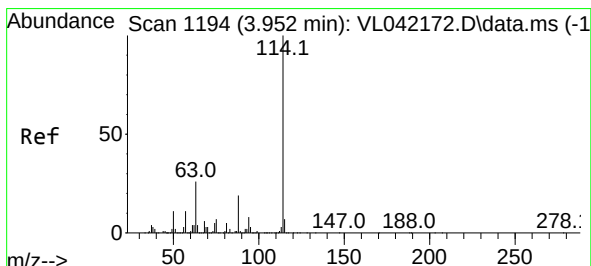
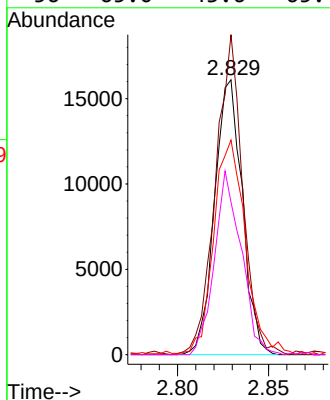
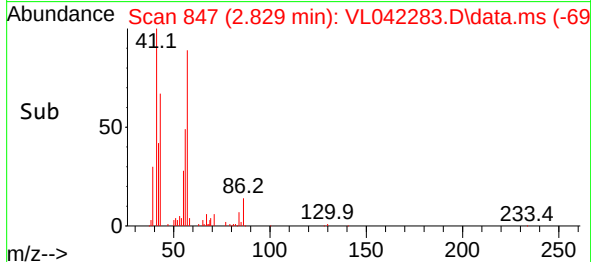
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04012025



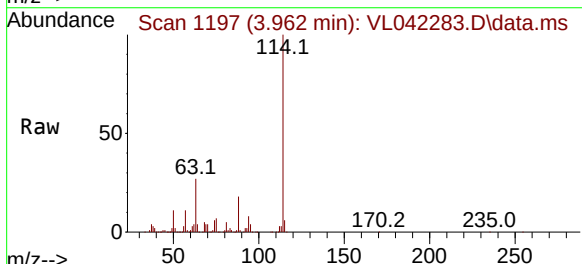
Tgt Ion: 57 Resp: 1702
Ion Ratio Lower Upper
57 100
41 115.7 76.6 114.8
43 90.5 207.8 311.8
56 65.0 43.6 65.4

Manual Integrations
APPROVED

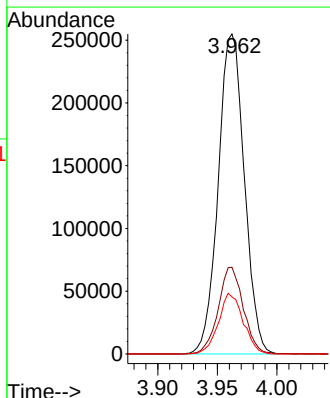
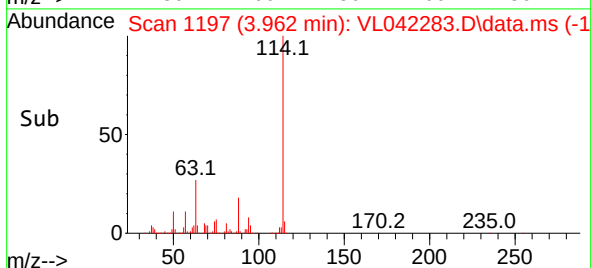
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

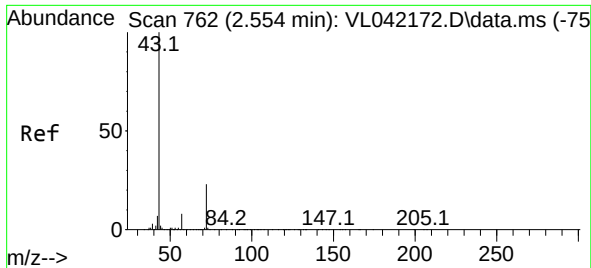


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.010 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51



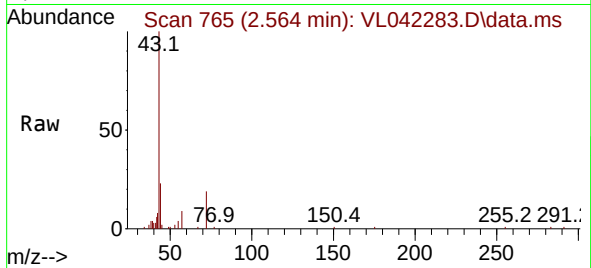
Tgt Ion:114 Resp: 388359
Ion Ratio Lower Upper
114 100
63 26.0 20.7 31.1
88 17.9 15.0 22.4





#34
2-Butanone
Concen: 0.328 ppbv
RT: 2.564 min Scan# 70
Delta R.T. 0.010 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

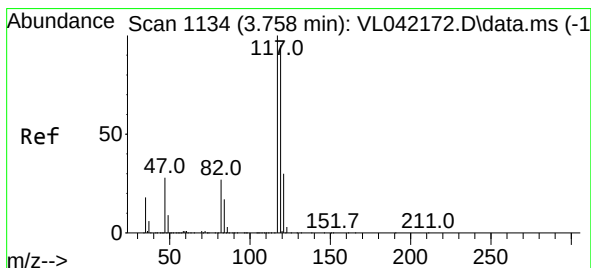
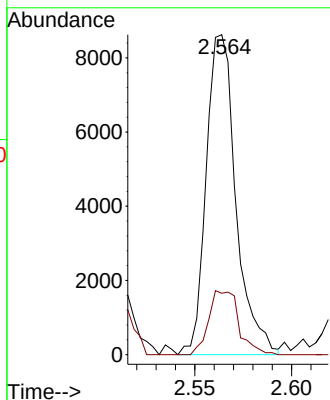
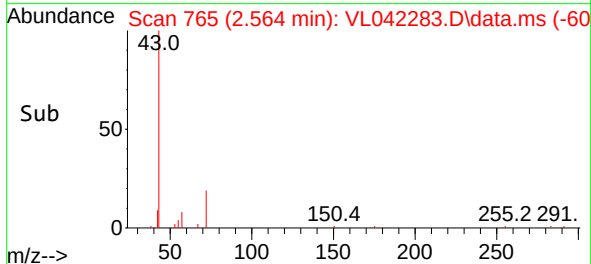
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04012025



Tgt Ion: 43 Resp: 923
Ion Ratio Lower Upper
43 100
72 20.1 18.2 27.2

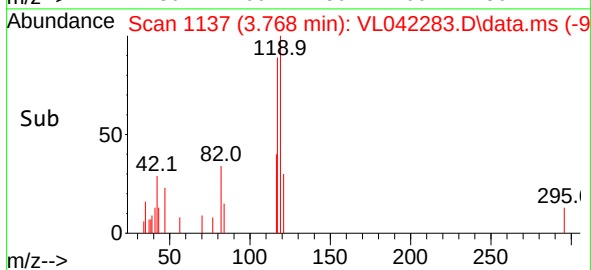
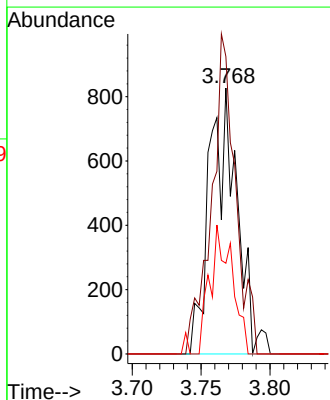
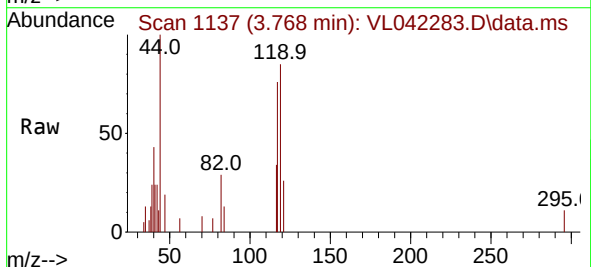
Manual Integrations
APPROVED

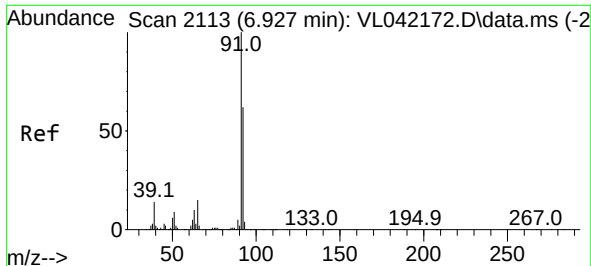
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#35
Carbon Tetrachloride
Concen: 0.038 ppbv m
RT: 3.768 min Scan# 1137
Delta R.T. 0.010 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

Tgt Ion:117 Resp: 1164
Ion Ratio Lower Upper
117 100
119 111.9 76.2 114.2
121 34.1 24.2 36.4





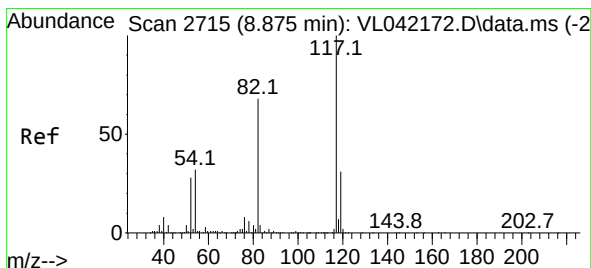
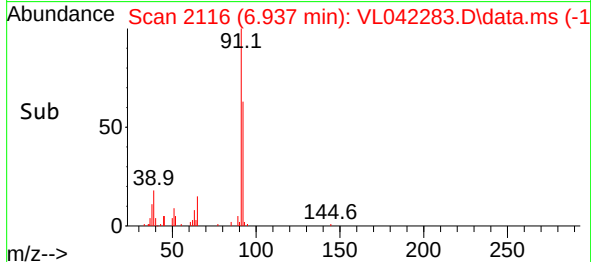
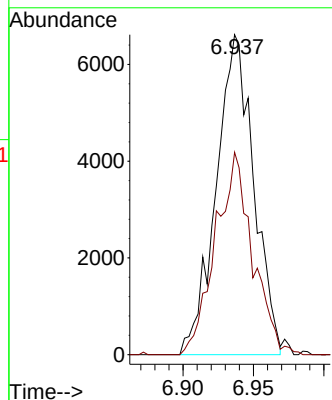
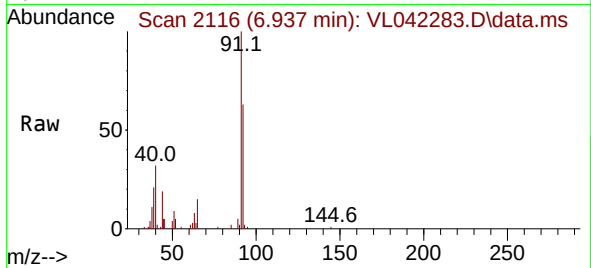
#53
Toluene
Concen: 0.270 ppbv
RT: 6.937 min Scan# 2113
Delta R.T. 0.010 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04012025

Tgt Ion: 91 Resp: 12300
Ion Ratio Lower Upper
91 100
92 62.5 48.4 72.6

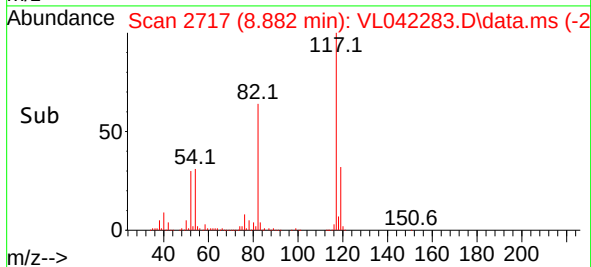
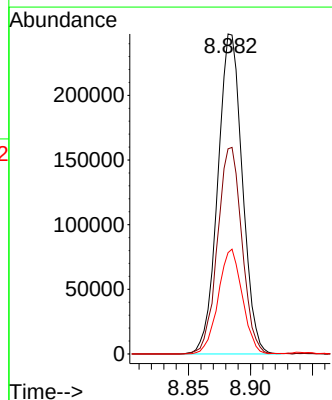
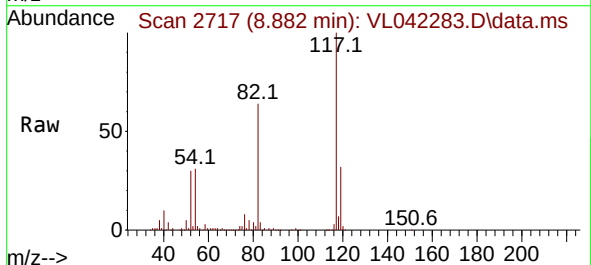
Manual Integrations
APPROVED

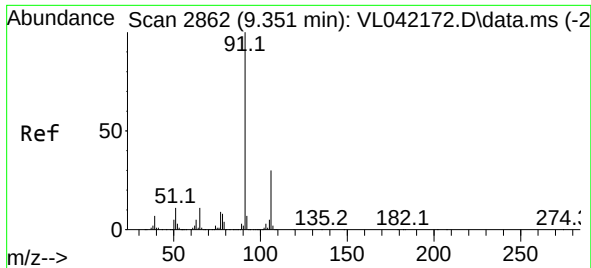
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.007 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

Tgt Ion:117 Resp: 341830
Ion Ratio Lower Upper
117 100
82 64.4 55.8 83.6
119 32.1 25.5 38.3





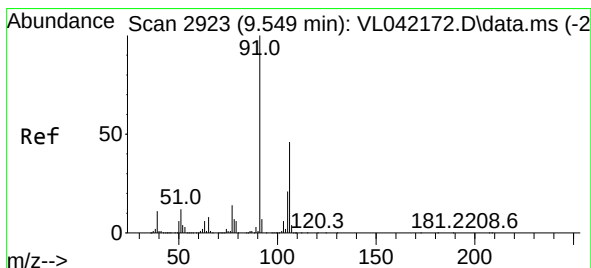
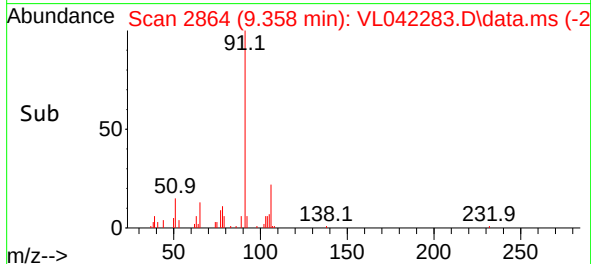
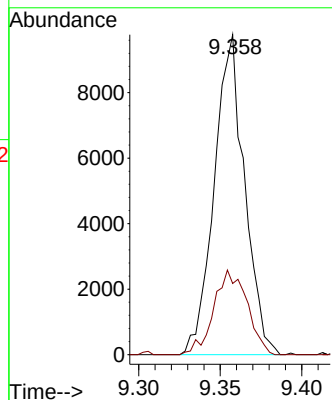
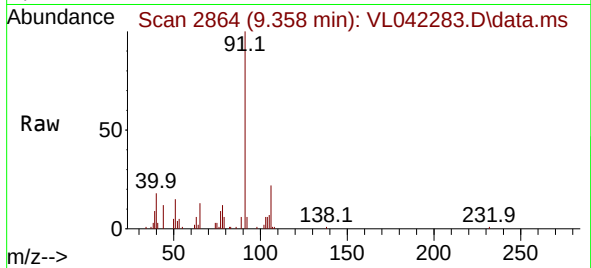
#58
Ethyl Benzene
Concen: 0.208 ppbv
RT: 9.358 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04012025

Tgt Ion: 91 Resp: 1264
Ion Ratio Lower Upper
91 100
106 22.2 24.2 36.2

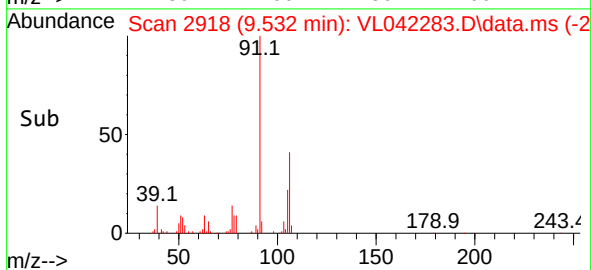
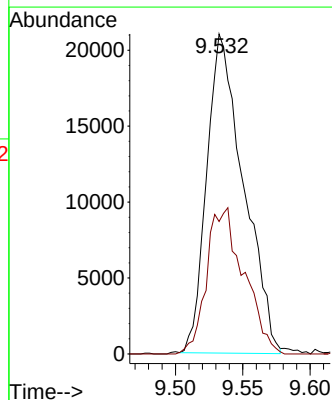
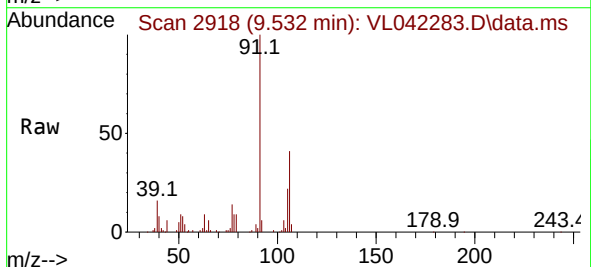
Manual Integrations
APPROVED

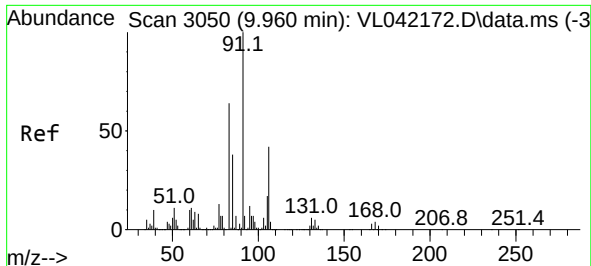
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#59
m/p-Xylene
Concen: 0.825 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. -0.016 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

Tgt Ion: 91 Resp: 39977
Ion Ratio Lower Upper
91 100
106 46.4 36.4 54.6





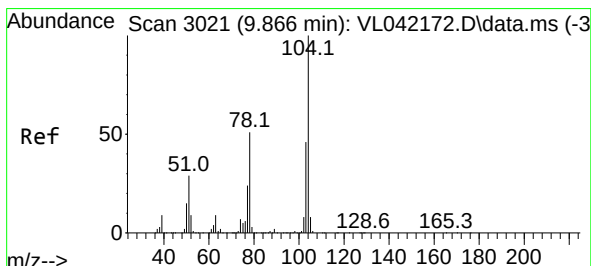
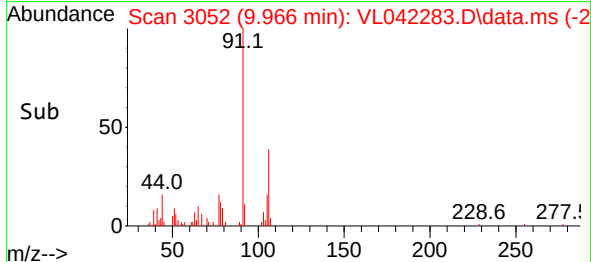
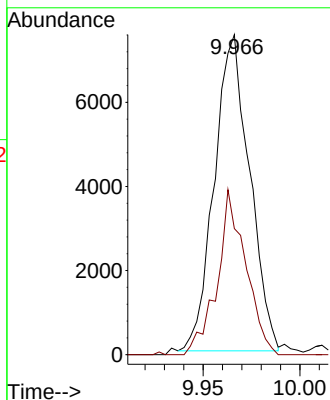
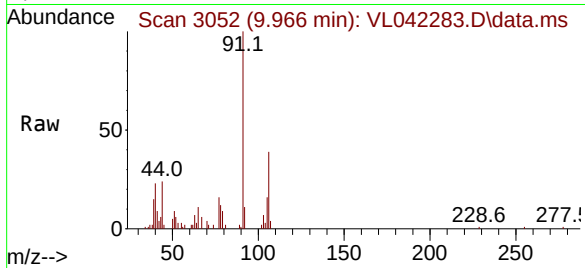
#60
o-Xylene
Concen: 0.196 ppbv
RT: 9.966 min Scan# 3050
Delta R.T. 0.007 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04012025

Tgt Ion: 91 Resp: 952
Ion Ratio Lower Upper
91 100
106 42.3 20.8 62.5

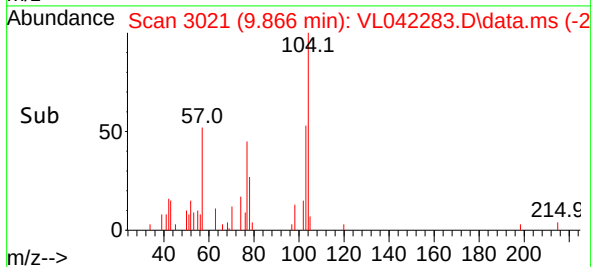
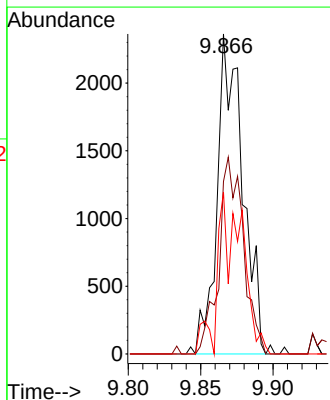
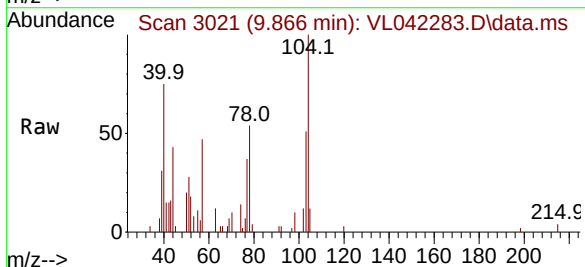
Manual Integrations
APPROVED

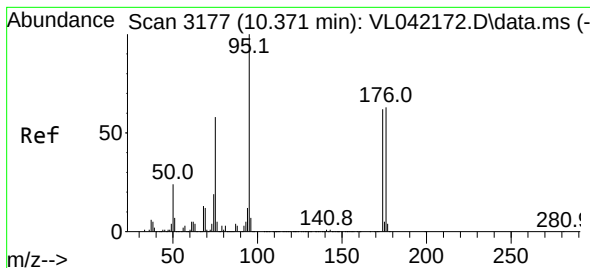
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#61
Styrene
Concen: 0.122 ppbv m
RT: 9.866 min Scan# 3021
Delta R.T. 0.000 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

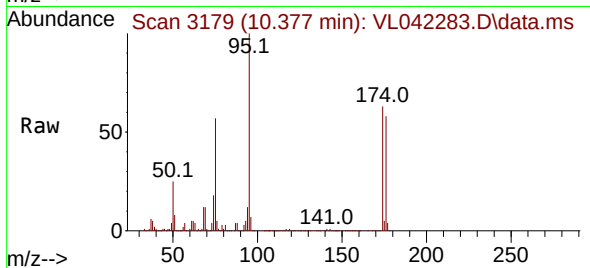
Tgt Ion:104 Resp: 2930
Ion Ratio Lower Upper
104 100
78 0.0 41.8 62.6#
103 0.0 37.0 55.4#





#68
1-Bromo-4-Fluorobenzene
Concen: 10.243 ppbv
RT: 10.377 min Scan# 3177
Delta R.T. 0.007 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

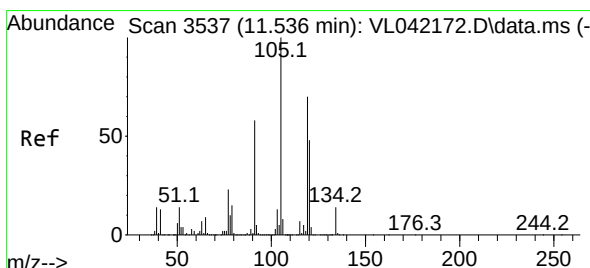
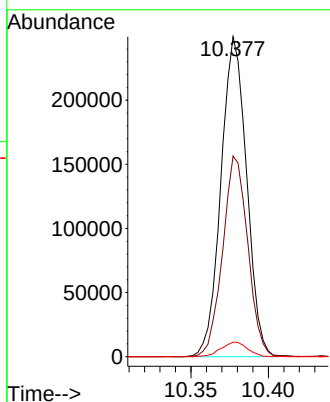
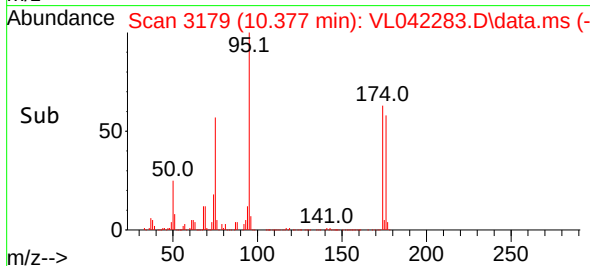
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04012025



Tgt Ion: 95 Resp: 28752
Ion Ratio Lower Upper
95 100
174 61.8 50.6 76.0
175 4.7 3.8 5.6

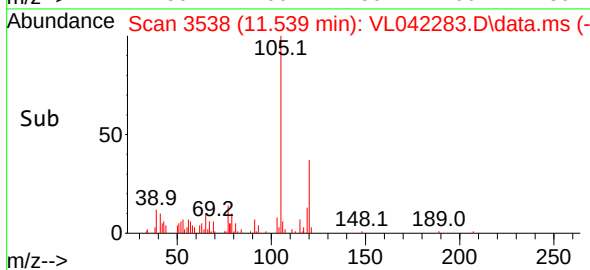
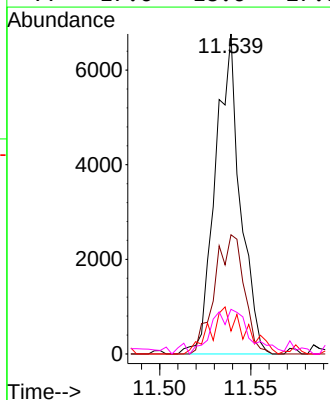
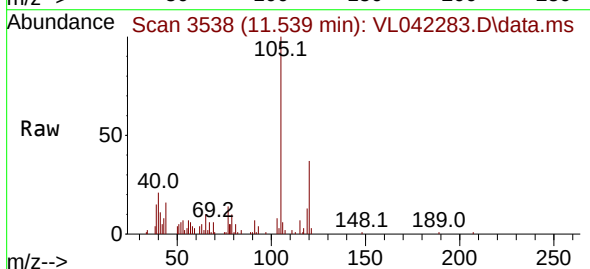
Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.105 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

Tgt Ion:105 Resp: 6419
Ion Ratio Lower Upper
105 100
120 37.3 38.6 58.0#
91 7.2 46.2 69.2#
77 17.6 18.6 27.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042283.D
 Acq On : 09 Apr 2025 02:51
 Operator : SY/MD
 Sample : Q1728-10 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B14-4-04012025

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: VL042283.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	410	415	421	rBV	4195112	4672405	100.00%	40.211%
2	1.836	535	540	549	rBV	678486	431681	9.24%	3.715%
3	1.887	549	556	566	rVV	688845	468669	10.03%	4.033%
4	2.062	600	610	618	rBV	212500	160702	3.44%	1.383%
5	2.790	822	835	841	rBV	559279	585258	12.53%	5.037%
6	2.829	841	847	859	rVB2	91691	109799	2.35%	0.945%
7	3.959	1183	1196	1209	rBV	684417	1041414	22.29%	8.963%
8	4.907	1478	1489	1507	rBV2	118911	236276	5.06%	2.033%
9	8.882	2703	2717	2728	rBV	862821	1212194	25.94%	10.432%
10	8.940	2728	2735	2744	rVB3	57752	90606	1.94%	0.780%
11	9.532	2909	2918	2934	rVB2	61809	129464	2.77%	1.114%
12	10.206	3117	3126	3138	rBV	441799	505992	10.83%	4.355%
13	10.377	3163	3179	3191	rBV	1169581	1374873	29.43%	11.832%
14	11.779	3606	3612	3622	rVB2	103126	123945	2.65%	1.067%
15	12.232	3742	3752	3755	rBV2	76694	91033	1.95%	0.783%
16	12.254	3755	3759	3768	rVB2	73499	87536	1.87%	0.753%
17	12.442	3810	3817	3831	rVB2	68512	95188	2.04%	0.819%
18	12.653	3874	3882	3885	rBV4	36293	48843	1.05%	0.420%
19	12.672	3885	3888	3904	rVB7	33024	54574	1.17%	0.470%
20	13.387	4101	4109	4118	rBV	91245	99194	2.12%	0.854%

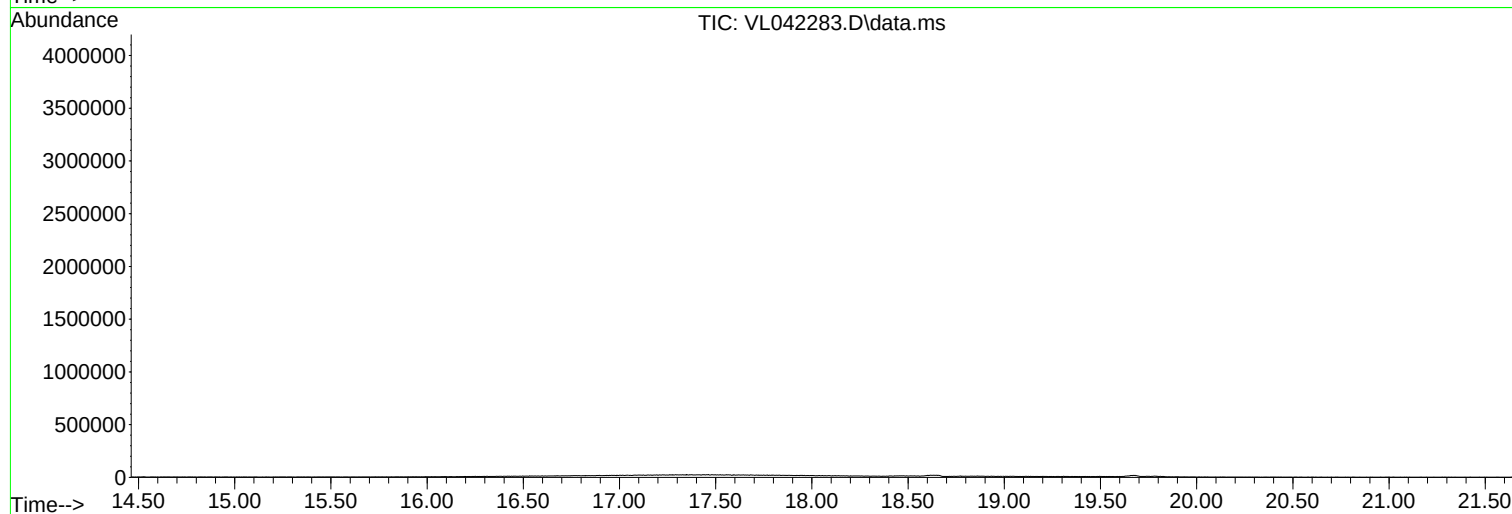
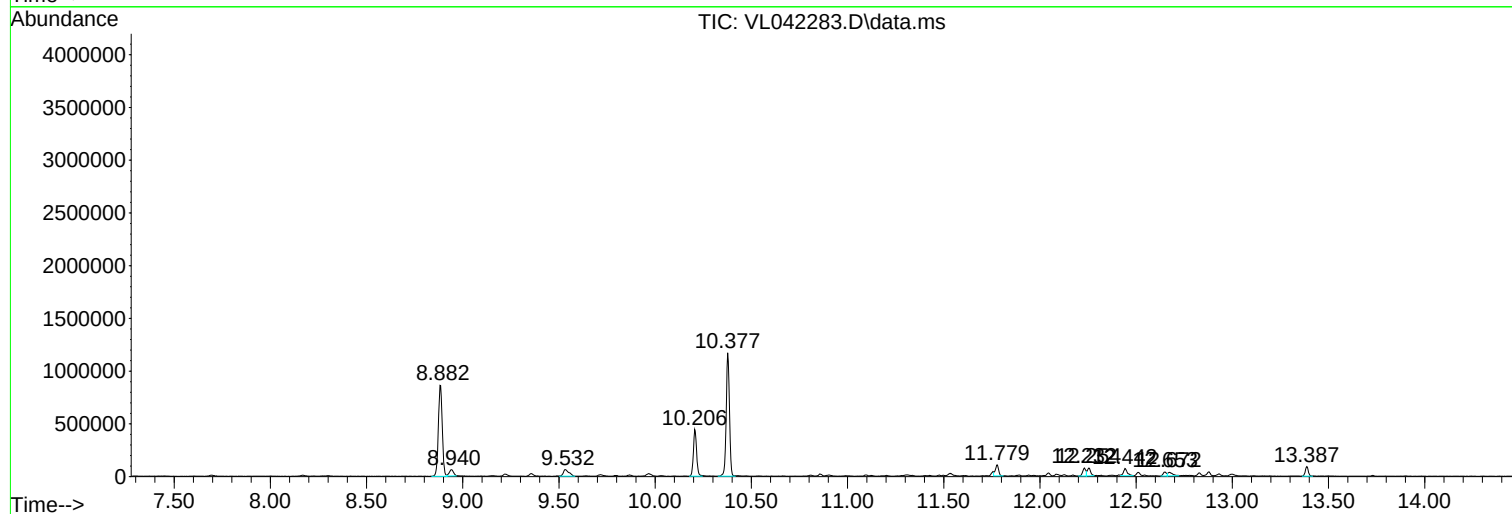
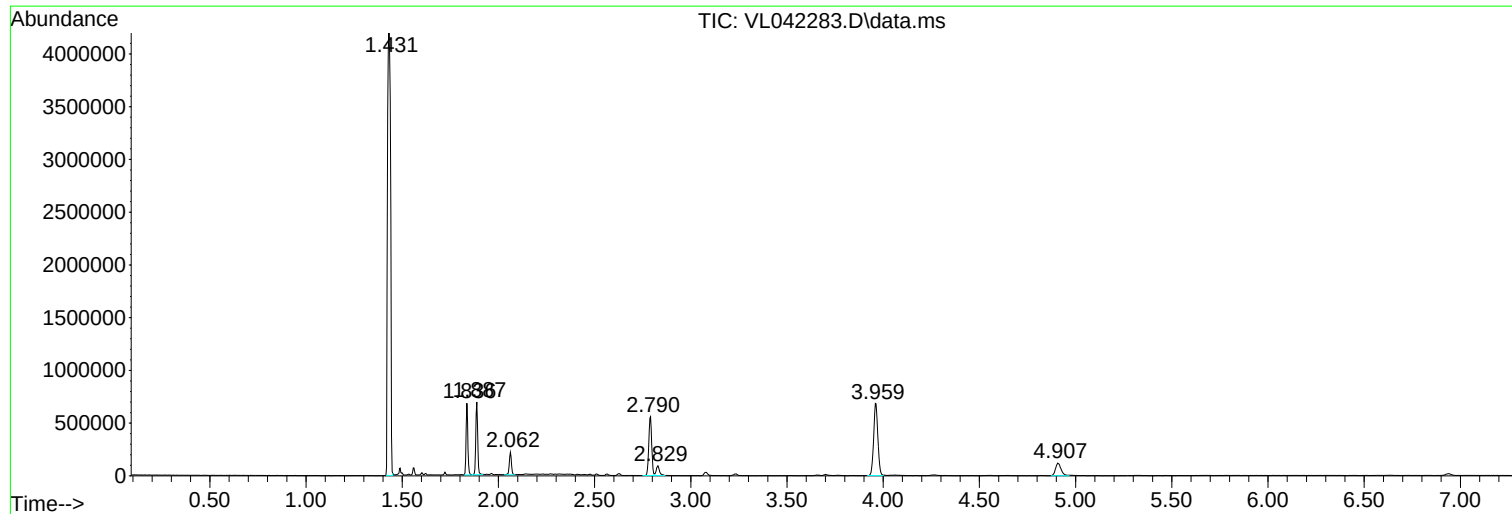
Sum of corrected areas: 11619646

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042283.D
Acq On : 09 Apr 2025 02:51
Operator : SY/MD
Sample : Q1728-10 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04012025

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042283.D
Acq On : 09 Apr 2025 02:51
Operator : SY/MD
Sample : Q1728-10 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04012025

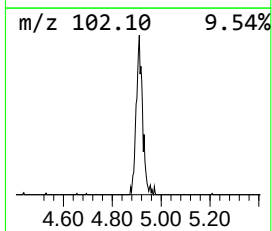
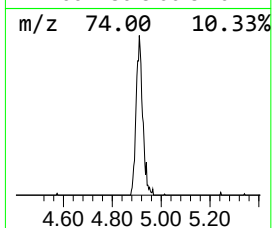
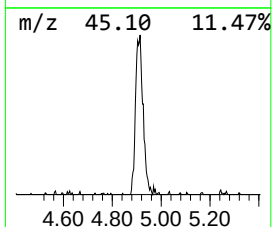
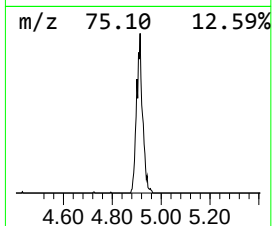
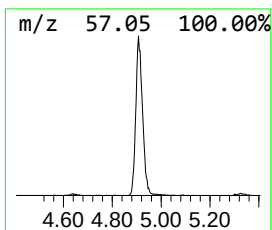
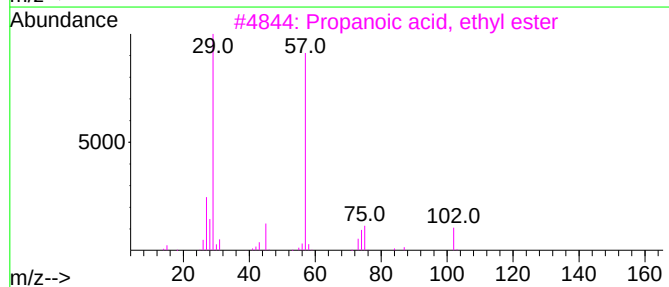
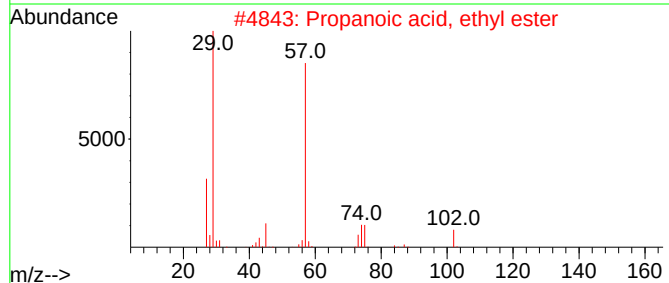
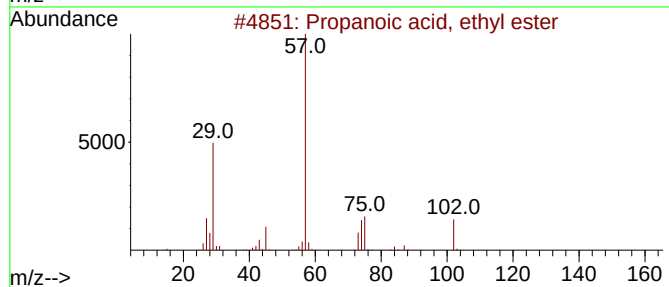
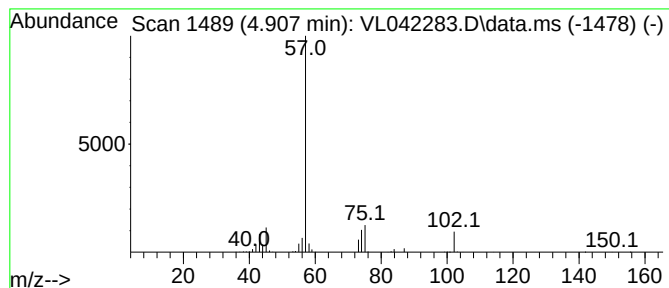
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 1 Propanoic acid, ethyl ester Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.907	2.27 ppbv	236276	1,4-Difluorobenzene	3.962

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Propanoic acid, ethyl ester	102	C5H10O2	000105-37-3	90
2			Propanoic acid, ethyl ester	102	C5H10O2	000105-37-3	87
3			Propanoic acid, ethyl ester	102	C5H10O2	000105-37-3	86
4			Propanoic acid, ethyl ester	102	C5H10O2	000105-37-3	64
5			Propanoic acid, ethyl ester	102	C5H10O2	000105-37-3	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042283.D
Acq On : 09 Apr 2025 02:51
Operator : SY/MD
Sample : Q1728-10 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04012025

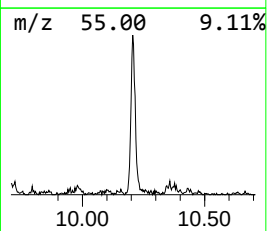
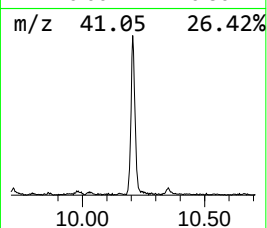
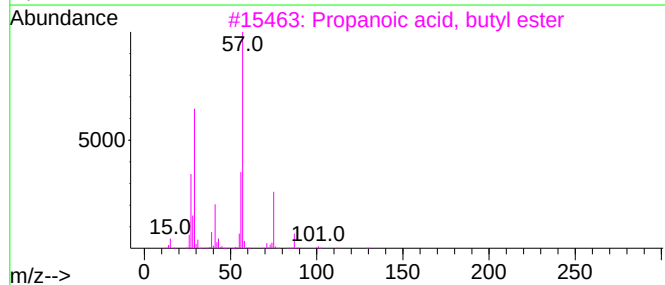
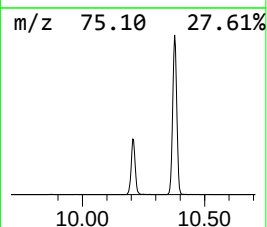
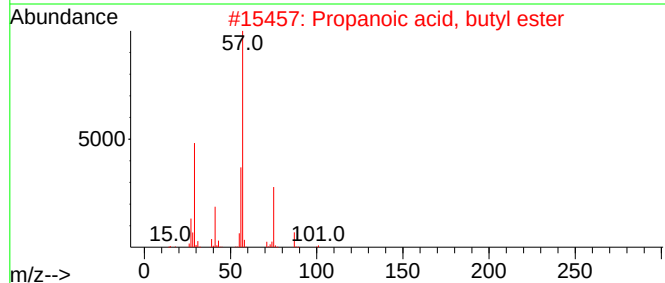
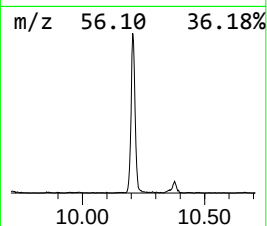
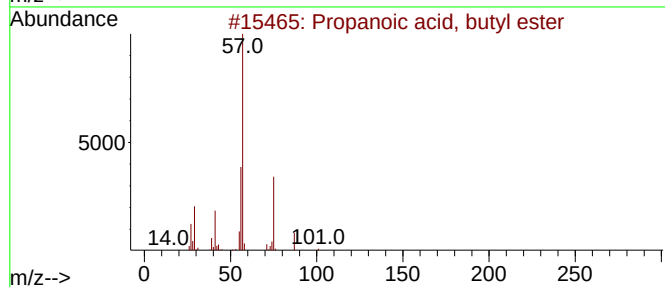
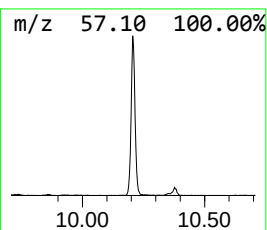
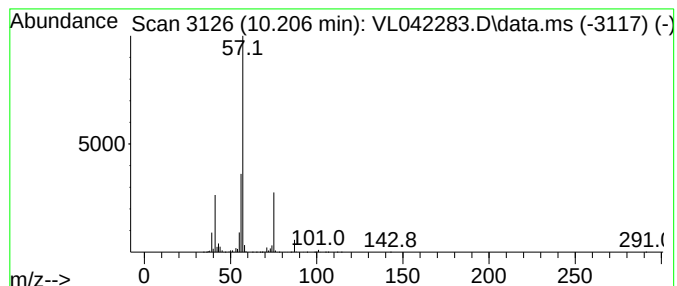
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 2 Propanoic acid, butyl ester Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.206	4.17 ppbv	505992	Chlorobenzene-d5	8.882

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Propanoic acid, butyl ester	130	C7H14O2	000590-01-2	83
2			Propanoic acid, butyl ester	130	C7H14O2	000590-01-2	78
3			Propanoic acid, butyl ester	130	C7H14O2	000590-01-2	64
4			Propanoic acid, butyl ester	130	C7H14O2	000590-01-2	56
5			Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	38



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042283.D
Acq On : 09 Apr 2025 02:51
Operator : SY/MD
Sample : Q1728-10 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04012025

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Propanoic acid,...	4.907	2.3	ppbv	236276	2	3.962	1041410	10.0
Propanoic acid,...	10.206	4.2	ppbv	505992	3	8.882	1212190	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-B1-4-04012025	SDG No.:	Q1728
Lab Sample ID:	Q1728-11	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
VL042274.D	2		04/08/25 22:11	VL040825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.43	2.13	J	2.08	4.94	ug/m3
74-87-3	Chloromethane	0.20	0.41	U	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	11.7	27.8		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	0.67	2.33	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	0.41	1.21	J	0.71	2.95	ug/m3
56-23-5	Carbon Tetrachloride	0.15	0.94		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	0.56	2.73	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	0.29	0.93	J	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	0.20	1.07		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	0.21	0.86	J	0.78	4.10	ug/m3
108-88-3	Toluene	1.50	5.65		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-B1-4-04012025	SDG No.:	Q1728
Lab Sample ID:	Q1728-11	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
VL042274.D	2		04/08/25 22:11	VL040825

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	0.29	1.97		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	0.31	1.35	J	1.04	4.34	ug/m3
179601-23-1	m/p-Xylene	1.30	5.65	J	1.82	8.69	ug/m3
95-47-6	o-Xylene	0.52	2.26	J	1.04	4.34	ug/m3
100-42-5	Styrene	0.56	2.38	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	0.31	1.52	J	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	0.42	1.48	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	9.50		70 (65) - 130 (135)	95%	SPK: 10

INTERNAL STANDARDS

74-97-5	Bromochloromethane	156000	2.79
540-36-3	1,4-Difluorobenzene	399000	3.965
3114-55-4	Chlorobenzene-d5	360000	8.885

TENTATIVE IDENTIFIED COMPOUNDS

75-45-6	Chlorodifluoromethane	0.30	J	1.48	ppbv
115-07-1	Propene	0.33	J	1.49	ppbv
64-17-5	Ethanol	22.3	J	1.72	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-B1-4-04012025	SDG No.:	Q1728
Lab Sample ID:	Q1728-11	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
VL042274.D	2		04/08/25 22:11	VL040825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
67-63-0	Isopropyl Alcohol	2.80		J		1.89	ppbv
001120-21-4	Undecane	3.20		J		12.2	ppbv
	unknown12.257	3.30		J		12.3	ppbv
007289-40-9	Ether, heptyl hexyl	2.70		J		12.4	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\VL040825\
 Data File : VL042274.D
 Acq On : 08 Apr 2025 22:11
 Operator : SY/MD
 Sample : Q1728-11 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-4-04012025

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
 Supervised By :Semsettin Yesilyurt 04/10/2025

Quant Time: Apr 09 02:00:57 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)

Internal Standards						
1) Bromochloromethane	2.790	49	156372	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	398763	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.885	117	359554	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	281110	9.520	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.200%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.499	85	5004	0.217	ppbv	89
3) Chlorodifluoromethane	1.479	51	3527m	0.150	ppbv	
9) Propene	1.489	41	1785	0.165	ppbv	94
11) Trichlorofluoromethane	1.878	101	2380m	0.106	ppbv	
13) Ethanol	1.722	45	11416	11.170	ppbv	83
15) Acetone	1.839	43	128185	5.861	ppbv	95
17) tert-Butyl alcohol	2.046	59	3888	0.143	ppbv	99
19) Isopropyl Alcohol	1.890	45	17157	1.390	ppbv #	1
20) Methylene Chloride	2.065	84	2710	0.333	ppbv #	93
26) Hexane	2.829	57	4605	0.210	ppbv #	40
29) Chloroform	2.852	83	9004	0.281	ppbv	97
34) 2-Butanone	2.570	43	5858	0.203	ppbv	98
35) Carbon Tetrachloride	3.761	117	2346m	0.075	ppbv	
36) Benzene	3.658	78	5637	0.143	ppbv #	90
38) Trichloroethene	4.557	130	1670m	0.101	ppbv	
50) 4-Methyl-2-Pentanone	5.781	43	4724m	0.103	ppbv	
52) Tetrachloroethene	8.225	164	2269m	0.145	ppbv	
53) Toluene	6.940	91	34973	0.746	ppbv	99
58) Ethyl Benzene	9.364	91	10002	0.157	ppbv	97
59) m/p-Xylene	9.535	91	32175	0.631	ppbv	100
60) o-Xylene	9.969	91	13256	0.259	ppbv	98
61) Styrene	9.872	104	7023m	0.278	ppbv	
74) 1,2,4-Trimethylbenzene	11.542	105	9995	0.156	ppbv #	61

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

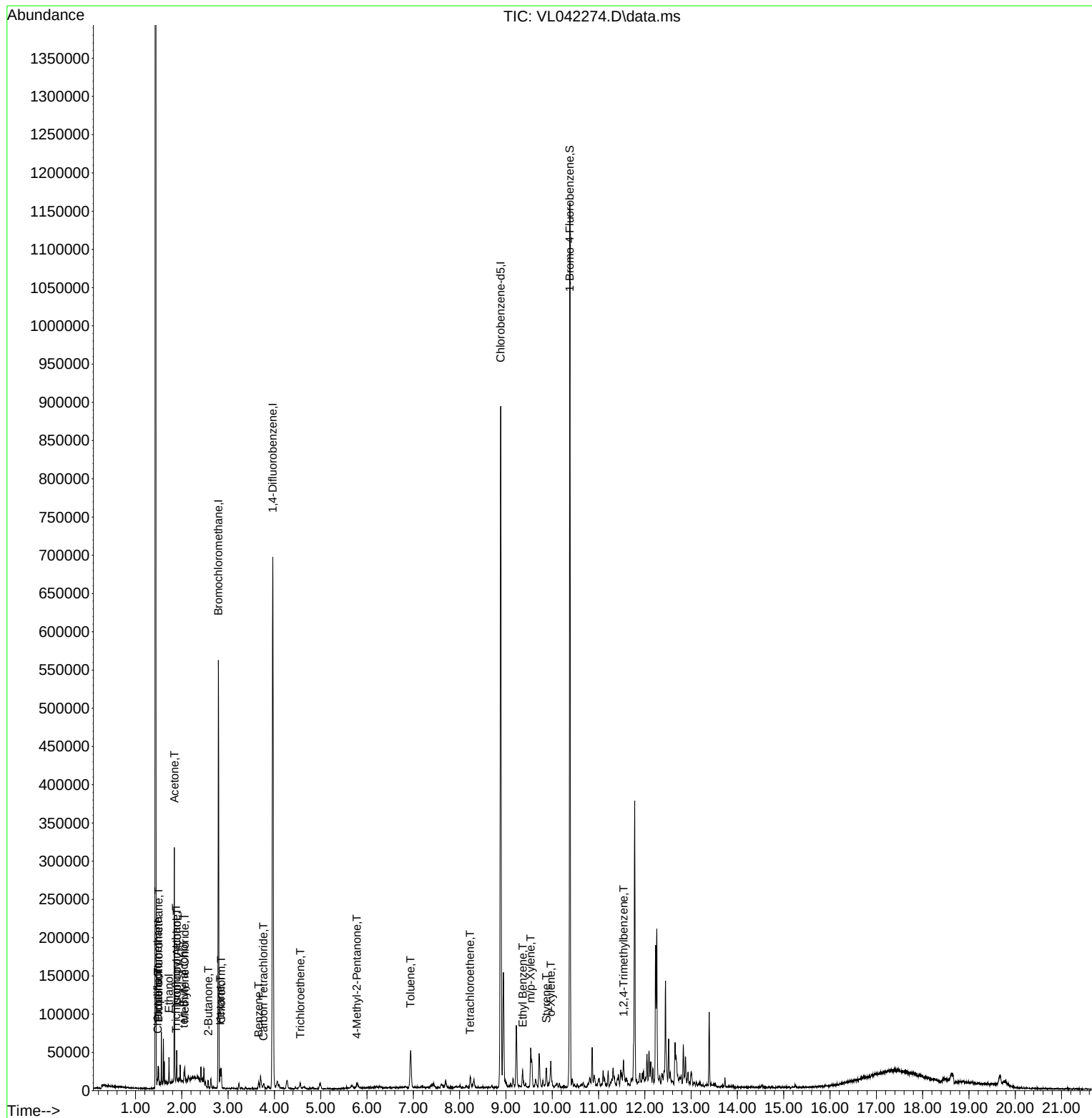
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Data File : VL042274.D
Acq On : 08 Apr 2025 22:11
Operator : SY/MD
Sample : Q1728-11 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

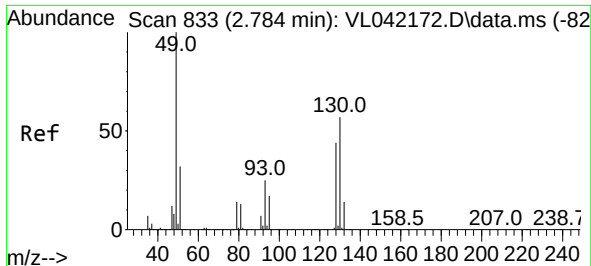
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025

Quant Time: Apr 09 02:00:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

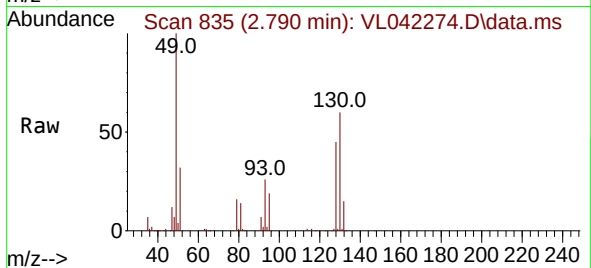
Reviewed By : Mahesh Dadoda 04/09/2025
Supervised By : Semsettin Yesilyurt 04/10/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

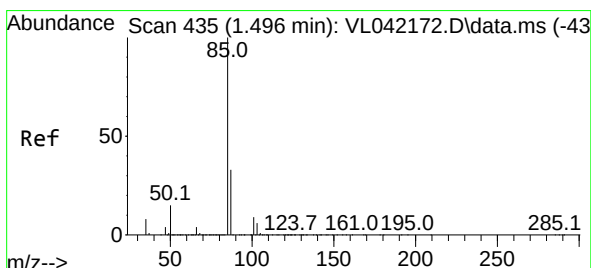
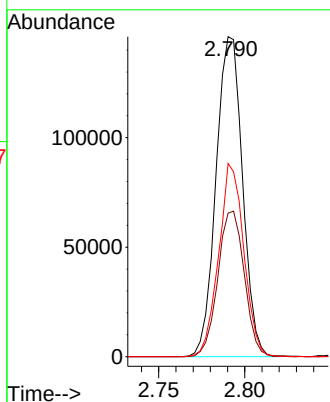
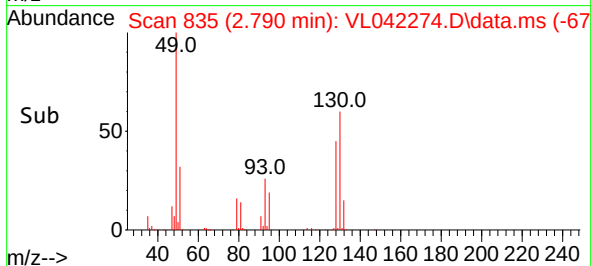
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025



Tgt Ion: 49 Resp: 156372
Ion Ratio Lower Upper
49 100
128 45.5 22.9 68.5
130 57.4 28.8 86.4

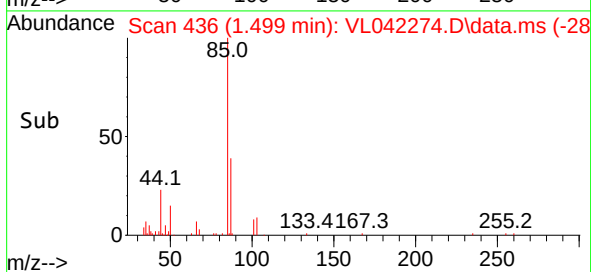
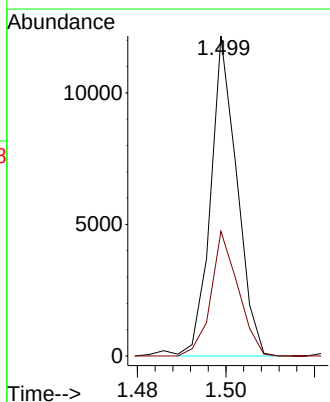
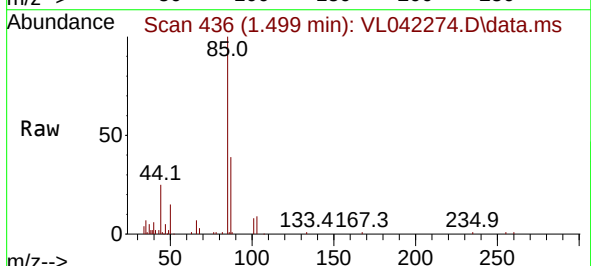
Manual Integrations
APPROVED

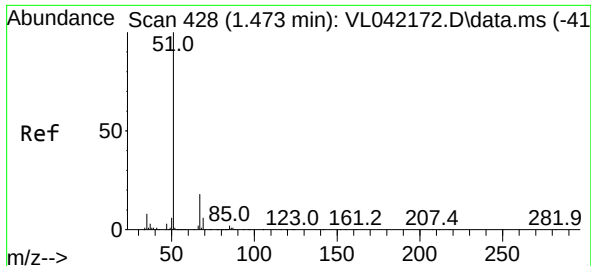
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#2
Dichlorodifluoromethane
Concen: 0.217 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

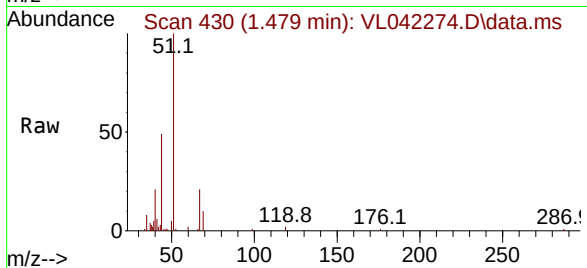
Tgt Ion: 85 Resp: 5004
Ion Ratio Lower Upper
85 100
87 38.9 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.150 ppbv m
RT: 1.479 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

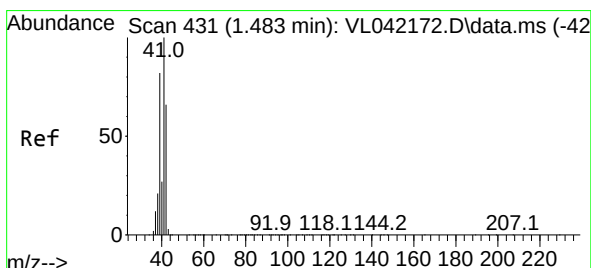
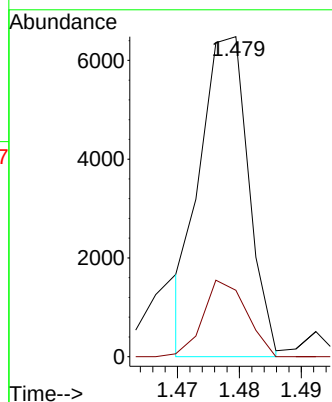
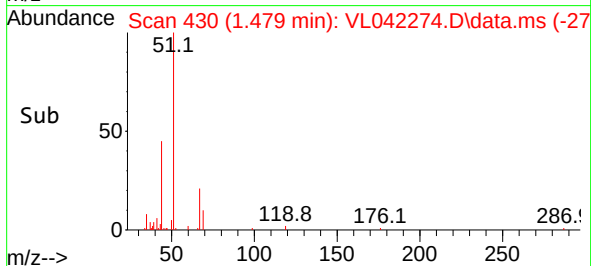
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025



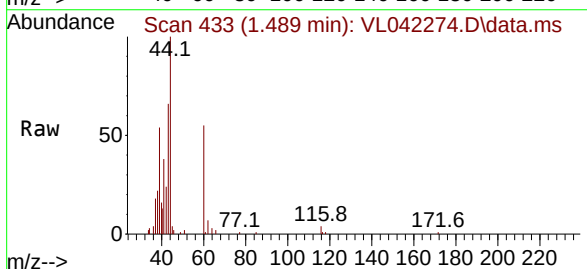
Tgt Ion: 51 Resp: 352
Ion Ratio Lower Upper
51 100
67 21.5 15.0 22.6

Manual Integrations
APPROVED

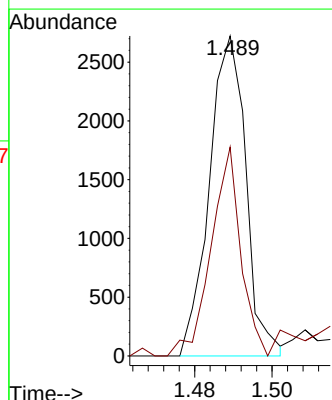
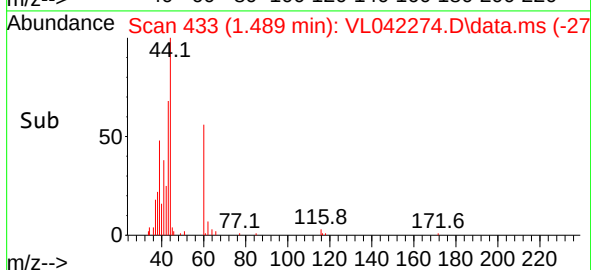
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

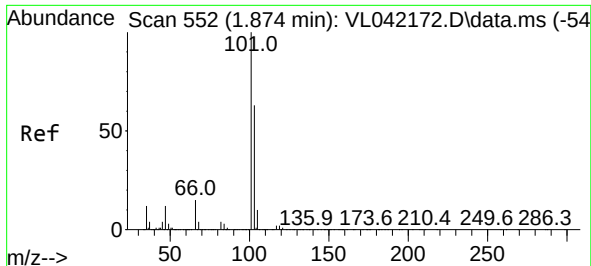


#9
Propene
Concen: 0.165 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11



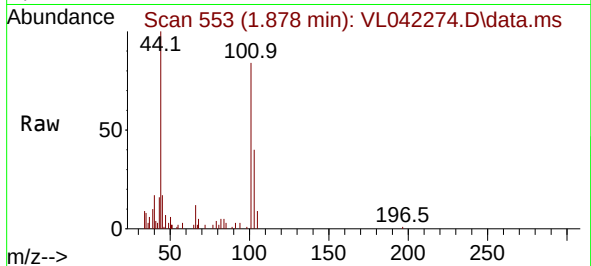
Tgt Ion: 41 Resp: 1785
Ion Ratio Lower Upper
41 100
42 64.8 55.4 83.2





#11
Trichlorofluoromethane
Concen: 0.106 ppbv m
RT: 1.878 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

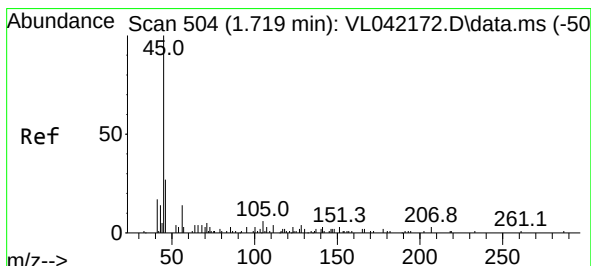
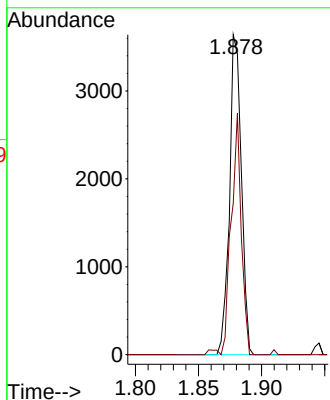
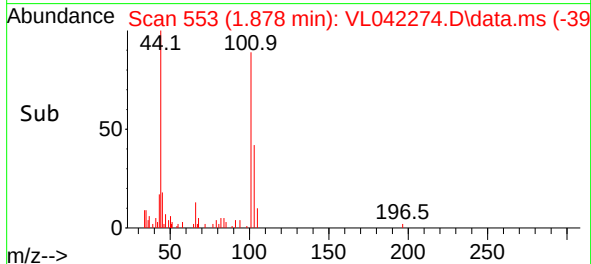
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025



Tgt Ion:101 Resp: 2380
Ion Ratio Lower Upper
101 100
103 47.3 50.2 75.2

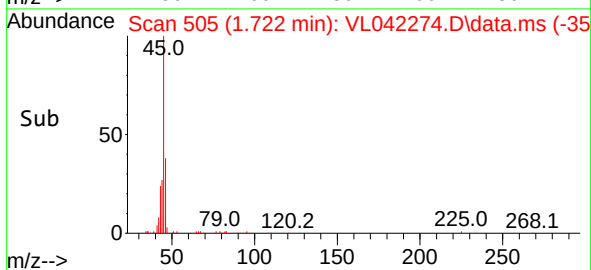
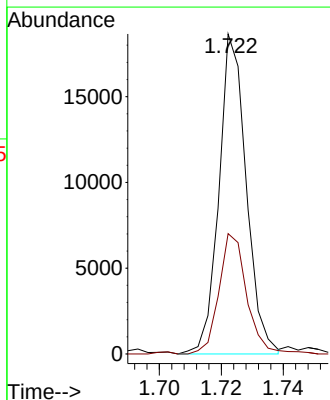
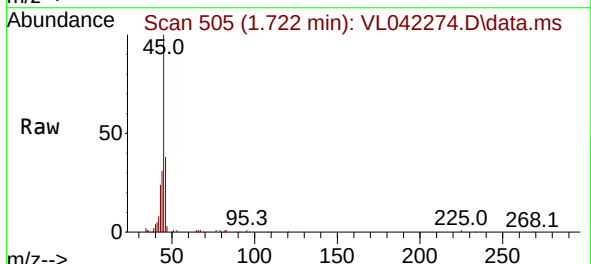
Manual Integrations
APPROVED

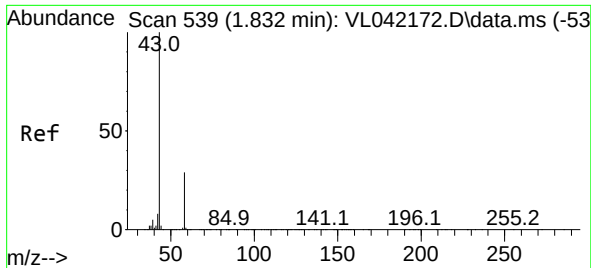
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#13
Ethanol
Concen: 11.170 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

Tgt Ion: 45 Resp: 11416
Ion Ratio Lower Upper
45 100
46 38.8 20.2 80.8





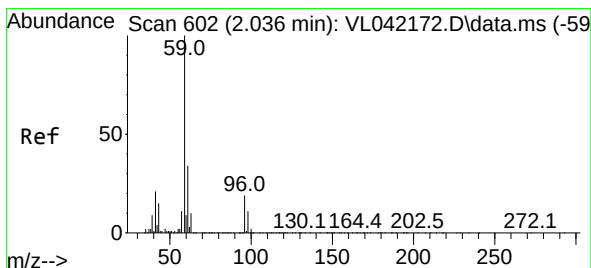
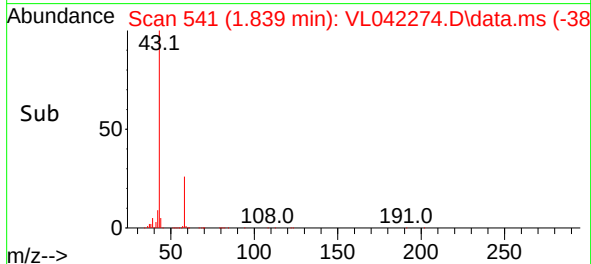
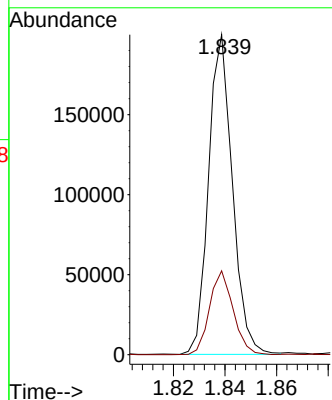
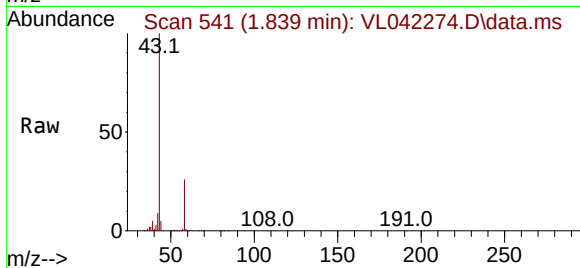
#15
Acetone
Concen: 5.861 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025

Tgt Ion: 43 Resp: 12818
Ion Ratio Lower Upper
43 100
58 26.5 23.2 34.8

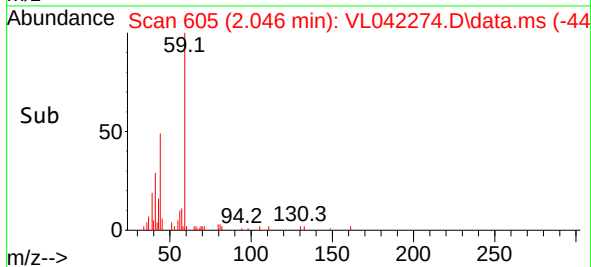
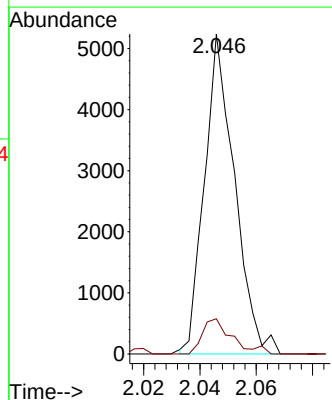
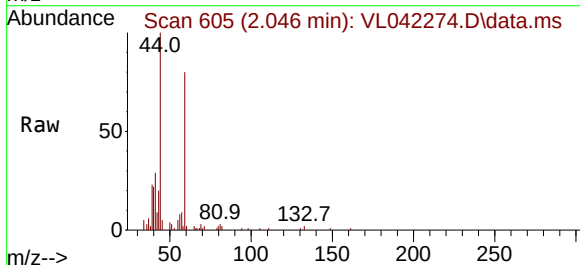
Manual Integrations
APPROVED

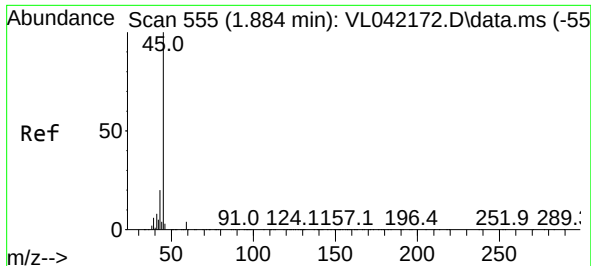
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#17
tert-Butyl alcohol
Concen: 0.143 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.010 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

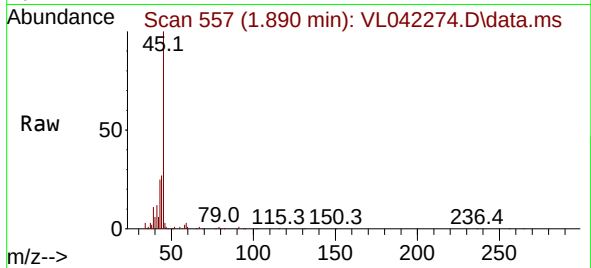
Tgt Ion: 59 Resp: 3888
Ion Ratio Lower Upper
59 100
57 10.8 8.9 13.3





#19
Isopropyl Alcohol
Concen: 1.390 ppbv
RT: 1.890 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

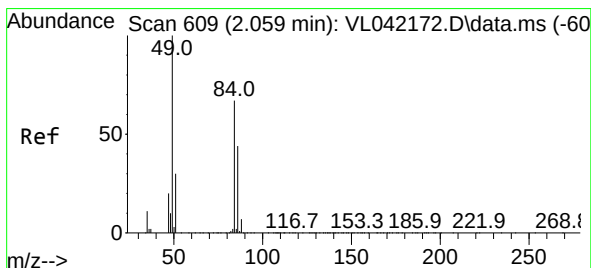
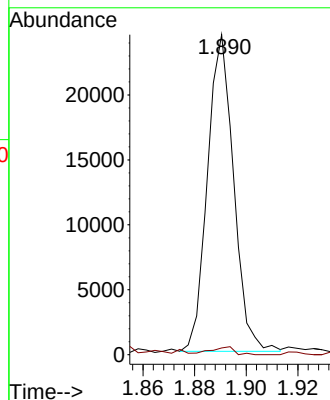
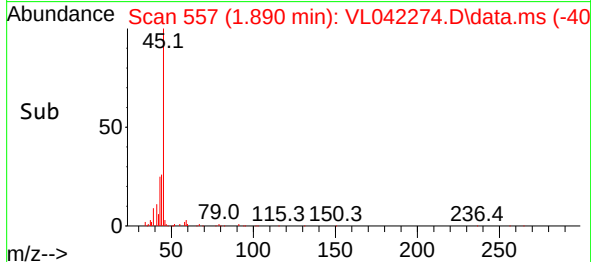
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025



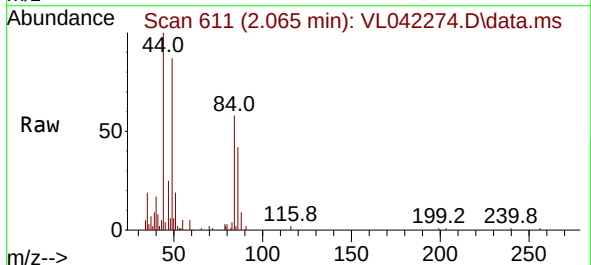
Tgt Ion: 45 Resp: 1715
Ion Ratio Lower Upper
45 100
58 198.0 36.9 55.3

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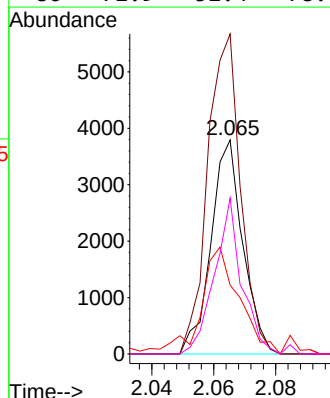
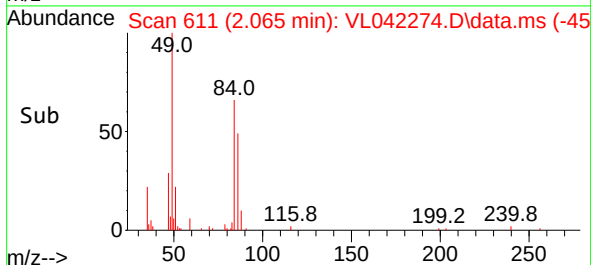
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

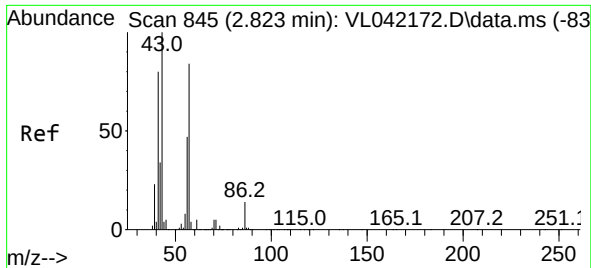


#20
Methylene Chloride
Concen: 0.333 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11



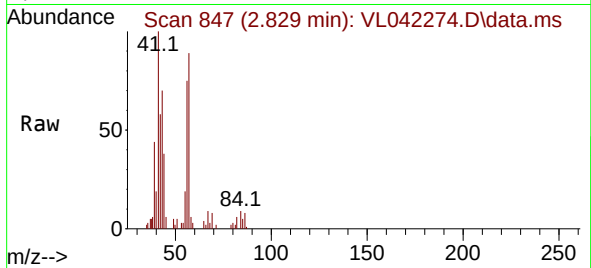
Tgt Ion: 84 Resp: 2710
Ion Ratio Lower Upper
84 100
49 149.6 120.2 180.4
51 32.2 37.4 56.0#
86 72.9 52.4 78.6





#26
Hexane
Concen: 0.210 ppbv
RT: 2.829 min Scan# 845
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

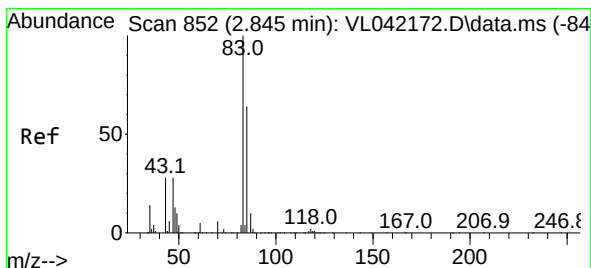
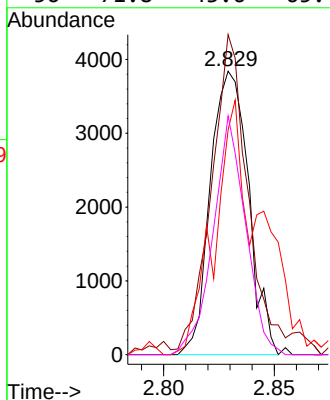
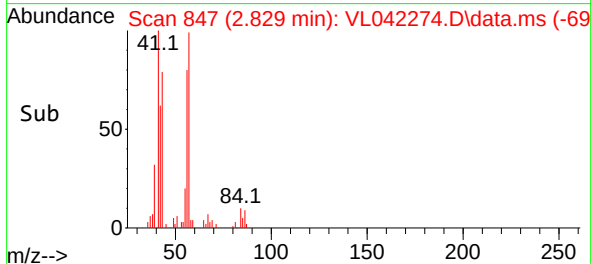
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025



Tgt Ion: 57 Resp: 460
Ion Ratio Lower Upper
57 100
41 114.7 76.6 114.8
43 112.7 207.8 311.8
56 71.8 43.6 65.4#

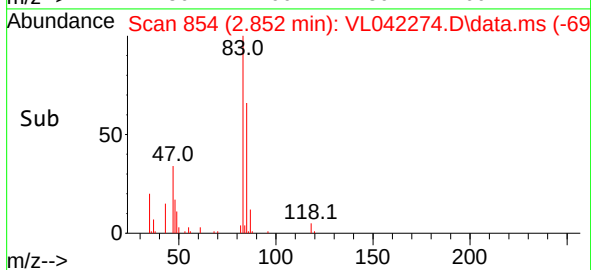
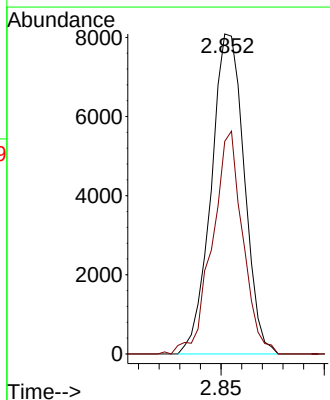
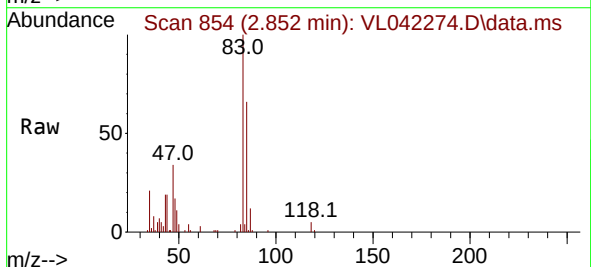
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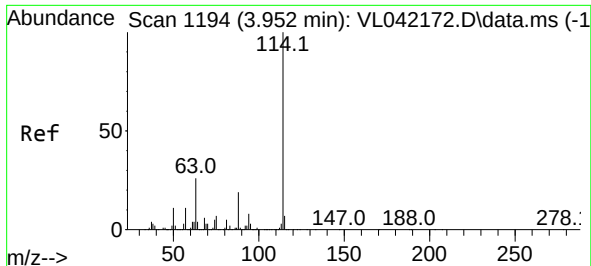
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#29
Chloroform
Concen: 0.281 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

Tgt Ion: 83 Resp: 9004
Ion Ratio Lower Upper
83 100
85 66.5 51.4 77.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1194

Delta R.T. 0.013 min

Lab File: VL042274.D

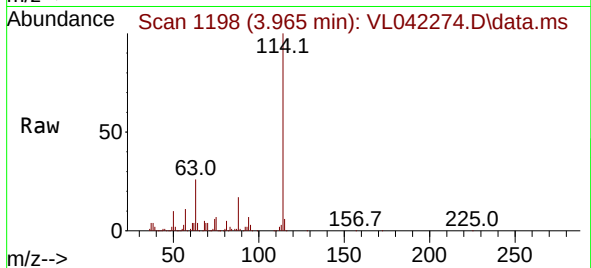
Acq: 08 Apr 2025 22:11

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B1-4-04012025



Tgt Ion:114 Resp: 39876

Ion Ratio Lower Upper

114 100

63 25.7 20.7 31.1

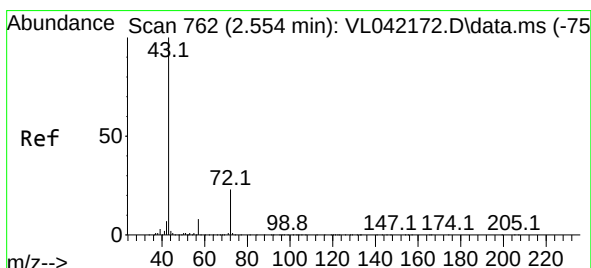
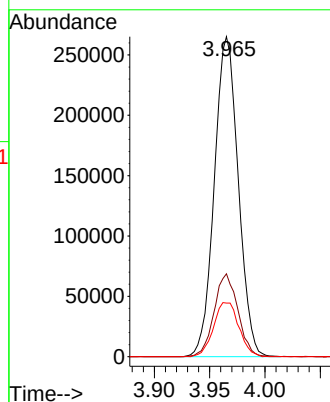
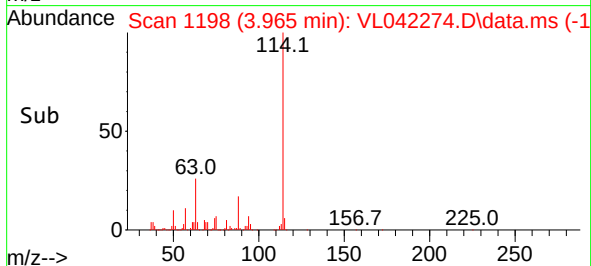
88 18.0 15.0 22.4

Manual Integrations

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Reviewed By :Mahesh Dadoda 04/09/2025

Supervised By :Semsettin Yesilyurt 04/10/2025



#34

2-Butanone

Concen: 0.203 ppbv

RT: 2.570 min Scan# 767

Delta R.T. 0.016 min

Lab File: VL042274.D

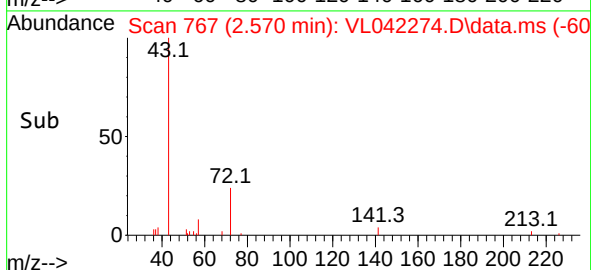
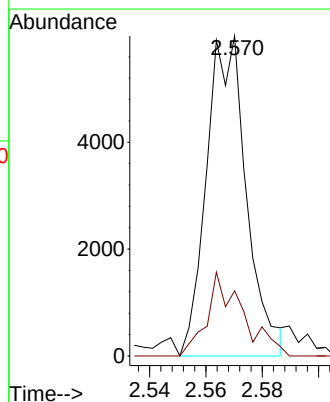
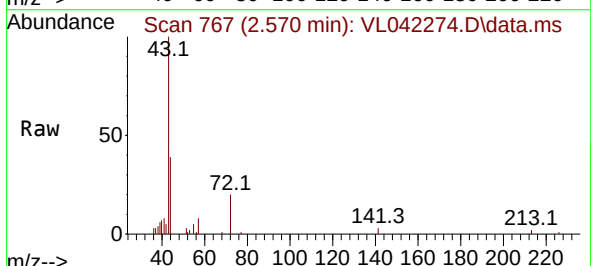
Acq: 08 Apr 2025 22:11

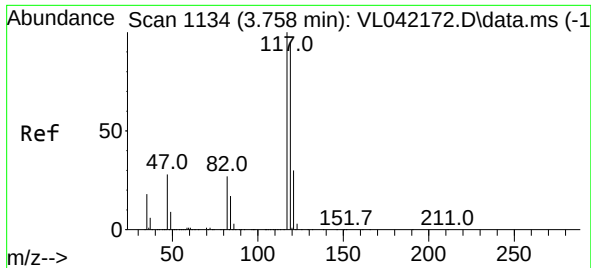
Tgt Ion: 43 Resp: 5858

Ion Ratio Lower Upper

43 100

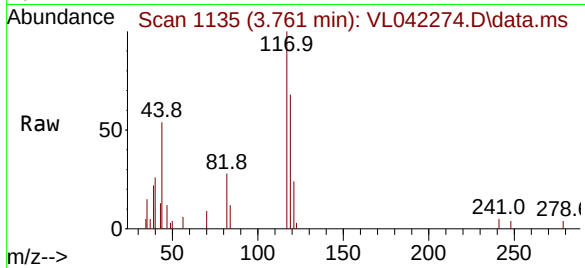
72 23.5 18.2 27.2





#35
Carbon Tetrachloride
Concen: 0.075 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

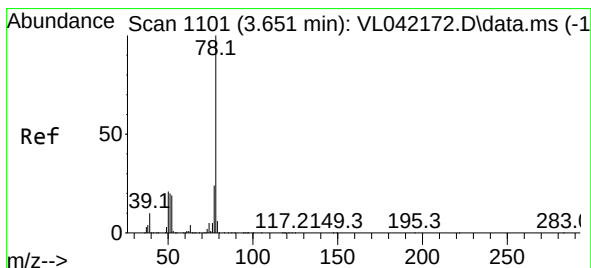
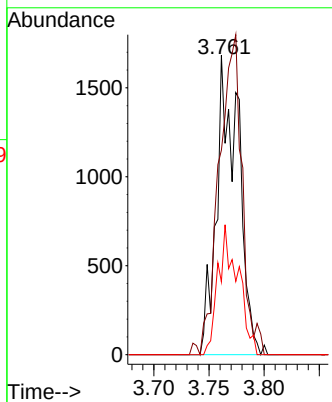
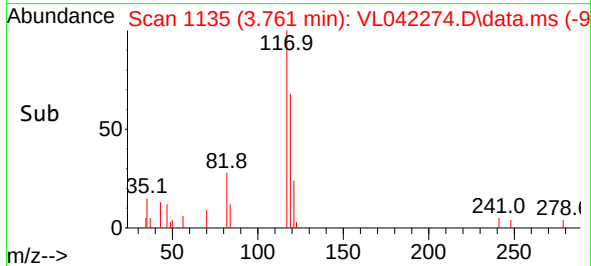
Instrument : MSVOA_L
ClientSampleId : SSSG-B1-4-04012025



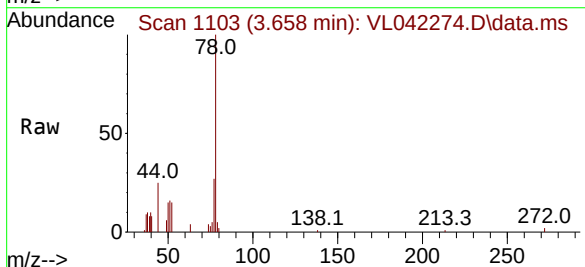
Tgt Ion: 117 Resp: 2340
Ion Ratio Lower Upper
117 100
119 68.3 76.2 114.2
121 24.3 24.2 36.4

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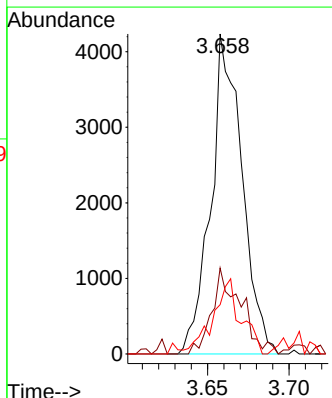
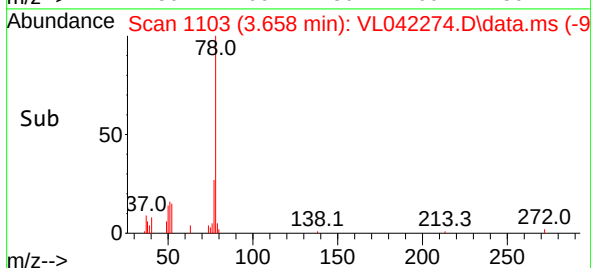
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

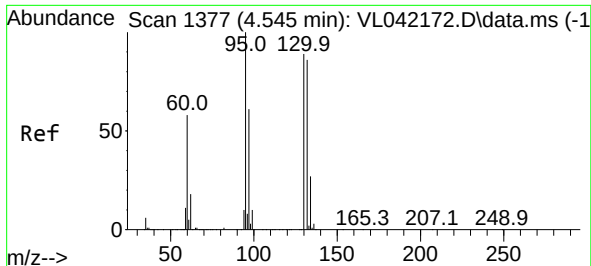


#36
Benzene
Concen: 0.143 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11



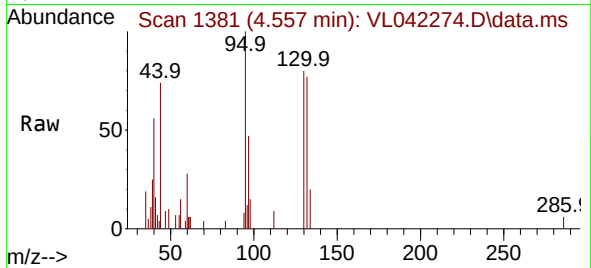
Tgt Ion: 78 Resp: 5637
Ion Ratio Lower Upper
78 100
77 26.8 19.1 28.7
50 14.1 16.6 24.8#





#38
Trichloroethene
Concen: 0.101 ppbv m
RT: 4.557 min Scan# 1377
Delta R.T. 0.013 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

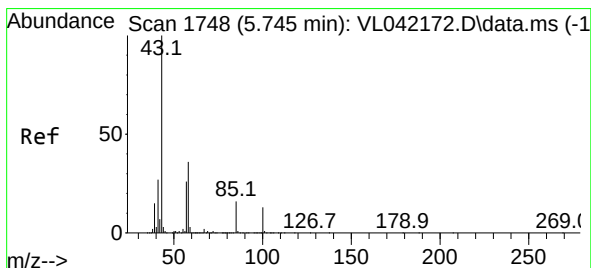
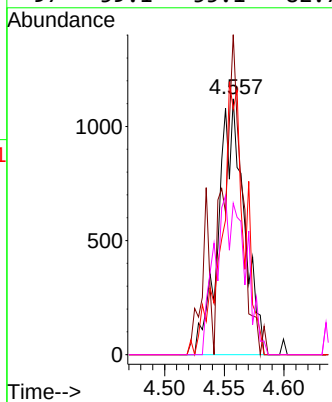
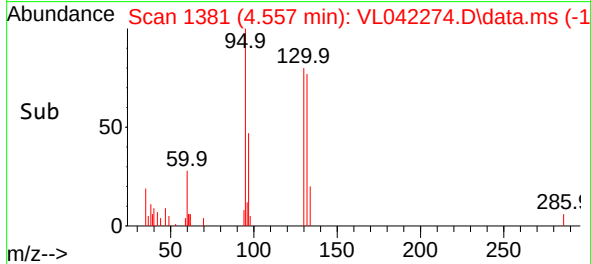
Instrument : MSVOA_L
ClientSampleId : SSSG-B1-4-04012025



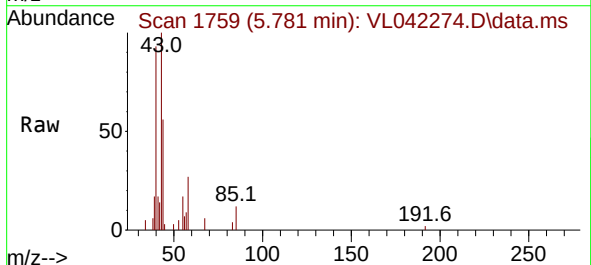
Tgt Ion:130 Resp: 1670
Ion Ratio Lower Upper
130 100
95 125.1 89.8 134.8
132 96.0 77.4 116.2
97 59.1 55.1 82.7

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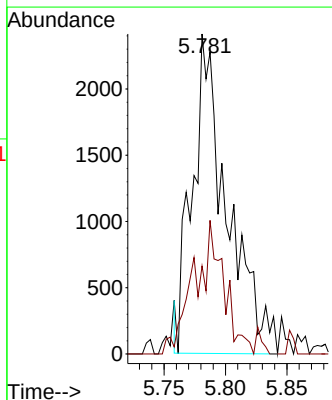
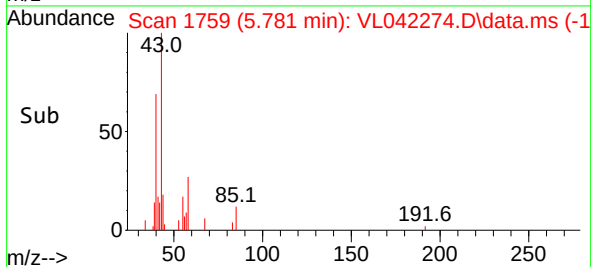
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

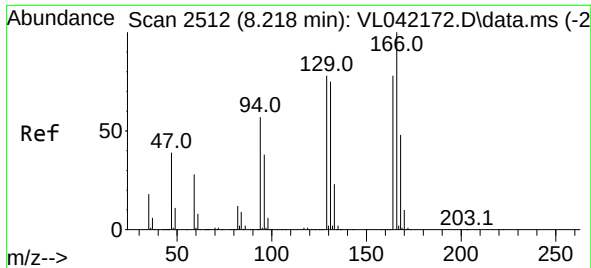


#50
4-Methyl-2-Pentanone
Concen: 0.103 ppbv m
RT: 5.781 min Scan# 1759
Delta R.T. 0.035 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11



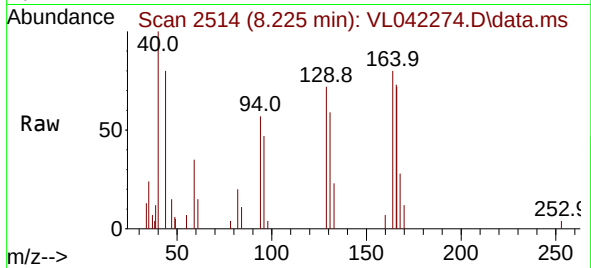
Tgt Ion: 43 Resp: 4724
Ion Ratio Lower Upper
43 100
58 0.0 29.0 43.6#





#52
Tetrachloroethene
Concen: 0.145 ppbv m
RT: 8.225 min Scan# 2117
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

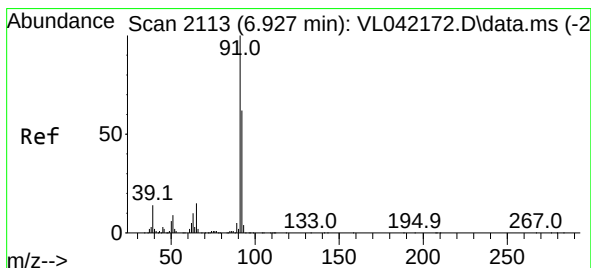
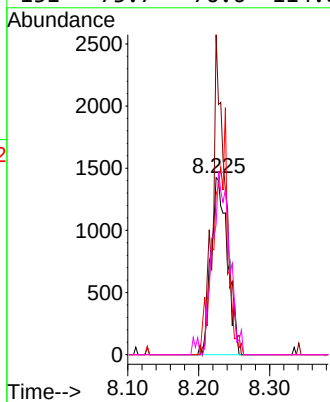
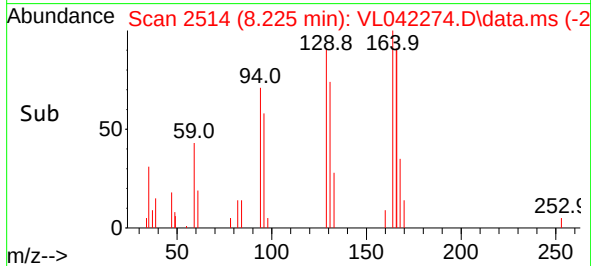
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025



Tgt Ion:164 Resp: 2269
Ion Ratio Lower Upper
164 100
166 90.7 102.5 153.7
129 90.5 79.8 119.8
131 73.7 76.6 114.8#

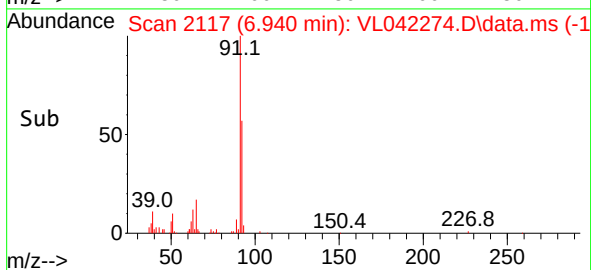
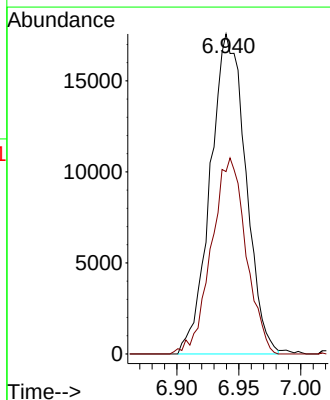
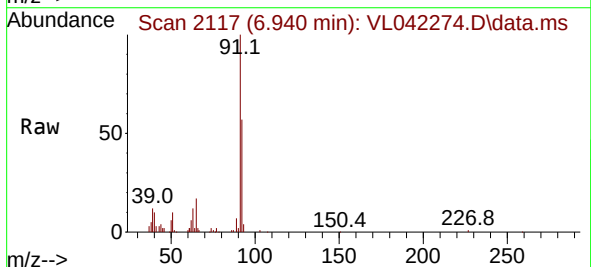
Manual Integrations
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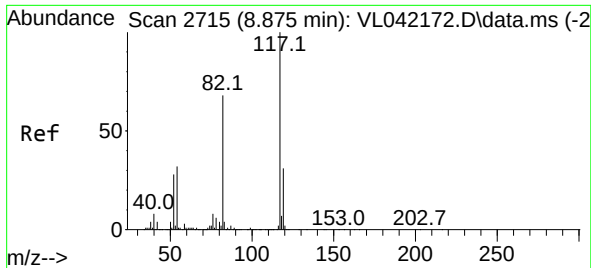
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#53
Toluene
Concen: 0.746 ppbv
RT: 6.940 min Scan# 2117
Delta R.T. 0.013 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

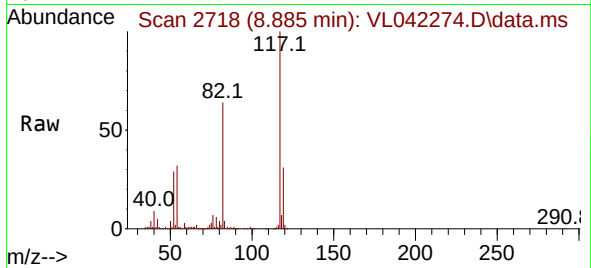
Tgt Ion: 91 Resp: 34973
Ion Ratio Lower Upper
91 100
92 59.7 48.4 72.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

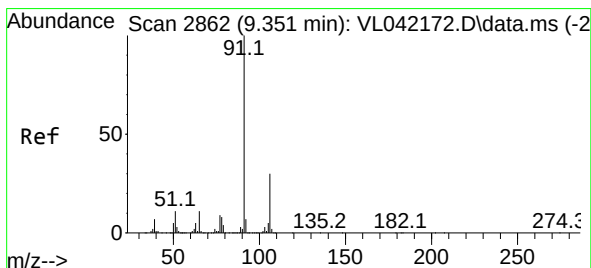
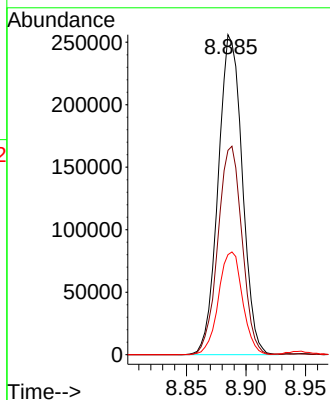
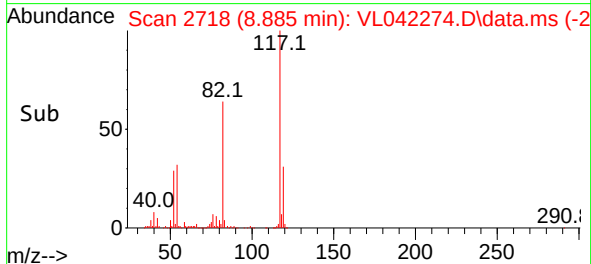
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025



Tgt Ion:117 Resp: 359554
Ion Ratio Lower Upper
117 100
82 65.6 55.8 83.6
119 32.2 25.5 38.3

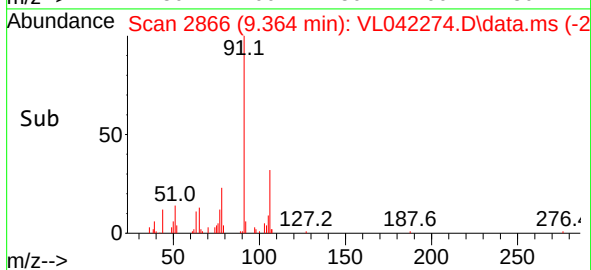
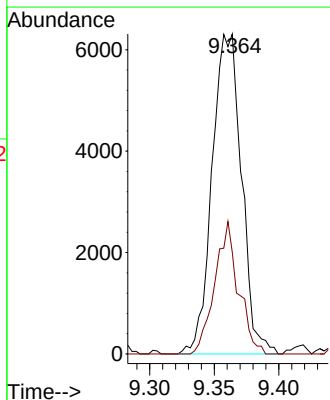
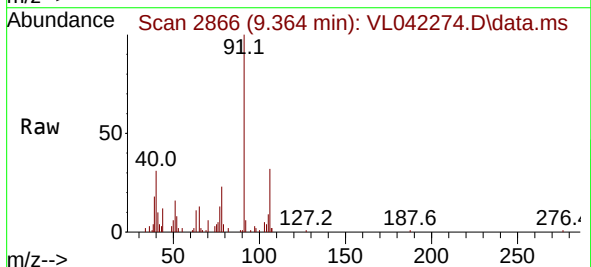
Manual Integrations
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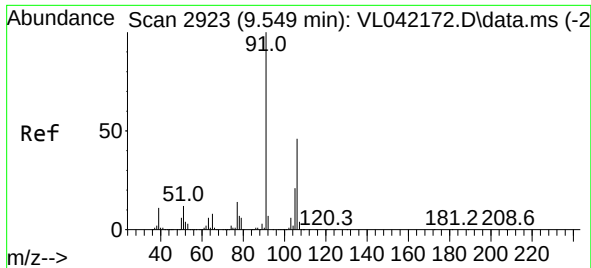
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#58
Ethyl Benzene
Concen: 0.157 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.013 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

Tgt Ion: 91 Resp: 10002
Ion Ratio Lower Upper
91 100
106 31.8 24.2 36.2





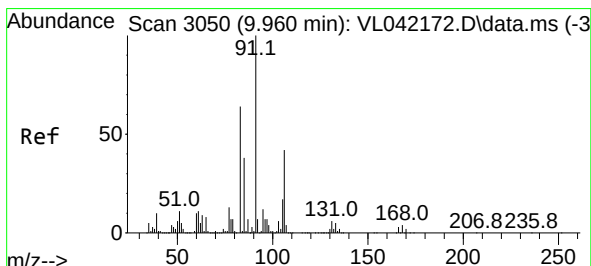
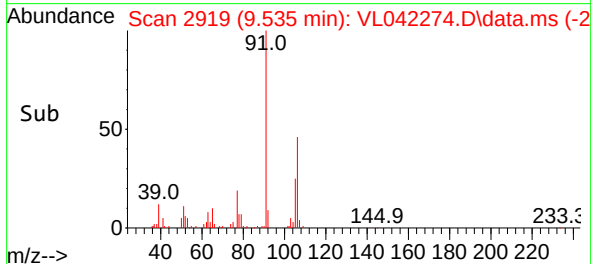
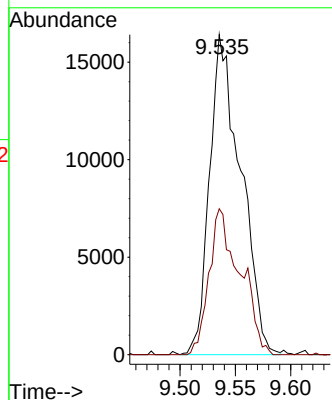
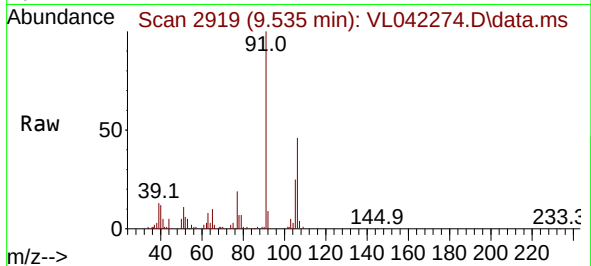
#59
m/p-Xylene
Concen: 0.631 ppbv
RT: 9.535 min Scan# 2919
Delta R.T. -0.013 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

Instrument : MSVOA_L
ClientSampleId : SSSG-B1-4-04012025

Tgt Ion: 91 Resp: 3217
Ion Ratio Lower Upper
91 100
106 45.3 36.4 54.6

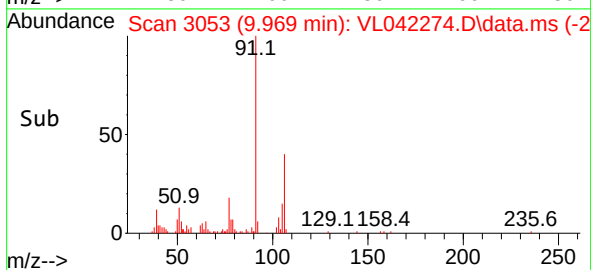
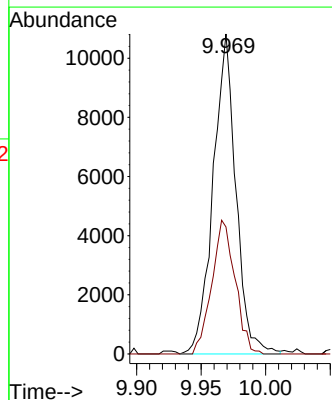
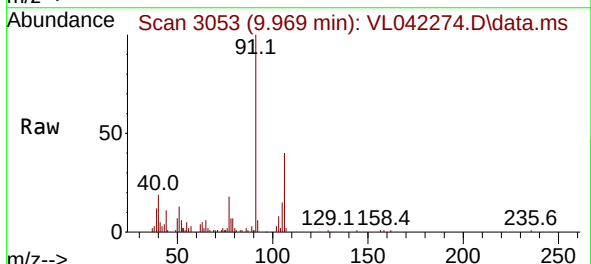
Manual Integrations
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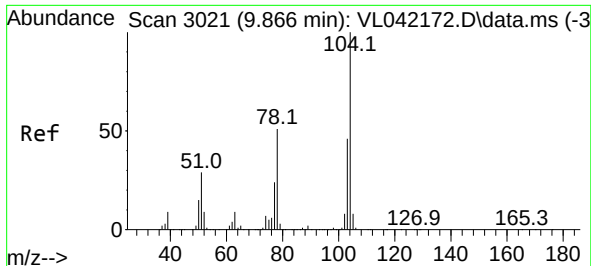
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#60
o-Xylene
Concen: 0.259 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.010 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

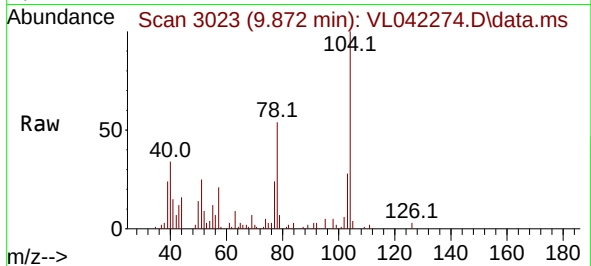
Tgt Ion: 91 Resp: 13256
Ion Ratio Lower Upper
91 100
106 42.7 20.8 62.5





#61
Styrene
Concen: 0.278 ppbv m
RT: 9.872 min Scan# 3021
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

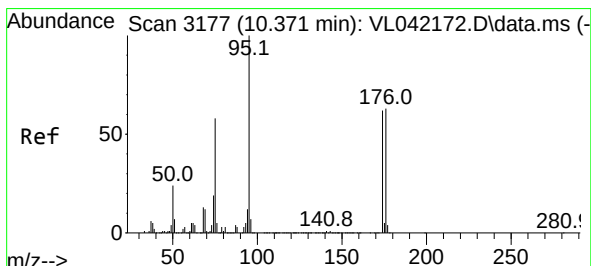
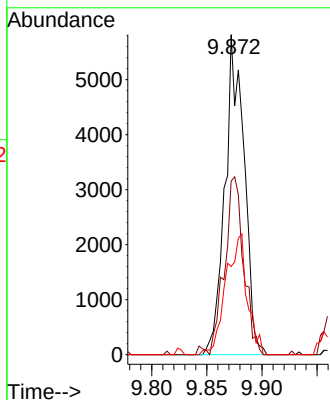
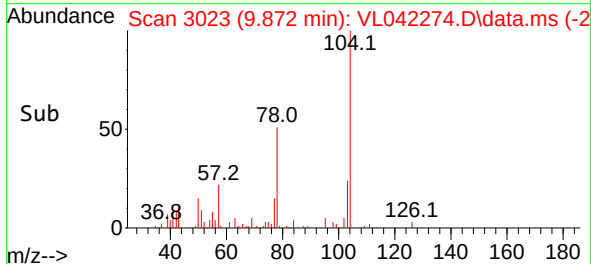
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025



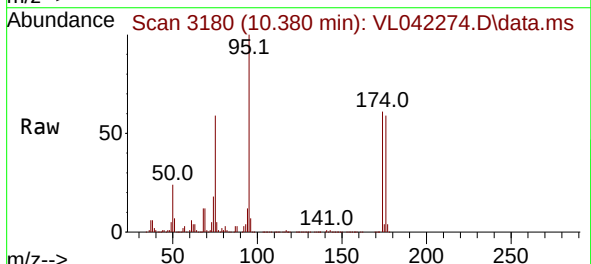
Tgt Ion:104 Resp: 702
Ion Ratio Lower Upper
104 100
78 56.6 41.8 62.6
103 42.0 37.0 55.4

Manual Integrations
APPROVED

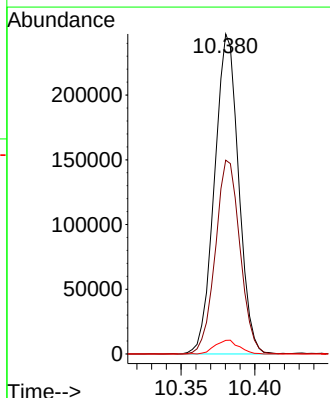
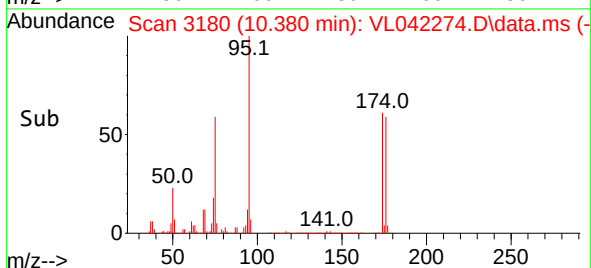
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

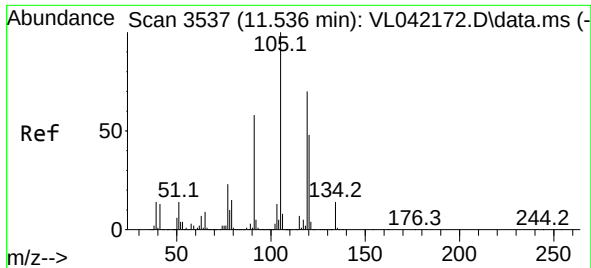


#68
1-Bromo-4-Fluorobenzene
Concen: 9.520 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.010 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11



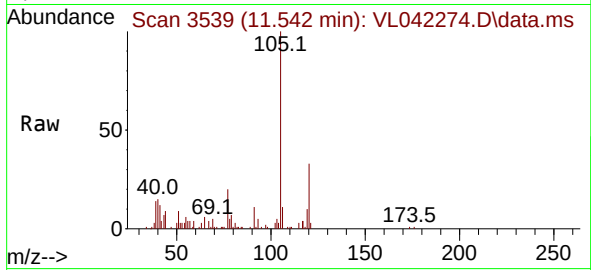
Tgt Ion: 95 Resp: 281110
Ion Ratio Lower Upper
95 100
174 62.0 50.6 76.0
175 4.3 3.8 5.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.156 ppbv
 RT: 11.542 min Scan# 3539
 Delta R.T. 0.006 min
 Lab File: VL042274.D
 Acq: 08 Apr 2025 22:11

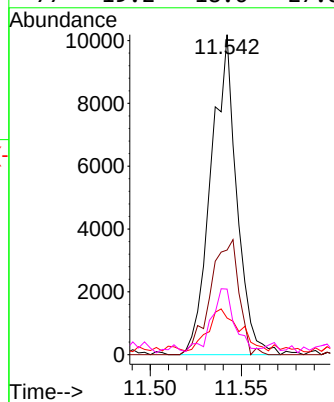
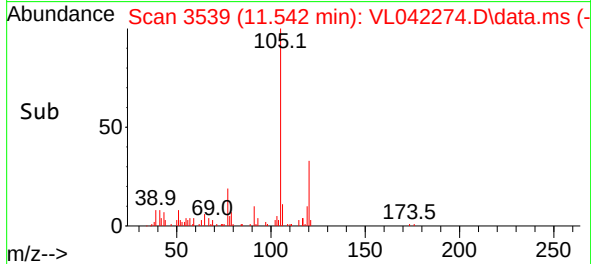
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-4-04012025



Tgt Ion:	105	Resp:	999
Ion	Ratio	Lower	Upper
105	100		
120	32.7	38.6	58.0
91	9.8	46.2	69.2
77	19.2	18.6	27.8

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
 Supervised By :Semsettin Yesilyurt 04/10/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042274.D
 Acq On : 08 Apr 2025 22:11
 Operator : SY/MD
 Sample : Q1728-11 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-4-04012025

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: VL042274.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	410	415	421	rBV	4071361	4351038	100.00%	39.286%
2	1.839	533	541	550	rBV	306794	210120	4.83%	1.897%
3	2.790	826	835	843	rBV	559641	588796	13.53%	5.316%
4	3.965	1183	1198	1215	rBV	695181	1070835	24.61%	9.669%
5	6.943	2104	2118	2133	rBV3	49282	102547	2.36%	0.926%
6	8.888	2703	2719	2728	rBV	890885	1303443	29.96%	11.769%
7	8.946	2728	2737	2747	rVB	143665	226219	5.20%	2.043%
8	9.225	2813	2823	2837	rVB3	79522	114493	2.63%	1.034%
9	9.535	2906	2919	2923	rBV3	51372	69817	1.60%	0.630%
10	9.558	2923	2926	2938	rVB8	36639	46542	1.07%	0.420%
11	9.717	2966	2975	2993	rVB4	44174	72401	1.66%	0.654%
12	9.969	3041	3053	3066	rVB2	32492	56216	1.29%	0.508%
13	10.380	3160	3180	3190	rBV	1157433	1358817	31.23%	12.269%
14	10.862	3321	3329	3337	rBV2	47128	55308	1.27%	0.499%
15	11.539	3531	3538	3551	rVB7	27742	46316	1.06%	0.418%
16	11.782	3600	3613	3622	rVB	367100	455262	10.46%	4.111%
17	12.089	3701	3708	3714	rBV3	38006	45452	1.04%	0.410%
18	12.232	3743	3752	3756	rBV3	179518	206603	4.75%	1.865%
19	12.257	3756	3760	3772	rVB	198485	214082	4.92%	1.933%
20	12.445	3811	3818	3832	rVB2	131366	175979	4.04%	1.589%
21	12.513	3832	3839	3845	rBV2	55398	62294	1.43%	0.562%
22	12.652	3873	3882	3887	rBV4	55028	79678	1.83%	0.719%
23	12.830	3929	3937	3943	rBV4	51318	58960	1.36%	0.532%
24	13.390	4103	4110	4117	rBV	96435	104138	2.39%	0.940%

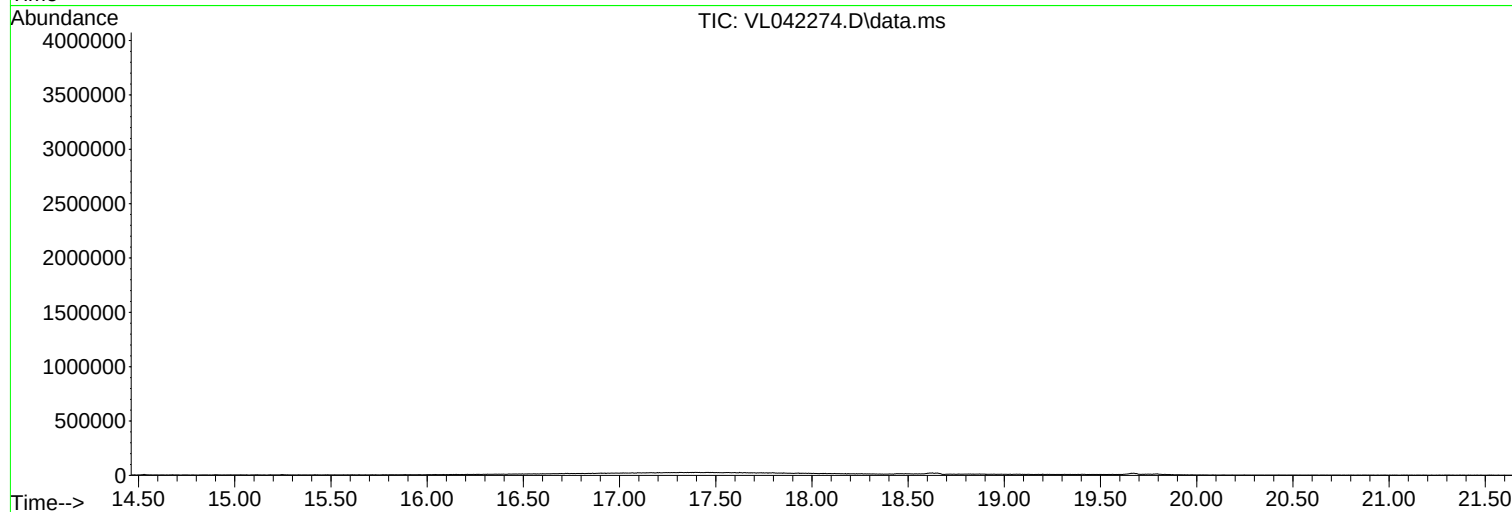
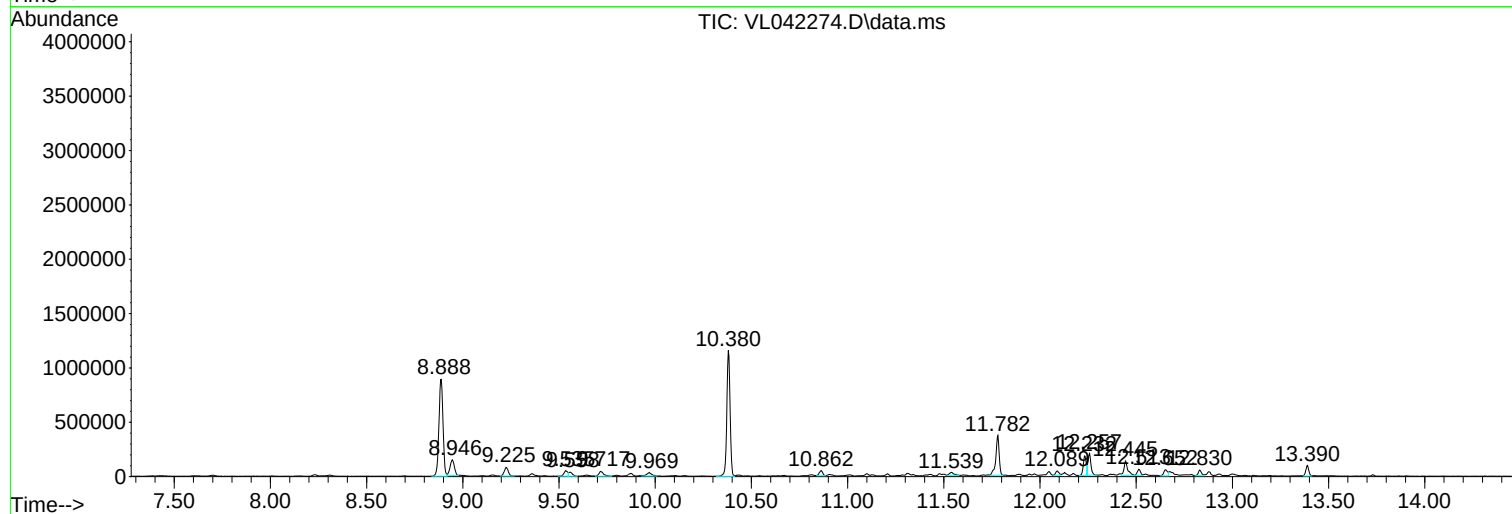
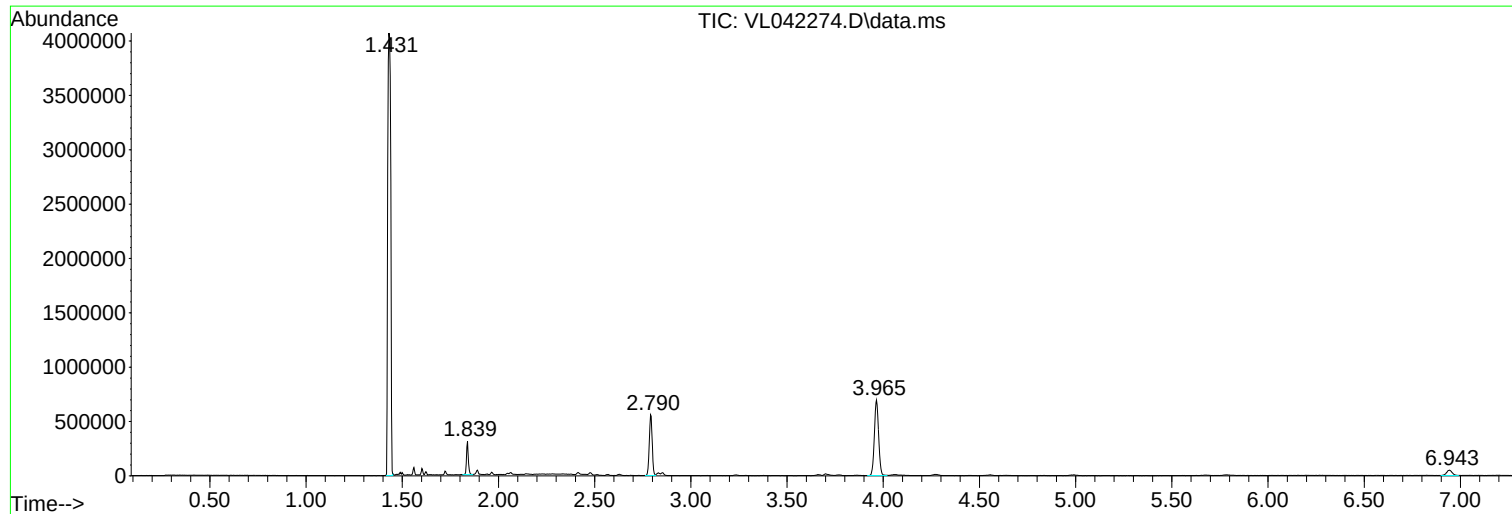
Sum of corrected areas: 11075356

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042274.D
Acq On : 08 Apr 2025 22:11
Operator : SY/MD
Sample : Q1728-11 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025

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\VL040825\
Data File : VL042274.D
Acq On : 08 Apr 2025 22:11
Operator : SY/MD
Sample : Q1728-11 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025

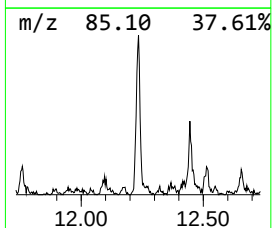
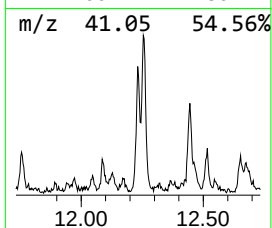
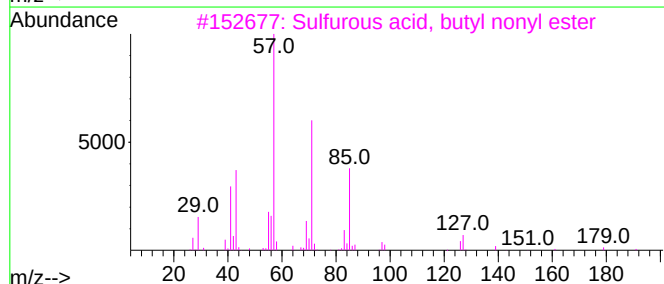
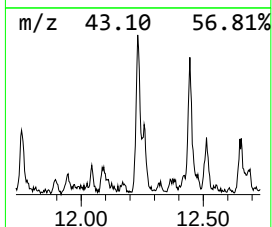
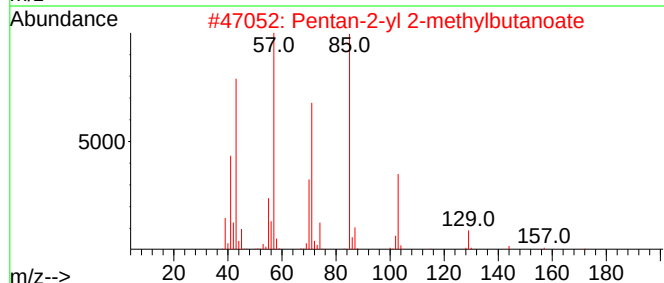
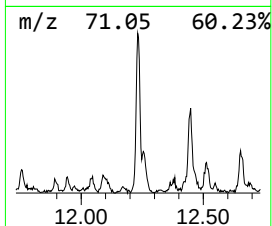
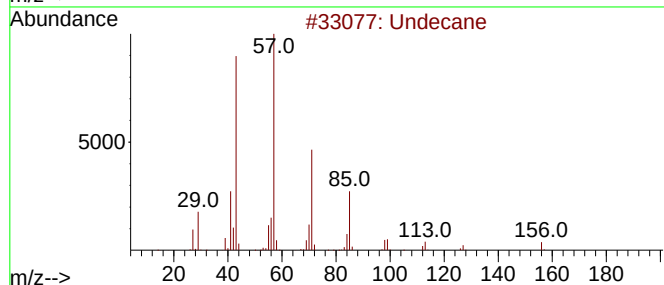
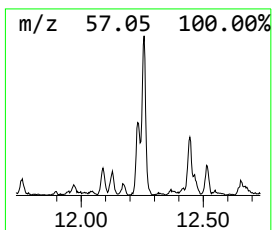
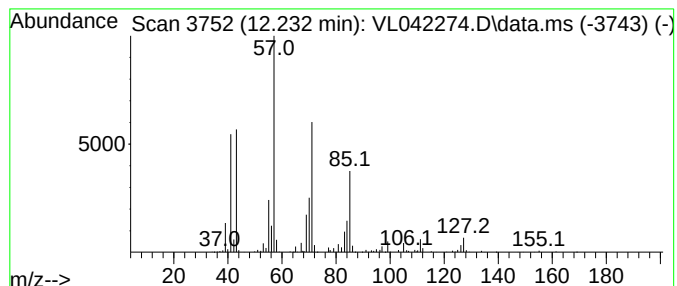
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 3 Undecane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.232	1.59 ppbv	206603	Chlorobenzene-d5	8.885

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Undecane	156	C11H24	001120-21-4	64
2			Pentan-2-yl 2-methylbutanoate	172	C10H20O2	1000372-71-7	59
3			Sulfurous acid, butyl nonyl ester	264	C13H28O3S	1000309-17-6	53
4			Oxalic acid, bis(2-ethylhexyl) e...	314	C18H34O4	1000309-39-0	50
5			Nonane, 5-(2-methylpropyl)-	184	C13H28	062185-53-9	47



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042274.D
Acq On : 08 Apr 2025 22:11
Operator : SY/MD
Sample : Q1728-11 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025

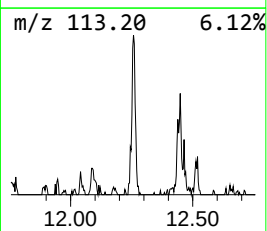
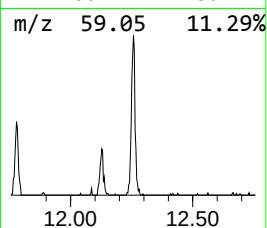
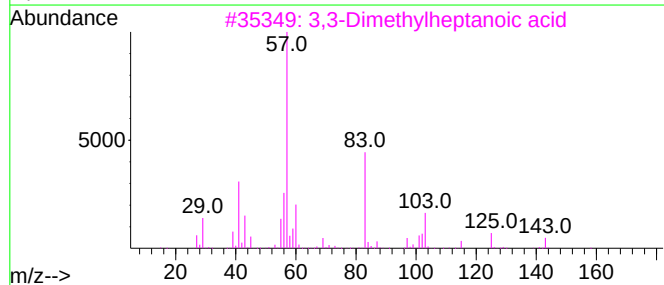
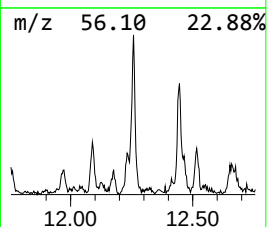
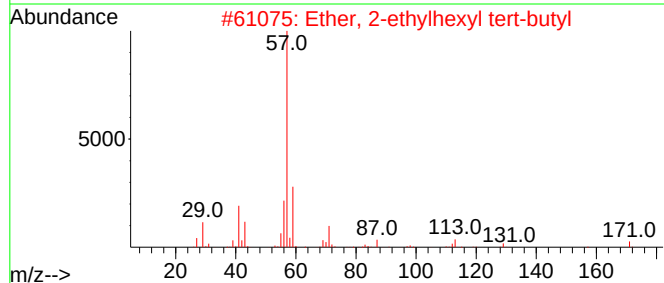
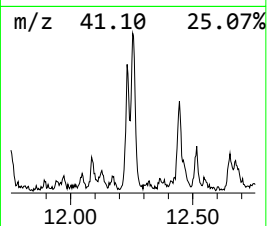
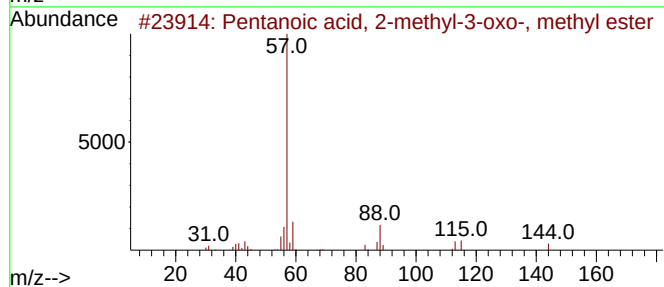
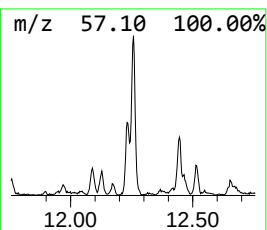
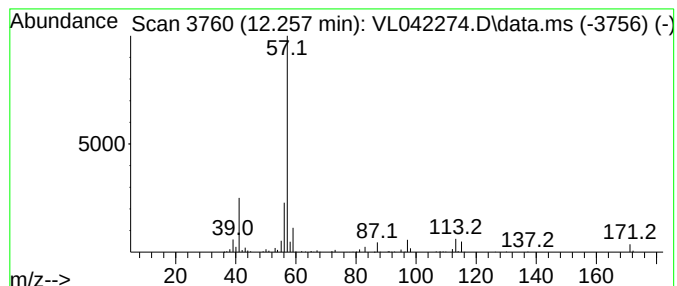
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 4 unknown12.257 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.257	1.64 ppbv	214082	Chlorobenzene-d5	8.885

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentanoic acid, 2-methyl-3-oxo-,...	144	C7H12O3	017422-12-7	47
2			Ether, 2-ethylhexyl tert-butyl	186	C12H26O	083704-03-4	42
3			3,3-Dimethylheptanoic acid	158	C9H18O2	067061-30-7	39
4			di-tert-Butyl acetylenedicarboxy...	226	C12H18O4	066086-33-7	37
5			Propane, 1-(1,1-dimethylethoxy)-...	144	C9H20O	032970-46-0	32



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042274.D
Acq On : 08 Apr 2025 22:11
Operator : SY/MD
Sample : Q1728-11 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025

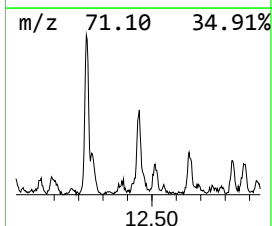
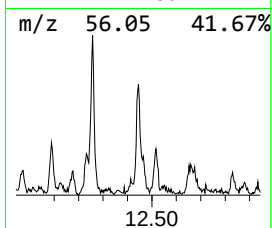
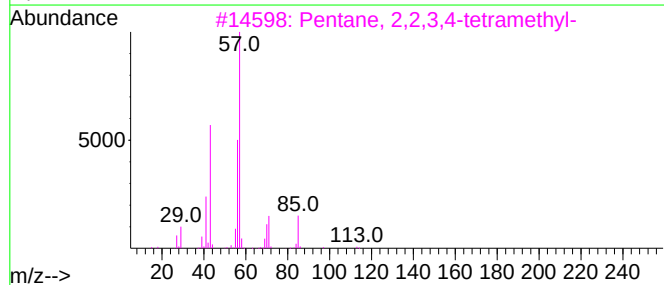
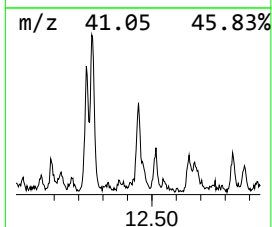
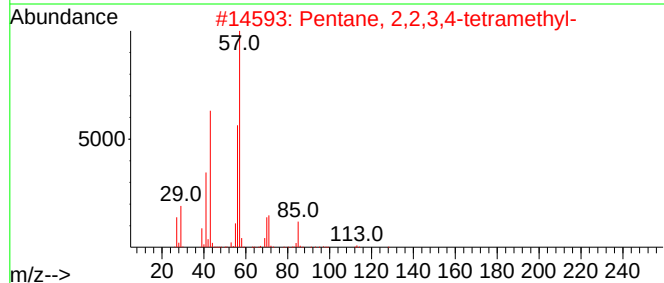
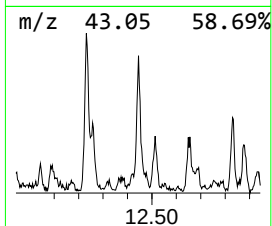
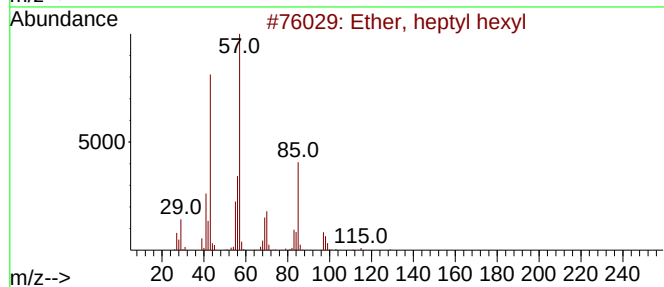
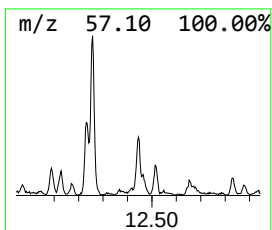
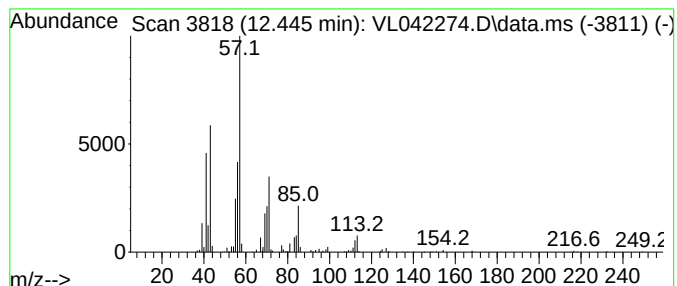
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 5 Ether, heptyl hexyl Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.445	1.35 ppbv	175979	Chlorobenzene-d5	8.885

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Ether, heptyl hexyl	200	C13H28O	007289-40-9	64
2			Pentane, 2,2,3,4-tetramethyl-	128	C9H20	001186-53-4	59
3			Pentane, 2,2,3,4-tetramethyl-	128	C9H20	001186-53-4	53
4			Decane, 2,6,7-trimethyl-	184	C13H28	062108-25-2	50
5			Pentane, 2,2,3,4-tetramethyl-	128	C9H20	001186-53-4	50



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042274.D
Acq On : 08 Apr 2025 22:11
Operator : SY/MD
Sample : Q1728-11 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Undecane	12.232	1.6	ppbv	206603	3	8.885	1303440	10.0
unknown12.257	12.257	1.6	ppbv	214082	3	8.885	1303440	10.0
Ether, heptyl h...	12.445	1.4	ppbv	175979	3	8.885	1303440	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-B1-3-04012025	SDG No.:	Q1728
Lab Sample ID:	Q1728-12	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
VL042275.D	2		04/08/25 22:42	VL040825

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	0.23	0.47	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	0.45	1.36	J	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	20.4	48.5		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	2.30	7.99		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	0.50	1.47	J	0.71	2.95	ug/m3
56-23-5	Carbon Tetrachloride	0.14	0.88		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	6.20	30.3		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	0.28	0.89	J	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	0.10	0.54		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	0.95	3.58	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-B1-3-04012025	SDG No.:	Q1728
Lab Sample ID:	Q1728-12	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
VL042275.D	2		04/08/25 22:42	VL040825

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	0.48	3.25		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	0.24	1.04	U	1.04	4.34	ug/m3
179601-23-1	m/p-Xylene	0.70	3.04	J	1.82	8.69	ug/m3
95-47-6	o-Xylene	0.28	1.22	J	1.04	4.34	ug/m3
100-42-5	Styrene	0.22	0.94	U	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	0.23	1.13	J	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	0.64	2.26	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	9.50		70 (65) - 130 (135)	95%	SPK: 10

INTERNAL STANDARDS

74-97-5	Bromochloromethane	160000	2.794
540-36-3	1,4-Difluorobenzene	399000	3.968
3114-55-4	Chlorobenzene-d5	356000	8.891

TENTATIVE IDENTIFIED COMPOUNDS

75-45-6	Chlorodifluoromethane	0.35	J	1.48	ppbv
115-07-1	Propene	0.42	J	1.49	ppbv
000115-11-7	1-Propene, 2-methyl-	2.30	J	1.61	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-B1-3-04012025	SDG No.:	Q1728
Lab Sample ID:	Q1728-12	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
VL042275.D	2		04/08/25 22:42	VL040825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
64-17-5	Ethanol	24.2		J		1.73	ppbv
67-63-0	Isopropyl Alcohol	14.2		J		1.89	ppbv
017312-82-2	Undecane, 4,6-dimethyl-	3.40		J		12.2	ppbv
032970-46-0	Propane, 1-(1,1-dimethylethoxy)-2,	3.60		J		12.3	ppbv
062016-28-8	Octane, 2,2,6-trimethyl-	2.30		J		12.4	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\VL040825\
 Data File : VL042275.D
 Acq On : 08 Apr 2025 22:42
 Operator : SY/MD
 Sample : Q1728-12 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-3-04012025

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
 Supervised By :Semsettin Yesilyurt 04/10/2025

Quant Time: Apr 09 02:01:29 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	2.794	49	160295	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	399383	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.891	117	355820	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	276732	9.470	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	5426	0.229	ppbv #	77
3) Chlorodifluoromethane	1.479	51	4252m	0.176	ppbv	
4) Chloromethane	1.534	50	1118	0.116	ppbv	100
9) Propene	1.486	41	2314	0.209	ppbv	88
11) Trichlorofluoromethane	1.884	101	2674	0.116	ppbv	90
13) Ethanol	1.725	45	12651	12.076	ppbv	89
15) Acetone	1.839	43	228835	10.208	ppbv	96
17) tert-Butyl alcohol	2.046	59	6274	0.225	ppbv	95
19) Isopropyl Alcohol	1.890	45	90023	7.117	ppbv #	67
20) Methylene Chloride	2.065	84	9525	1.141	ppbv #	91
26) Hexane	2.836	57	7214	0.321	ppbv #	33
29) Chloroform	2.855	83	101229	3.078	ppbv	95
34) 2-Butanone	2.570	43	7264	0.251	ppbv	95
35) Carbon Tetrachloride	3.777	117	2231m	0.072	ppbv	
36) Benzene	3.667	78	5508m	0.139	ppbv	
38) Trichloroethene	4.554	130	793m	0.048	ppbv	
52) Tetrachloroethene	8.231	164	3738m	0.238	ppbv	
53) Toluene	6.953	91	22387m	0.477	ppbv	
58) Ethyl Benzene	9.364	91	6292	0.100	ppbv	92
59) m/p-Xylene	9.539	91	17779m	0.352	ppbv	
60) o-Xylene	9.972	91	7001	0.138	ppbv	94
74) 1,2,4-Trimethylbenzene	11.542	105	7204	0.114	ppbv #	67

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

Manual Integrations

Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

TIC: VL042275.D\data.ms

Abundance

Time-->

3200000

3000000

2800000

2600000

2400000

2200000

2000000

1800000

1600000

1400000

1200000

1000000

800000

600000

400000

200000

0

1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00 18.00 19.00 20.00 21.00

Chlorobenzene-d5, I

Chlorobenzene, T

Acetone, T

tert-Butylchloride, I

tert-Butylchloride, T

2-Butanone, T

Hexane, T

Bromochloromethane, I

Chloroform, T

1,4-Difluorobenzene, I

1,4-Difluorobenzene, T

Trichloroethene, T

Toluene, T

Tetrachloroethene, T

Chlorobenzene-d5, I

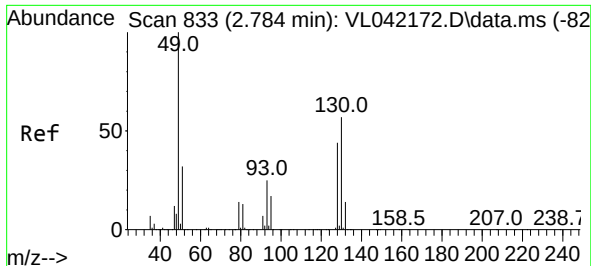
Ethyl Benzene, T

m,p-Xylene, I

o-Xylene, T

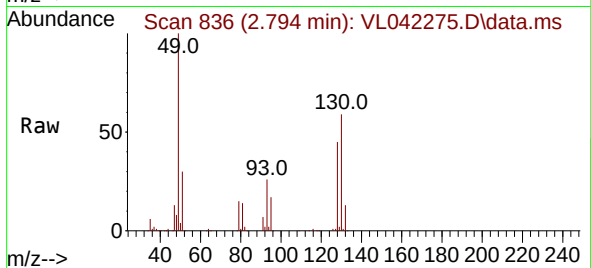
1,2,4-Trimethylbenzene, T

1-Bromo-4-Fluorobenzene, S



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 836
Delta R.T. 0.010 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

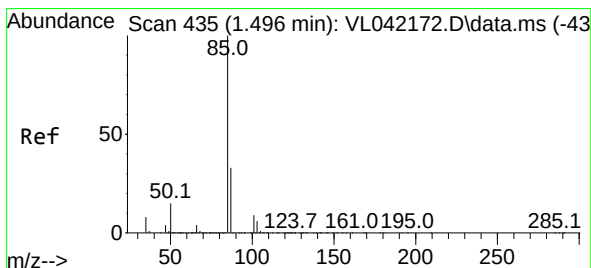
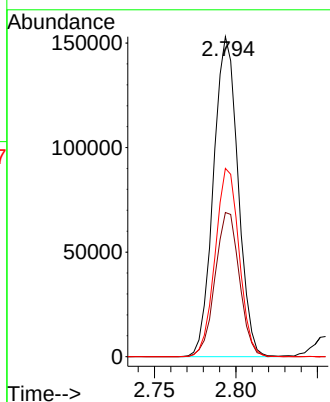
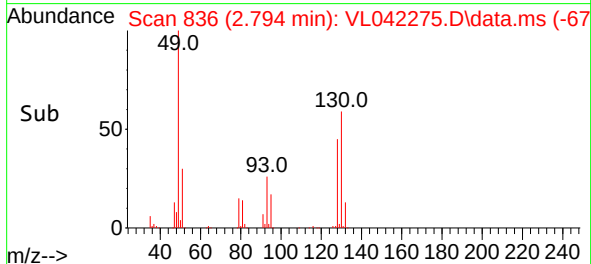
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-3-04012025



Tgt Ion: 49 Resp: 16029
Ion Ratio Lower Upper
49 100
128 44.6 22.9 68.5
130 57.4 28.8 86.4

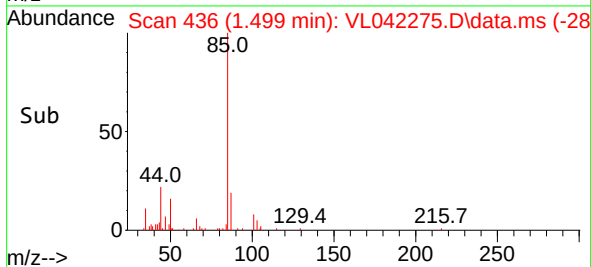
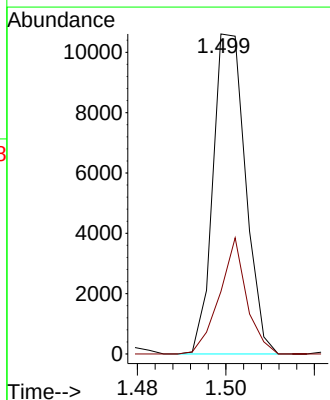
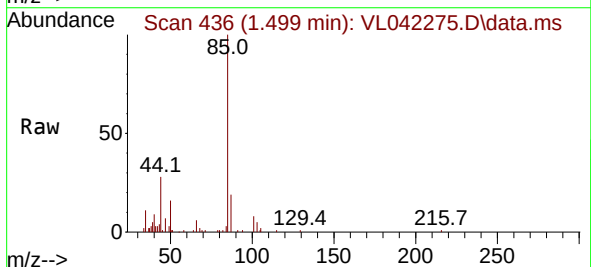
Manual Integrations
APPROVED

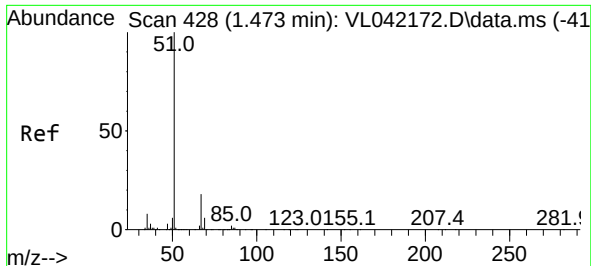
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#2
Dichlorodifluoromethane
Concen: 0.229 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

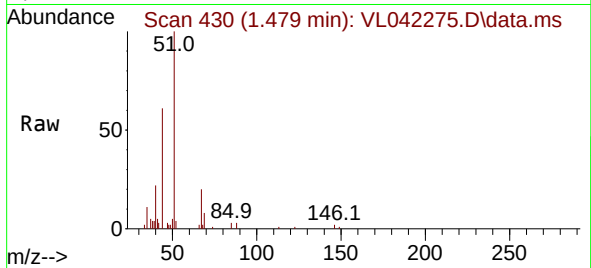
Tgt Ion: 85 Resp: 5426
Ion Ratio Lower Upper
85 100
87 19.5 26.1 39.1#





#3
Chlorodifluoromethane
Concen: 0.176 ppbv m
RT: 1.479 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

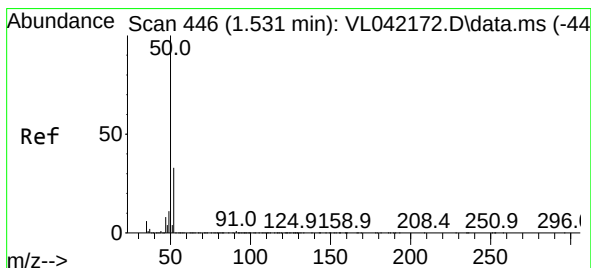
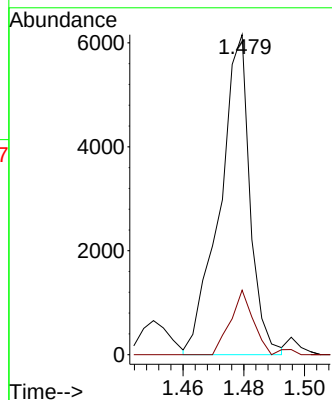
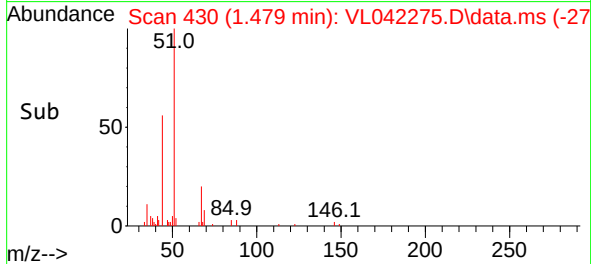
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-3-04012025



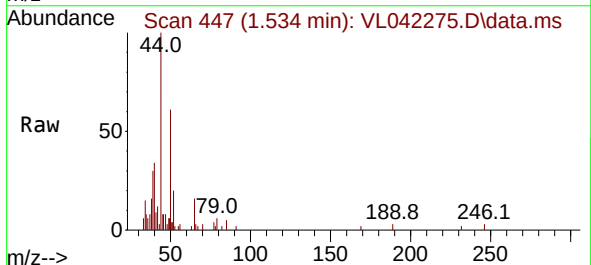
Tgt Ion: 51 Resp: 425
Ion Ratio Lower Upper
51 100
67 9.2 15.0 22.6

Manual Integrations
APPROVED

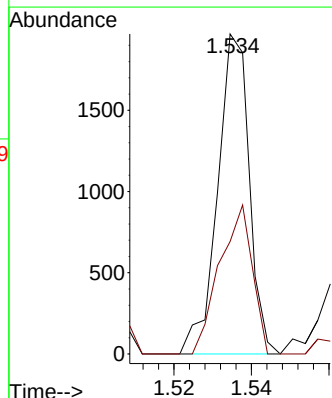
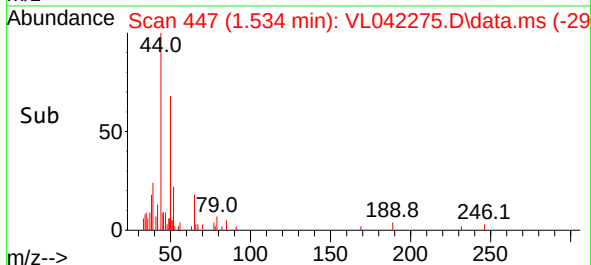
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

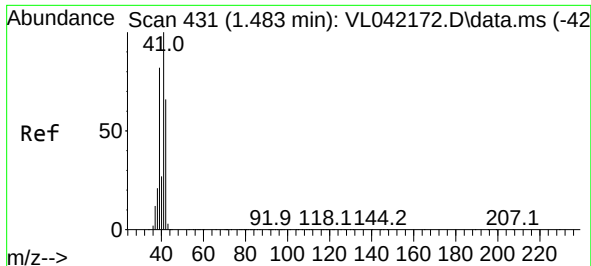


#4
Chloromethane
Concen: 0.116 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42



Tgt Ion: 50 Resp: 1118
Ion Ratio Lower Upper
50 100
52 32.8 26.1 39.1





#9

Propene

Concen: 0.209 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042275.D

Acq: 08 Apr 2025 22:42

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B1-3-04012025

Tgt Ion: 41 Resp: 2314

Ion Ratio Lower Upper

41 100

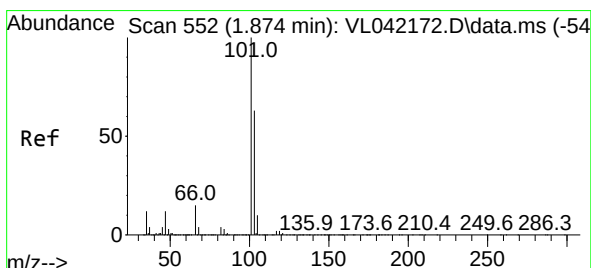
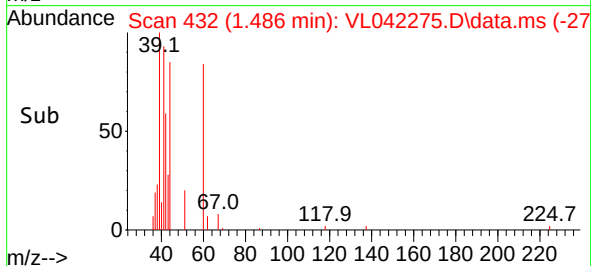
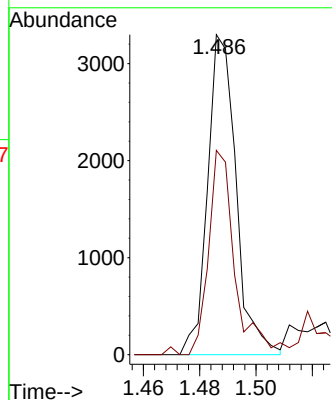
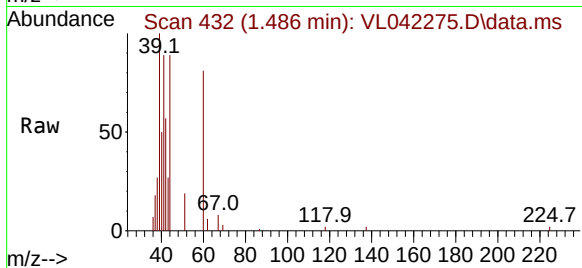
42 59.7 55.4 83.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025

Supervised By :Semsettin Yesilyurt 04/10/2025



#11

Trichlorofluoromethane

Concen: 0.116 ppbv

RT: 1.884 min Scan# 555

Delta R.T. 0.010 min

Lab File: VL042275.D

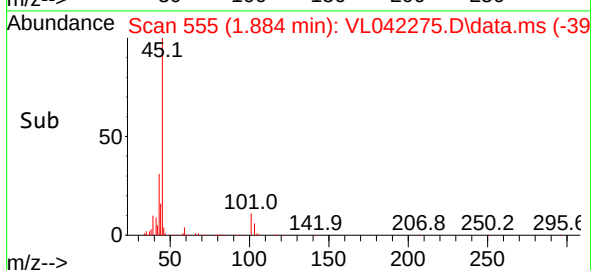
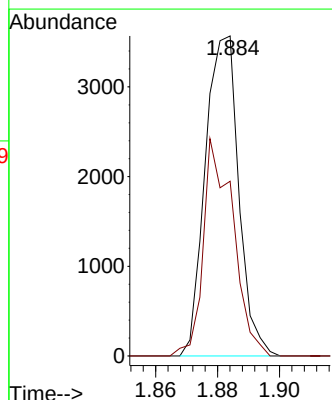
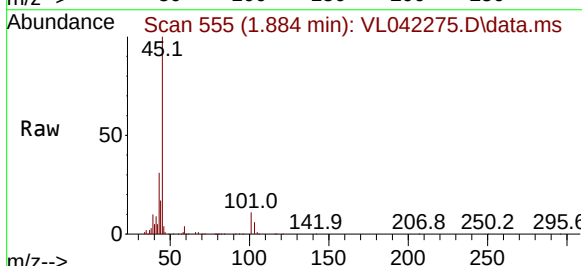
Acq: 08 Apr 2025 22:42

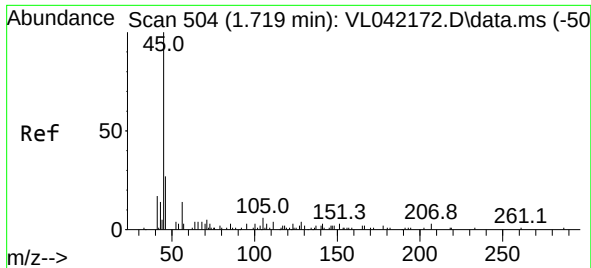
Tgt Ion:101 Resp: 2674

Ion Ratio Lower Upper

101 100

103 54.6 50.2 75.2





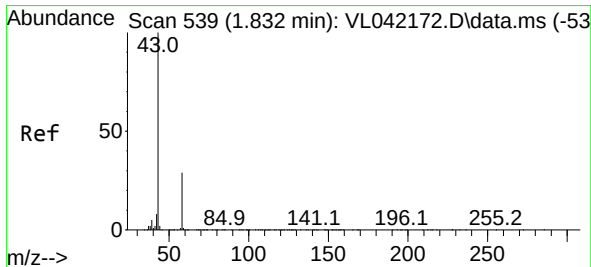
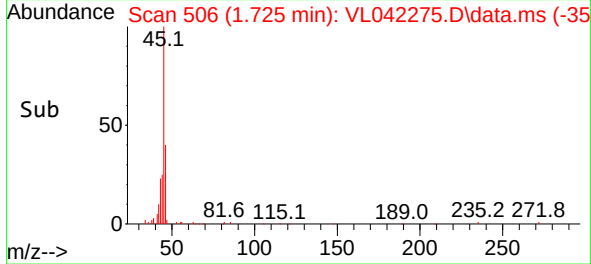
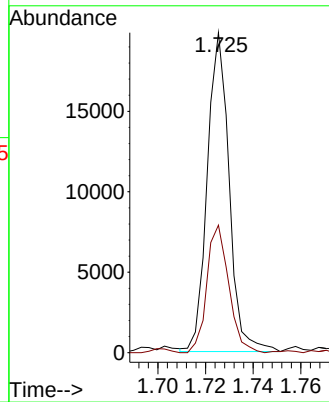
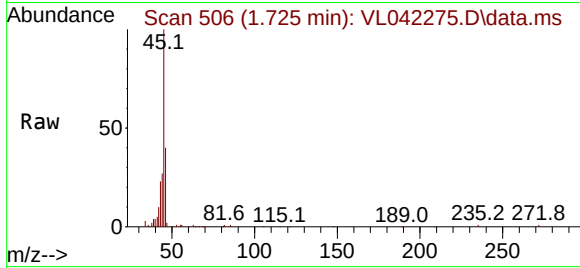
#13
Ethanol
Concen: 12.076 ppbv
RT: 1.725 min Scan# 504
Delta R.T. 0.006 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-3-04012025

Tgt Ion: 45 Resp: 1265
Ion Ratio Lower Upper
45 100
46 42.5 20.2 80.8

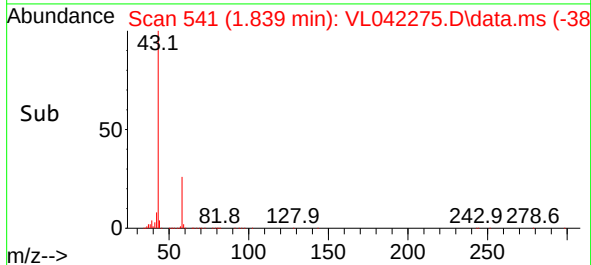
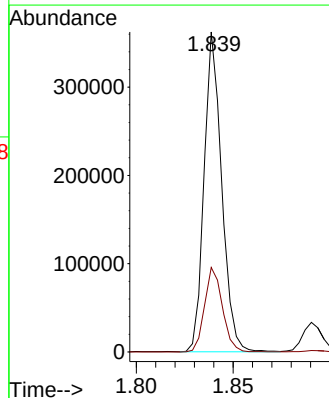
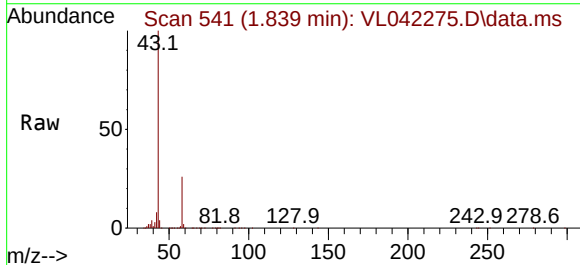
Manual Integrations
APPROVED

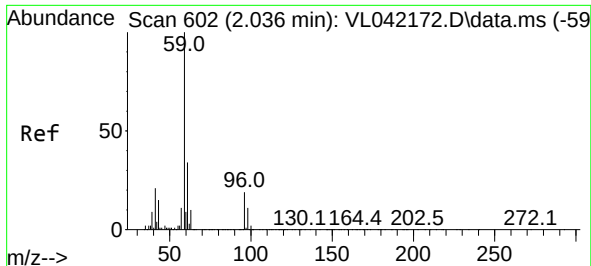
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#15
Acetone
Concen: 10.208 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

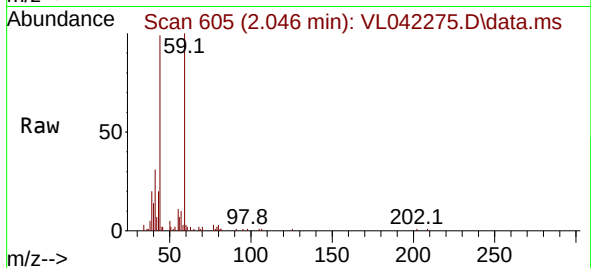
Tgt Ion: 43 Resp: 228835
Ion Ratio Lower Upper
43 100
58 26.8 23.2 34.8





#17
tert-Butyl alcohol
Concen: 0.225 ppbv
RT: 2.046 min Scan# 602
Delta R.T. 0.010 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

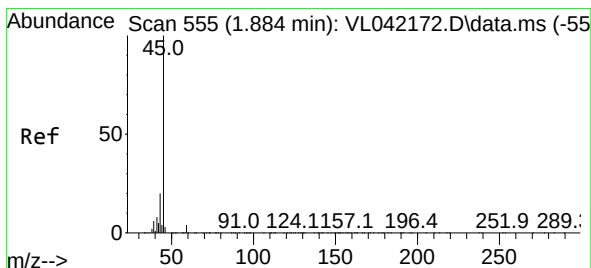
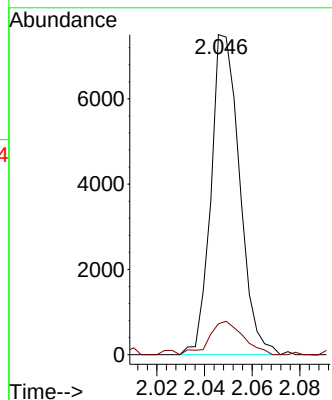
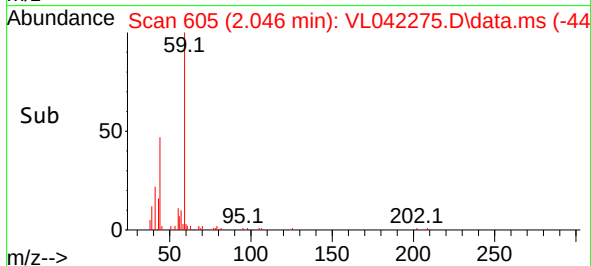
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-3-04012025



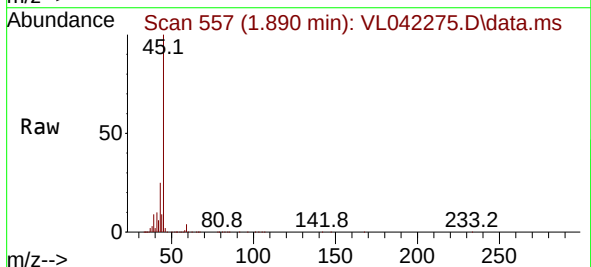
Tgt Ion: 59 Resp: 6274
Ion Ratio Lower Upper
59 100
57 13.1 8.9 13.3

Manual Integrations
APPROVED

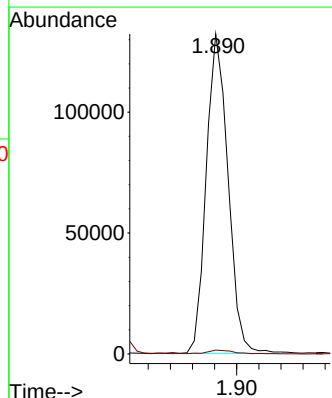
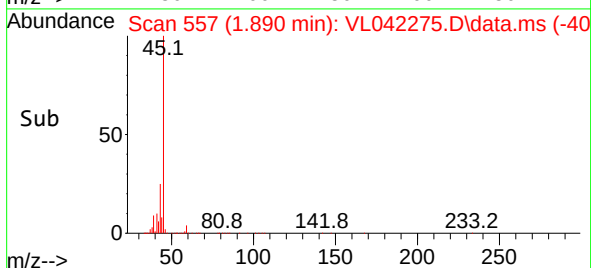
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

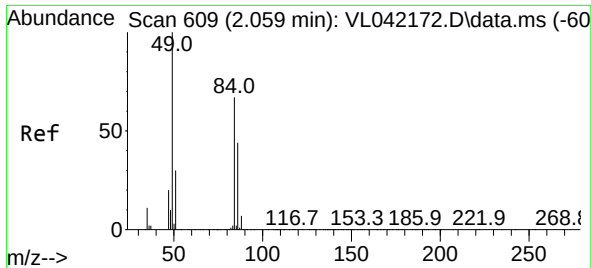


#19
Isopropyl Alcohol
Concen: 7.117 ppbv
RT: 1.890 min Scan# 557
Delta R.T. 0.006 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42



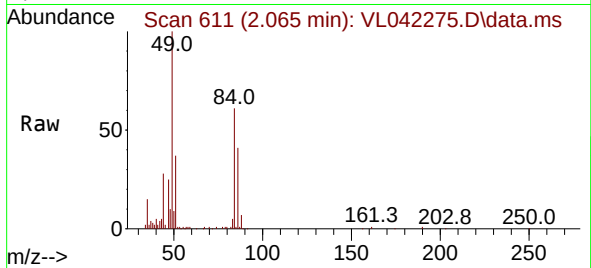
Tgt Ion: 45 Resp: 90023
Ion Ratio Lower Upper
45 100
58 68.1 36.9 55.3#





#20
Methylene Chloride
Concen: 1.141 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

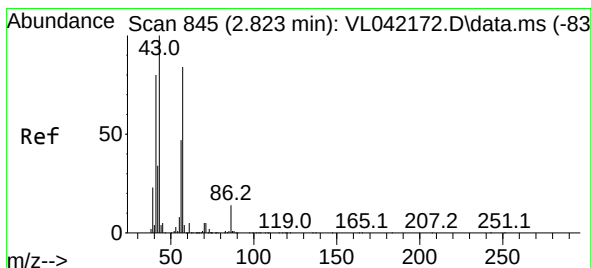
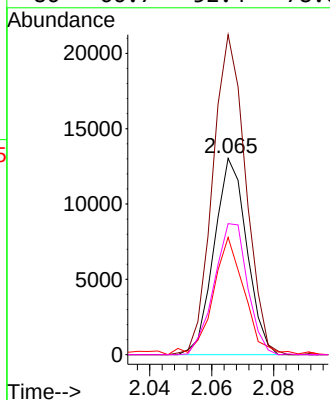
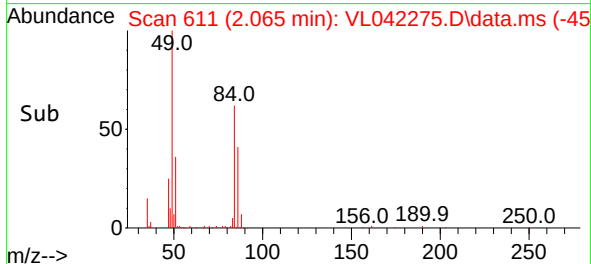
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-3-04012025



Tgt Ion: 84	Resp: 952
Ion Ratio	Lower Upper
84	100
49	162.1 120.2 180.4
51	58.4 37.4 56.0
86	66.7 52.4 78.6

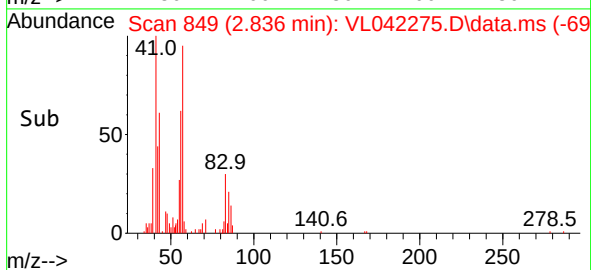
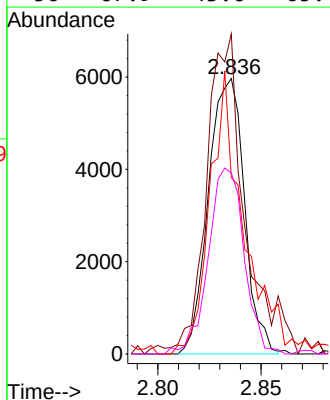
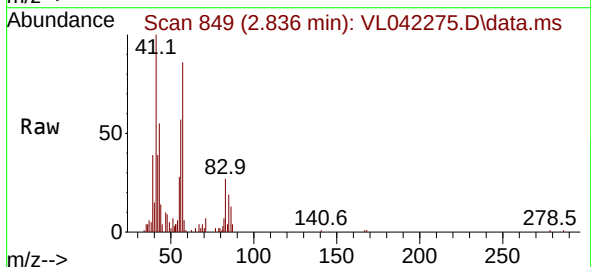
Manual Integrations
APPROVED

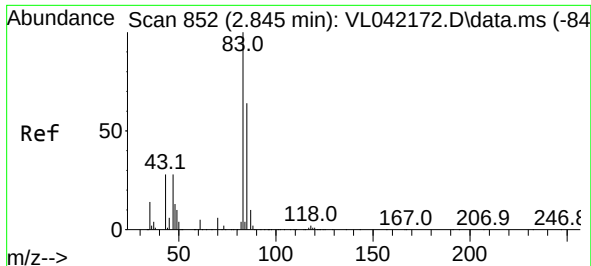
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#26
Hexane
Concen: 0.321 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.013 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

Tgt Ion: 57	Resp: 7214
Ion Ratio	Lower Upper
57	100
41	127.3 76.6 114.8#
43	99.3 207.8 311.8#
56	67.9 43.6 65.4#





#29

Chloroform

Concen: 3.078 ppbv

RT: 2.855 min Scan# 85

Delta R.T. 0.010 min

Lab File: VL042275.D

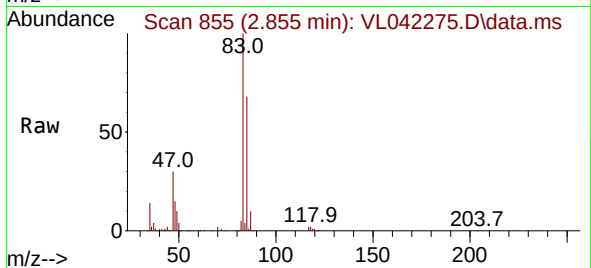
Acq: 08 Apr 2025 22:42

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B1-3-04012025



Tgt Ion: 83 Resp: 101229

Ion Ratio Lower Upper

83 100

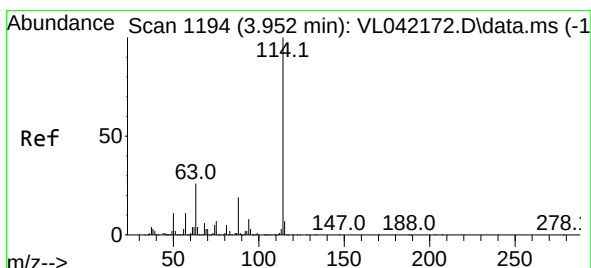
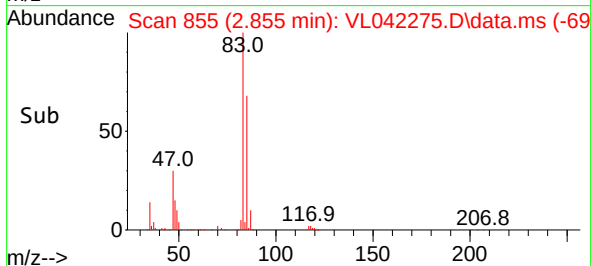
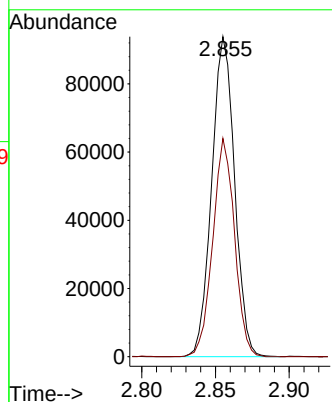
85 68.2 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025

Supervised By :Semsettin Yesilyurt 04/10/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. 0.016 min

Lab File: VL042275.D

Acq: 08 Apr 2025 22:42

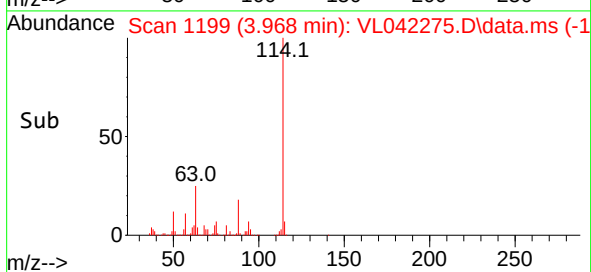
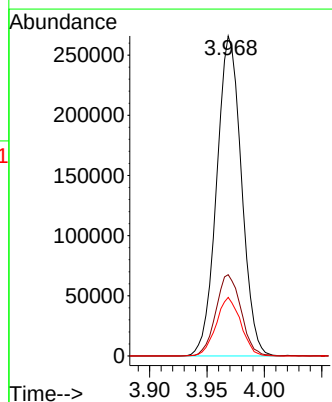
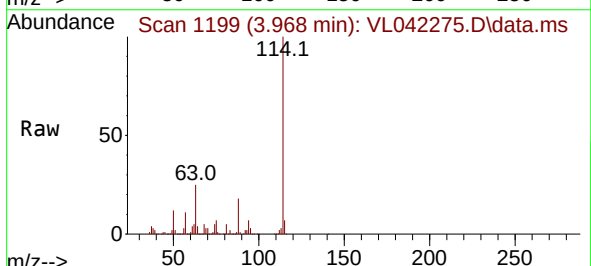
Tgt Ion:114 Resp: 399383

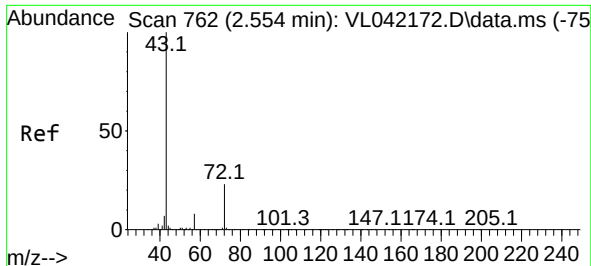
Ion Ratio Lower Upper

114 100

63 25.9 20.7 31.1

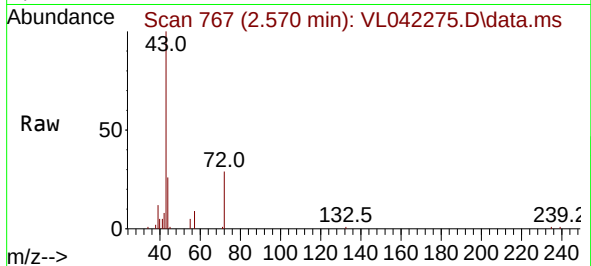
88 18.1 15.0 22.4





#34
2-Butanone
Concen: 0.251 ppbv
RT: 2.570 min Scan# 71
Delta R.T. 0.016 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

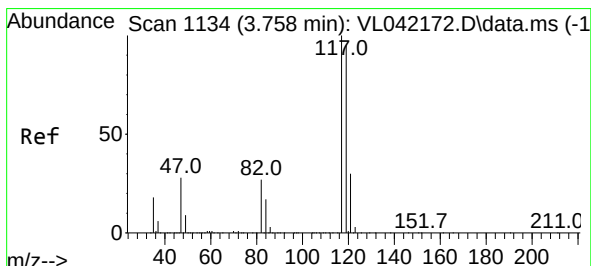
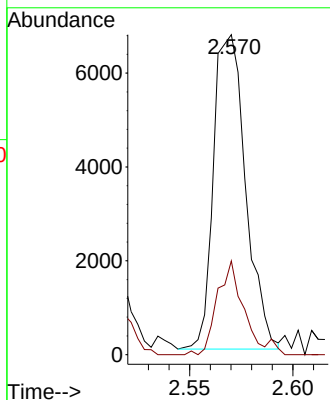
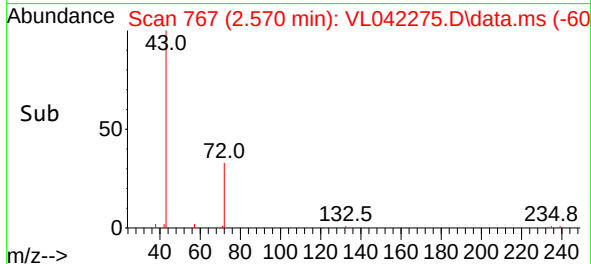
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-3-04012025



Tgt Ion: 43 Resp: 7264
Ion Ratio Lower Upper
43 100
72 25.0 18.2 27.2

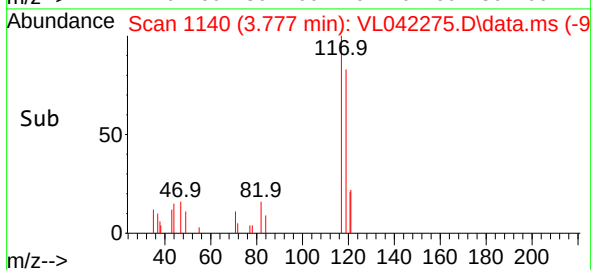
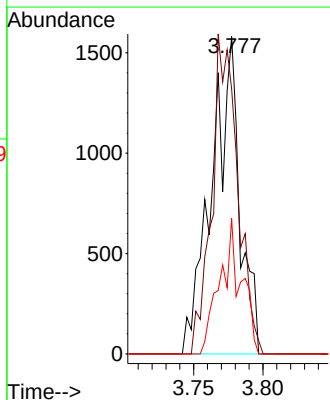
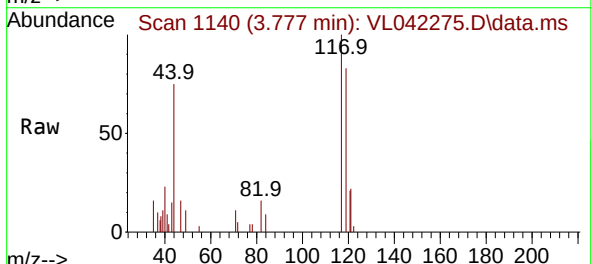
Manual Integrations
APPROVED

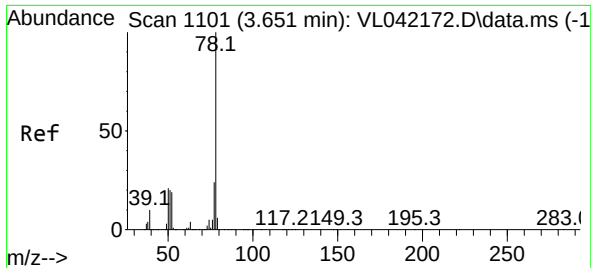
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#35
Carbon Tetrachloride
Concen: 0.072 ppbv m
RT: 3.777 min Scan# 1140
Delta R.T. 0.019 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

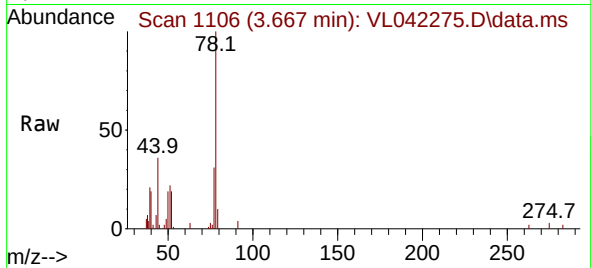
Tgt Ion:117 Resp: 2231
Ion Ratio Lower Upper
117 100
119 83.5 76.2 114.2
121 21.8 24.2 36.4#





#36
Benzene
Concen: 0.139 ppbv m
RT: 3.667 min Scan# 1106
Delta R.T. 0.016 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

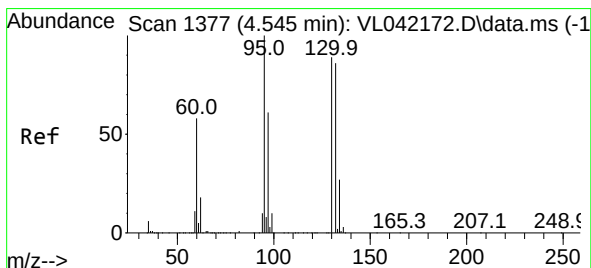
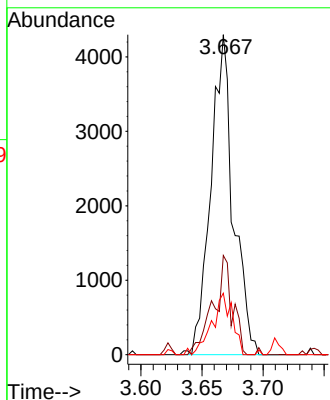
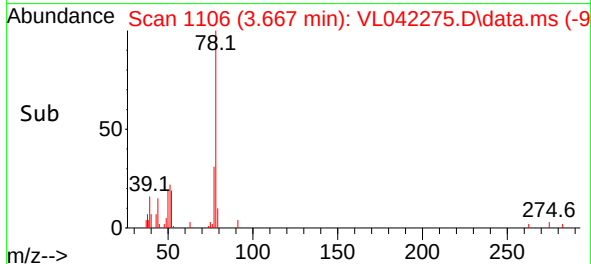
Instrument : MSVOA_L
ClientSampleId : SSSG-B1-3-04012025



Tgt Ion: 78 Resp: 5508
Ion Ratio Lower Upper
78 100
77 31.0 19.1 28.7
50 19.2 16.6 24.8

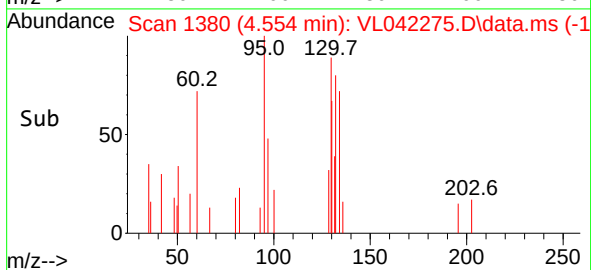
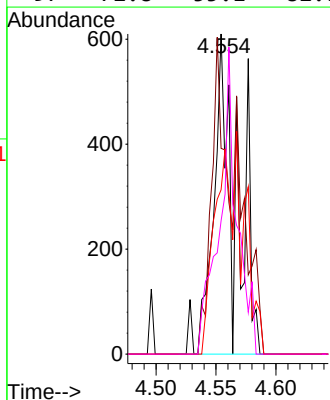
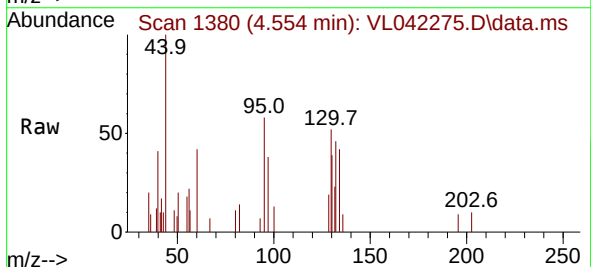
Manual Integrations
APPROVED

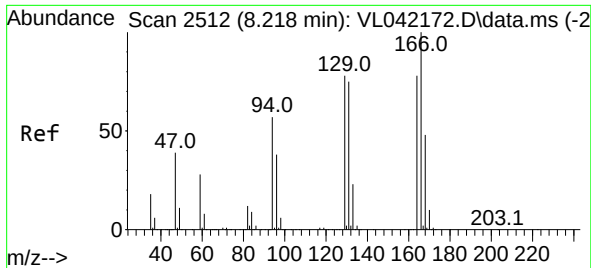
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#38
Trichloroethene
Concen: 0.048 ppbv m
RT: 4.554 min Scan# 1380
Delta R.T. 0.010 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

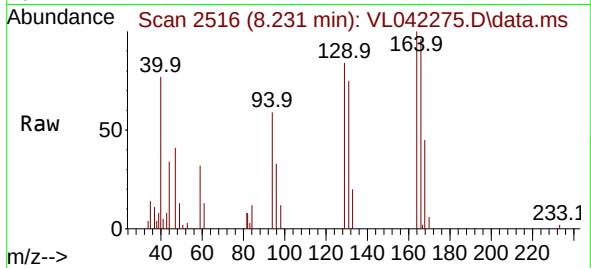
Tgt Ion:130 Resp: 793
Ion Ratio Lower Upper
130 100
95 112.3 89.8 134.8
132 89.7 77.4 116.2
97 72.8 55.1 82.7





#52
Tetrachloroethene
Concen: 0.238 ppbv m
RT: 8.231 min Scan# 2116
Delta R.T. 0.013 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

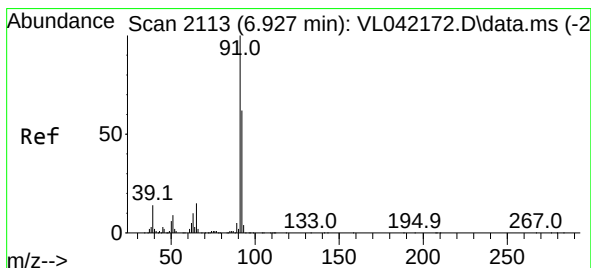
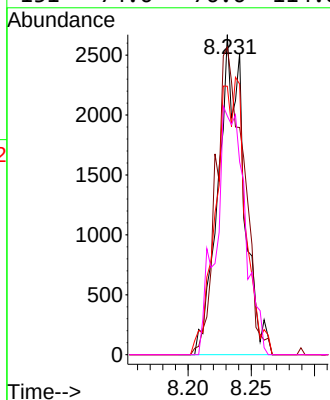
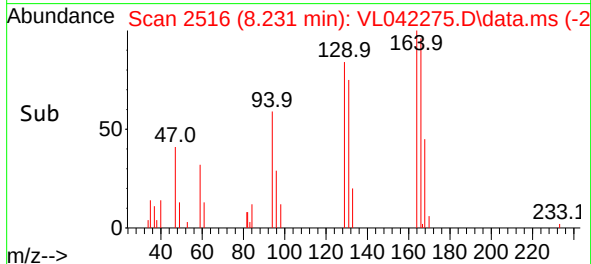
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-3-04012025



Tgt Ion:164 Resp: 3738
Ion Ratio Lower Upper
164 100
166 96.1 102.5 153.7
129 83.9 79.8 119.8
131 74.6 76.6 114.8#

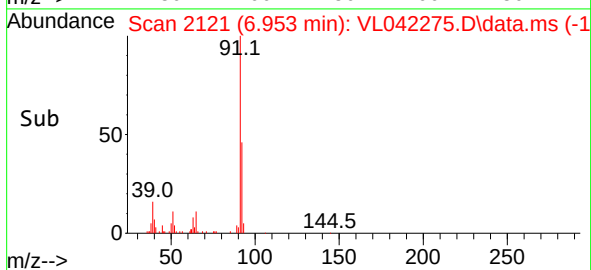
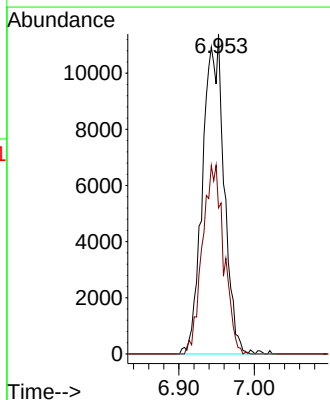
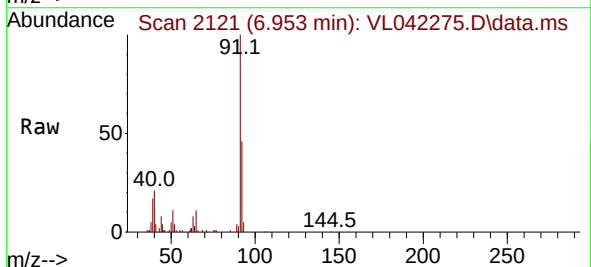
Manual Integrations
APPROVED

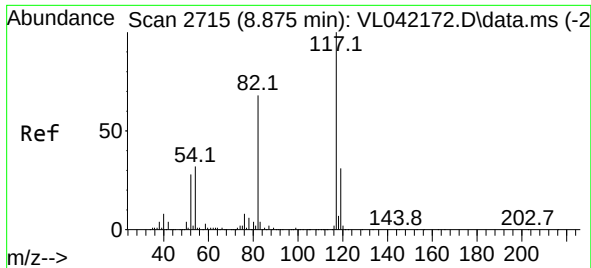
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#53
Toluene
Concen: 0.477 ppbv m
RT: 6.953 min Scan# 2121
Delta R.T. 0.026 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

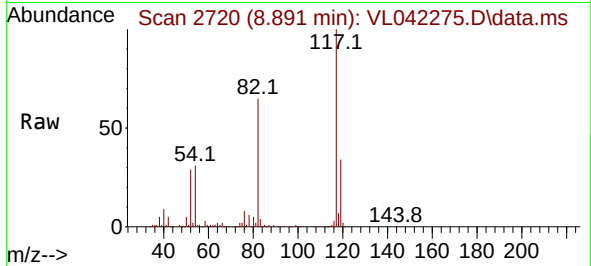
Tgt Ion: 91 Resp: 22387
Ion Ratio Lower Upper
91 100
92 59.4 48.4 72.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

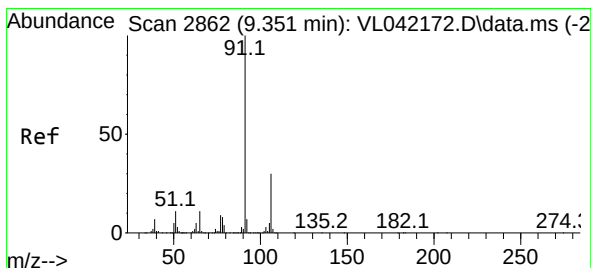
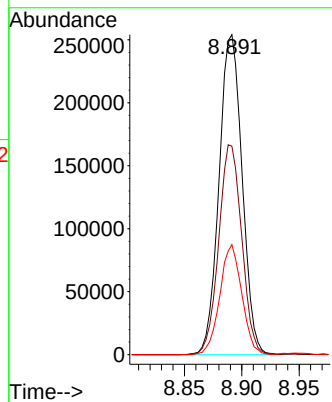
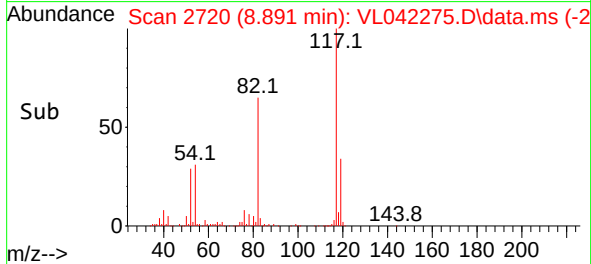
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-3-04012025



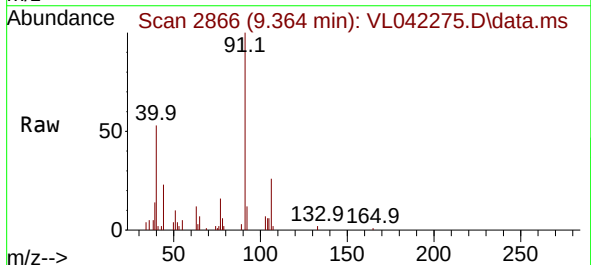
Tgt Ion: 117 Resp: 355820
Ion Ratio Lower Upper
117 100
82 65.5 55.8 83.6
119 32.8 25.5 38.3

Manual Integrations
APPROVED

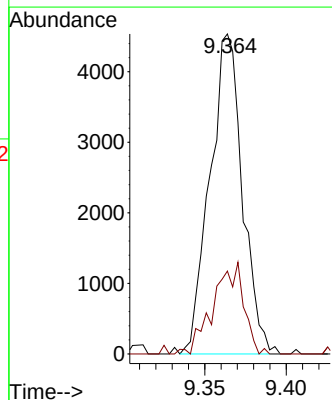
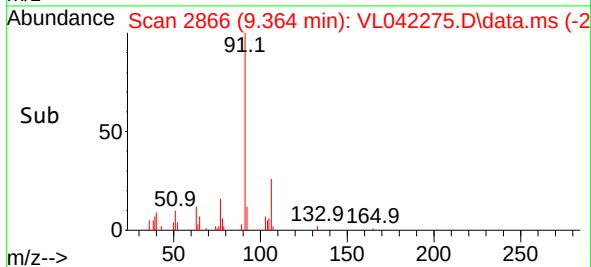
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

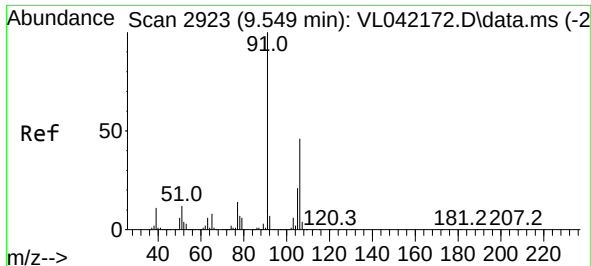


#58
Ethyl Benzene
Concen: 0.100 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.013 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42



Tgt Ion: 91 Resp: 6292
Ion Ratio Lower Upper
91 100
106 25.9 24.2 36.2





#59

m/p-Xylene

Concen: 0.352 ppbv m

RT: 9.539 min Scan# 2923

Delta R.T. -0.010 min

Lab File: VL042275.D

Acq: 08 Apr 2025 22:42

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B1-3-04012025

Tgt Ion: 91 Resp: 17779

Ion Ratio Lower Upper

91 100

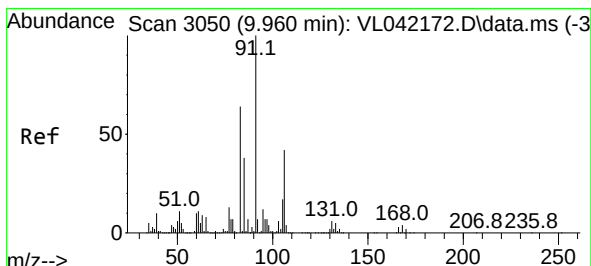
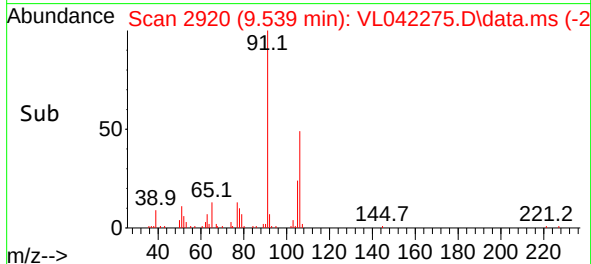
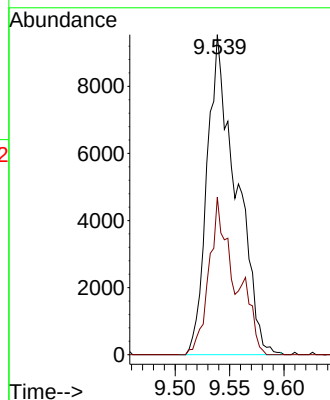
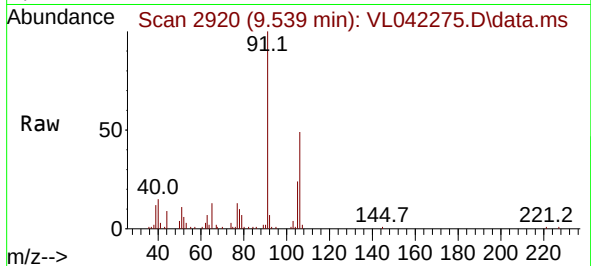
106 0.0 36.4 54.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025

Supervised By :Semsettin Yesilyurt 04/10/2025



#60

o-Xylene

Concen: 0.138 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. 0.013 min

Lab File: VL042275.D

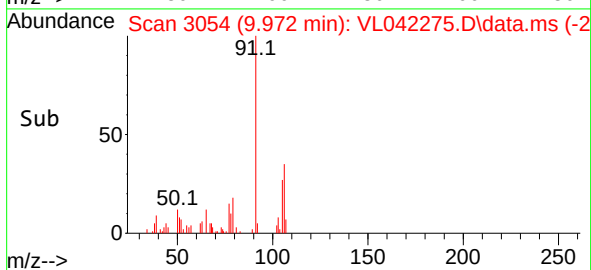
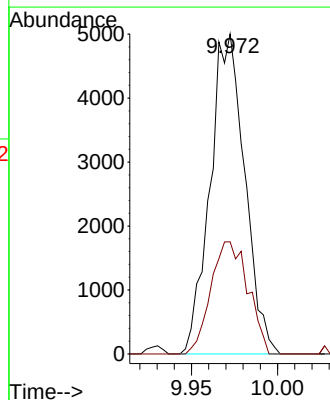
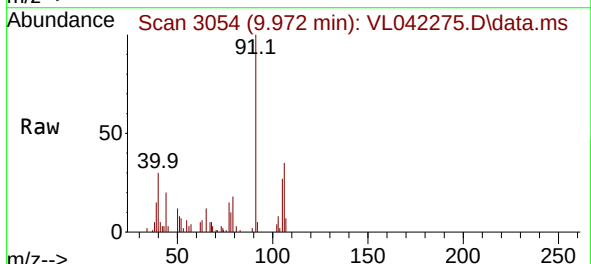
Acq: 08 Apr 2025 22:42

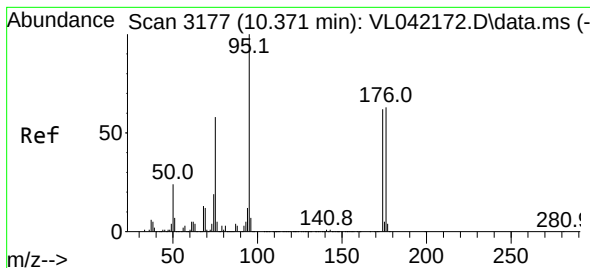
Tgt Ion: 91 Resp: 7001

Ion Ratio Lower Upper

91 100

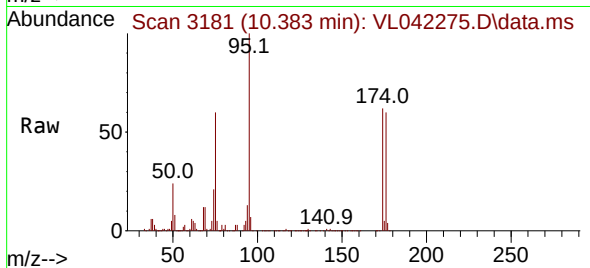
106 37.6 20.8 62.5





#68
1-Bromo-4-Fluorobenzene
Concen: 9.470 ppbv
RT: 10.383 min Scan# 3177
Delta R.T. 0.013 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

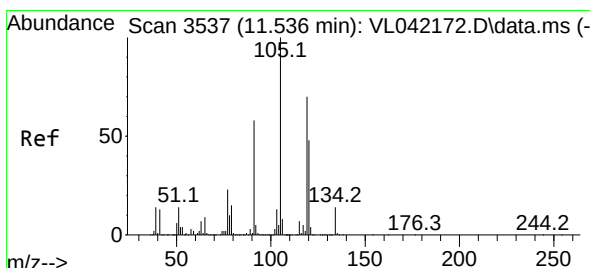
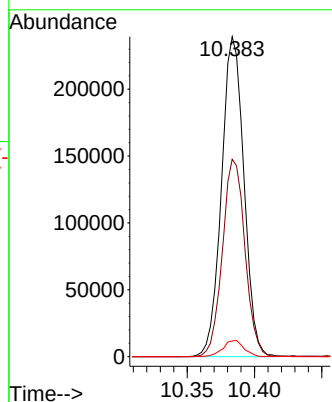
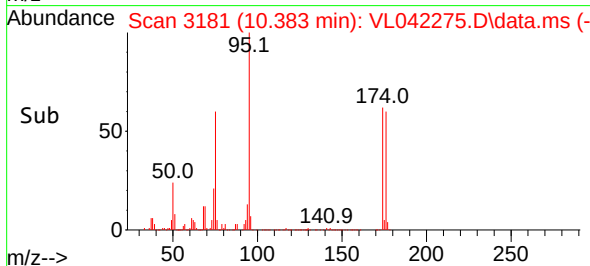
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-3-04012025



Tgt Ion: 95 Resp: 276732
Ion Ratio Lower Upper
95 100
174 62.2 50.6 76.0
175 4.8 3.8 5.6

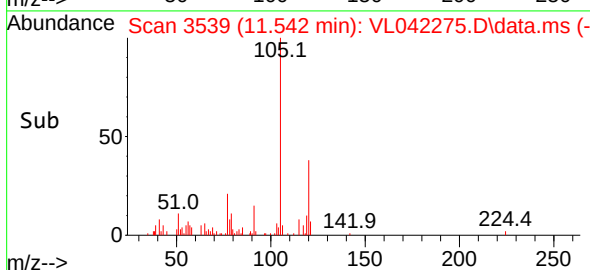
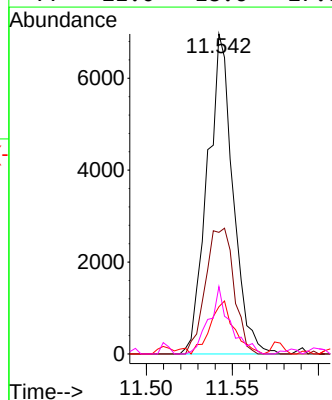
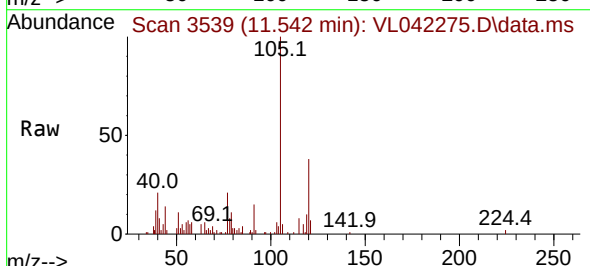
Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.114 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.006 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

Tgt Ion:105 Resp: 7204
Ion Ratio Lower Upper
105 100
120 38.0 38.6 58.0#
91 13.2 46.2 69.2#
77 21.0 18.6 27.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042275.D
 Acq On : 08 Apr 2025 22:42
 Operator : SY/MD
 Sample : Q1728-12 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-3-04012025

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: VL042275.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	421	rBV	4161752	4667001	100.00%	33.802%
2	1.560	451	455	460	rBV	127933	70932	1.52%	0.514%
3	1.606	463	469	472	rVV	118206	68942	1.48%	0.499%
4	1.839	536	541	550	rBV	552799	377045	8.08%	2.731%
5	1.890	550	557	562	rBV	223224	157659	3.38%	1.142%
6	2.794	828	836	844	rBV	575476	598255	12.82%	4.333%
7	2.855	844	855	865	rVB	263998	319571	6.85%	2.315%
8	3.968	1187	1199	1213	rBV	700254	1077567	23.09%	7.805%
9	6.943	2107	2118	2129	rBV4	31533	63407	1.36%	0.459%
10	8.891	2704	2720	2729	rBV	901927	1266924	27.15%	9.176%
11	8.950	2729	2738	2748	rVB3	77342	122860	2.63%	0.890%
12	10.383	3165	3181	3193	rBV	1148907	1325641	28.40%	9.601%
13	11.782	3601	3613	3623	rVB3	99227	135911	2.91%	0.984%
14	12.235	3745	3753	3757	rBV	186714	215373	4.61%	1.560%
15	12.257	3757	3760	3775	rVB	208087	225659	4.84%	1.634%
16	12.445	3811	3818	3833	rVB	101267	146106	3.13%	1.058%
17	12.516	3833	3840	3847	rBV2	47593	55214	1.18%	0.400%
18	12.659	3874	3884	3887	rBV6	36928	49676	1.06%	0.360%
19	13.390	4100	4110	4120	rBV	2690107	2863041	61.35%	20.736%

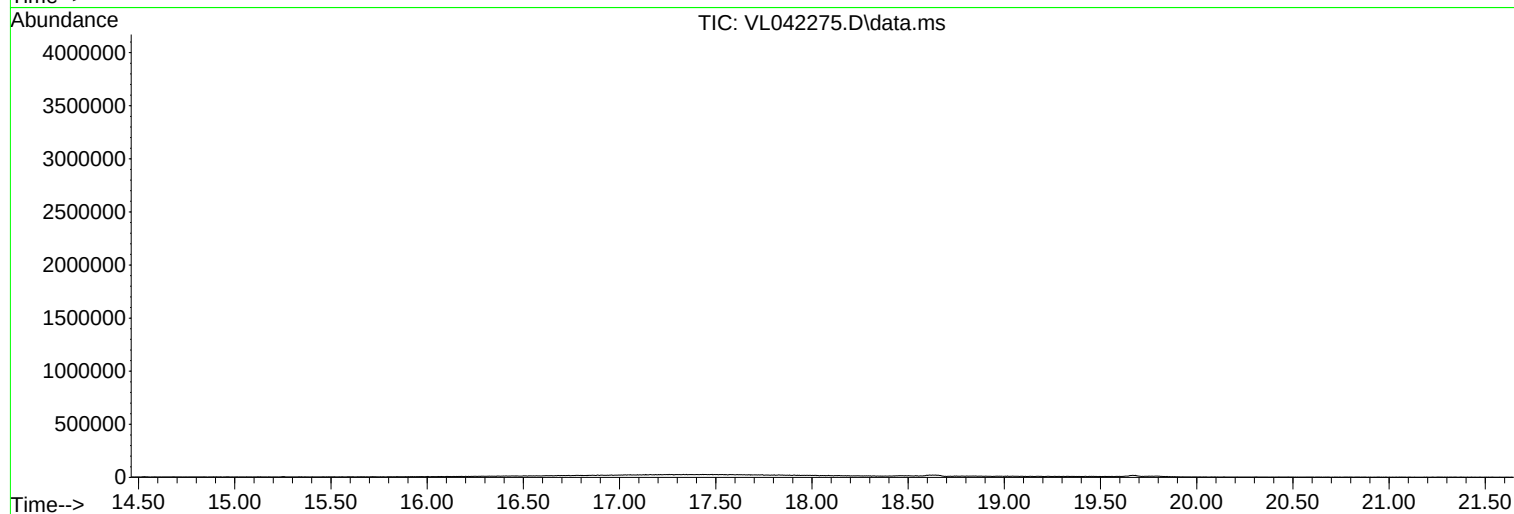
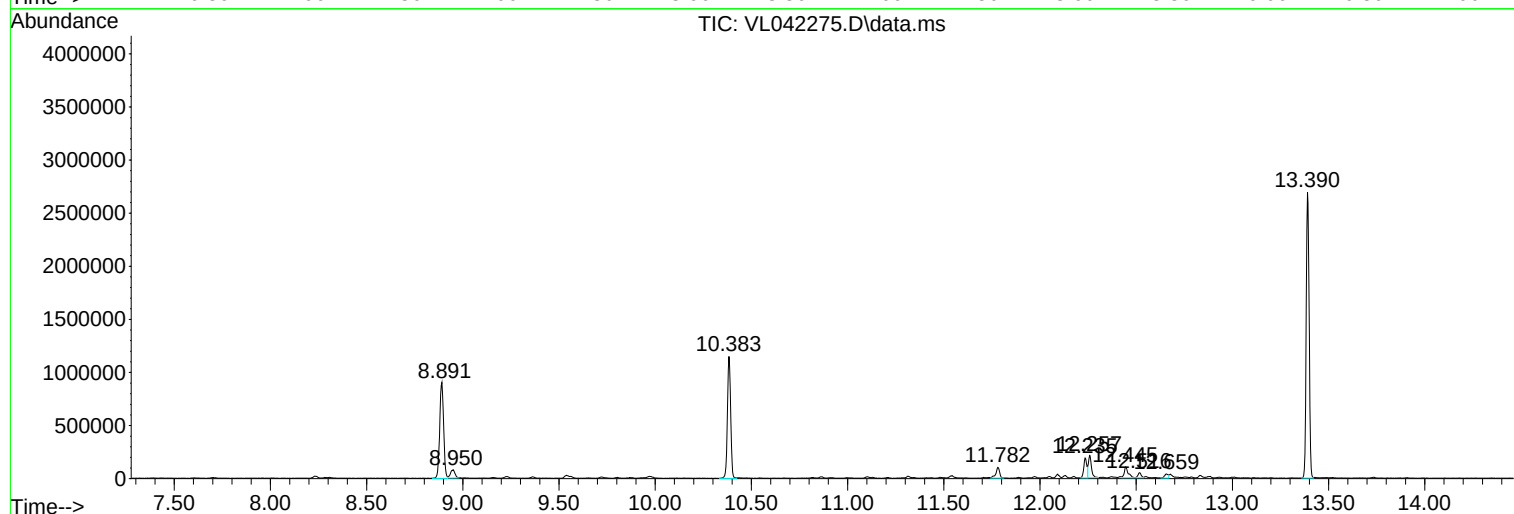
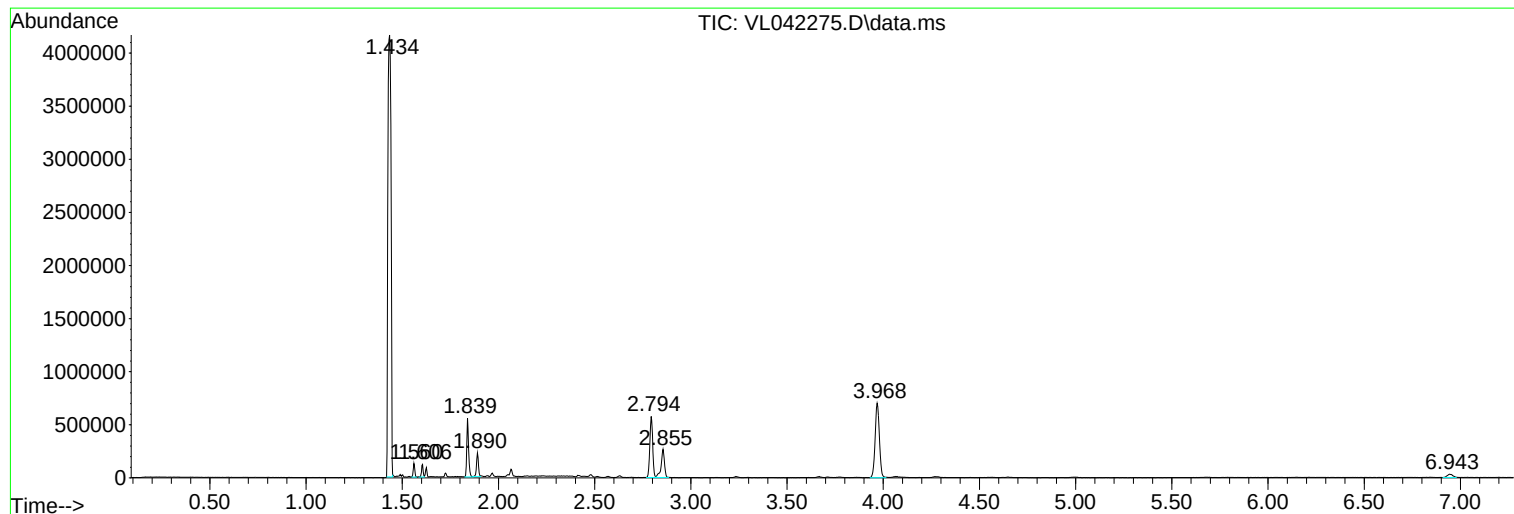
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Data File : VL042275.D
Acq On : 08 Apr 2025 22:42
Operator : SY/MD
Sample : Q1728-12 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-3-04012025

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\VL040825\
Data File : VL042275.D
Acq On : 08 Apr 2025 22:42
Operator : SY/MD
Sample : Q1728-12 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-3-04012025

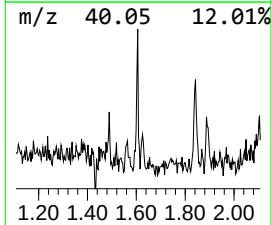
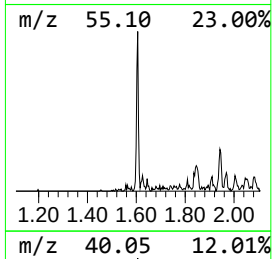
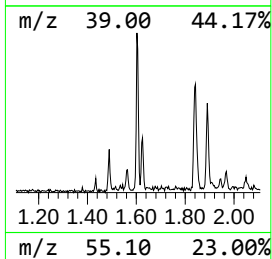
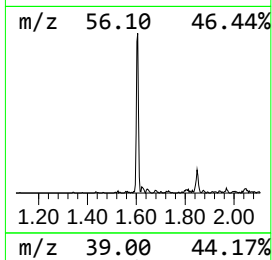
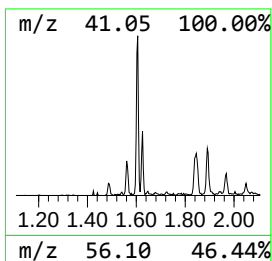
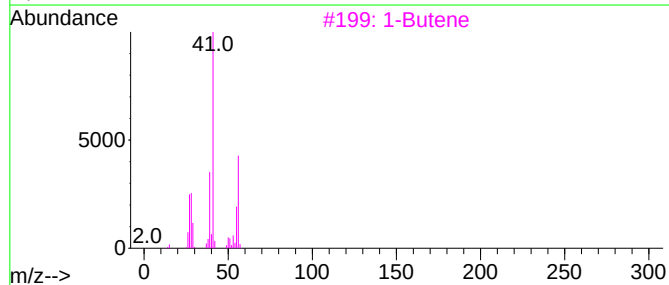
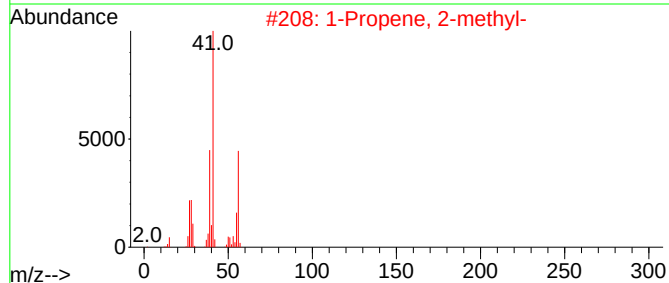
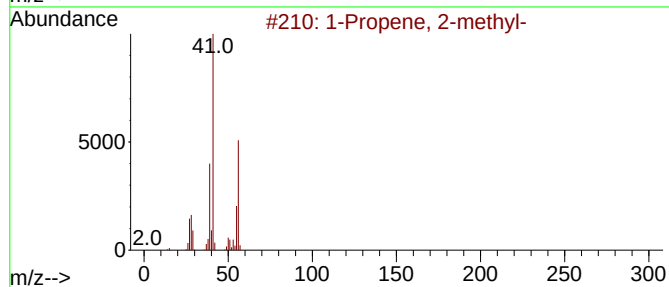
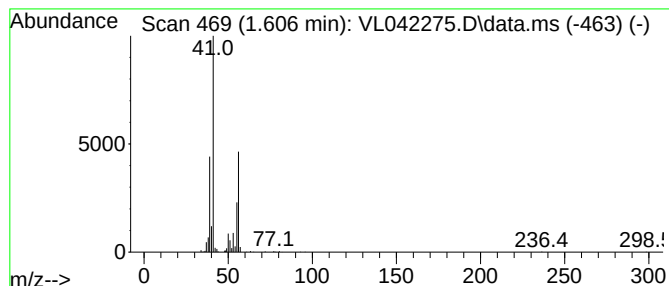
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 1 1-Propene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.606	1.15 ppbv	68942	Bromochloromethane	2.794

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	87	
3	1-Butene	56	C4H8	000106-98-9	86	
4	1-Butene	56	C4H8	000106-98-9	86	
5	1-Butene	56	C4H8	000106-98-9	86	



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042275.D
Acq On : 08 Apr 2025 22:42
Operator : SY/MD
Sample : Q1728-12 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-3-04012025

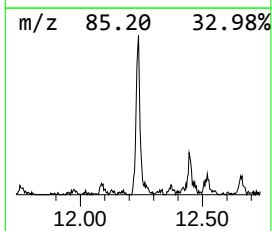
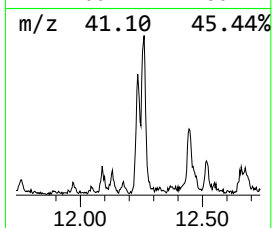
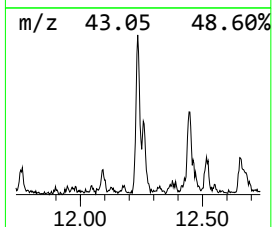
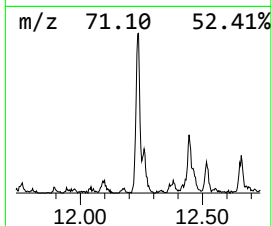
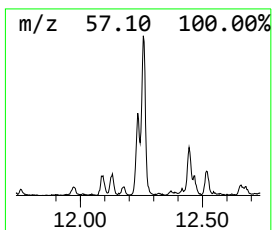
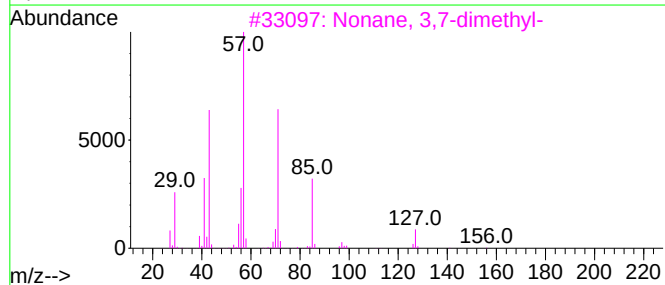
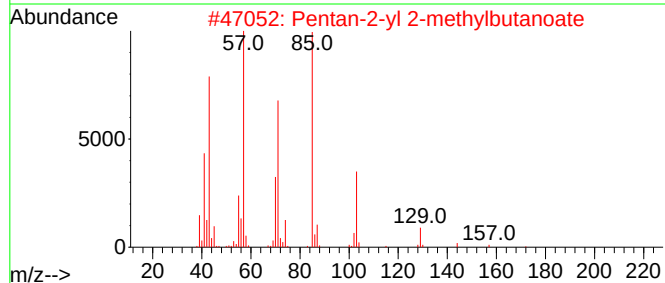
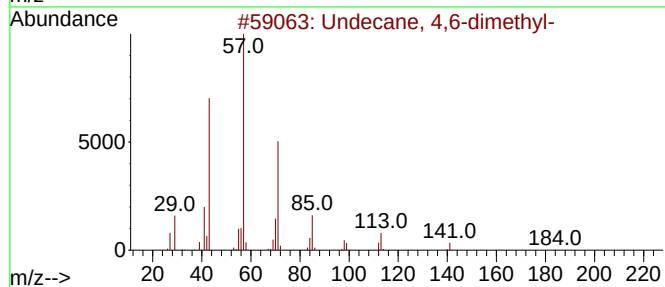
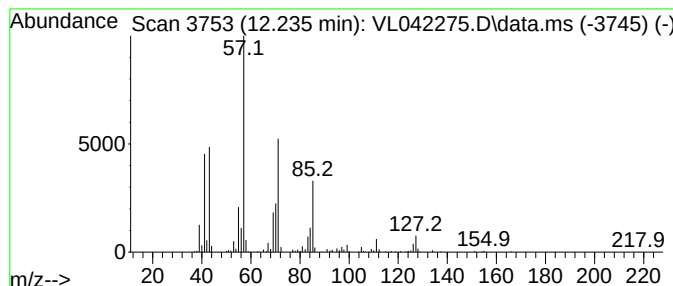
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 3 Undecane, 4,6-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.235	1.70 ppbv	215373	Chlorobenzene-d5	8.891

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Undecane, 4,6-dimethyl-	184	C13H28	017312-82-2	59
2			Pentan-2-yl 2-methylbutanoate	172	C10H20O2	1000372-71-7	50
3			Nonane, 3,7-dimethyl-	156	C11H24	017302-32-8	50
4			Oxalic acid, 2-ethylhexyl hexyl ...	286	C16H30O4	1000309-38-9	50
5			Sulfurous acid, 2-ethylhexyl hex...	278	C14H30O3S	1000309-20-2	50



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042275.D
Acq On : 08 Apr 2025 22:42
Operator : SY/MD
Sample : Q1728-12 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-3-04012025

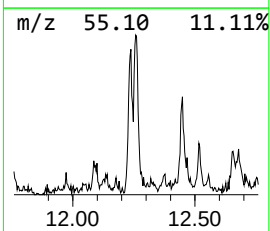
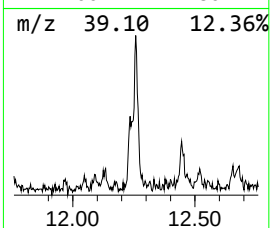
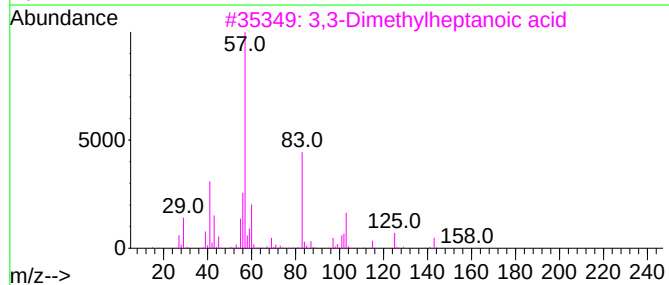
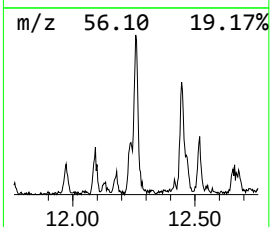
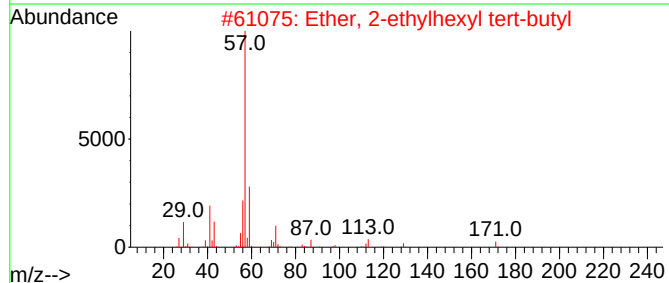
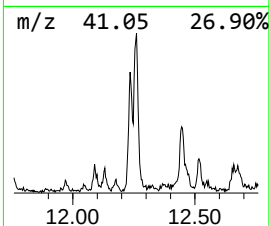
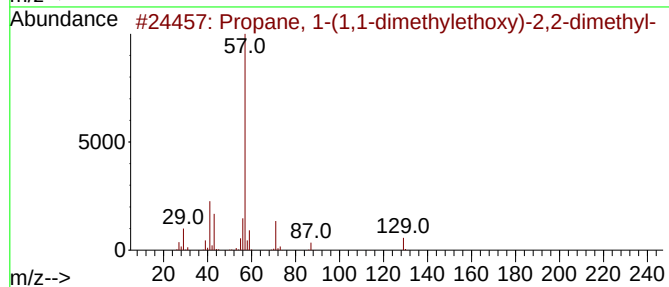
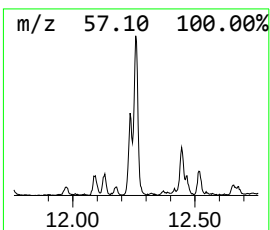
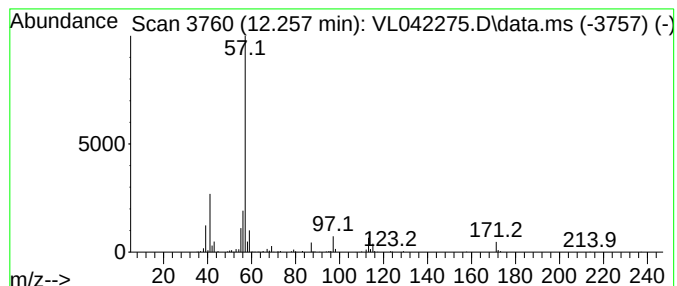
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 4 Propane, 1-(1,1-dimethyleth... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.258	1.78 ppbv	225659	Chlorobenzene-d5	8.891

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Propane, 1-(1,1-dimethylethoxy)-...	144	C9H20O	032970-46-0	50
2			Ether, 2-ethylhexyl tert-butyl	186	C12H26O	083704-03-4	40
3			3,3-Dimethylheptanoic acid	158	C9H18O2	067061-30-7	39
4			Pentanoic acid, 2-methyl-3-oxo-,...	144	C7H12O3	017422-12-7	38
5			Propanoic acid, 2,2-dimethyl-, s...	208	C5H9AgO2	007324-58-5	32



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042275.D
Acq On : 08 Apr 2025 22:42
Operator : SY/MD
Sample : Q1728-12 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-3-04012025

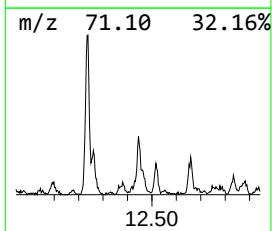
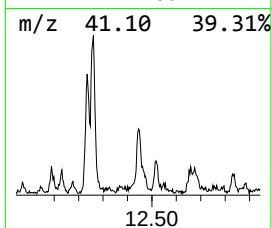
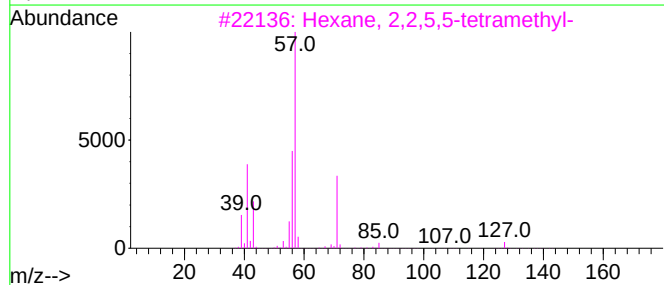
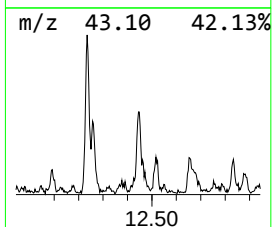
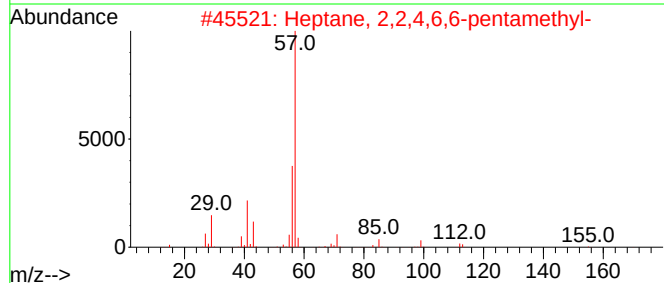
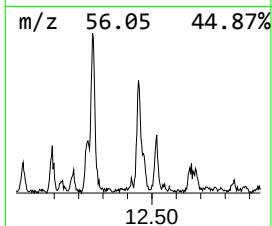
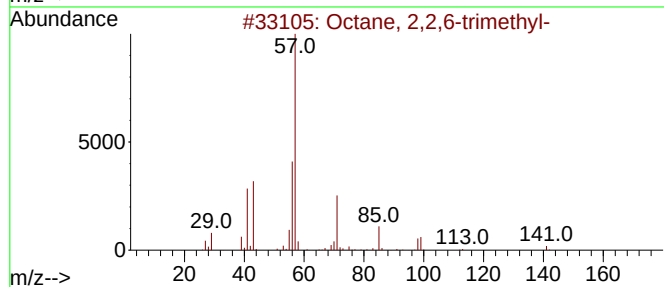
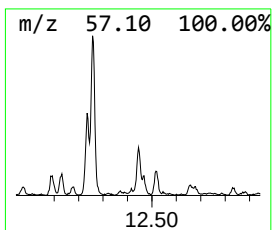
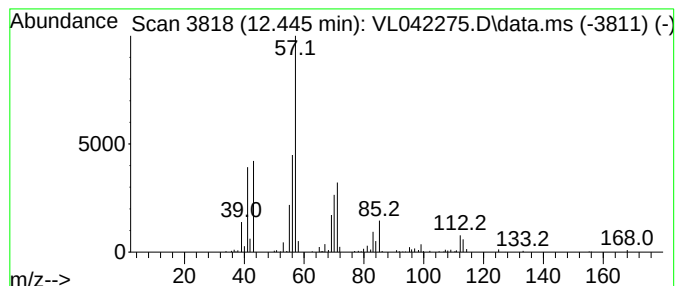
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 5 Octane, 2,2,6-trimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.445	1.15 ppbv	146106	Chlorobenzene-d5	8.891

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Octane, 2,2,6-trimethyl-	156	C11H24	062016-28-8	53
2			Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	50
3			Hexane, 2,2,5,5-tetramethyl-	142	C10H22	001071-81-4	50
4			Hexane, 1-(hexyloxy)-5-methyl-	200	C13H28O	074421-19-5	49
5			Decane, 2,2,3-trimethyl-	184	C13H28	062338-09-4	47



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042275.D
Acq On : 08 Apr 2025 22:42
Operator : SY/MD
Sample : Q1728-12 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-3-04012025

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
1-Propene, 2-me...	1.606	1.1	ppbv	68942	1	2.794	598255	10.0
Undecane, 4,6-d...	12.235	1.7	ppbv	215373	3	8.891	1266920	10.0
Propane, 1-(1,1...	12.258	1.8	ppbv	225659	3	8.891	1266920	10.0
Octane, 2,2,6-t...	12.445	1.1	ppbv	146106	3	8.891	1266920	10.0



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

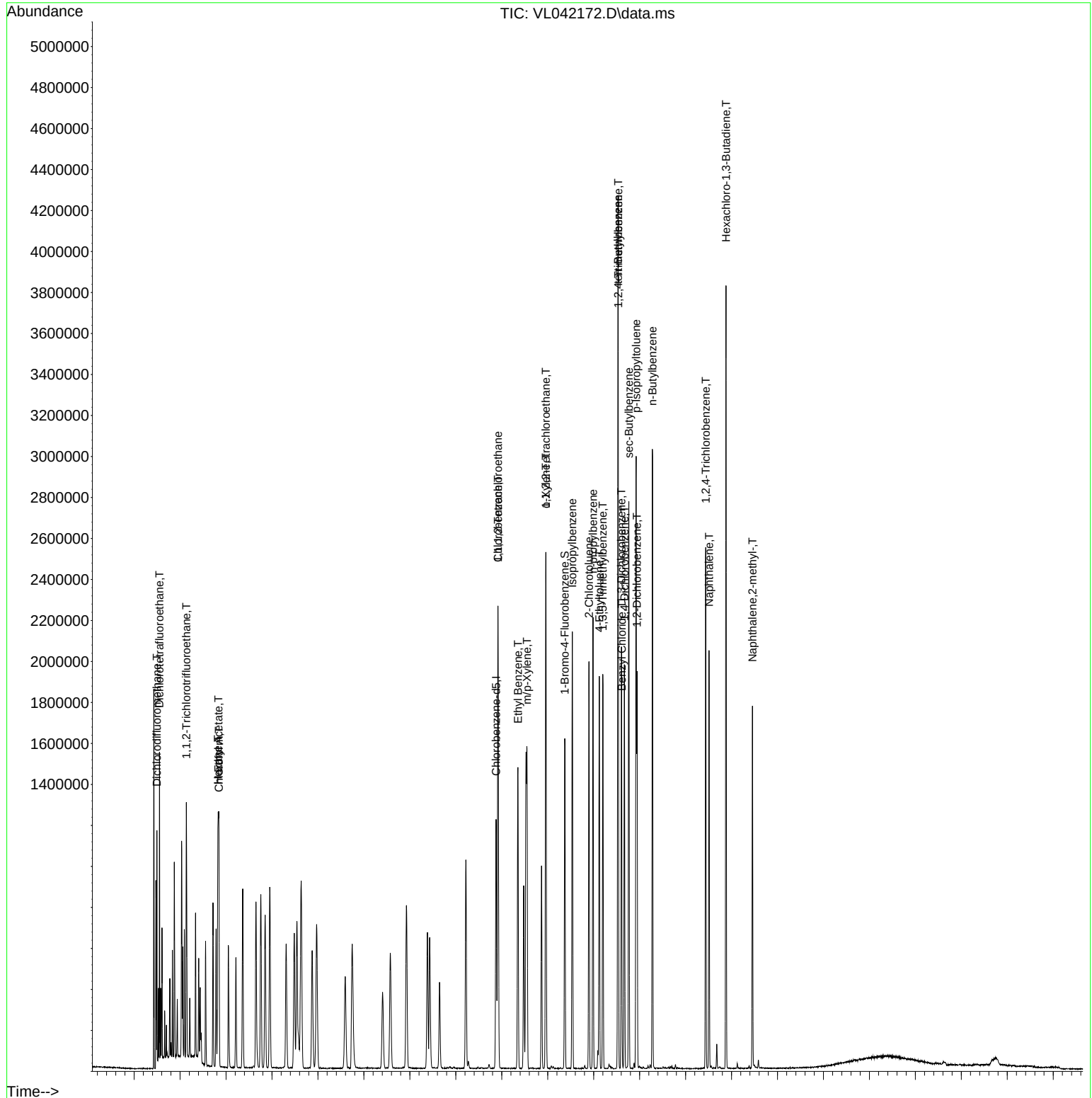
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Data File : VL042172.D
Acq On : 27 Mar 2025 08:26
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

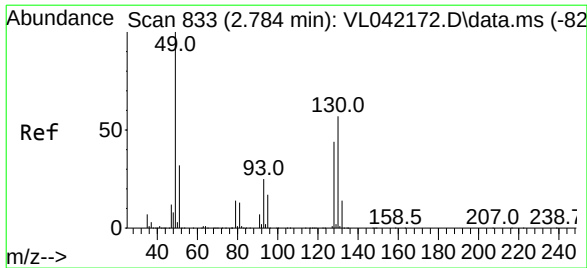
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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

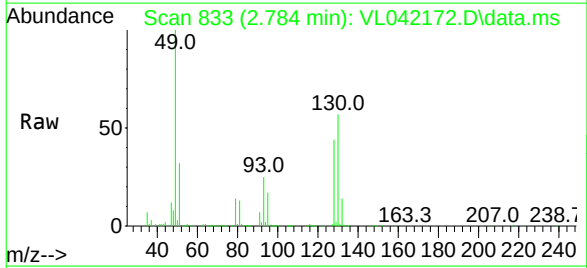
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025





#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

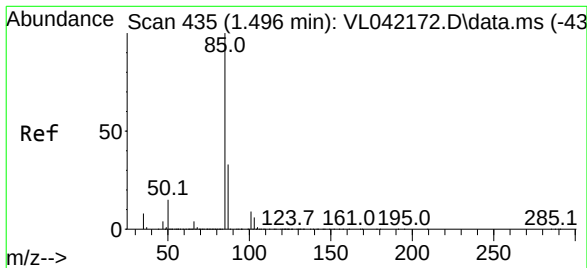
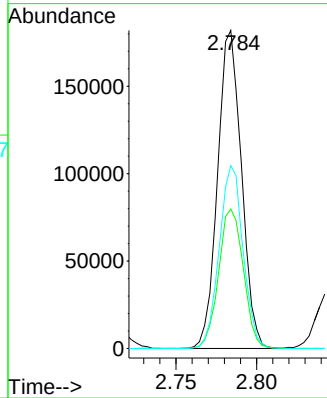
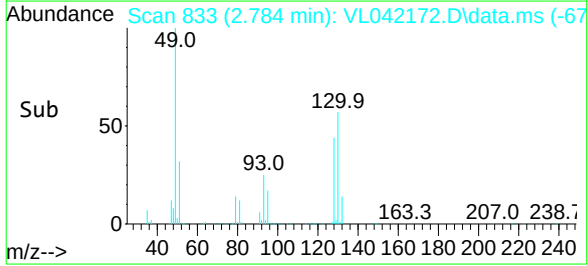
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



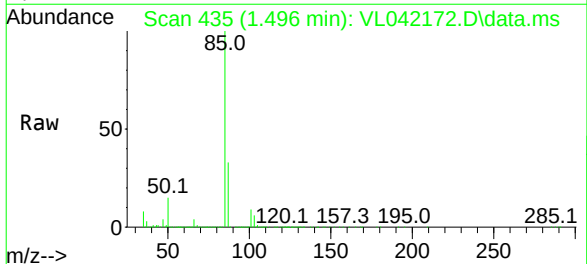
Tgt Ion: 49 Resp: 187002
Ion Ratio Lower Upper
49 100
128 45.7 22.9 68.5
130 57.6 28.8 86.4

Manual Integrations
APPROVED

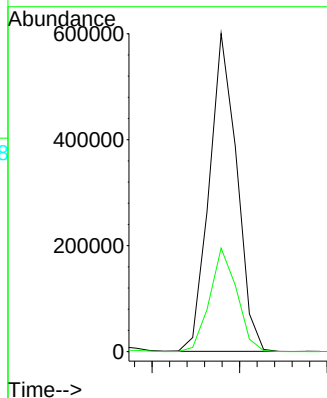
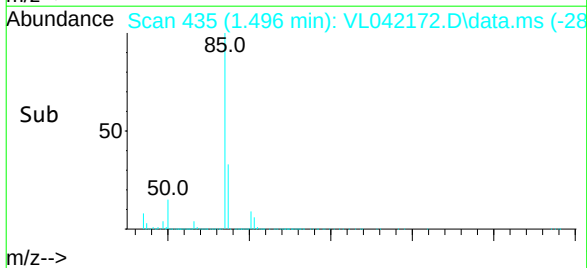
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

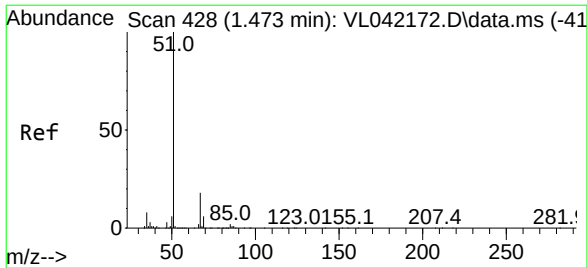


#2
Dichlorodifluoromethane
Concen: 9.507 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26



Tgt Ion: 85 Resp: 262496
Ion Ratio Lower Upper
85 100
87 32.6 26.1 39.1





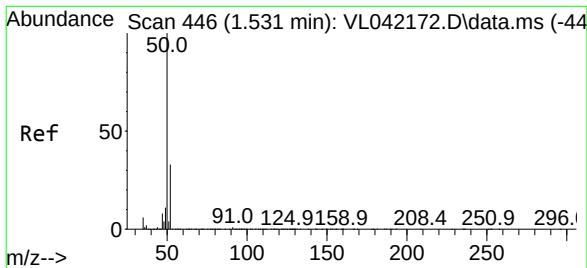
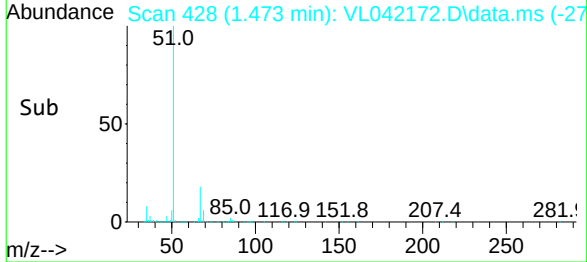
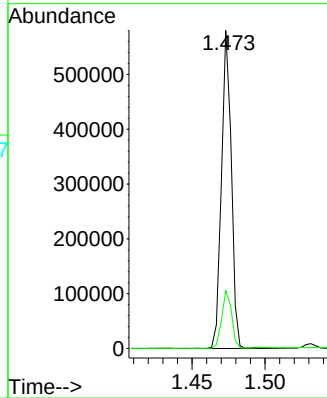
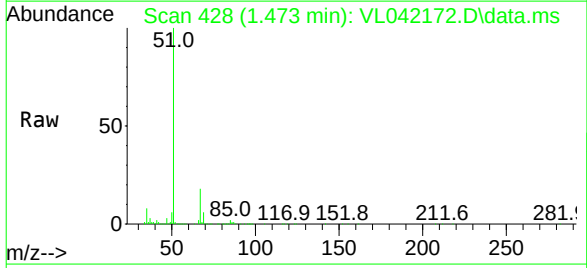
#3
Chlorodifluoromethane
Concen: 9.662 ppbv
RT: 1.473 min Scan# 428
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 51 Resp: 272522
Ion Ratio Lower Upper
51 100
67 18.8 15.0 22.6

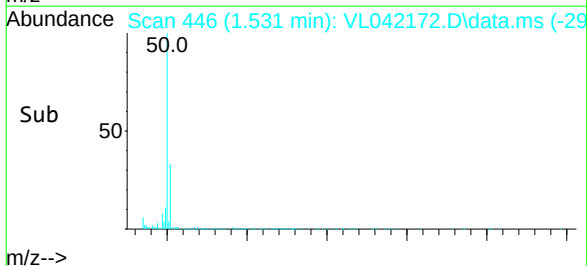
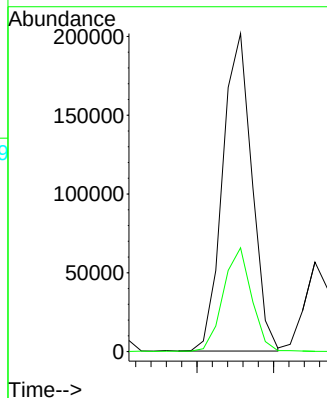
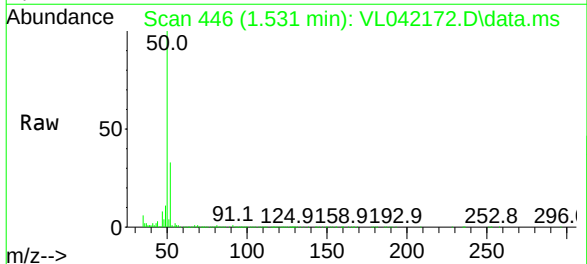
Manual Integrations
APPROVED

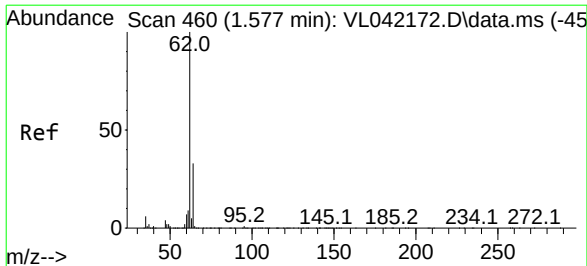
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





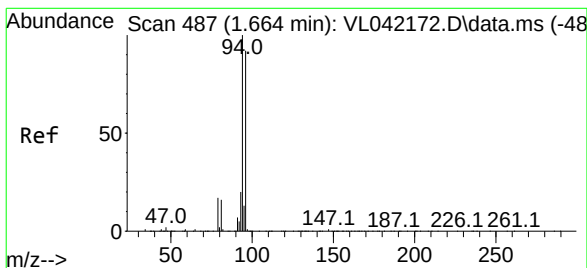
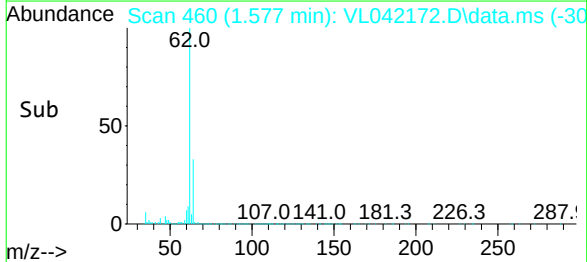
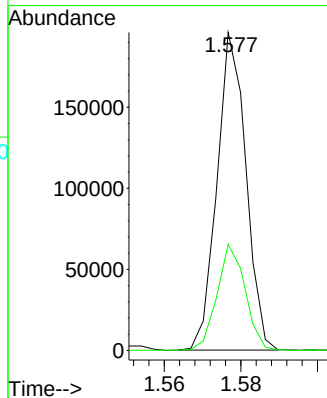
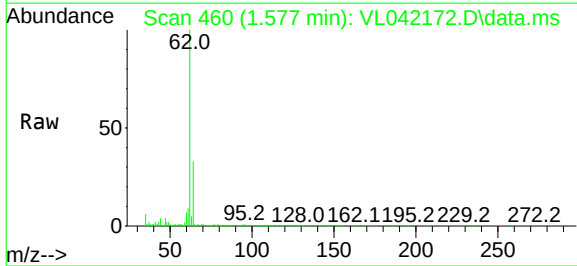
#5
 Vinyl Chloride
 Concen: 8.925 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 62 Resp: 102699
 Ion Ratio Lower Upper
 62 100
 64 33.3 26.6 40.0

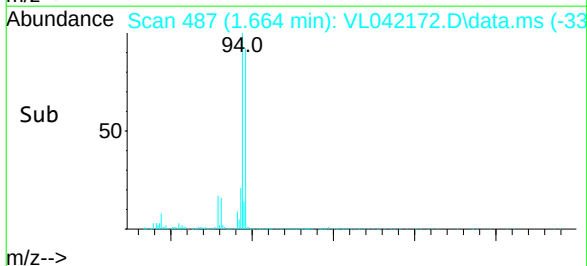
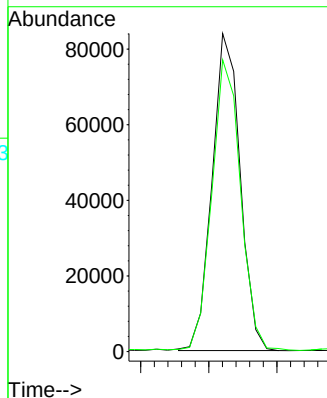
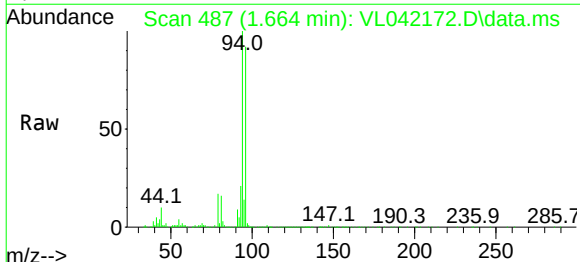
Manual Integrations
 APPROVED

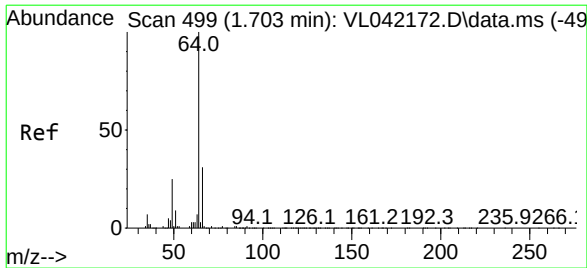
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#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





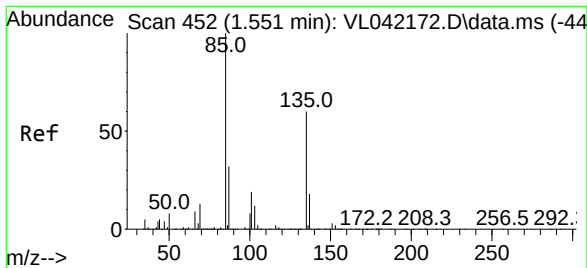
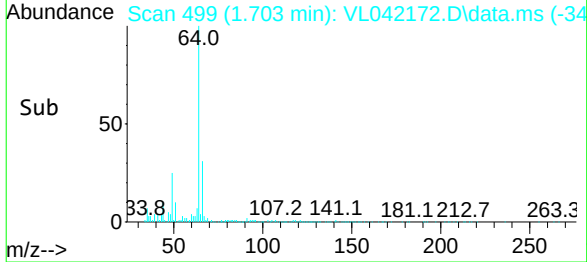
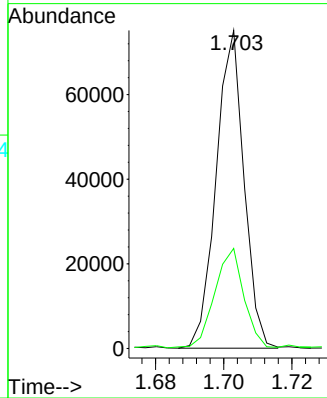
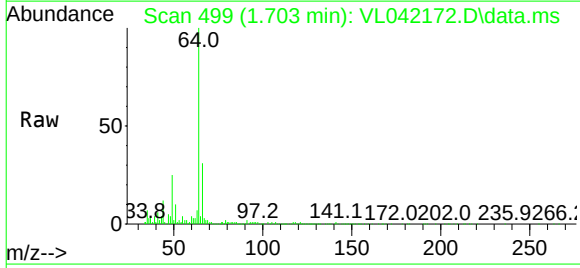
#7
Chloroethane
Concen: 9.387 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 64 Resp: 42516
Ion Ratio Lower Upper
64 100
66 31.5 25.2 37.8

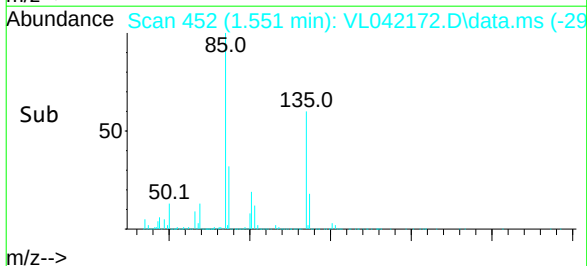
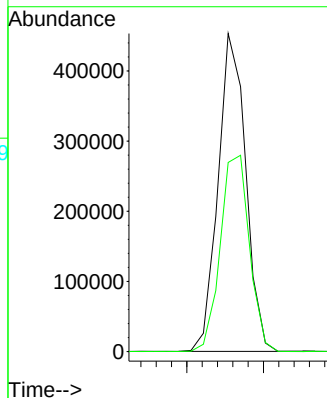
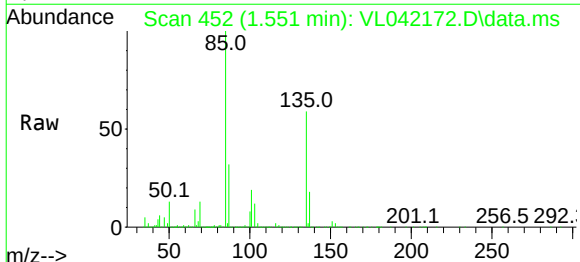
Manual Integrations
APPROVED

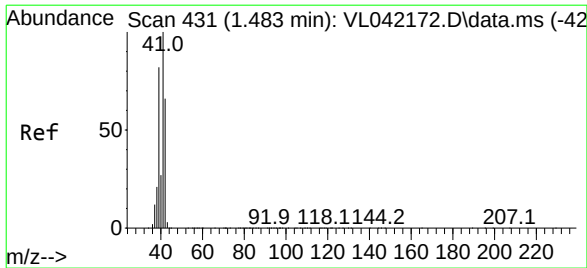
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

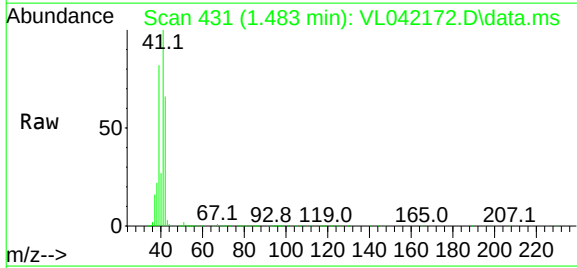
Tgt Ion: 85 Resp: 227041
Ion Ratio Lower Upper
85 100
135 65.5 52.4 78.6





#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

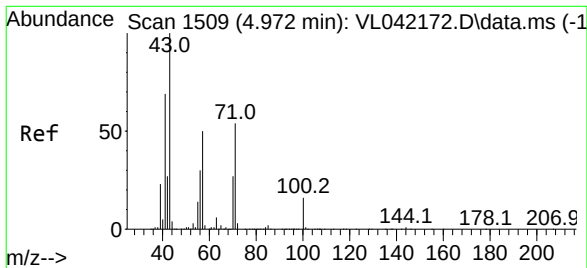
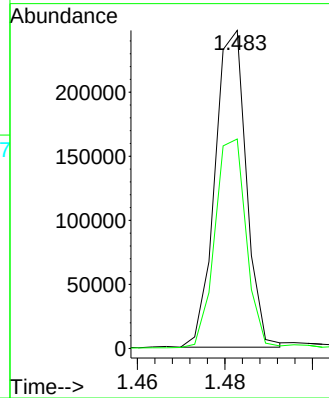
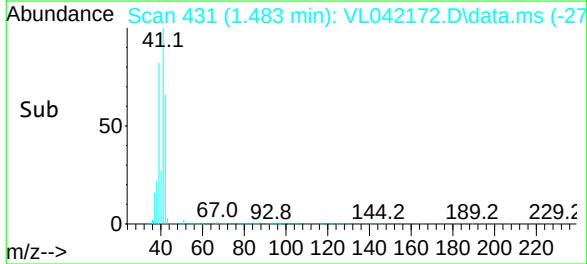
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



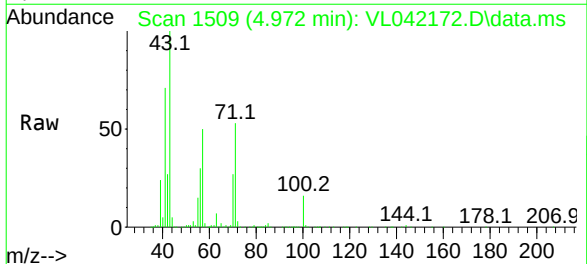
Tgt Ion: 41 Resp: 123386
 Ion Ratio Lower Upper
 41 100
 42 69.3 55.4 83.2

Manual Integrations
 APPROVED

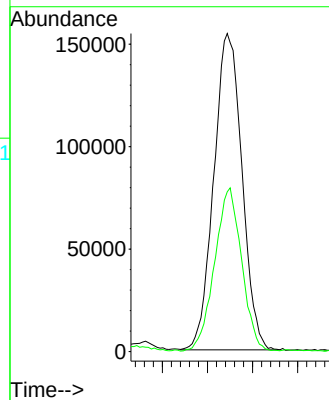
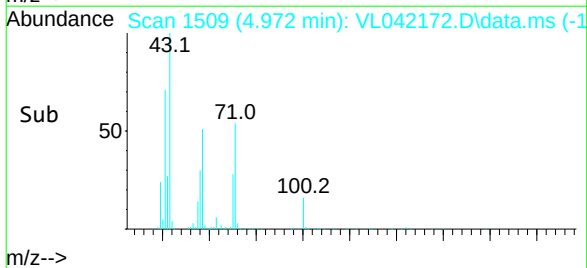
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

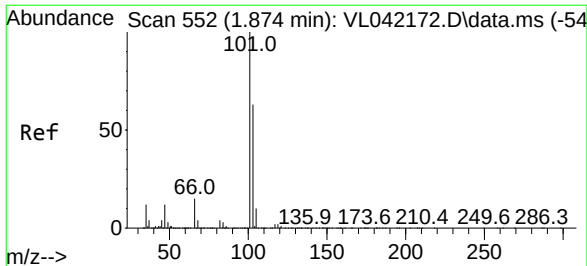


#10
 Heptane
 Concen: 9.744 ppbv
 RT: 4.972 min Scan# 1509
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26



Tgt Ion: 43 Resp: 335086
 Ion Ratio Lower Upper
 43 100
 57 49.3 39.4 59.2





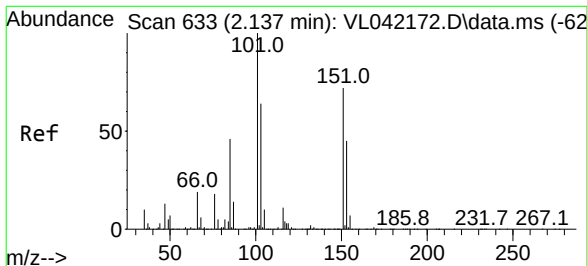
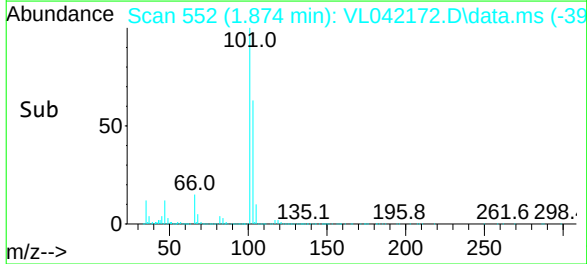
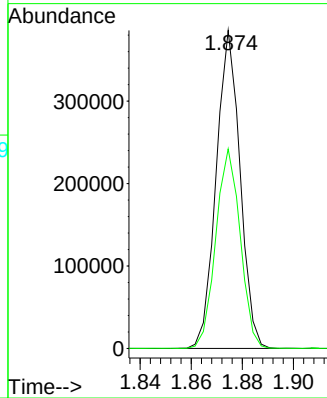
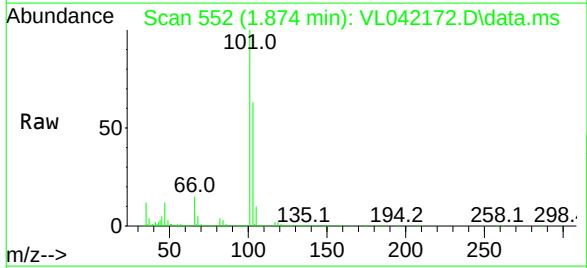
#11
Trichlorofluoromethane
Concen: 9.318 ppbv
RT: 1.874 min Scan# 552
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:101 Resp: 250349
Ion Ratio Lower Upper
101 100
103 62.7 50.2 75.2

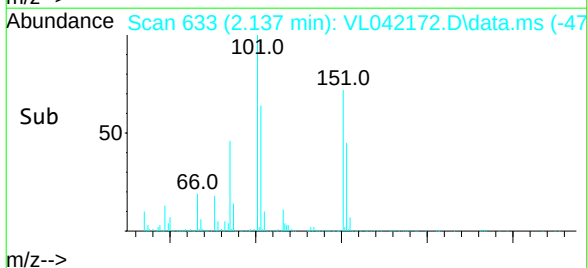
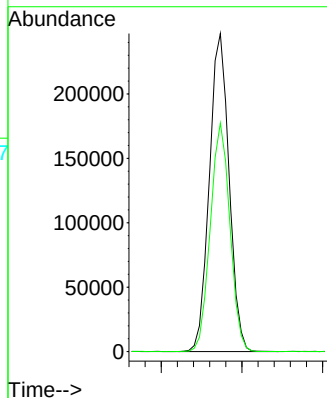
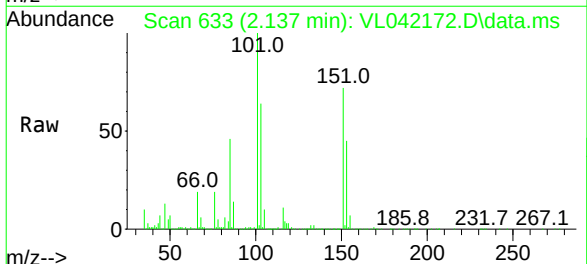
Manual Integrations
APPROVED

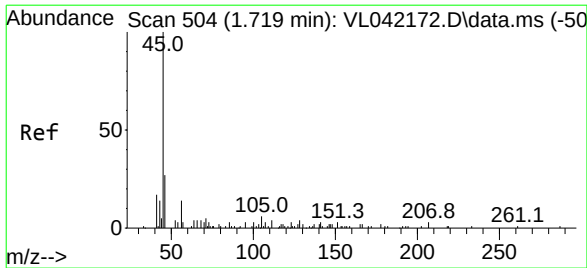
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





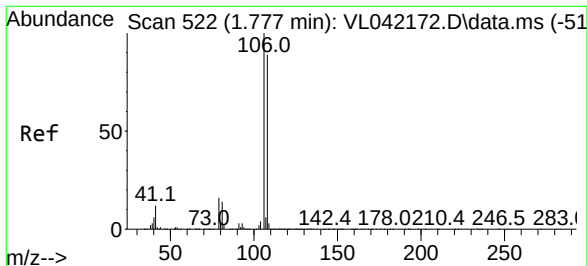
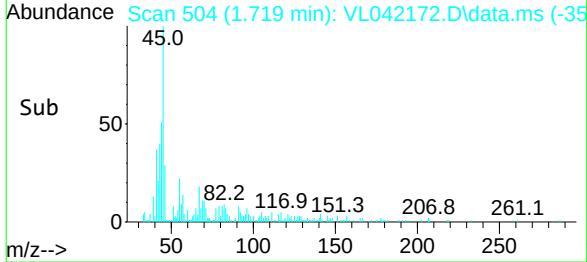
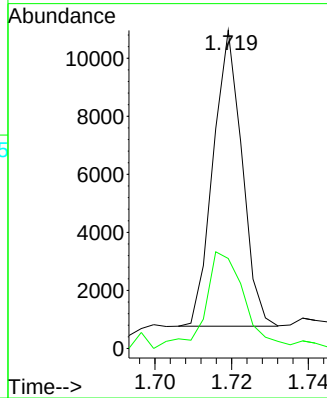
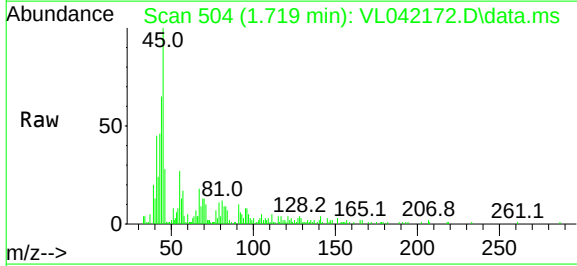
#13
Ethanol
Concen: 5.364 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 5338
Ion Ratio Lower Upper
45 100
46 50.5 20.2 80.8

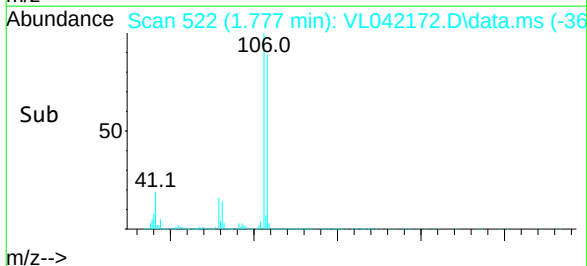
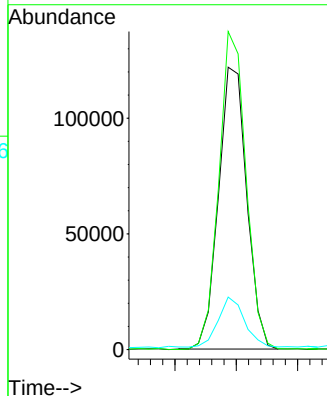
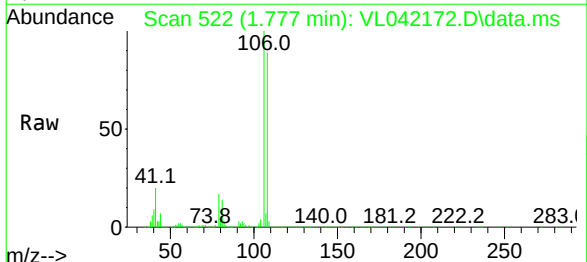
Manual Integrations
APPROVED

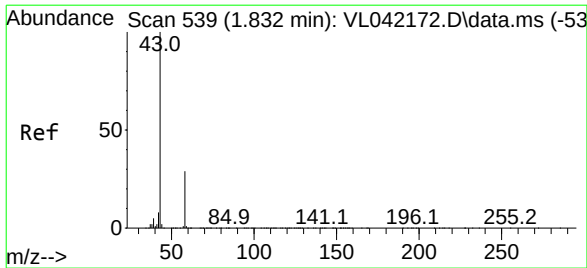
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





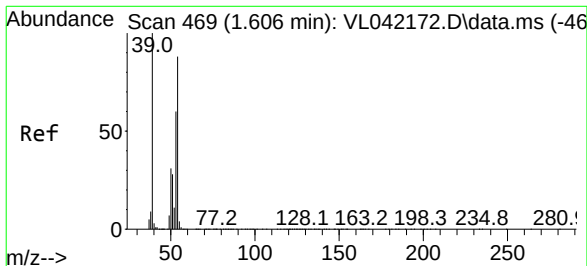
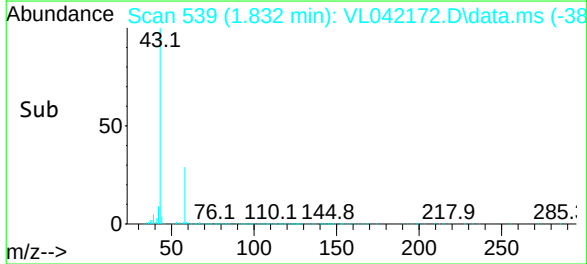
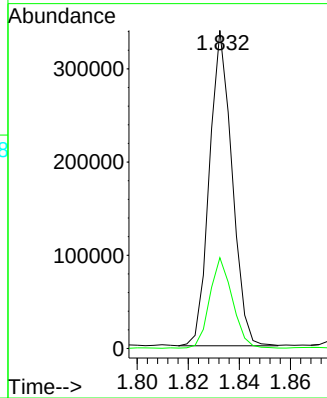
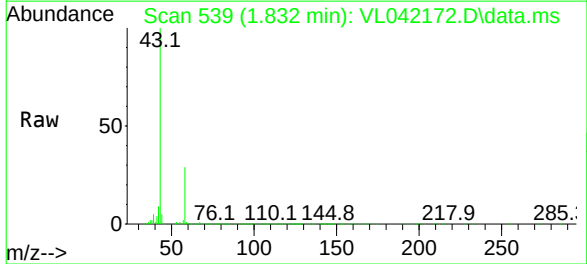
#15
Acetone
Concen: 7.955 ppbv
RT: 1.832 min Scan# 539
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 208061
Ion Ratio Lower Upper
43 100
58 29.0 23.2 34.8

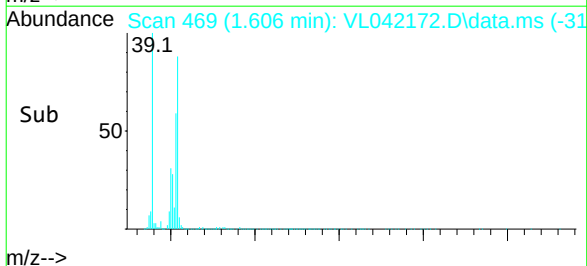
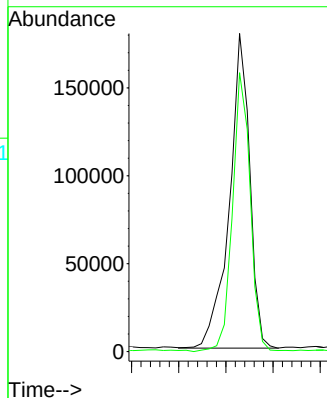
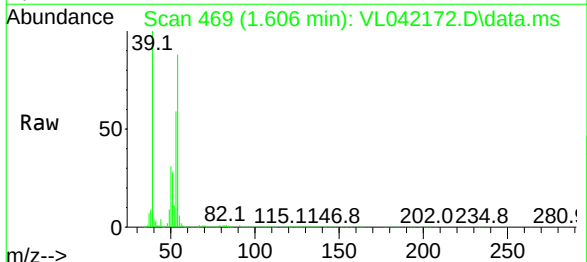
Manual Integrations
APPROVED

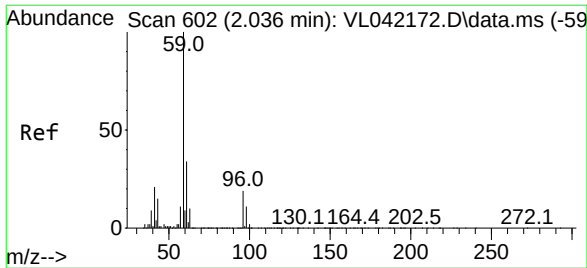
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





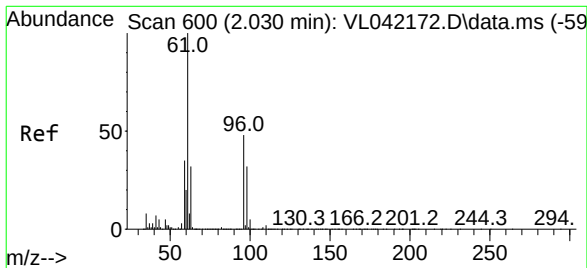
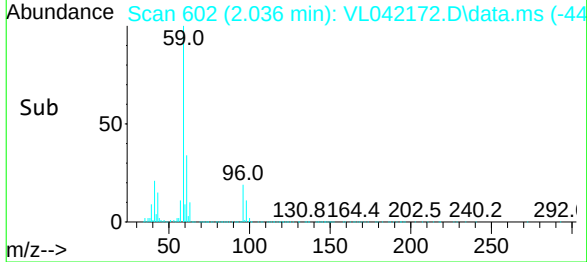
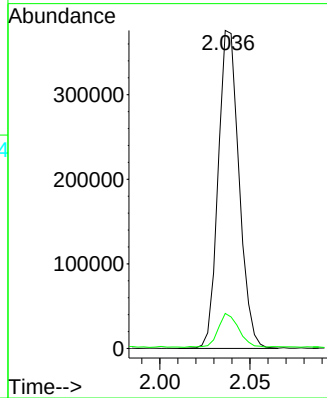
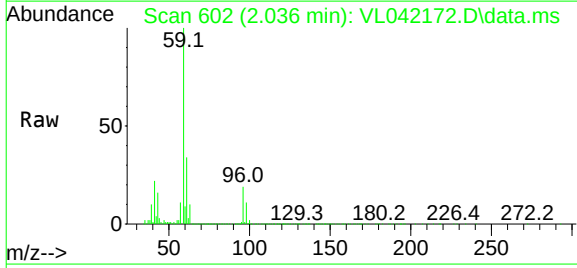
#17
tert-Butyl alcohol
Concen: 9.290 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 59 Resp: 302616
Ion Ratio Lower Upper
59 100
57 11.1 8.9 13.3

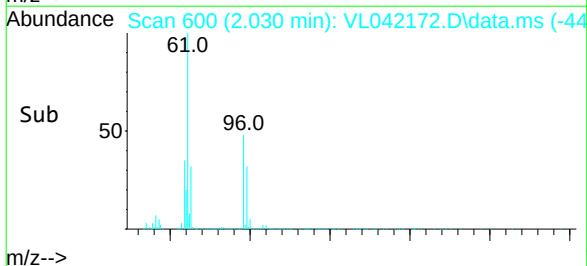
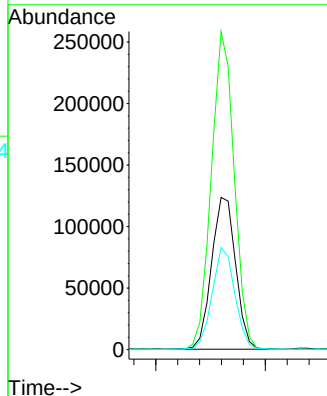
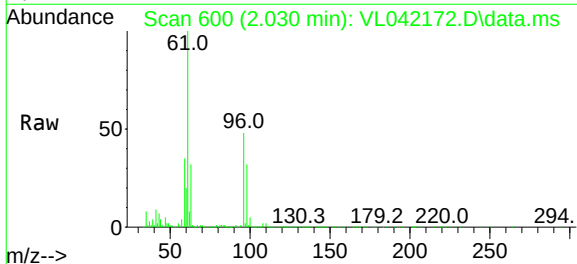
Manual Integrations
APPROVED

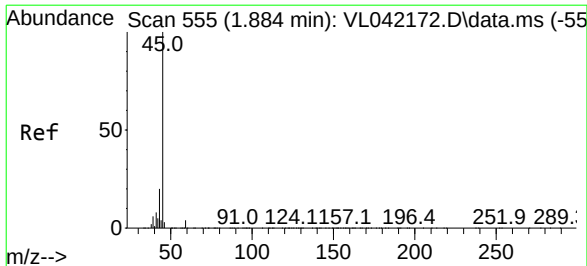
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





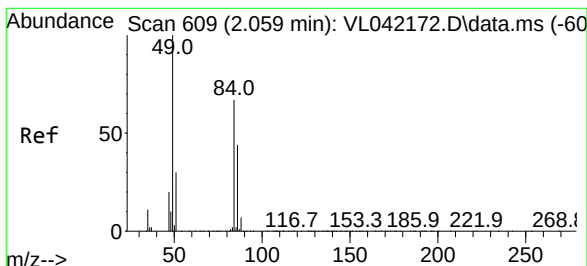
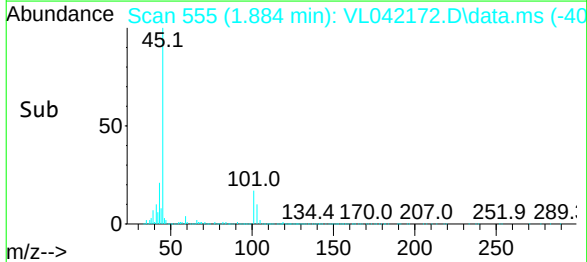
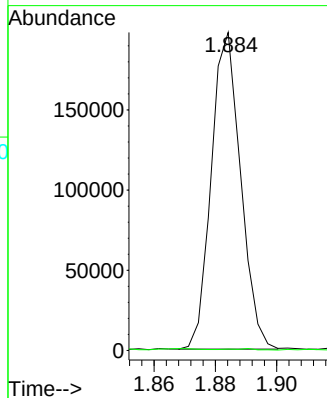
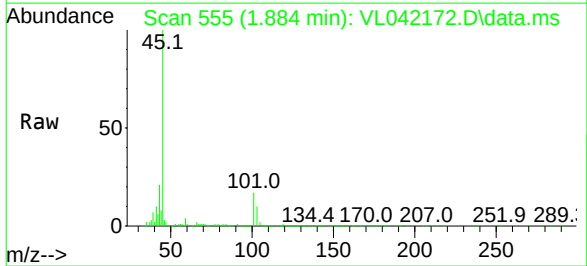
#19
Isopropyl Alcohol
Concen: 8.902 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 131359
Ion Ratio Lower Upper
45 100
58 46.1 36.9 55.3

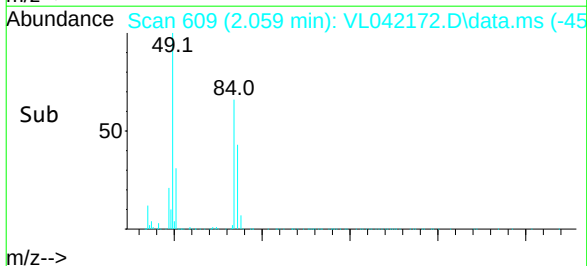
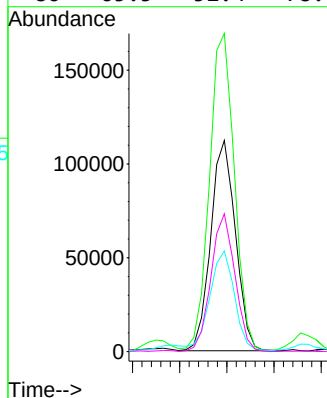
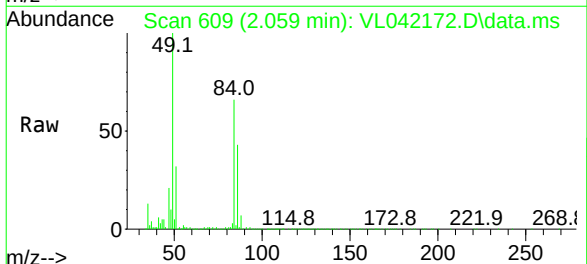
Manual Integrations
APPROVED

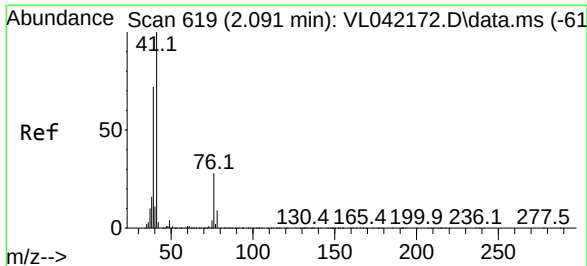
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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 :

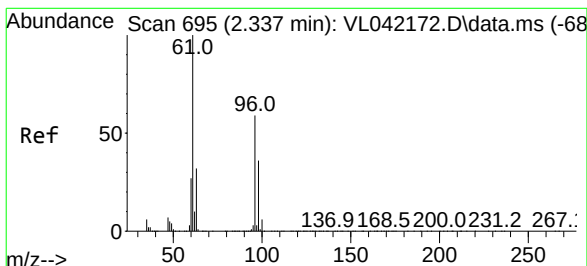
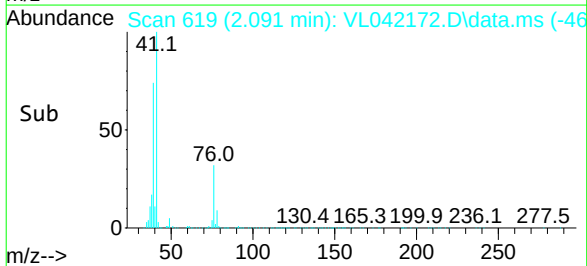
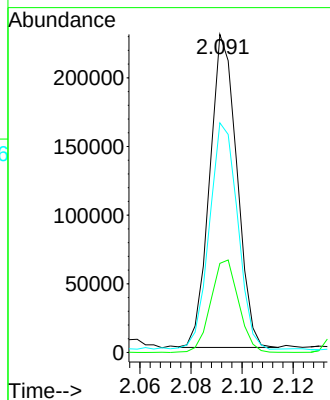
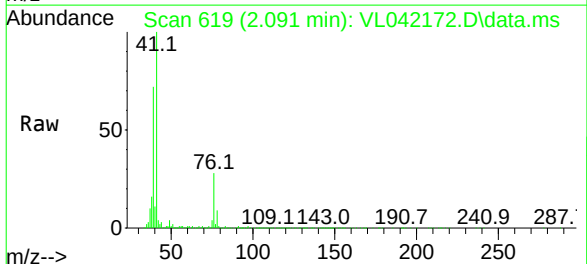
VSTDICCC010

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

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Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#22

trans-1,2-Dichloroethene

Concen: 9.149 ppbv

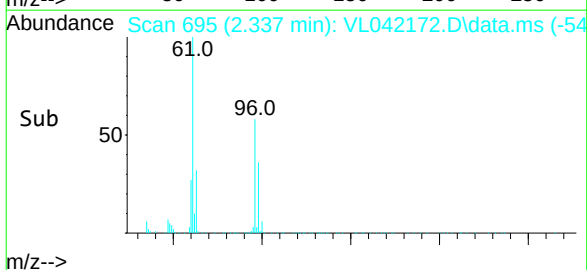
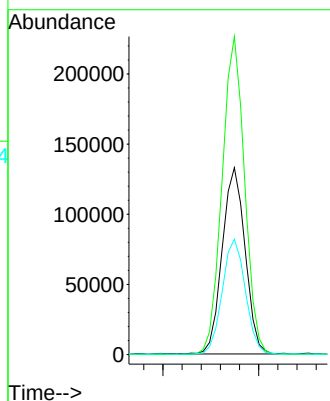
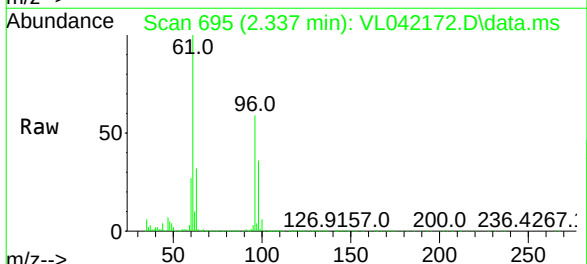
RT: 2.337 min Scan# 695

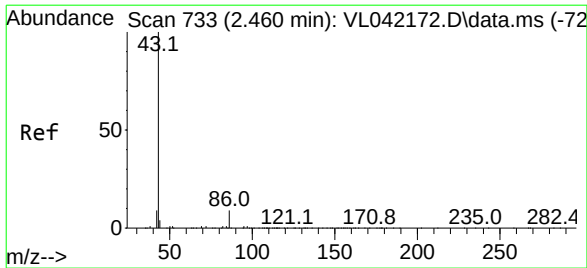
Delta R.T. 0.000 min

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





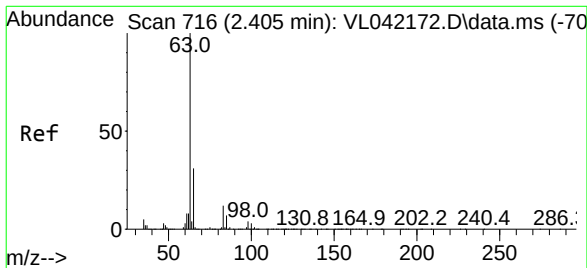
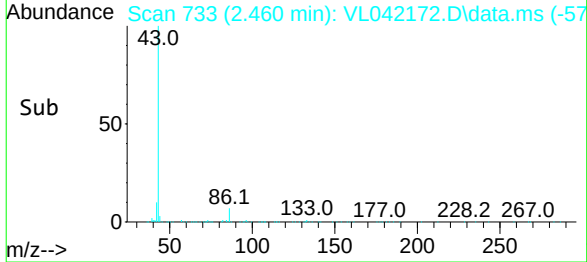
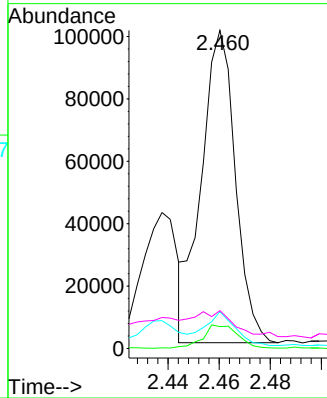
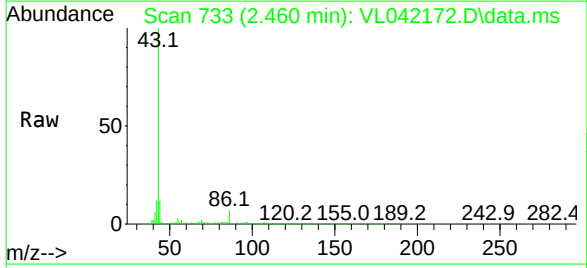
#23
 Vinyl Acetate
 Concen: 8.563 ppbv
 RT: 2.460 min Scan# 733
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

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

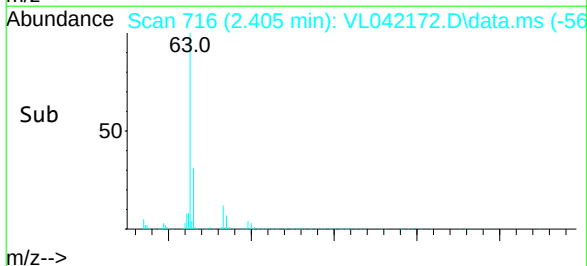
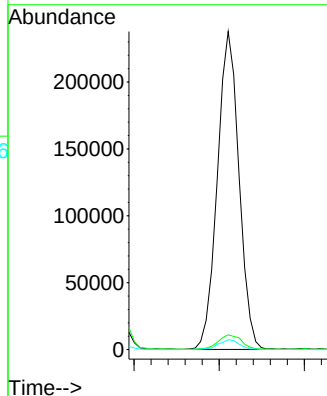
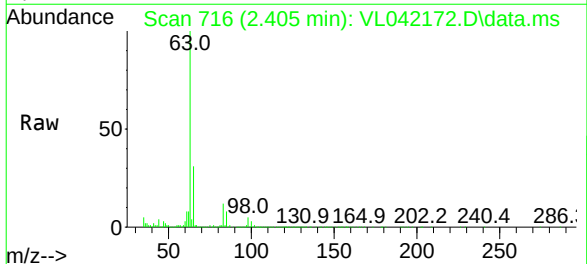
Manual Integrations
 APPROVED

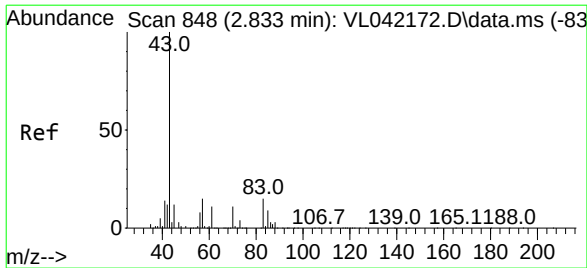
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#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

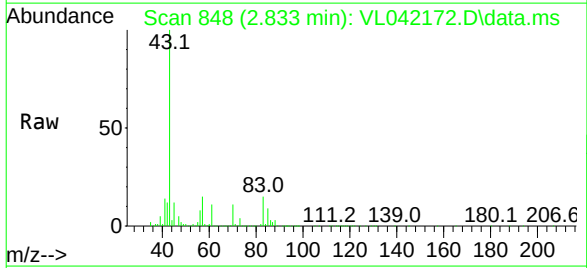
Tgt Ion: 63	Resp: 209753
Ion Ratio	Lower Upper
63 100	
98 4.5	2.3 6.8
100 3.1	1.6 4.7





#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

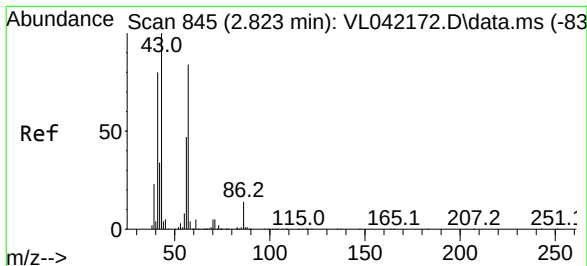
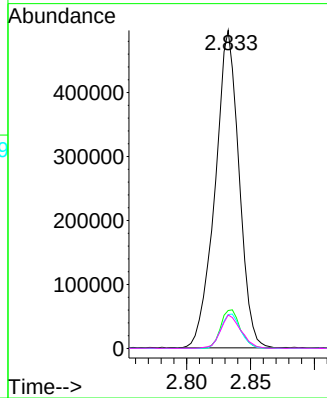
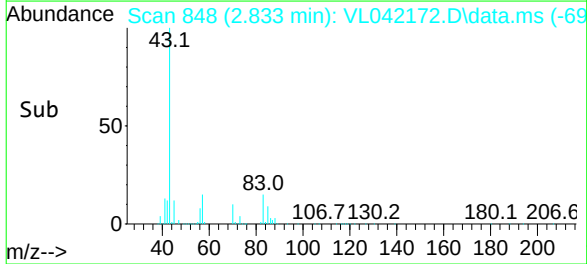
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



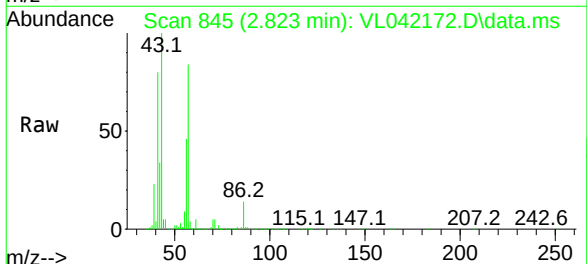
Tgt Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.2	12.2
61	9.1	7.3	10.9
70	9.0	7.2	10.8

Manual Integrations
APPROVED

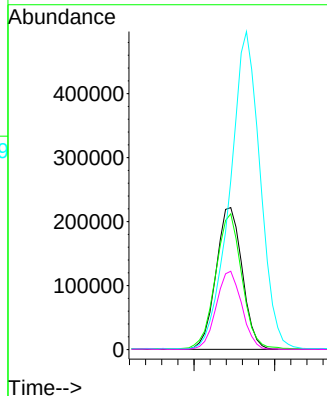
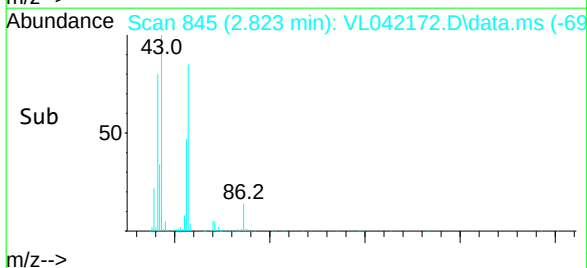
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

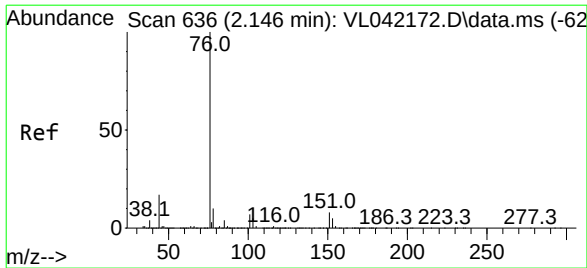


#26
Hexane
Concen: 9.510 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26



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





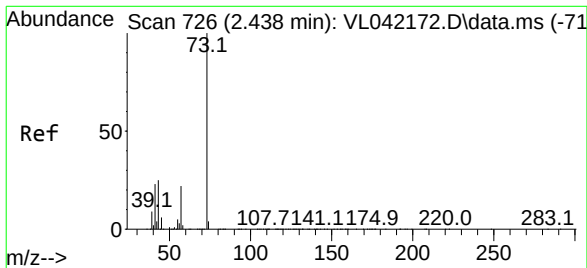
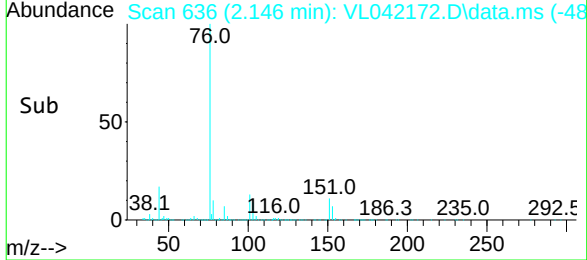
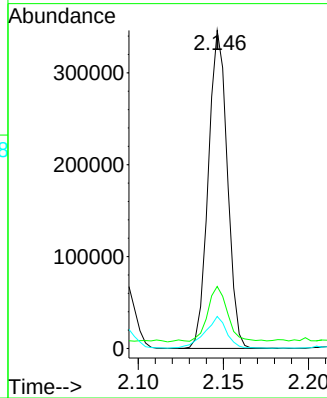
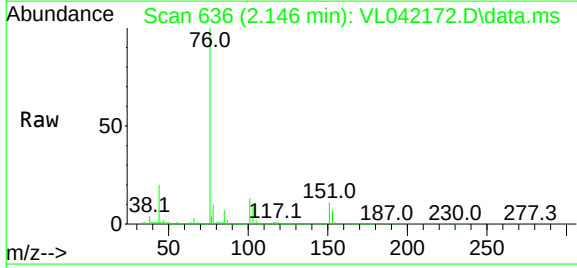
#27
Carbon Disulfide
Concen: 9.550 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

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

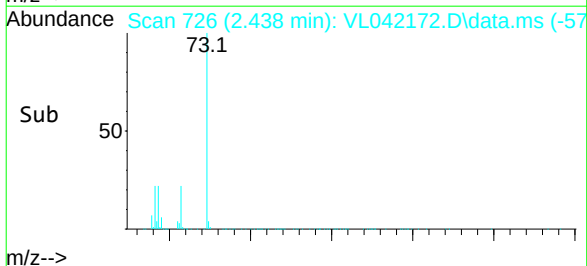
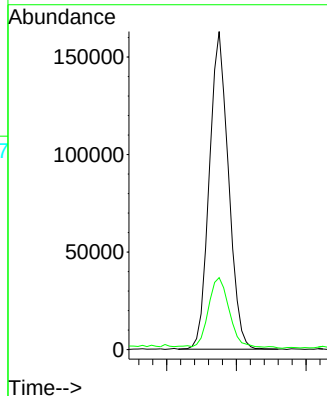
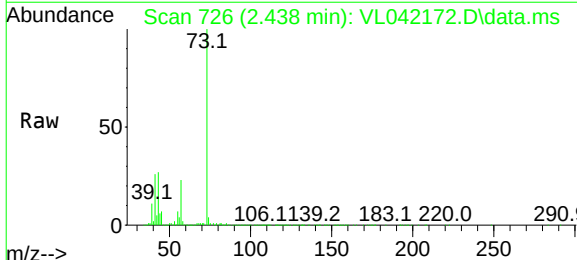
Manual Integrations
APPROVED

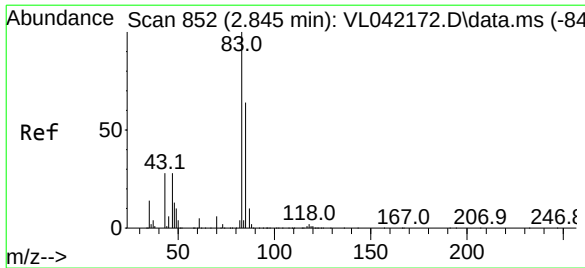
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

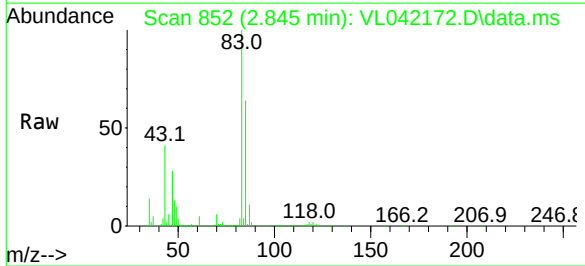
Tgt Ion: 73 Resp: 155398
Ion Ratio Lower Upper
73 100
57 25.6 20.5 30.7





#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

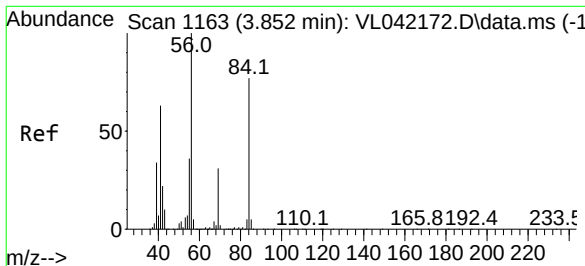
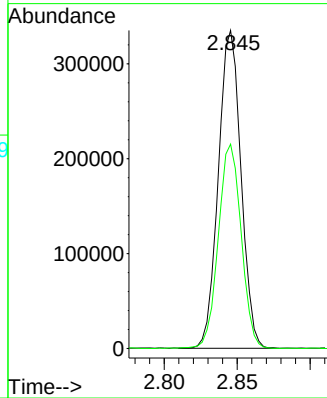
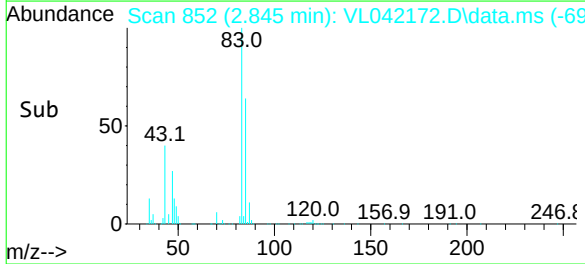
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



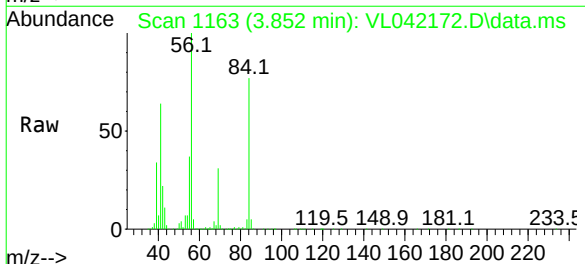
Tgt Ion: 83 Resp: 361264
Ion Ratio Lower Upper
83 100
85 64.3 51.4 77.2

Manual Integrations
APPROVED

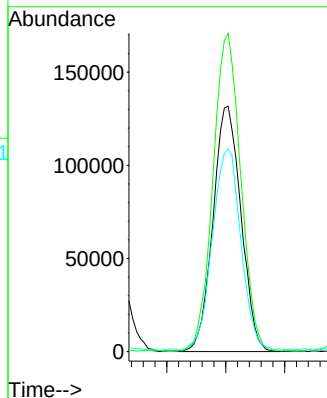
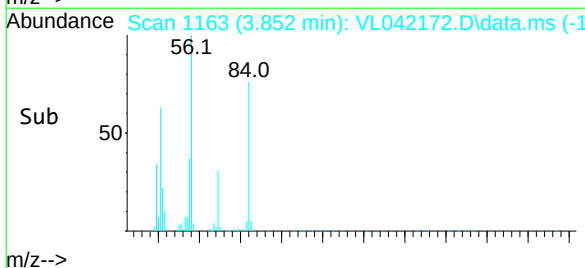
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

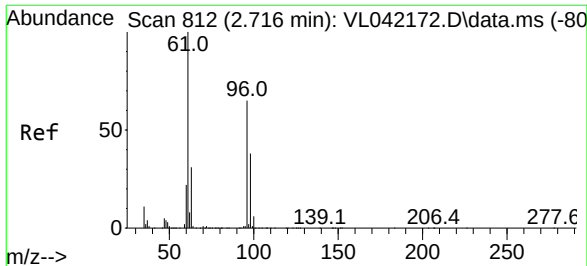


#30
Cyclohexane
Concen: 9.537 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26



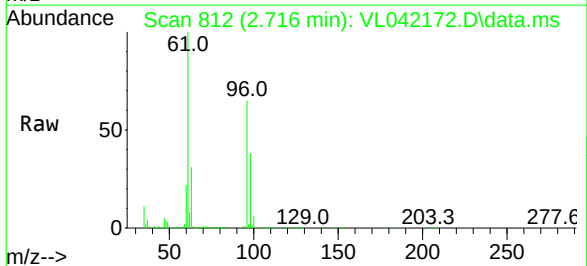
Tgt Ion: 84 Resp: 217215
Ion Ratio Lower Upper
84 100
56 128.5 102.8 154.2
41 83.1 66.5 99.7





#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

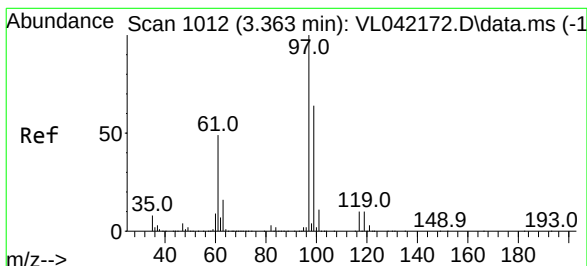
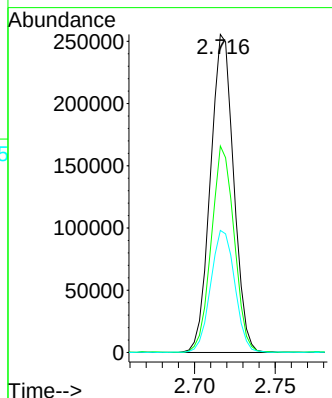
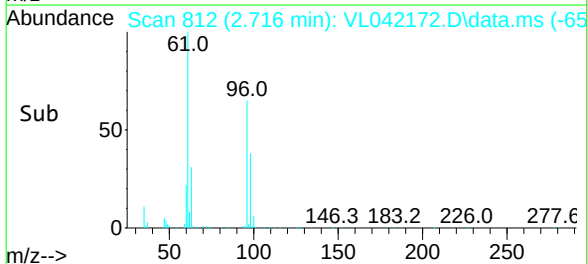
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



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

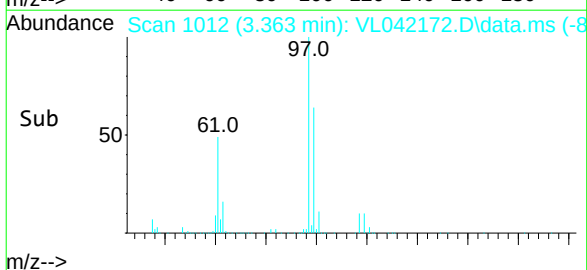
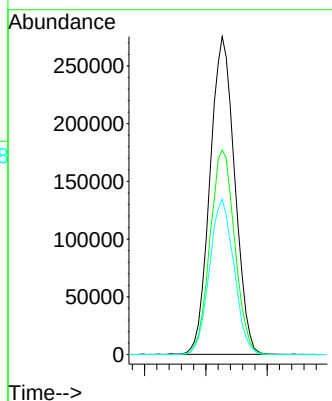
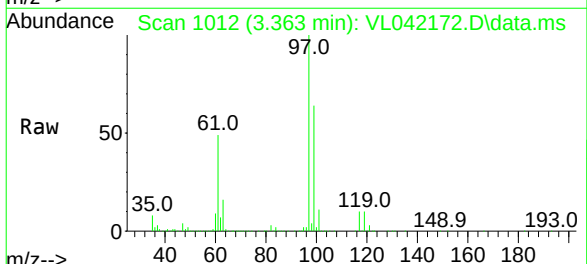
Manual Integrations
 APPROVED

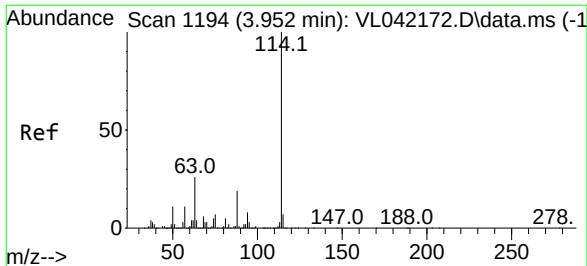
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#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

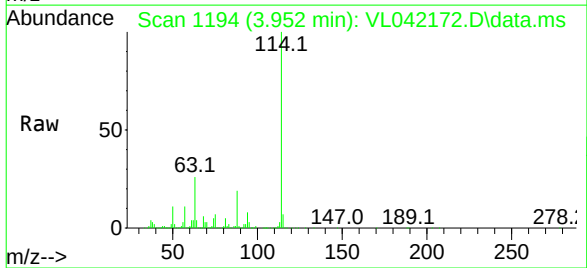
Tgt Ion:	97	Resp:	385628
Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.5	77.3
61	48.4	38.7	58.1





#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

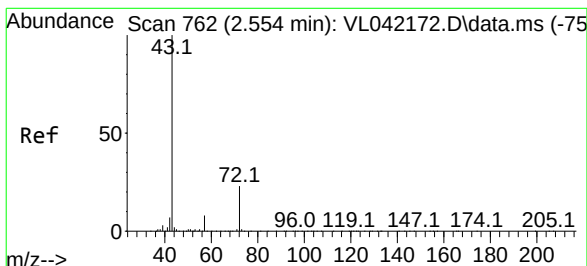
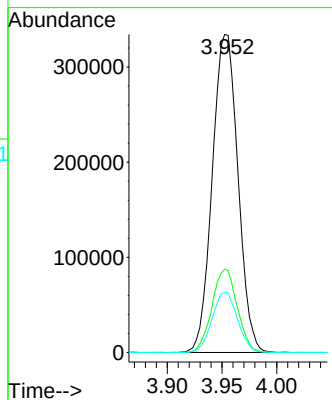
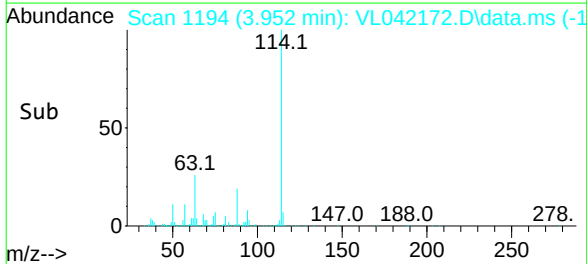
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



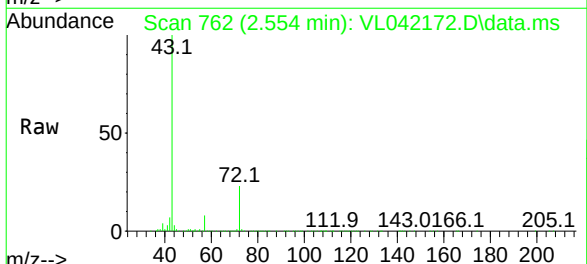
Tgt Ion: 114 Resp: 545068
Ion Ratio Lower Upper
114 100
63 25.9 20.7 31.1
88 18.7 15.0 22.4

Manual Integrations
APPROVED

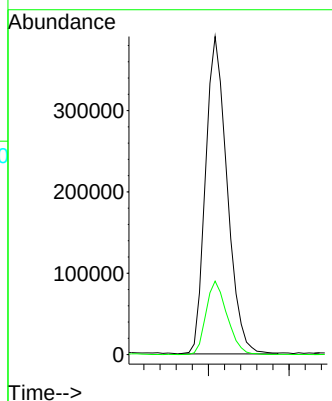
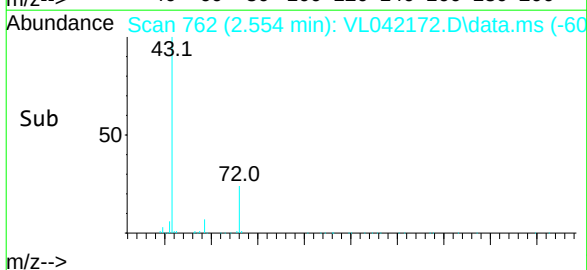
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

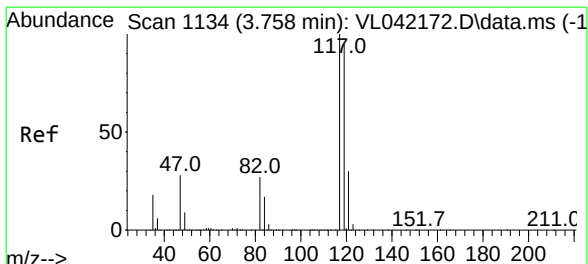


#34
2-Butanone
Concen: 9.203 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26



Tgt Ion: 43 Resp: 363735
Ion Ratio Lower Upper
43 100
72 22.7 18.2 27.2





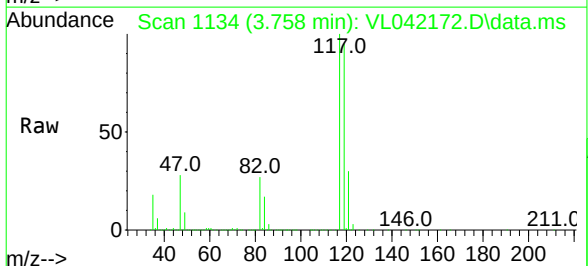
#35
Carbon Tetrachloride
Concen: 9.129 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

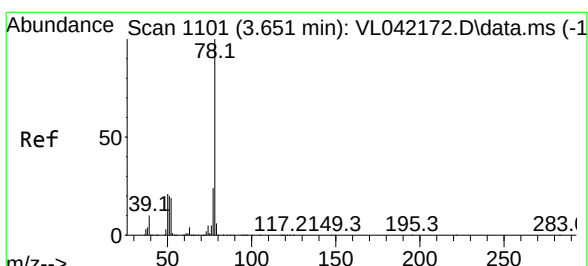
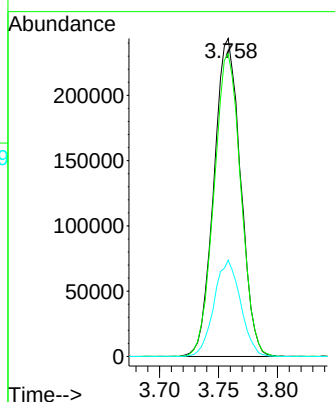
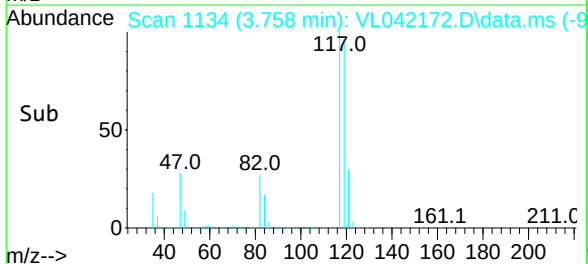


Tgt Ion: 117 Resp: 382925

Ion	Ratio	Lower	Upper
117	100		
119	95.2	76.2	114.2
121	30.3	24.2	36.4

Manual Integrations
APPROVED

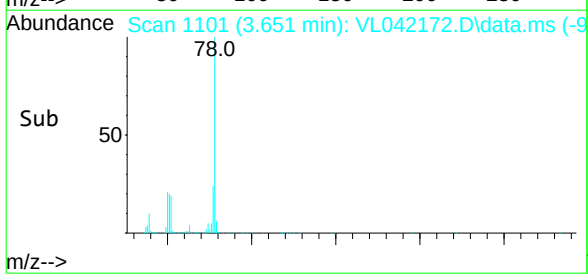
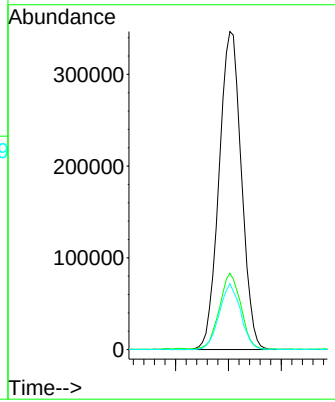
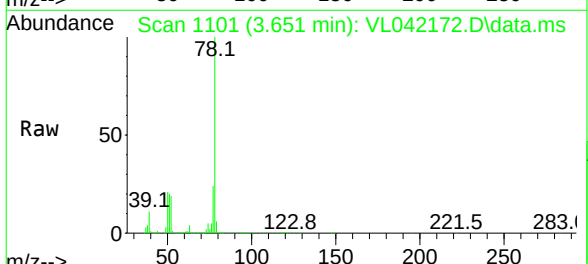
Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025

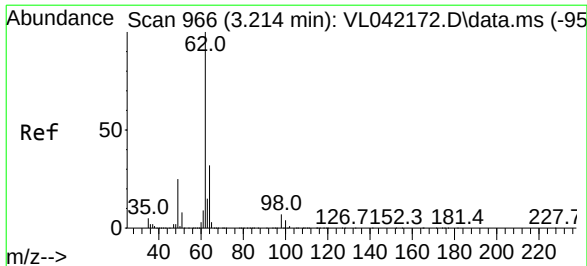


#36
Benzene
Concen: 9.417 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 78 Resp: 508860

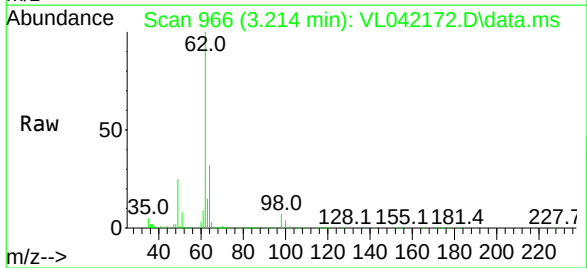
Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.1	28.7
50	20.7	16.6	24.8





#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

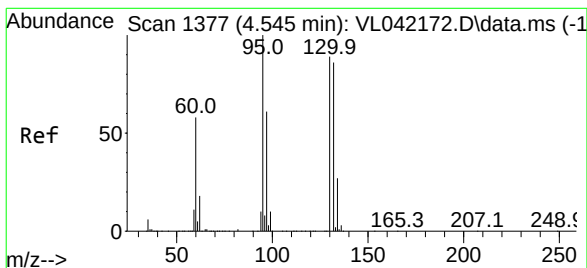
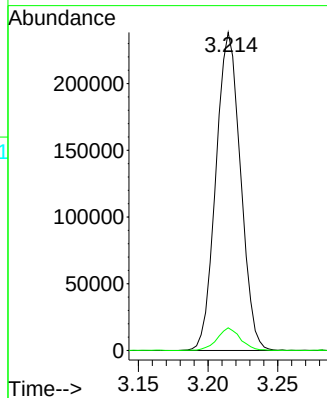
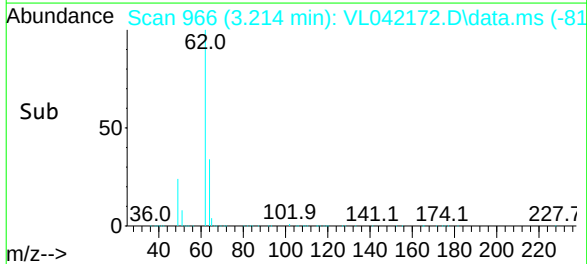
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 62 Resp: 292937
Ion Ratio Lower Upper
62 100
98 6.8 5.4 8.2

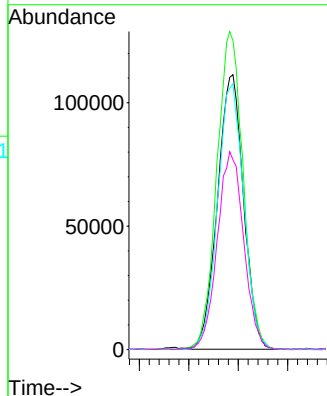
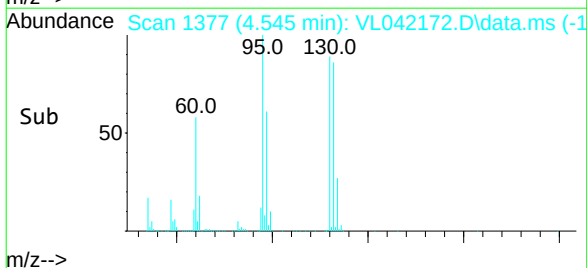
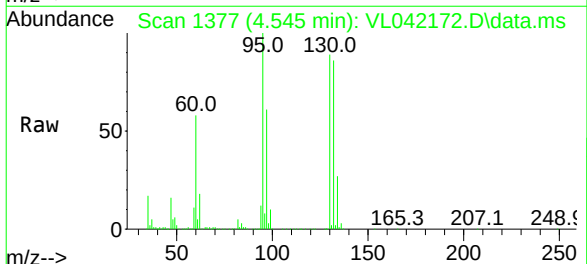
Manual Integrations
APPROVED

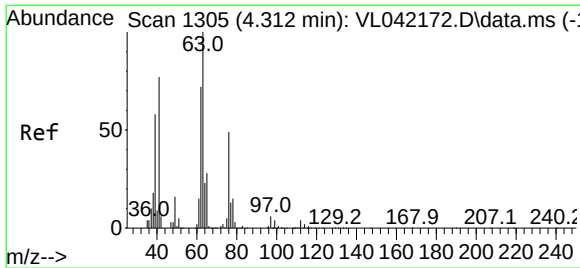
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

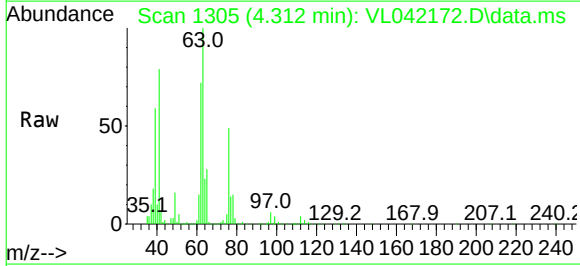
Tgt Ion:130 Resp: 204027
Ion Ratio Lower Upper
130 100
95 112.3 89.8 134.8
132 96.8 77.4 116.2
97 68.9 55.1 82.7





#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

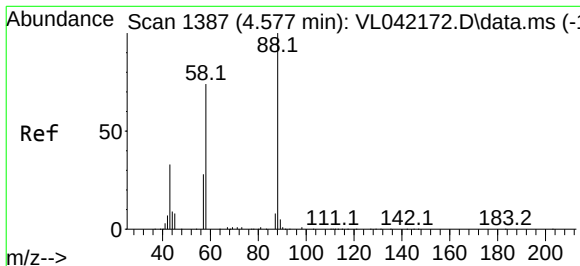
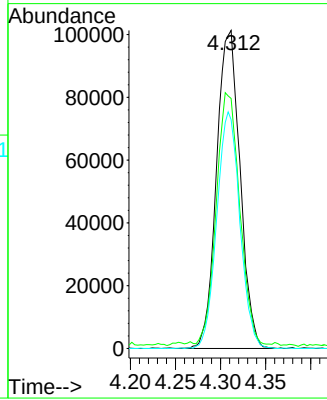
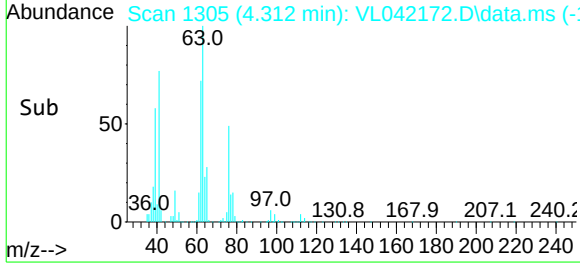
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010



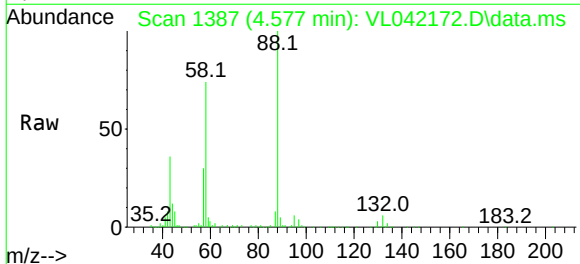
Tgt Ion: 63 Resp: 183439
 Ion Ratio Lower Upper
 63 100
 41 77.1 61.7 92.5
 62 72.0 57.6 86.4

Manual Integrations
 APPROVED

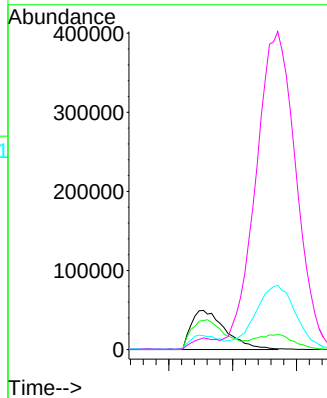
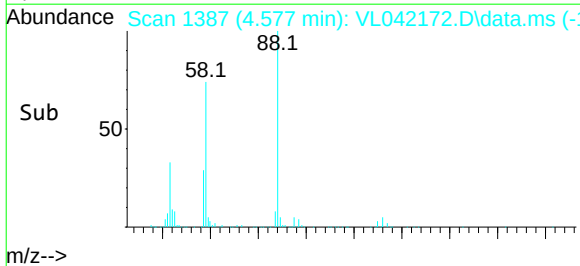
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

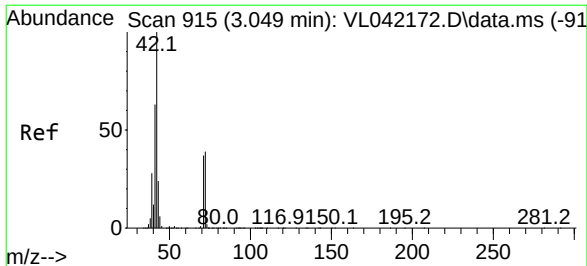


#40
 1,4-Dioxane
 Concen: 9.042 ppbv
 RT: 4.577 min Scan# 1387
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26



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 :

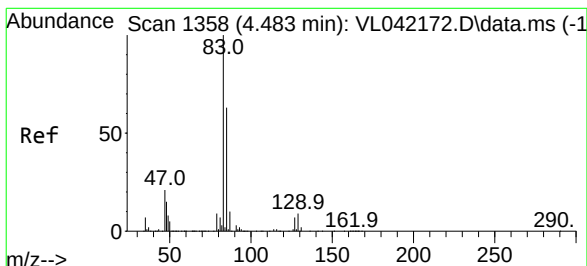
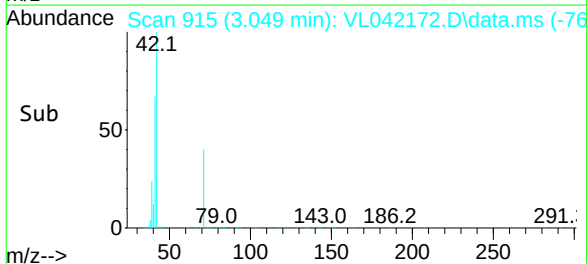
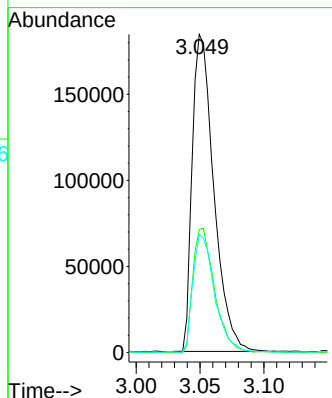
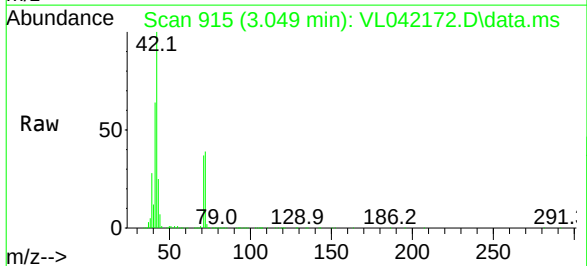
VSTDICCC010

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

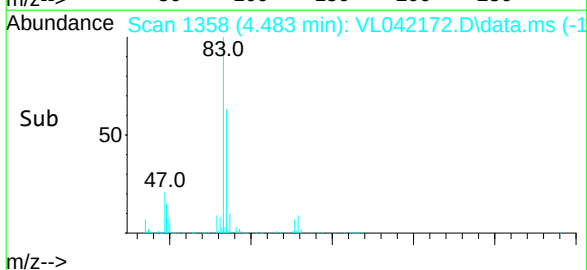
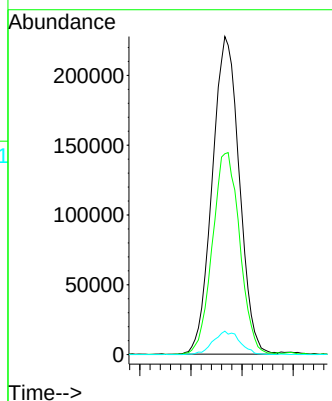
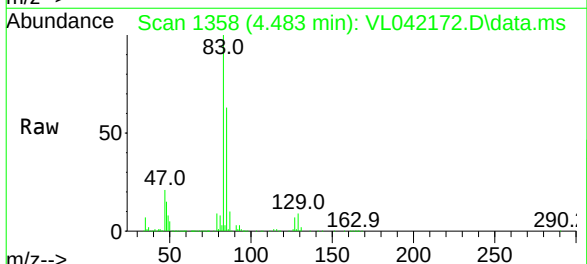
RT: 4.483 min Scan# 1358

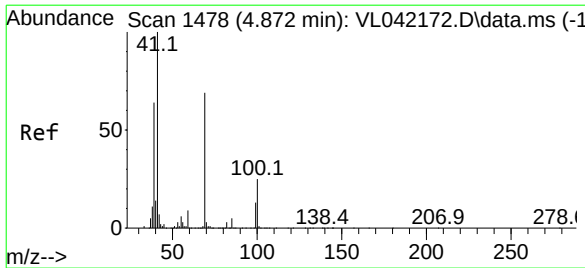
Delta R.T. 0.000 min

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





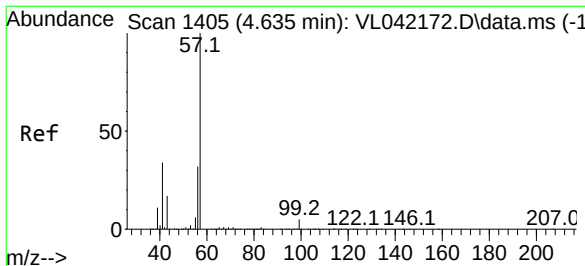
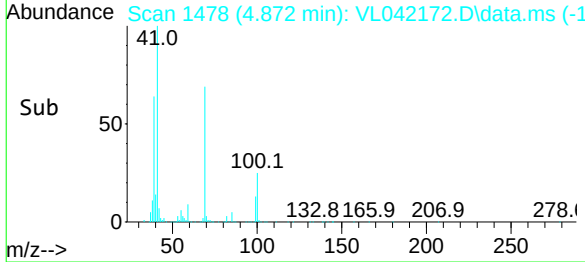
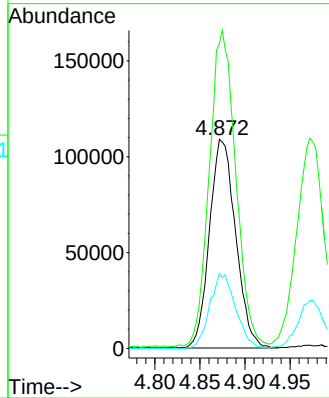
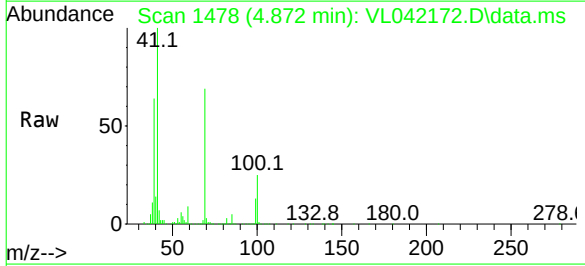
#43
Methyl Methacrylate
Concen: 9.618 ppbv
RT: 4.872 min Scan# 1478
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

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

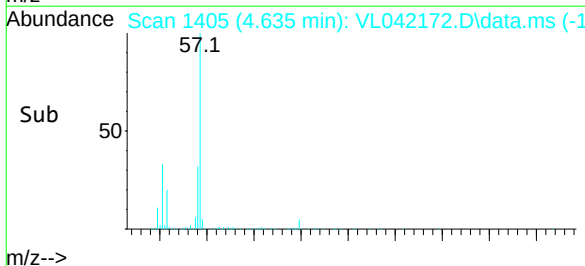
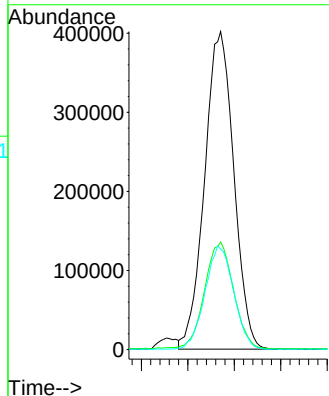
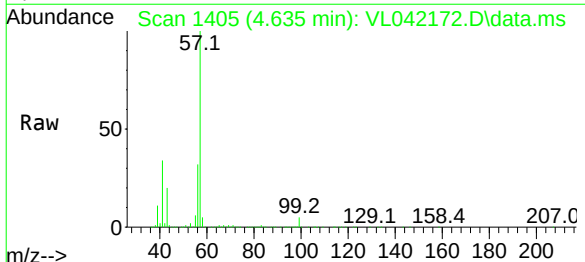
Manual Integrations
APPROVED

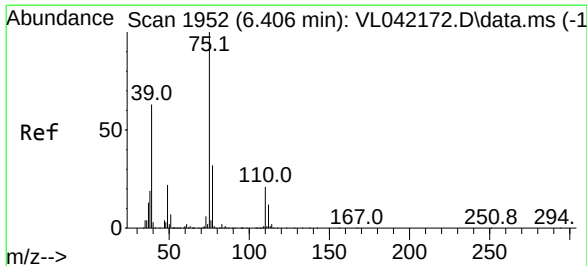
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

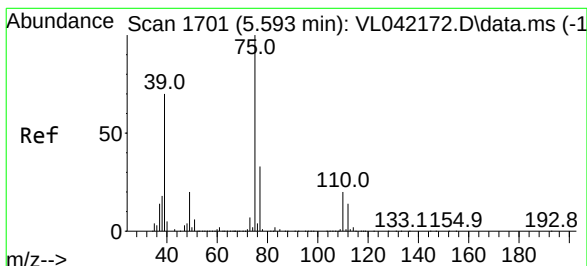
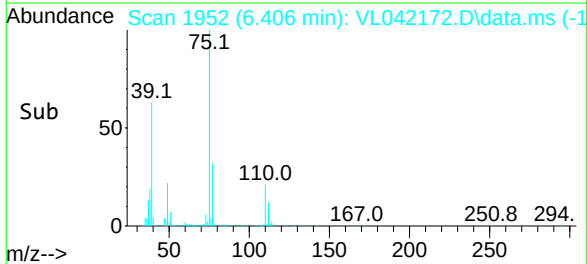
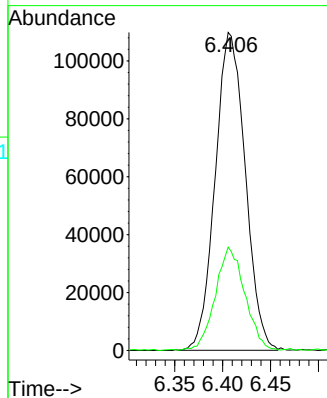
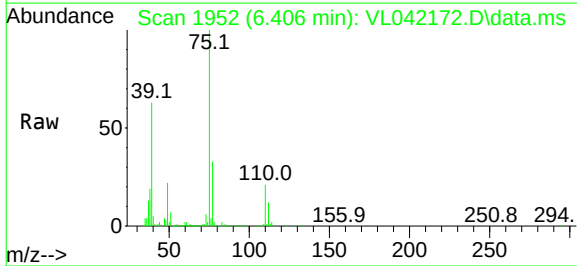
77 32.5 26.0 39.0

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

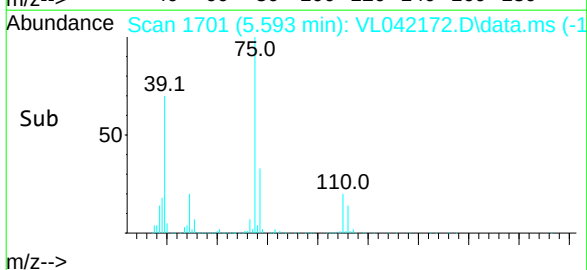
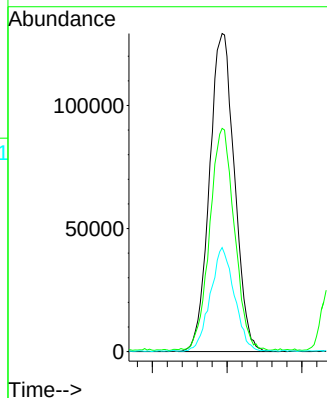
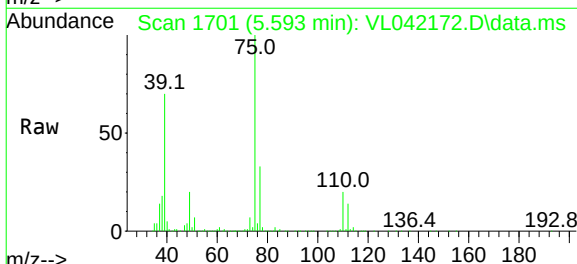
Tgt Ion: 75 Resp: 300021

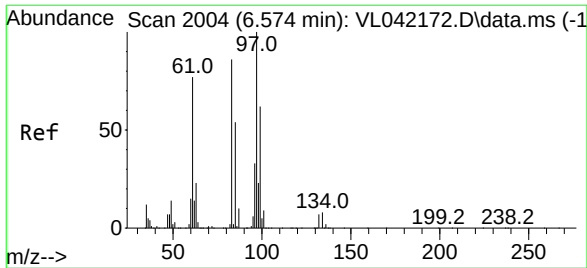
Ion Ratio Lower Upper

75 100

39 69.7 55.8 83.6

77 32.5 26.0 39.0





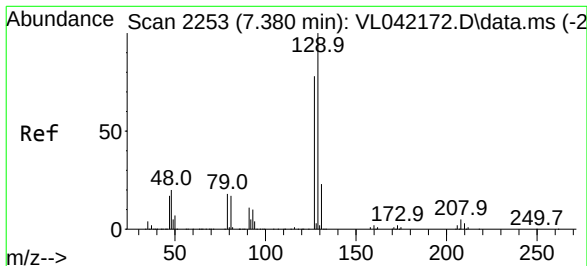
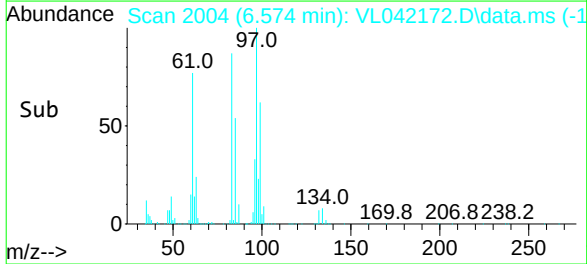
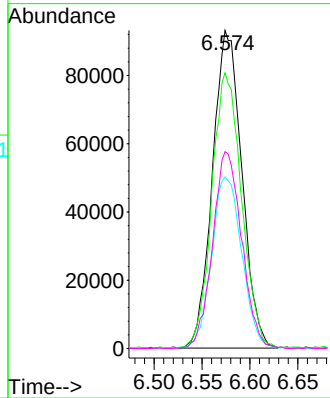
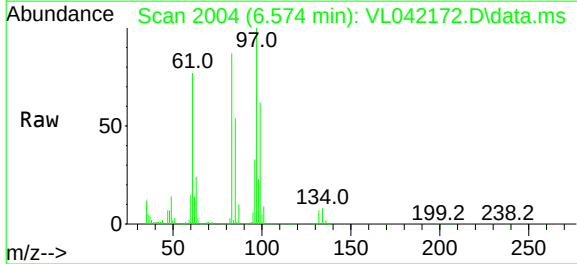
#47
1,1,2-Trichloroethane
Concen: 9.526 ppbv
RT: 6.574 min Scan# 2004
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

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

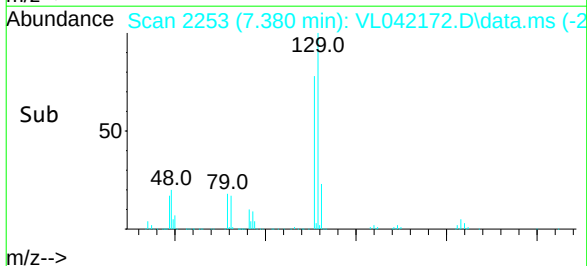
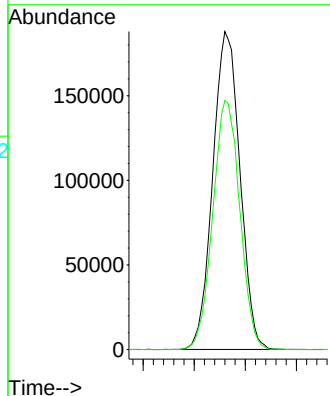
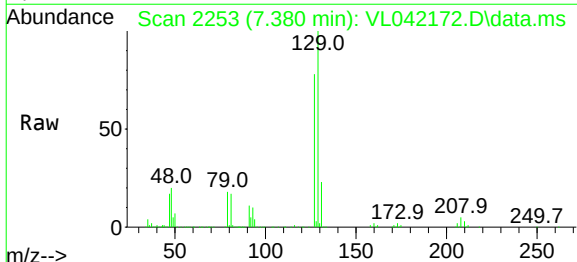
Manual Integrations
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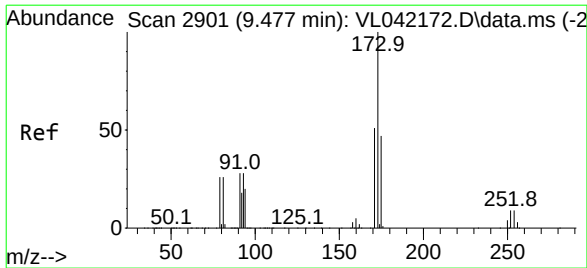
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





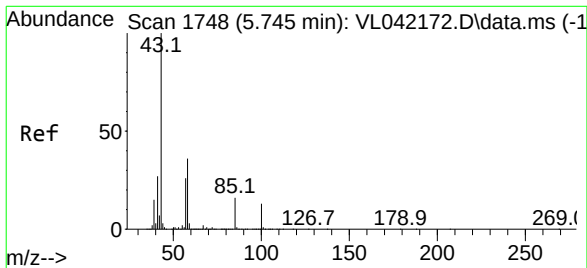
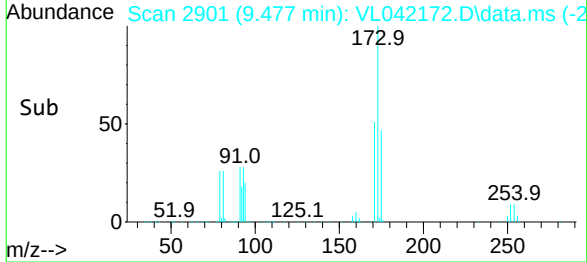
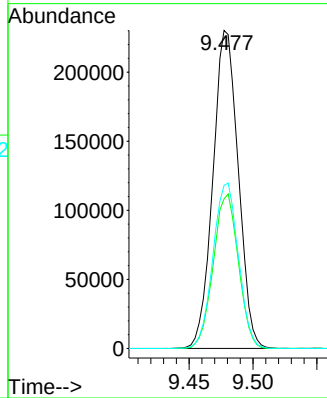
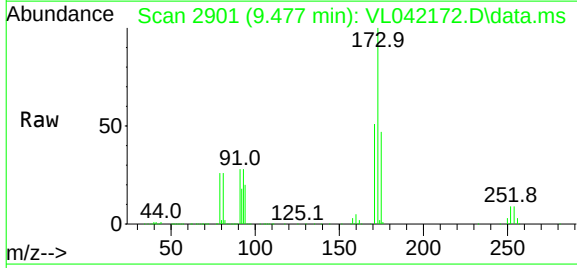
#49
Bromoform
Concen: 10.021 ppbv
RT: 9.477 min Scan# 2901
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

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

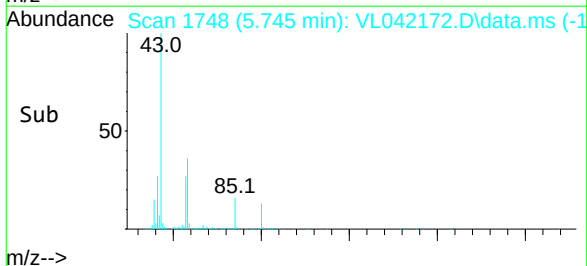
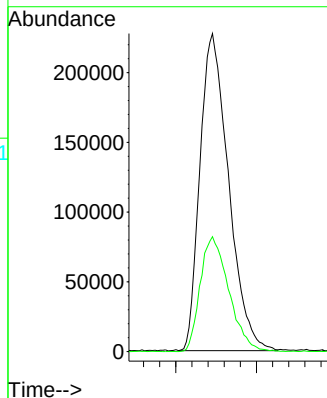
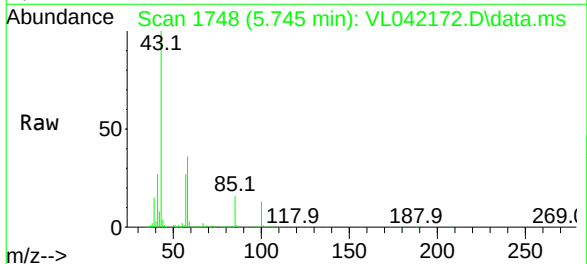
Manual Integrations
APPROVED

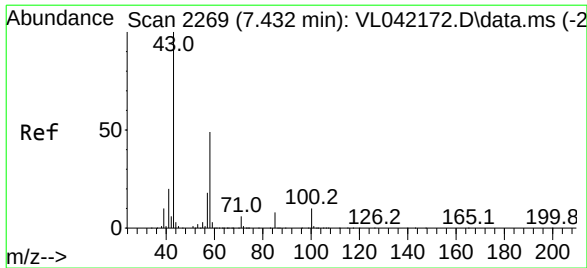
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





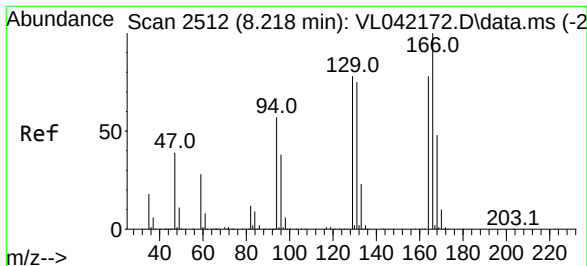
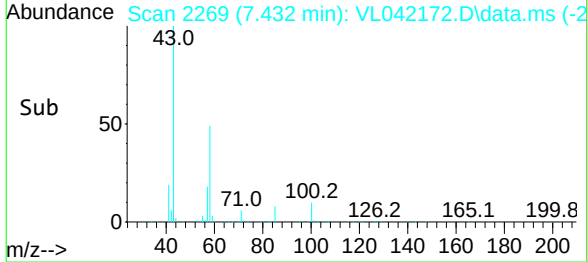
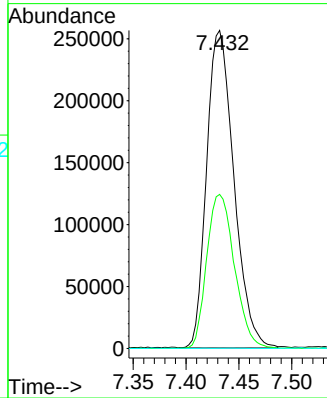
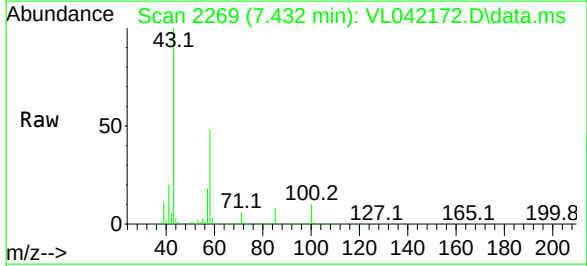
#51
2-Hexanone
Concen: 8.848 ppbv
RT: 7.432 min Scan# 2269
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

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

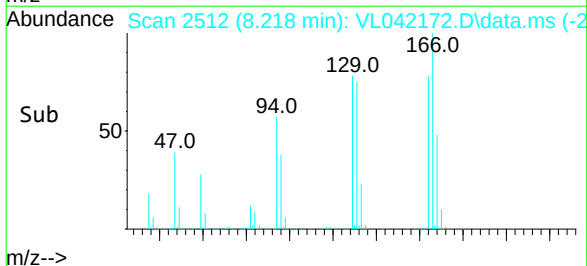
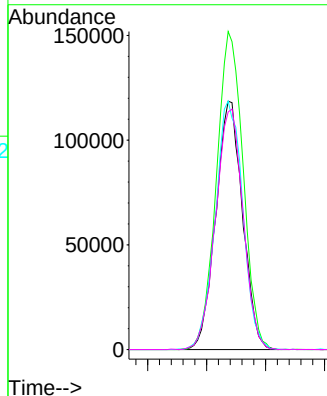
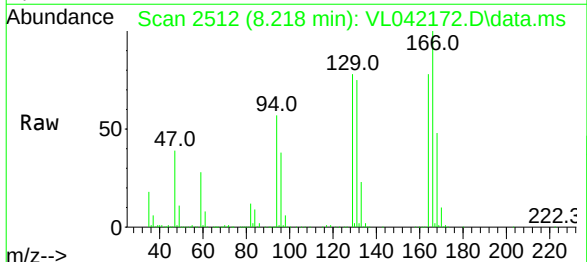
Manual Integrations APPROVED

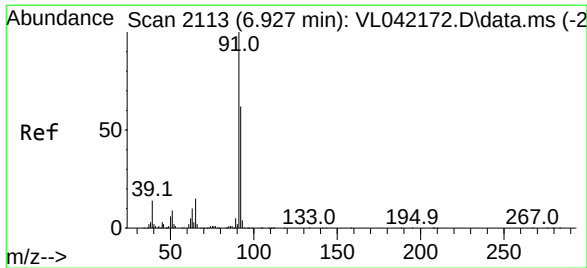
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

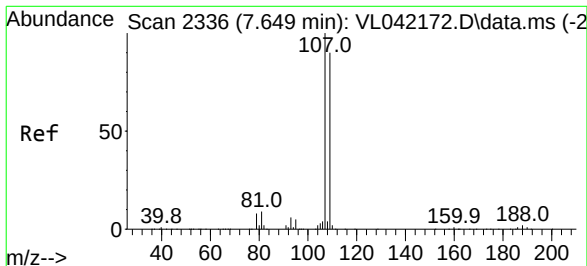
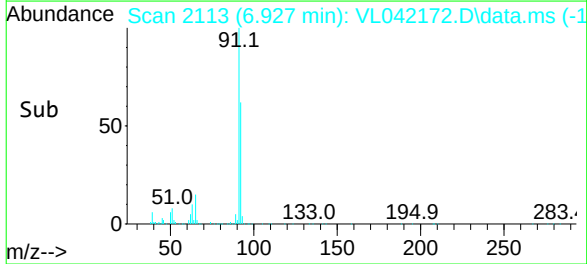
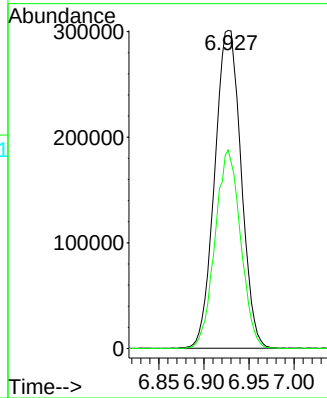
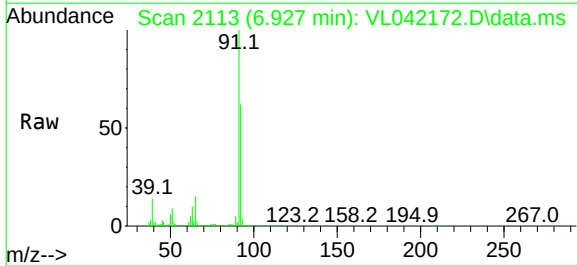
92 60.5 48.4 72.6

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

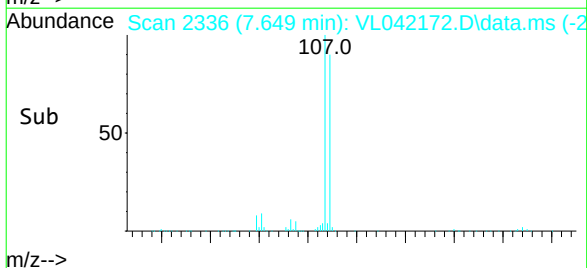
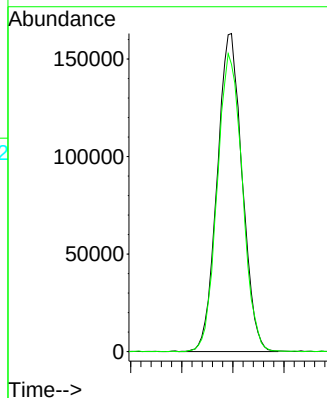
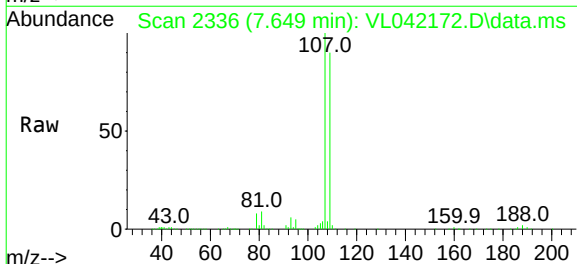
Acq: 27 Mar 2025 08:26

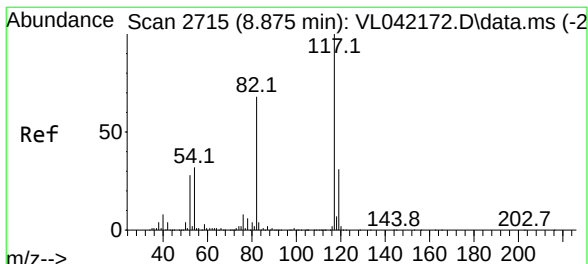
Tgt Ion:107 Resp: 276797

Ion Ratio Lower Upper

107 100

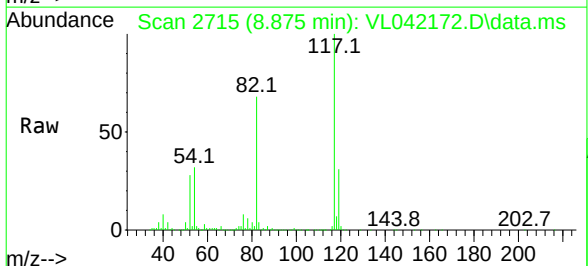
109 90.3 72.2 108.4





#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

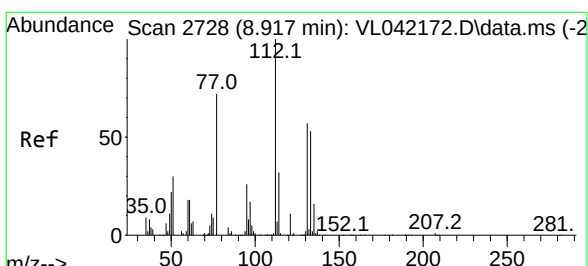
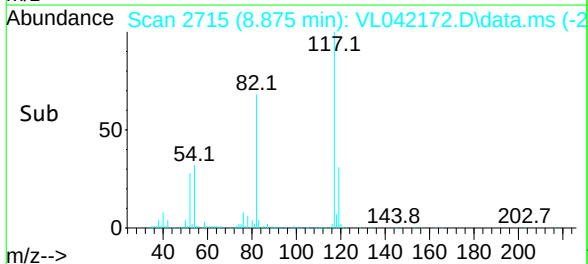
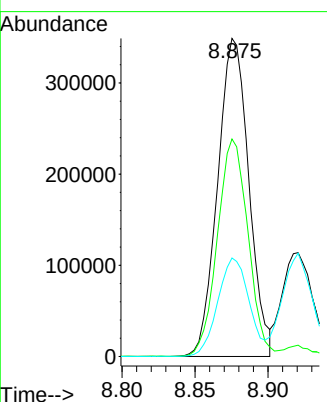
Instrument : MSVOA_L
 ClientSampleId : VSTDICCC010



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

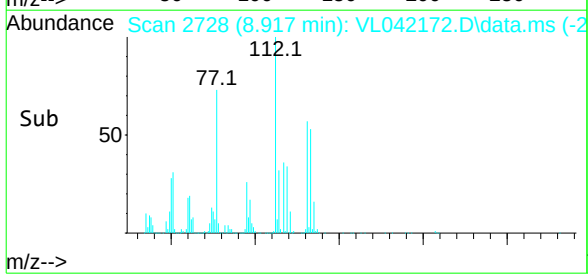
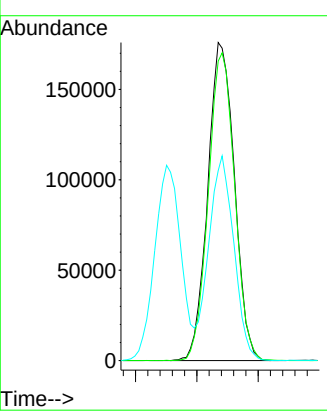
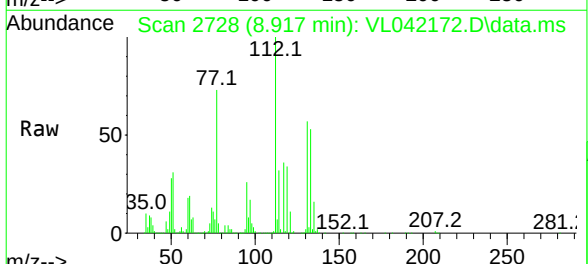
Manual Integrations
APPROVED
 Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

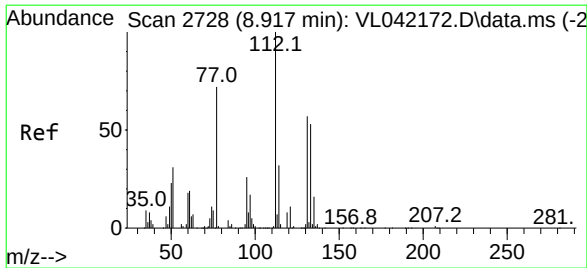


#56
 1,1,1,2-Tetrachloroethane
 Concen: 9.268 ppbv
 RT: 8.917 min Scan# 2728
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

Tgt Ion: 131 Resp: 265037

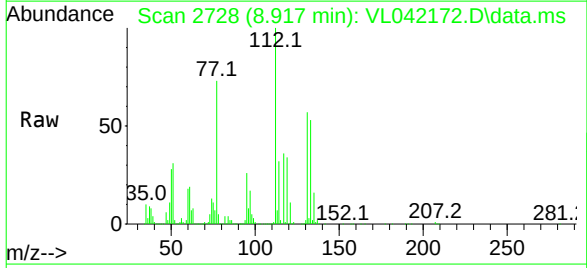
Ion	Ratio	Lower	Upper
131	100		
133	95.7	76.6	114.8
119	62.2	49.8	74.6





#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

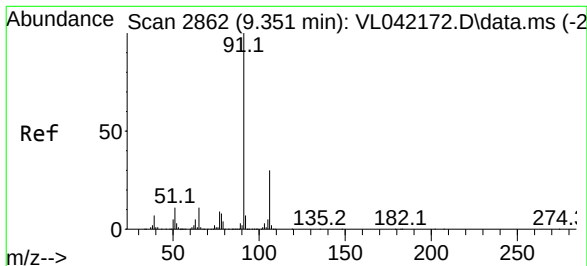
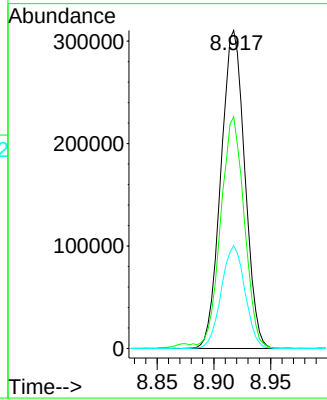
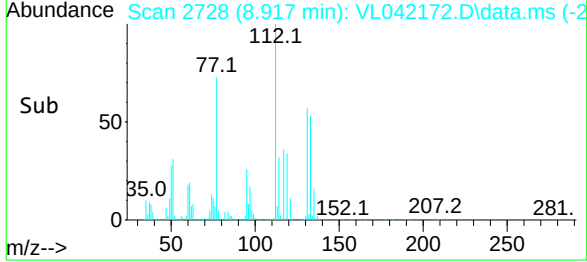
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



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

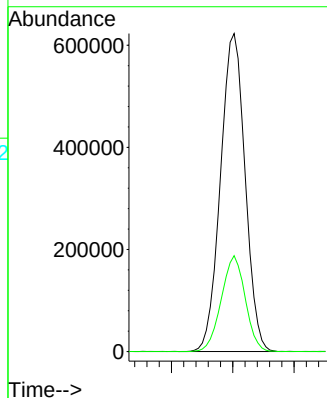
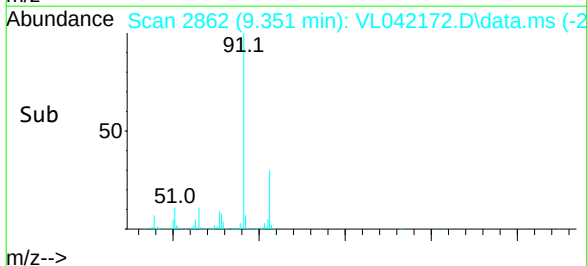
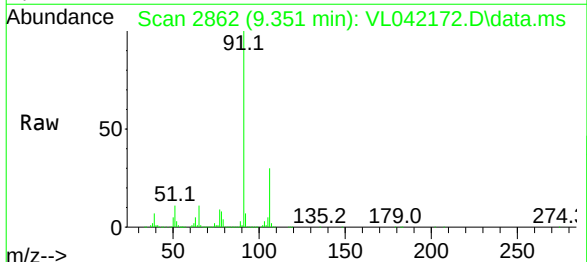
Manual Integrations APPROVED

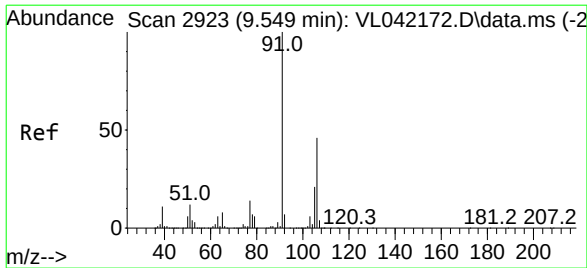
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

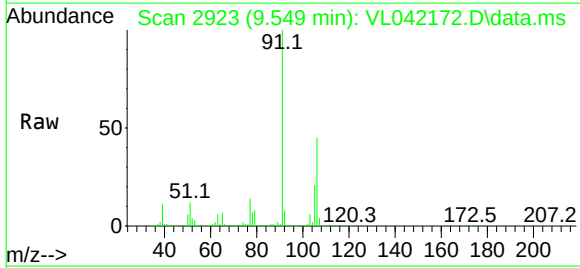
Tgt Ion: 91 Resp: 868003
Ion Ratio Lower Upper
91 100
106 30.2 24.2 36.2





#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

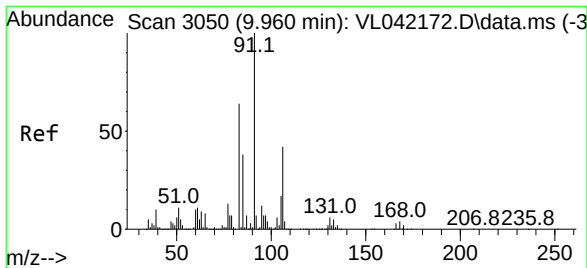
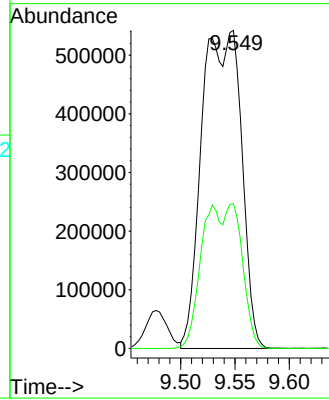
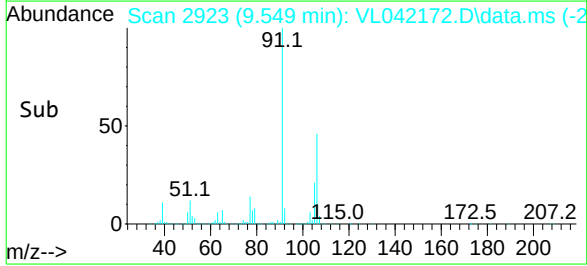
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 91 Resp: 1372806
Ion Ratio Lower Upper
91 100
106 45.5 36.4 54.6

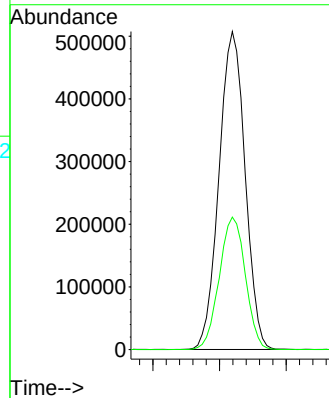
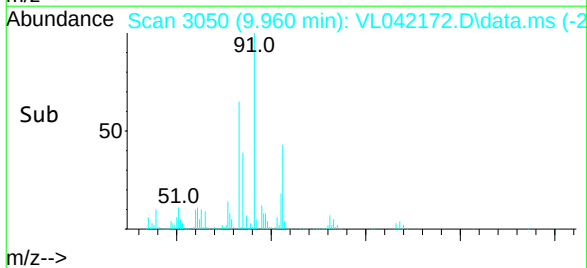
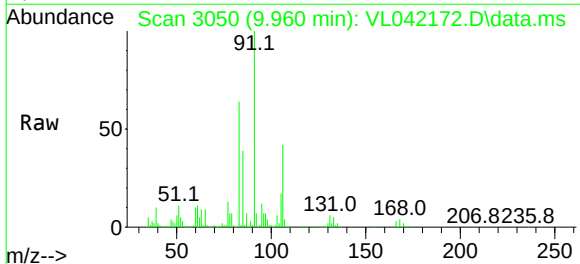
Manual Integrations
APPROVED

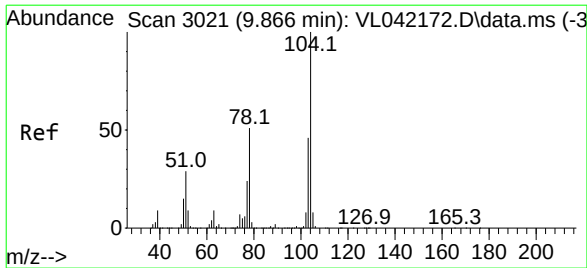
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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 :

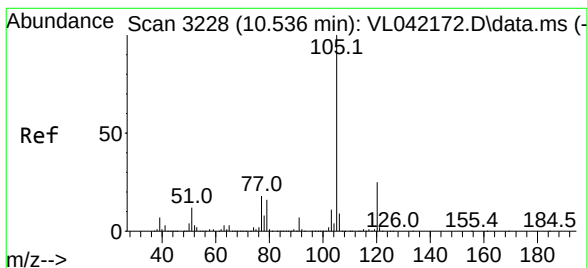
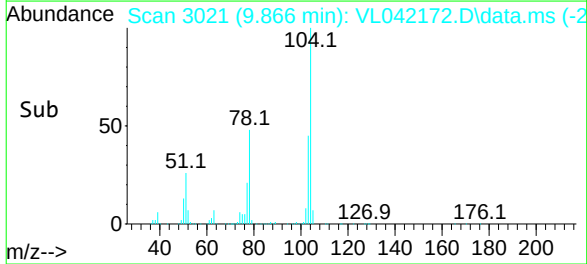
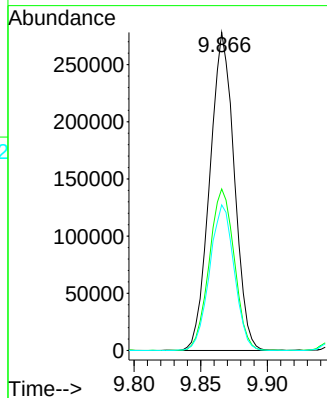
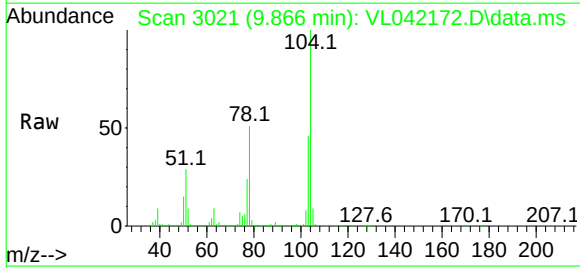
VSTDICCC010

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

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Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#62

Isopropylbenzene

Concen: 9.227 ppbv

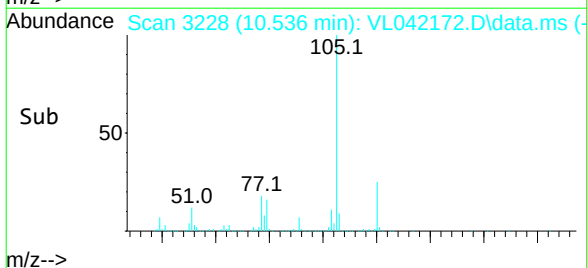
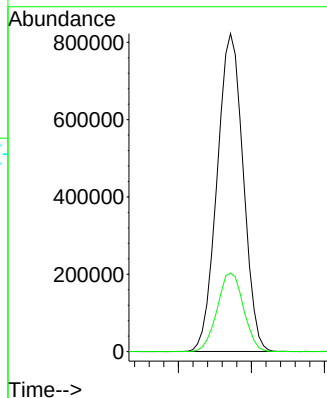
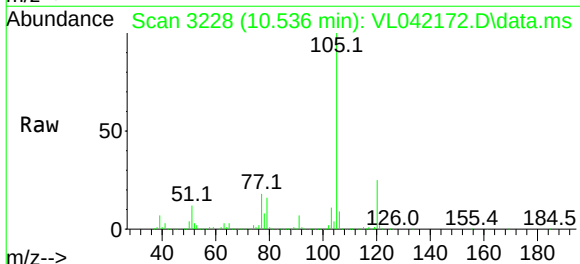
RT: 10.536 min Scan# 3228

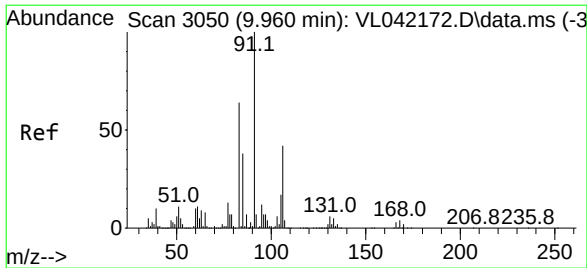
Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

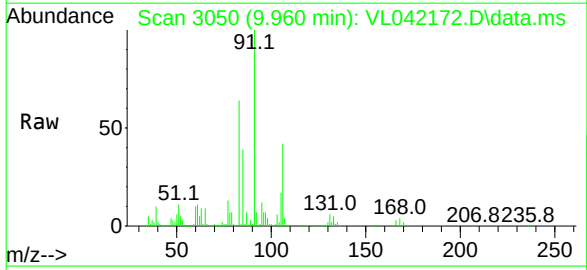
Tgt Ion:	105	Resp:	1019255
Ion	Ratio	Lower	Upper
105	100		
120	24.9	19.9	29.9





#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

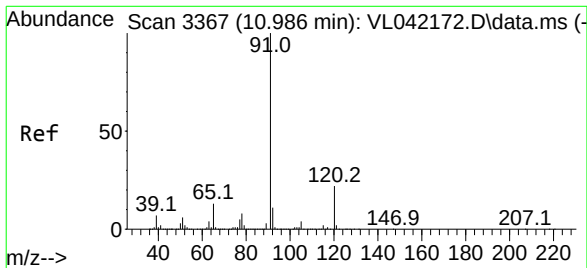
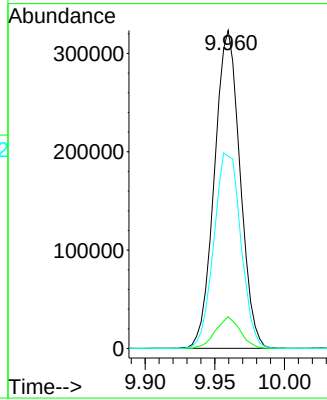
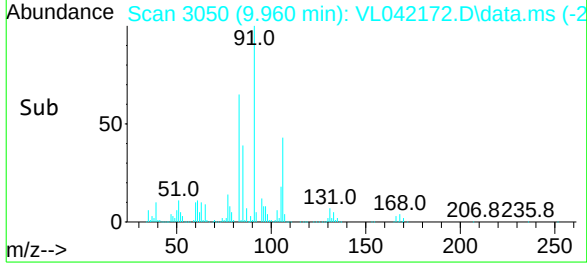
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010



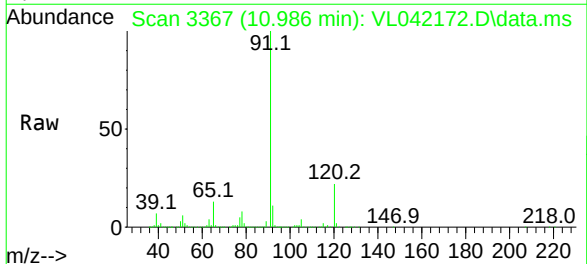
Tgt Ion: 83 Resp: 413392
Ion Ratio Lower Upper
83 100
131 9.6 4.8 14.4
85 65.0 32.5 97.5

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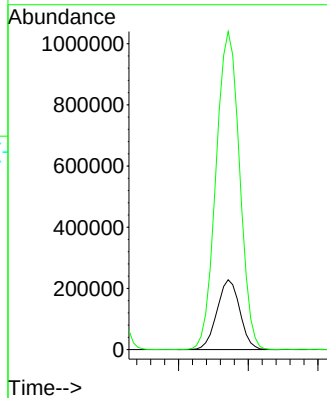
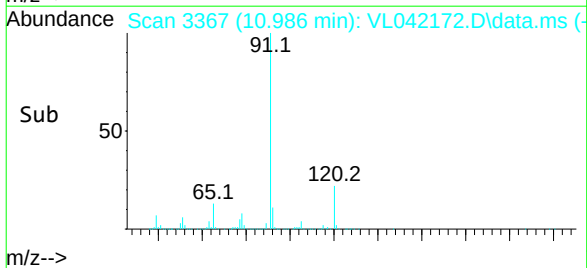
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

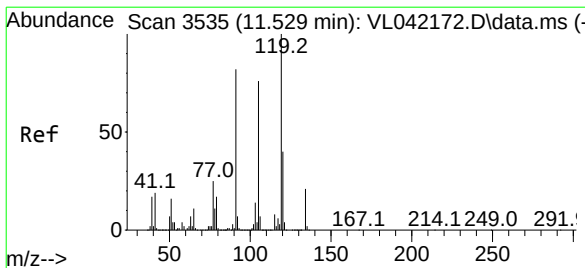


#64
n-propylbenzene
Concen: 9.122 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26



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 :

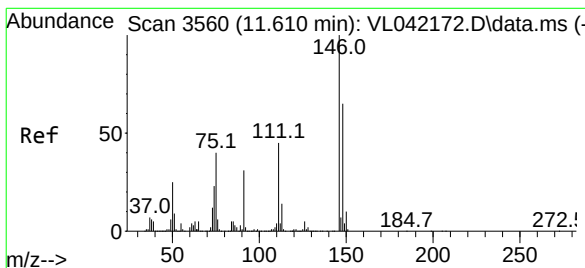
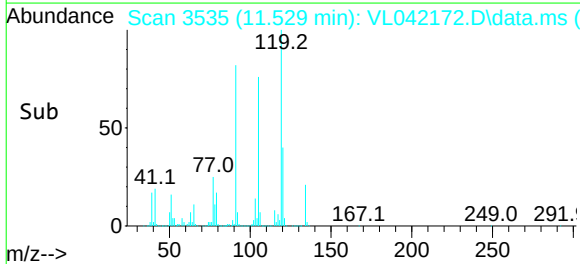
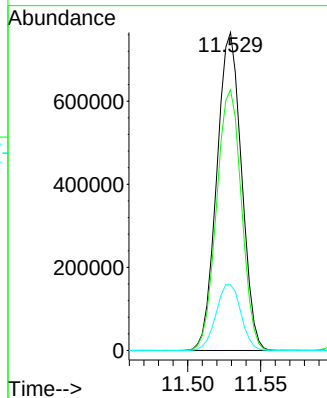
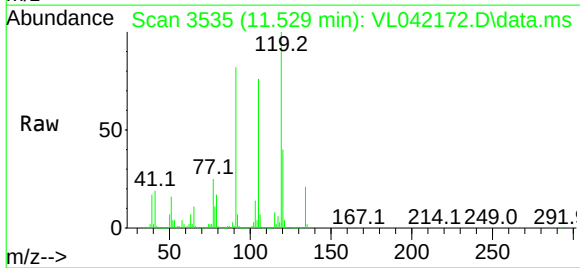
VSTDICCC010

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

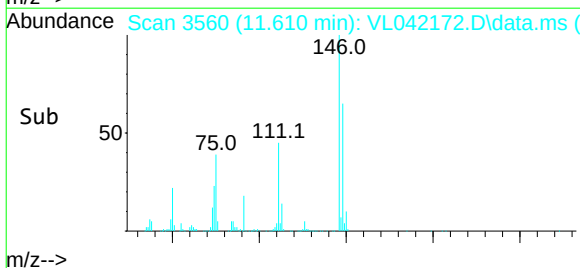
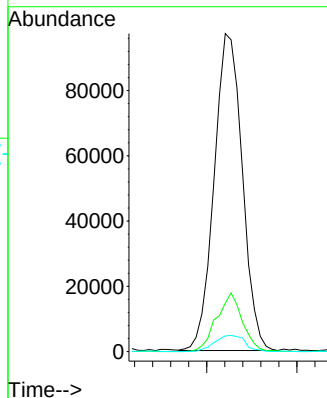
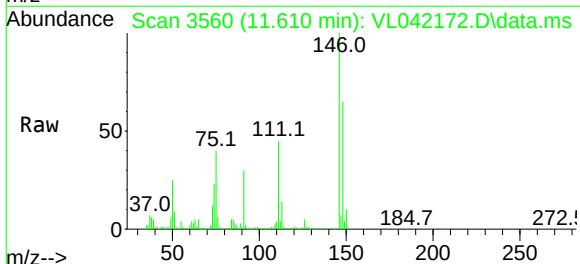
RT: 11.610 min Scan# 3560

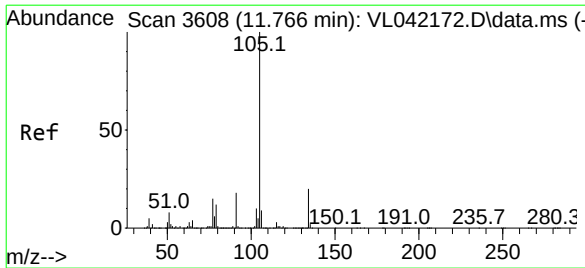
Delta R.T. 0.000 min

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





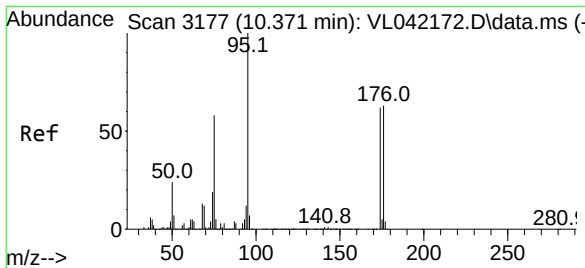
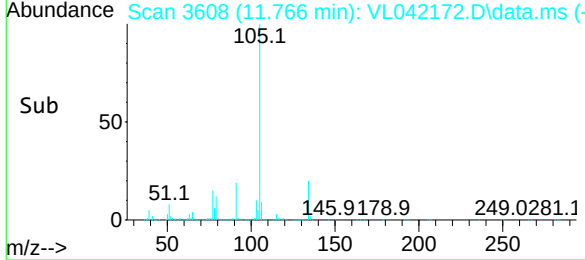
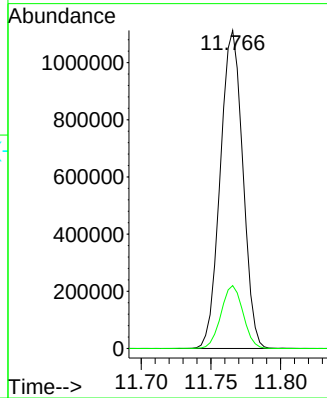
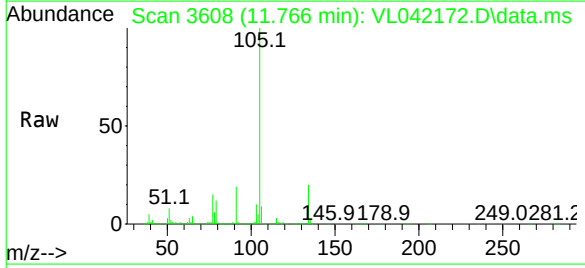
#67
sec-Butylbenzene
Concen: 8.796 ppbv
RT: 11.766 min Scan# 3608
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 105 Resp: 1249106
Ion Ratio Lower Upper
105 100
134 19.4 15.5 23.3

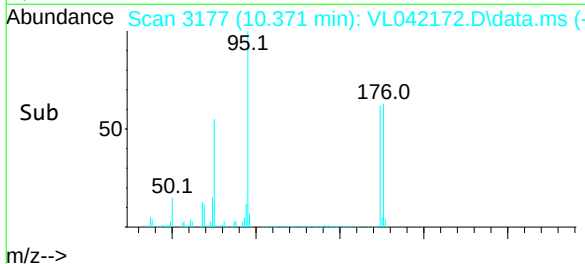
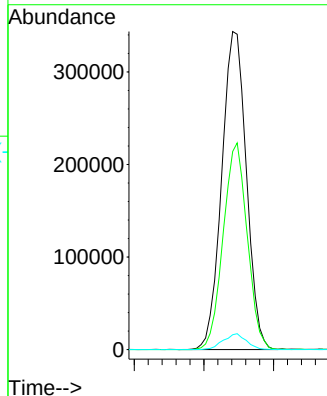
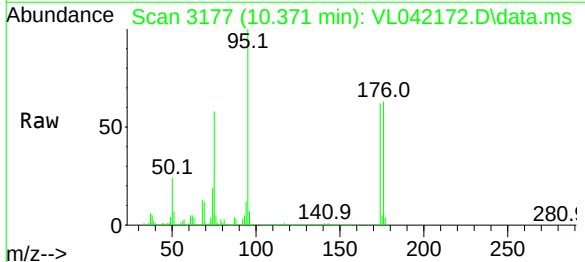
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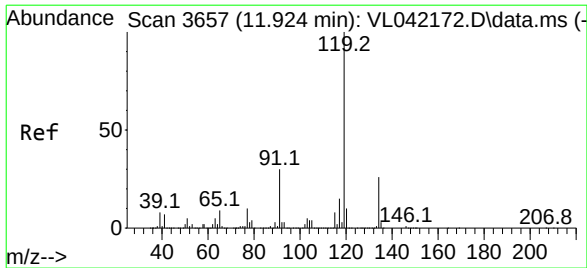
Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025



#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

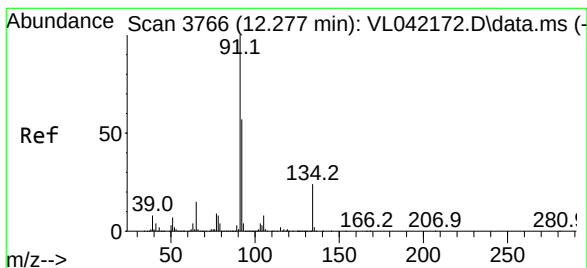
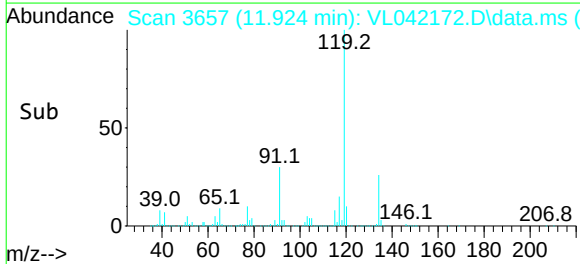
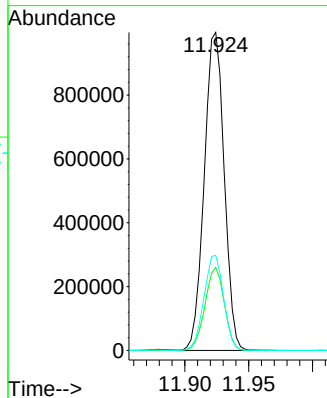
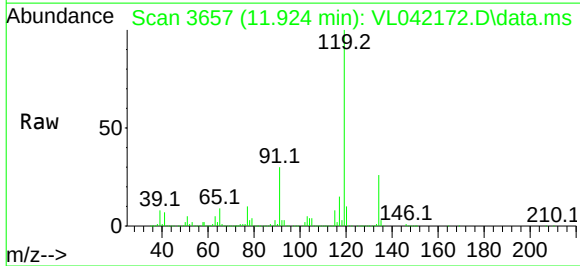
91 29.6 23.7 35.5

Manual Integrations

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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

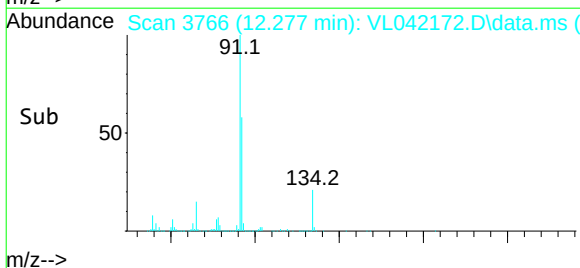
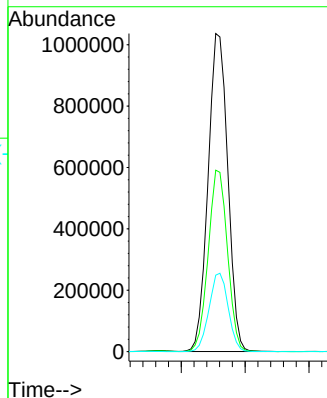
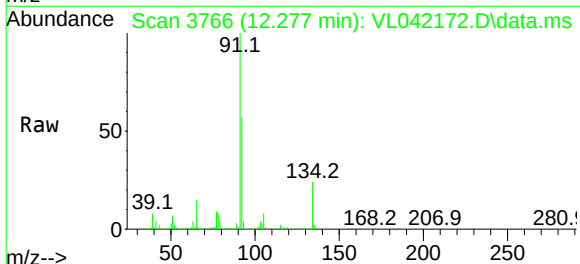
Tgt Ion: 91 Resp: 1110351

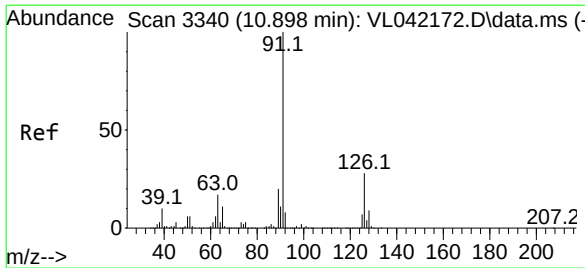
Ion Ratio Lower Upper

91 100

92 56.1 44.9 67.3

134 24.0 19.2 28.8





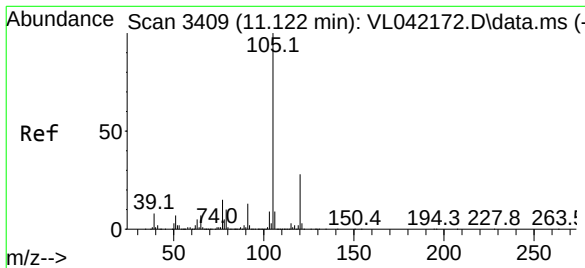
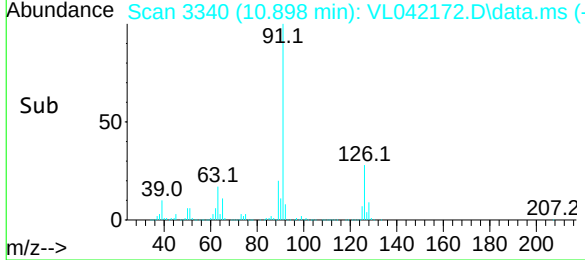
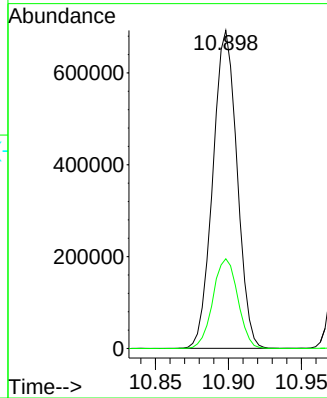
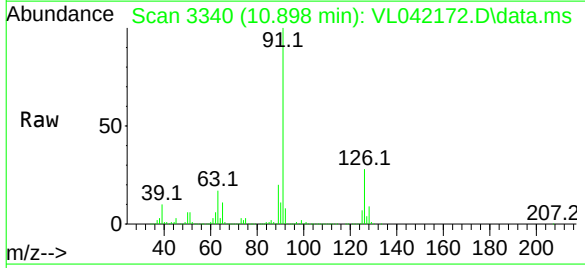
#71
2-Chlorotoluene
Concen: 9.320 ppbv
RT: 10.898 min Scan# 3340
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 799102
Ion Ratio Lower Upper
91 100
126 29.0 11.6 46.4

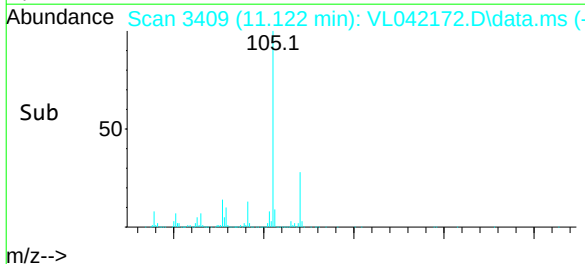
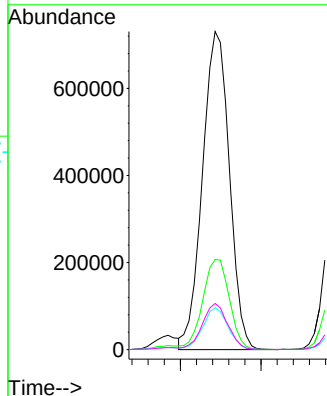
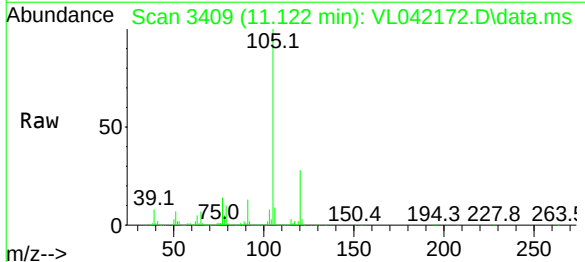
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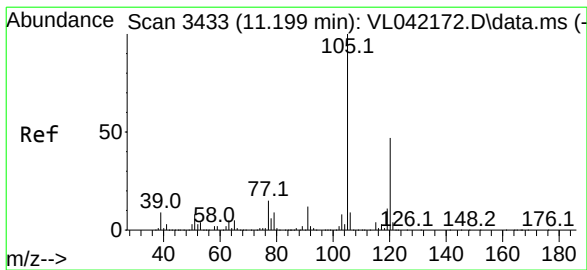
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

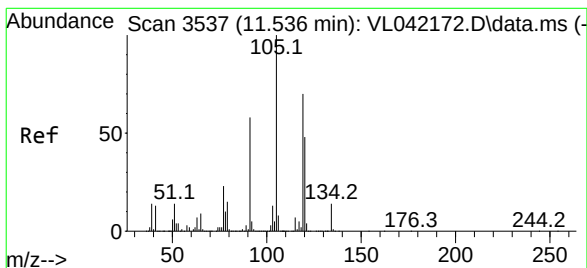
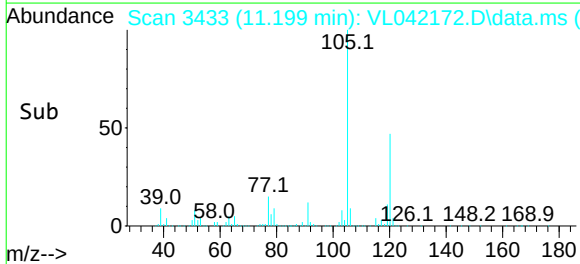
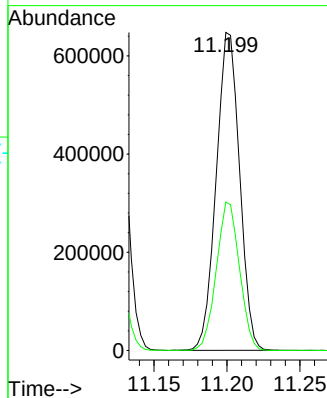
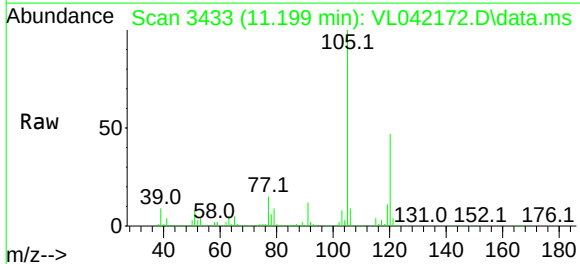
120 46.7 37.4 56.0

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

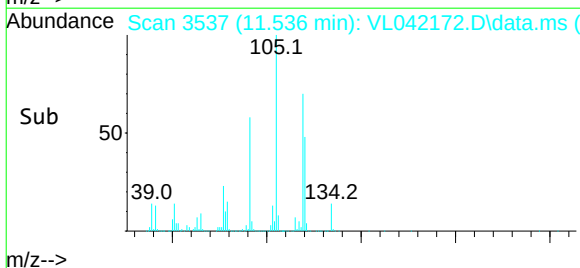
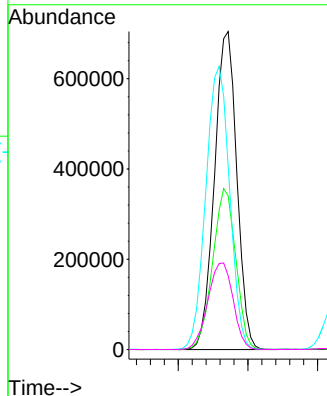
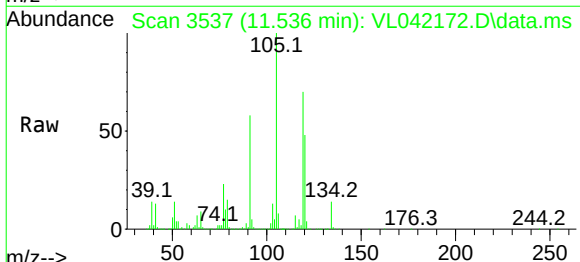
Ion Ratio Lower Upper

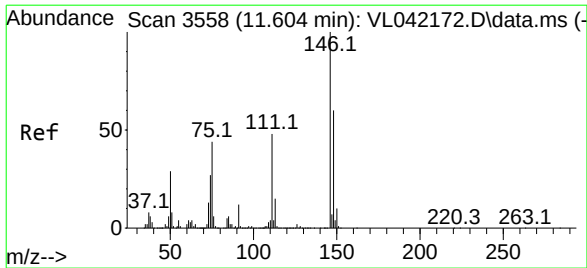
105 100

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 :

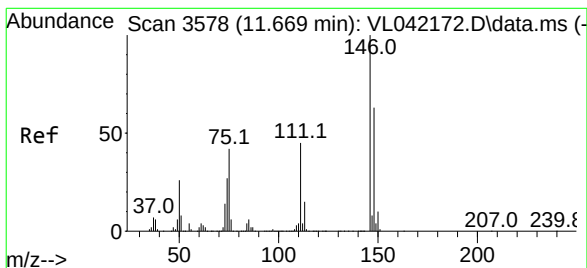
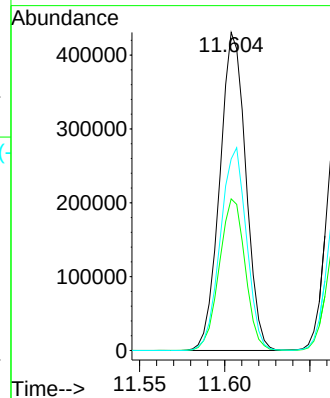
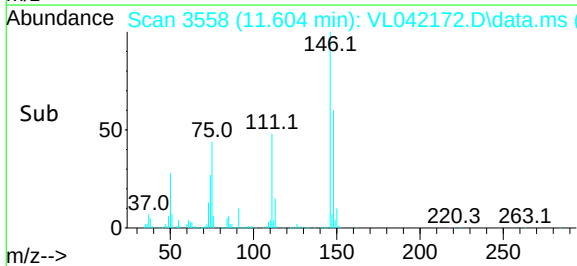
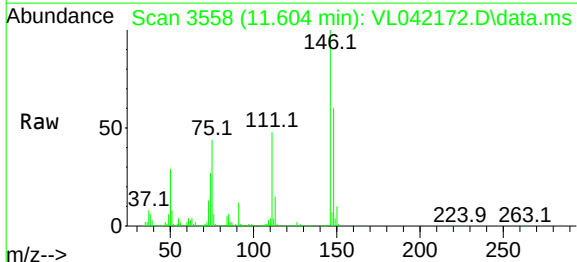
VSTDICCC010

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

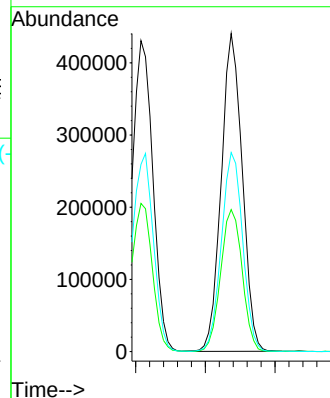
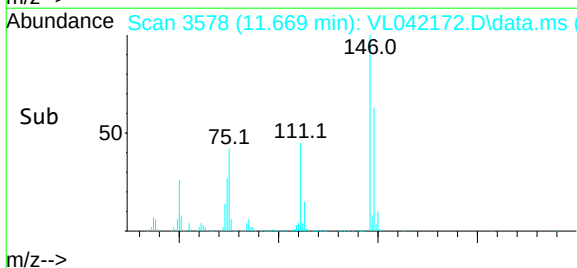
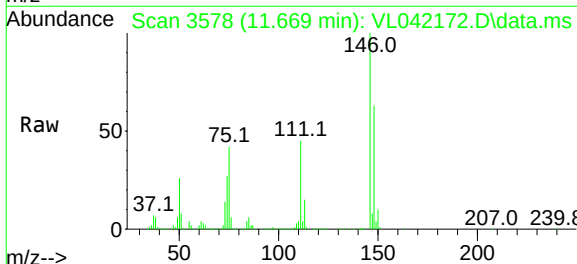
RT: 11.669 min Scan# 3578

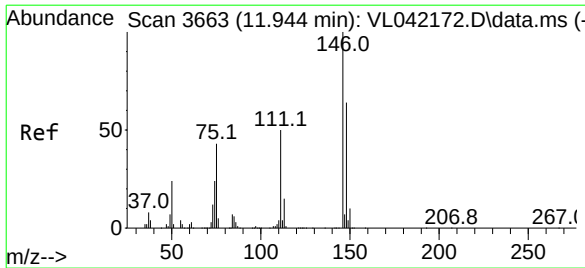
Delta R.T. 0.000 min

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 :

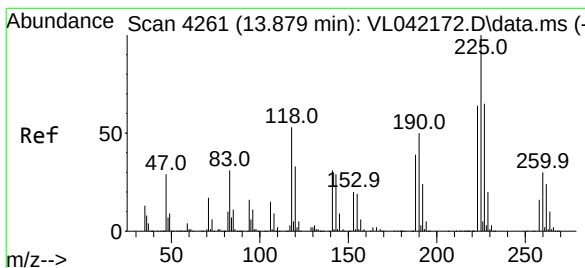
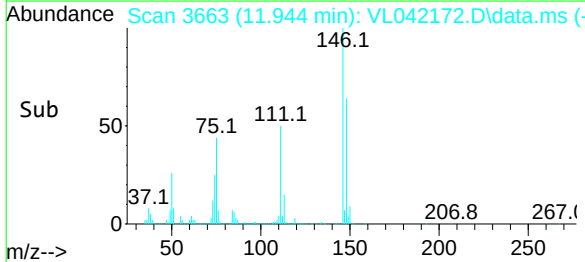
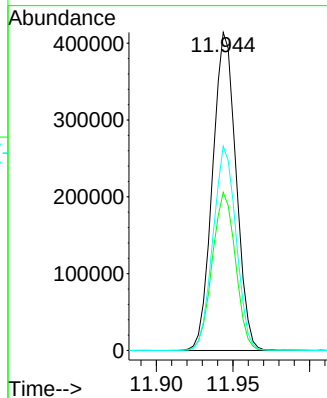
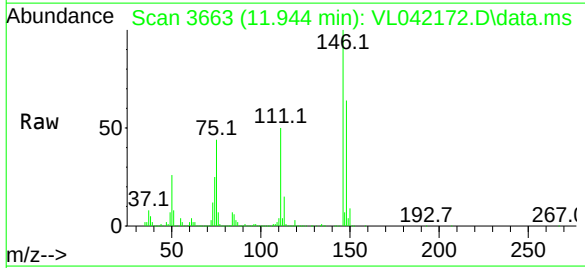
VSTDICCC010

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

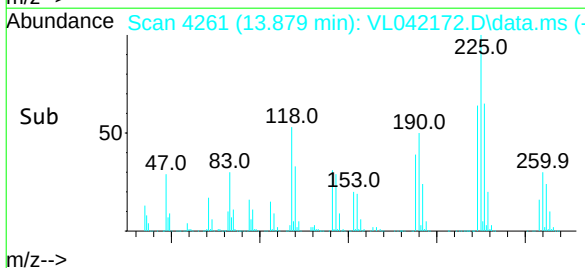
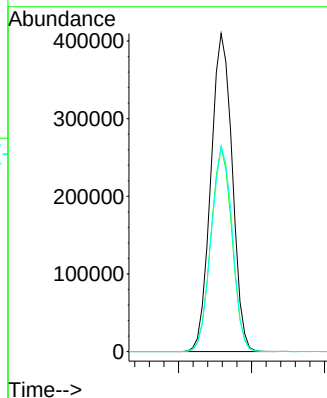
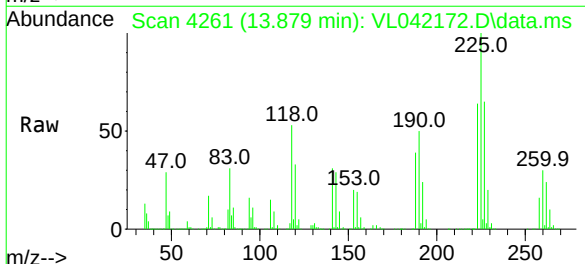
RT: 13.879 min Scan# 4261

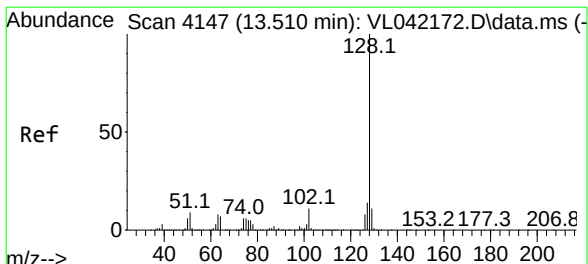
Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

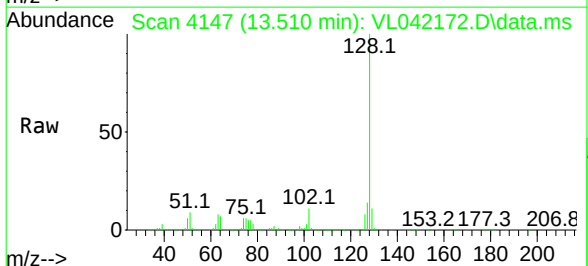
Tgt Ion:	225	Resp:	416735
Ion Ratio	Lower	Upper	
225	100		
223	63.3	50.6	76.0
227	64.0	51.2	76.8





#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

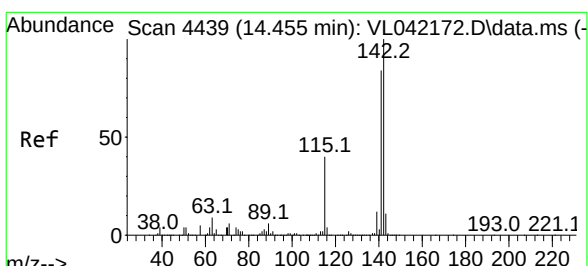
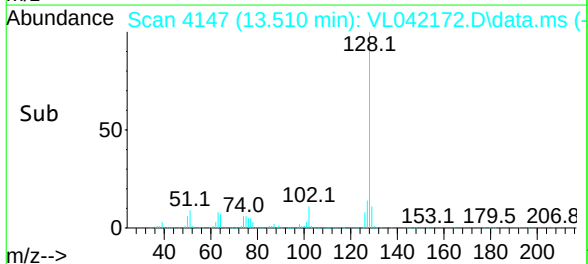
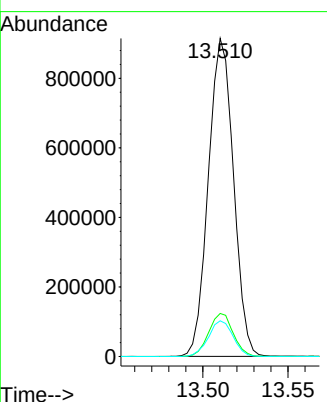
Instrument : MSVOA_L
ClientSampleId : VSTDICCC010



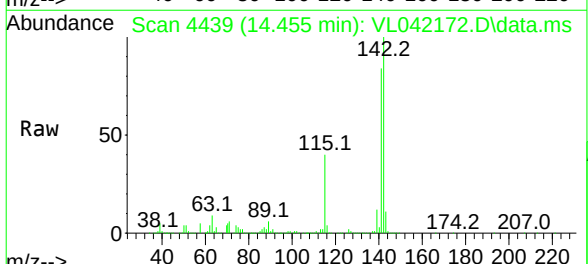
Tgt Ion: 128 Resp: 938476

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

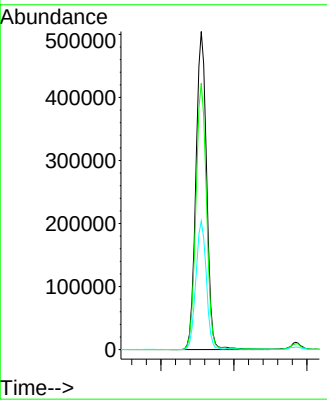
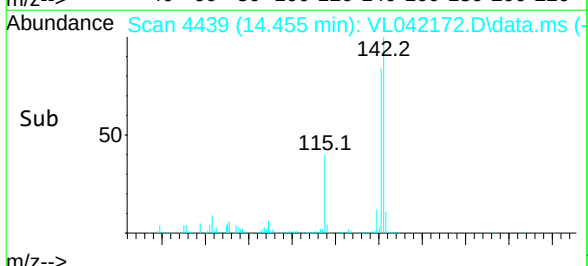


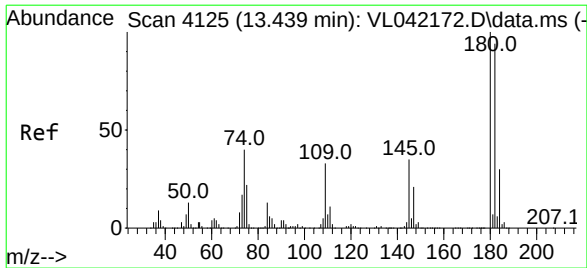
#80
Naphthalene, 2-methyl-
Concen: 10.436 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26



Tgt Ion: 142 Resp: 514394

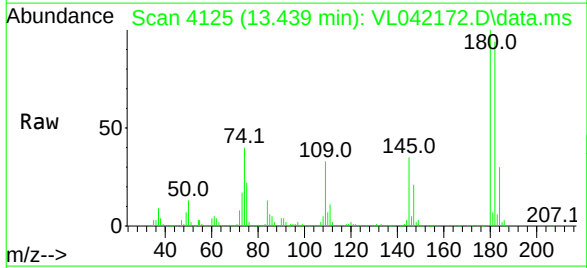
Ion	Ratio	Lower	Upper
142	100		
141	82.9	66.3	99.5
115	39.5	31.6	47.4





#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

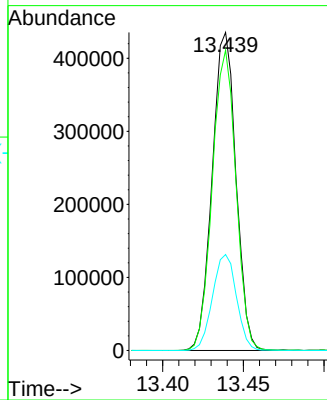
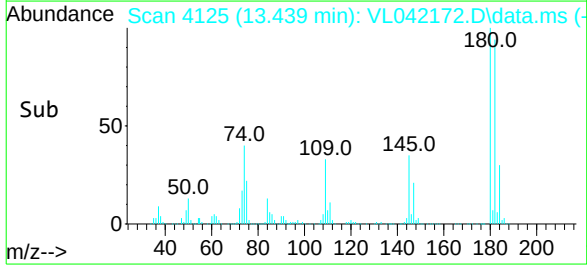
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



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

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

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	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 : 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

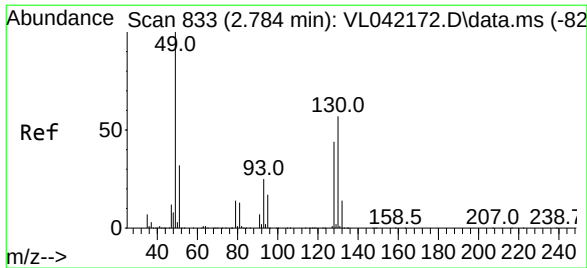
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

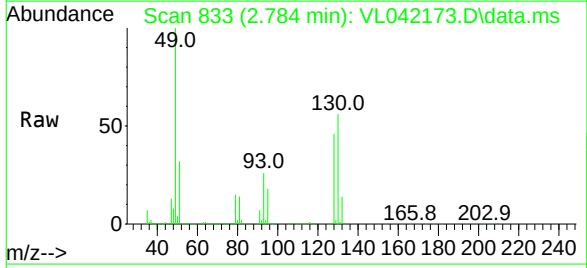
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	61829	2.050	ppbv #	91
47) 1,1,2-Trichloroethane	6.577	97	41387	1.985	ppbv	95
48) Dibromochloromethane	7.383	129	72441	2.050	ppbv	100
49) Bromoform	9.477	173	65221	2.056	ppbv	98
50) 4-Methyl-2-Pentanone	5.752	43	132328	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



#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

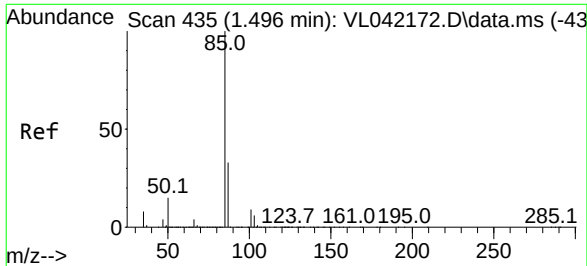
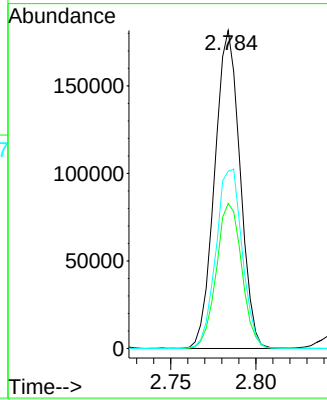
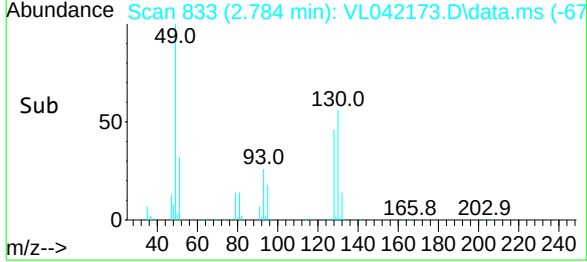
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



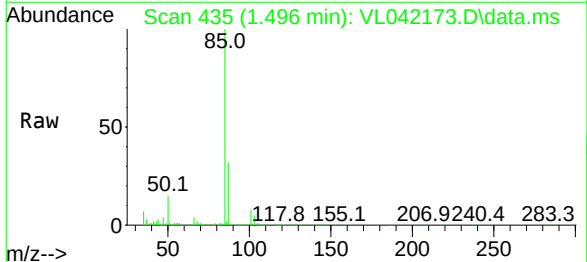
Tgt Ion: 49 Resp: 188395
Ion Ratio Lower Upper
49 100
128 45.7 22.9 68.5
130 58.5 28.8 86.4

Manual Integrations
APPROVED

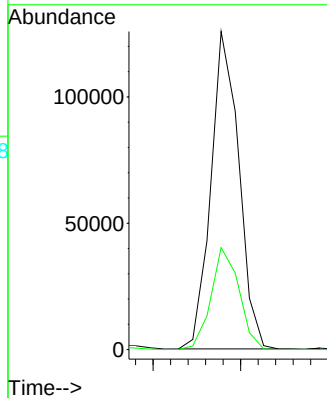
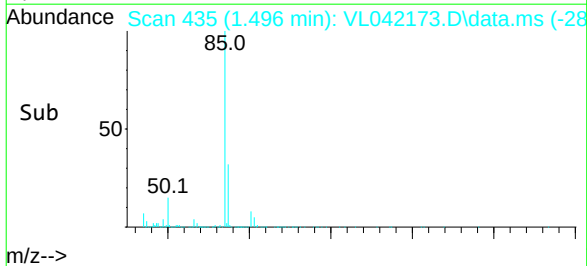
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

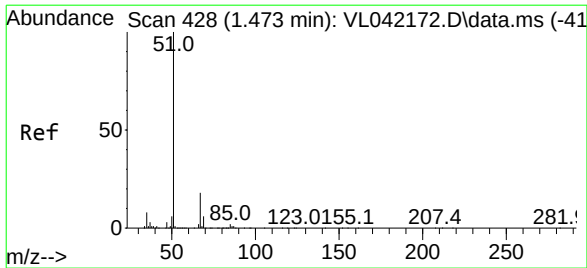


#2
Dichlorodifluoromethane
Concen: 2.008 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59



Tgt Ion: 85 Resp: 55859
Ion Ratio Lower Upper
85 100
87 32.1 26.1 39.1





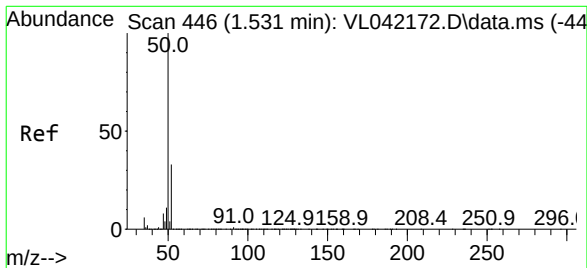
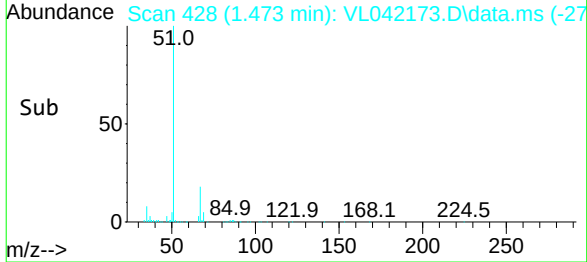
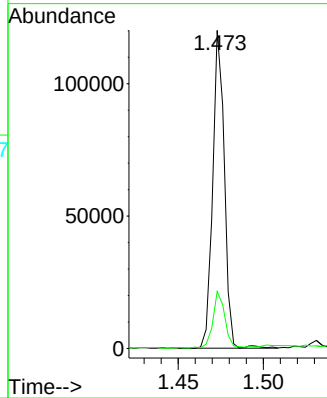
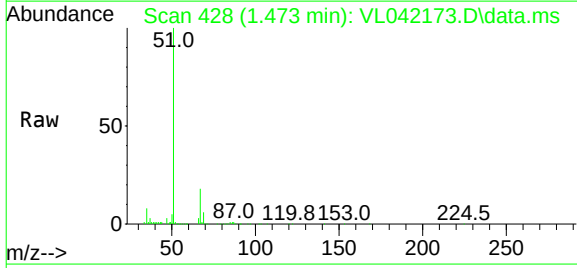
#3
Chlorodifluoromethane
Concen: 2.007 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 51 Resp: 57045
Ion Ratio Lower Upper
51 100
67 19.4 15.0 22.6

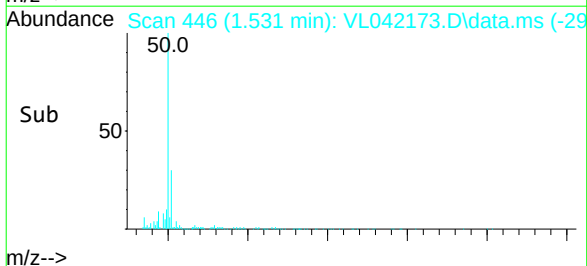
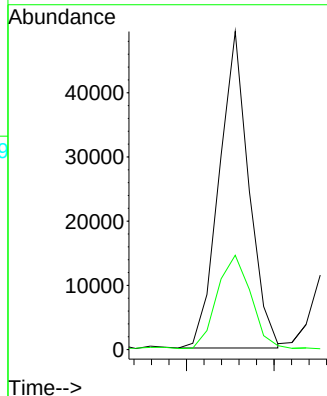
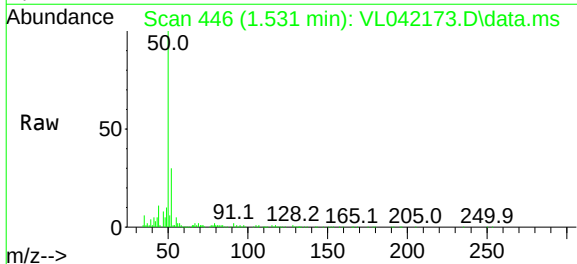
Manual Integrations
APPROVED

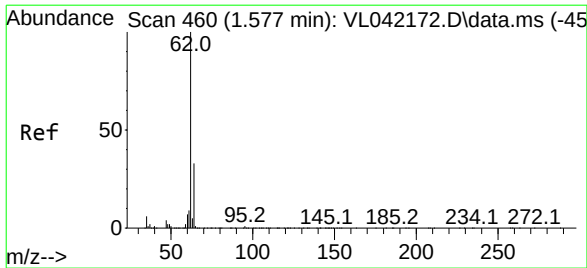
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





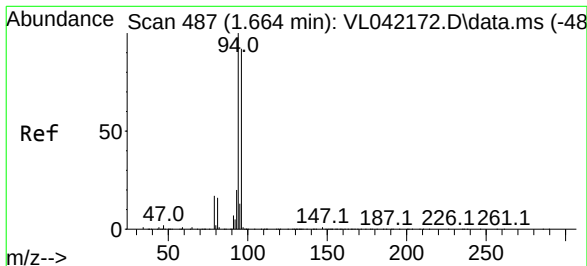
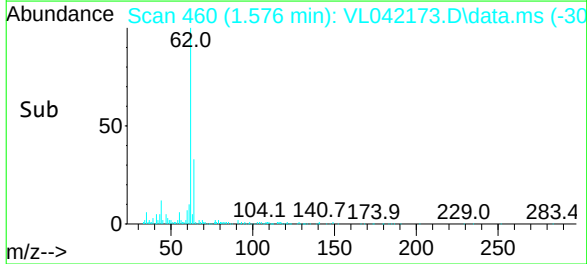
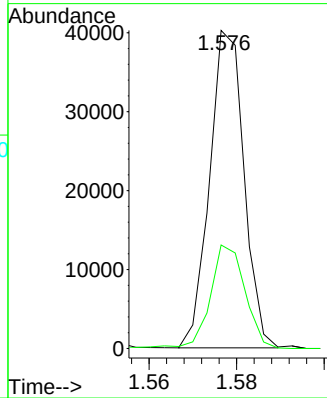
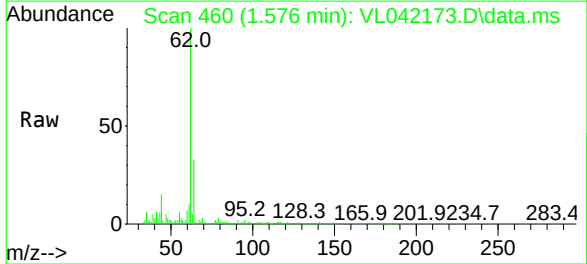
#5
 Vinyl Chloride
 Concen: 1.897 ppbv
 RT: 1.576 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Tgt Ion: 62 Resp: 21989
 Ion Ratio Lower Upper
 62 100
 64 32.5 26.6 40.0

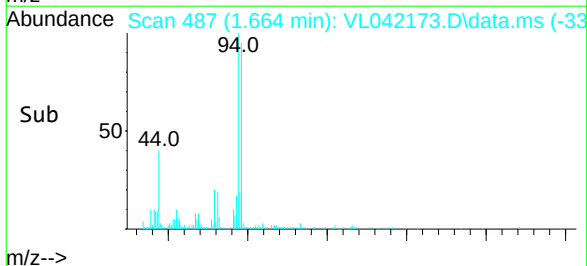
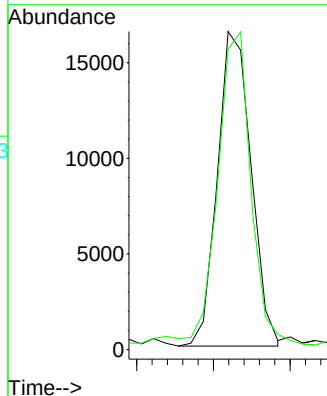
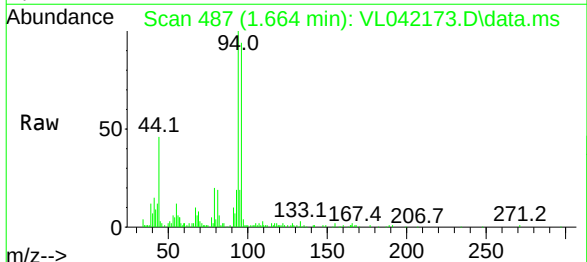
Manual Integrations
 APPROVED

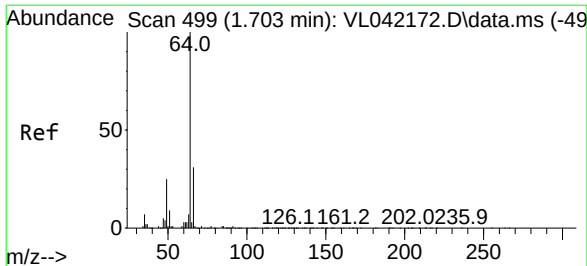
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#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





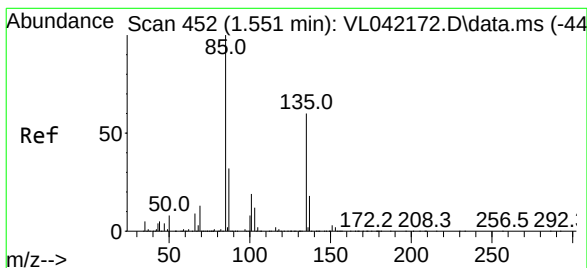
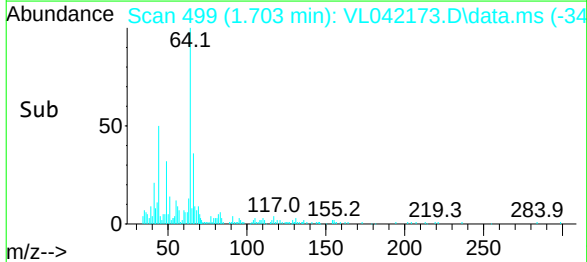
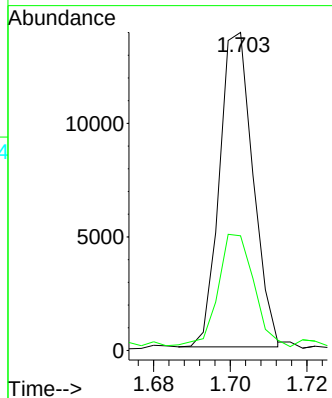
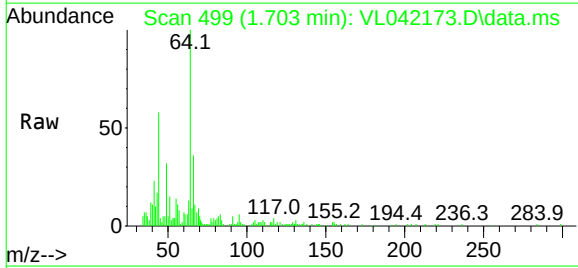
#7
Chloroethane
Concen: 1.844 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 64 Resp: 8413
Ion Ratio Lower Upper
64 100
66 36.1 25.2 37.8

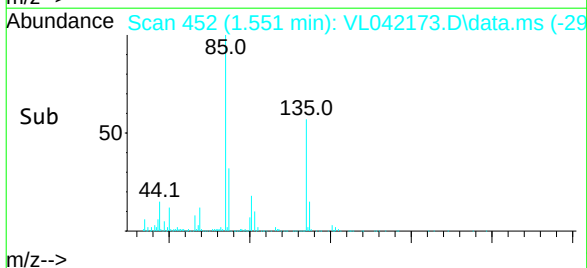
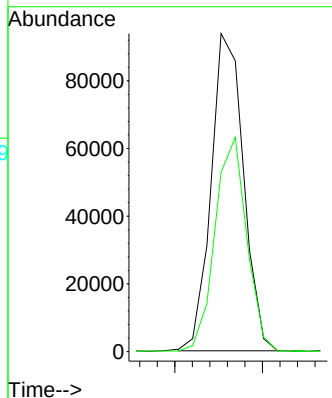
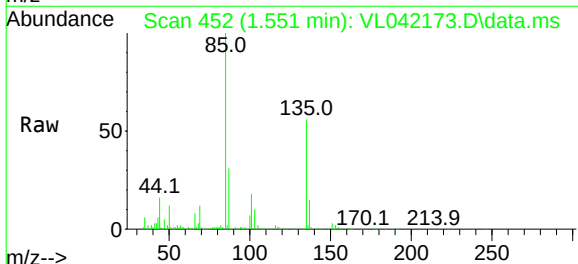
Manual Integrations
APPROVED

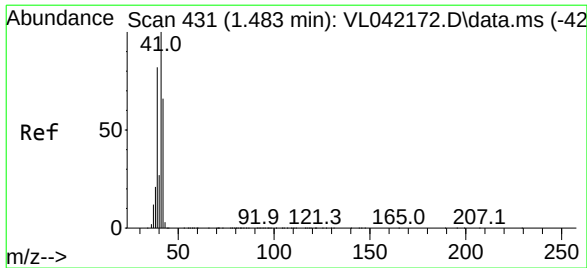
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

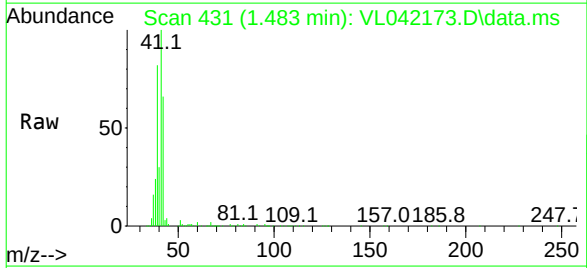
Tgt Ion: 85 Resp: 48008
Ion Ratio Lower Upper
85 100
135 66.8 52.4 78.6





#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

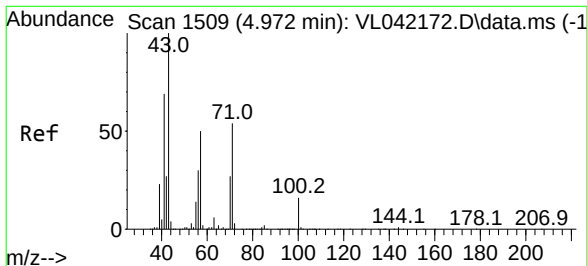
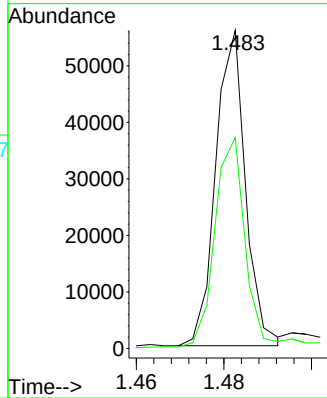
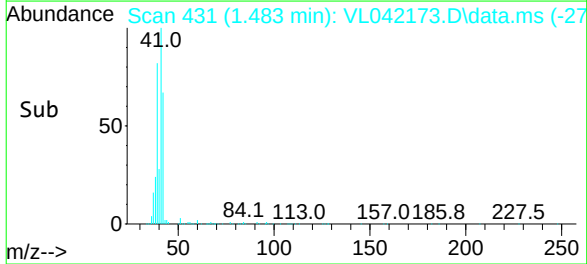
Instrument : MSVOA_L
ClientSampleId : VSTDICC002



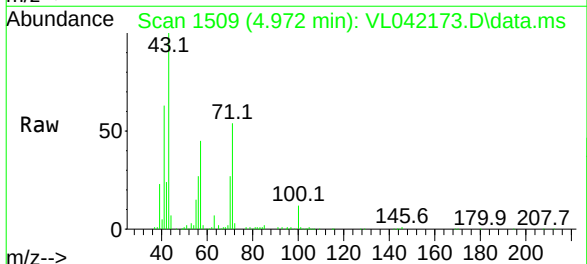
Tgt Ion: 41 Resp: 26295
Ion Ratio Lower Upper
41 100
42 73.9 55.4 83.2

Manual Integrations
APPROVED

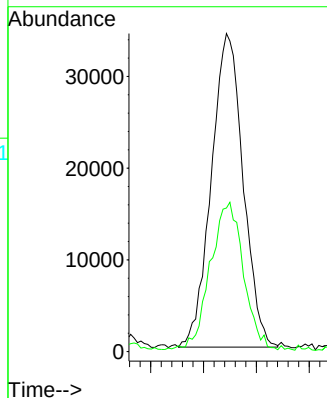
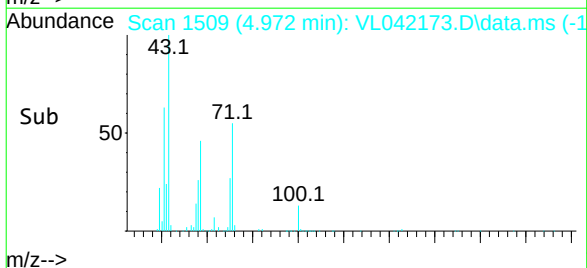
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

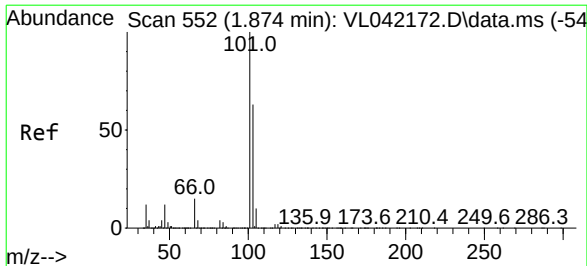


#10
Heptane
Concen: 2.063 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59



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

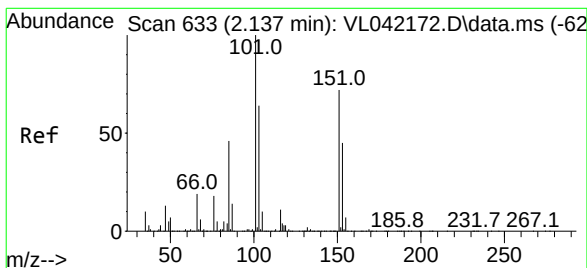
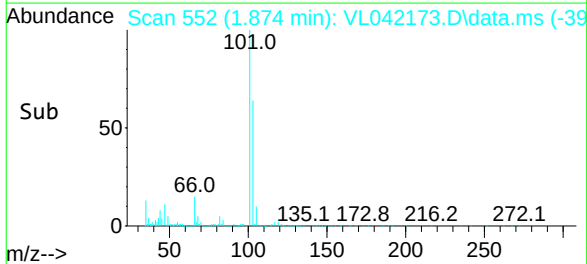
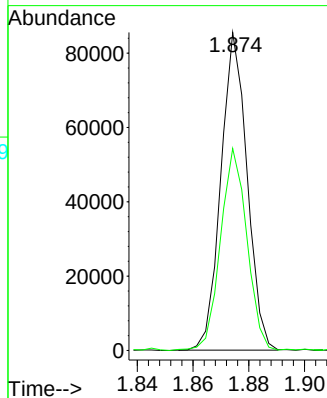
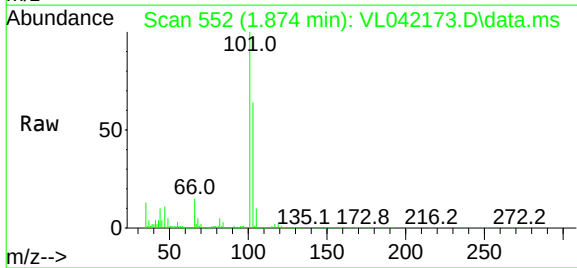
103 63.5 50.2 75.2

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

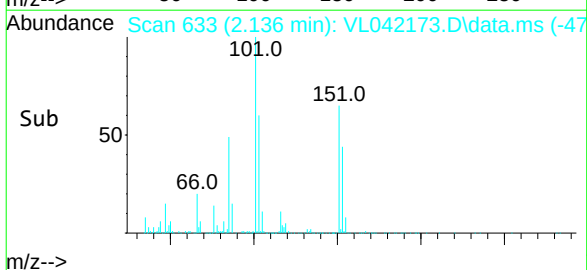
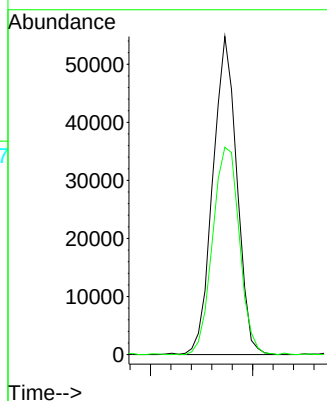
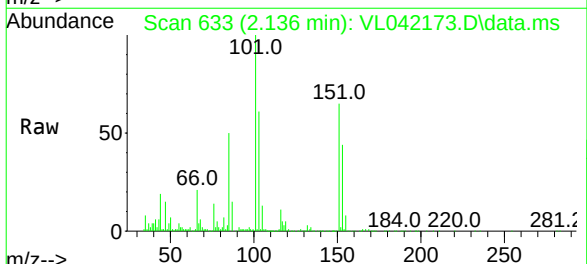
Acq: 27 Mar 2025 08:59

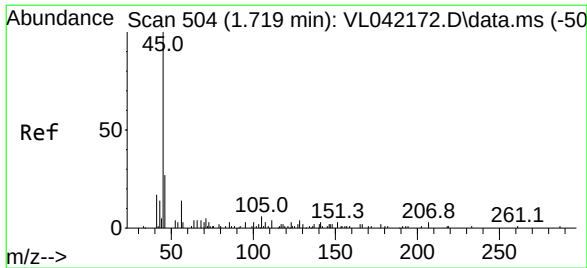
Tgt Ion:101 Resp: 44761

Ion Ratio Lower Upper

101 100

151 73.0 57.1 85.7





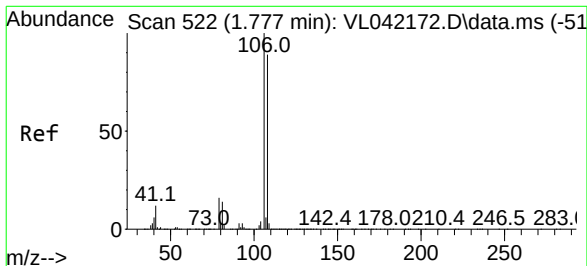
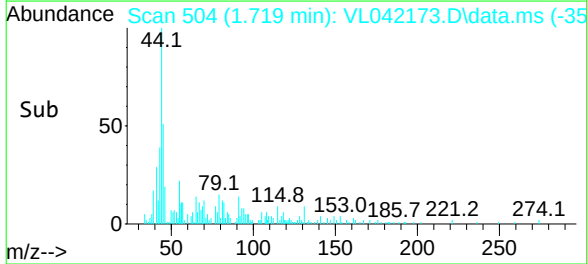
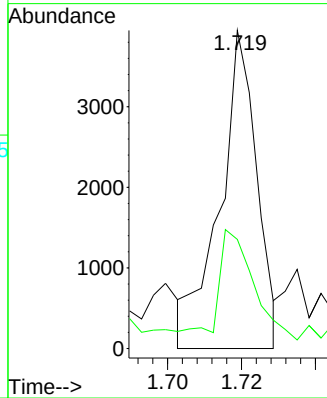
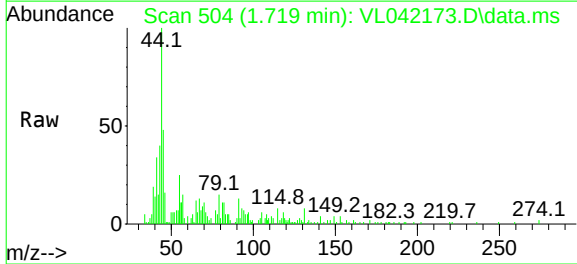
#13
Ethanol
Concen: 2.741 ppbv m
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 45 Resp: 2748
Ion Ratio Lower Upper
45 100
46 56.9 20.2 80.8

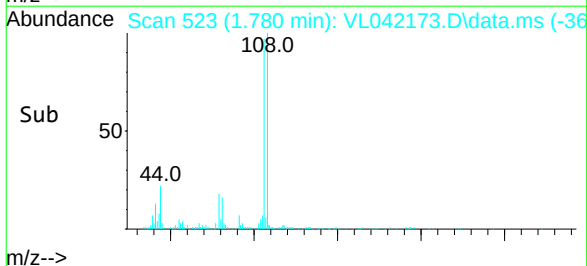
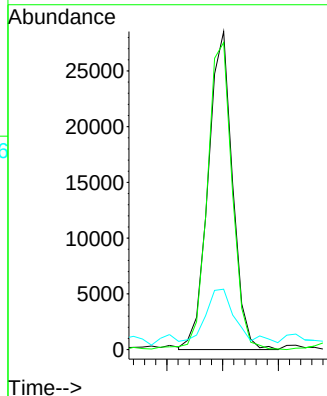
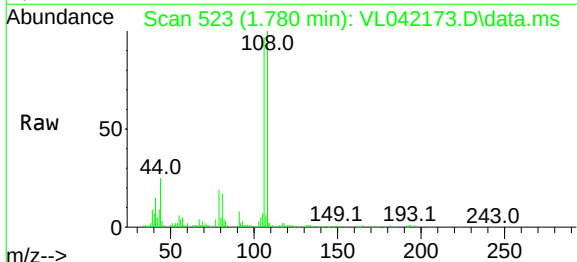
Manual Integrations
APPROVED

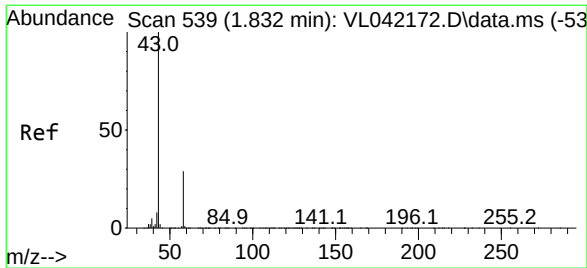
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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#





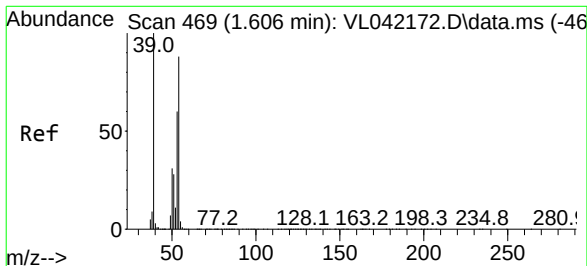
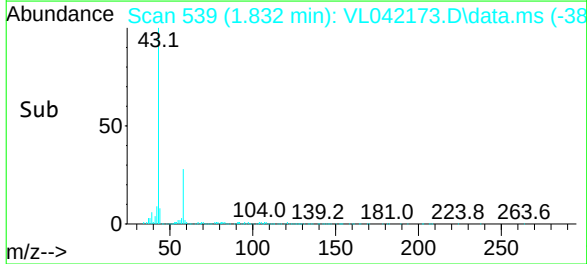
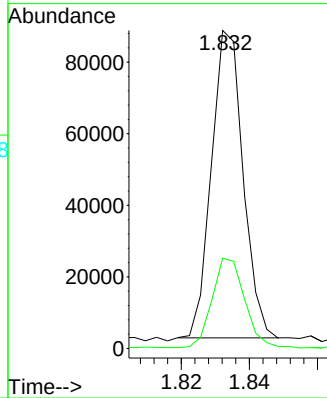
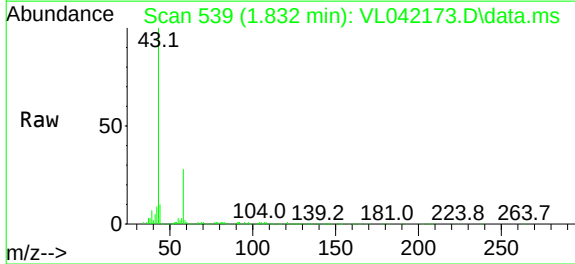
#15
Acetone
Concen: 2.101 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument : MSVOA_L
ClientSampleId : VSTDIC002

Tgt Ion: 43 Resp: 55365
Ion Ratio Lower Upper
43 100
58 31.8 23.2 34.8

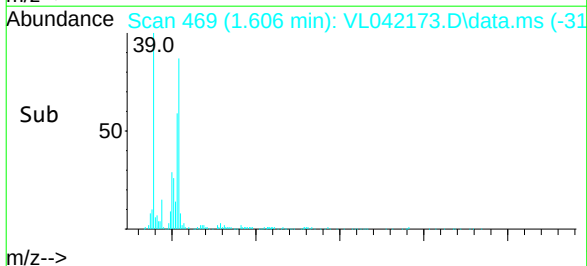
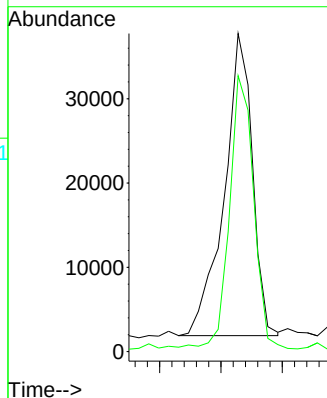
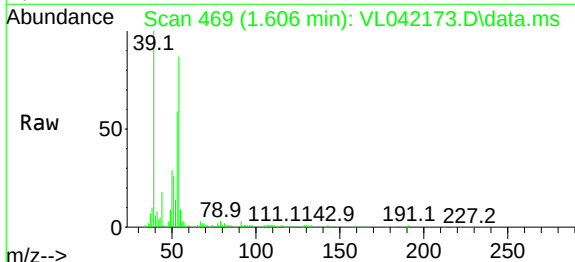
Manual Integrations
APPROVED

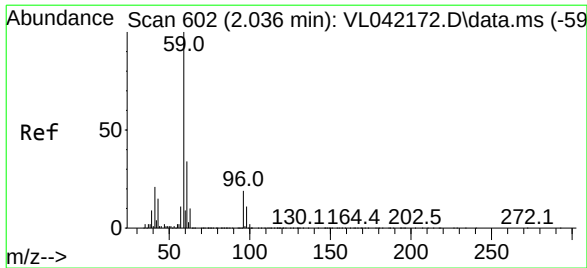
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





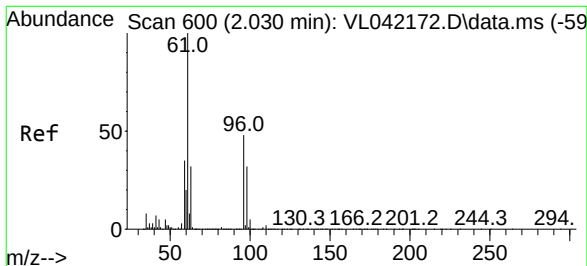
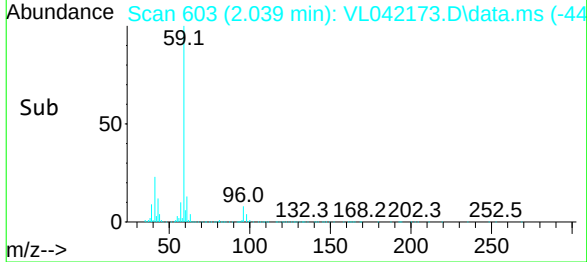
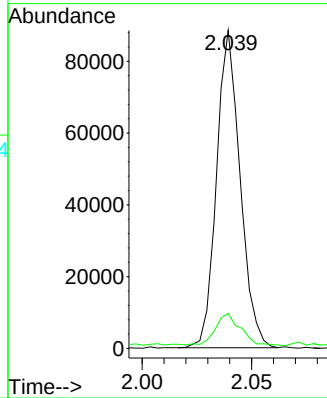
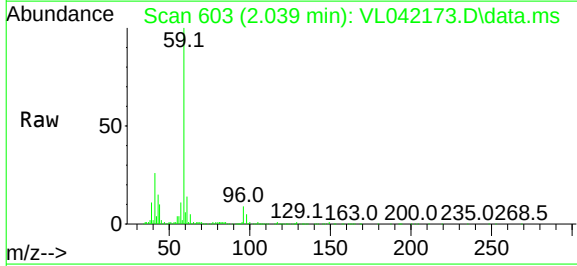
#17
tert-Butyl alcohol
Concen: 2.016 ppbv
RT: 2.039 min Scan# 60
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 59 Resp: 66174
Ion Ratio Lower Upper
59 100
57 11.2 8.9 13.3

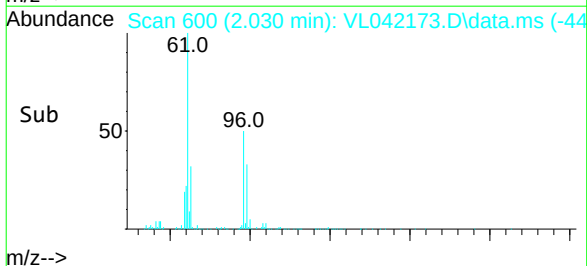
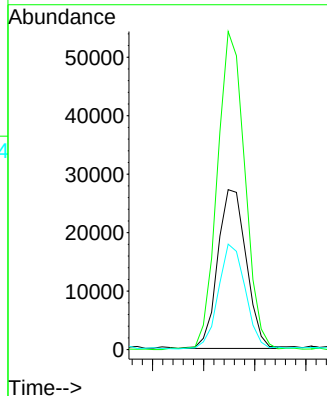
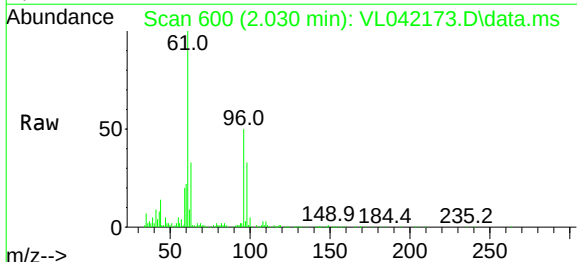
Manual Integrations
APPROVED

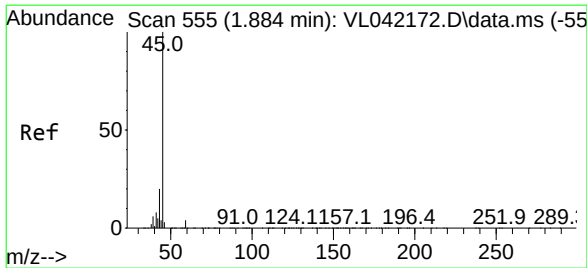
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





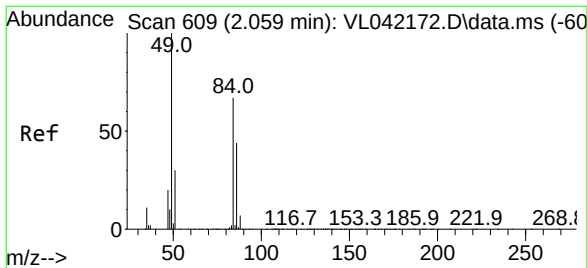
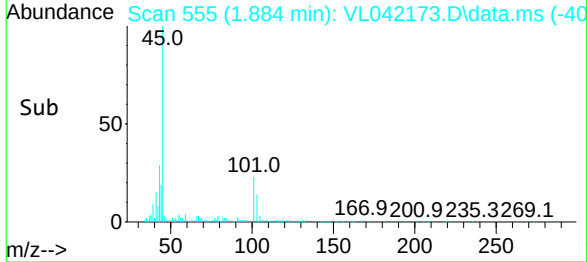
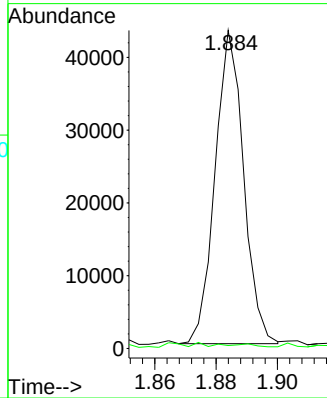
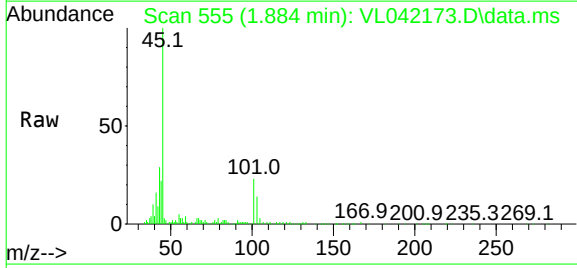
#19
Isopropyl Alcohol
Concen: 1.870 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 45 Resp: 27804
Ion Ratio Lower Upper
45 100
58 3.3 36.9 55.3

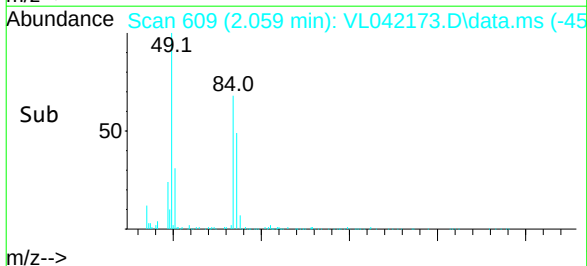
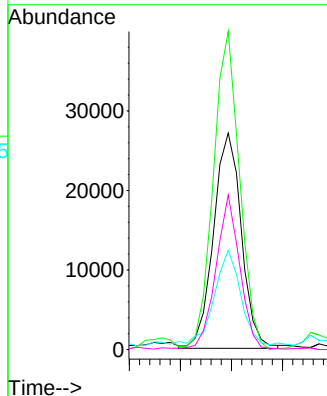
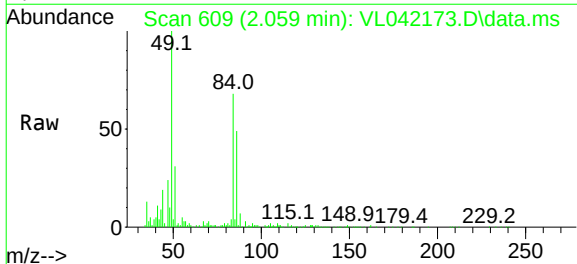
Manual Integrations
APPROVED

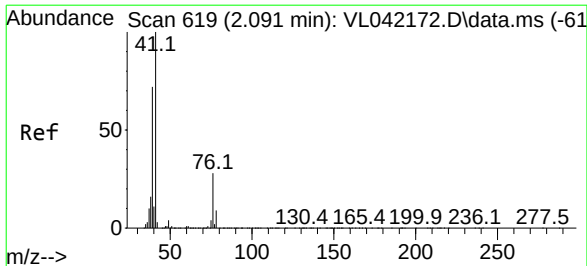
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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 :

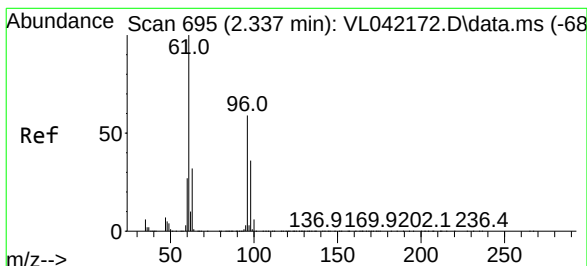
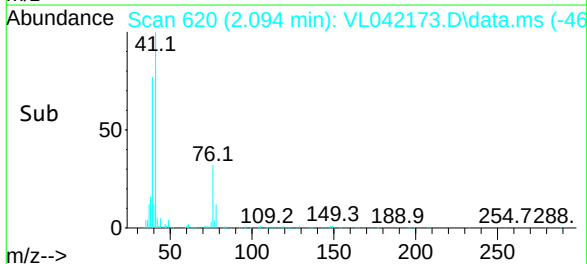
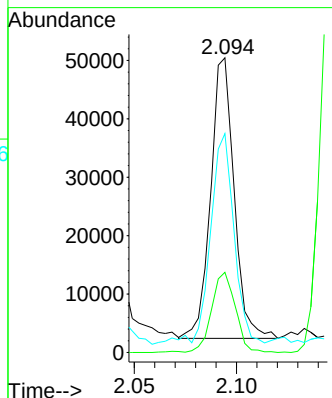
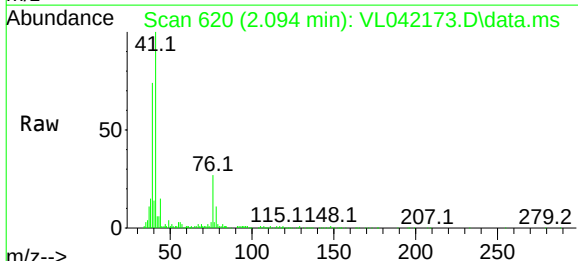
VSTDICC002

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

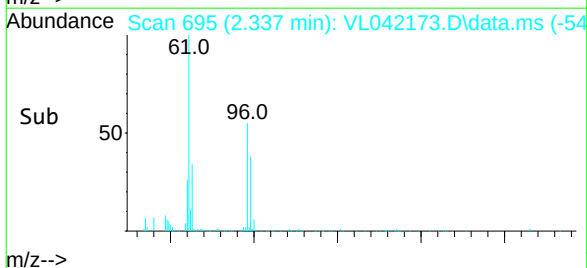
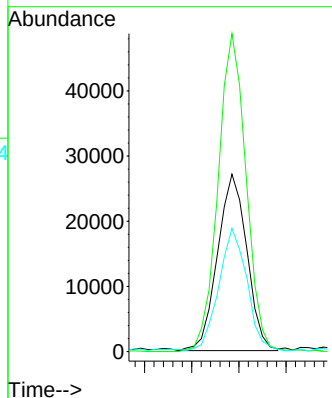
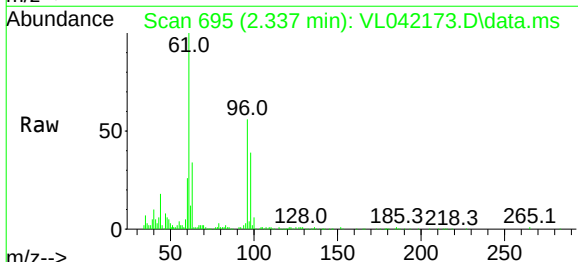
RT: 2.337 min Scan# 695

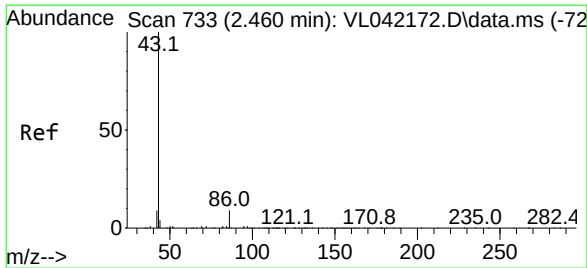
Delta R.T. -0.000 min

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 :

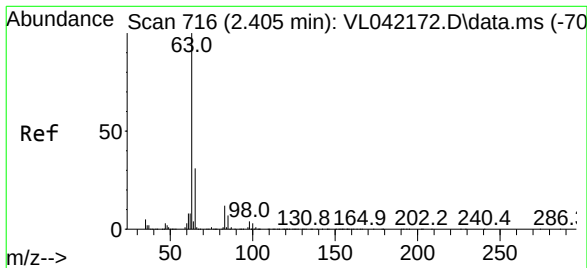
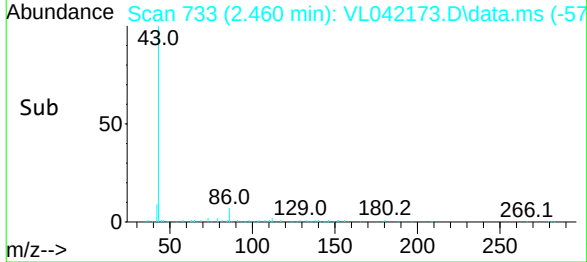
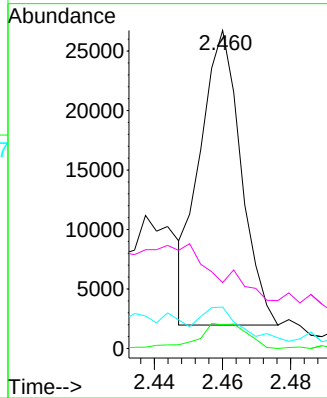
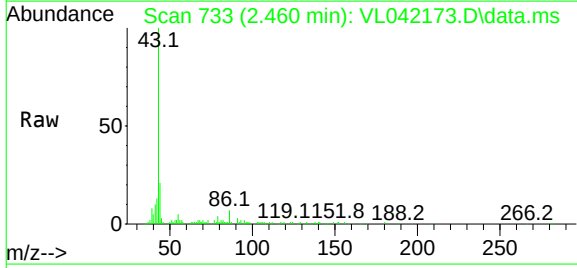
VSTDICC002

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

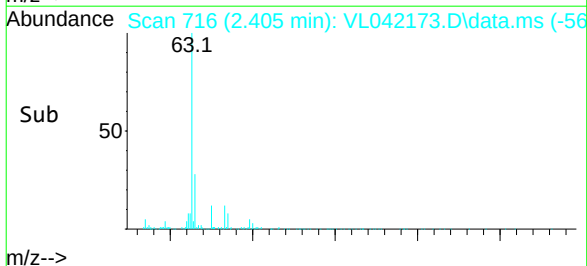
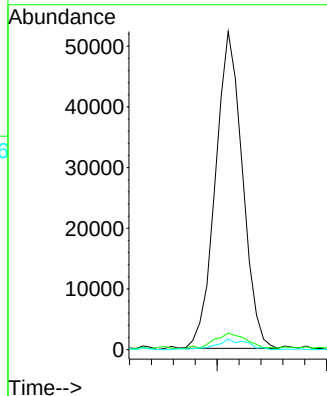
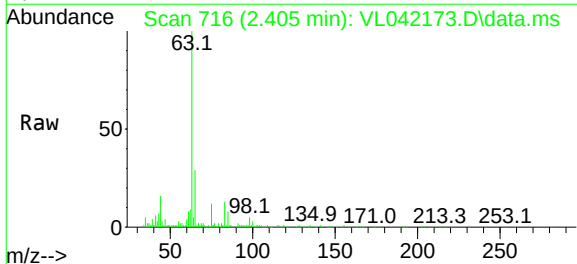
APPROVED

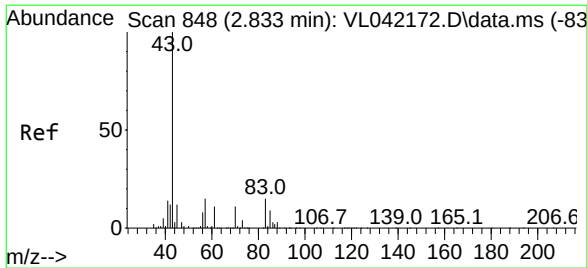
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#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

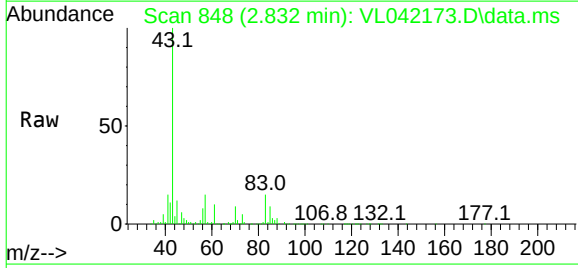
Tgt Ion:	63	Resp:	44740
Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.3	6.8
100	3.3	1.6	4.7





#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

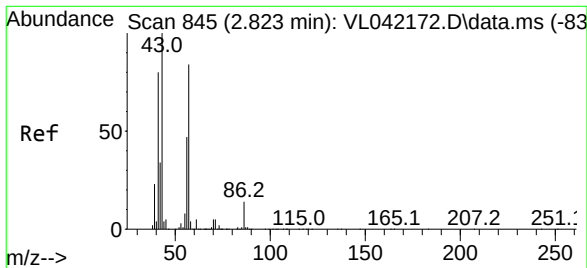
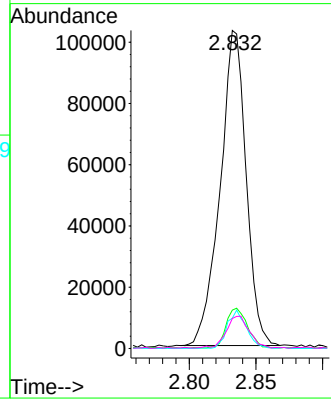
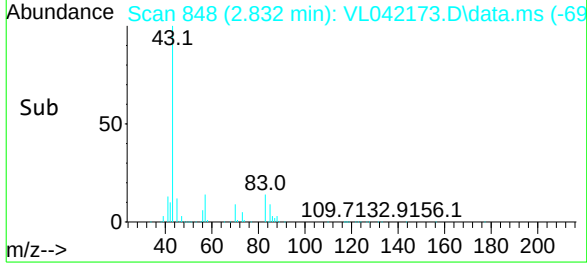
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



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

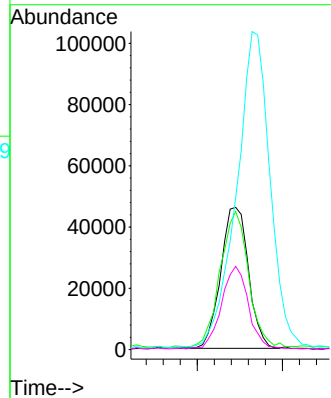
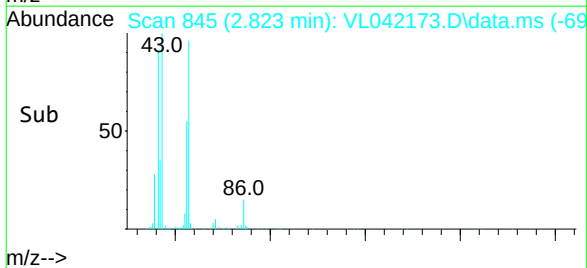
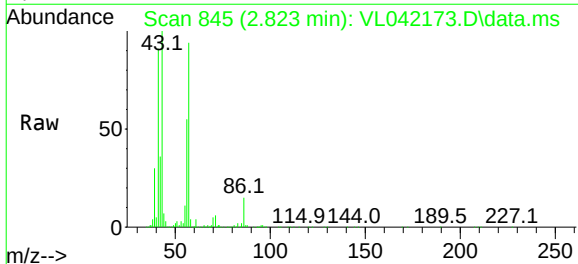
Manual Integrations
APPROVED

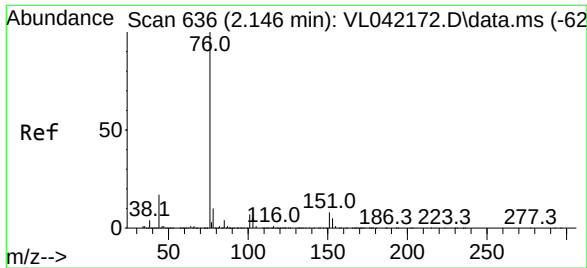
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





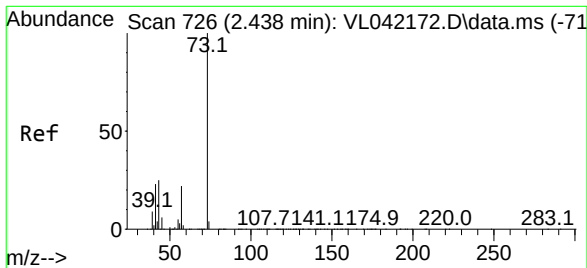
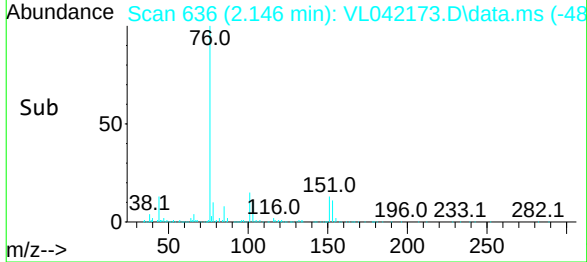
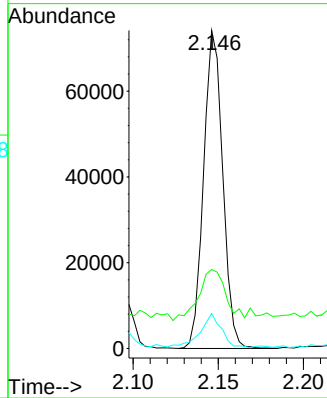
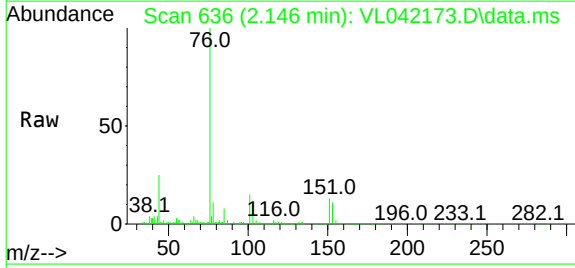
#27
Carbon Disulfide
Concen: 2.047 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

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

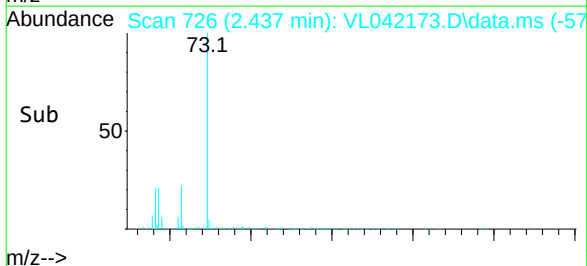
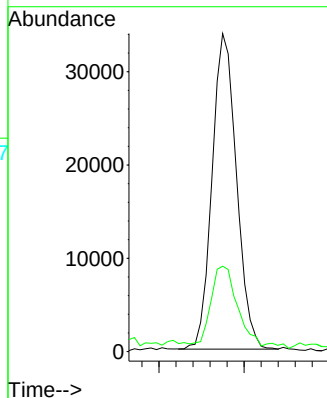
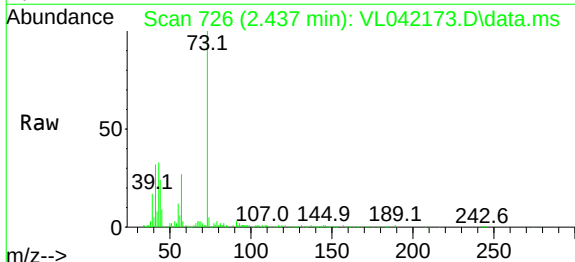
Manual Integrations
APPROVED

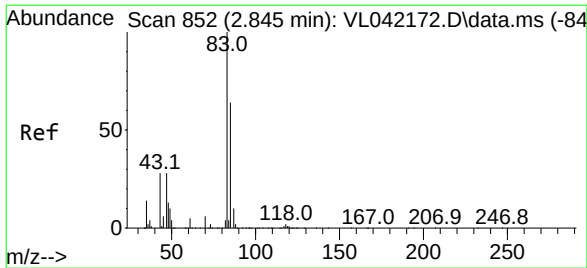
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





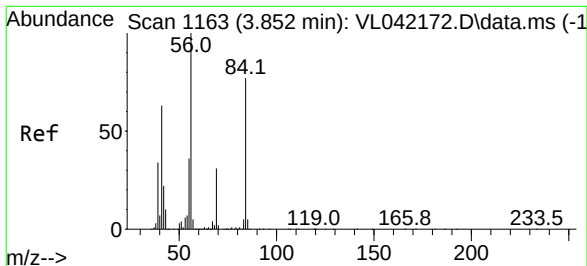
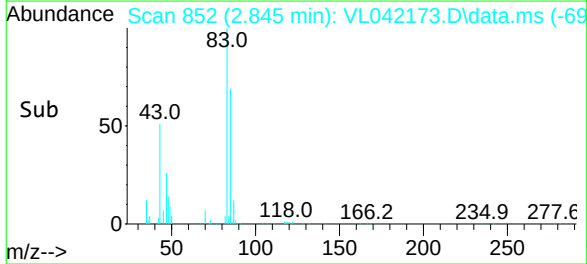
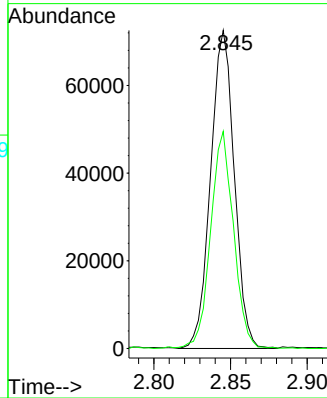
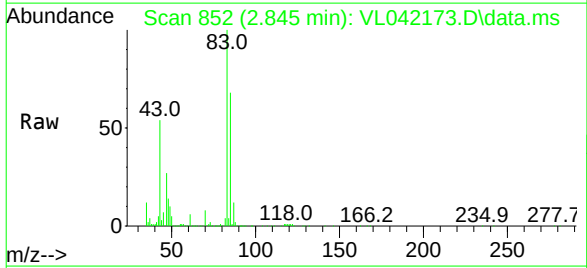
#29
Chloroform
Concen: 2.019 ppbv
RT: 2.845 min Scan# 852
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument : MSVOA_L
ClientSampleId : VSTDIC002

Tgt Ion: 83 Resp: 78043
Ion Ratio Lower Upper
83 100
85 68.2 51.4 77.2

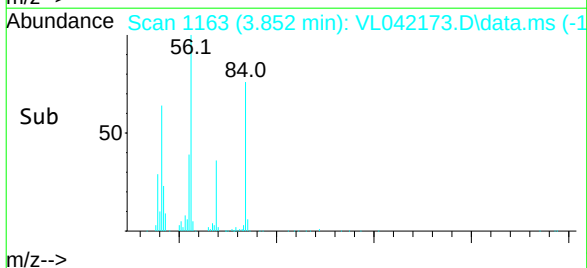
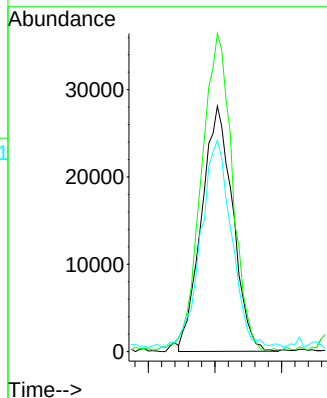
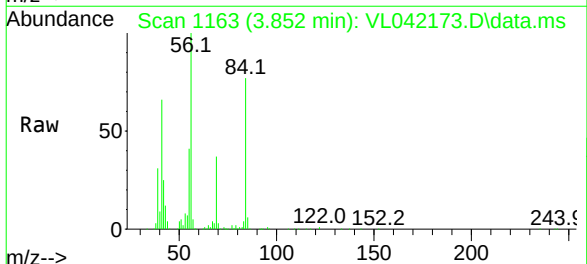
Manual Integrations
APPROVED

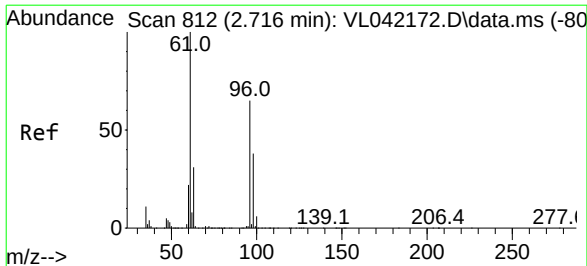
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





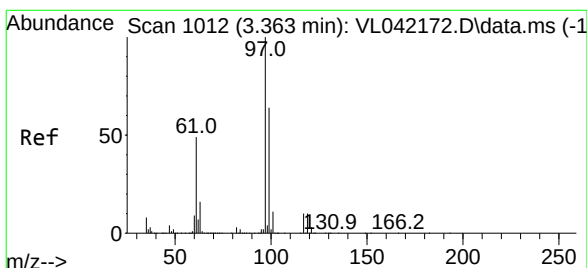
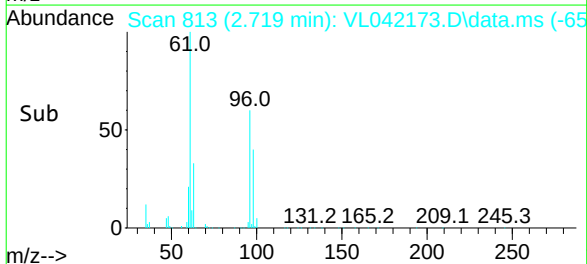
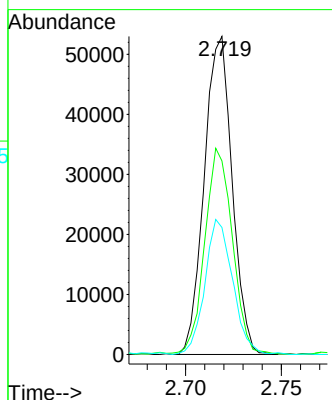
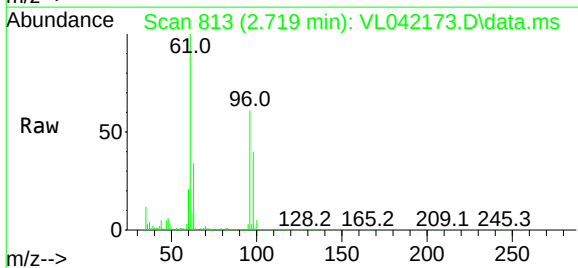
#31
 cis-1,2-Dichloroethene
 Concen: 2.003 ppbv
 RT: 2.719 min Scan# 812
 Delta R.T. 0.003 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

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

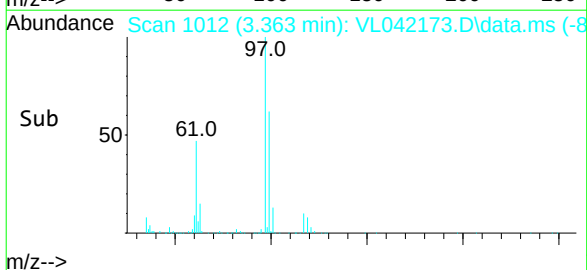
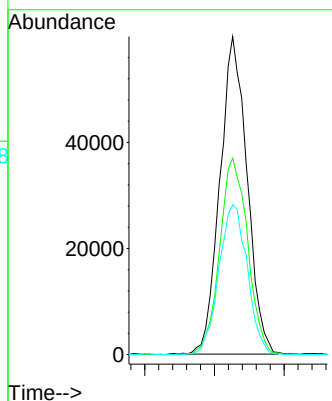
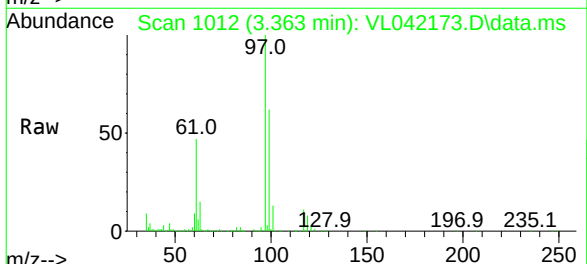
Manual Integrations
 APPROVED

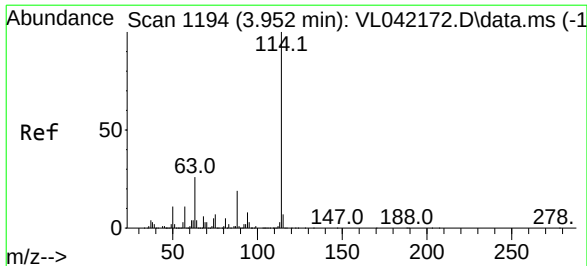
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#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

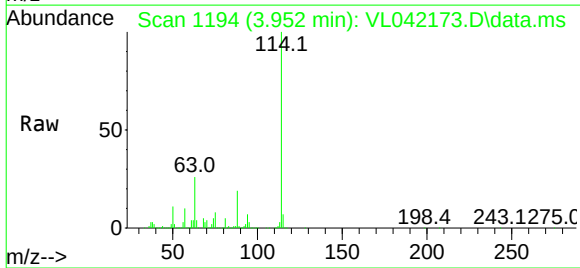
Tgt Ion:	97	Resp:	81070
Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.5	77.3
61	49.3	38.7	58.1





#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

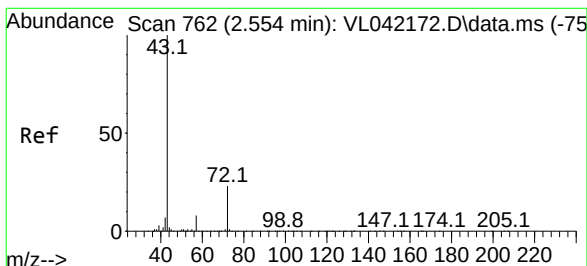
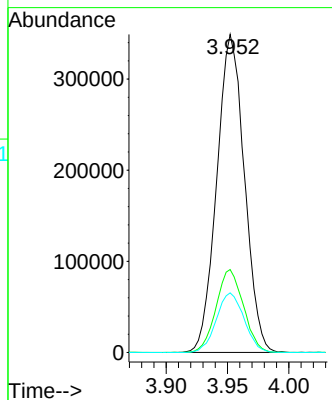
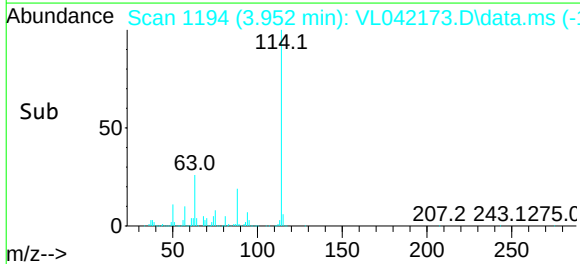
Instrument : MSVOA_L
ClientSampleId : VSTDICC002



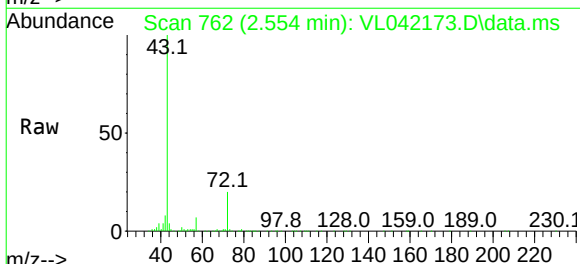
Tgt Ion: 114 Resp: 546394
Ion Ratio Lower Upper
114 100
63 25.9 20.7 31.1
88 18.9 15.0 22.4

Manual Integrations
APPROVED

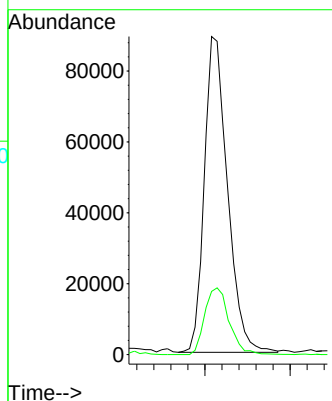
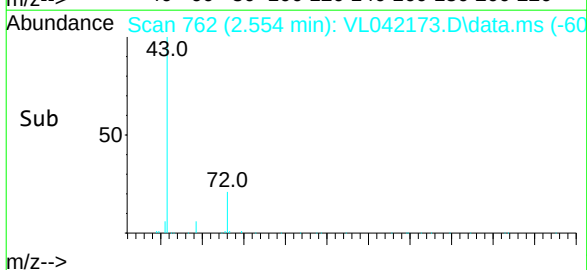
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

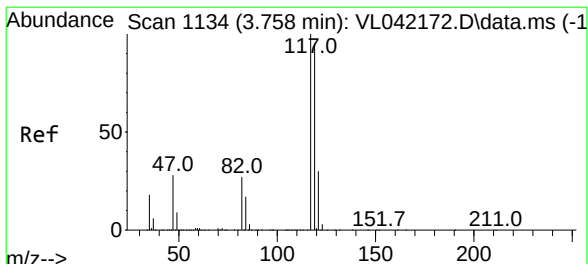


#34
2-Butanone
Concen: 2.124 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59



Tgt Ion: 43 Resp: 84157
Ion Ratio Lower Upper
43 100
72 22.4 18.2 27.2





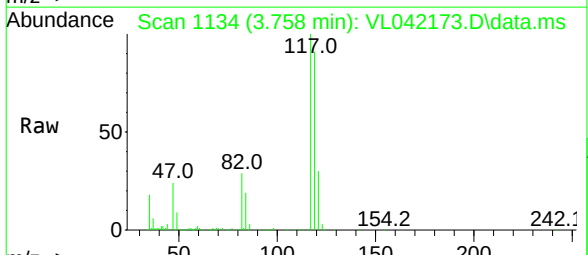
#35
Carbon Tetrachloride
Concen: 1.944 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

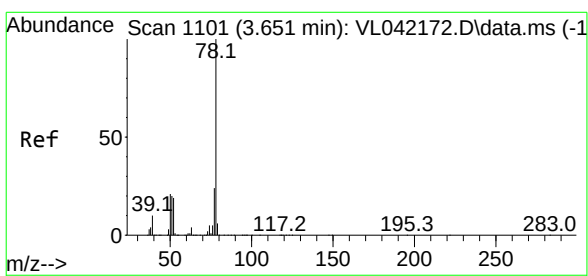
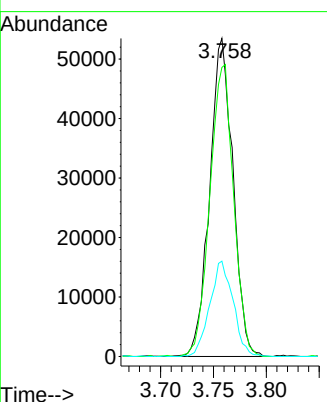
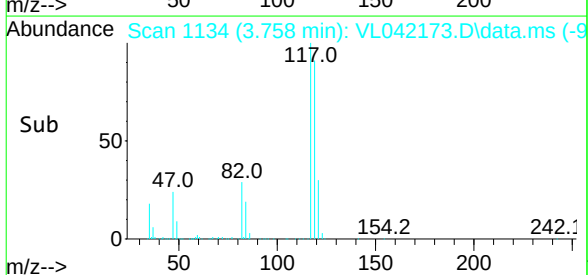


Tgt Ion: 117 Resp: 81735

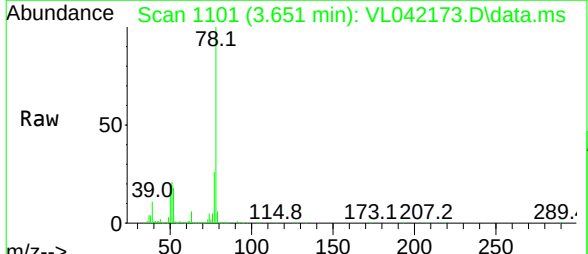
Ion	Ratio	Lower	Upper
117	100		
119	90.8	76.2	114.2
121	30.0	24.2	36.4

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025

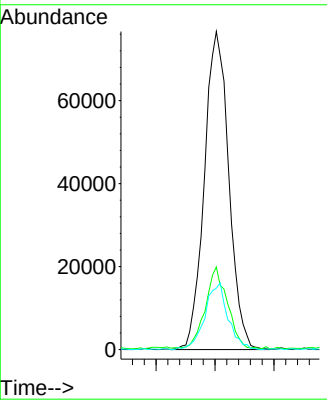
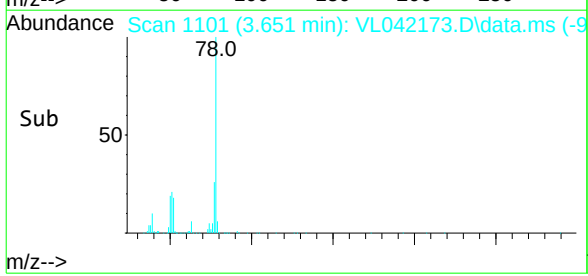


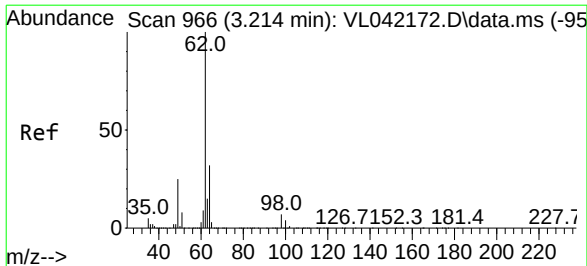
#36
Benzene
Concen: 2.044 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59



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





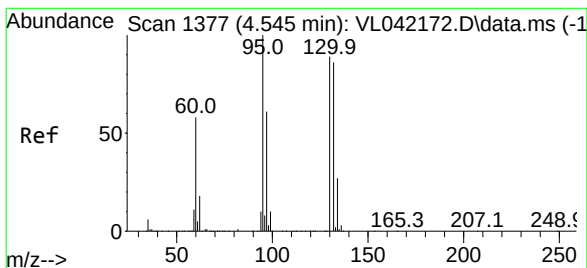
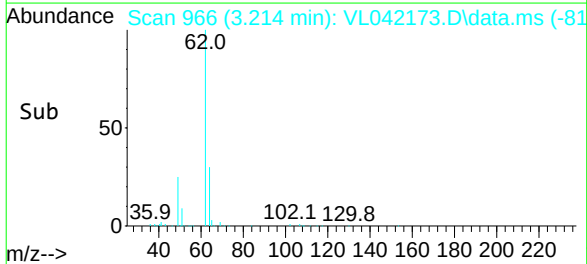
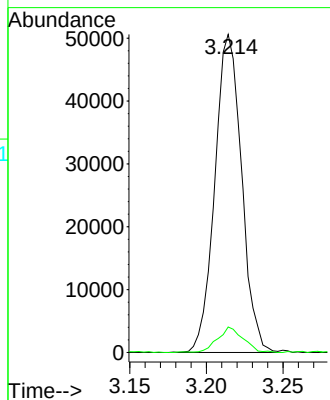
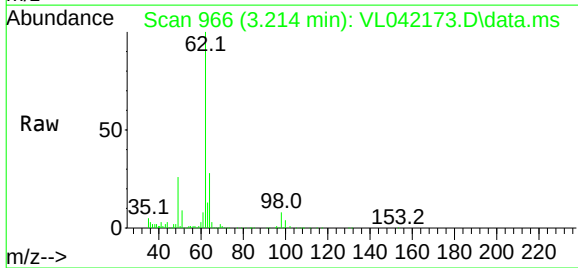
#37
1,2-Dichloroethane
Concen: 1.982 ppbv
RT: 3.214 min Scan# 966
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument : MSVOA_L
ClientSampleId : VSTDICC002

Tgt Ion: 62 Resp: 61476
Ion Ratio Lower Upper
62 100
98 7.7 5.4 8.2

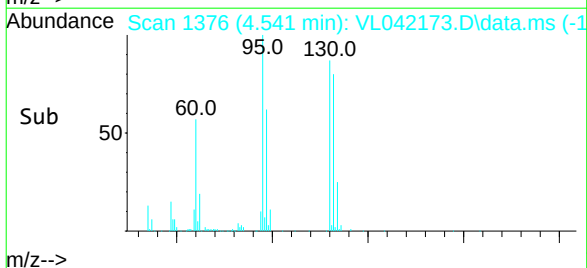
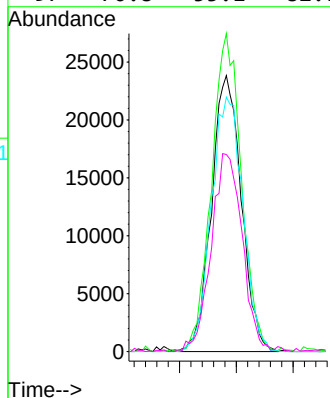
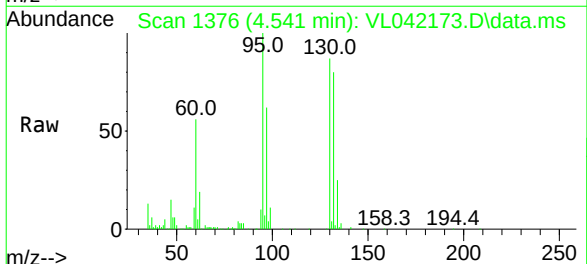
Manual Integrations
APPROVED

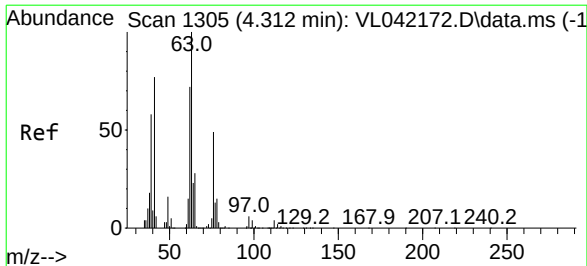
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

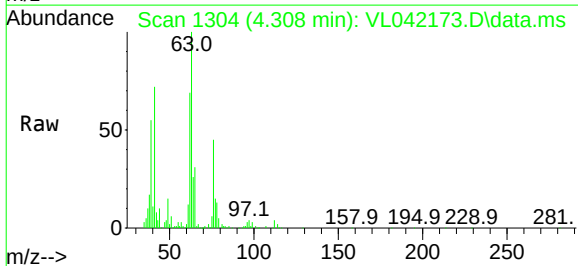
Tgt Ion:130 Resp: 43501
Ion Ratio Lower Upper
130 100
95 114.8 89.8 134.8
132 92.2 77.4 116.2
97 70.8 55.1 82.7





#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

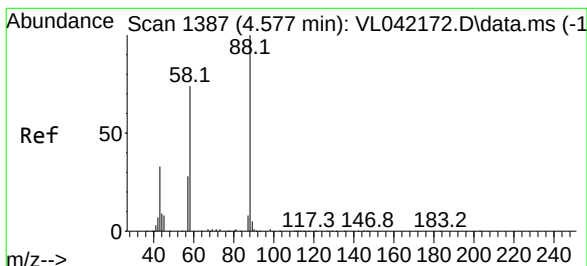
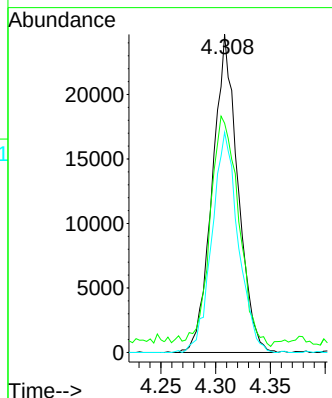
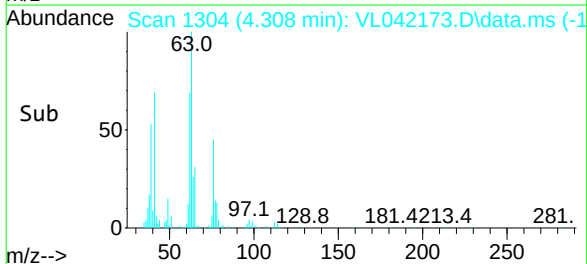
Instrument : MSVOA_L
ClientSampleId : VSTDICC002



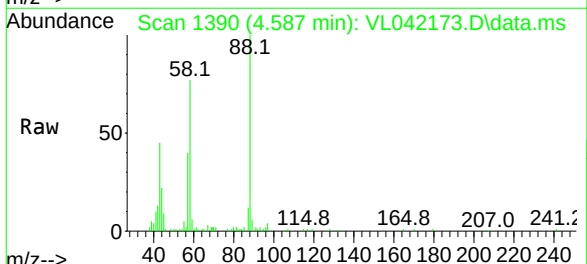
Tgt Ion: 63 Resp: 39912
Ion Ratio Lower Upper
63 100
41 68.6 61.7 92.5
62 69.2 57.6 86.4

Manual Integrations
APPROVED

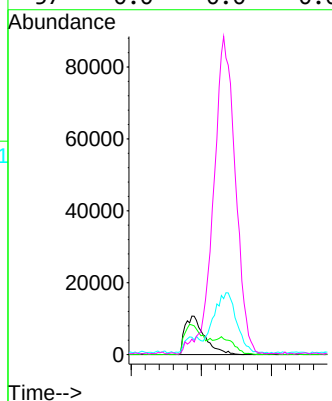
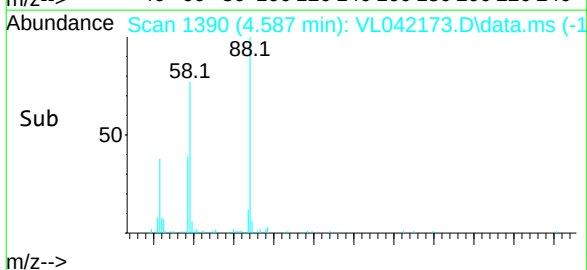
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

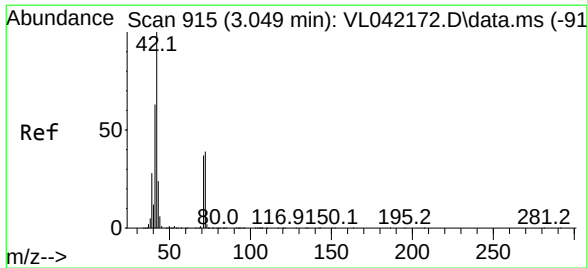


#40
1,4-Dioxane
Concen: 2.040 ppbv m
RT: 4.587 min Scan# 1390
Delta R.T. 0.009 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59



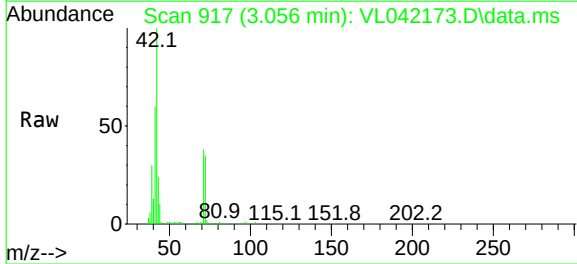
Tgt Ion: 88 Resp: 20884
Ion Ratio Lower Upper
88 100
58 119.5 62.7 94.1#
43 0.0 23.0 34.4#
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 2.097 ppbv
RT: 3.056 min Scan# 915
Delta R.T. 0.006 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

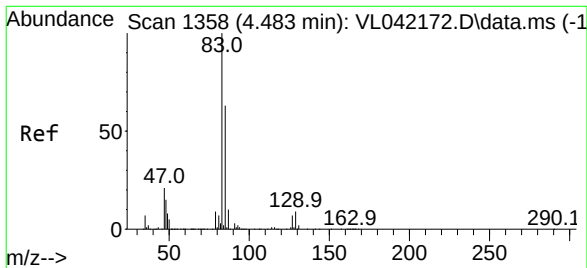
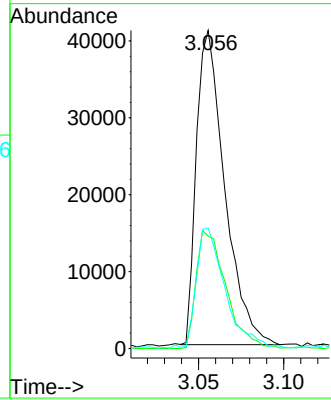
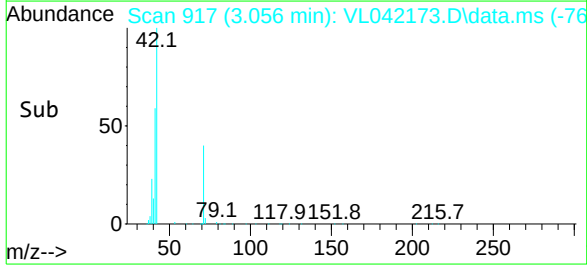
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



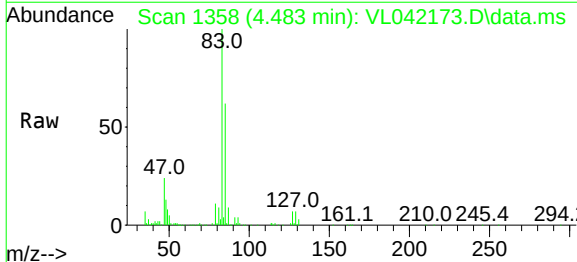
Tgt Ion: 42 Resp: 47262
Ion Ratio Lower Upper
42 100
72 39.6 31.4 47.0
71 39.0 30.2 45.4

Manual Integrations
APPROVED

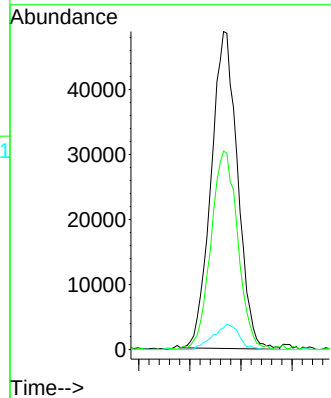
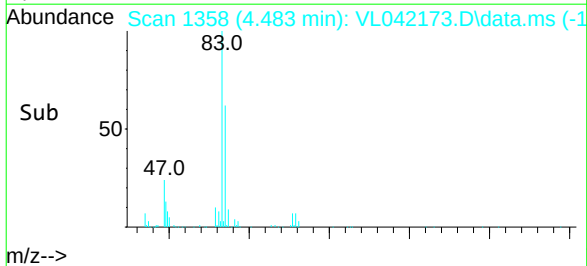
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

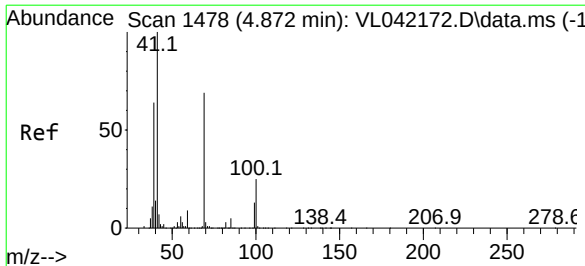


#42
Bromodichloromethane
Concen: 2.050 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59



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





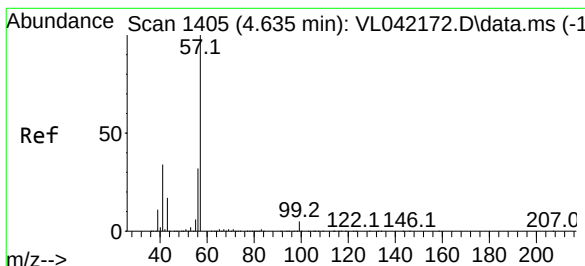
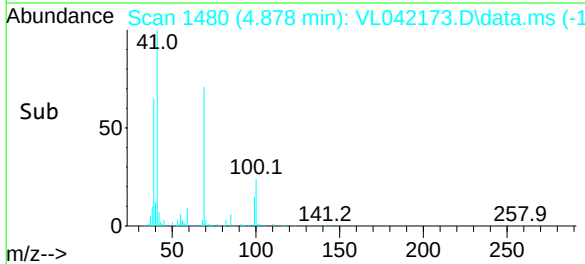
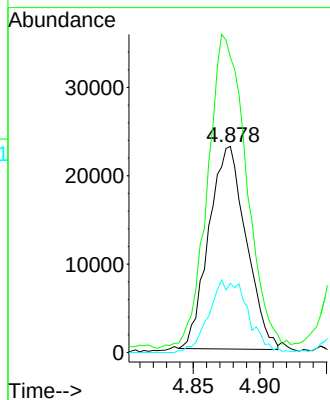
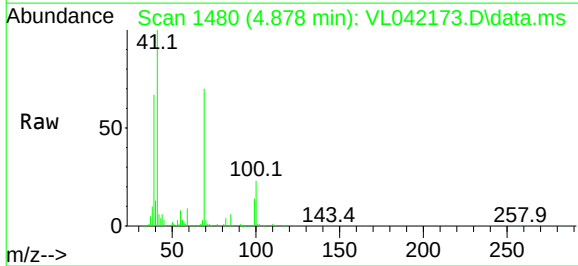
#43
Methyl Methacrylate
Concen: 1.952 ppbv
RT: 4.878 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

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

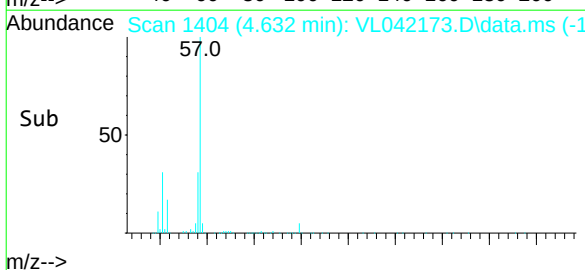
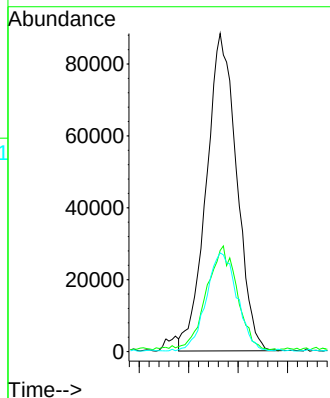
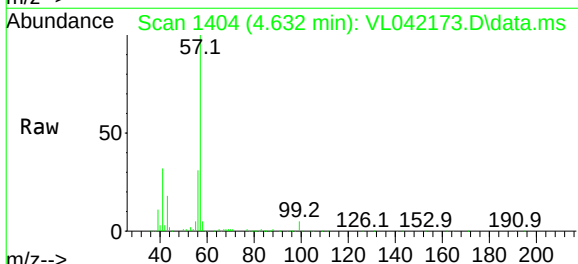
Manual Integrations
APPROVED

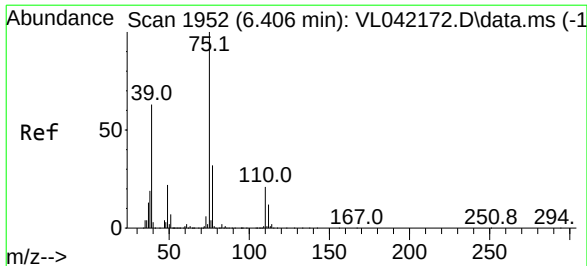
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

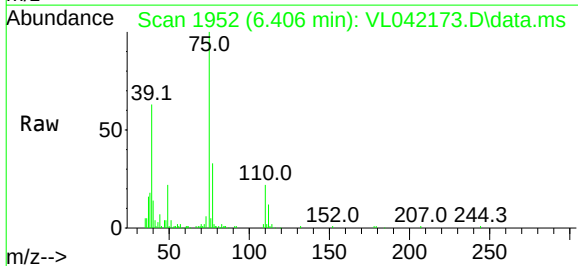
Tgt Ion: 57 Resp: 188282
Ion Ratio Lower Upper
57 100
41 33.8 26.8 40.2
56 31.8 25.6 38.4





#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

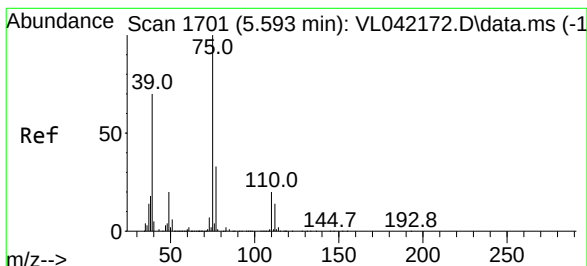
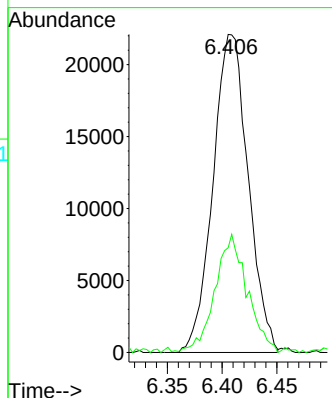
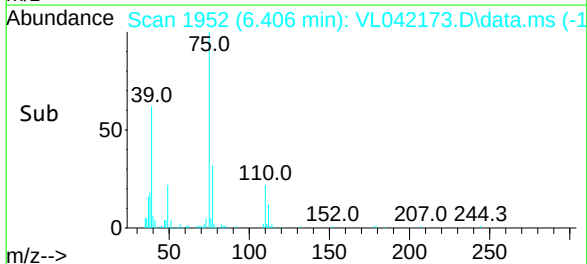
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 75 Resp: 49461
Ion Ratio Lower Upper
75 100
77 32.9 26.0 39.0

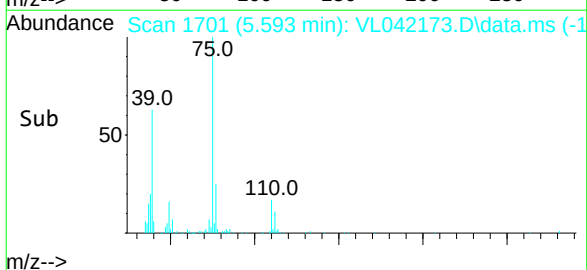
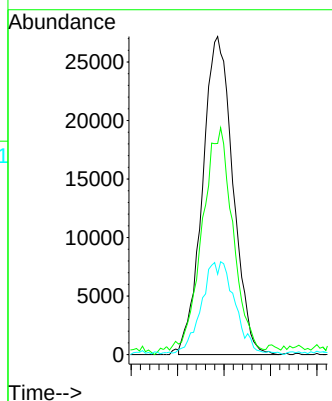
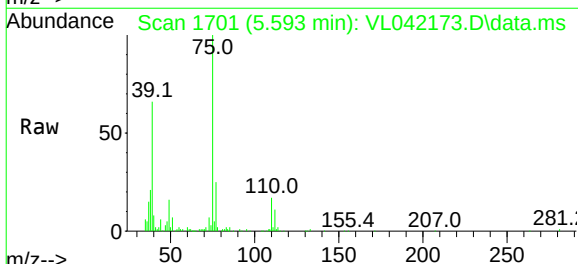
Manual Integrations
APPROVED

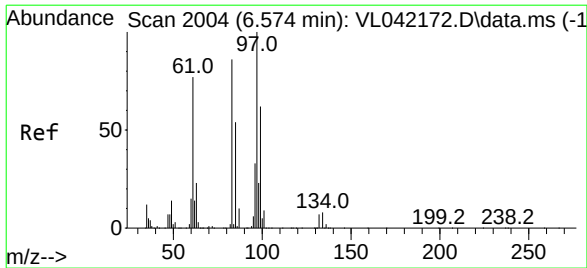
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

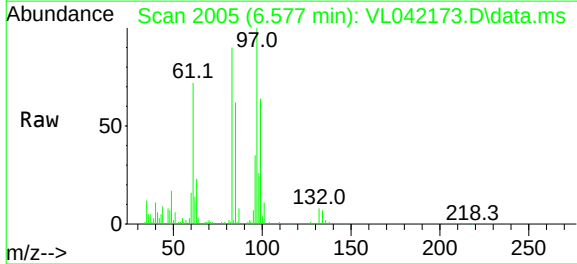
Tgt Ion: 75 Resp: 61829
Ion Ratio Lower Upper
75 100
39 64.4 55.8 83.6
77 24.5 26.0 39.0#





#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

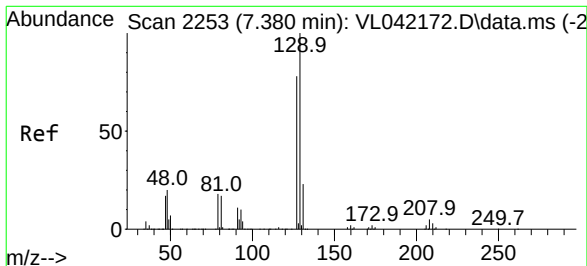
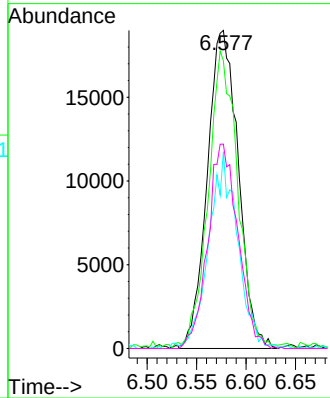
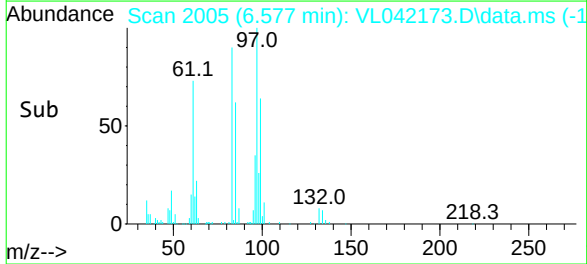
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt 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

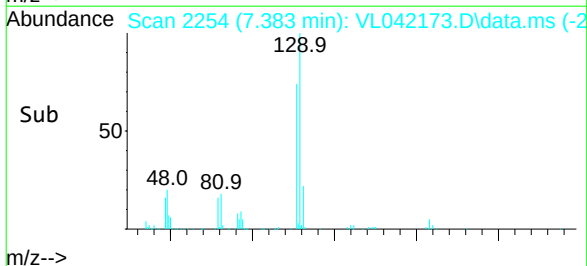
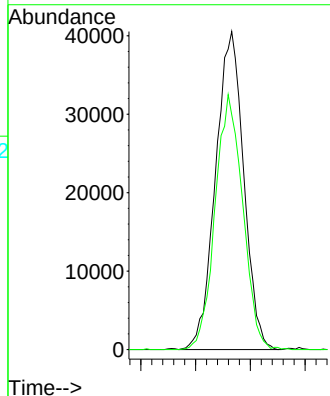
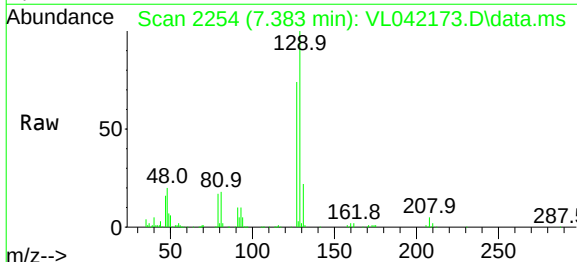
Manual Integrations
APPROVED

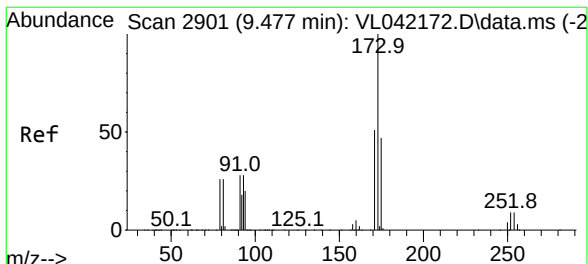
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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	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

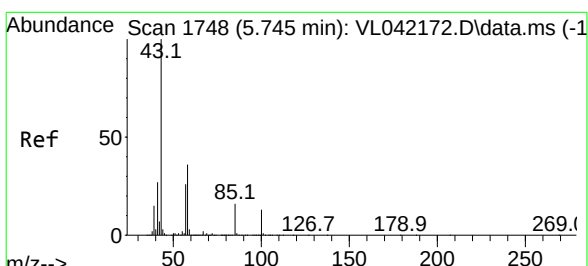
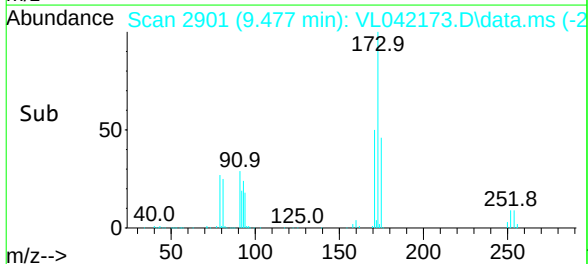
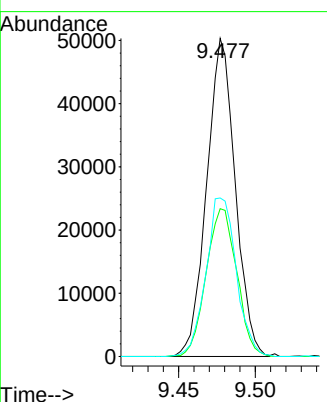
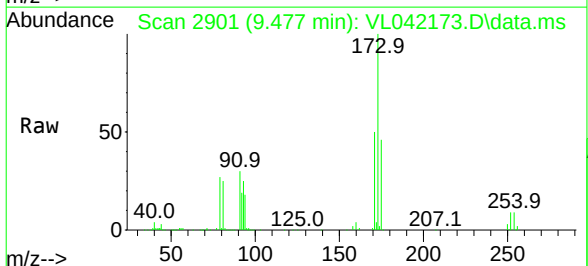
ClientSampleId :

VSTDICC002

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

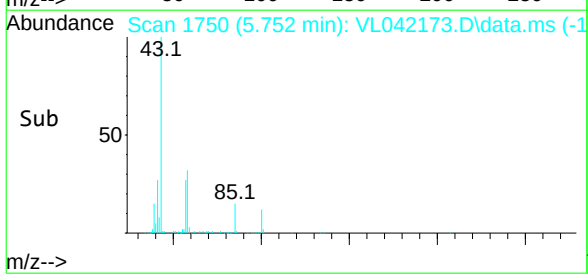
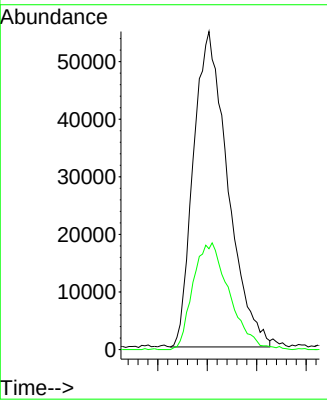
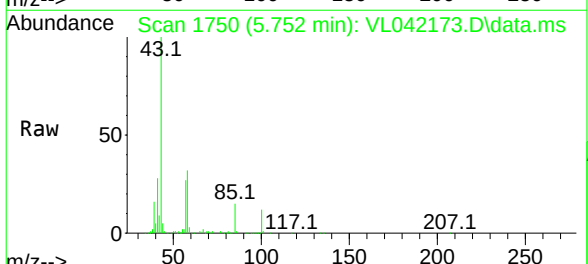
Manual Integrations
 APPROVED

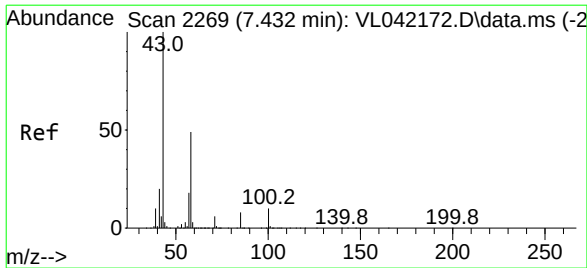
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#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





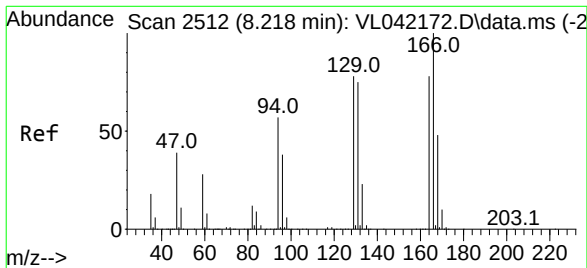
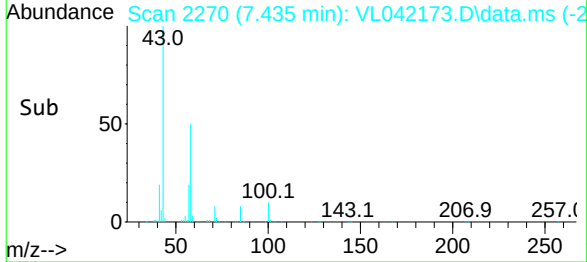
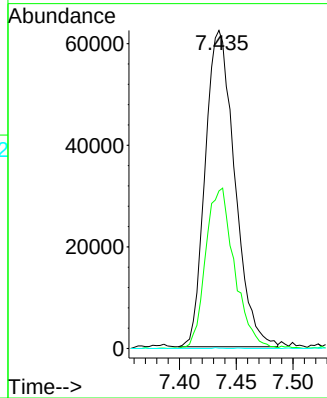
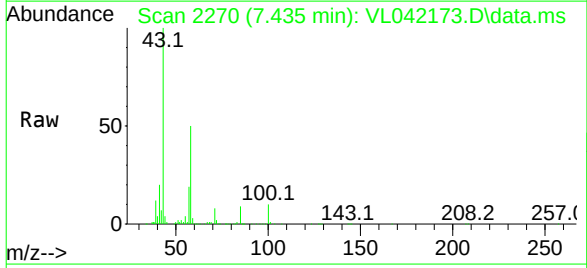
#51
2-Hexanone
Concen: 2.162 ppbv
RT: 7.435 min Scan# 2269
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

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#

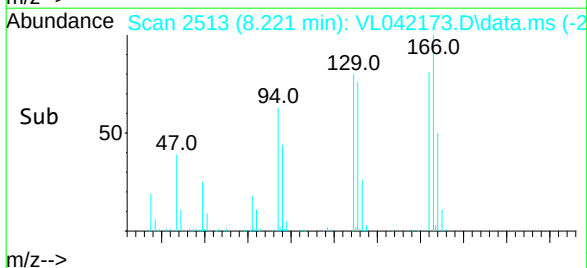
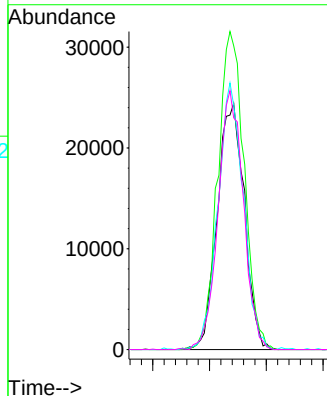
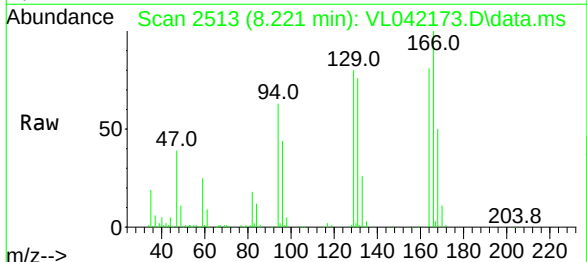
Manual Integrations
APPROVED

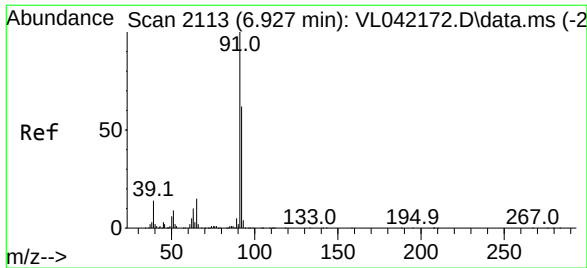
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

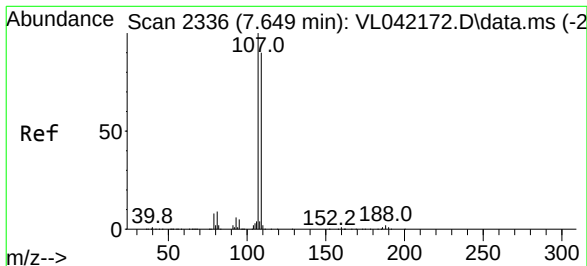
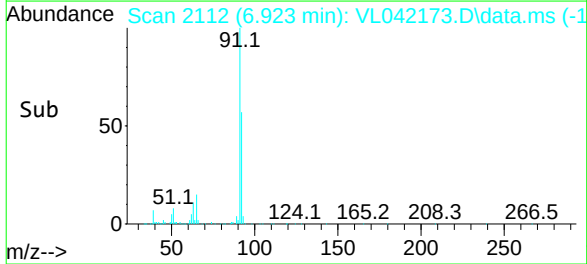
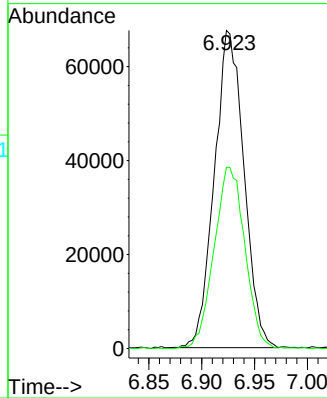
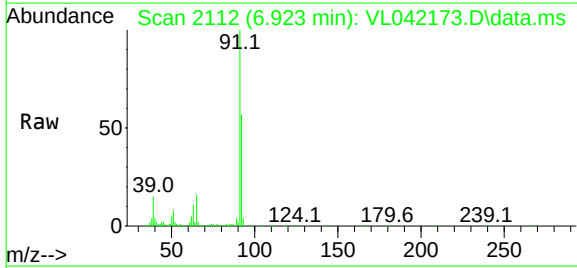
92 59.6 48.4 72.6

Manual Integrations

APPROVED

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

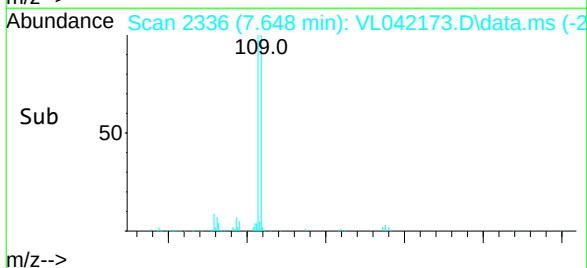
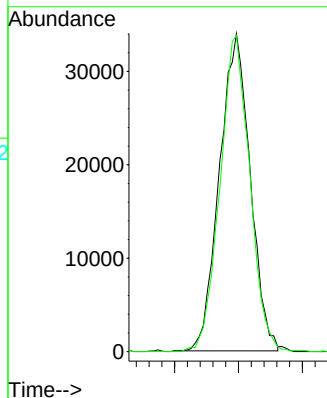
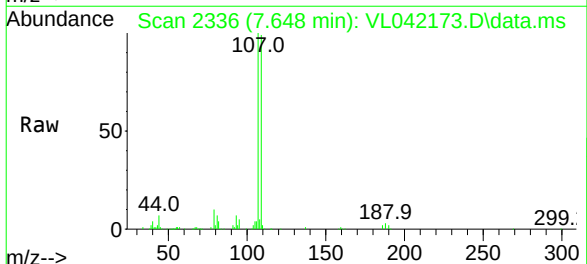
Acq: 27 Mar 2025 08:59

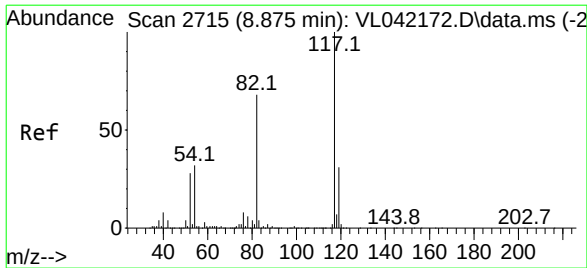
Tgt Ion:107 Resp: 56799

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 :

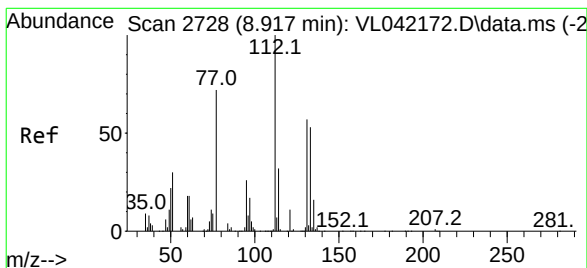
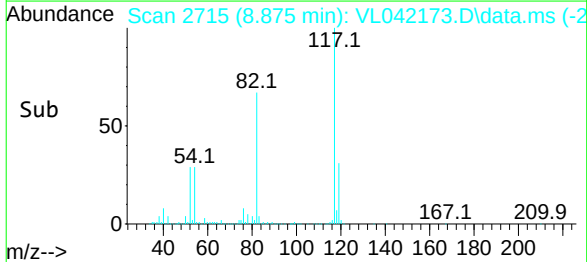
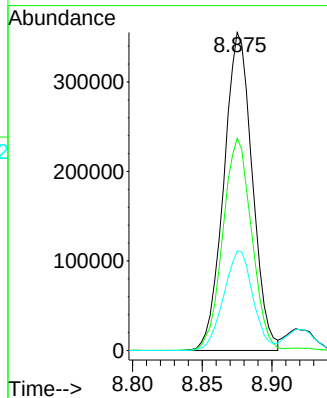
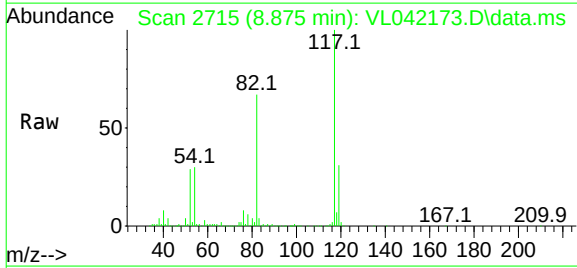
VSTDIC002

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

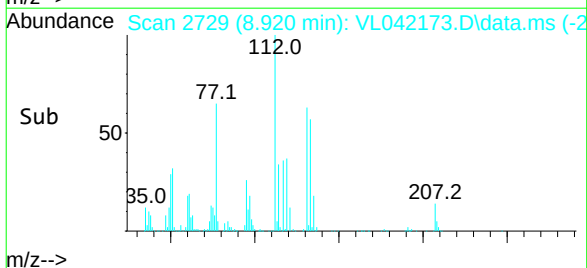
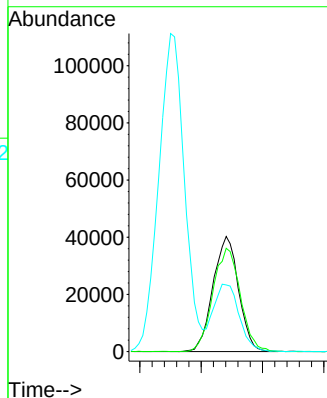
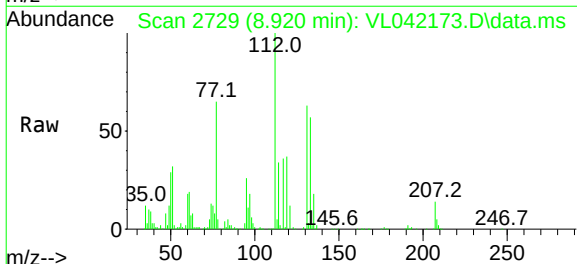
RT: 8.920 min Scan# 2729

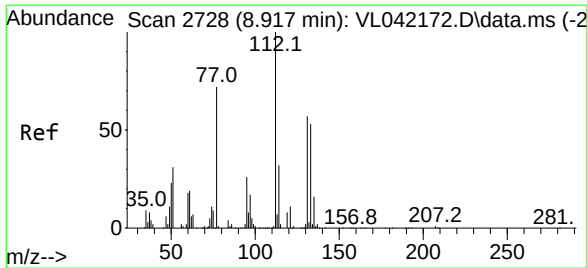
Delta R.T. 0.003 min

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 :

VSTDICC002

Tgt Ion: 112 Resp: 100308

Ion Ratio Lower Upper

112 100

77 68.8 58.2 87.2

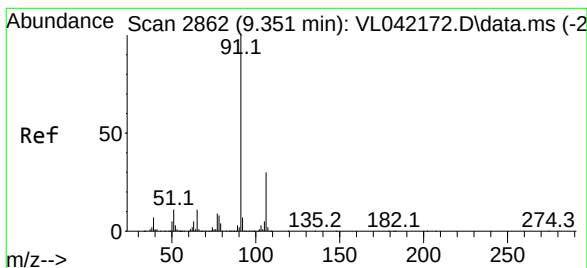
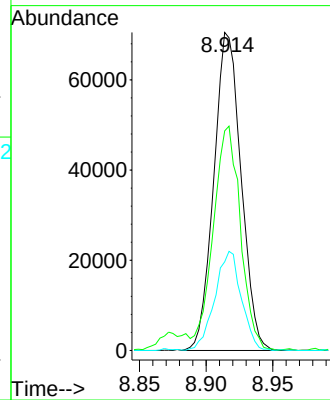
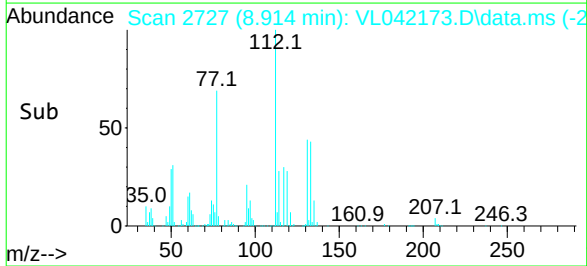
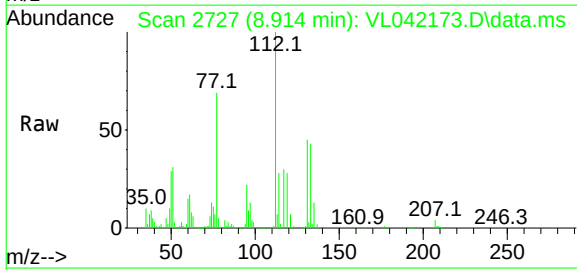
114 27.8 29.1 35.5#

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

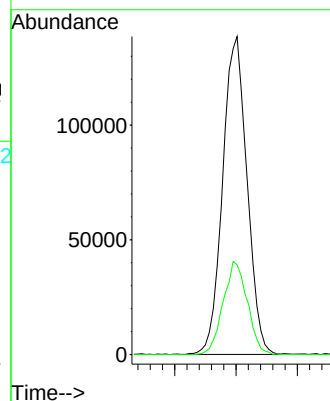
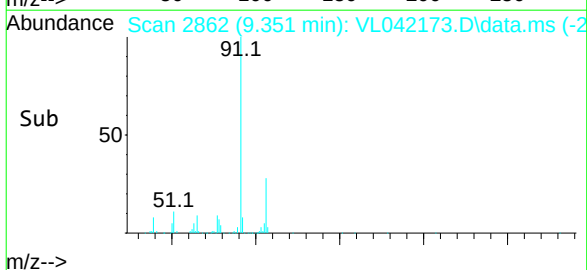
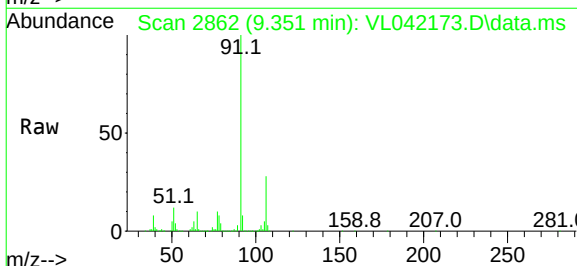
Acq: 27 Mar 2025 08:59

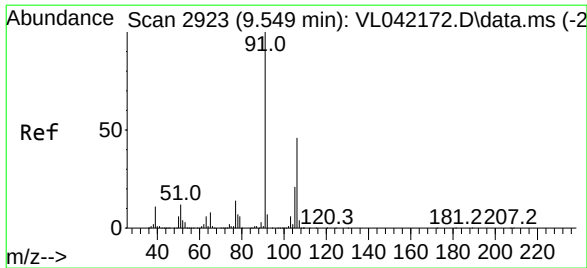
Tgt Ion: 91 Resp: 191114

Ion Ratio Lower Upper

91 100

106 28.3 24.2 36.2





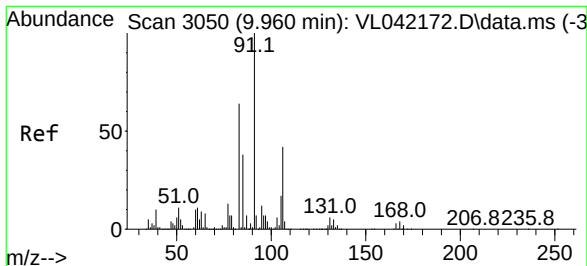
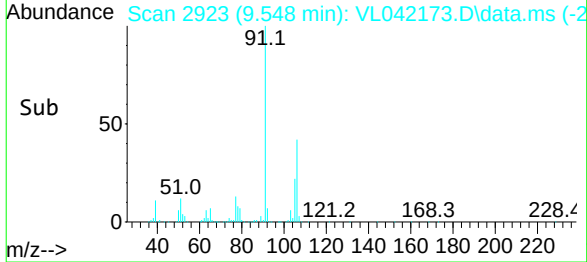
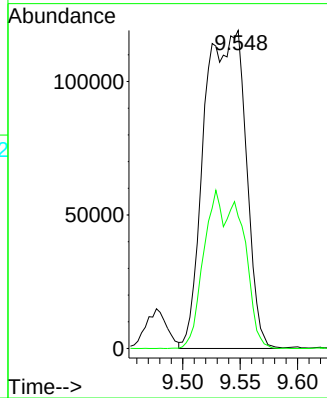
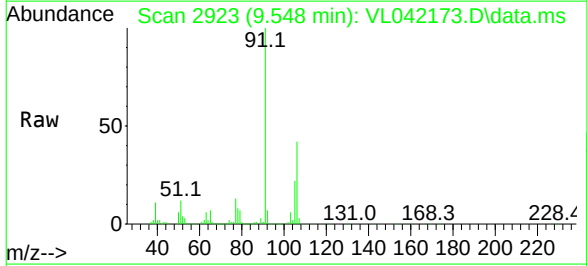
#59
m/p-Xylene
Concen: 4.181 ppbv m
RT: 9.548 min Scan# 29
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 299531
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6#

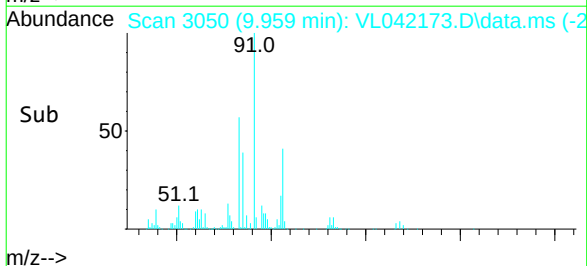
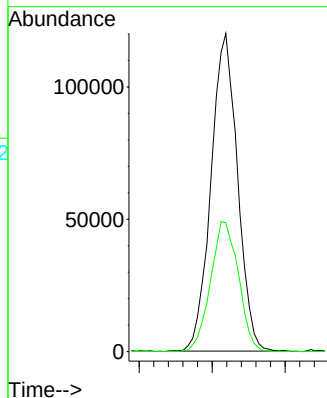
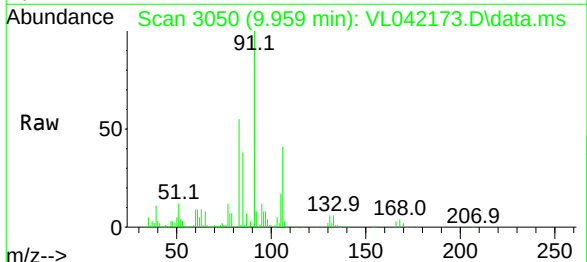
Manual Integrations
APPROVED

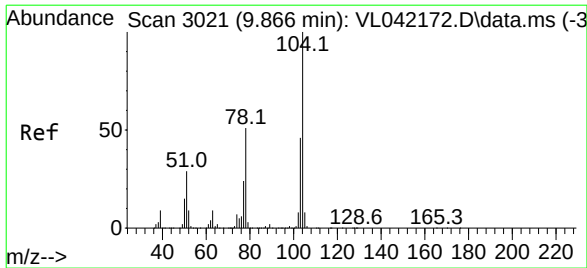
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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 :

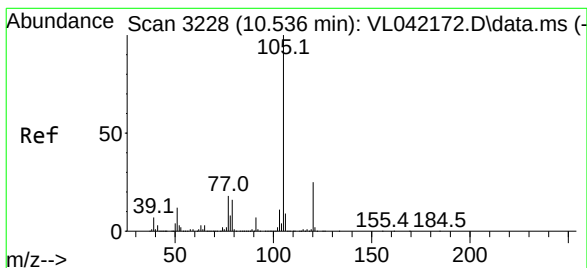
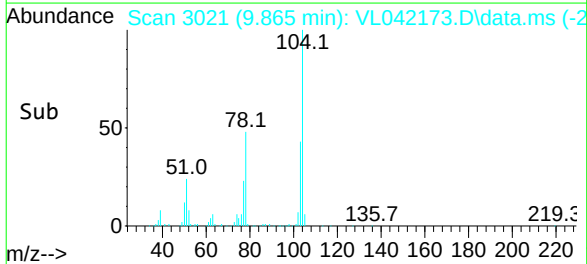
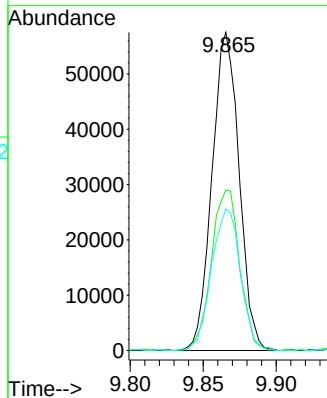
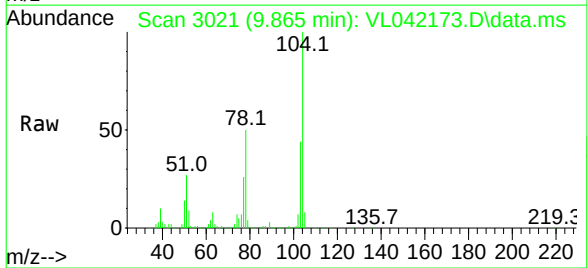
VSTDIC002

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

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#62

Isopropylbenzene

Concen: 2.127 ppbv

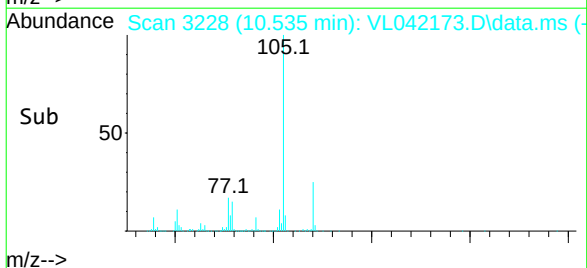
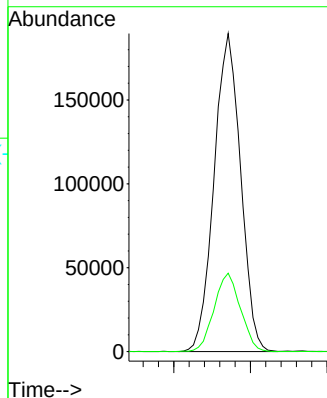
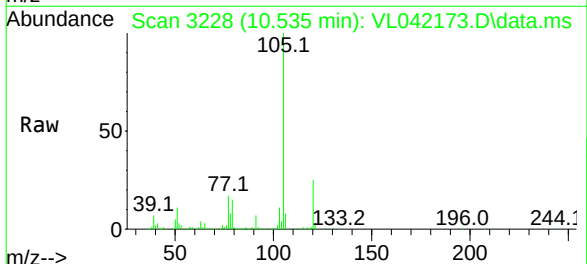
RT: 10.535 min Scan# 3228

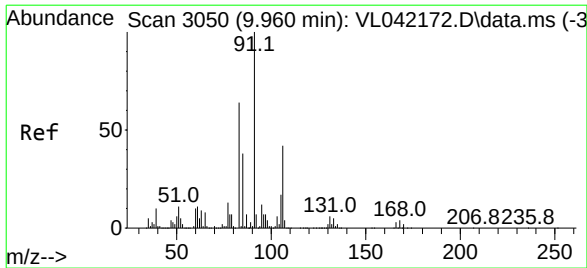
Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

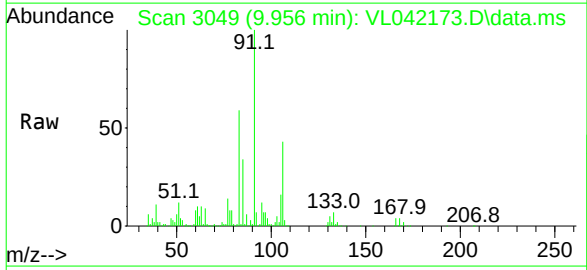
Tgt Ion:105 Resp: 228191
 Ion Ratio Lower Upper
 105 100
 120 24.4 19.9 29.9





#63
1,1,2,2-Tetrachloroethane
Concen: 2.067 ppbv
RT: 9.956 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

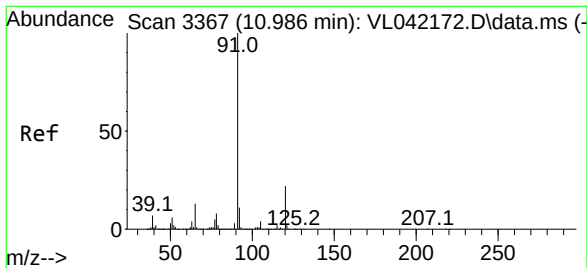
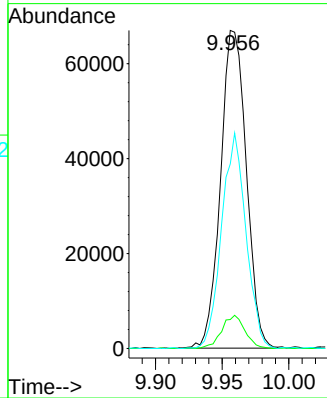
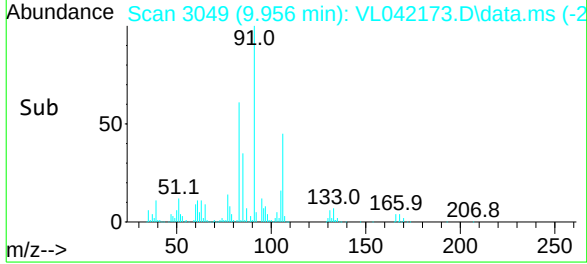
Instrument : MSVOA_L
ClientSampleId : VSTDICC002



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

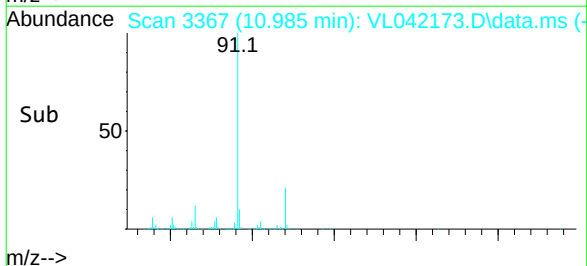
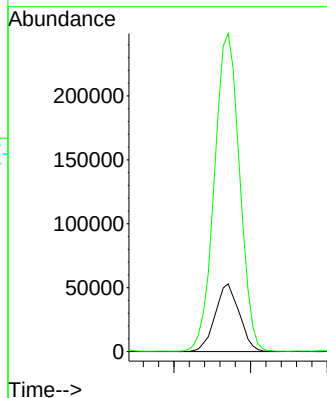
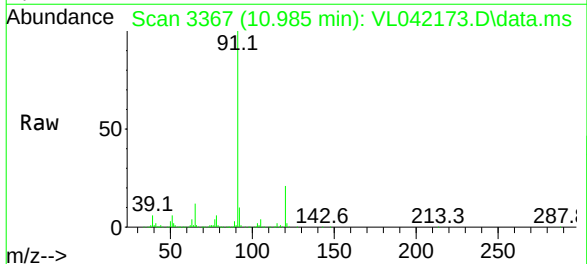
Manual Integrations
APPROVED

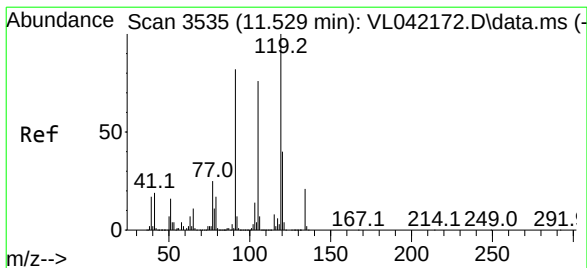
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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 :

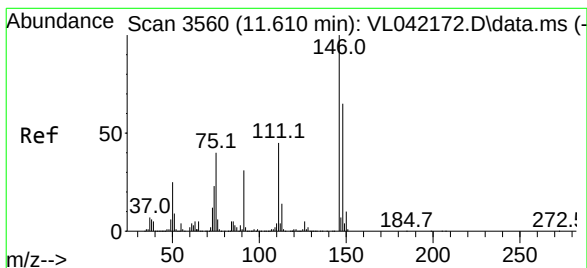
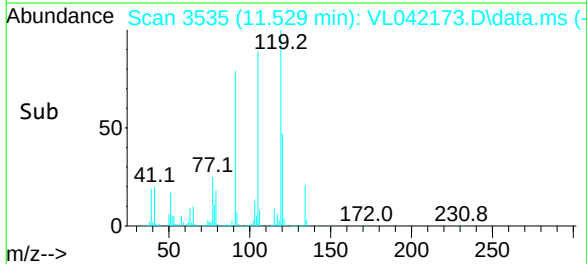
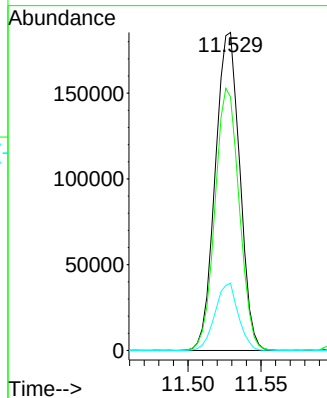
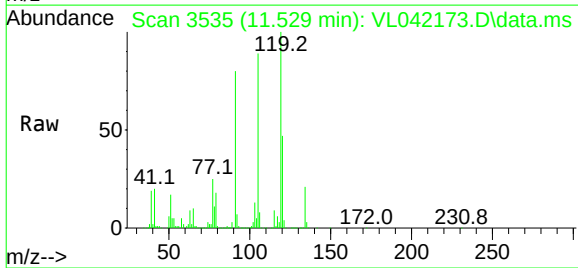
VSTDIC002

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

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#66

Benzyl Chloride

Concen: 2.116 ppbv

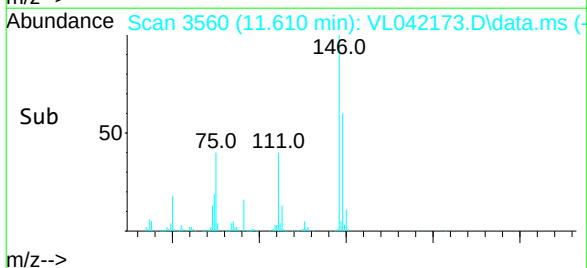
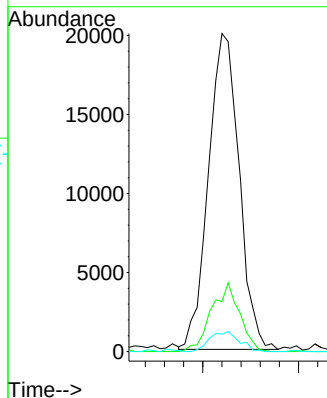
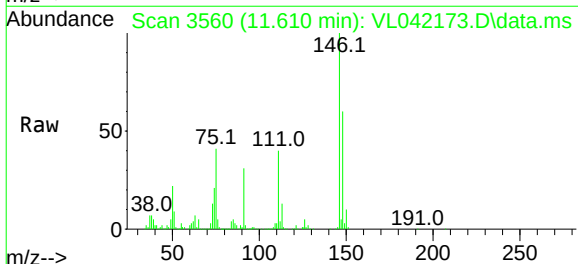
RT: 11.610 min Scan# 3560

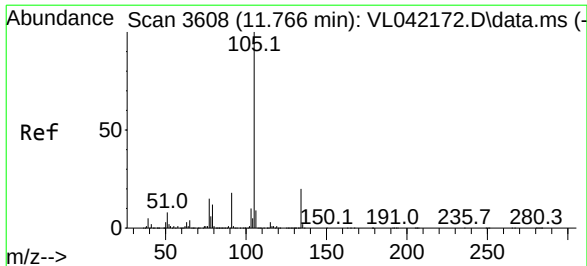
Delta R.T. -0.000 min

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

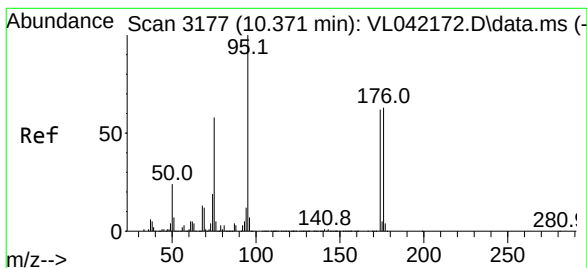
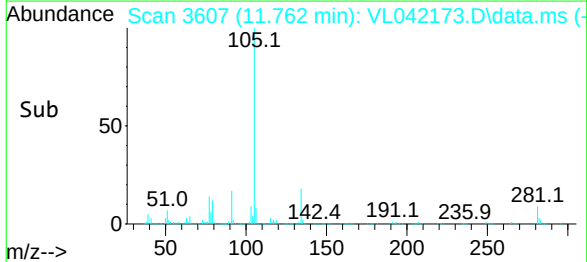
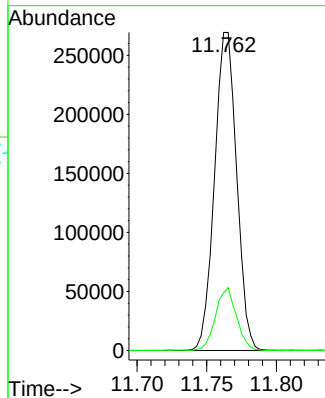
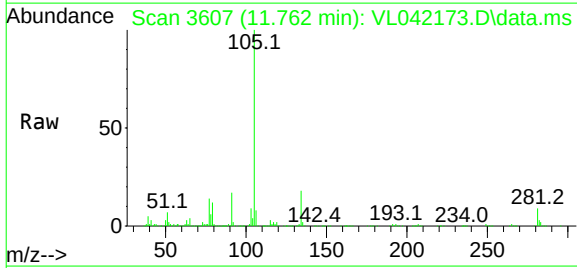
134 18.8 15.5 23.3

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

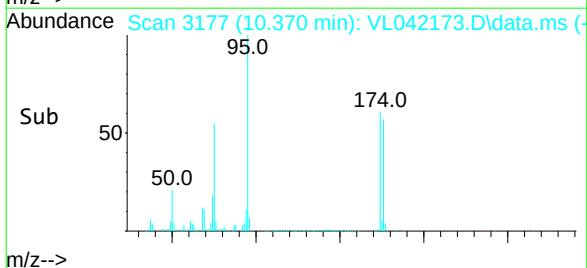
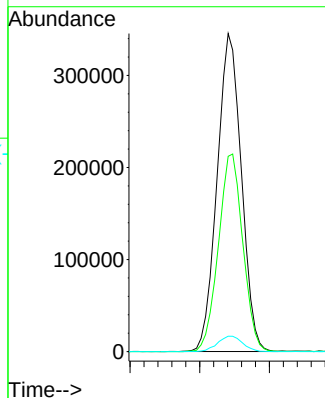
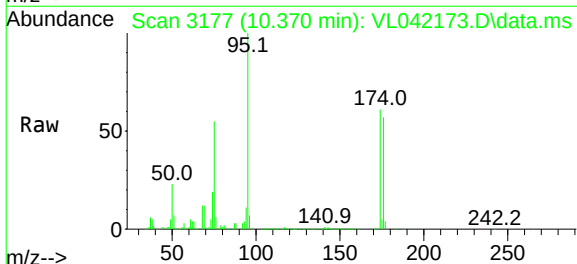
Tgt Ion: 95 Resp: 417532

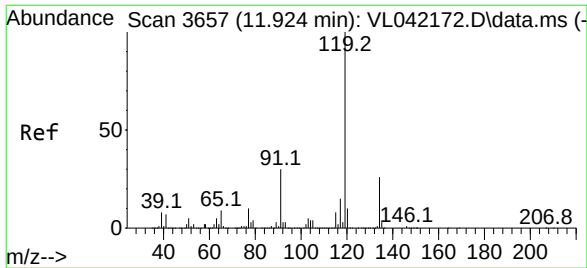
Ion Ratio Lower Upper

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 :

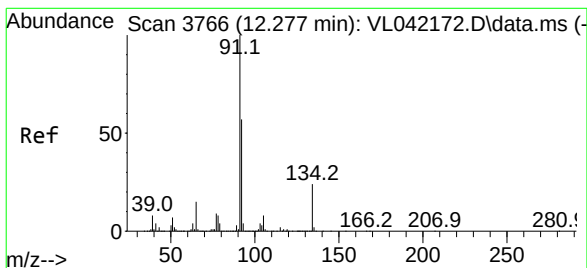
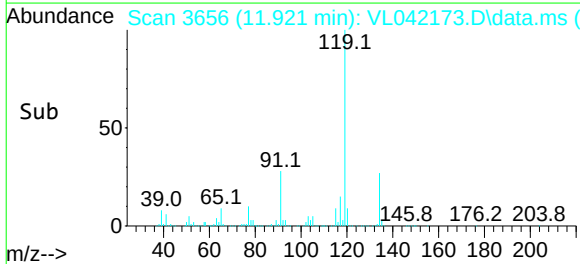
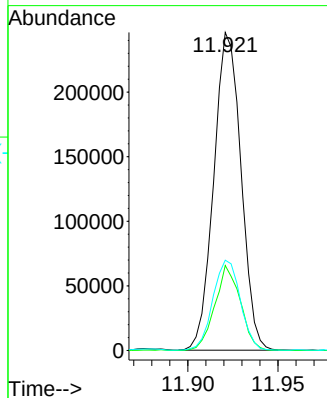
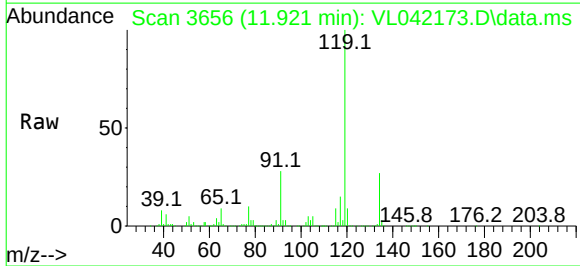
VSTDICC002

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

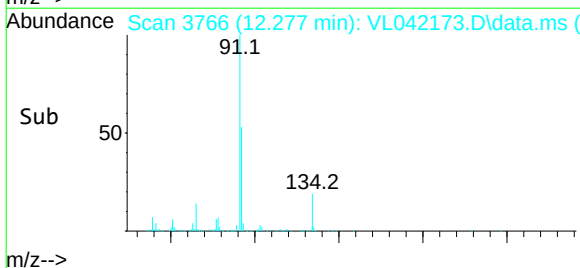
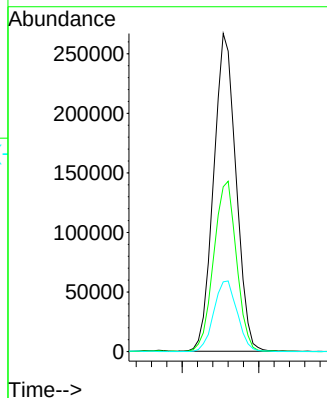
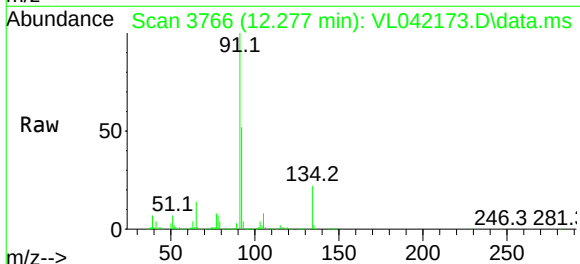
RT: 12.277 min Scan# 3766

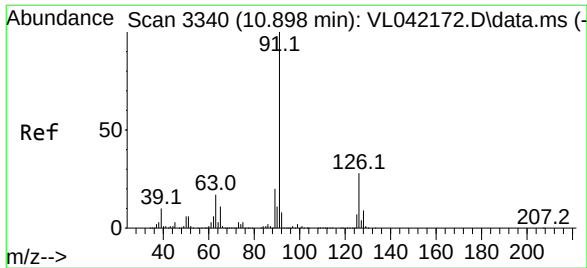
Delta R.T. -0.000 min

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





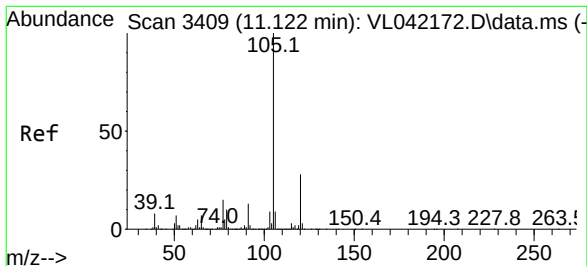
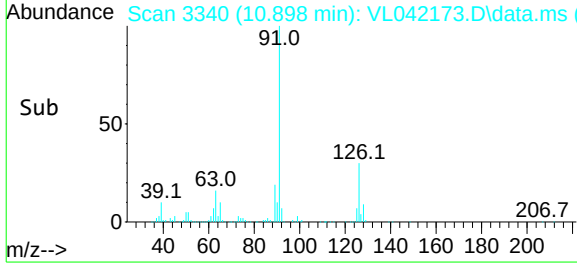
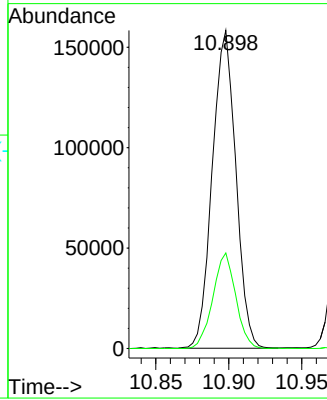
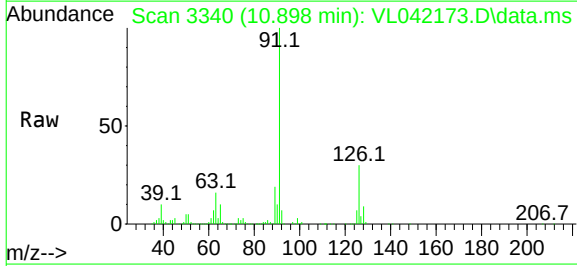
#71
2-Chlorotoluene
Concen: 2.132 ppbv
RT: 10.898 min Scan# 3340
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument : MSVOA_L
ClientSampleId : VSTDIC002

Tgt Ion: 91 Resp: 177487
Ion Ratio Lower Upper
91 100
126 29.2 11.6 46.4

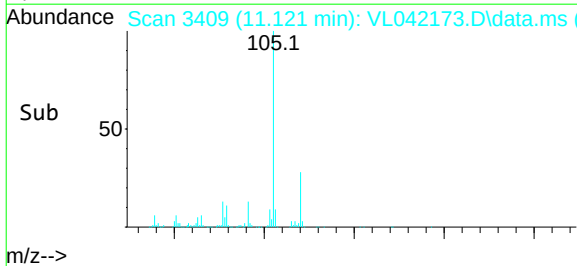
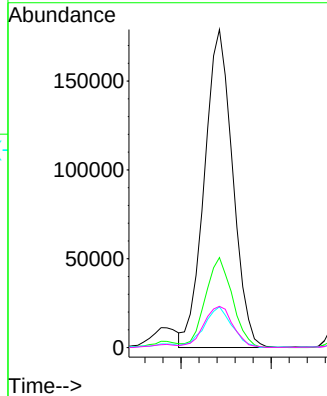
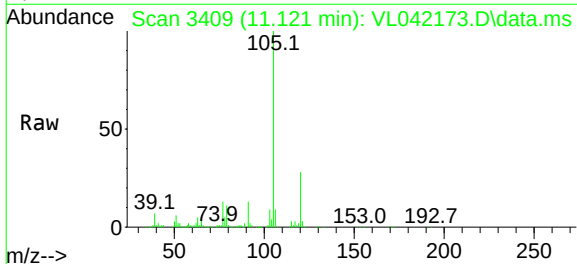
Manual Integrations
APPROVED

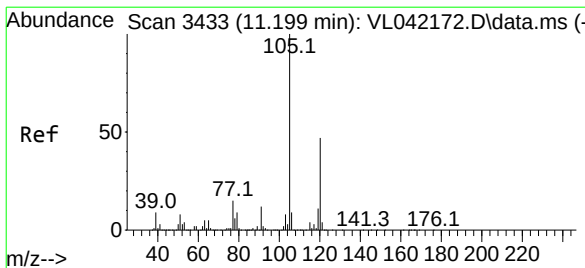
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#72
4-Ethyltoluene
Concen: 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

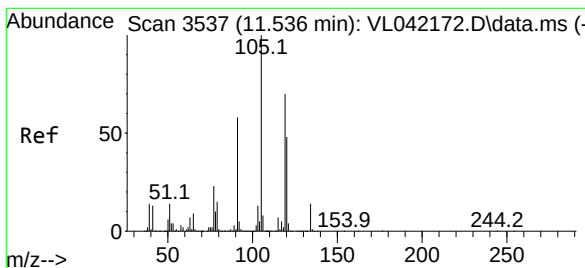
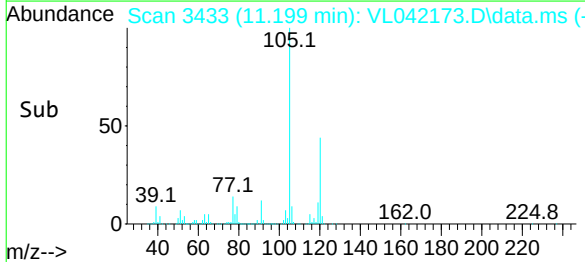
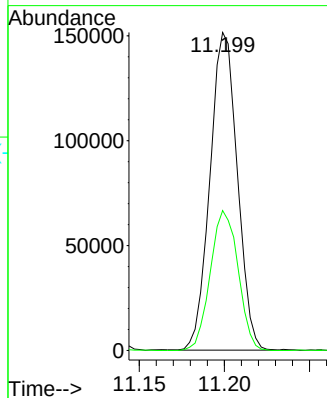
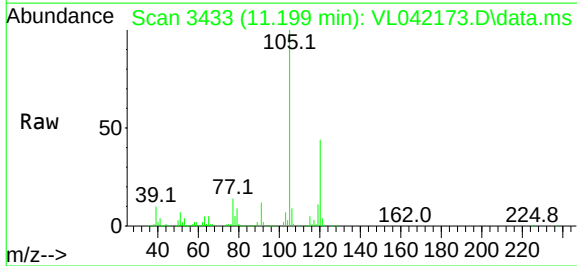
120 44.0 37.4 56.0

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

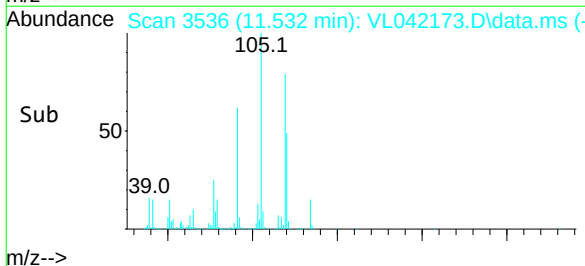
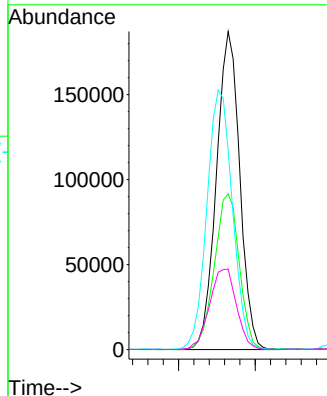
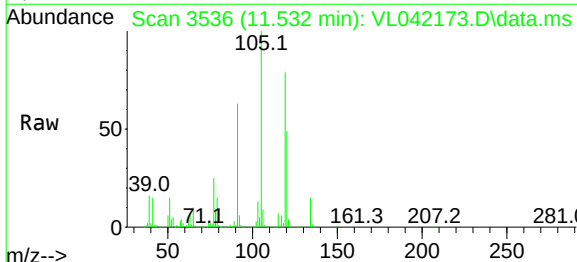
Ion Ratio Lower Upper

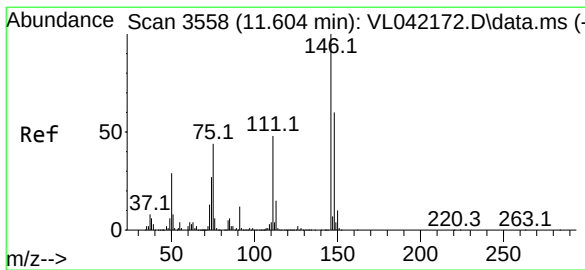
105 100

120 49.0 38.6 58.0

91 62.4 46.2 69.2

77 25.3 18.6 27.8





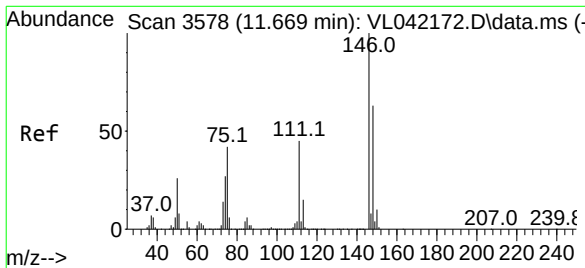
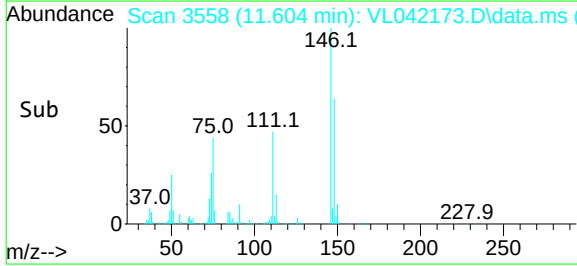
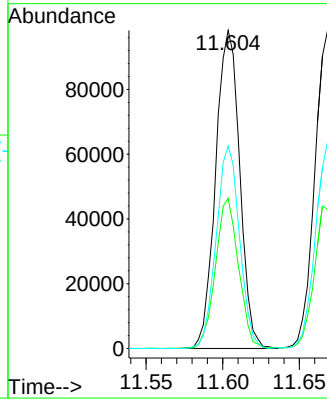
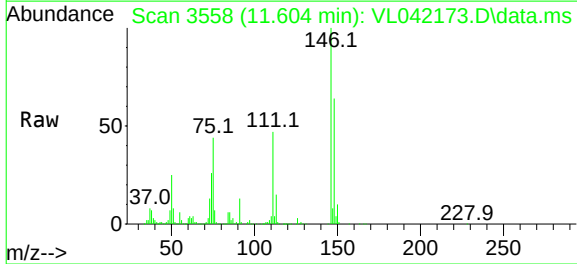
#75
1,3-Dichlorobenzene
Concen: 2.175 ppbv
RT: 11.604 min Scan# 3558
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

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

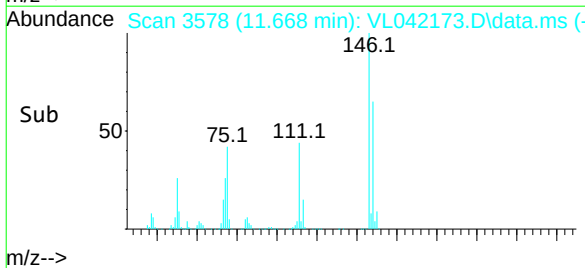
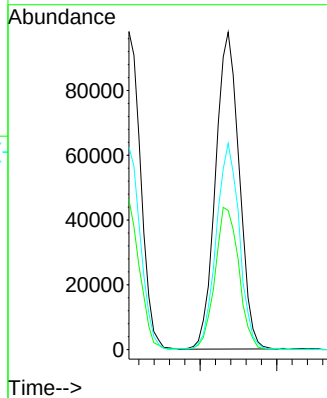
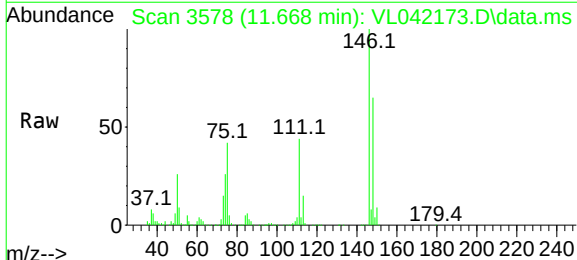
Manual Integrations
APPROVED

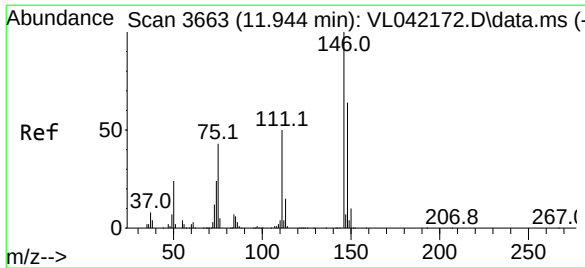
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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 :

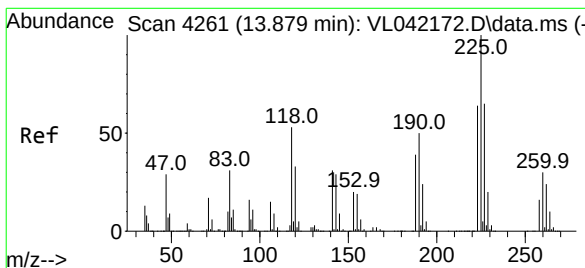
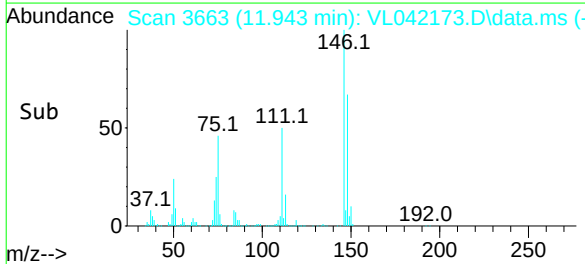
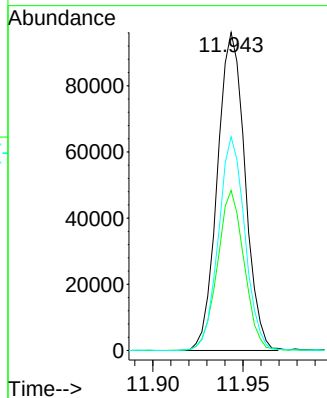
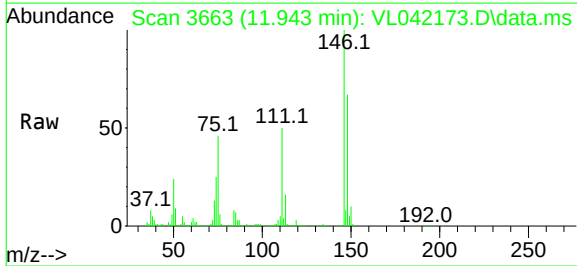
VSTDICC002

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

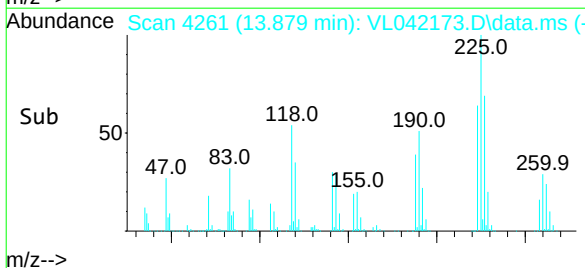
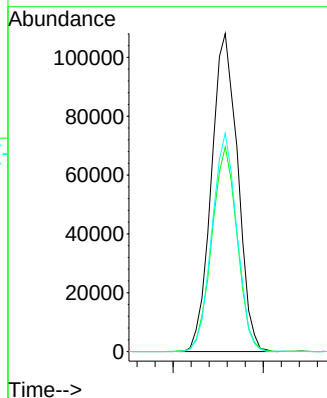
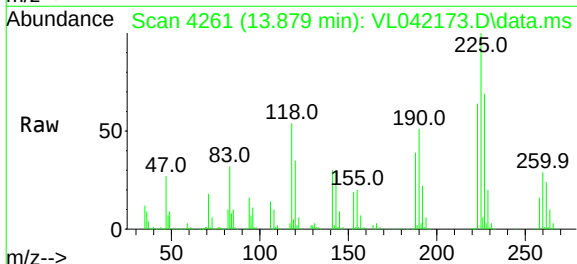
RT: 13.879 min Scan# 4261

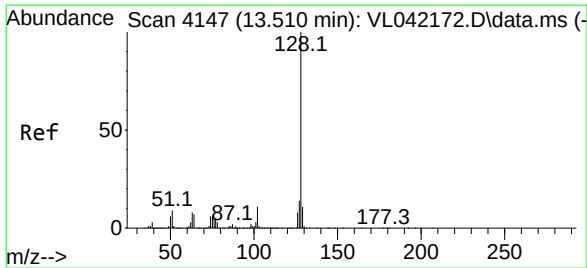
Delta R.T. -0.000 min

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 :

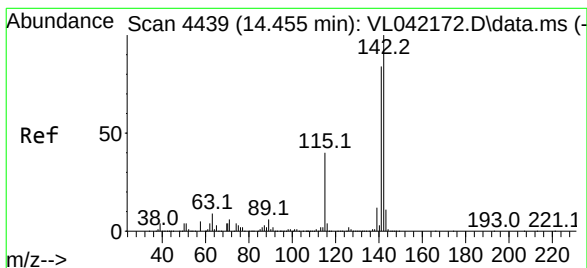
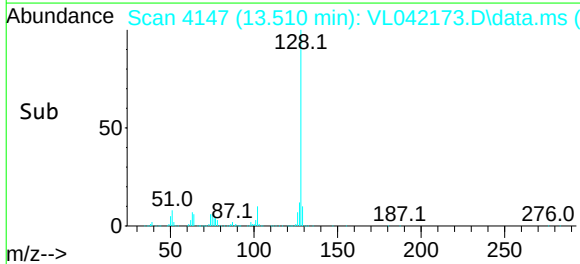
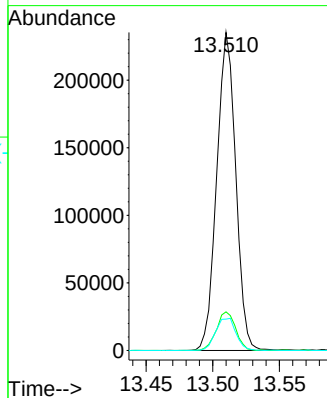
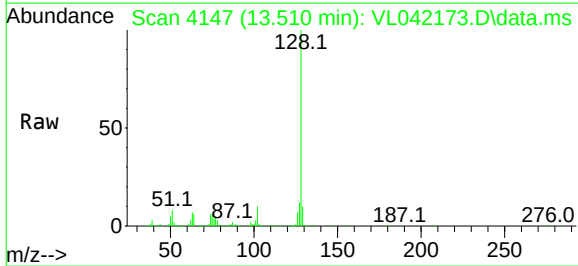
VSTDICC002

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

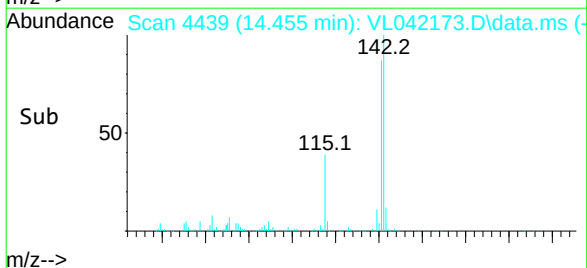
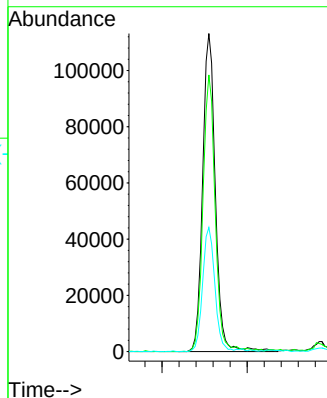
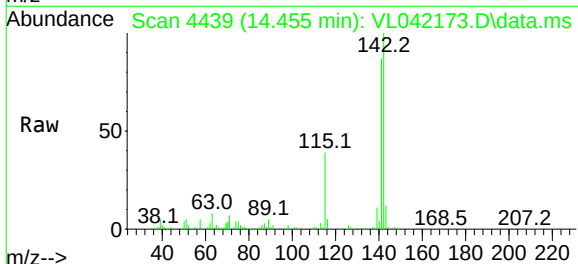
RT: 14.455 min Scan# 4439

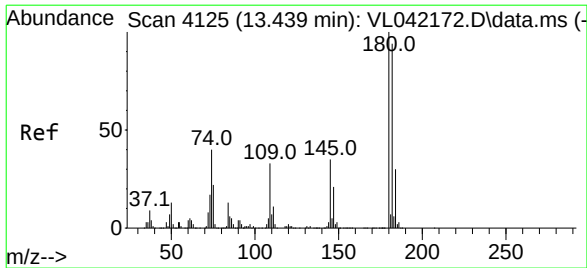
Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

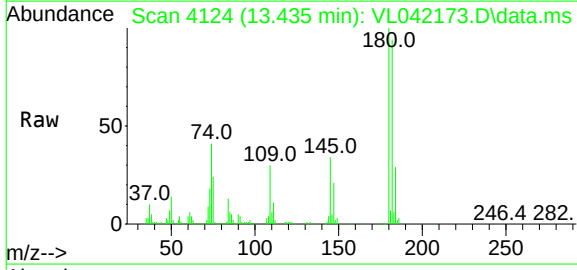
Tgt Ion:	142	Resp:	117313
Ion Ratio	Lower	Upper	
142	100		
141	83.5	66.3	99.5
115	38.5	31.6	47.4





#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

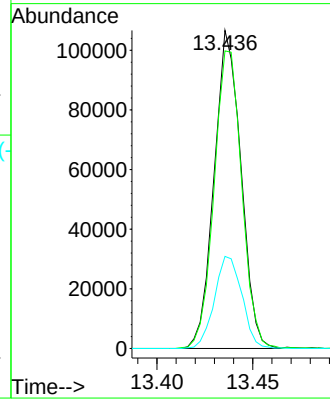
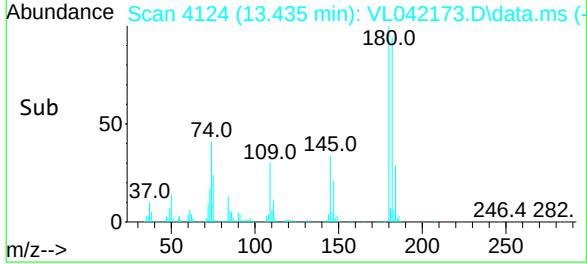
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



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

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)

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

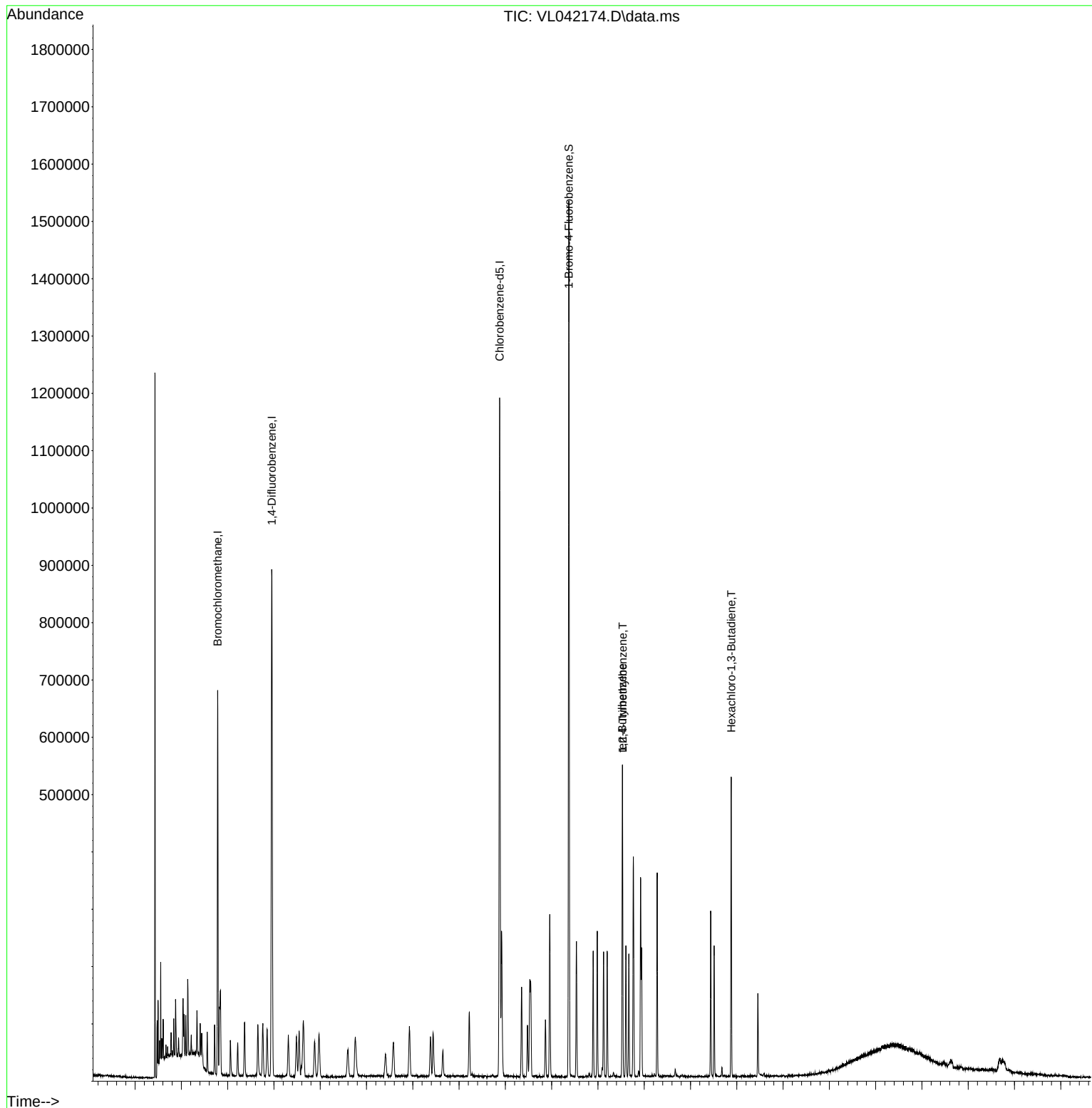
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Data File : VL042174.D
Acq On : 27 Mar 2025 09:30
Operator : SY/MD
Sample : VSTDIC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

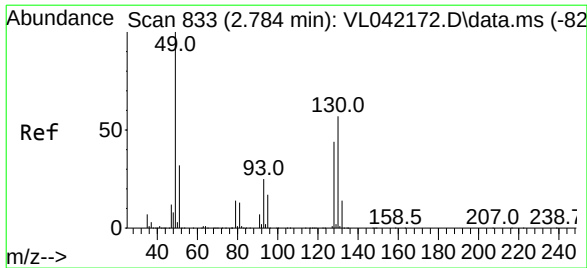
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025

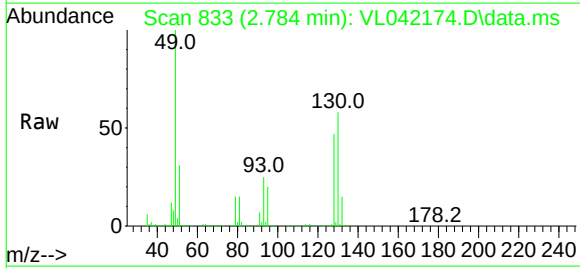
Quant Time: Mar 28 01:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration





#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

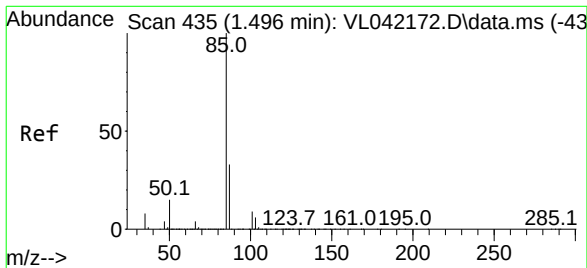
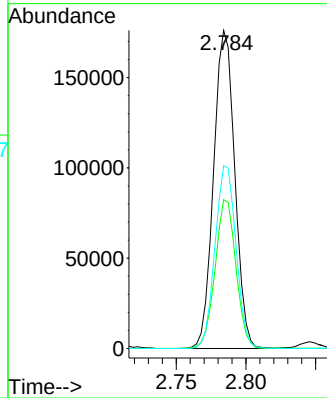
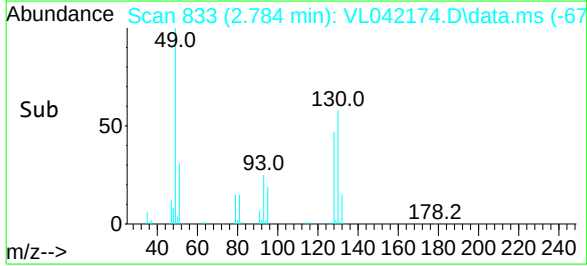
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



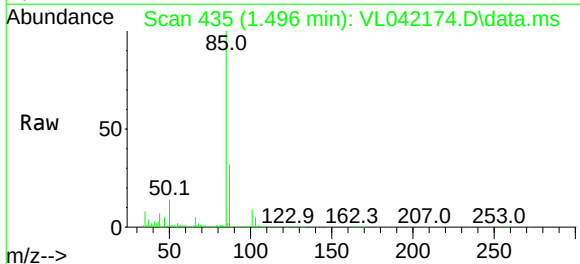
Tgt Ion: 49 Resp: 186244
Ion Ratio Lower Upper
49 100
128 46.2 22.9 68.5
130 57.0 28.8 86.4

Manual Integrations
APPROVED

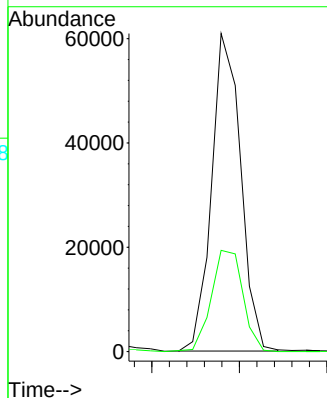
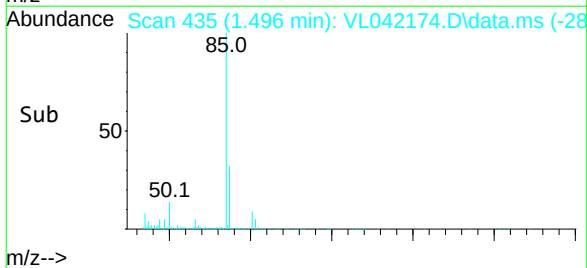
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

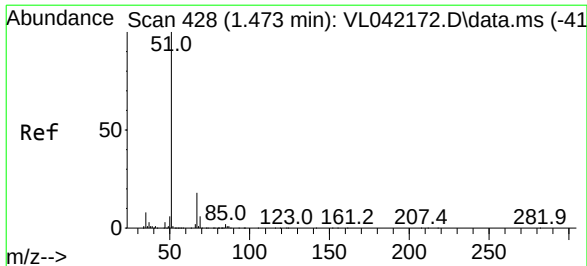


#2
Dichlorodifluoromethane
Concen: 1.026 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30



Tgt Ion: 85 Resp: 28203
Ion Ratio Lower Upper
85 100
87 31.9 26.1 39.1





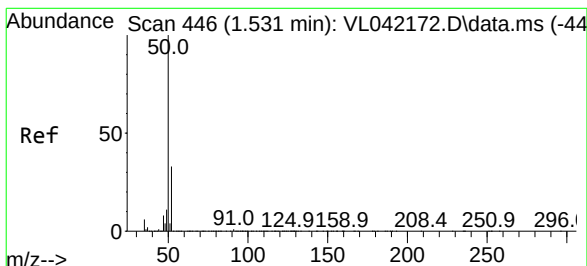
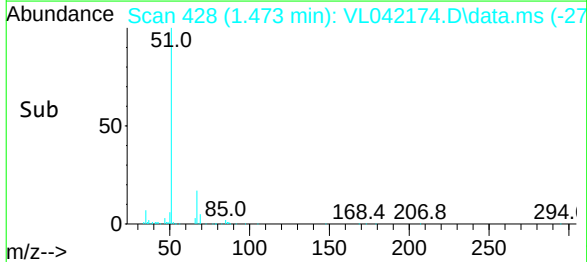
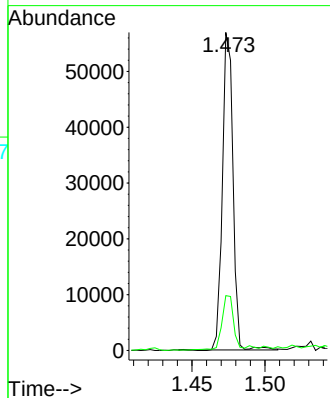
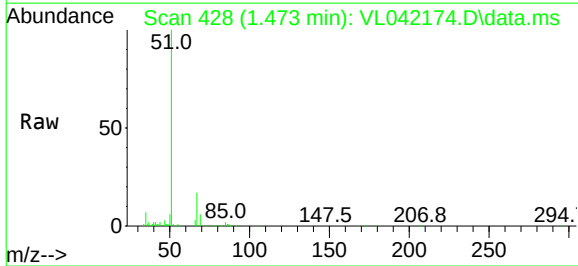
#3
Chlorodifluoromethane
Concen: 1.021 ppbv
RT: 1.473 min Scan# 428
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 51 Resp: 28693
Ion Ratio Lower Upper
51 100
67 21.5 15.0 22.6

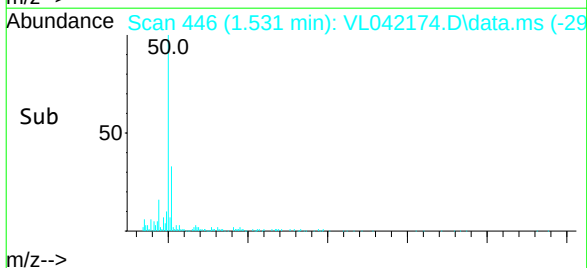
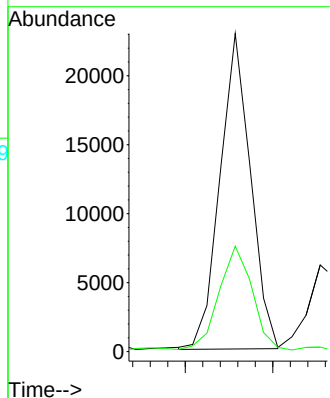
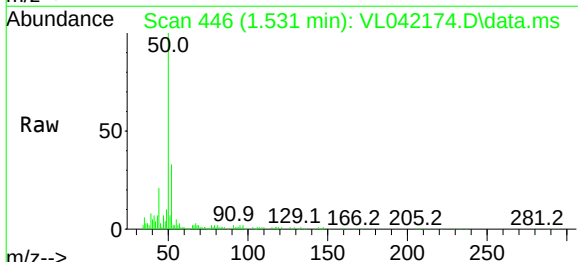
Manual Integrations
APPROVED

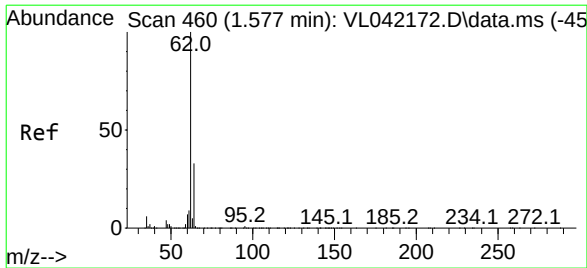
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





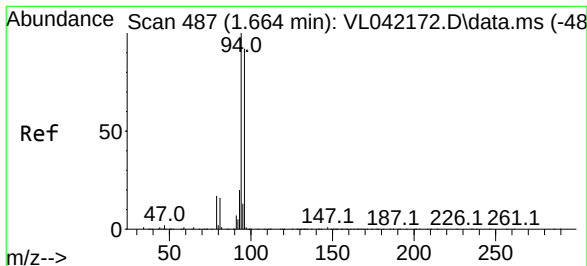
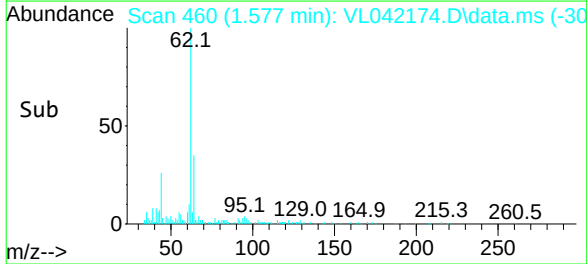
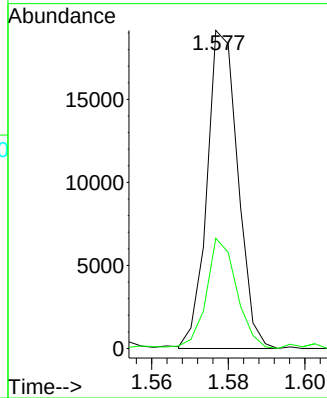
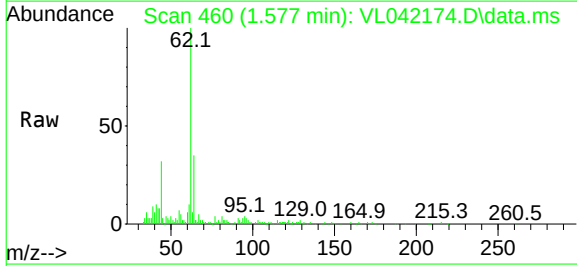
#5
 Vinyl Chloride
 Concen: 0.936 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. 0.000 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Tgt Ion: 62 Resp: 10723
 Ion Ratio Lower Upper
 62 100
 64 34.6 26.6 40.0

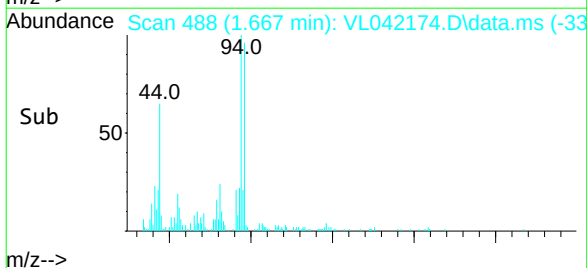
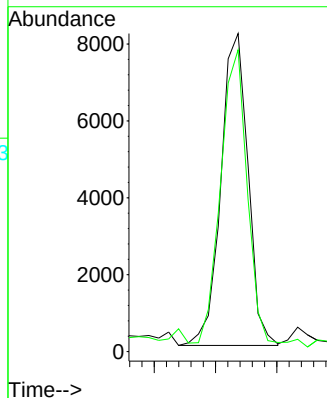
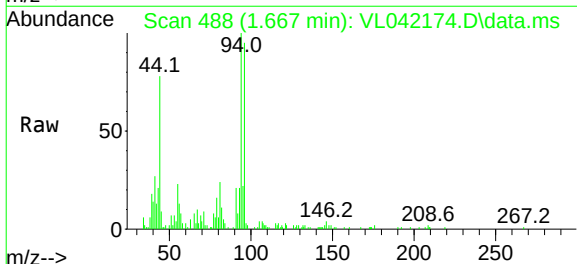
Manual Integrations
 APPROVED

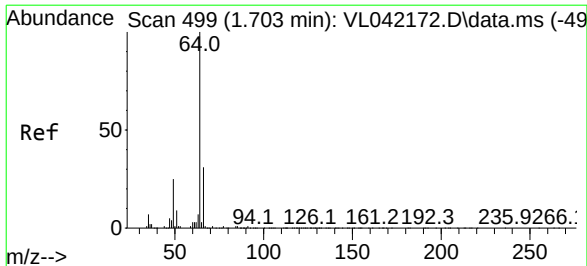
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#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

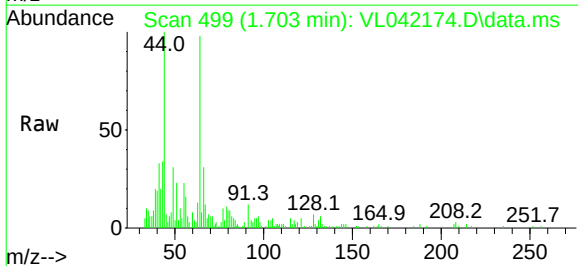
Tgt Ion: 94 Resp: 4984
 Ion Ratio Lower Upper
 94 100
 96 93.8 73.1 109.7





#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

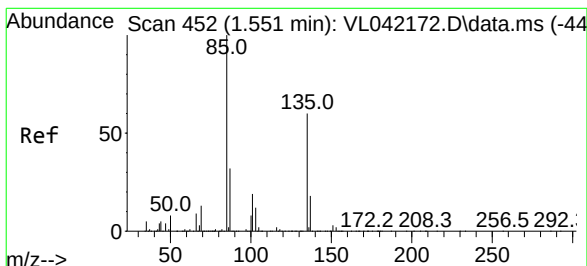
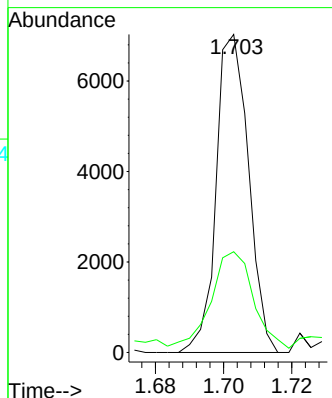
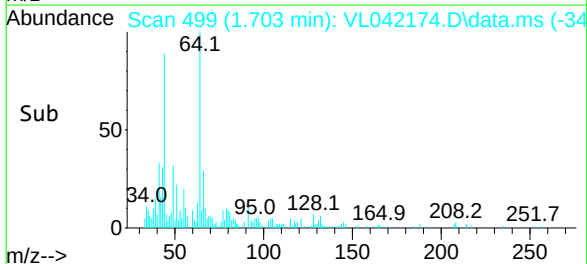
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



Tgt Ion: 64 Resp: 4622
Ion Ratio Lower Upper
64 100
66 31.7 25.2 37.8

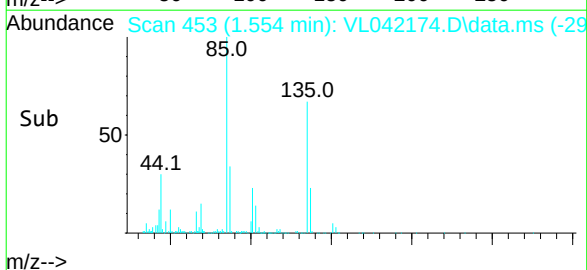
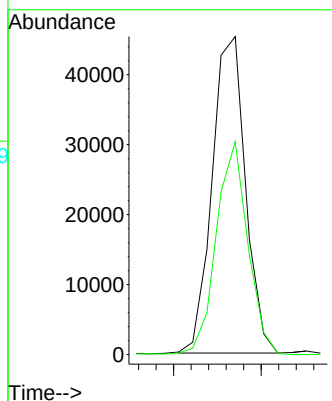
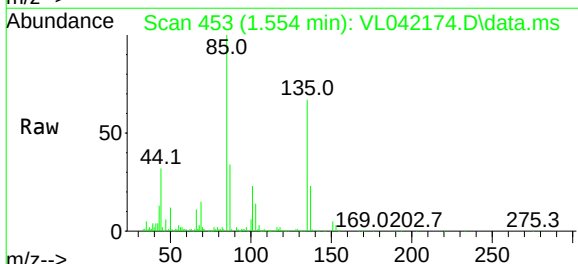
Manual Integrations
APPROVED

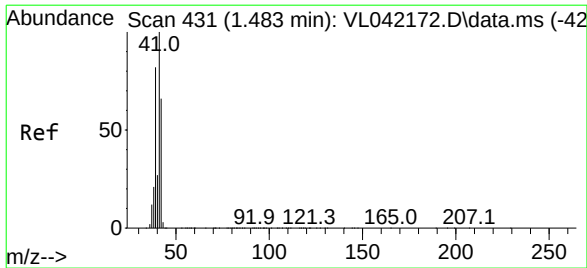
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

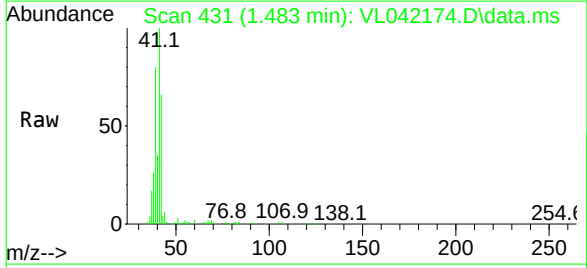
Tgt Ion: 85 Resp: 23886
Ion Ratio Lower Upper
85 100
135 64.2 52.4 78.6





#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

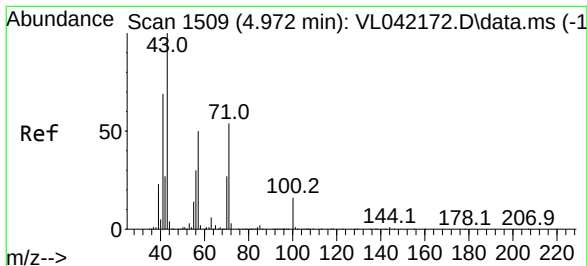
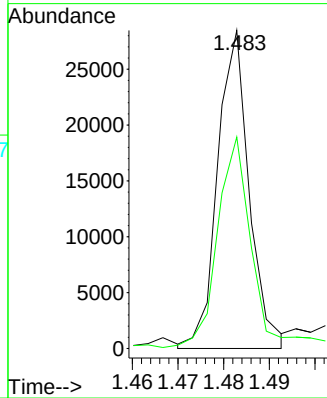
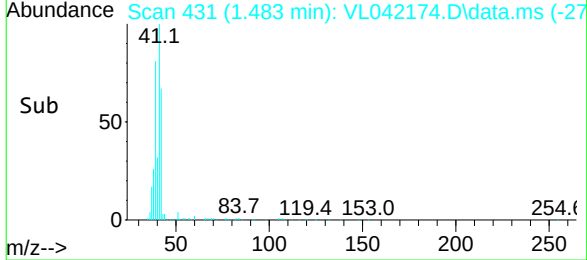
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



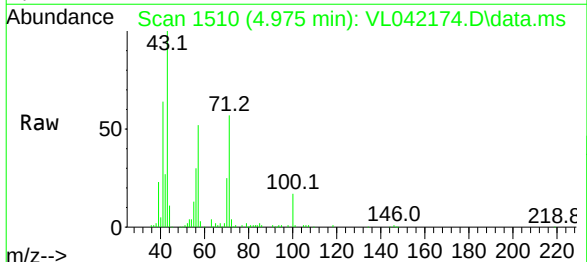
Tgt Ion: 41 Resp: 13699
Ion Ratio Lower Upper
41 100
42 7.5 55.4 83.2#

Manual Integrations
APPROVED

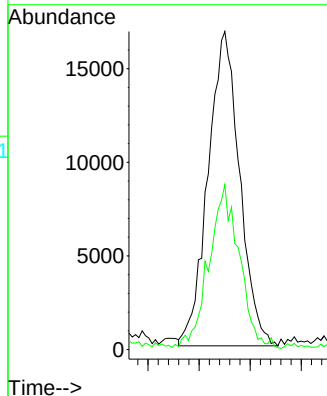
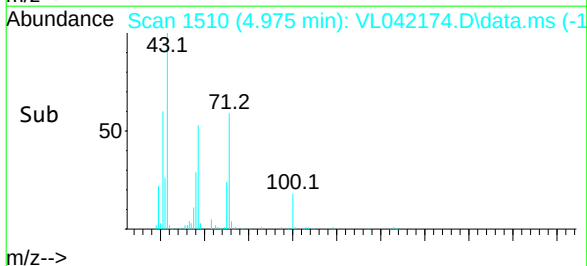
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

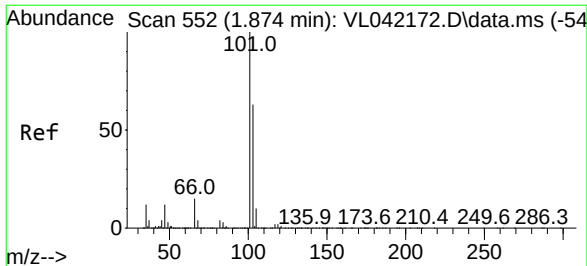


#10
Heptane
Concen: 1.055 ppbv
RT: 4.975 min Scan# 1510
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30



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

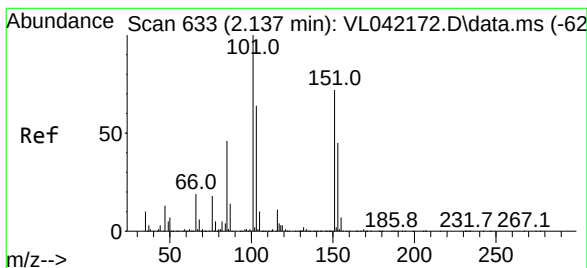
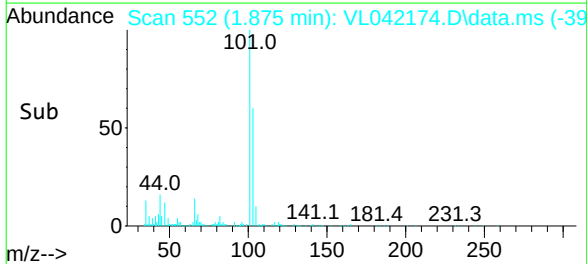
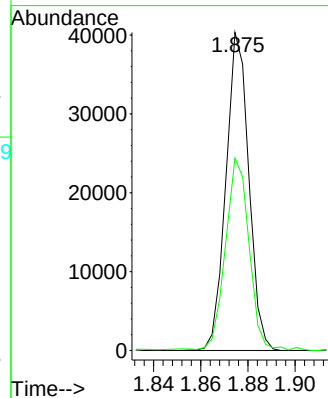
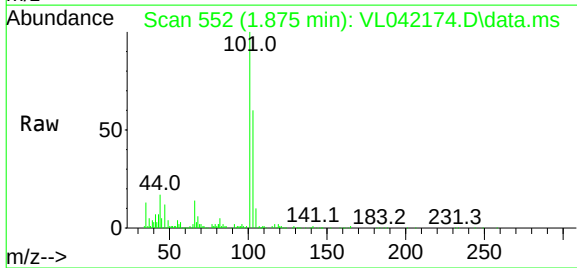
103 59.9 50.2 75.2

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

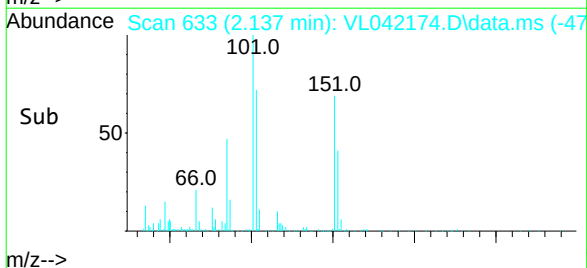
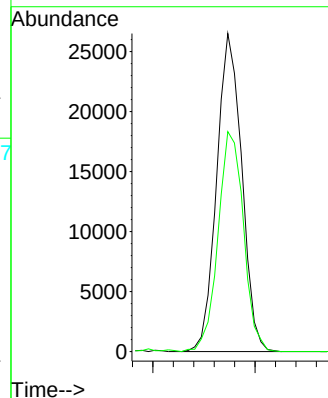
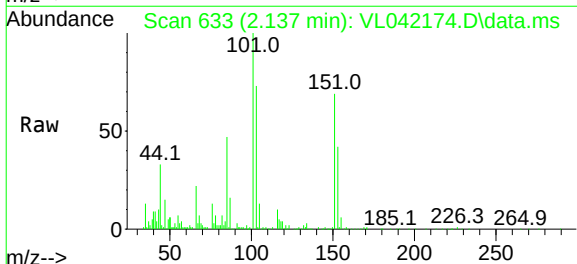
Acq: 27 Mar 2025 09:30

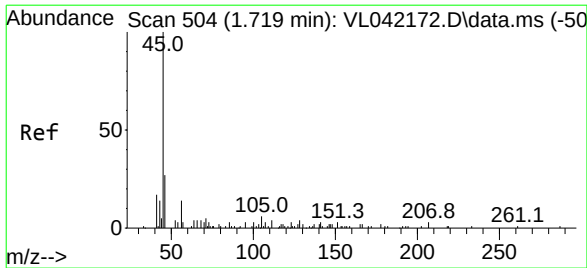
Tgt Ion:101 Resp: 22629

Ion Ratio Lower Upper

101 100

151 70.3 57.1 85.7





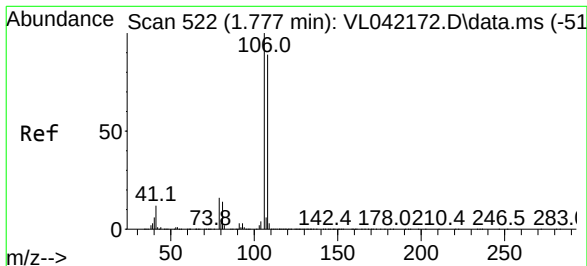
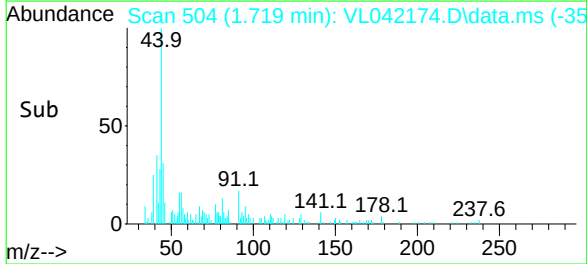
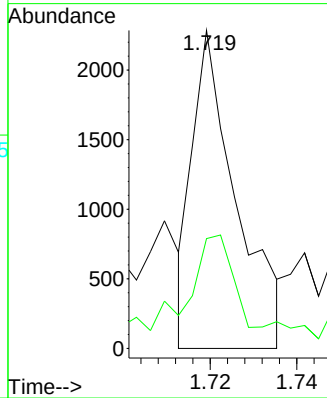
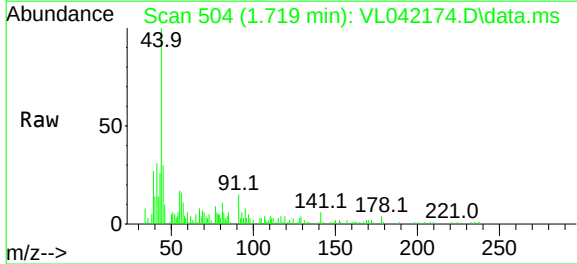
#13
Ethanol
Concen: 1.624 ppbv m
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 45 Resp: 1610
Ion Ratio Lower Upper
45 100
46 73.4 20.2 80.8

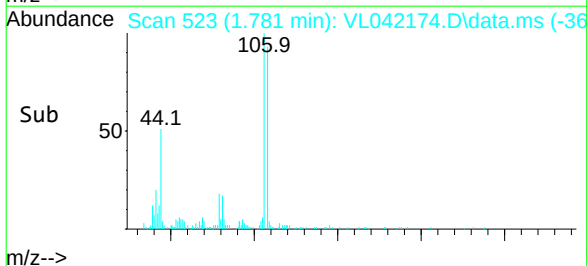
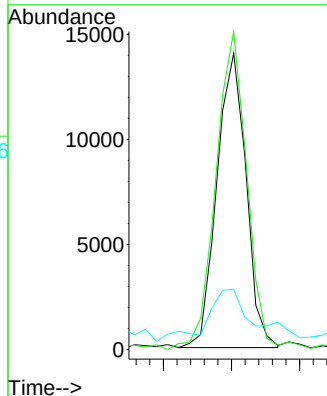
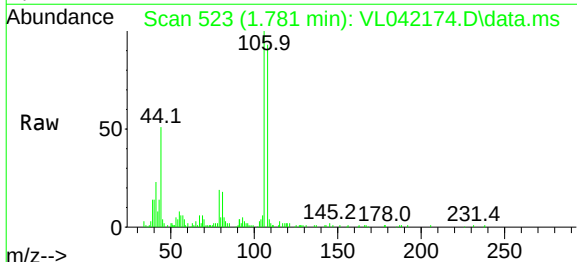
Manual Integrations
APPROVED

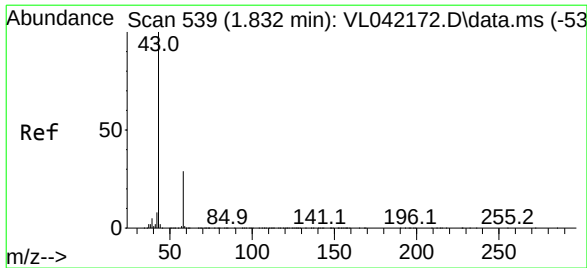
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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#





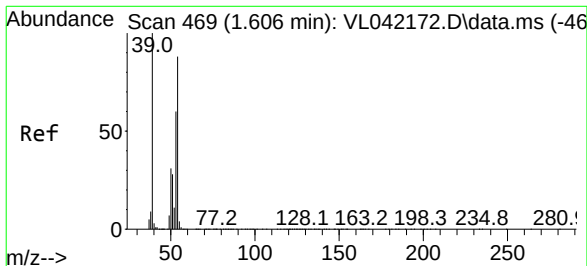
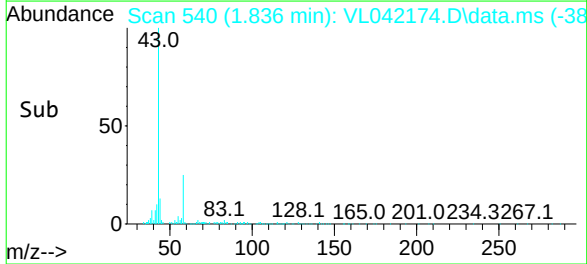
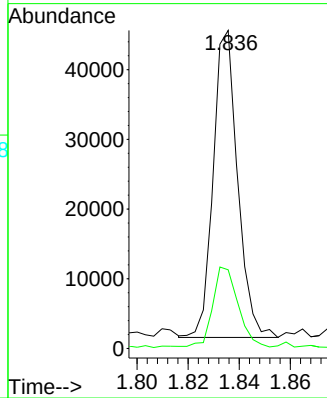
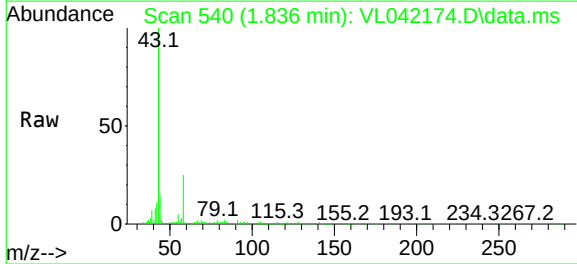
#15
Acetone
Concen: 1.125 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 29294
Ion Ratio Lower Upper
43 100
58 31.6 23.2 34.8

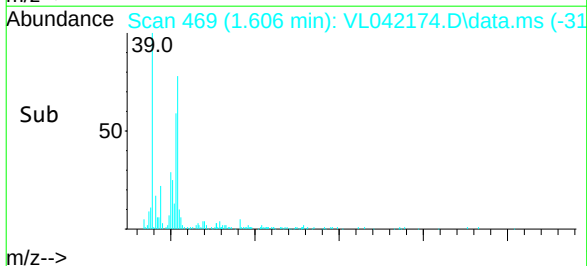
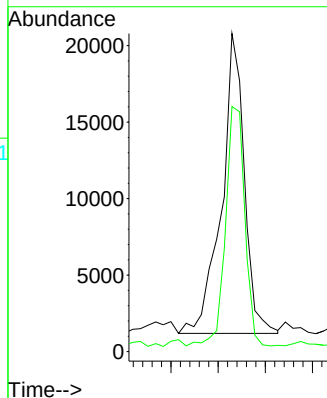
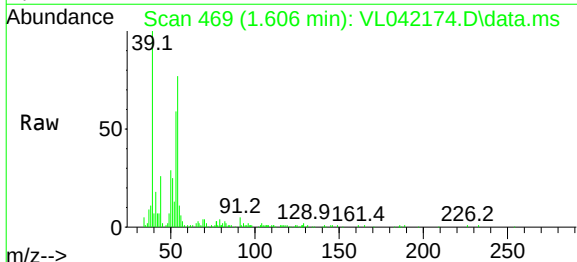
Manual Integrations
APPROVED

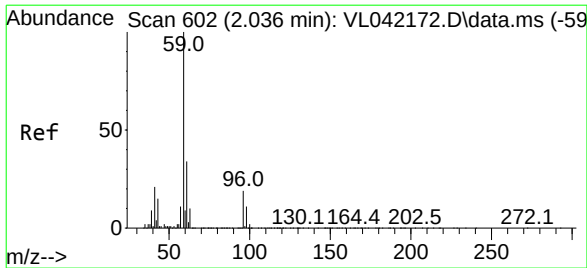
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





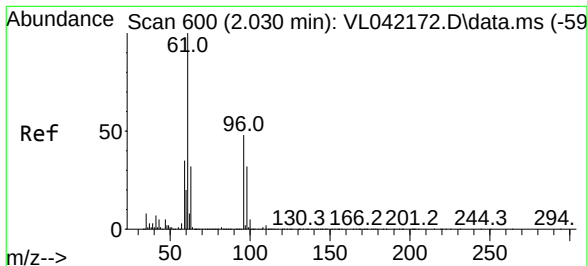
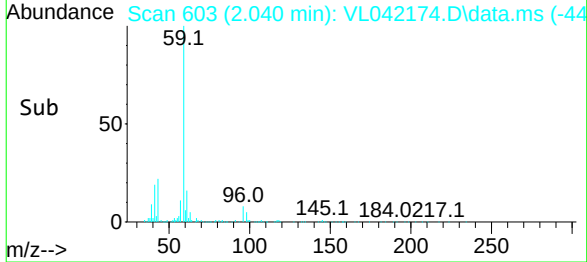
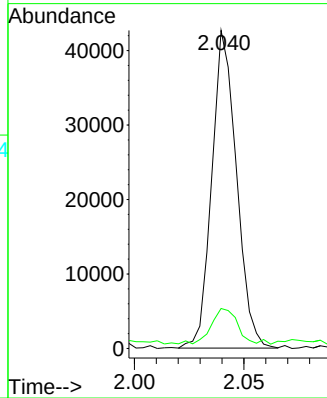
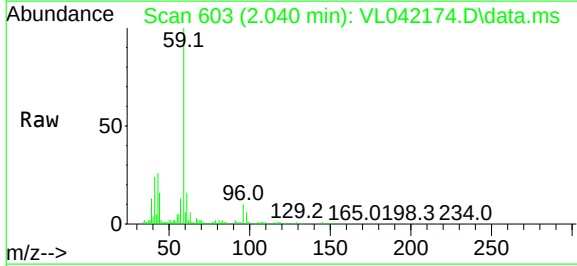
#17
tert-Butyl alcohol
Concen: 1.033 ppbv
RT: 2.040 min Scan# 600
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 59 Resp: 33500
Ion Ratio Lower Upper
59 100
57 12.3 8.9 13.3

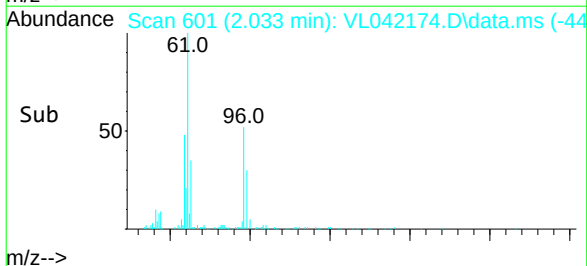
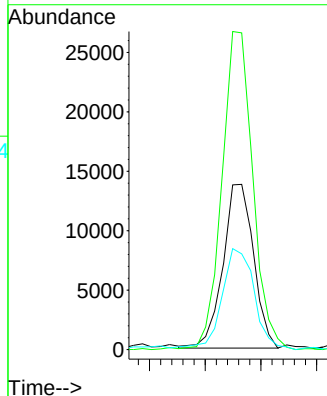
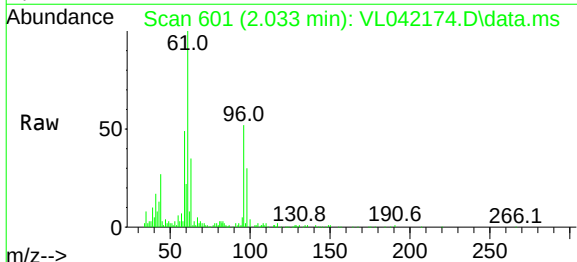
Manual Integrations
APPROVED

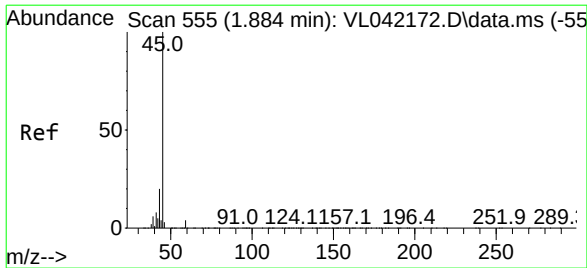
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





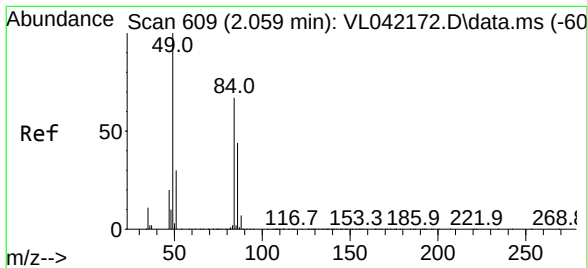
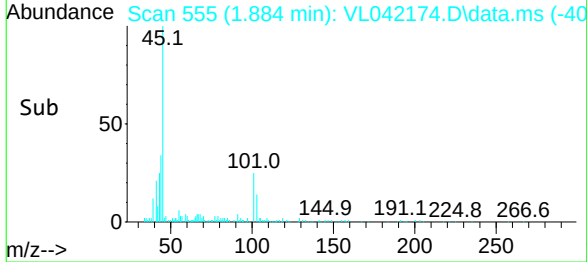
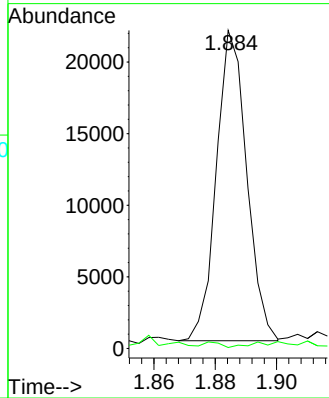
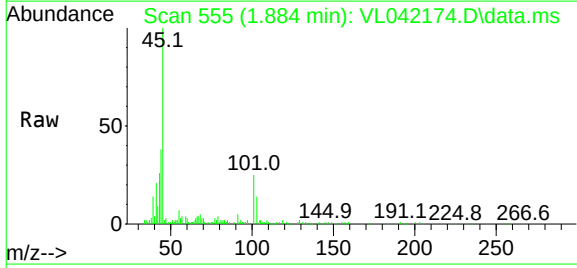
#19
Isopropyl Alcohol
Concen: 1.014 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 45 Resp: 14903
Ion Ratio Lower Upper
45 100
58 4.9 36.9 55.3

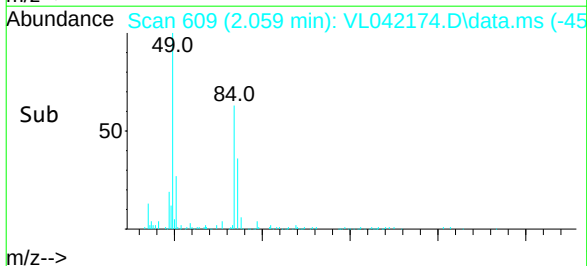
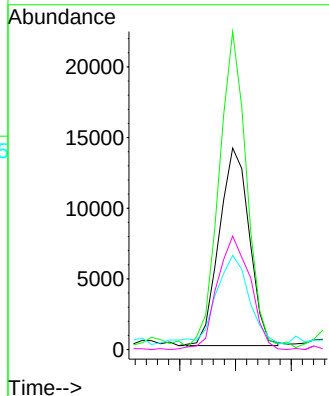
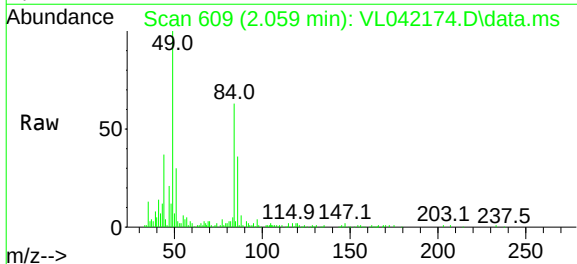
Manual Integrations
APPROVED

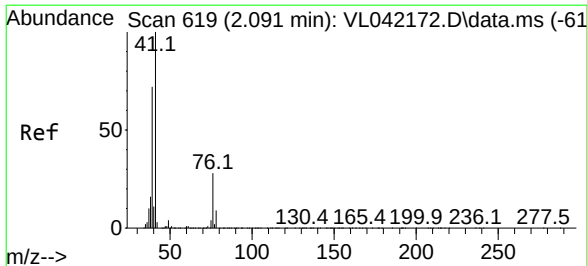
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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 :

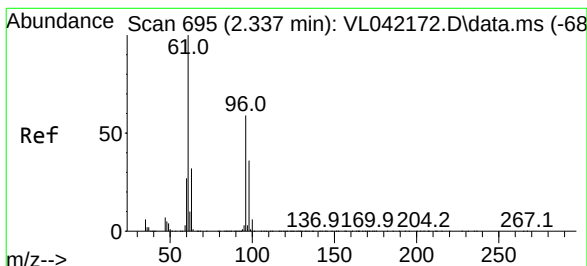
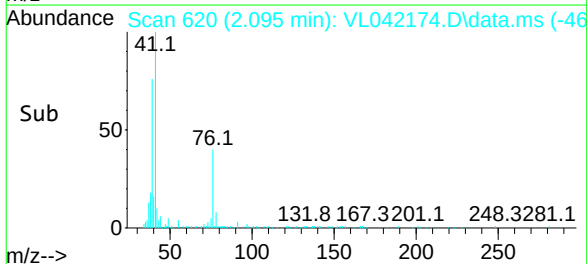
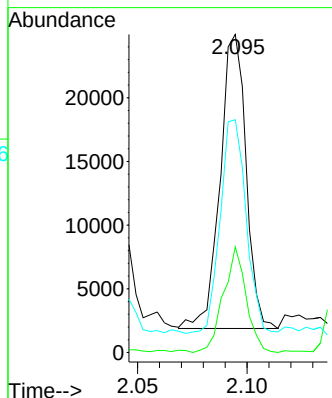
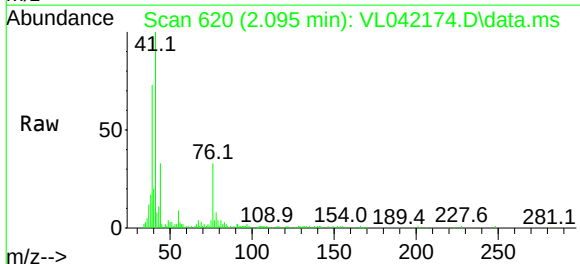
VSTDICC001

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

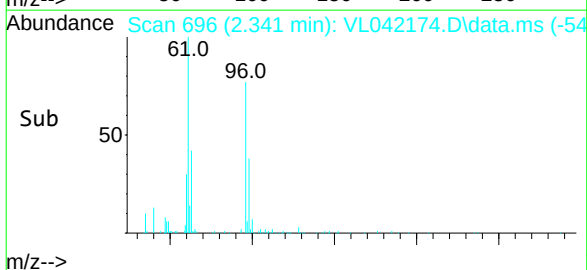
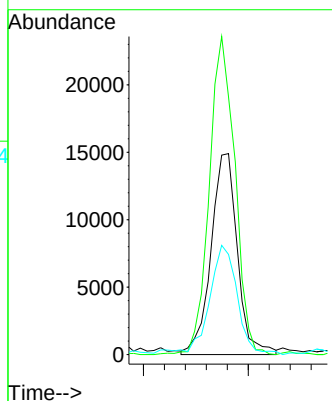
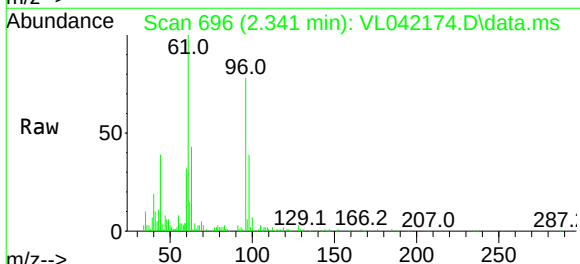
RT: 2.341 min Scan# 696

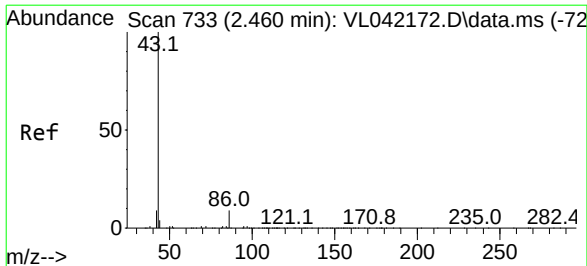
Delta R.T. 0.003 min

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

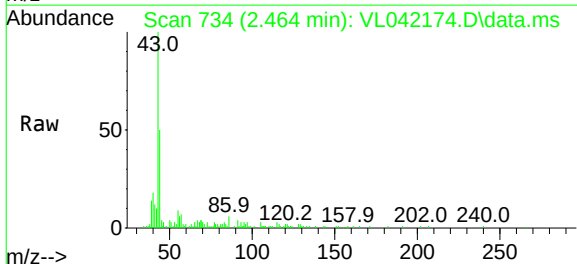
Acq: 27 Mar 2025 09:30

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

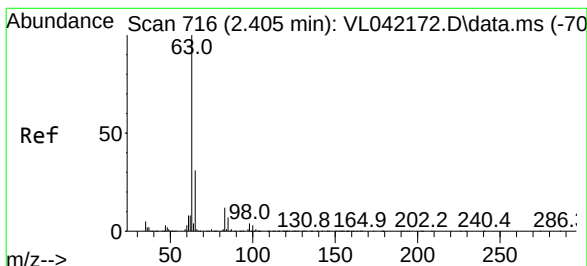
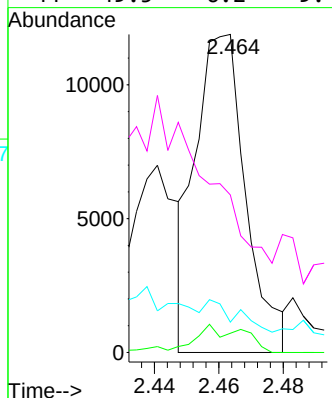
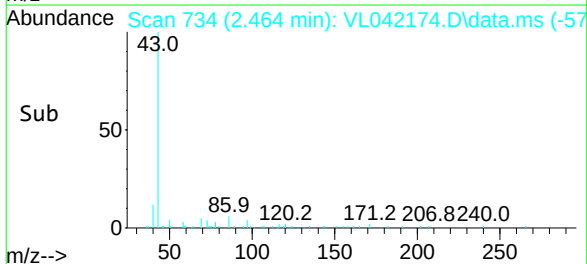
44 49.5 6.2 9.4#

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

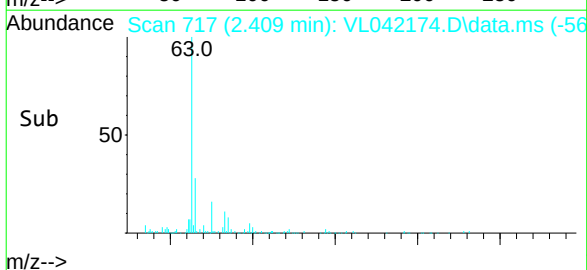
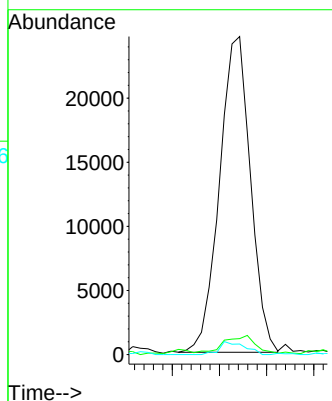
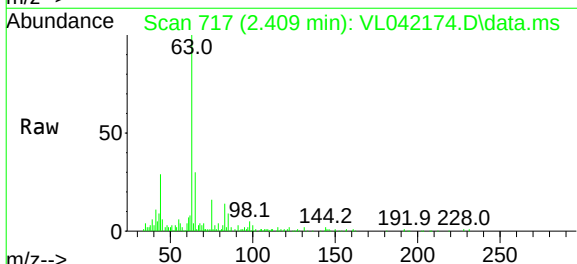
Tgt Ion: 63 Resp: 22505

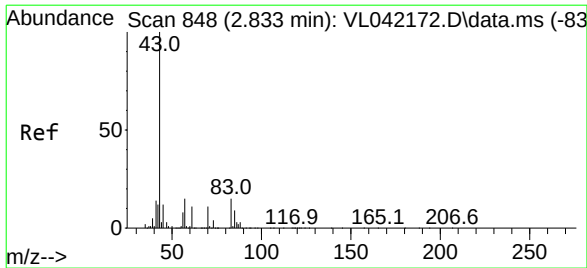
Ion Ratio Lower Upper

63 100

98 4.6 2.3 6.8

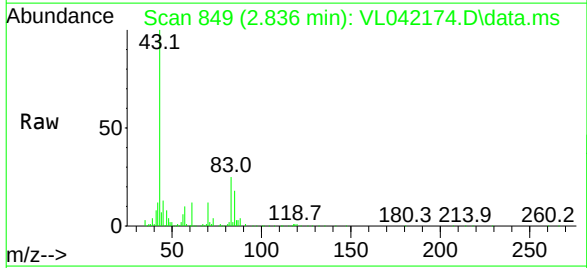
100 3.4 1.6 4.7





#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

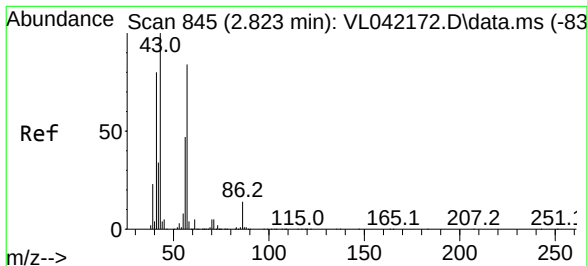
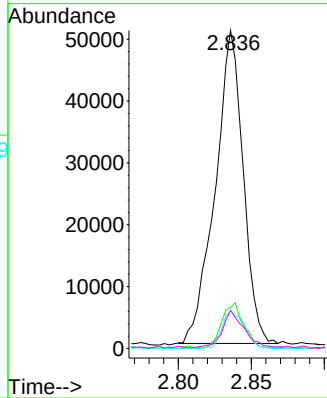
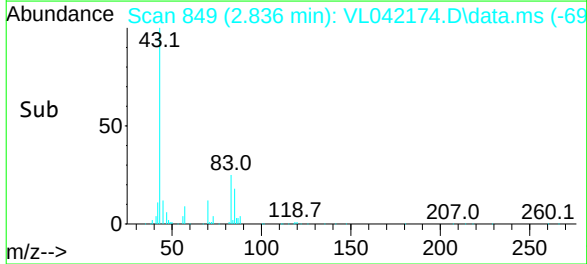
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



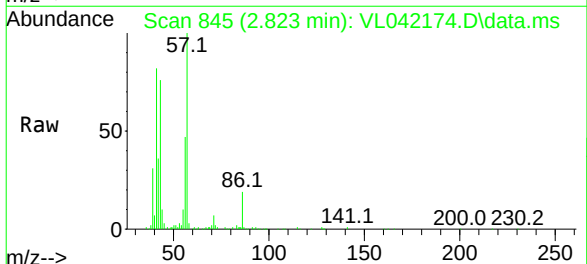
Tgt Ion: 43 Resp: 67402
Ion Ratio Lower Upper
43 100
45 12.3 8.2 12.2
61 9.6 7.3 10.9
70 10.3 7.2 10.8

Manual Integrations
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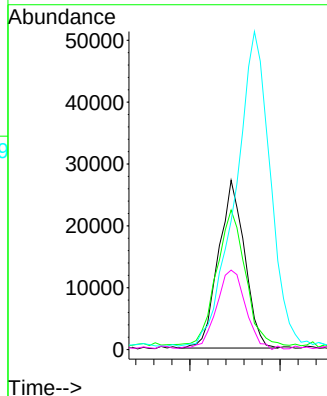
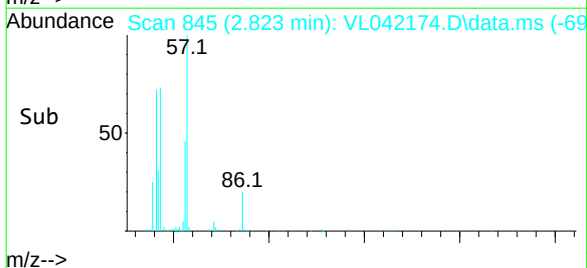
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

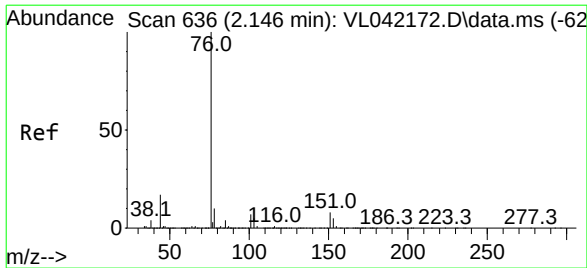


#26
Hexane
Concen: 1.043 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30



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





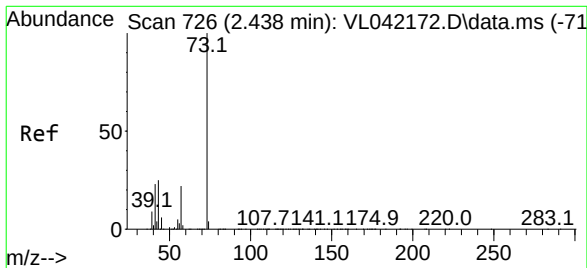
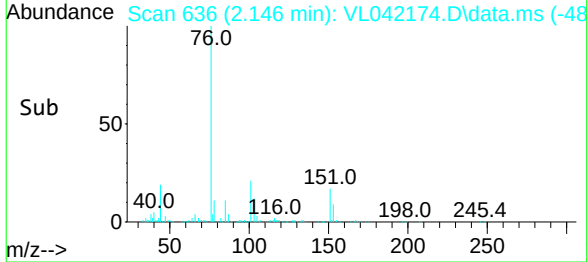
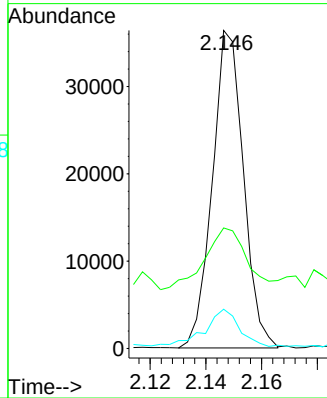
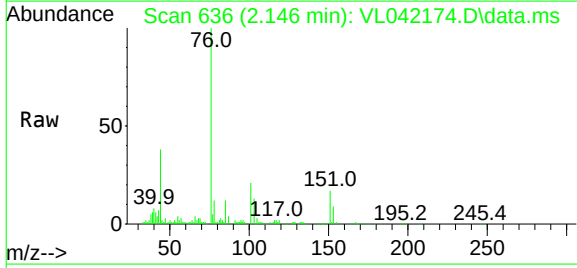
#27
Carbon Disulfide
Concen: 1.006 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

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#

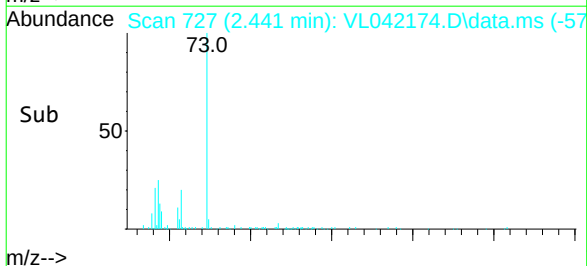
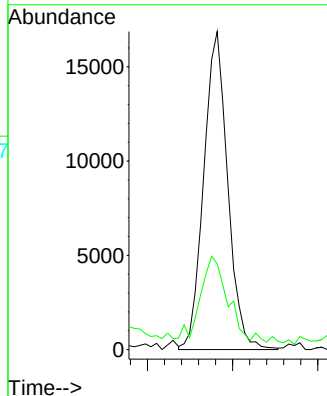
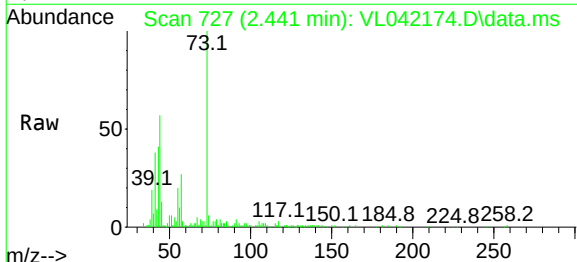
Manual Integrations
APPROVED

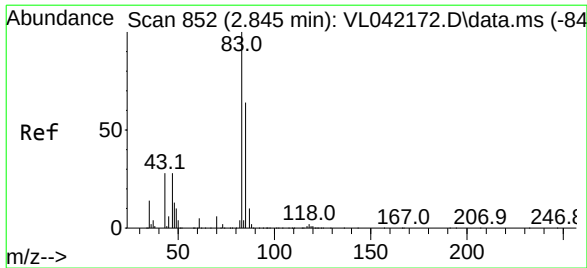
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

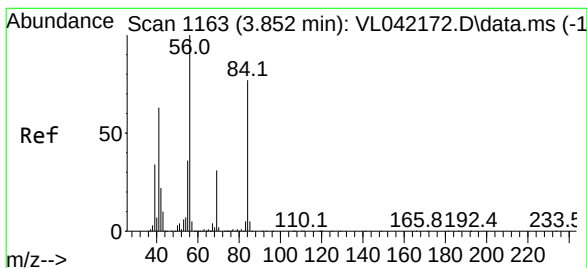
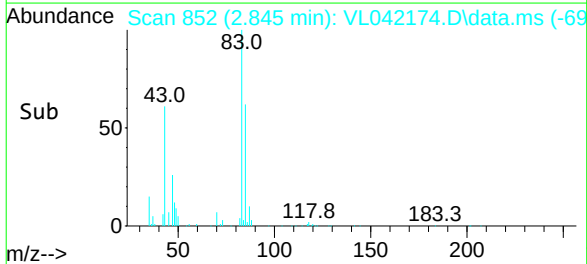
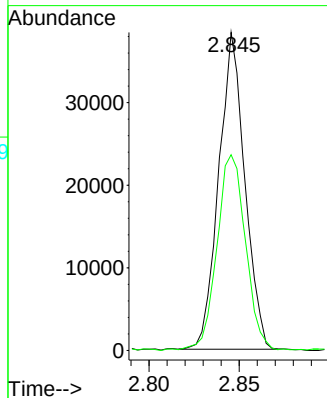
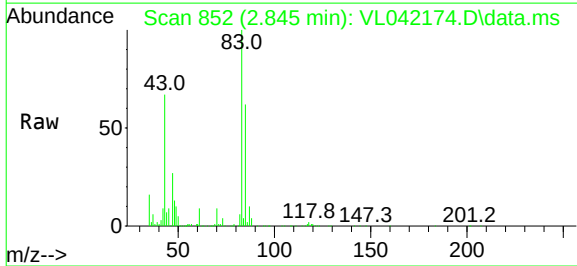
85 61.6 51.4 77.2

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

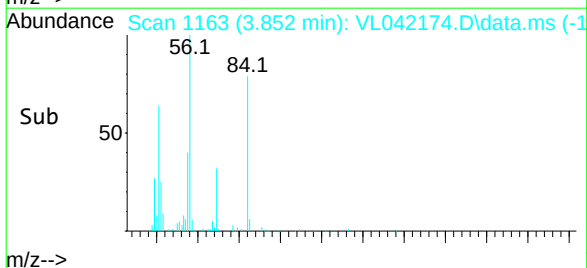
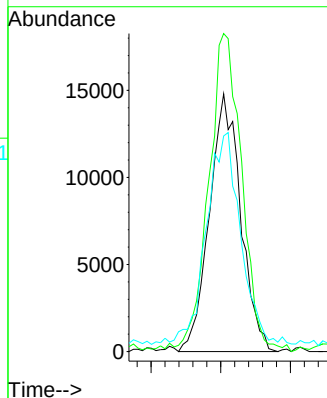
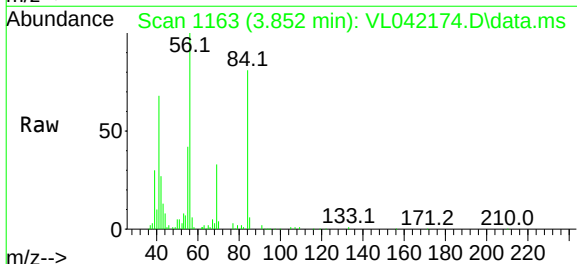
Tgt Ion: 84 Resp: 23052

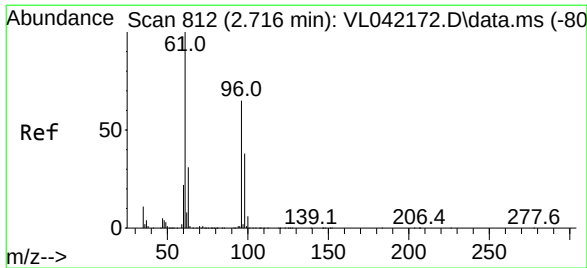
Ion Ratio Lower Upper

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 :

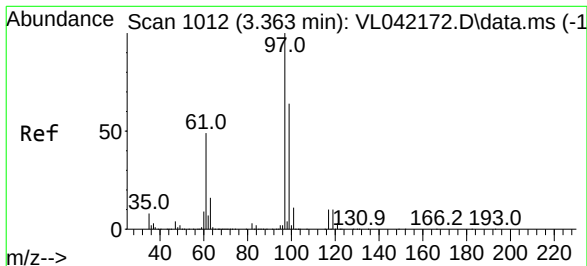
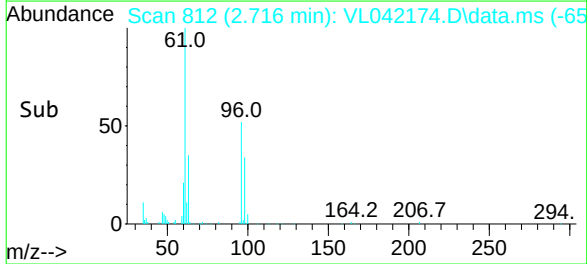
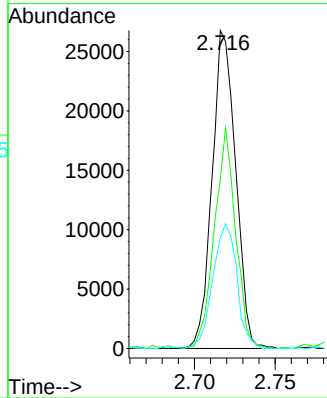
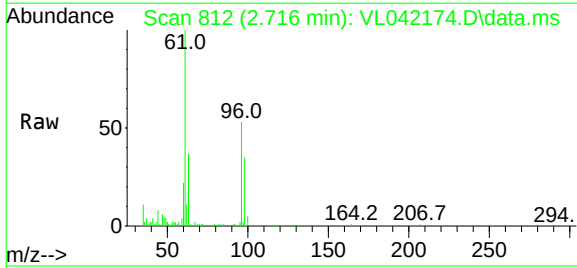
VSTDICC001

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

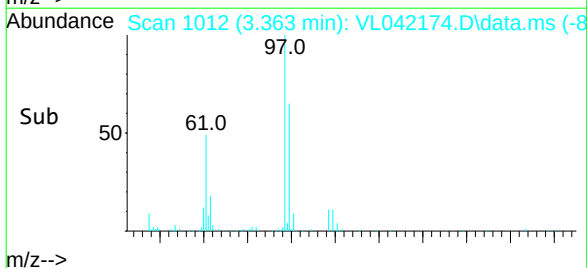
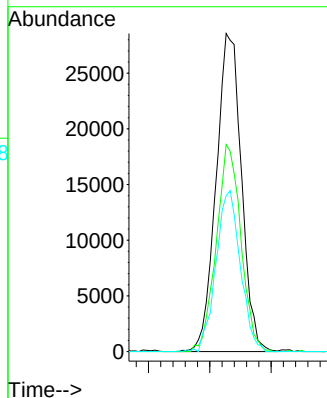
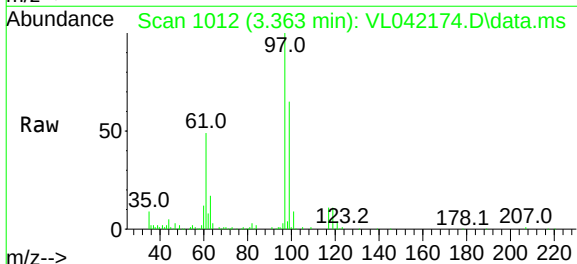
RT: 3.363 min Scan# 1012

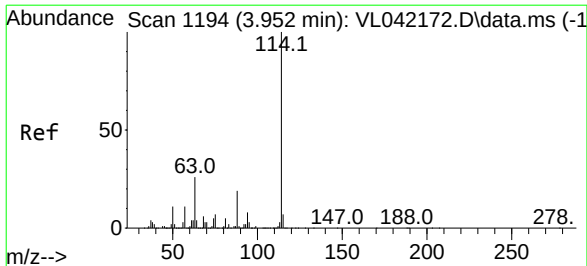
Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

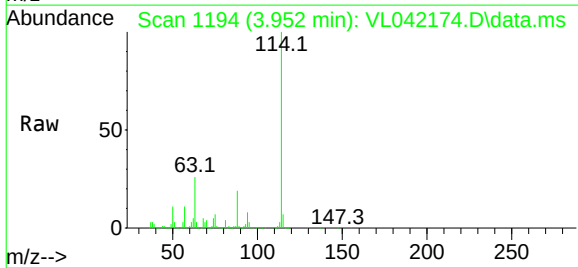
Tgt Ion:	97	Resp:	40993
Ion	Ratio	Lower	Upper
97	100		
99	63.0	51.5	77.3
61	48.8	38.7	58.1





#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

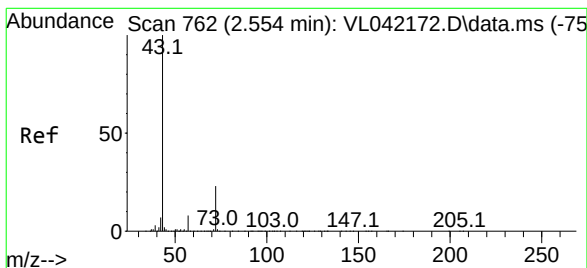
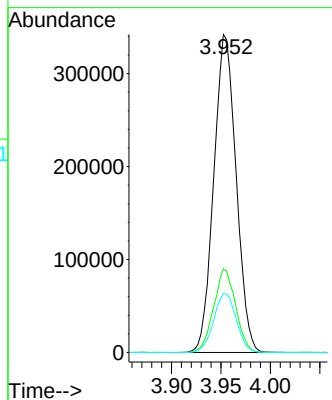
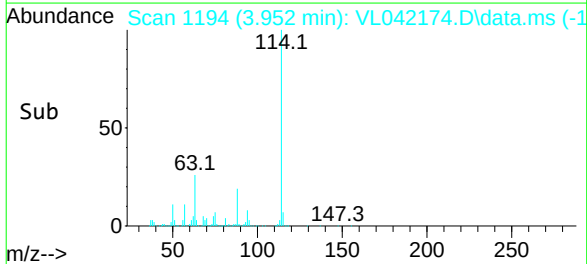
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



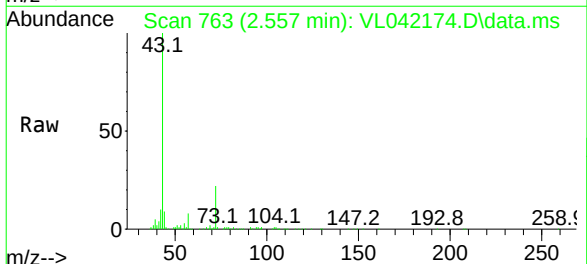
Tgt Ion: 114 Resp: 537244
Ion Ratio Lower Upper
114 100
63 25.8 20.7 31.1
88 18.8 15.0 22.4

Manual Integrations
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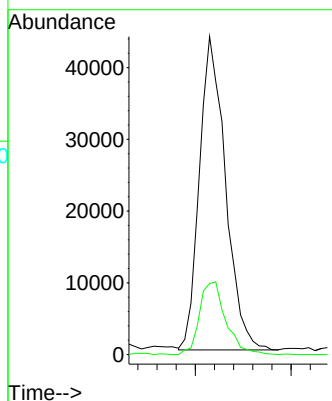
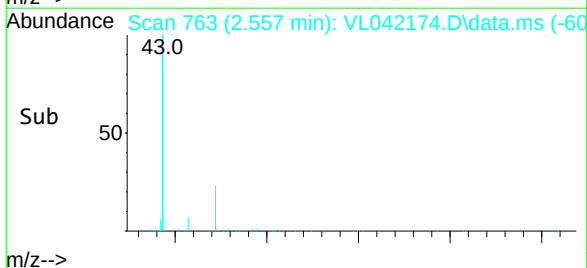
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

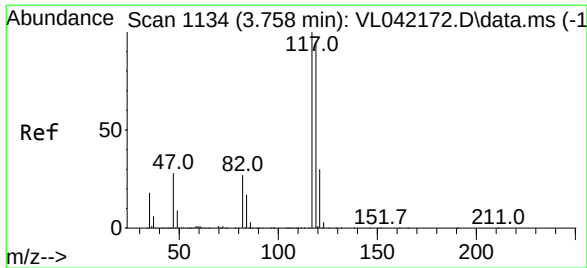


#34
2-Butanone
Concen: 1.063 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30



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

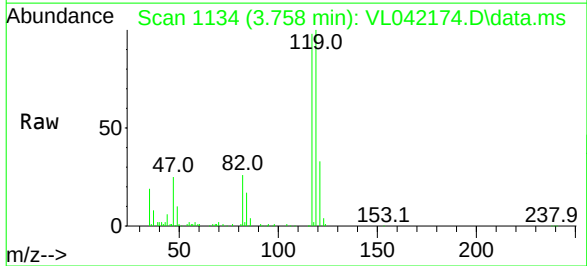
Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

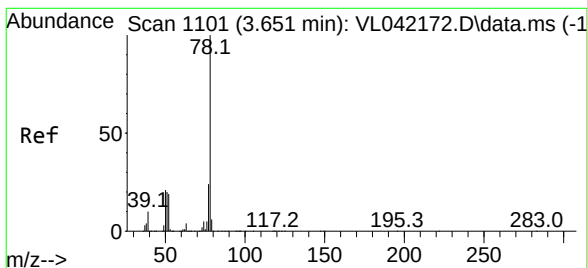
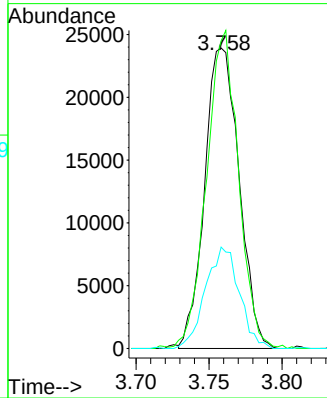
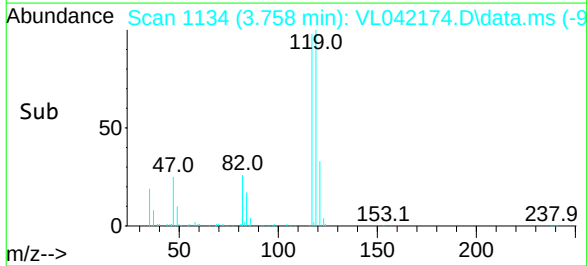


Tgt Ion:	117	Resp:	39345
Ion	Ratio	Lower	Upper
117	100		
119	101.8	76.2	114.2
121	33.7	24.2	36.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#36

Benzene

Concen: 1.036 ppbv

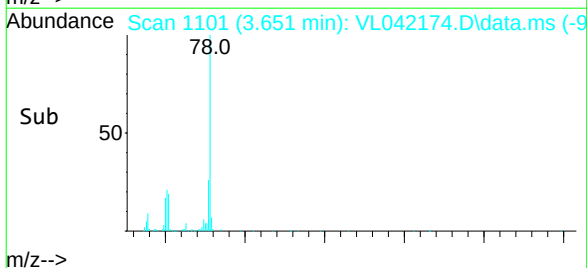
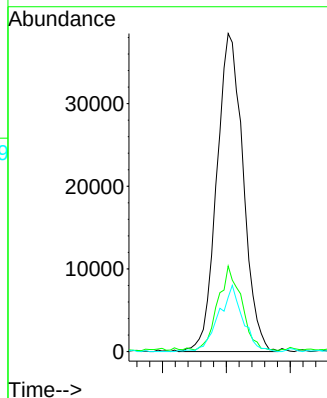
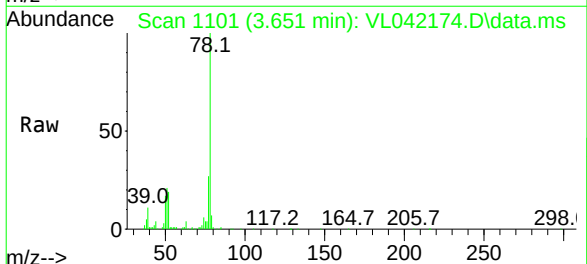
RT: 3.651 min Scan# 1101

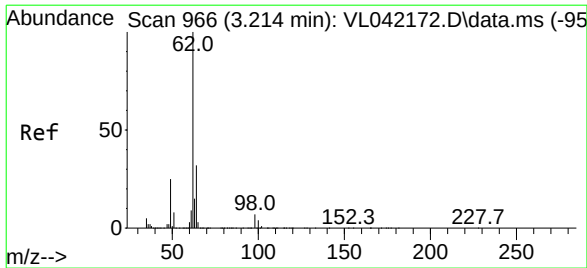
Delta R.T. 0.000 min

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





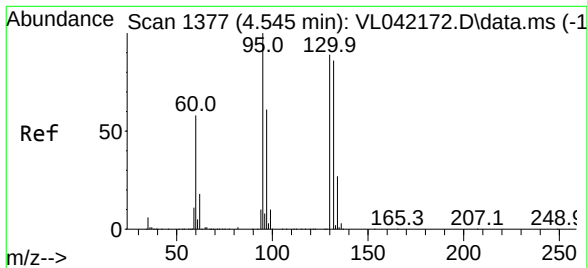
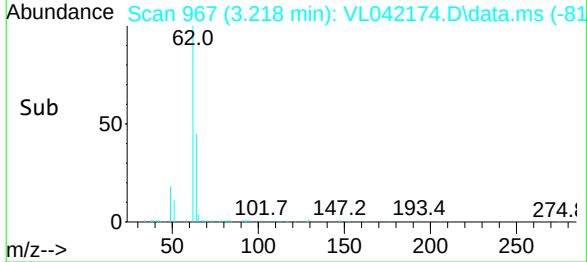
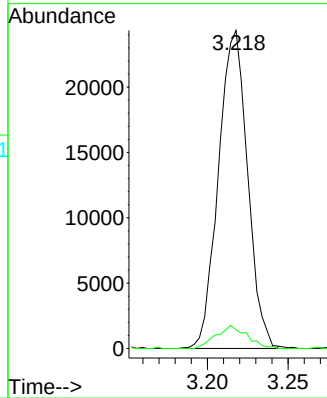
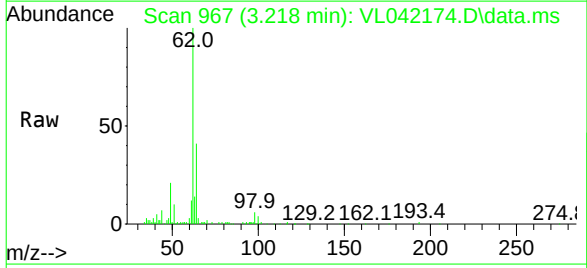
#37
1,2-Dichloroethane
Concen: 1.002 ppbv
RT: 3.218 min Scan# 966
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 62 Resp: 30543
Ion Ratio Lower Upper
62 100
98 7.6 5.4 8.2

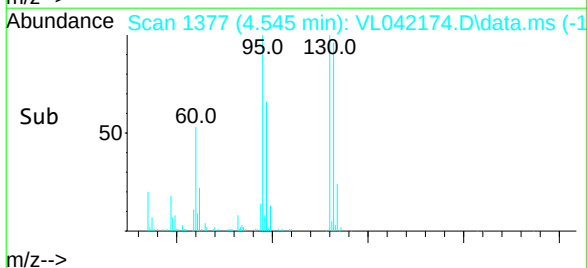
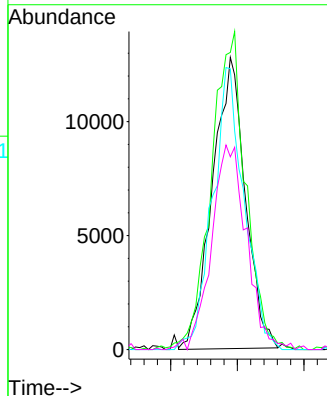
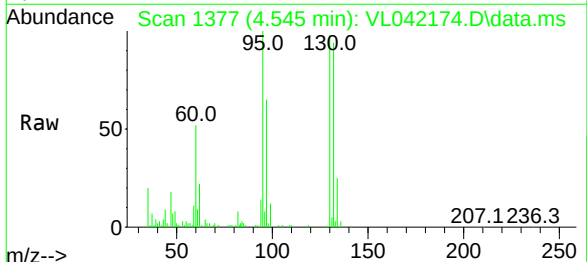
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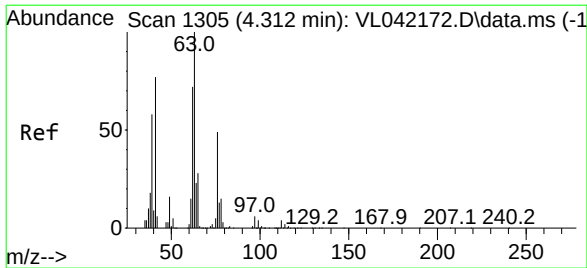
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





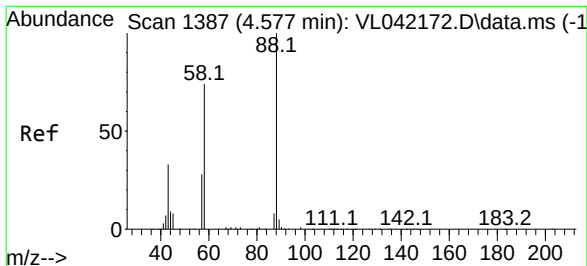
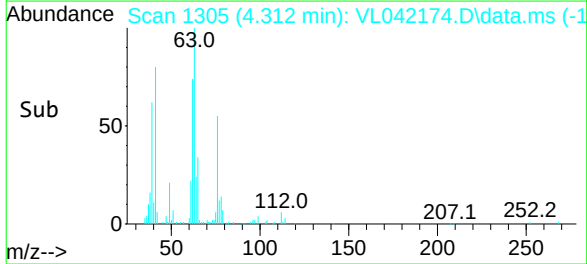
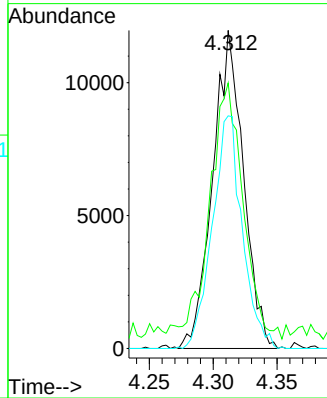
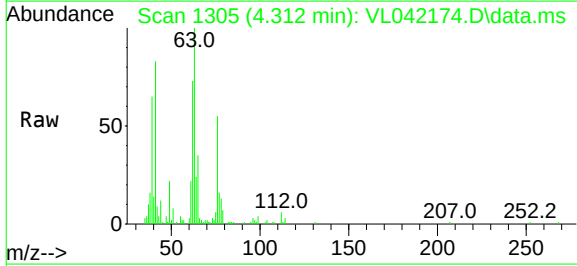
#39
1,2-Dichloropropane
Concen: 1.032 ppbv
RT: 4.312 min Scan# 1305
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
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

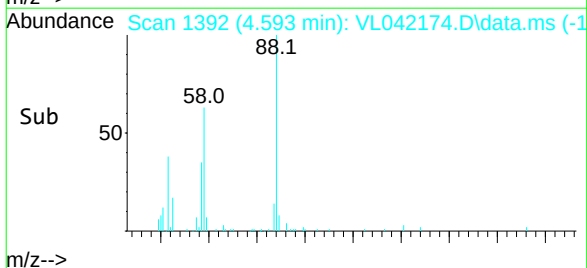
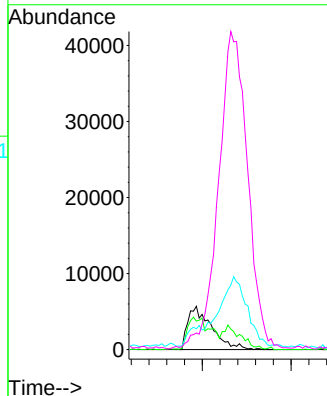
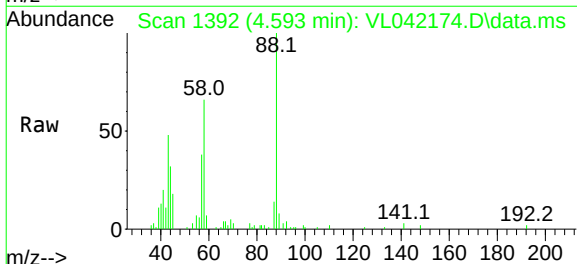
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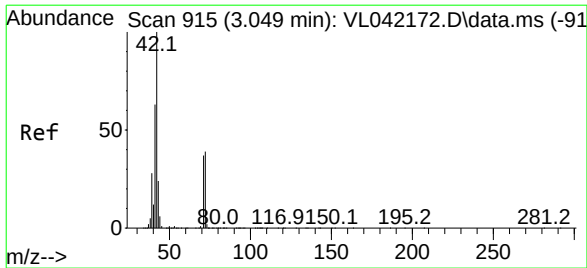
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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 :

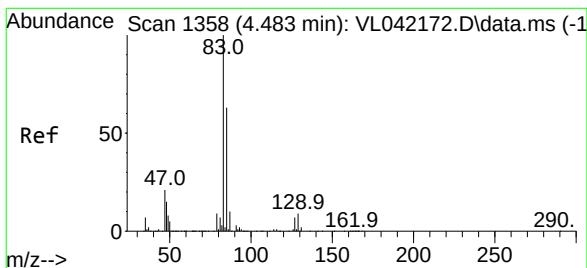
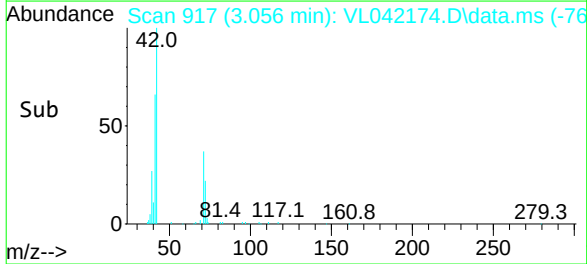
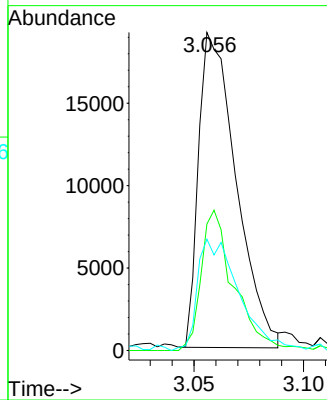
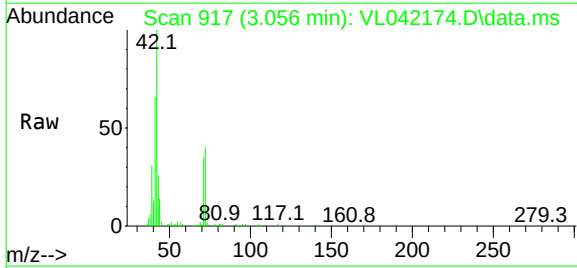
VSTDICC001

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

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#42

Bromodichloromethane

Concen: 0.996 ppbv

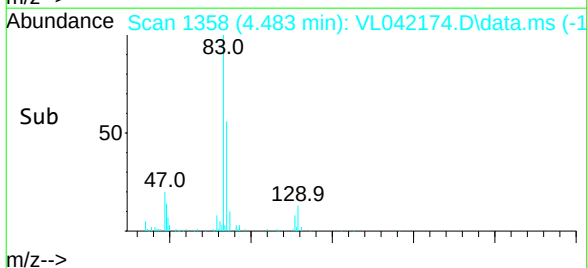
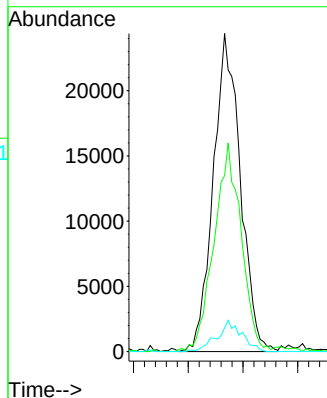
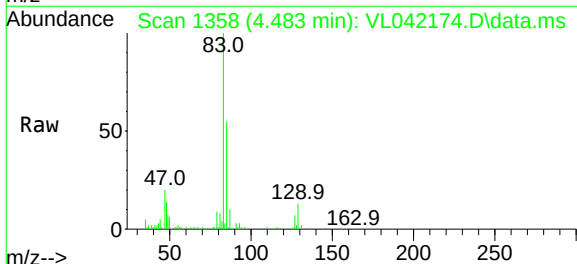
RT: 4.483 min Scan# 1358

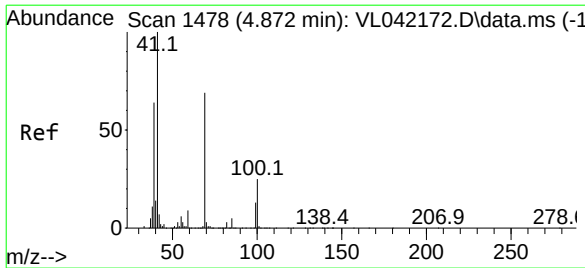
Delta R.T. 0.000 min

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





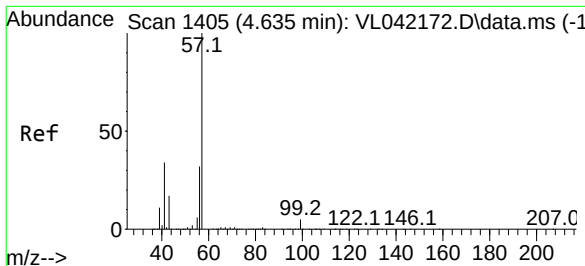
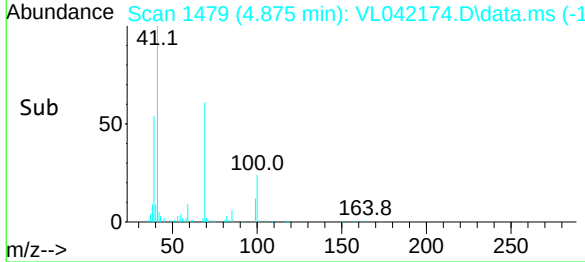
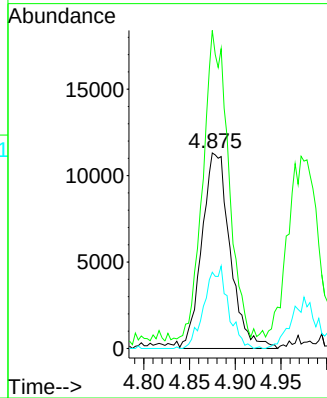
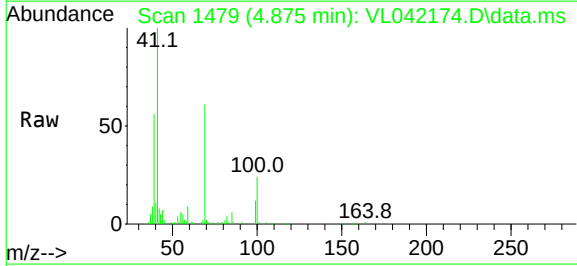
#43
Methyl Methacrylate
Concen: 1.078 ppbv m
RT: 4.875 min Scan# 1478
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

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

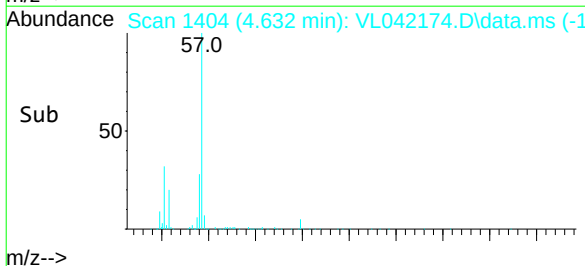
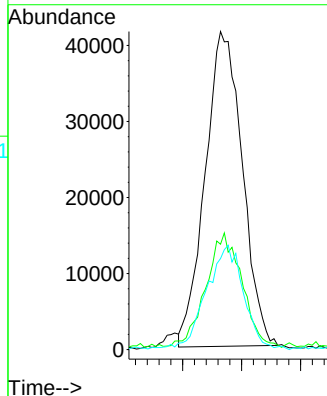
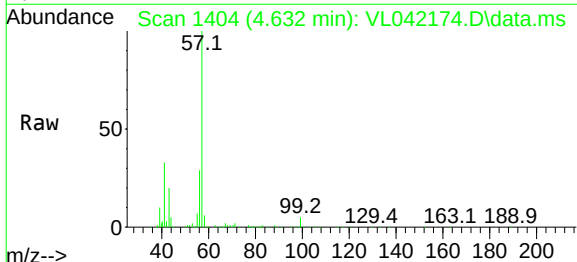
Manual Integrations
APPROVED

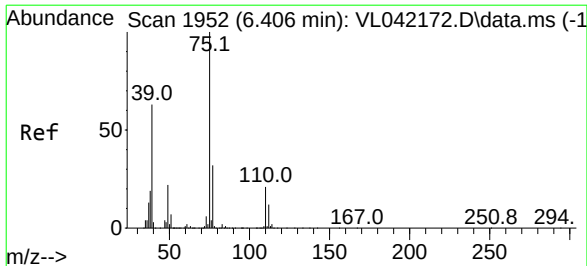
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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# 19

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

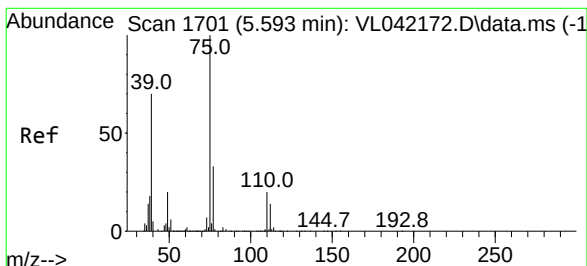
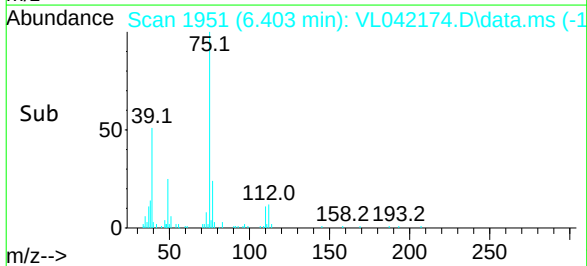
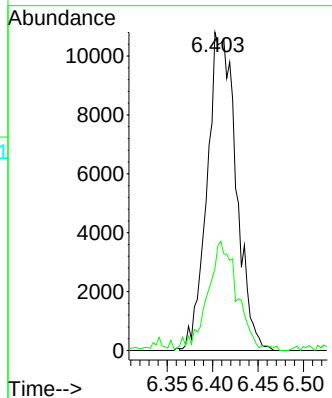
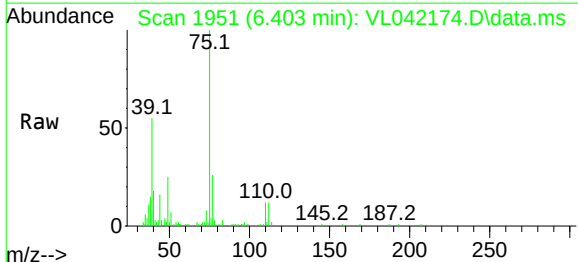
77 25.9 26.0 39.0#

Manual Integrations

APPROVED

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

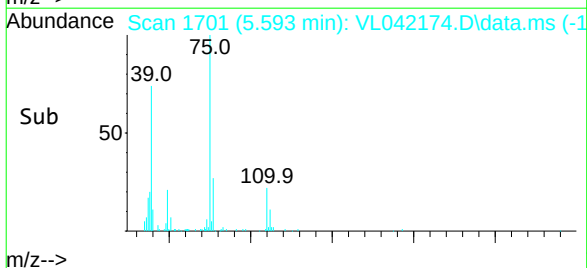
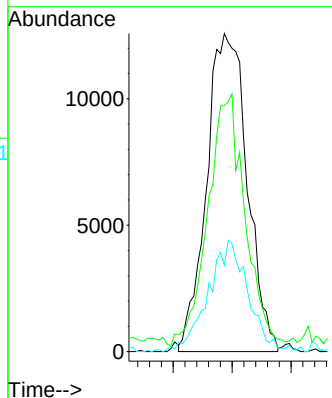
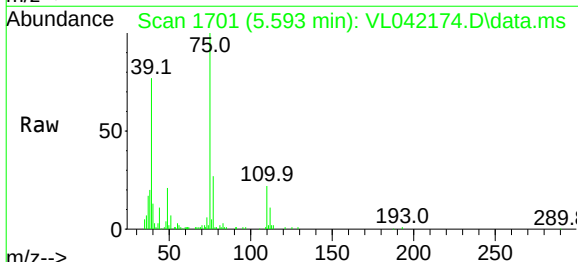
Tgt Ion: 75 Resp: 30063

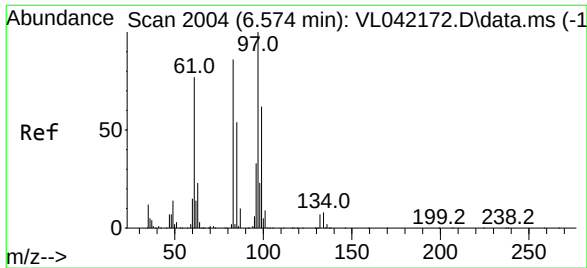
Ion Ratio Lower Upper

75 100

39 74.2 55.8 83.6

77 26.4 26.0 39.0





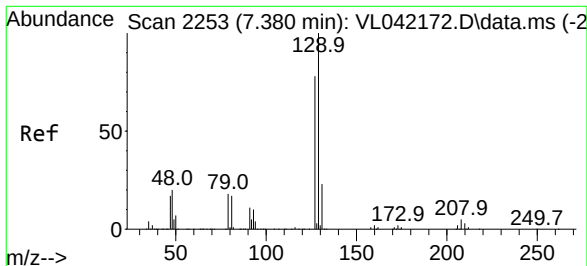
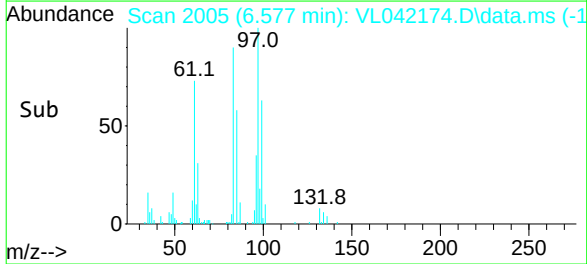
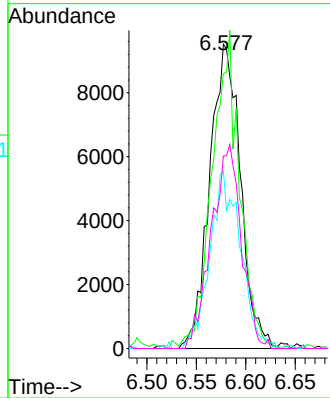
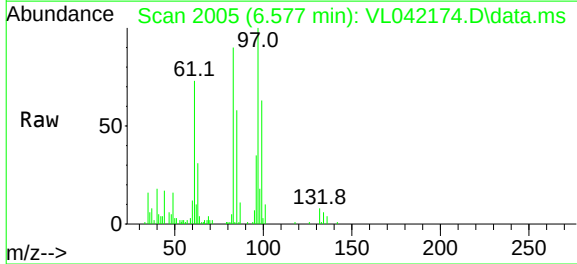
#47
1,1,2-Trichloroethane
Concen: 1.002 ppbv
RT: 6.577 min Scan# 20546
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

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

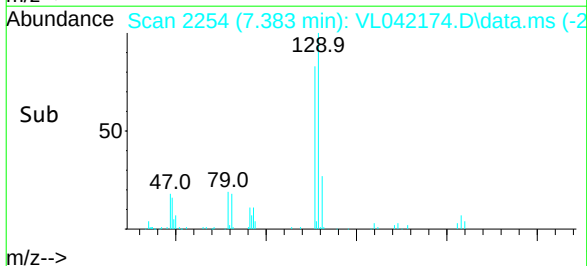
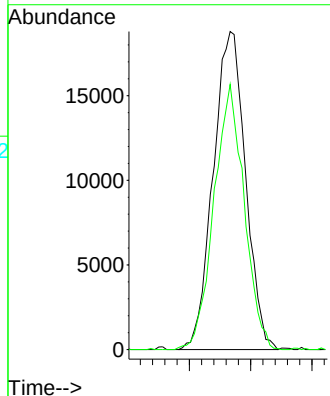
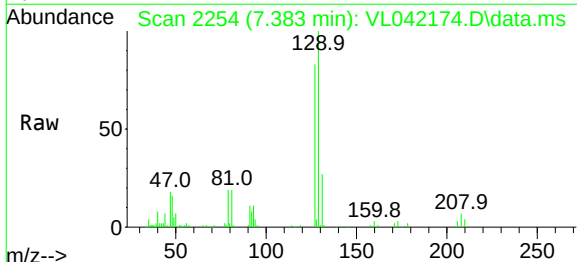
Manual Integrations
APPROVED

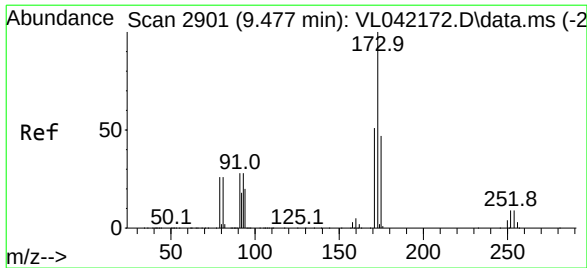
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





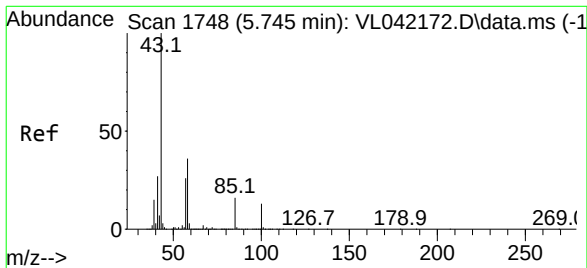
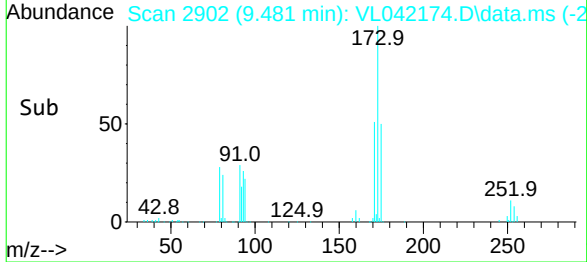
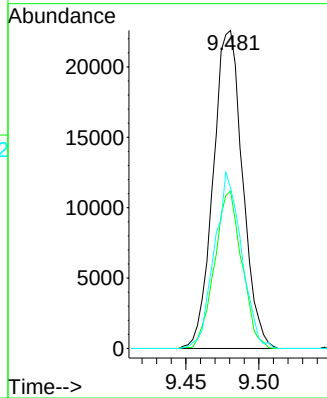
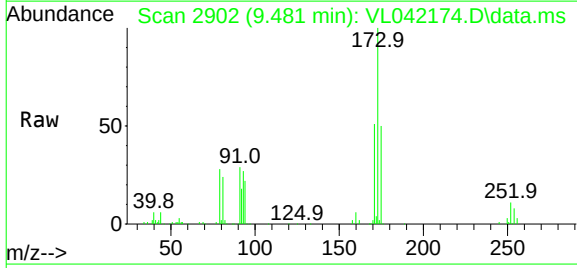
#49
Bromoform
Concen: 1.013 ppbv
RT: 9.481 min Scan# 2901
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

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

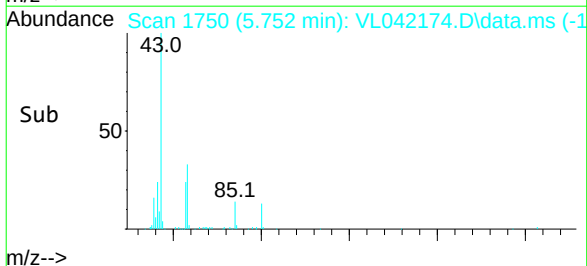
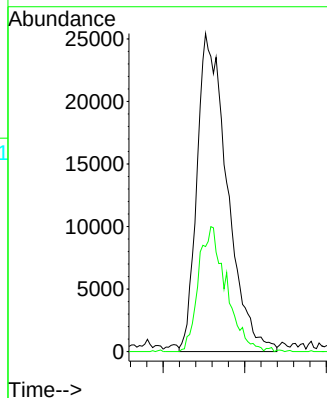
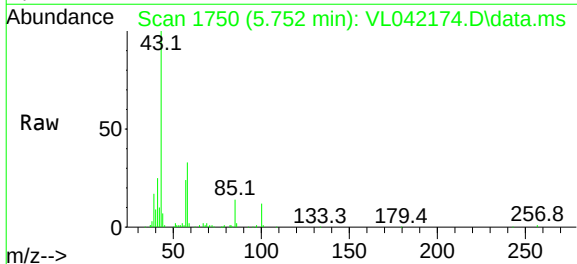
Manual Integrations
APPROVED

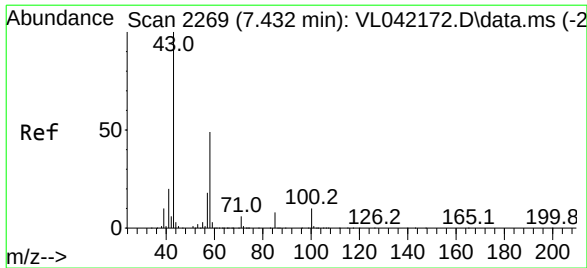
Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025



#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

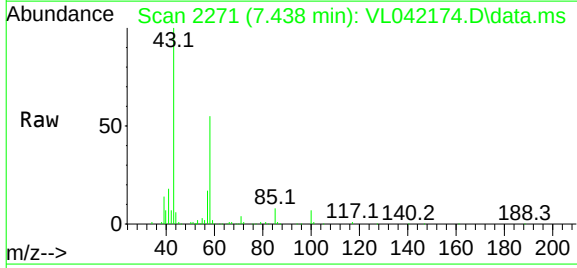
Tgt Ion: 43 Resp: 65226
Ion Ratio Lower Upper
43 100
58 0.0 29.0 43.6





#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

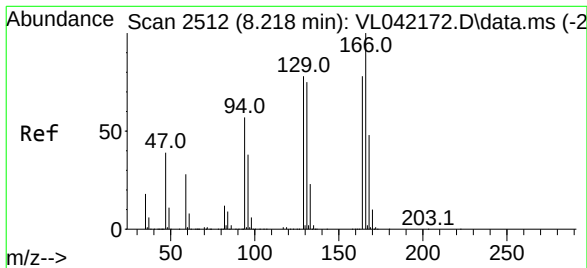
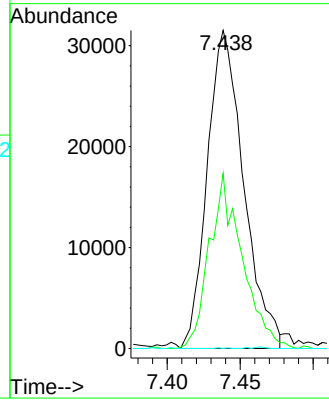
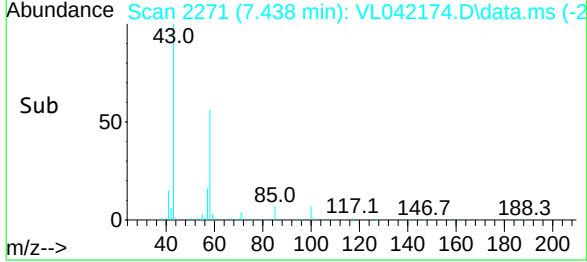
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



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#

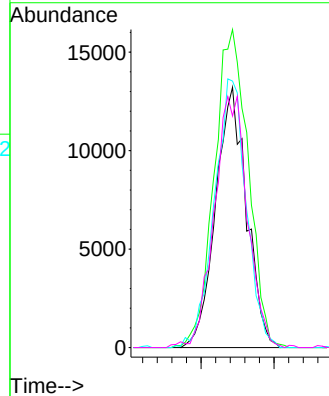
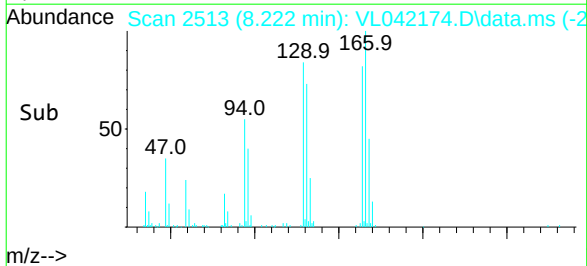
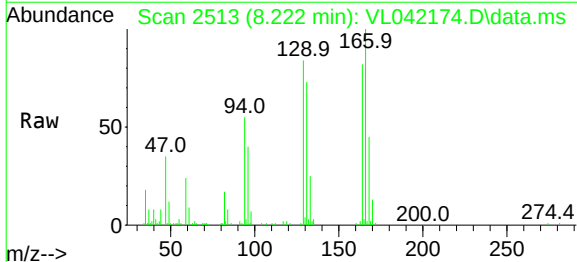
Manual Integrations
APPROVED

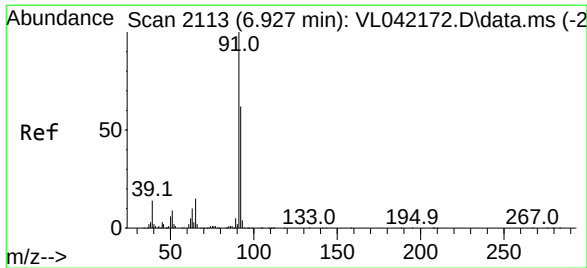
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

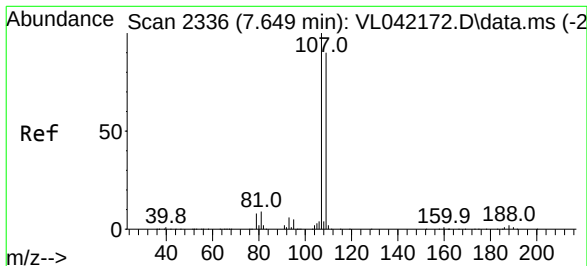
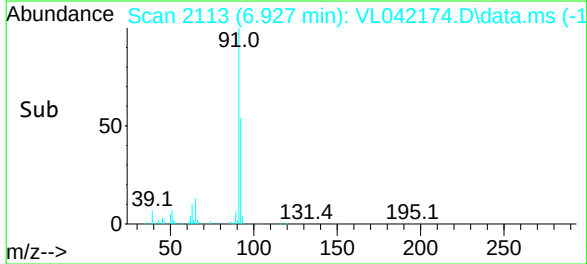
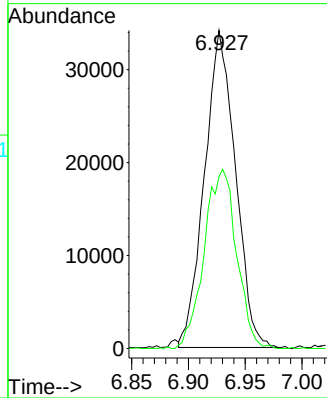
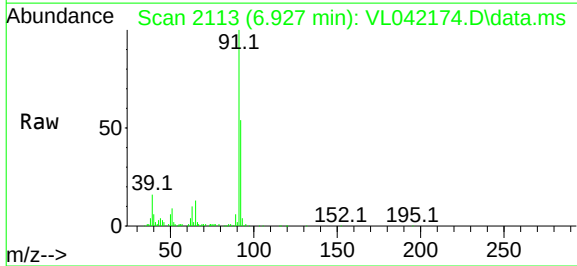
92 59.4 48.4 72.6

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

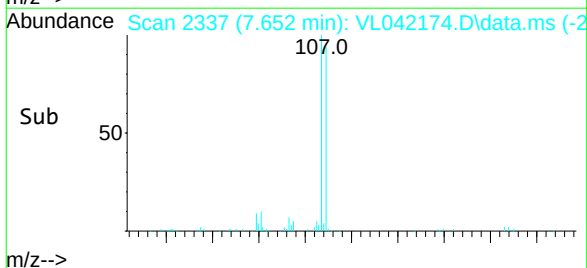
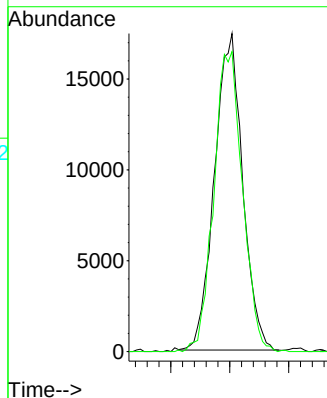
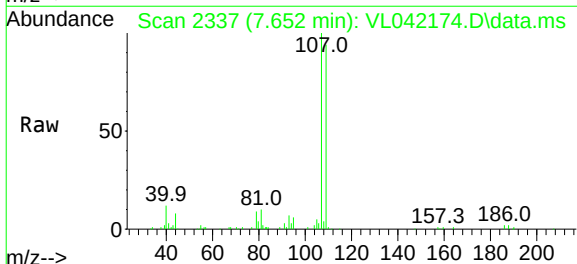
Acq: 27 Mar 2025 09:30

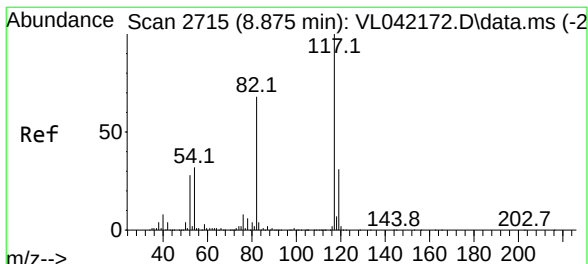
Tgt Ion:107 Resp: 28879

Ion Ratio Lower Upper

107 100

109 94.8 72.2 108.4





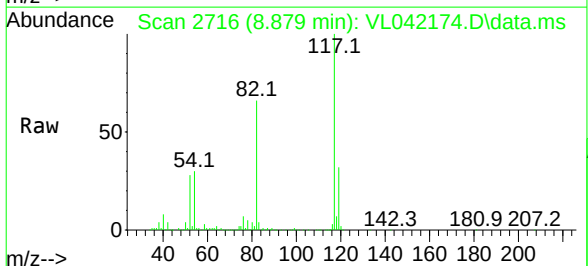
#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 8.879 min Scan# 2716
 Delta R.T. 0.003 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

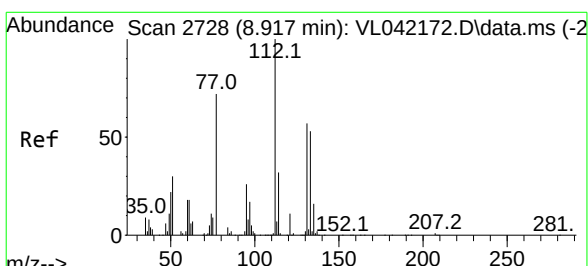
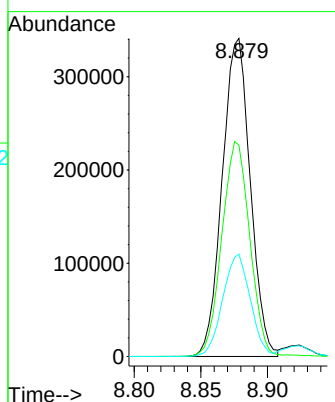
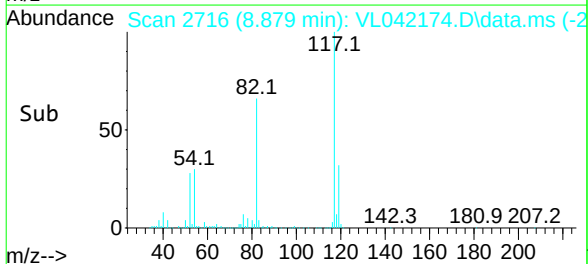
VSTDIC001



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

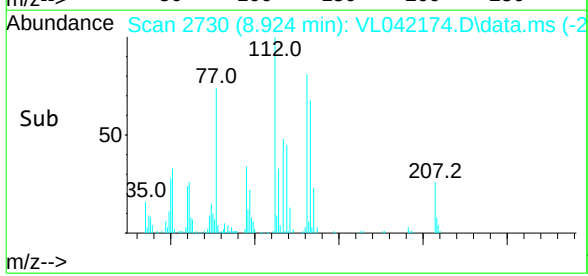
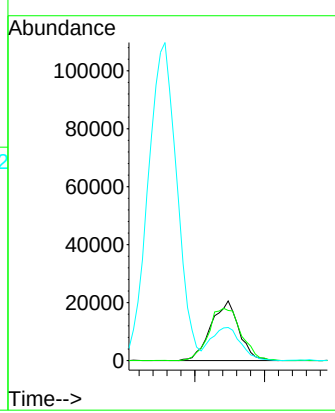
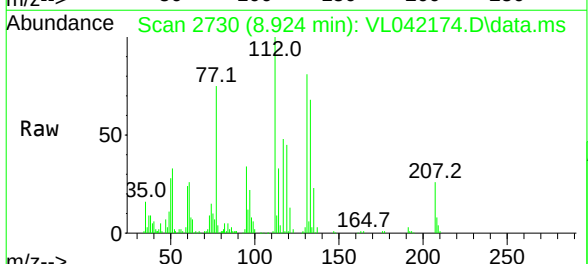
Manual Integrations
 APPROVED

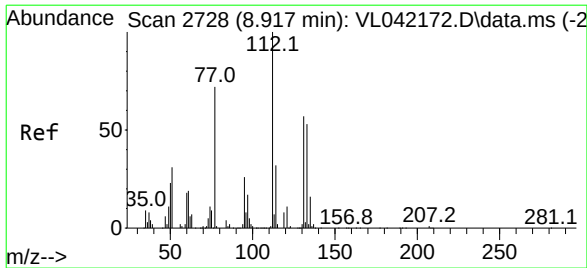
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#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

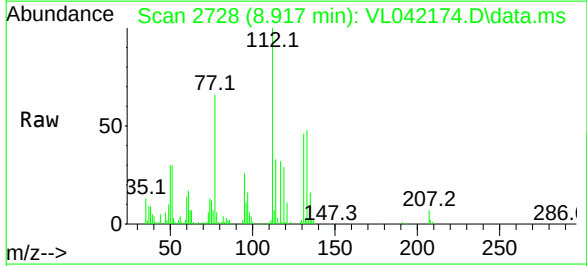
Tgt Ion:	131	Resp:	28764
Ion	Ratio	Lower	Upper
131	100		
133	101.7	76.6	114.8
119	44.1	49.8	74.6





#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

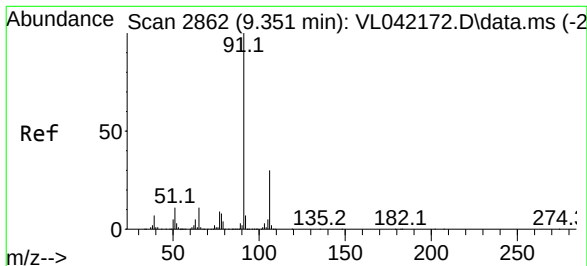
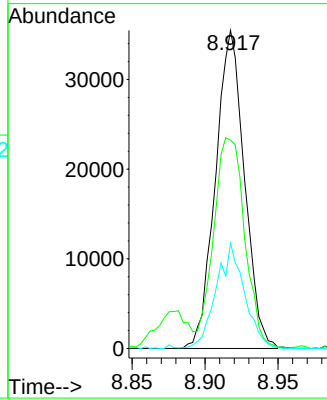
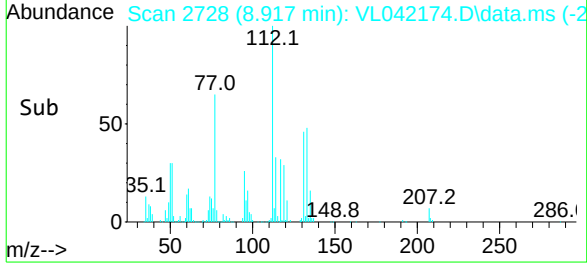
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



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

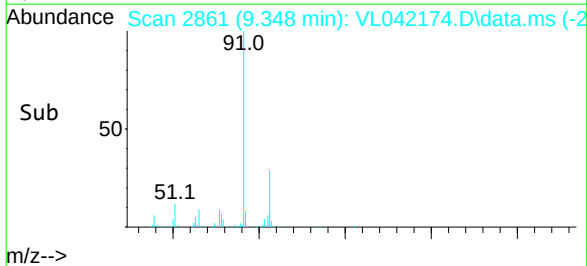
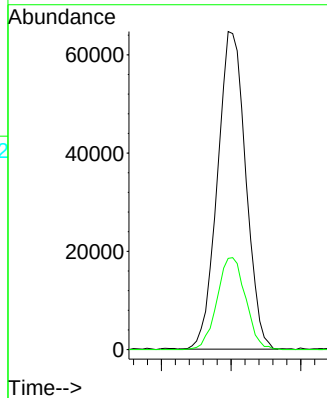
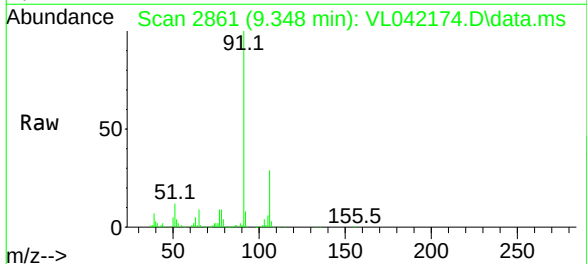
Manual Integrations
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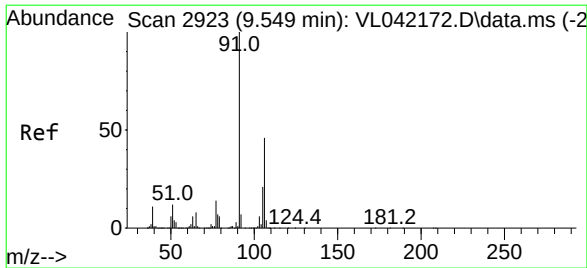
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





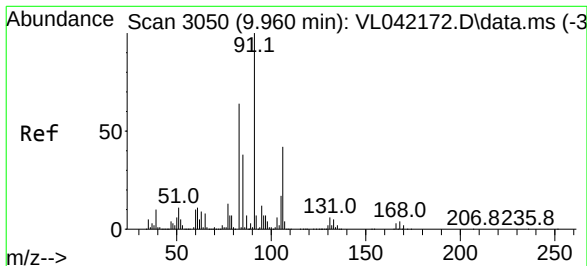
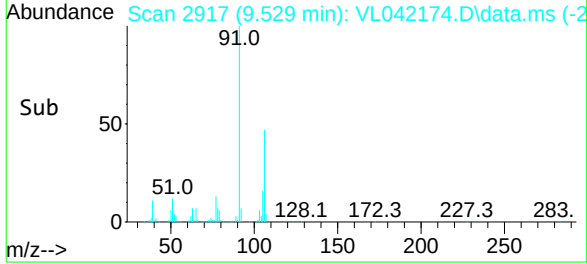
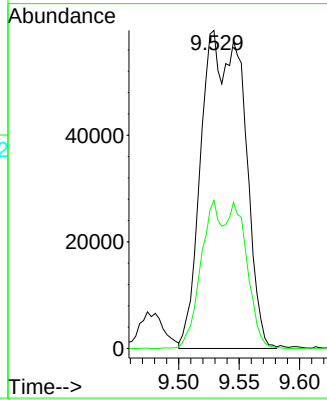
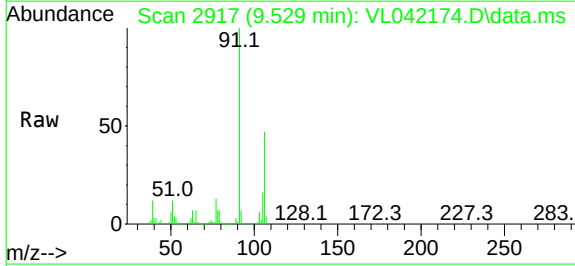
#59
m/p-Xylene
Concen: 2.073 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.019 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 91 Resp: 147162
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6#

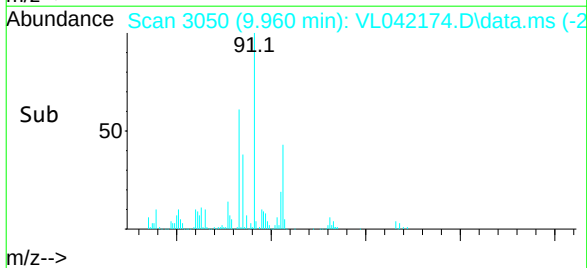
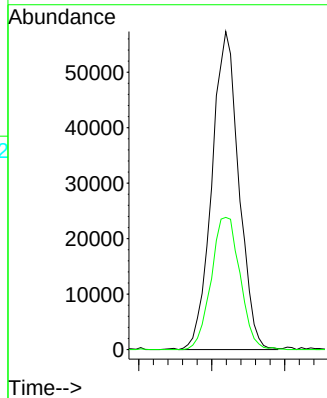
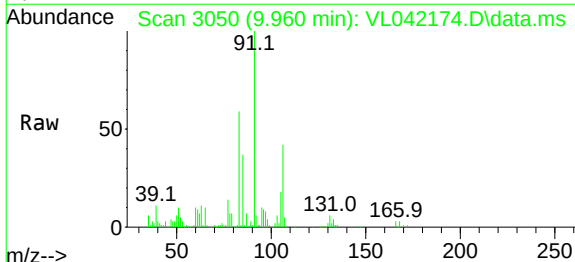
Manual Integrations
APPROVED

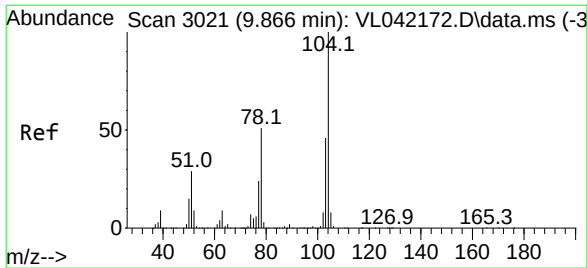
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

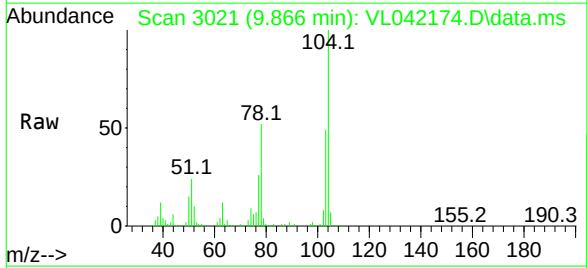
Tgt Ion: 91 Resp: 73702
Ion Ratio Lower Upper
91 100
106 44.3 20.8 62.5





#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

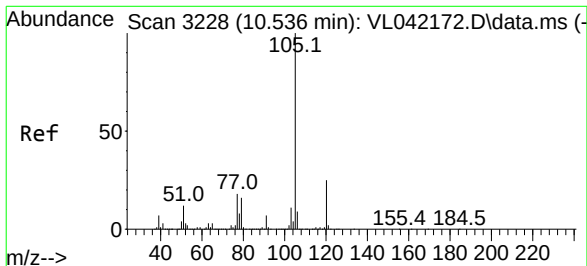
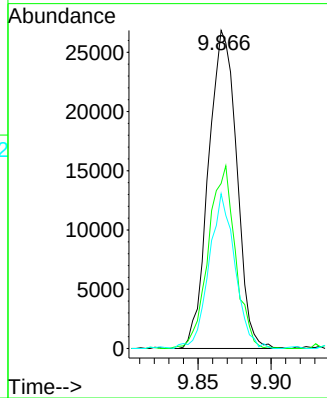
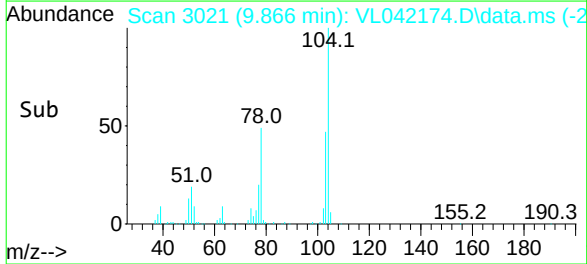
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



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

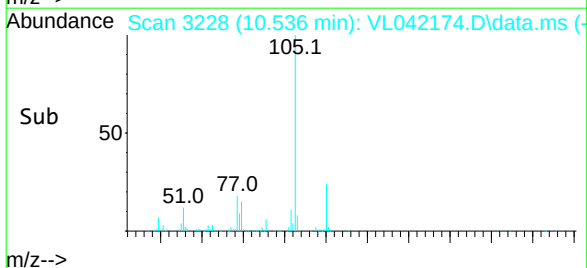
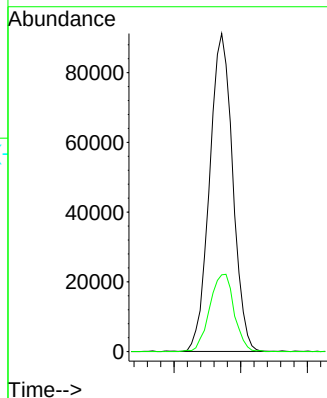
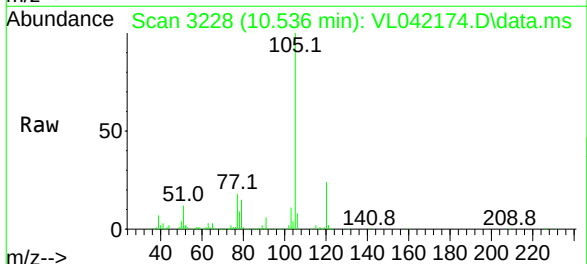
Manual Integrations
APPROVED

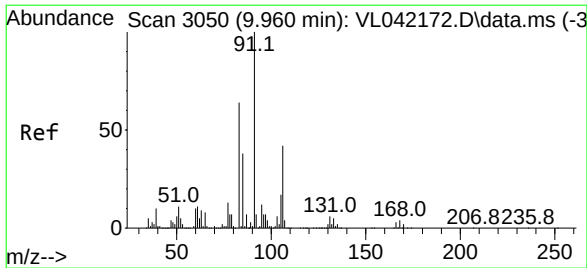
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

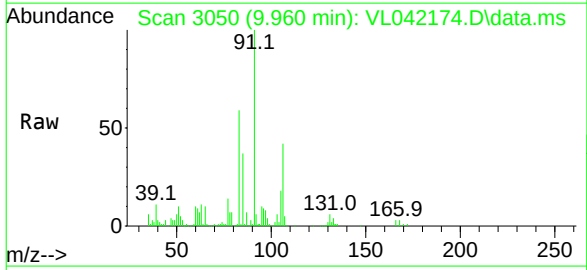
Tgt Ion:105 Resp: 109897
Ion Ratio Lower Upper
105 100
120 25.7 19.9 29.9





#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

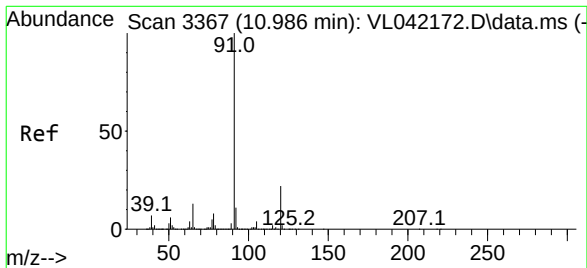
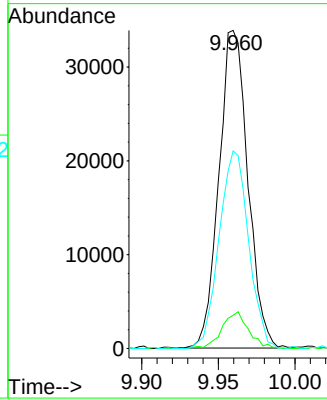
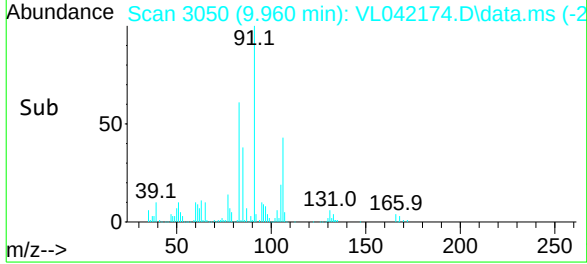
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



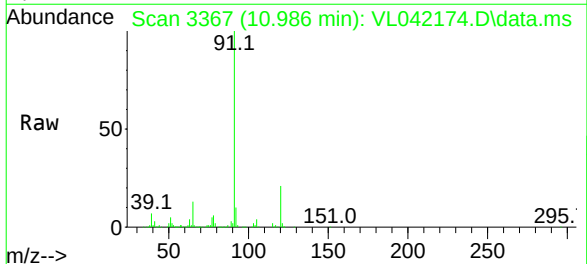
Tgt Ion	Ratio	Lower	Upper
83	100		
131	10.6	4.8	14.4
85	64.0	32.5	97.5

Manual Integrations
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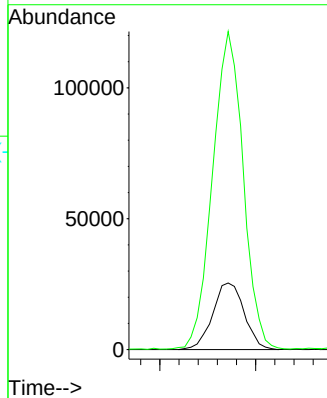
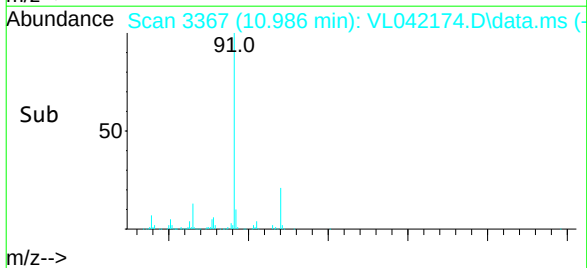
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

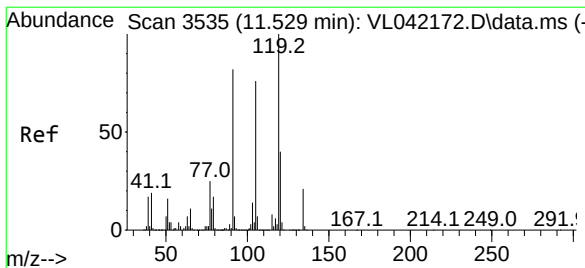


#64
n-propylbenzene
Concen: 1.062 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30



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 :

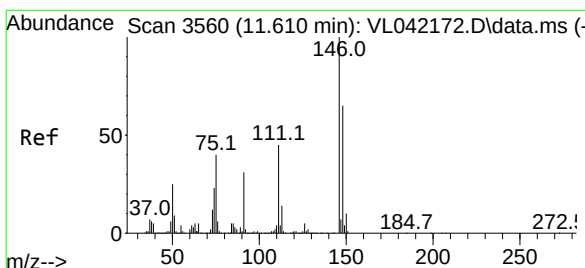
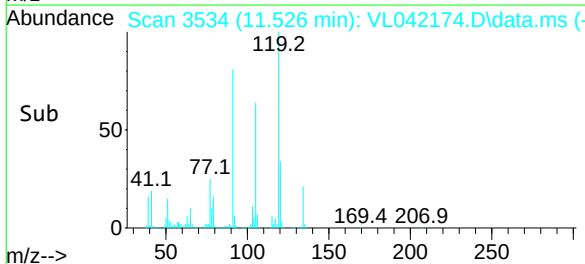
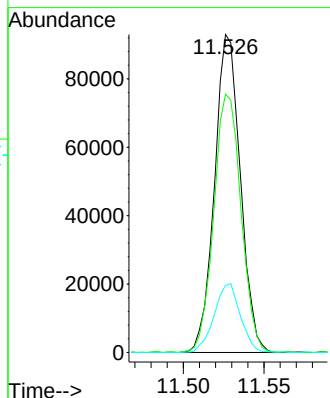
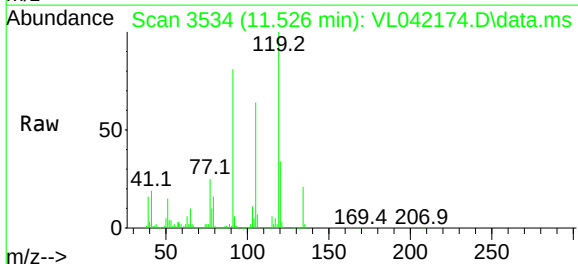
VSTDIC001

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

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Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#66

Benzyl Chloride

Concen: 1.022 ppbv

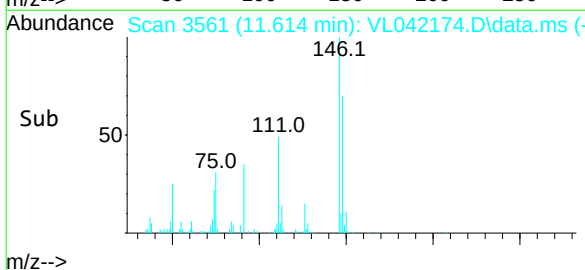
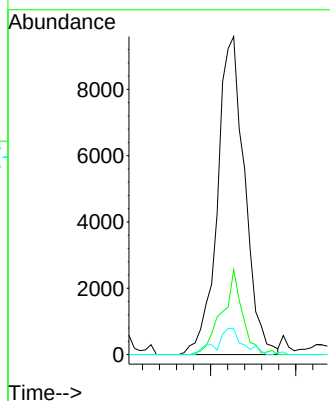
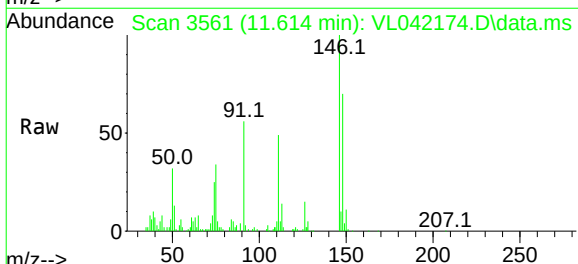
RT: 11.614 min Scan# 3561

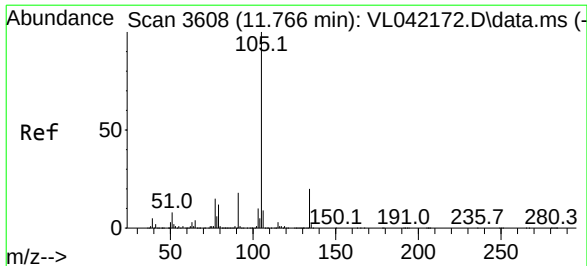
Delta R.T. 0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

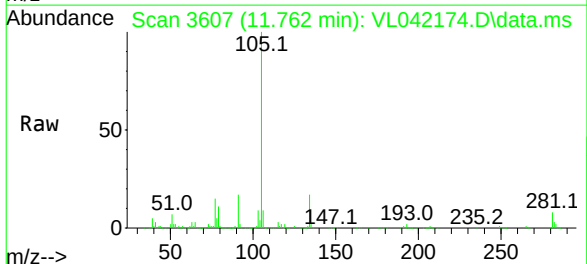
Tgt Ion:	91	Resp:	10660
Ion	Ratio	Lower	Upper
91	100		
126	20.0	13.8	20.6
128	8.0	4.5	6.7





#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

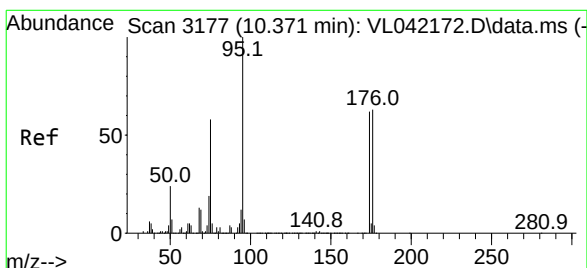
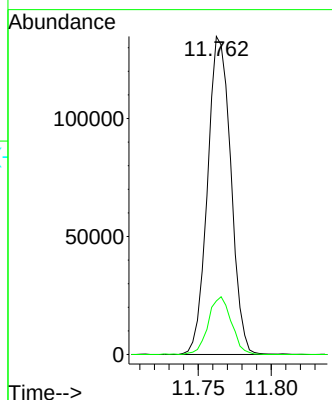
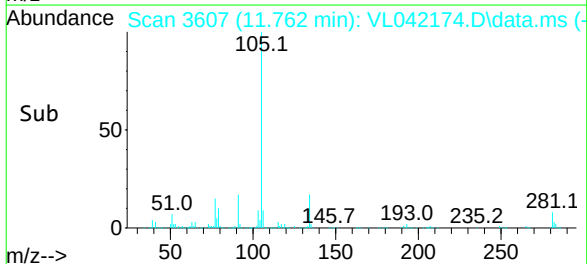
Instrument : MSVOA_L
 ClientSampleId : VSTDIC001



Tgt Ion: 105 Resp: 149660
 Ion Ratio Lower Upper
 105 100
 134 18.1 15.5 23.3

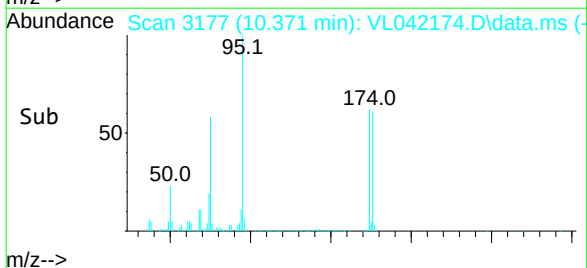
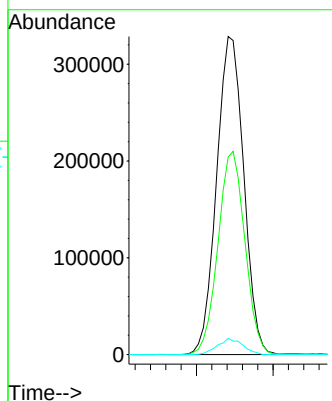
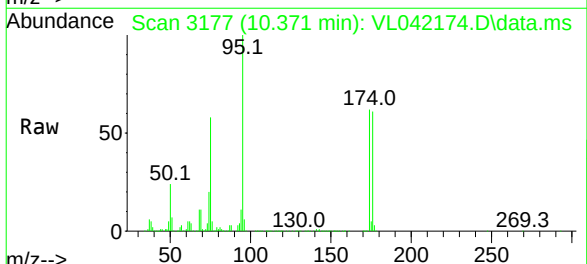
Manual Integrations
 APPROVED

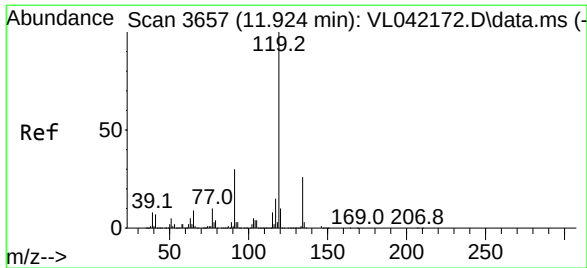
Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025



#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





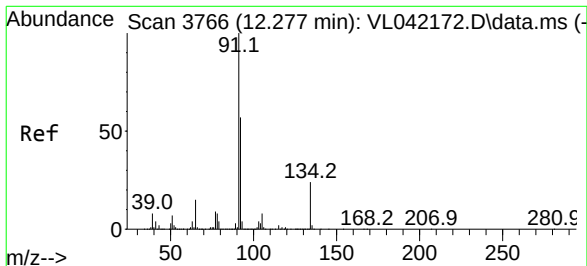
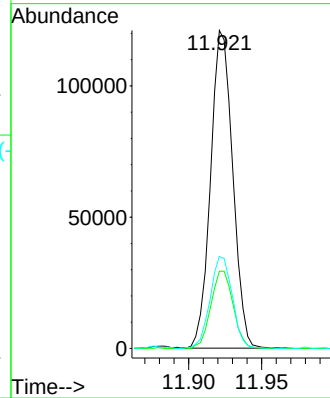
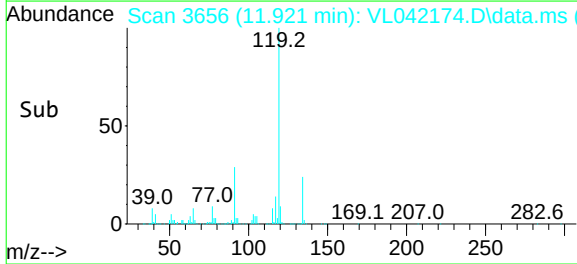
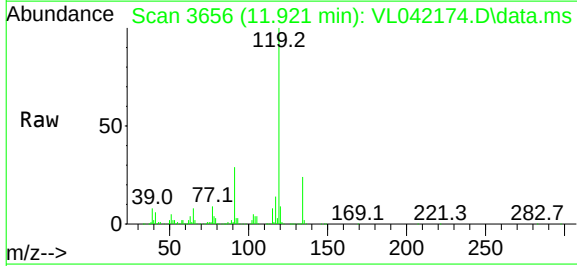
#69
p-Isopropyltoluene
Concen: 1.084 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

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

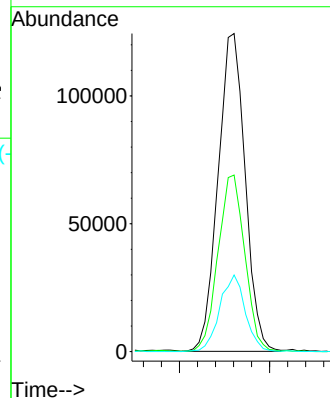
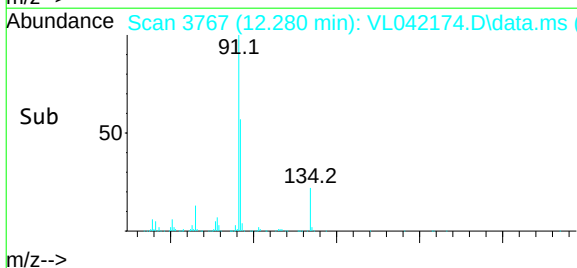
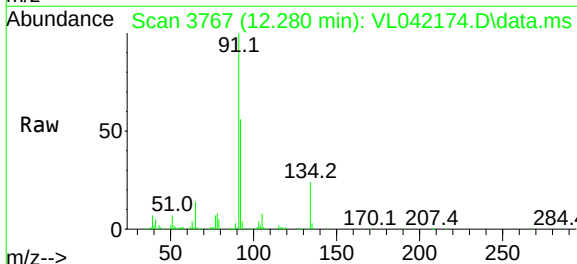
Manual Integrations
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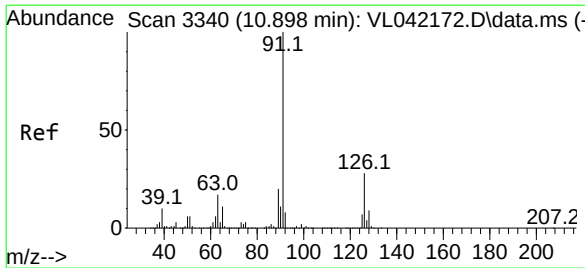
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





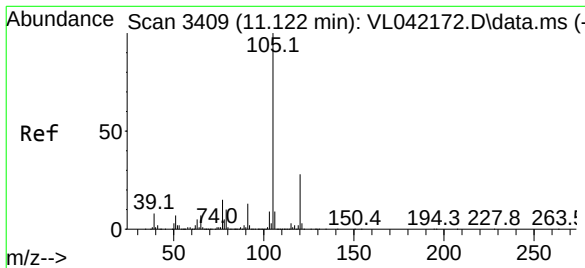
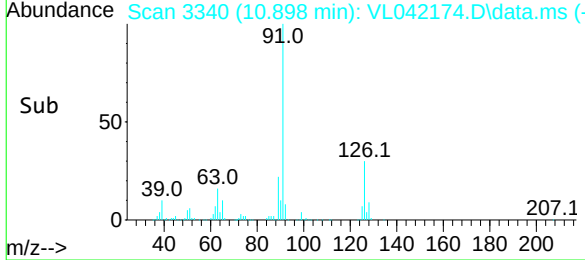
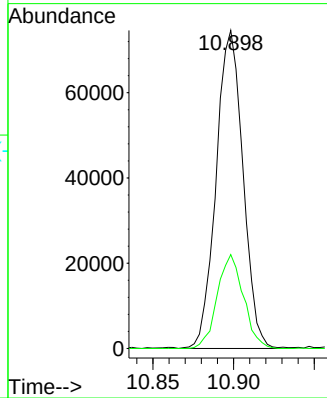
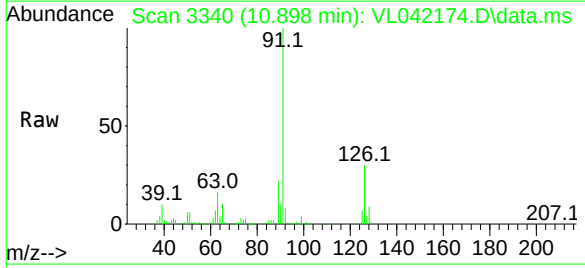
#71
2-Chlorotoluene
Concen: 1.047 ppbv
RT: 10.898 min Scan# 3340
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 91 Resp: 86356
Ion Ratio Lower Upper
91 100
126 28.8 11.6 46.4

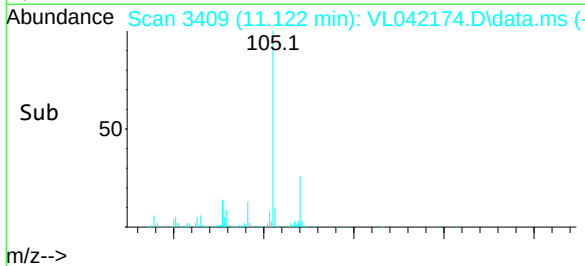
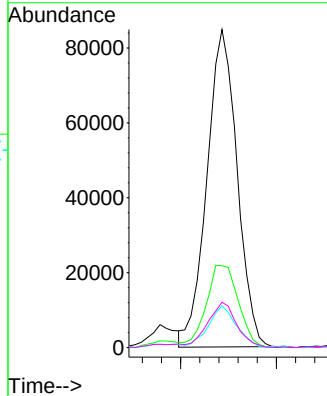
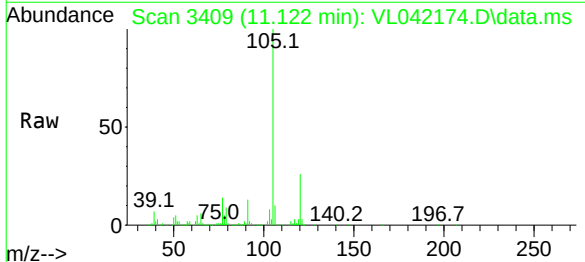
Manual Integrations
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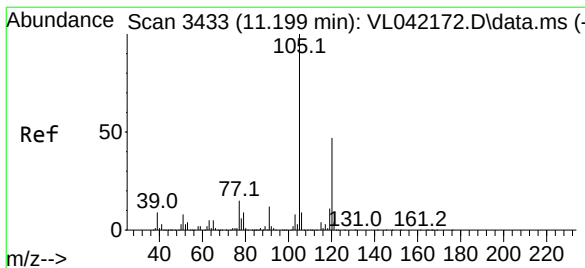
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

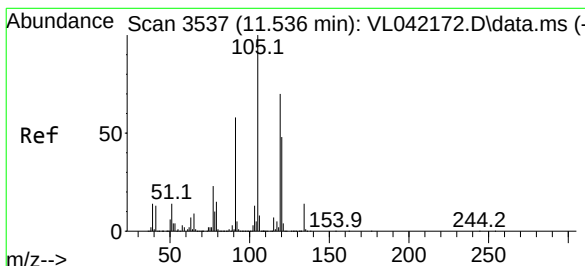
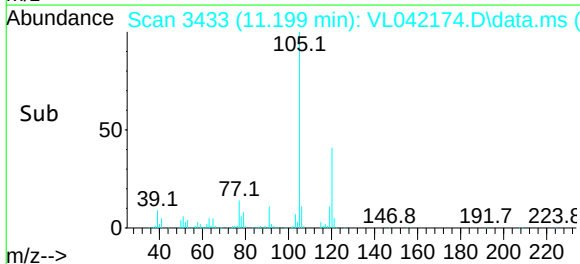
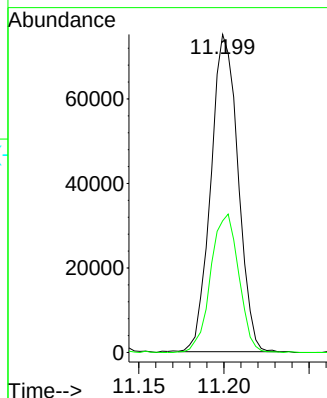
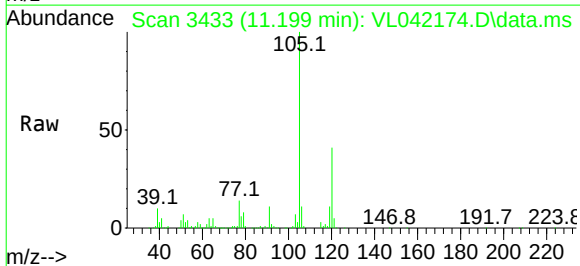
120 41.3 37.4 56.0

Manual Integrations

APPROVED

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

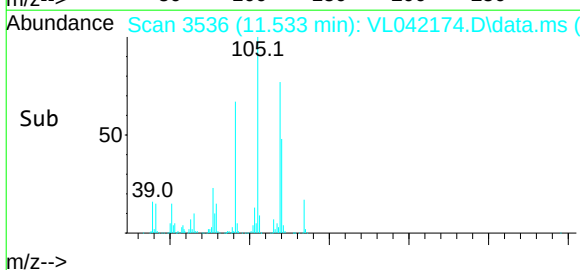
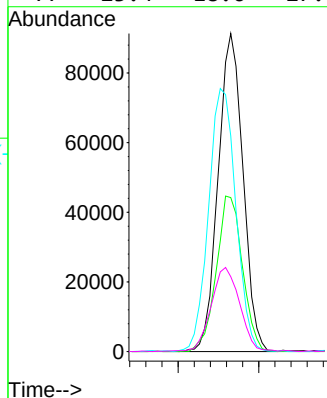
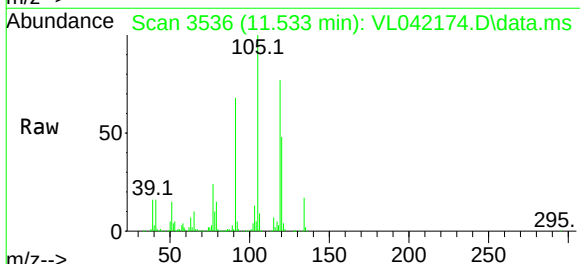
Ion Ratio Lower Upper

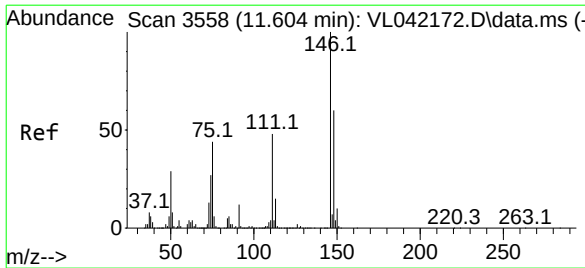
105 100

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 :

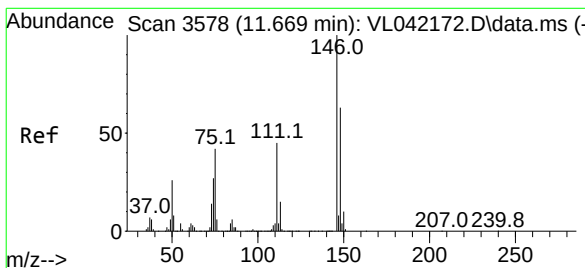
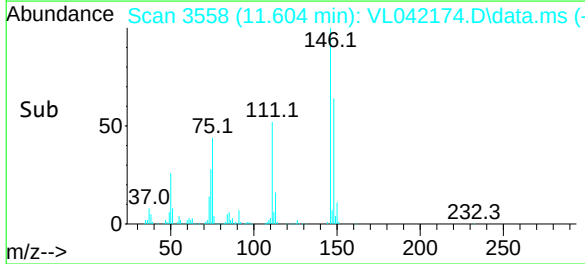
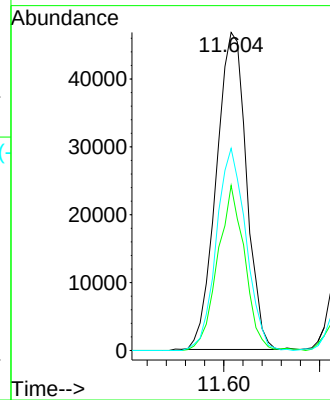
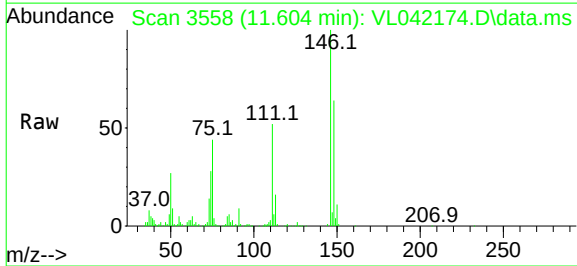
VSTDICC001

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

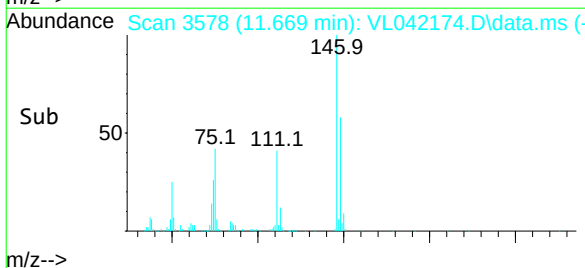
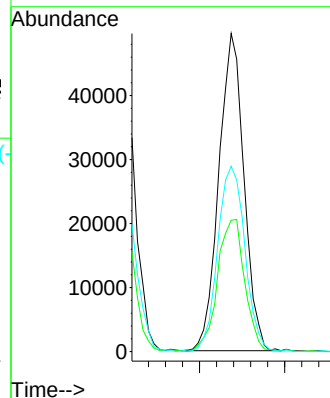
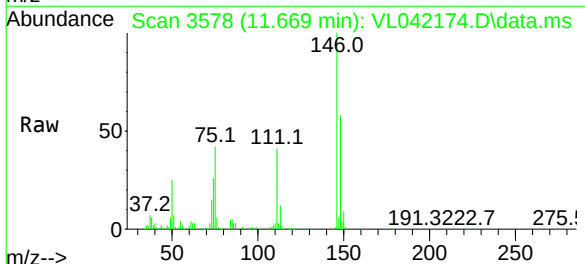
RT: 11.669 min Scan# 3578

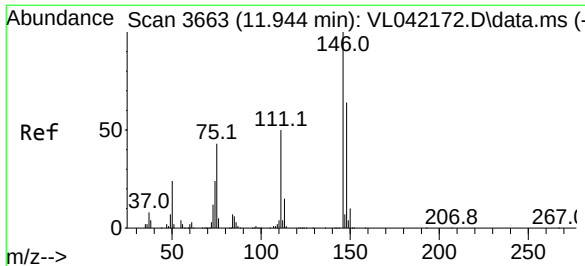
Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

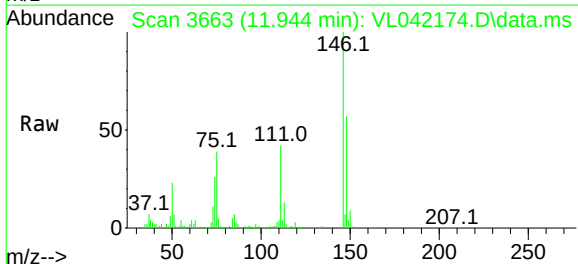
Tgt Ion:	146	Resp:	50841
Ion Ratio	Lower	Upper	
146	100		
111	45.4	23.0	69.0
148	63.6	31.9	95.7





#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

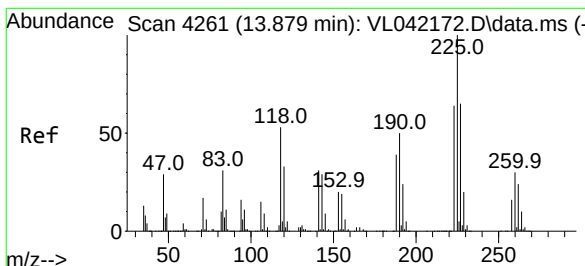
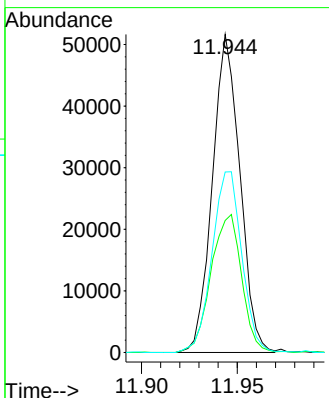
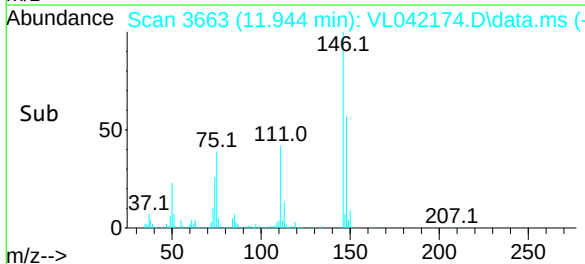
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion	Ratio	Lower	Upper
146	100		
111	48.6	24.8	74.3
148	61.9	31.6	94.8

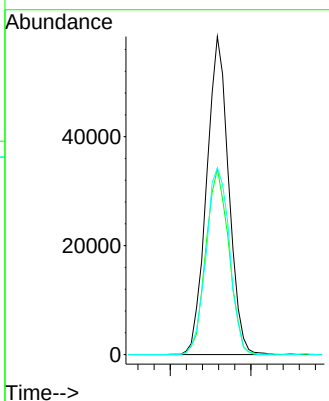
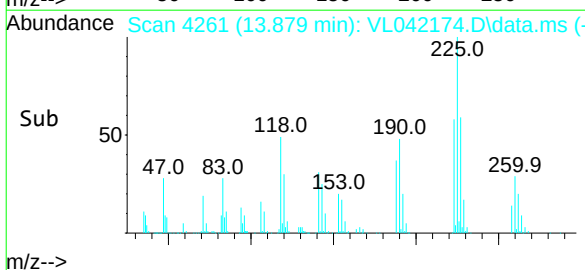
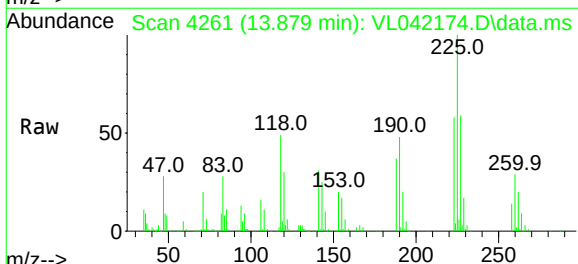
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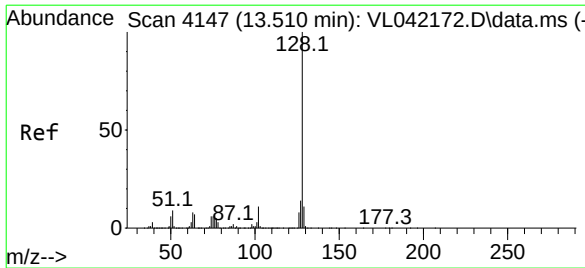
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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	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 :

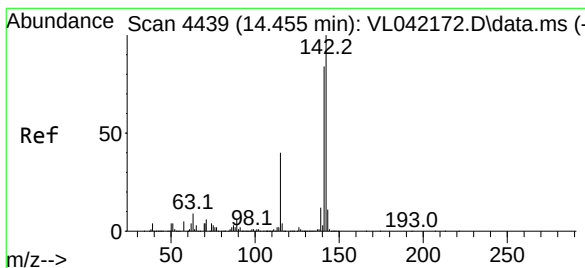
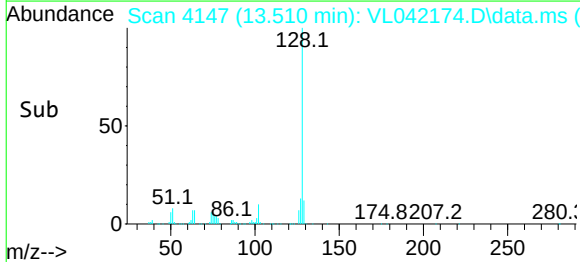
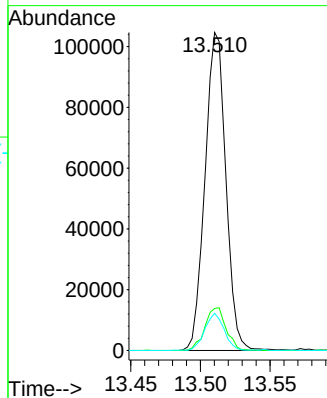
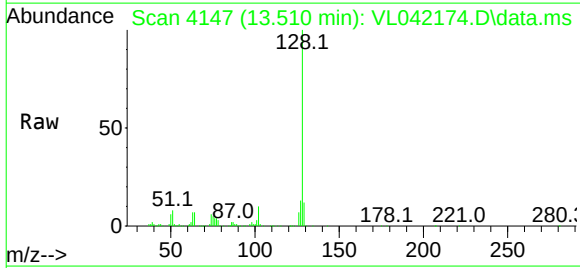
VSTDIC001

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

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

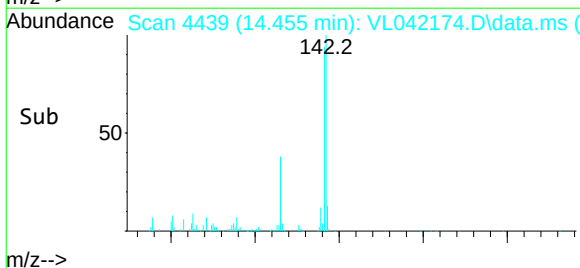
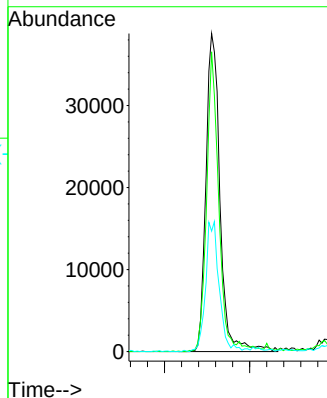
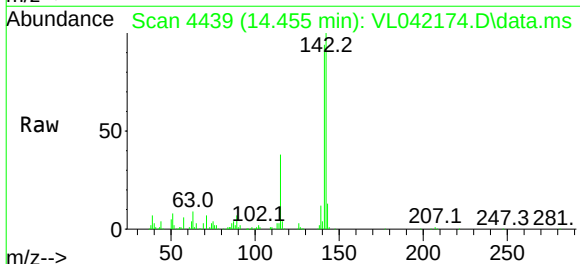
RT: 14.455 min Scan# 4439

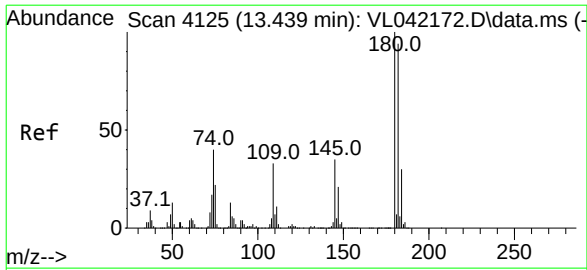
Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

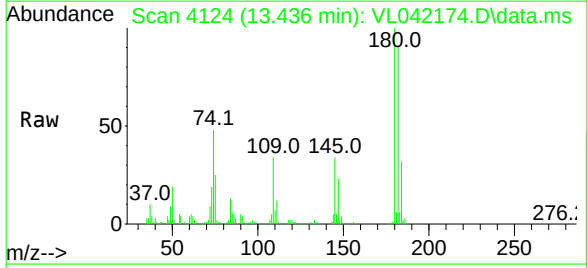
Tgt Ion:	142	Resp:	44518
Ion Ratio	Lower	Upper	
142	100		
141	83.4	66.3	99.5
115	41.5	31.6	47.4





#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

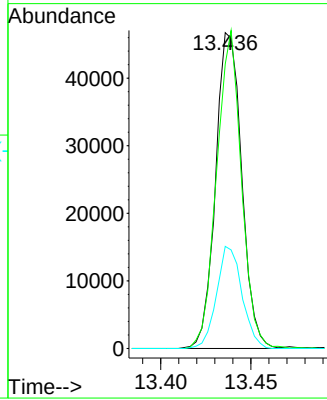
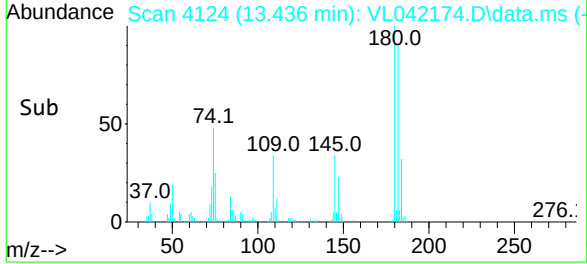
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



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
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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
 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)

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

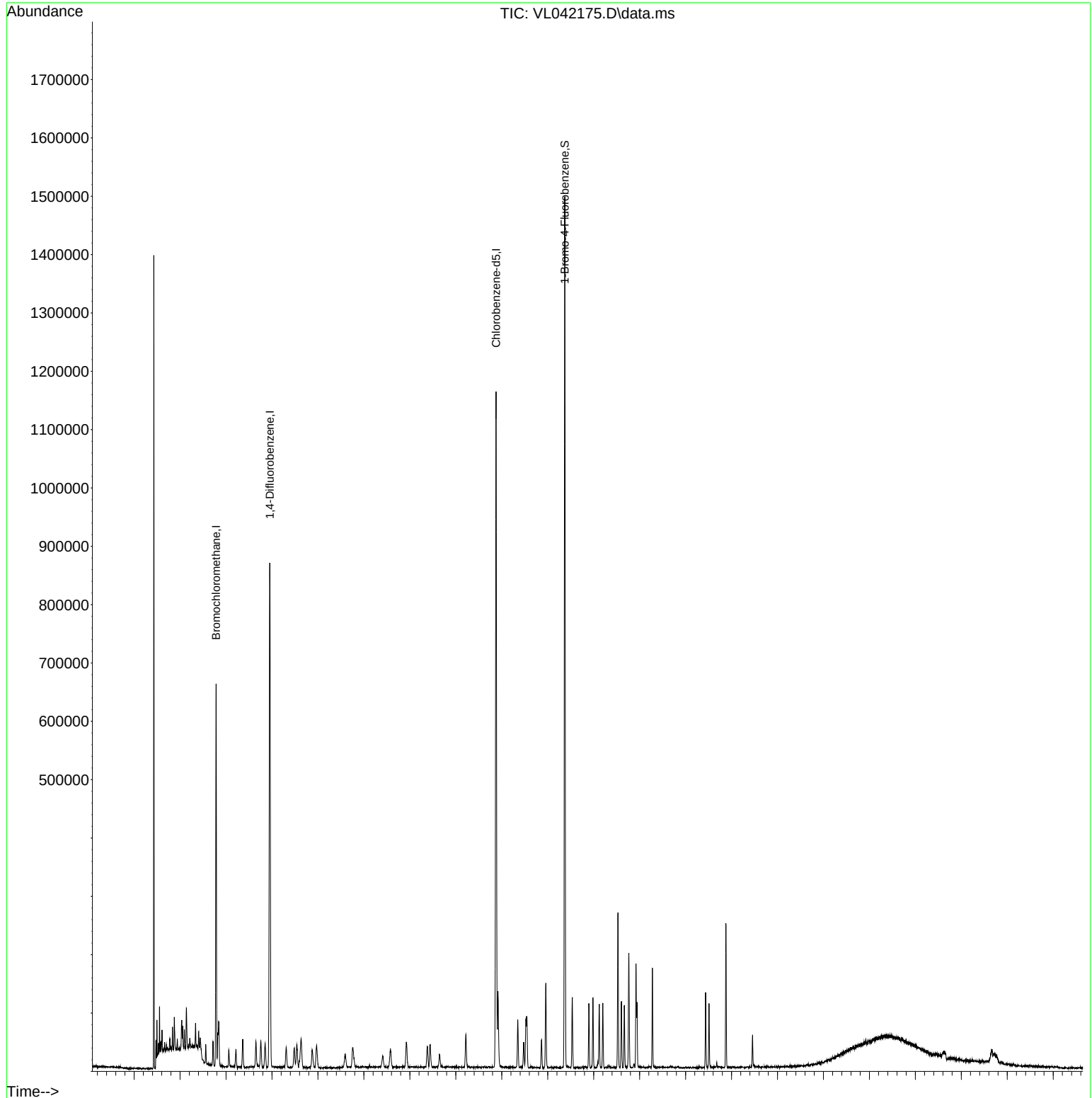
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042175.D
Acq On : 27 Mar 2025 10:01
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

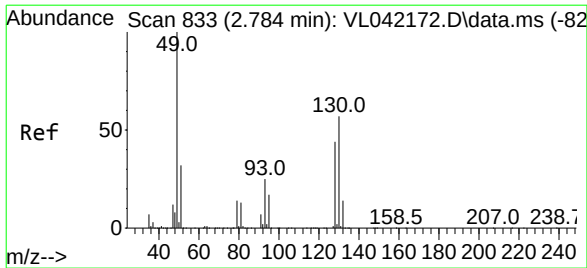
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

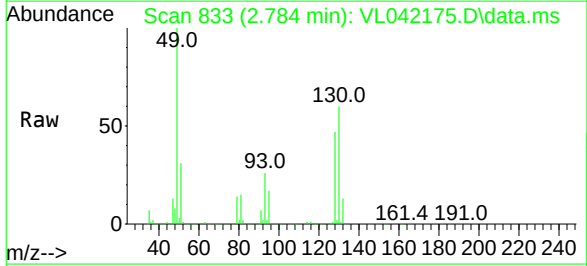
Quant Time: Mar 28 01:34:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration





#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

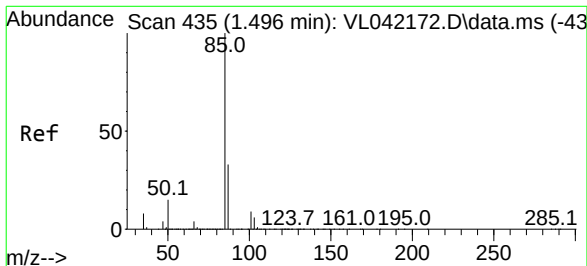
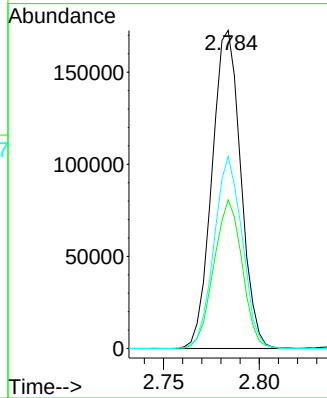
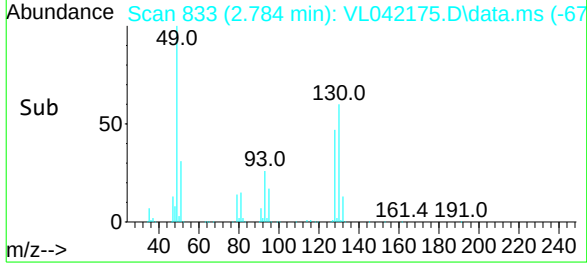
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



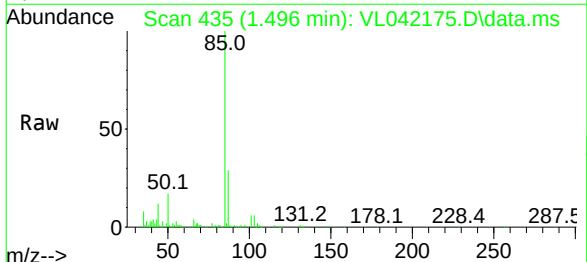
Tgt Ion: 49 Resp: 180502
Ion Ratio Lower Upper
49 100
128 46.1 22.9 68.5
130 59.2 28.8 86.4

Manual Integrations
APPROVED

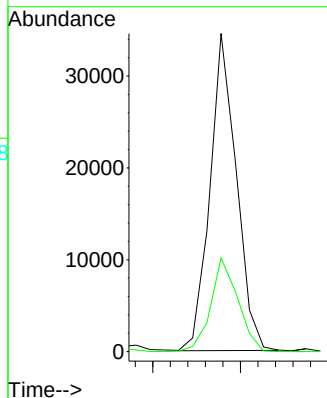
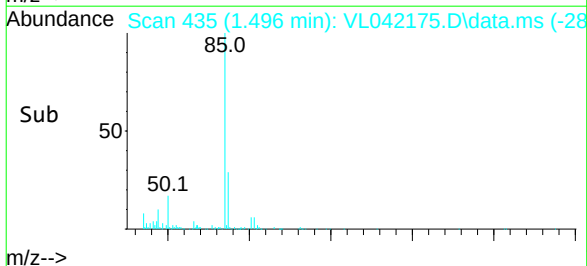
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

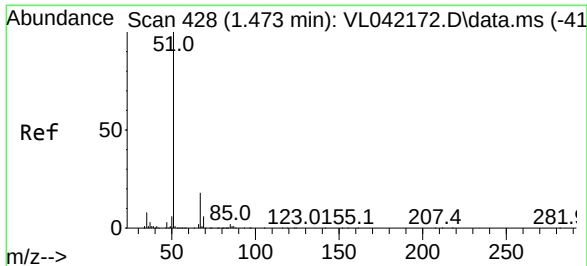


#2
Dichlorodifluoromethane
Concen: 0.542 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01



Tgt Ion: 85 Resp: 14455
Ion Ratio Lower Upper
85 100
87 29.5 26.1 39.1





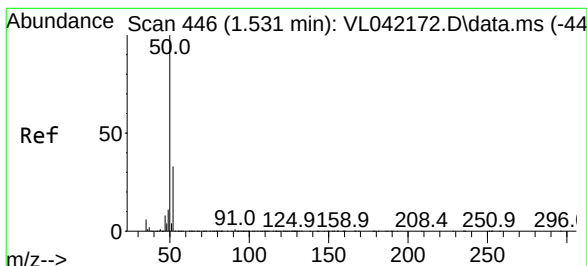
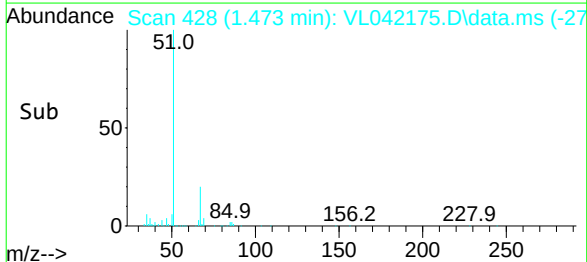
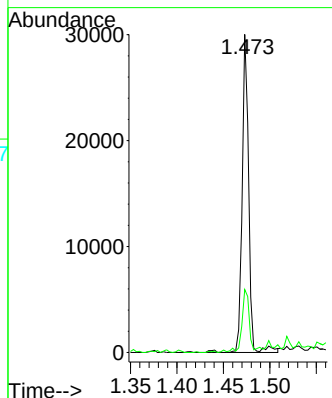
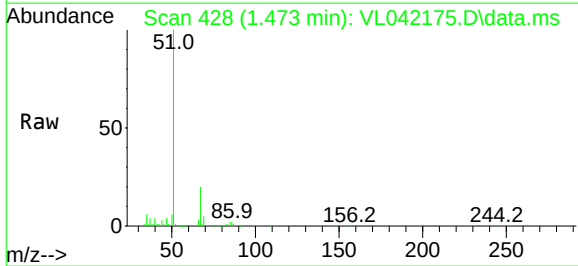
#3
Chlorodifluoromethane
Concen: 0.538 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 51 Resp: 14637
Ion Ratio Lower Upper
51 100
67 23.6 15.0 22.6

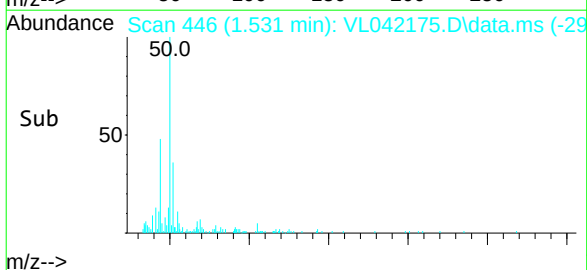
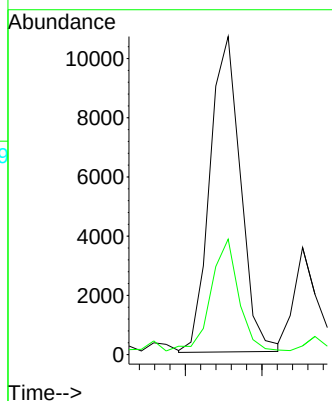
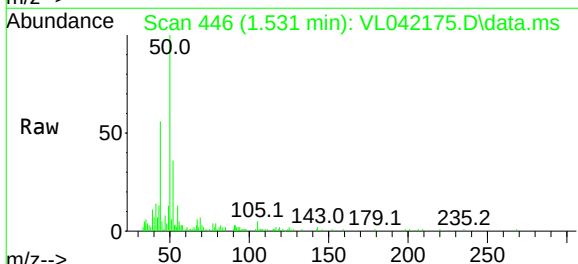
Manual Integrations
APPROVED

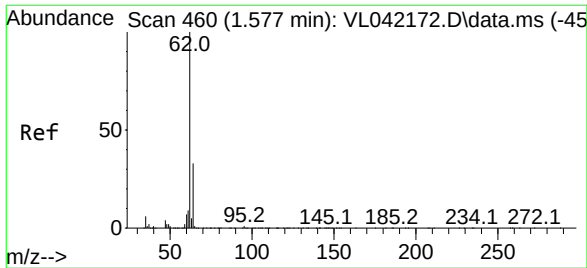
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





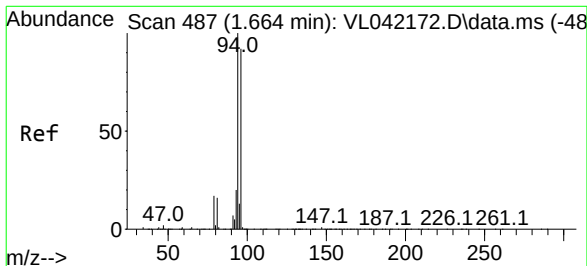
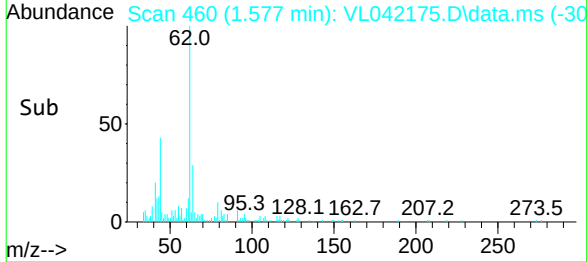
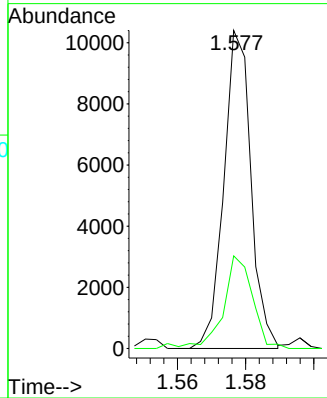
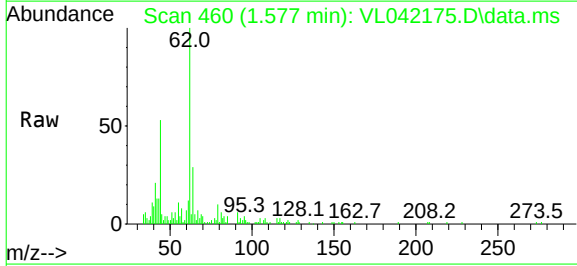
#5
 Vinyl Chloride
 Concen: 0.516 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 62 Resp: 5732
 Ion Ratio Lower Upper
 62 100
 64 28.5 26.6 40.0

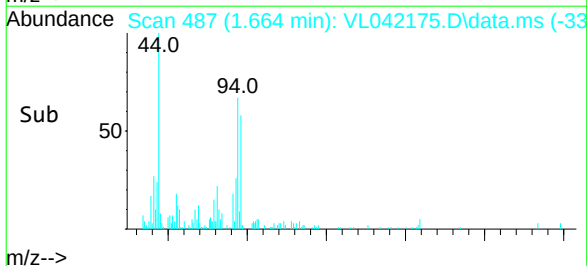
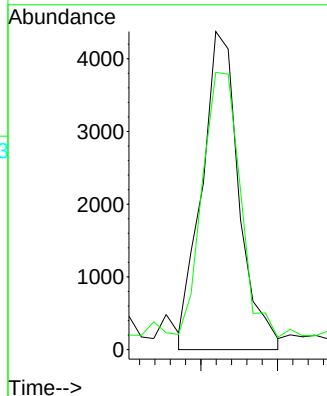
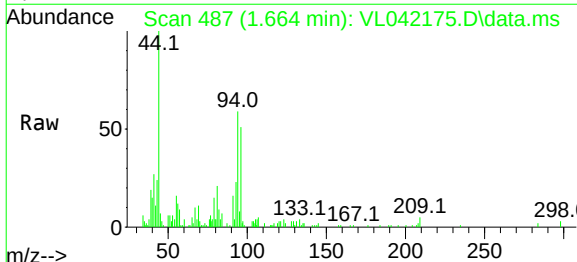
Manual Integrations
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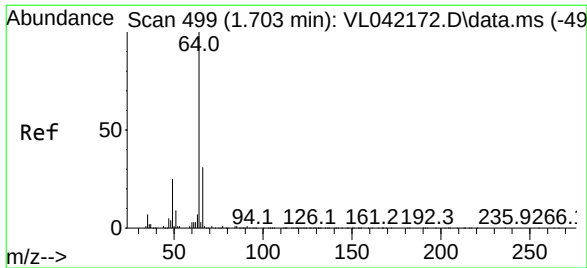
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#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





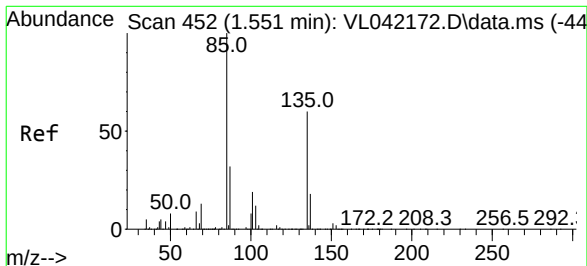
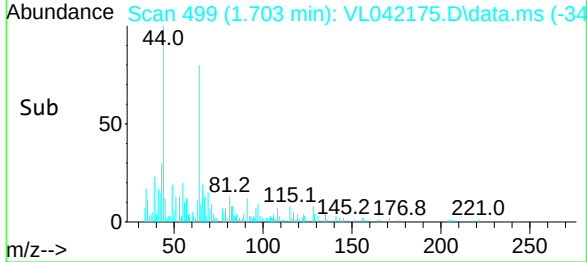
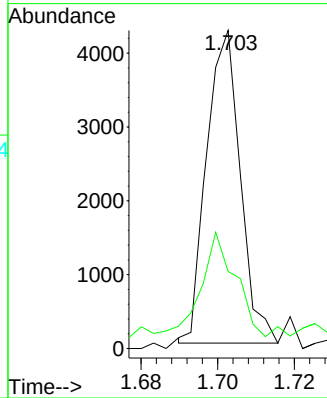
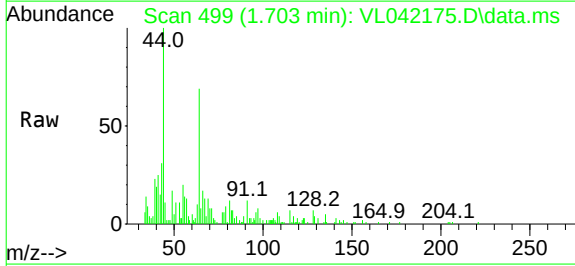
#7
Chloroethane
Concen: 0.591 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 64 Resp: 2582
Ion Ratio Lower Upper
64 100
66 24.2 25.2 37.8#

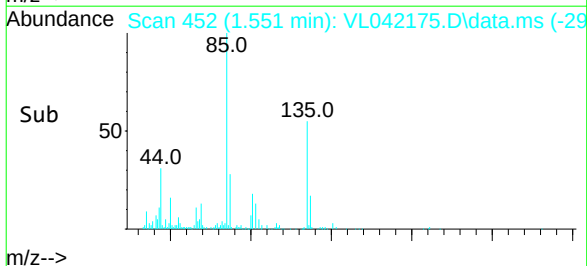
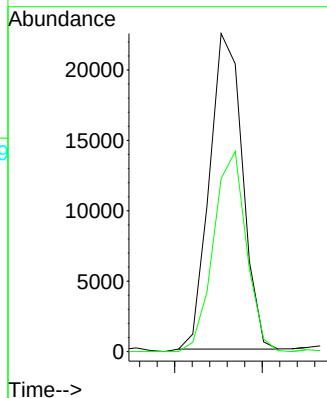
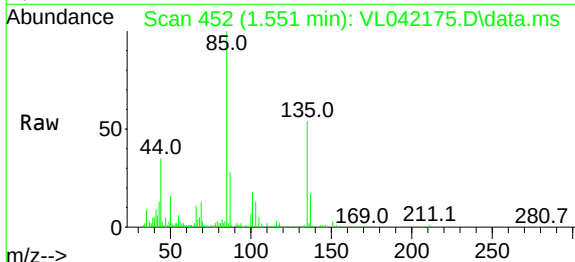
Manual Integrations
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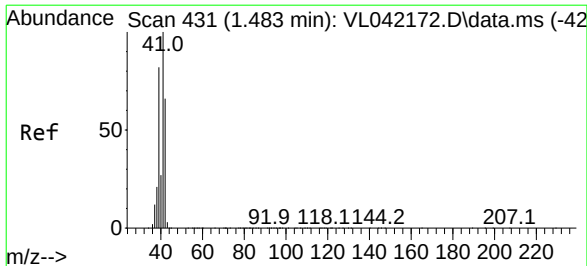
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

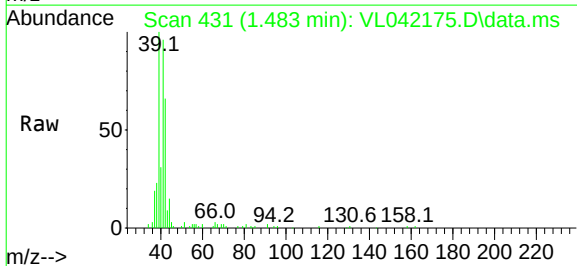
Tgt Ion: 85 Resp: 11783
Ion Ratio Lower Upper
85 100
135 63.7 52.4 78.6





#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

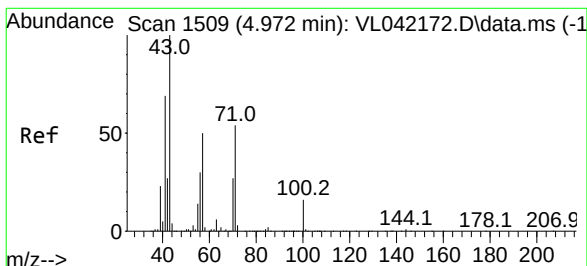
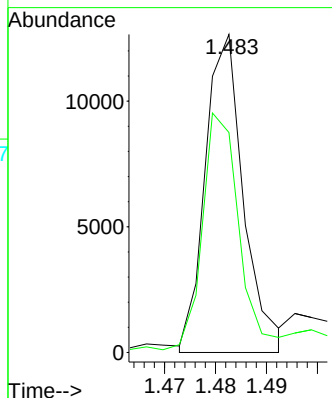
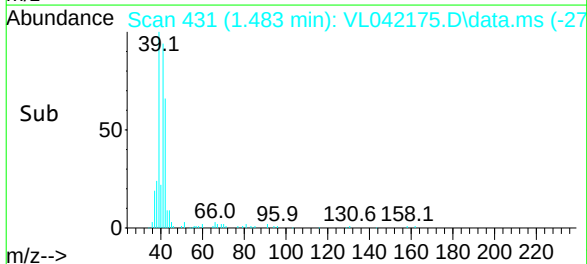
Instrument : MSVOA_L
 ClientSampleId : VSTDIC0.5



Tgt Ion: 41 Resp: 6622
 Ion Ratio Lower Upper
 41 100
 42 19.5 55.4 83.2#

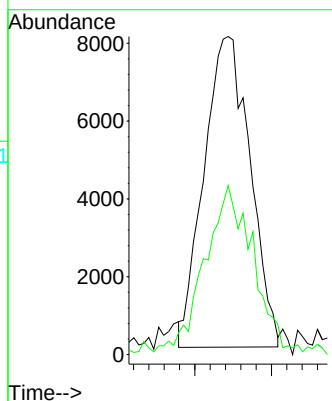
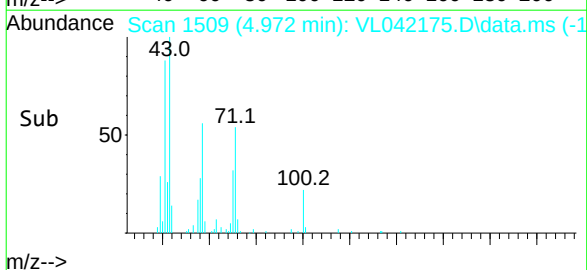
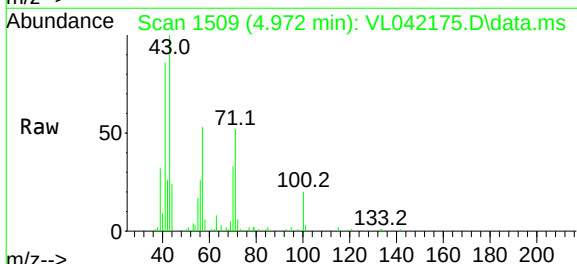
Manual Integrations
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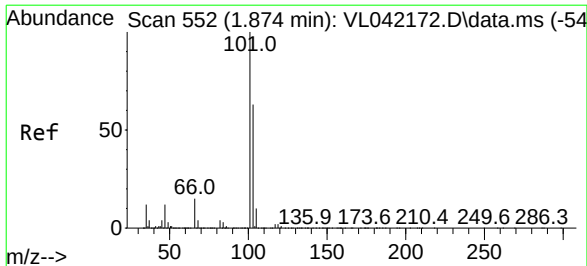
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#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

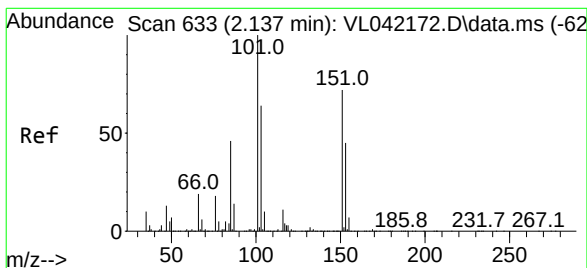
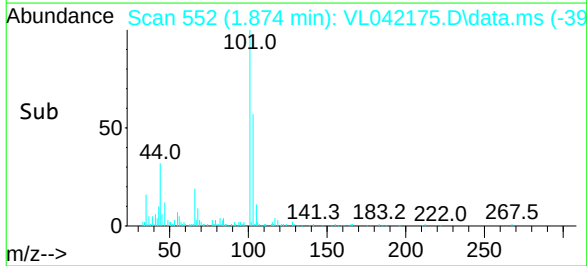
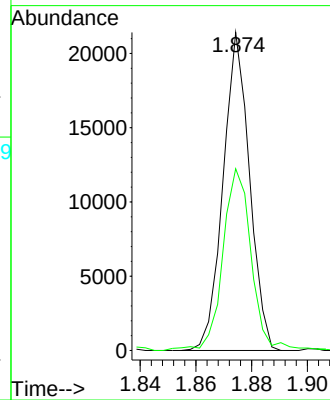
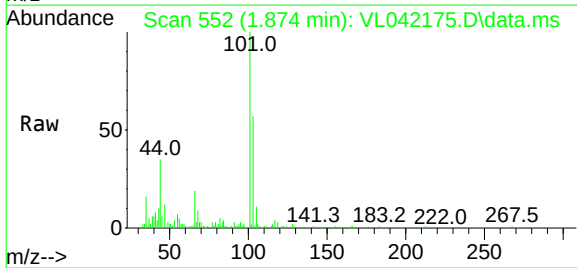
103 56.3 50.2 75.2

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

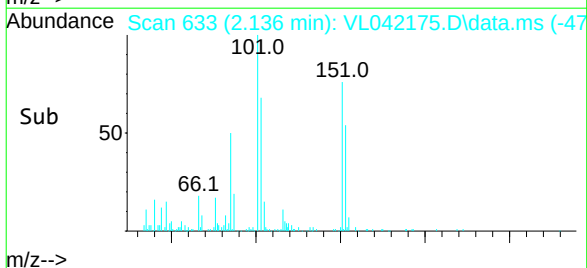
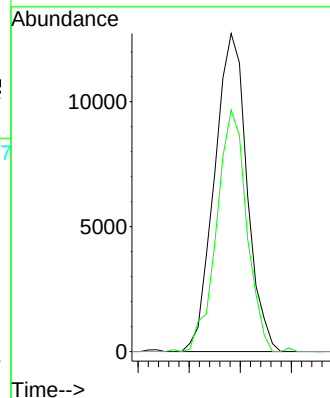
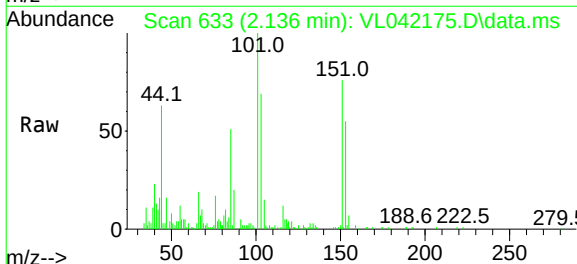
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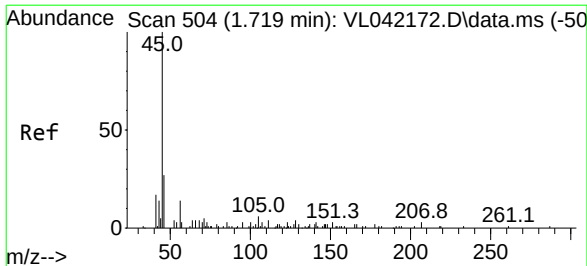
Tgt Ion:101 Resp: 11252

Ion Ratio Lower Upper

101 100

151 70.6 57.1 85.7





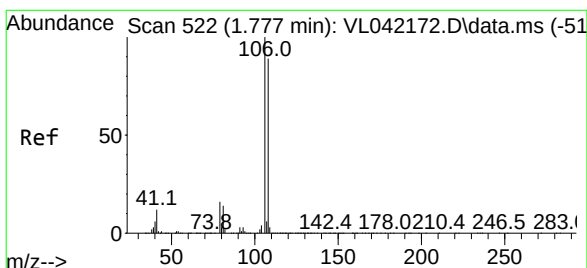
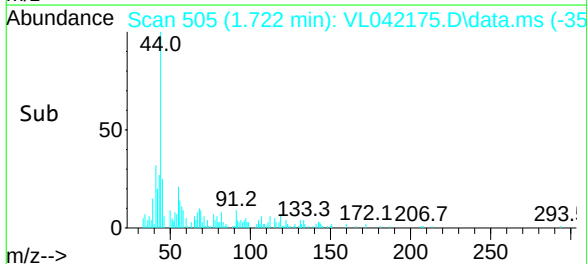
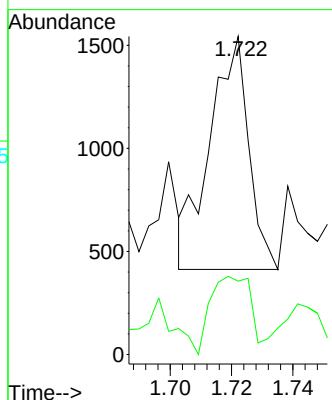
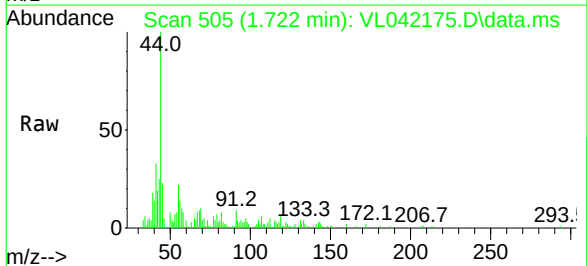
#13
Ethanol
Concen: 1.038 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 45 Resp: 997
Ion Ratio Lower Upper
45 100
46 94.5 20.2 80.8#

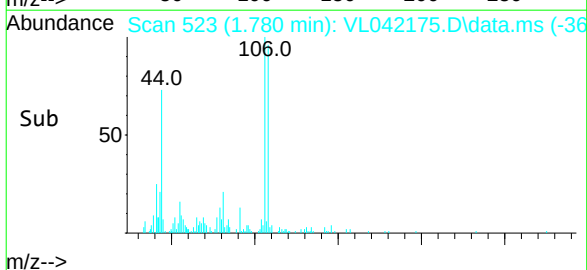
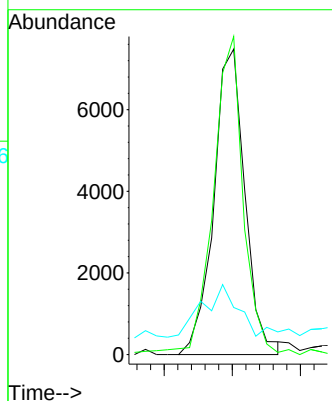
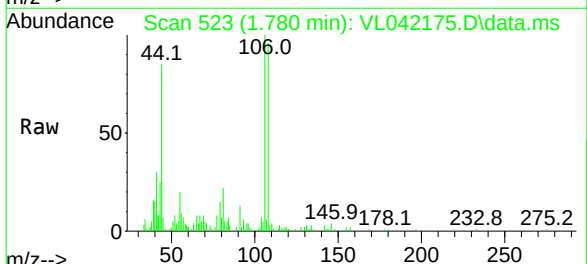
Manual Integrations
APPROVED

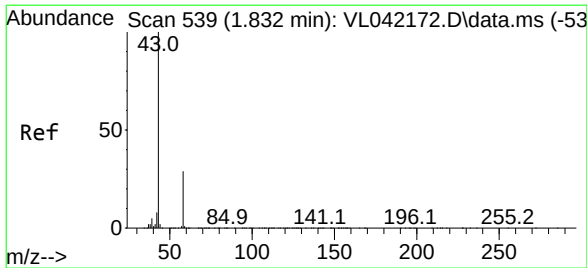
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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#





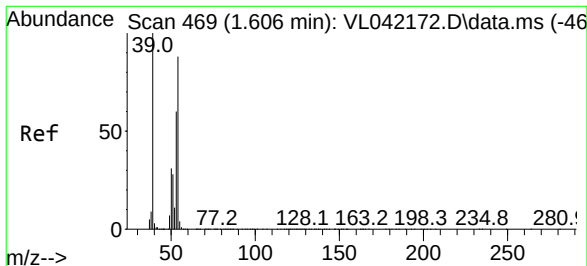
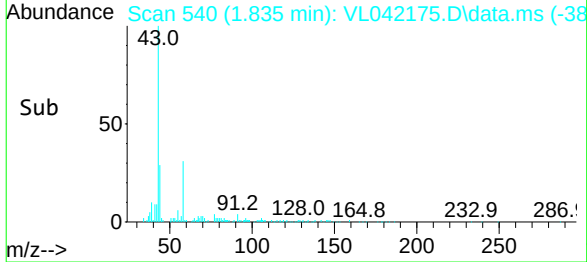
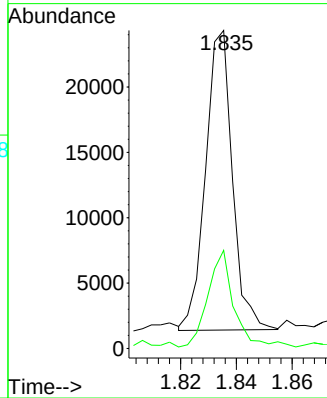
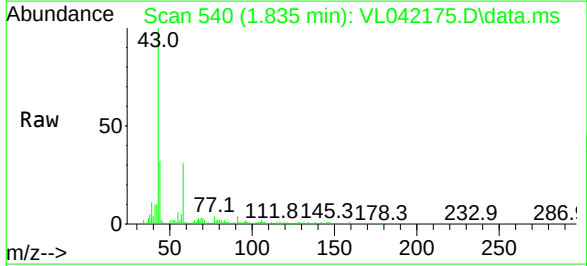
#15
Acetone
Concen: 0.607 ppbv
RT: 1.835 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 43 Resp: 15331
Ion Ratio Lower Upper
43 100
58 37.1 23.2 34.8#

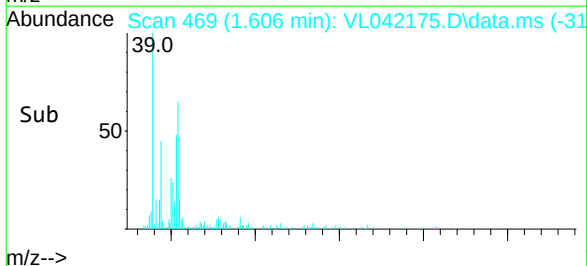
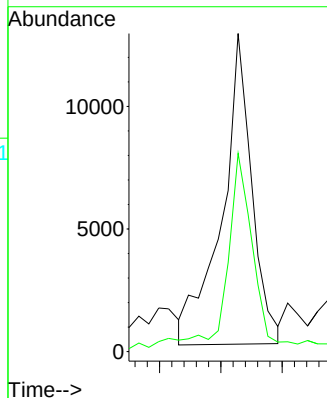
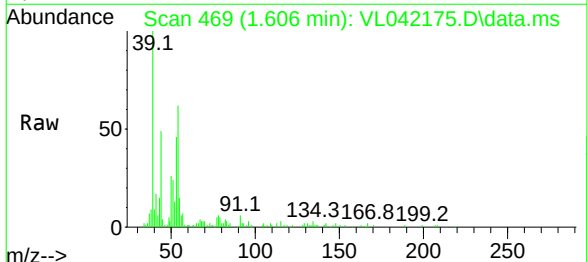
Manual Integrations
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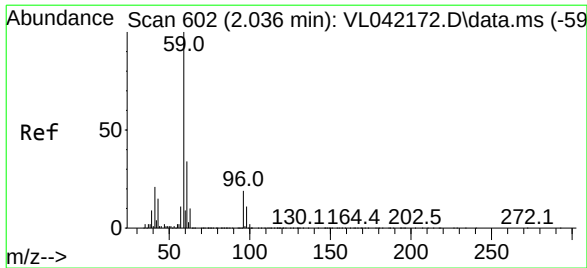
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





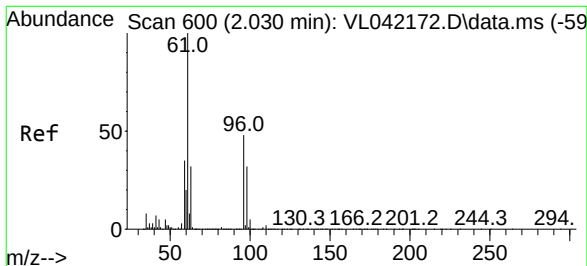
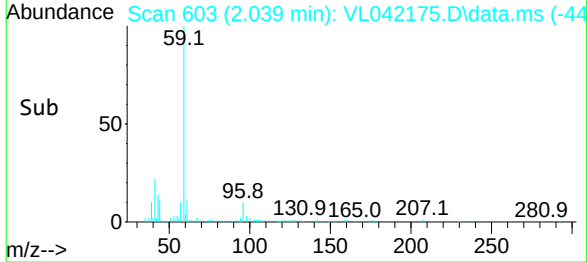
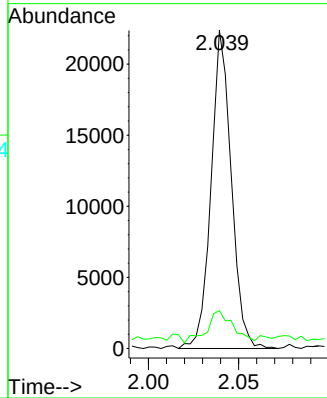
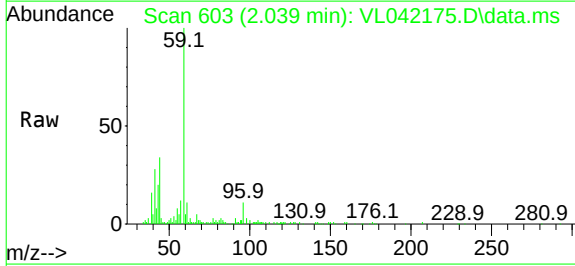
#17
tert-Butyl alcohol
Concen: 0.556 ppbv
RT: 2.039 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 59 Resp: 17467
Ion Ratio Lower Upper
59 100
57 12.1 8.9 13.3

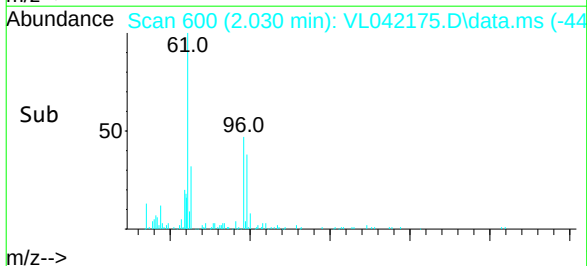
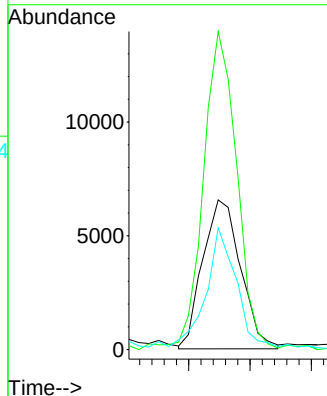
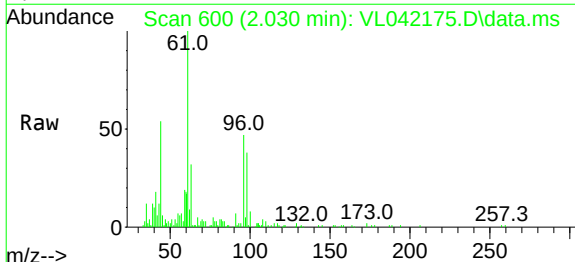
Manual Integrations
APPROVED

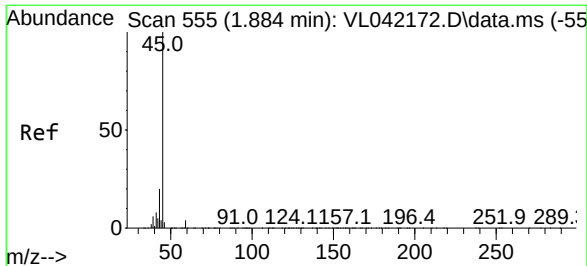
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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#





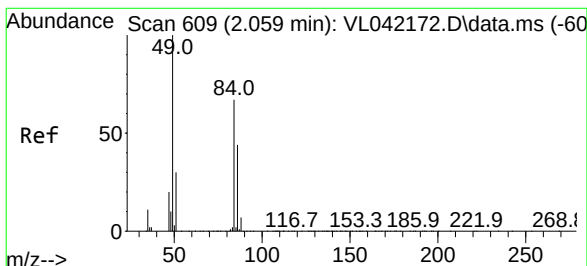
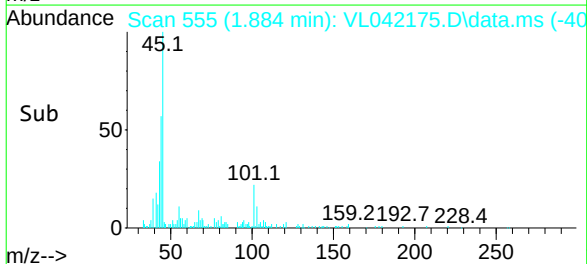
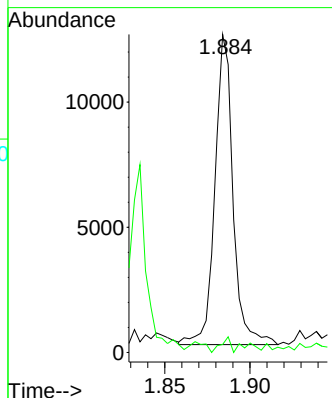
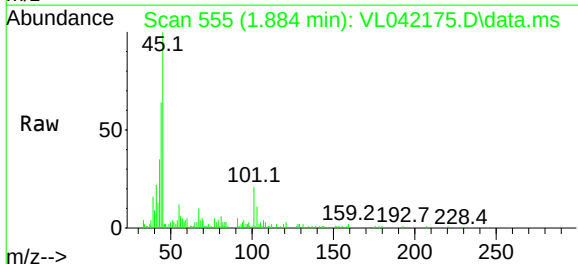
#19
Isopropyl Alcohol
Concen: 0.644 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 45 Resp: 9171
Ion Ratio Lower Upper
45 100
58 5.5 36.9 55.3#

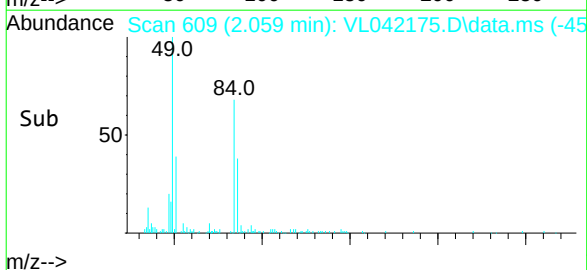
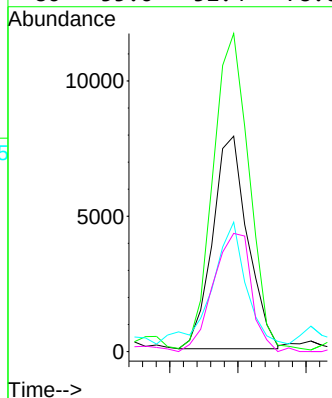
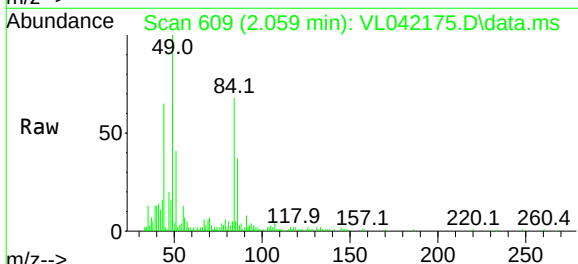
Manual Integrations
APPROVED

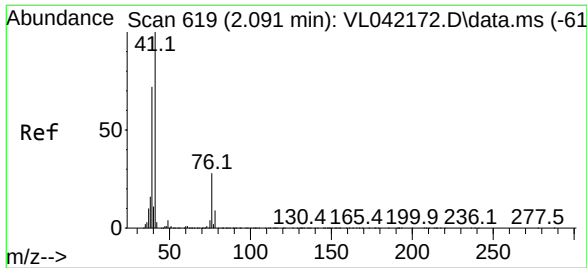
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

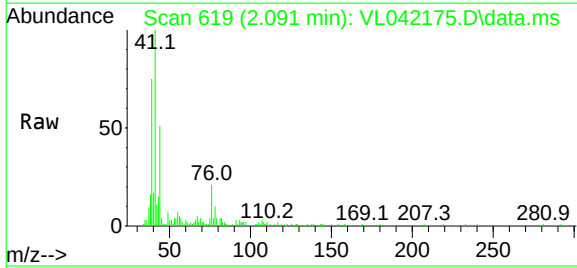
Tgt Ion: 84 Resp: 5634
Ion Ratio Lower Upper
84 100
49 148.1 120.2 180.4
51 56.1 37.4 56.0#
86 55.6 52.4 78.6





#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

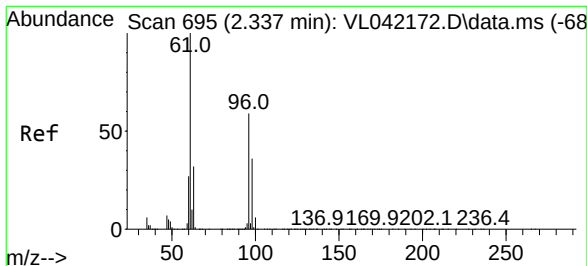
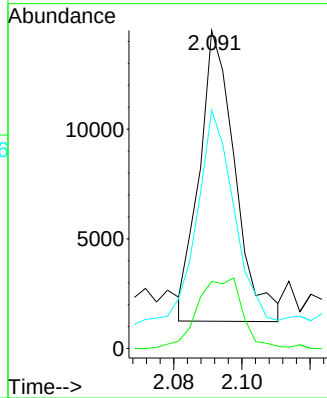
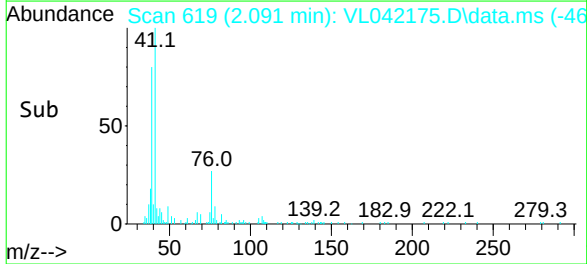
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



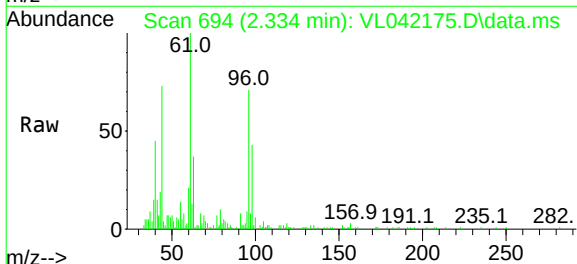
Tgt Ion: 41	Resp: 9632
Ion Ratio	Lower Upper
41 100	
76 30.9	24.1 36.1
39 88.9	61.1 91.7

Manual Integrations
 APPROVED

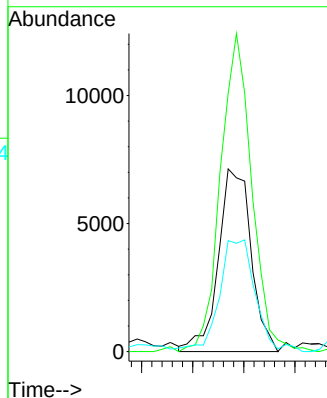
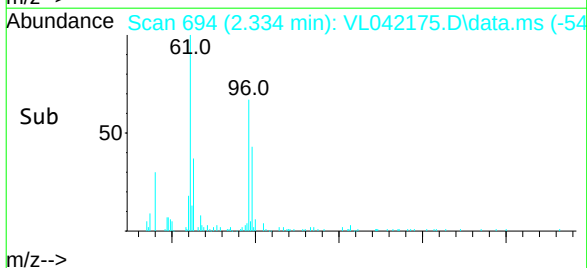
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

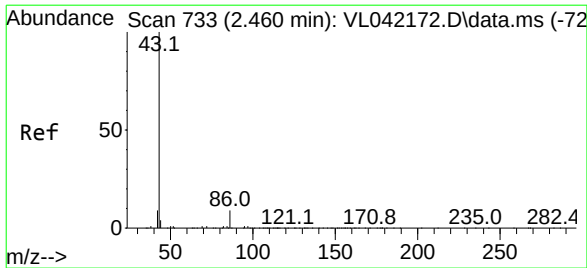


#22
 trans-1,2-Dichloroethene
 Concen: 0.546 ppbv
 RT: 2.334 min Scan# 694
 Delta R.T. -0.003 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01



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 :

VSTDICC0.5

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

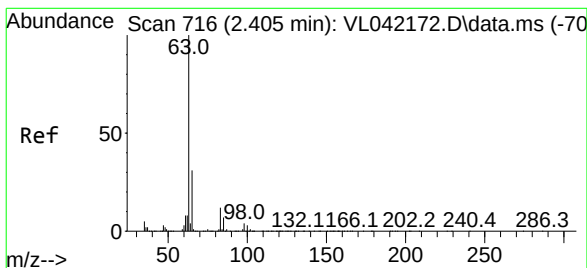
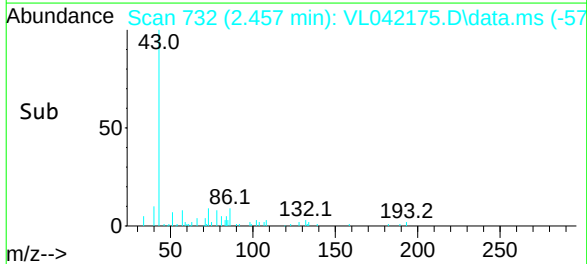
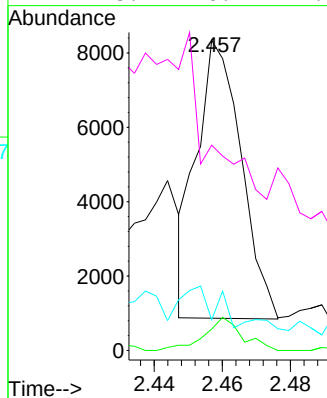
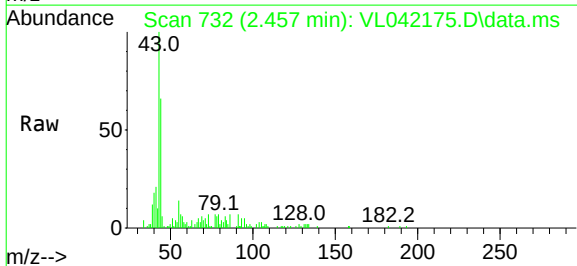
44 8.2 6.2 9.4

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

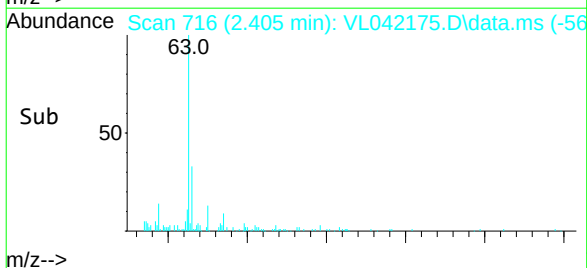
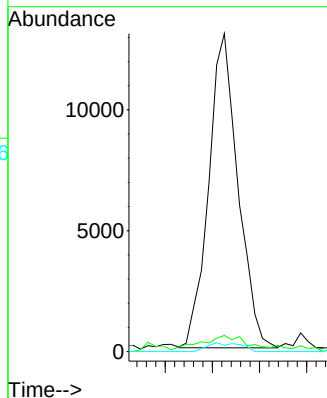
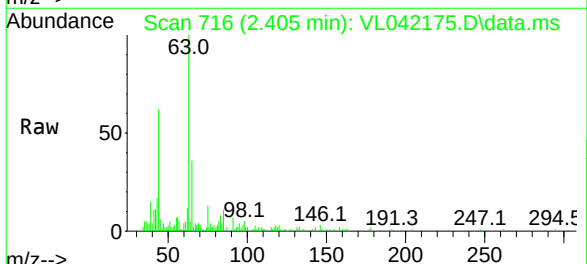
Tgt Ion: 63 Resp: 11258

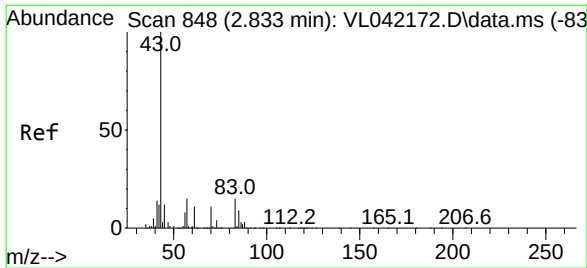
Ion Ratio Lower Upper

63 100

98 3.7 2.3 6.8

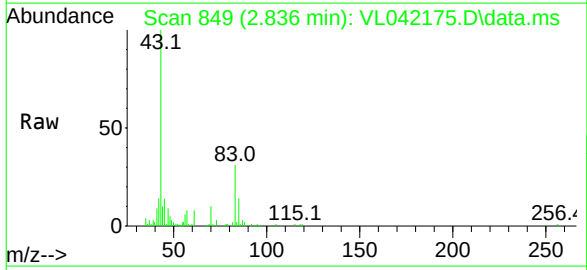
100 2.0 1.6 4.7





#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

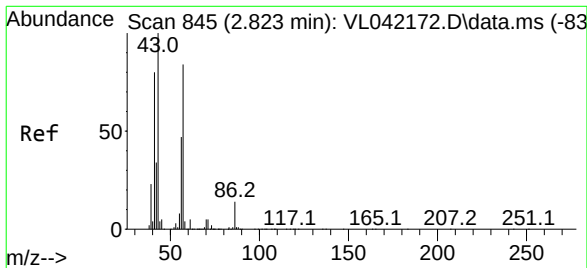
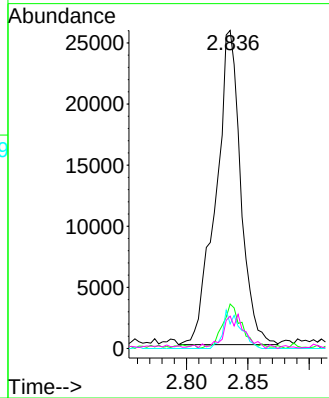
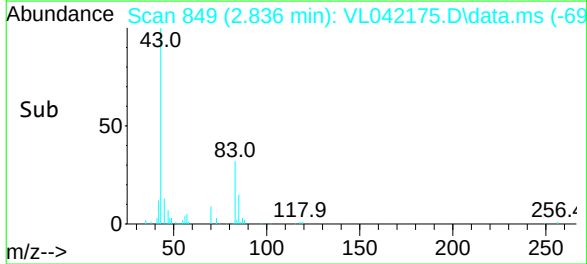
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



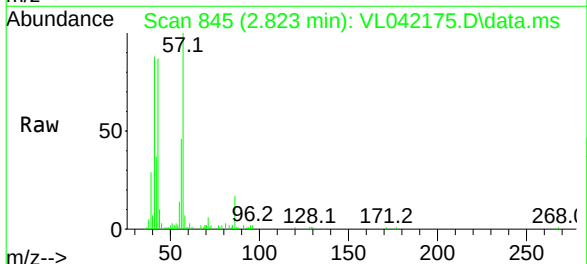
Tgt Ion	Ratio	Lower	Upper
43	100		
45	11.2	8.2	12.2
61	8.3	7.3	10.9
70	9.9	7.2	10.8

Manual Integrations
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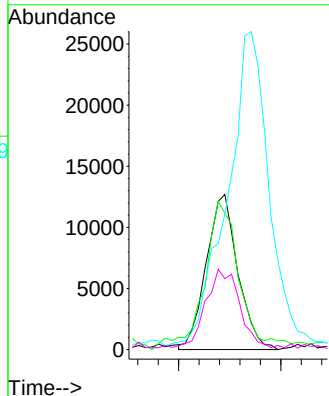
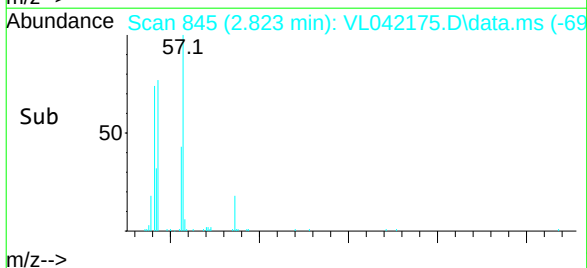
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

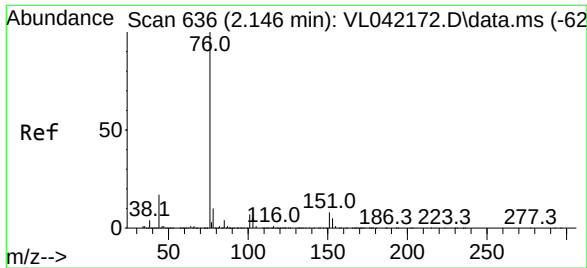


#26
Hexane
Concen: 0.538 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01



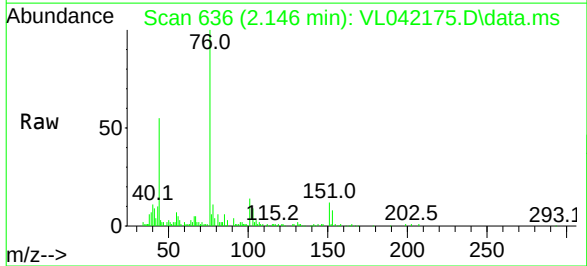
Tgt Ion	Ratio	Lower	Upper
57	100		
41	92.1	76.6	114.8
43	273.4	207.8	311.8
56	64.6	43.6	65.4





#27
Carbon Disulfide
Concen: 0.535 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

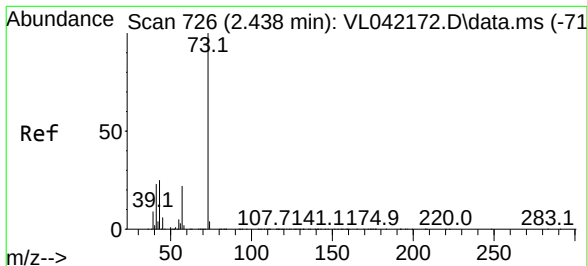
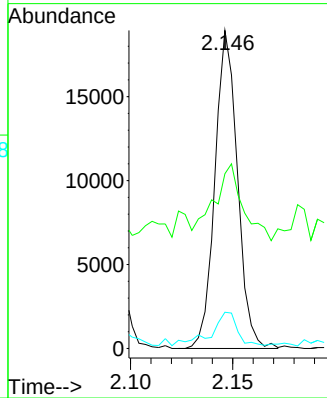
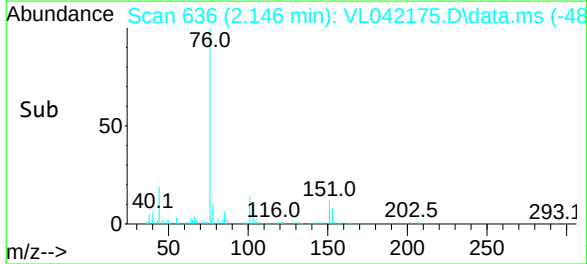
Instrument : MSVOA_1
ClientSampleId : VSTDIC0.5



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#

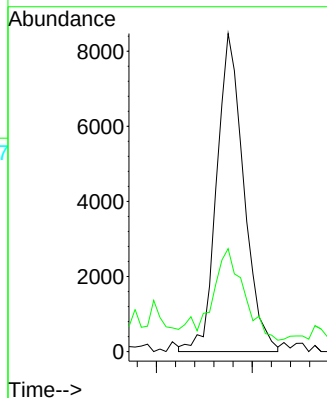
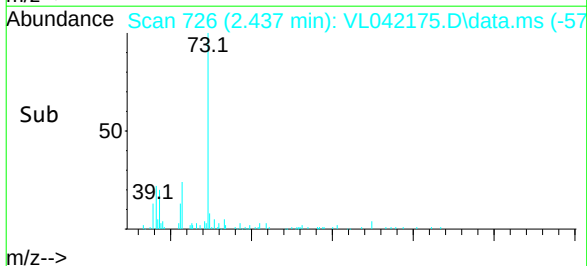
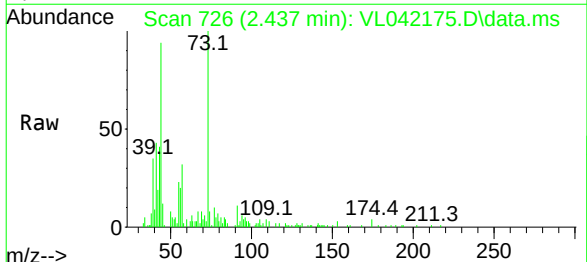
Manual Integrations
APPROVED

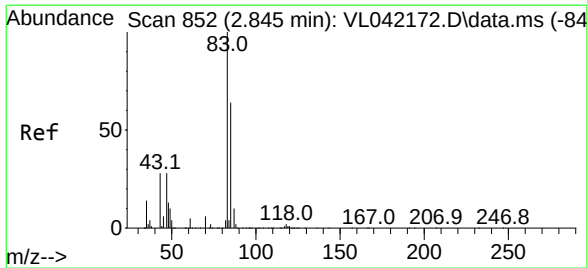
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

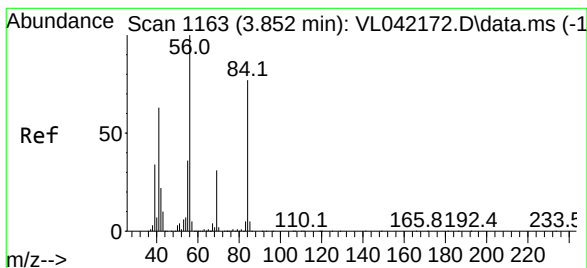
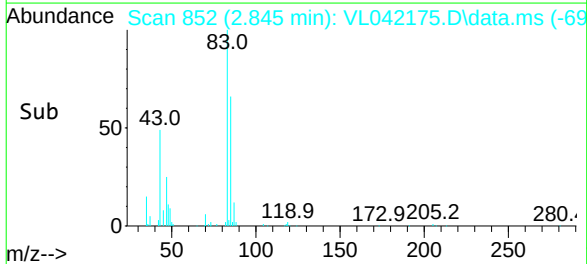
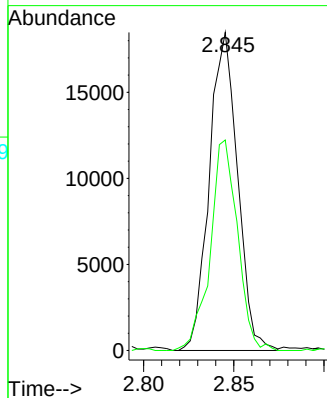
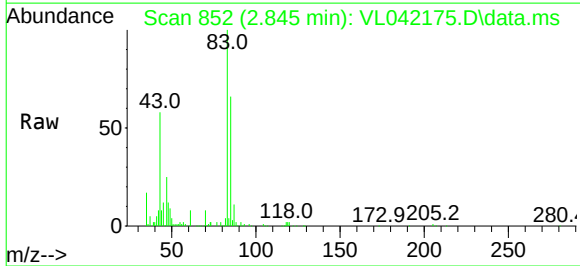
85 66.2 51.4 77.2

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

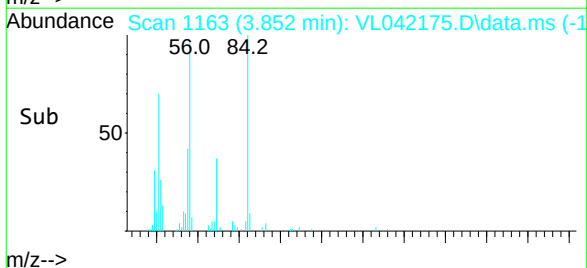
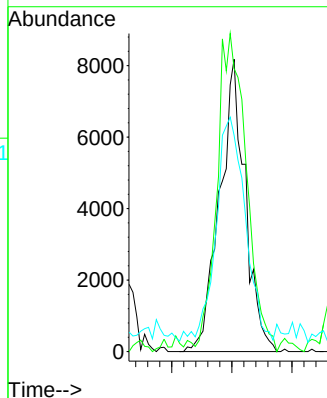
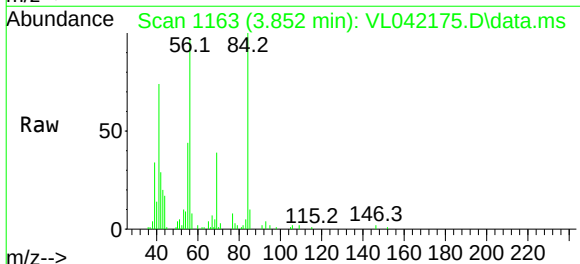
Tgt Ion: 84 Resp: 12063

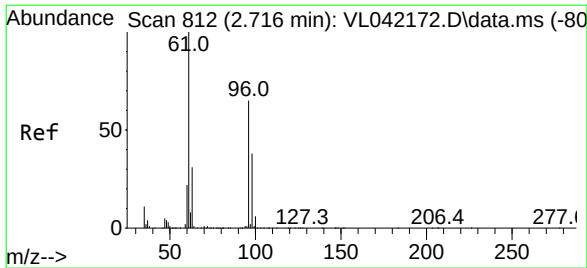
Ion Ratio Lower Upper

84 100

56 126.3 102.8 154.2

41 93.5 66.5 99.7





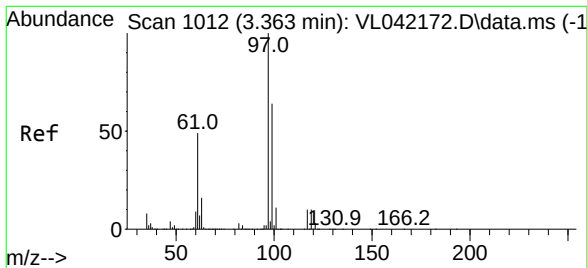
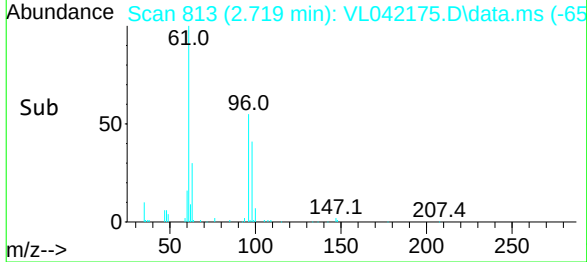
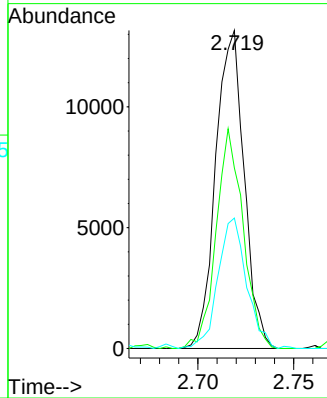
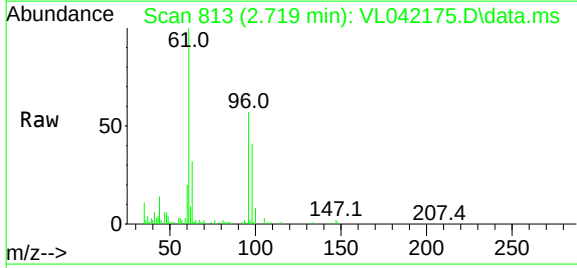
#31
 cis-1,2-Dichloroethene
 Concen: 0.529 ppbv
 RT: 2.719 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Instrument :
 MSVOA_L
 ClientSampleId :
 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

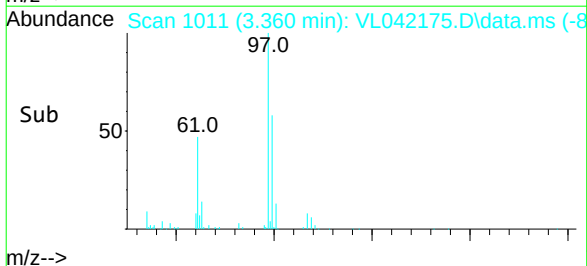
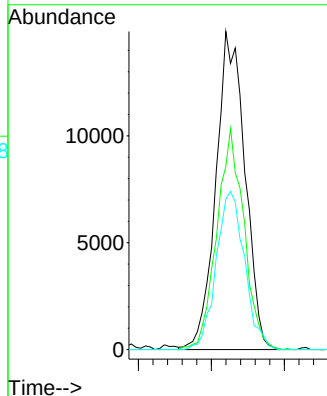
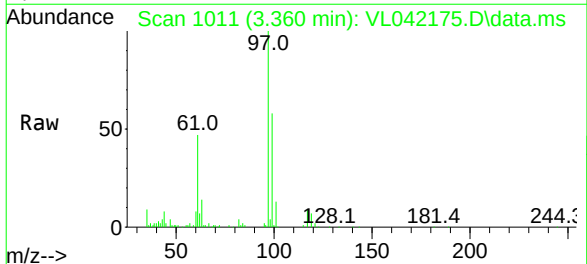
Manual Integrations
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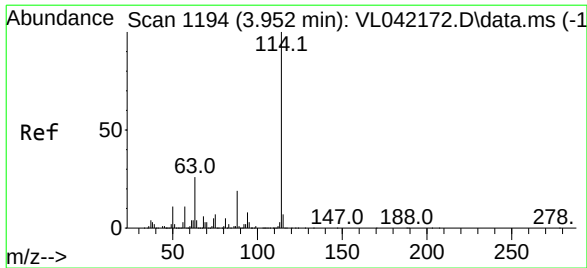
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#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

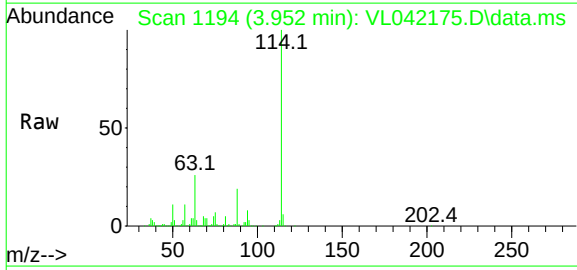
Tgt Ion:	97	Resp:	20567
Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.5	77.3
61	48.6	38.7	58.1





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

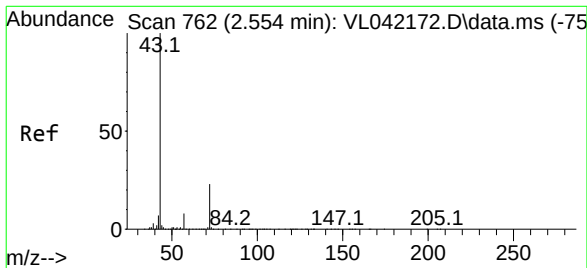
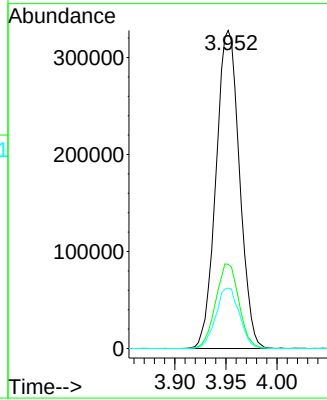
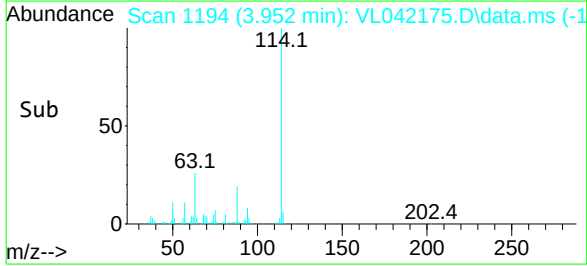
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



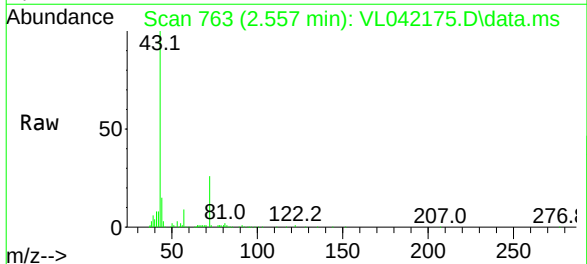
Tgt Ion: 114 Resp: 523832
Ion Ratio Lower Upper
114 100
63 26.4 20.7 31.1
88 19.1 15.0 22.4

Manual Integrations
APPROVED

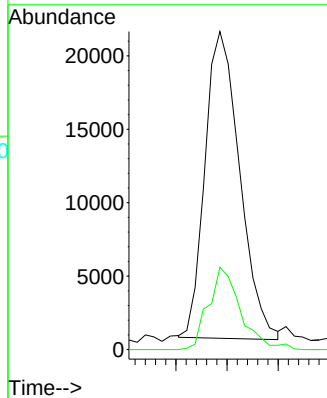
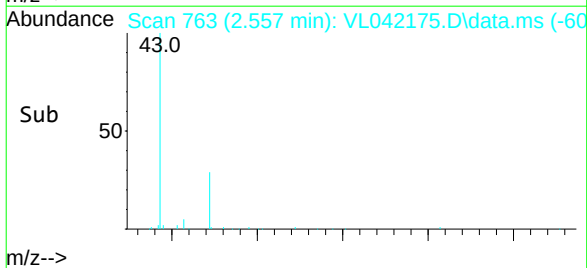
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

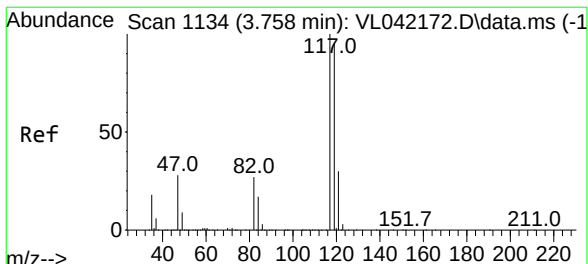


#34
2-Butanone
Concen: 0.520 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01



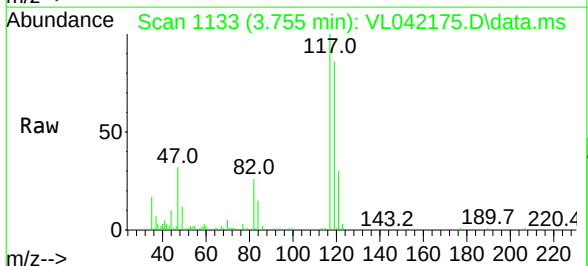
Tgt Ion: 43 Resp: 19739
Ion Ratio Lower Upper
43 100
72 24.8 18.2 27.2





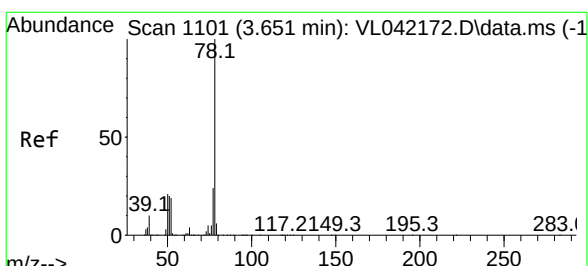
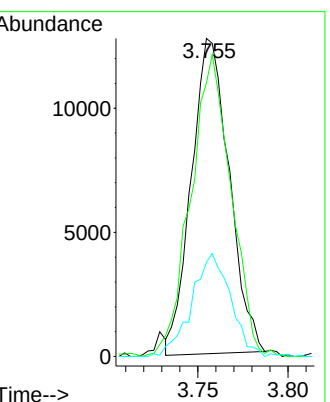
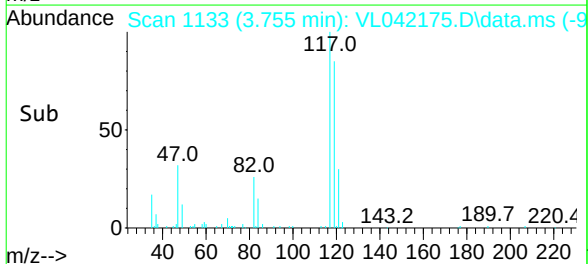
#35
 Carbon Tetrachloride
 Concen: 0.460 ppbv
 RT: 3.755 min Scan# 1113
 Delta R.T. -0.003 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Instrument : MSVOA_L
 ClientSampleId : VSTDIC0.5

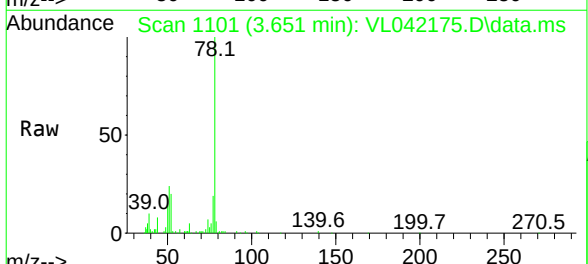


Tgt Ion:	117	Resp:	18558
Ion	Ratio	Lower	Upper
117	100		
119	86.4	76.2	114.2
121	30.1	24.2	36.4

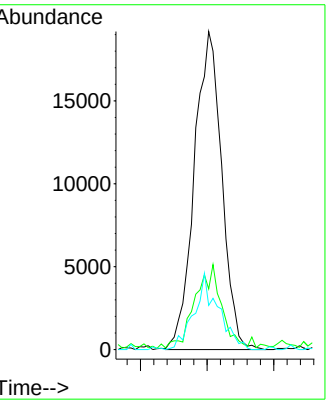
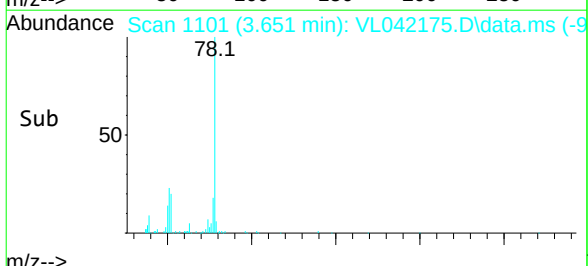
Manual Integrations
APPROVED
 Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

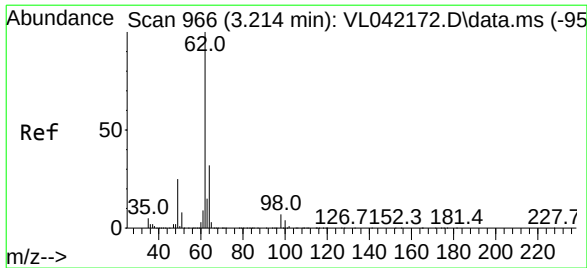


#36
 Benzene
 Concen: 0.529 ppbv
 RT: 3.651 min Scan# 1101
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01



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#





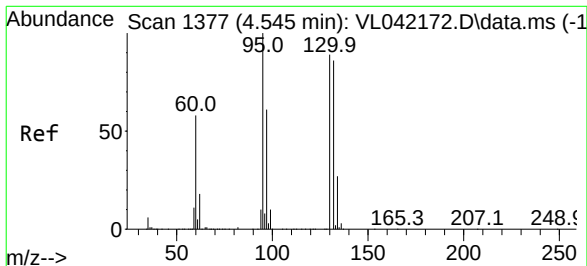
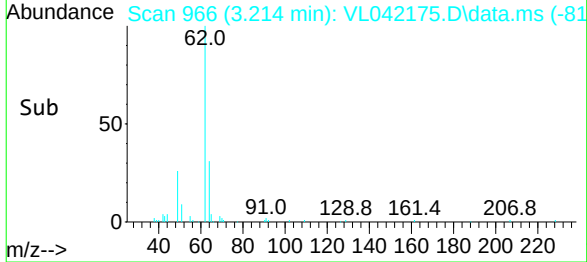
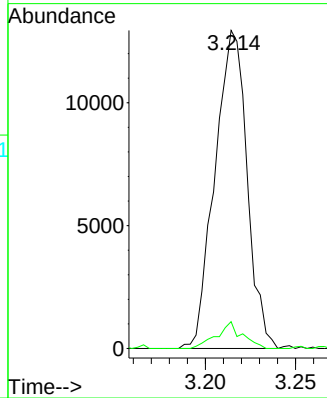
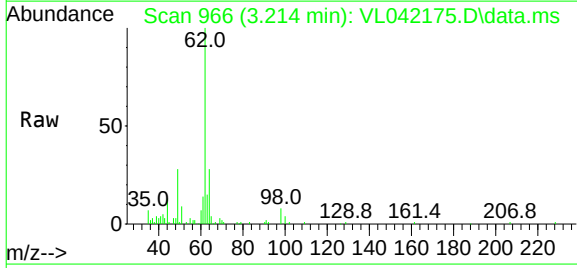
#37
1,2-Dichloroethane
Concen: 0.540 ppbv
RT: 3.214 min Scan# 966
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 62 Resp: 16062
Ion Ratio Lower Upper
62 100
98 7.0 5.4 8.2

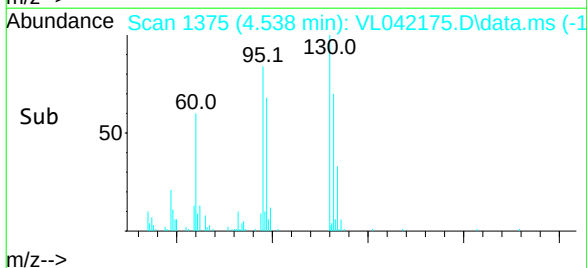
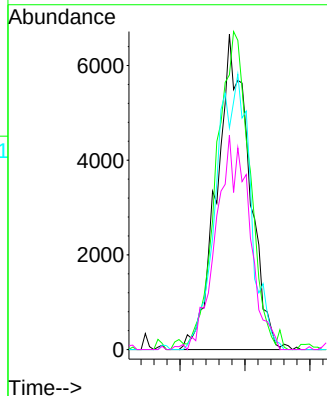
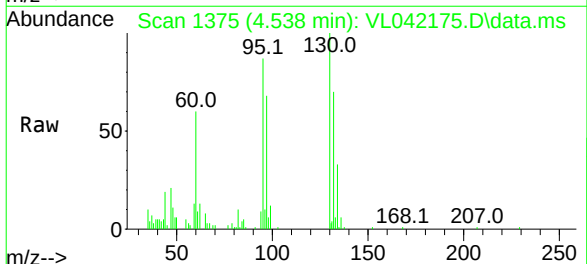
Manual Integrations
APPROVED

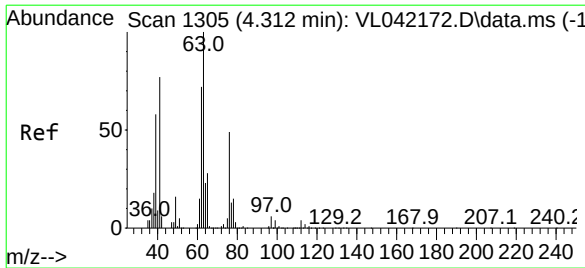
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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# 13

Delta R.T. -0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 63 Resp: 10123

Ion Ratio Lower Upper

63 100

41 66.4 61.7 92.5

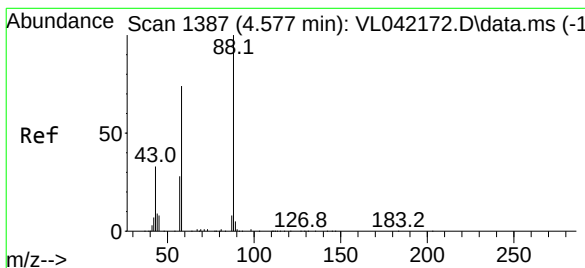
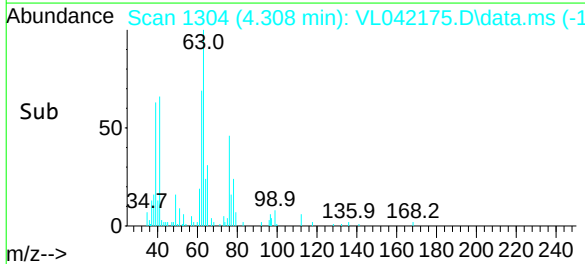
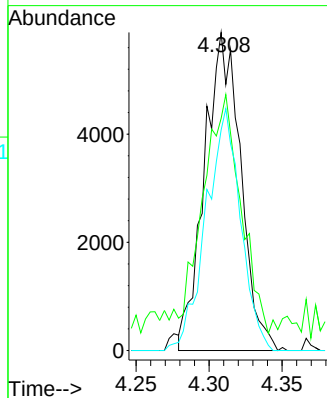
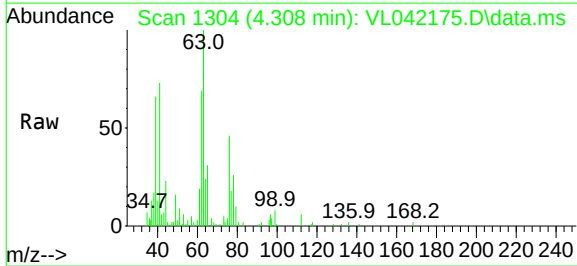
62 69.3 57.6 86.4

Manual Integrations

APPROVED

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

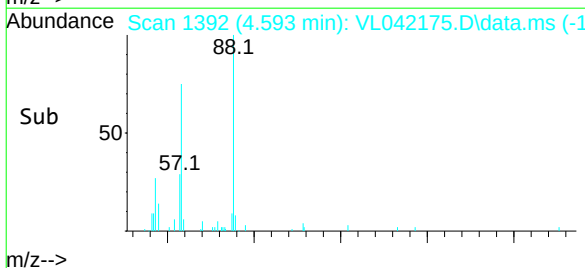
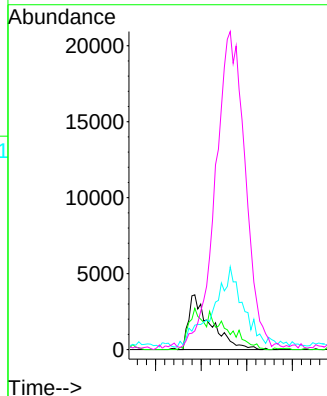
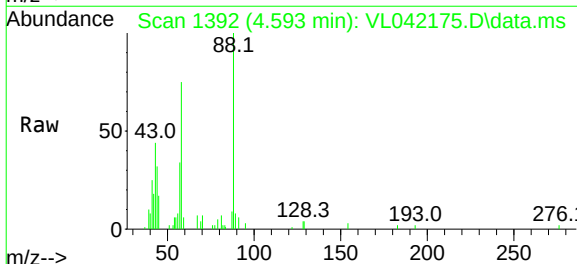
Ion Ratio Lower Upper

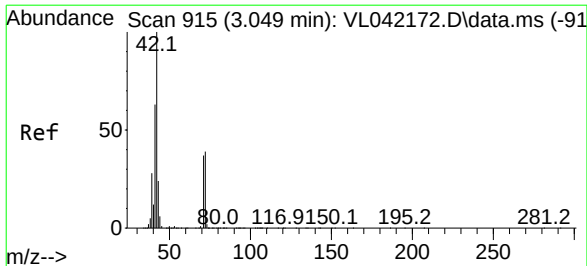
88 100

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 :

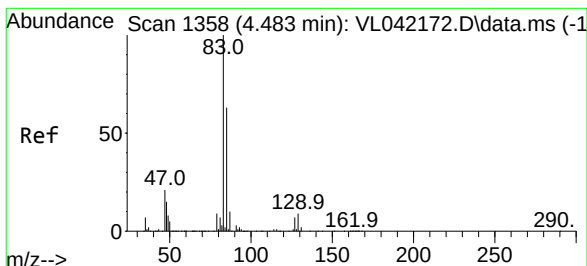
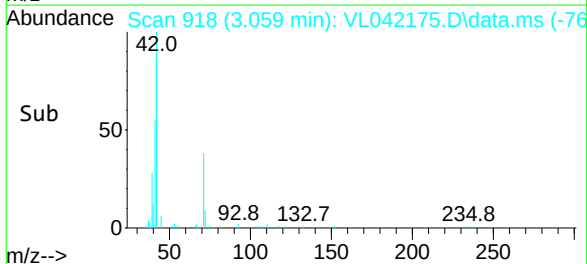
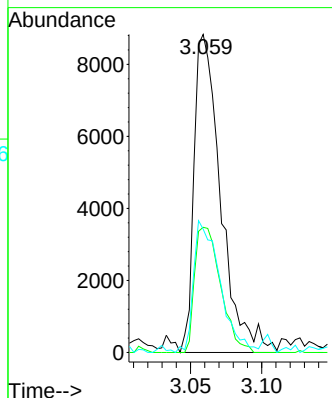
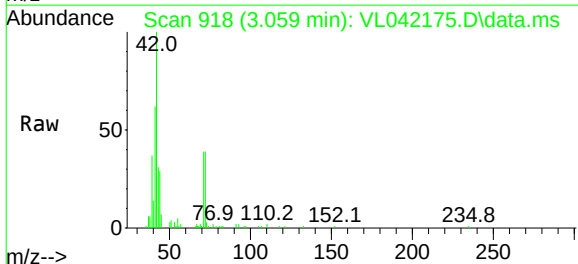
VSTDICC0.5

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

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#42

Bromodichloromethane

Concen: 0.497 ppbv

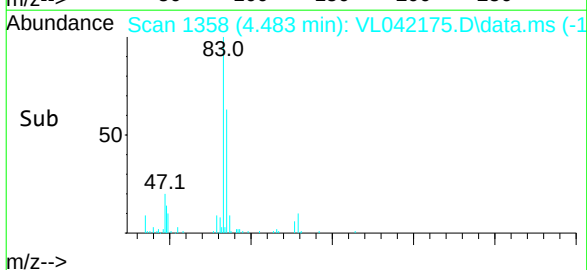
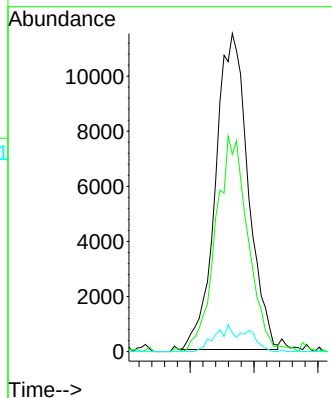
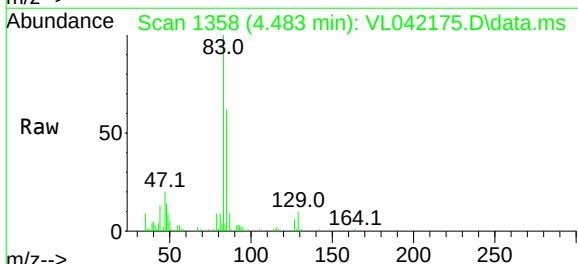
RT: 4.483 min Scan# 1358

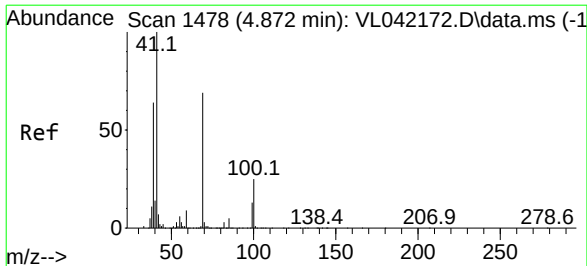
Delta R.T. -0.000 min

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#





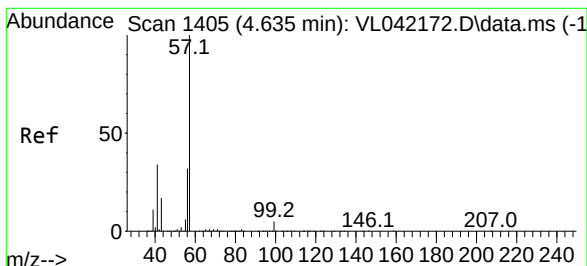
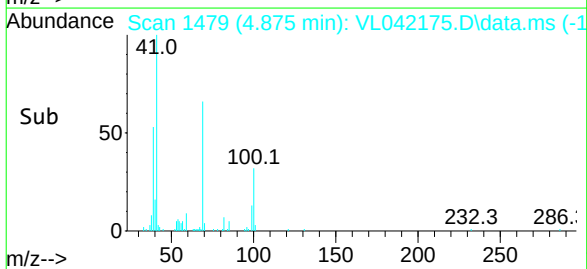
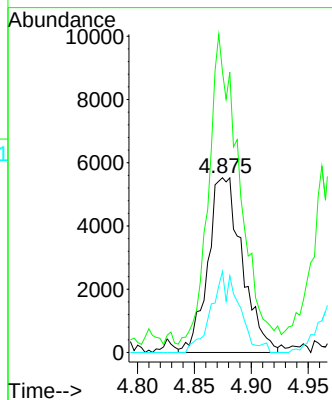
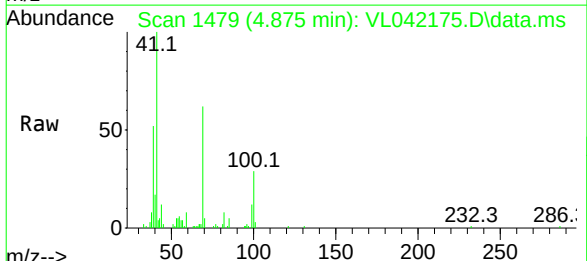
#43
Methyl Methacrylate
Concen: 0.528 ppbv m
RT: 4.875 min Scan# 1478
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

Tgt Ion: 69 Resp: 11583
Ion Ratio Lower Upper
69 100
41 150.3 123.8 185.6
100 37.9 28.4 42.6

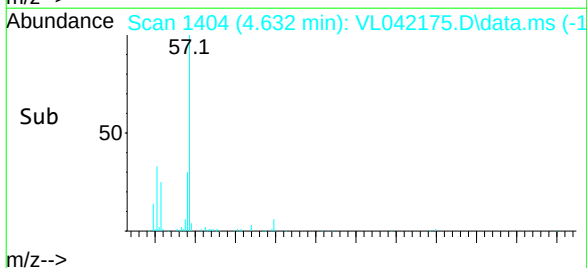
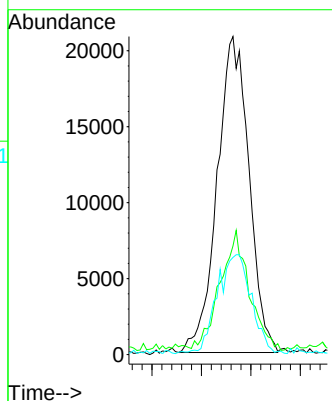
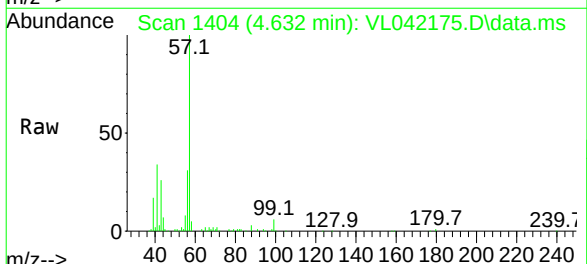
Manual Integrations
APPROVED

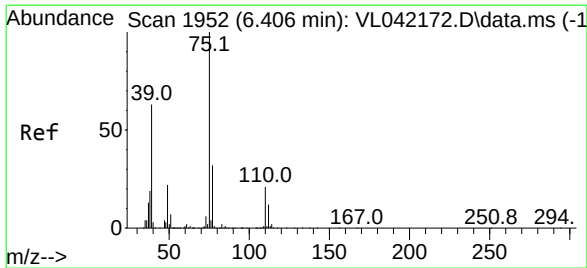
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#44
2,2,4-Trimethylpentane
Concen: 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

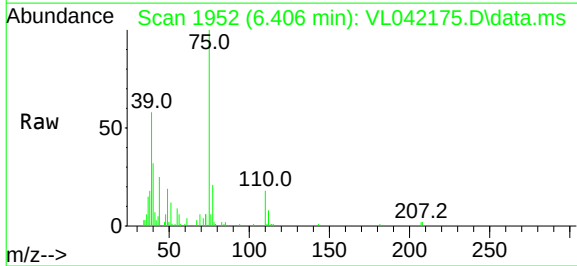
Tgt Ion: 57 Resp: 46646
Ion Ratio Lower Upper
57 100
41 36.7 26.8 40.2
56 34.3 25.6 38.4





#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

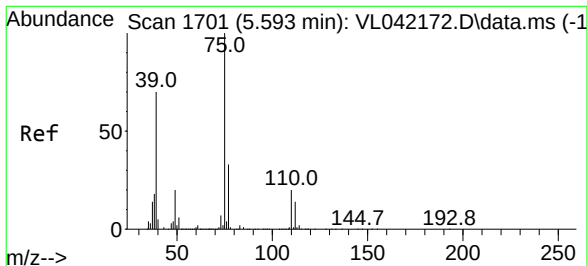
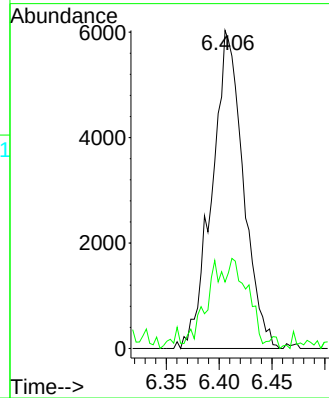
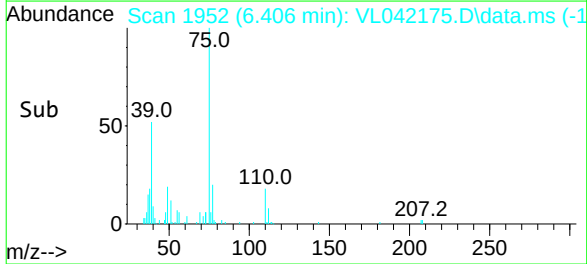
Instrument : MSVOA_L
ClientSampleId : VSTDIC0.5



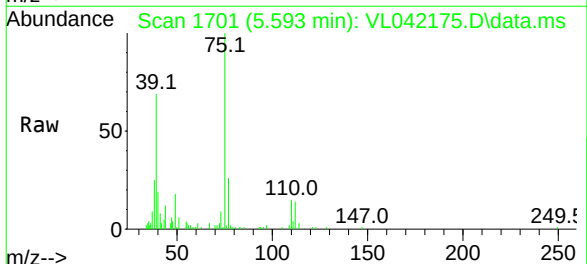
Tgt Ion: 75 Resp: 12404
Ion Ratio Lower Upper
75 100
77 20.9 26.0 39.0#

Manual Integrations
APPROVED

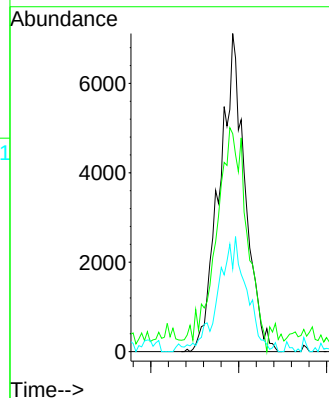
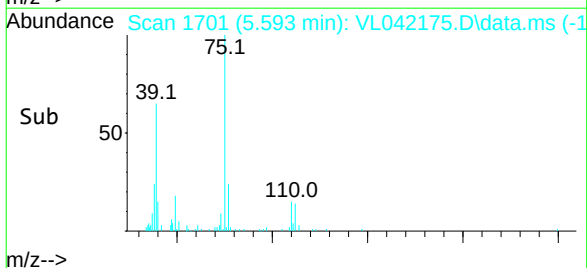
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

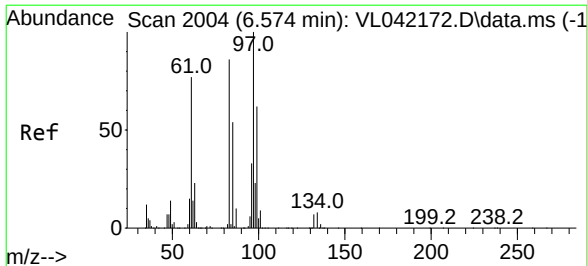


#46
cis-1,3-Dichloropropene
Concen: 0.497 ppbv m
RT: 5.593 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01



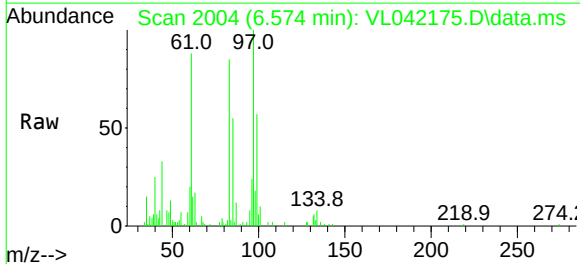
Tgt Ion: 75 Resp: 14374
Ion Ratio Lower Upper
75 100
39 68.5 55.8 83.6
77 26.1 26.0 39.0





#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

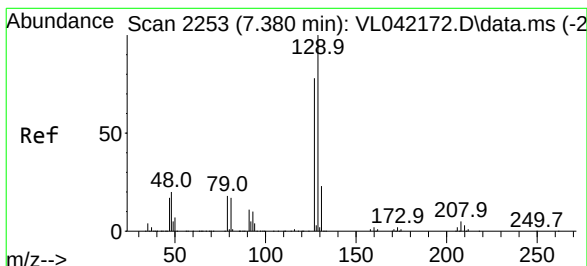
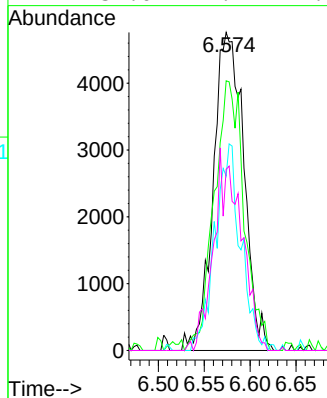
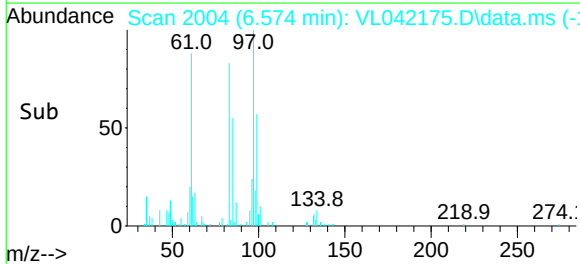
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion:	97	Resp:	10972
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

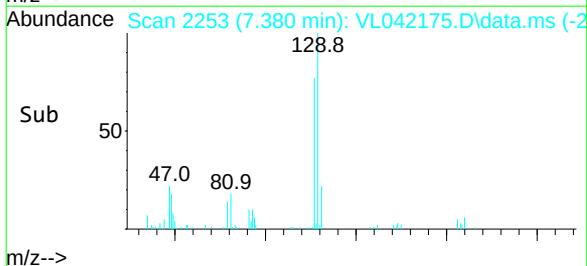
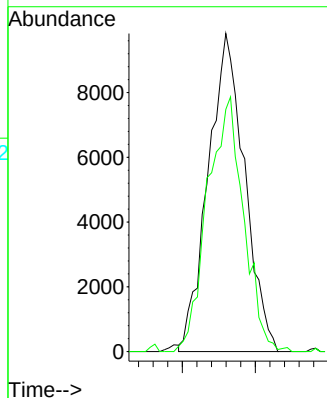
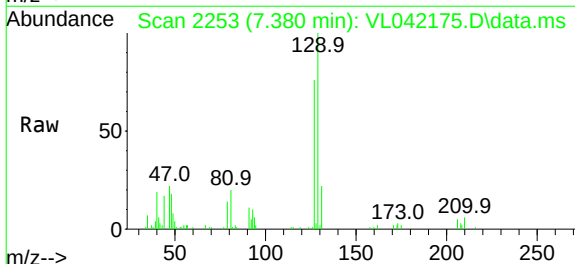
Manual Integrations
APPROVED

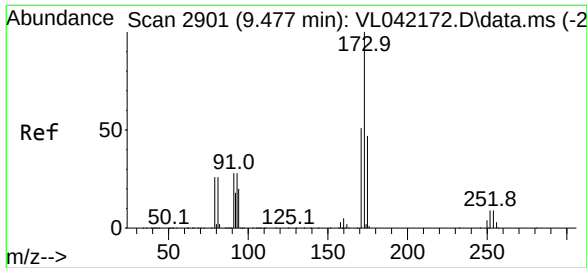
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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:	129	Resp:	17042
Ion	Ratio	Lower	Upper
129	100		
127	79.4	39.1	117.2





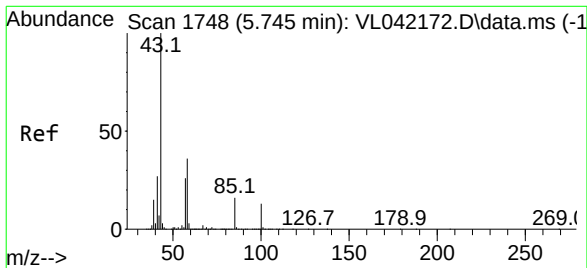
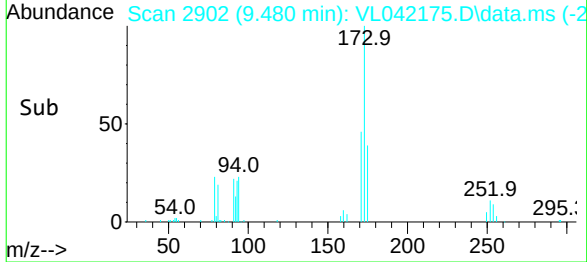
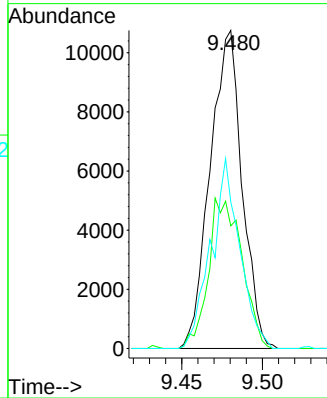
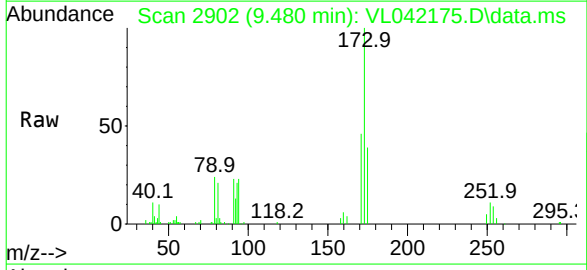
#49
Bromoform
Concen: 0.487 ppbv
RT: 9.480 min Scan# 2901
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
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

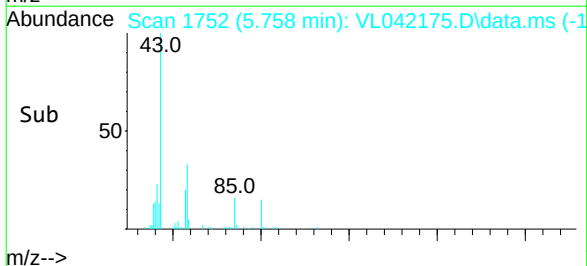
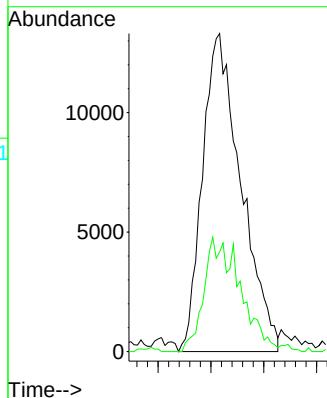
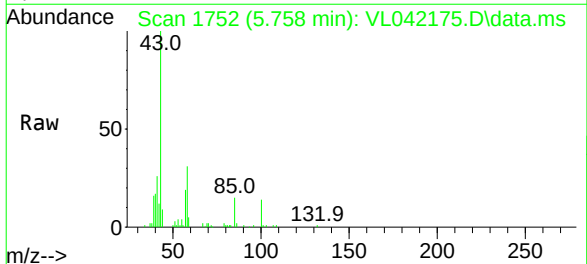
Manual Integrations
APPROVED

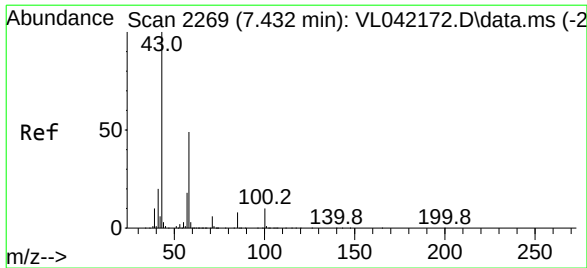
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

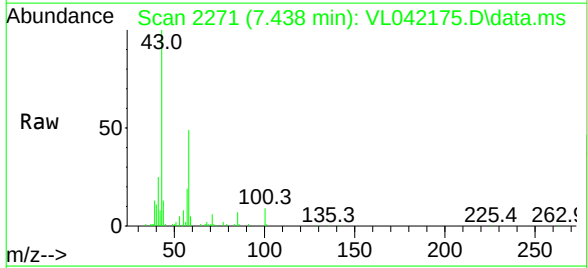
Tgt Ion: 43 Resp: 33674
Ion Ratio Lower Upper
43 100
58 34.4 29.0 43.6





#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

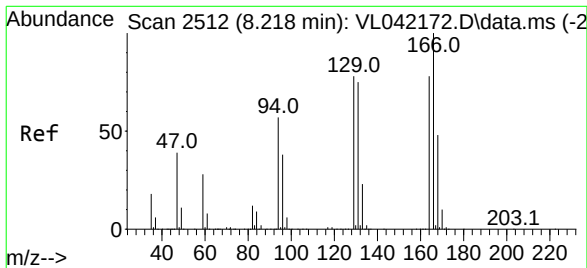
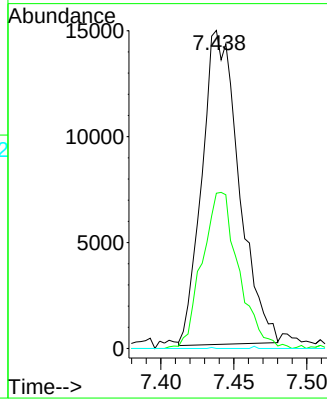
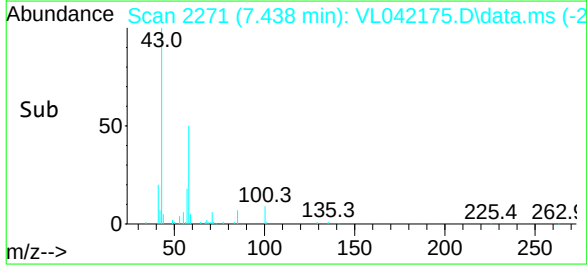
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



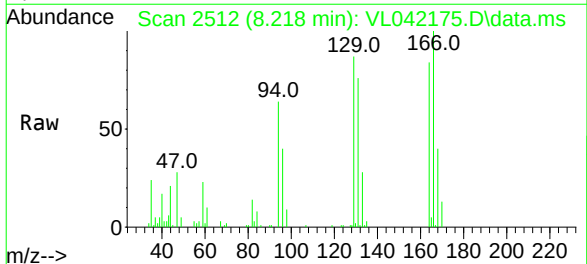
Tgt Ion: 43 Resp: 26154
Ion Ratio Lower Upper
43 100
58 49.8 39.7 59.5
98 0.0 0.1 0.1#

Manual Integrations
APPROVED

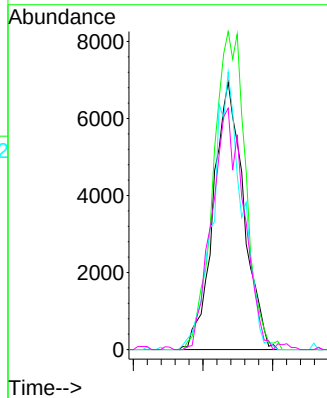
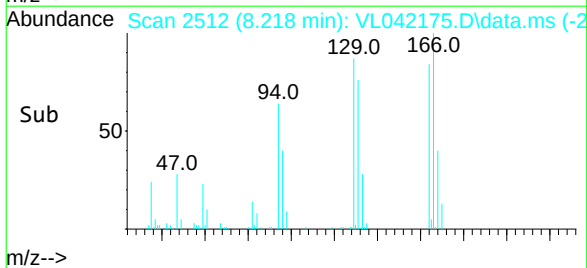
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

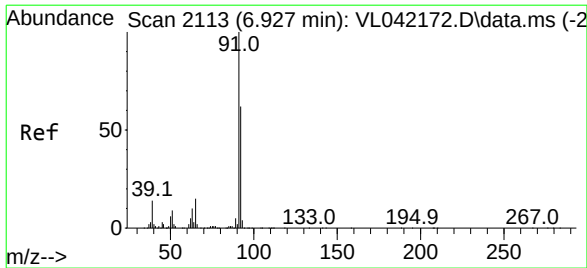


#52
Tetrachloroethene
Concen: 0.510 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01



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

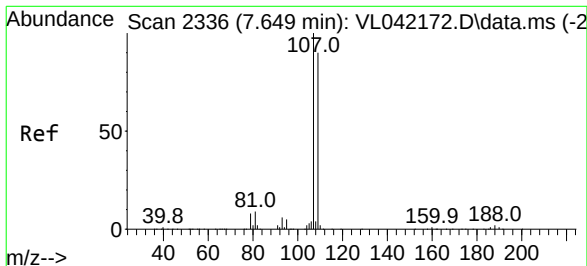
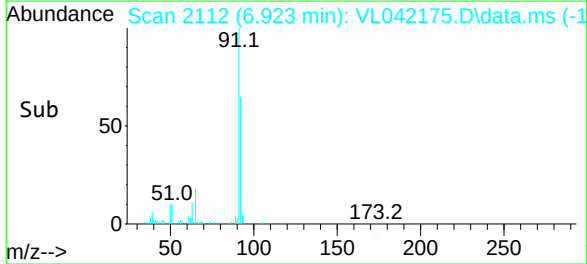
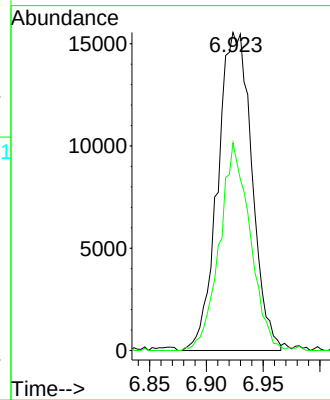
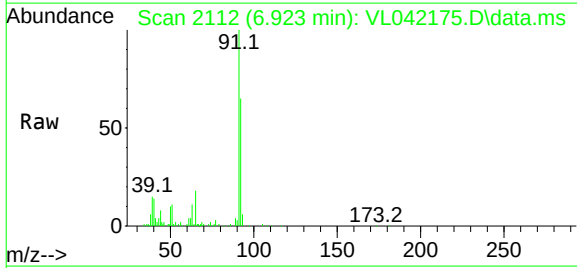
92 58.9 48.4 72.6

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

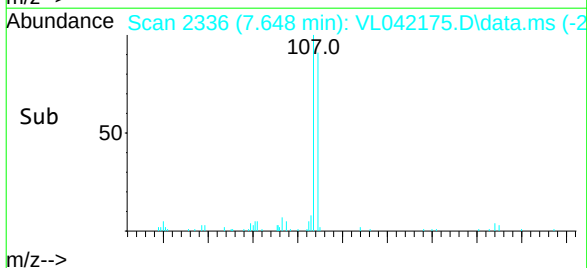
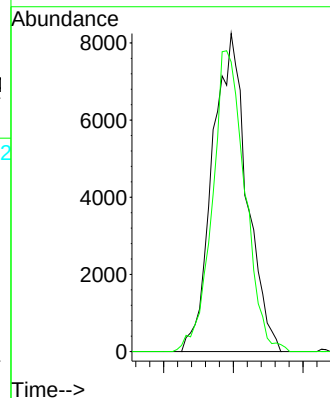
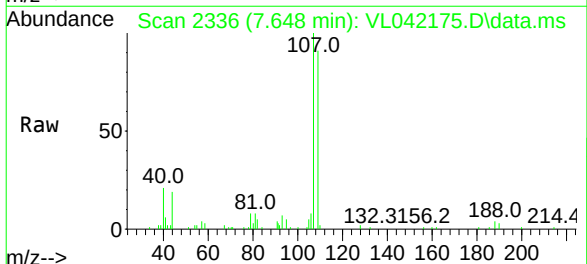
Acq: 27 Mar 2025 10:01

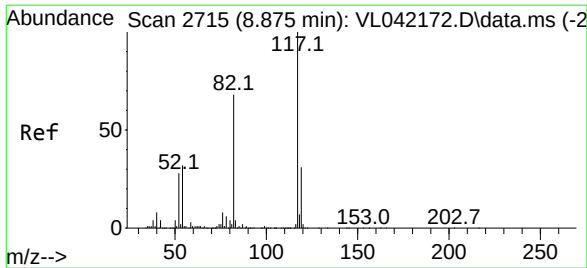
Tgt Ion:107 Resp: 14220

Ion Ratio Lower Upper

107 100

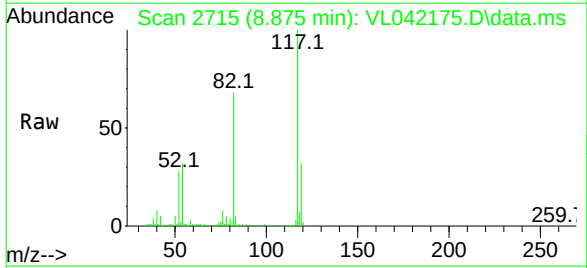
109 89.1 72.2 108.4





#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

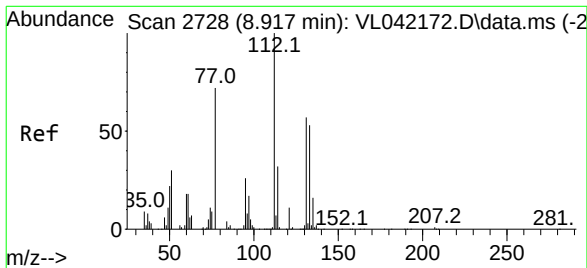
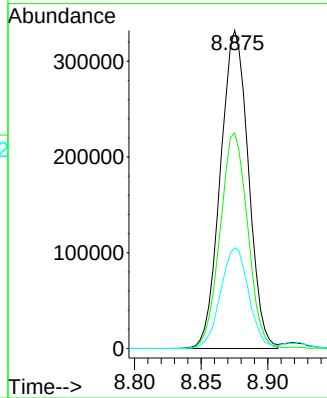
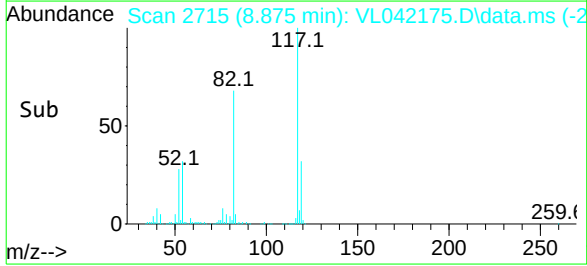
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



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

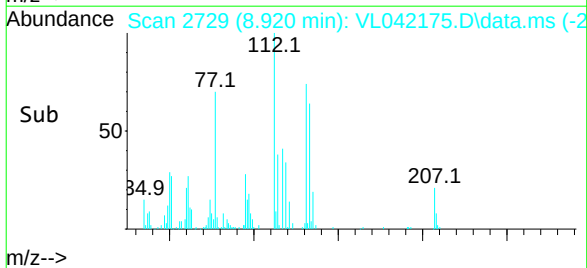
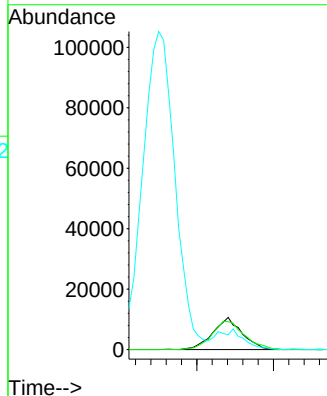
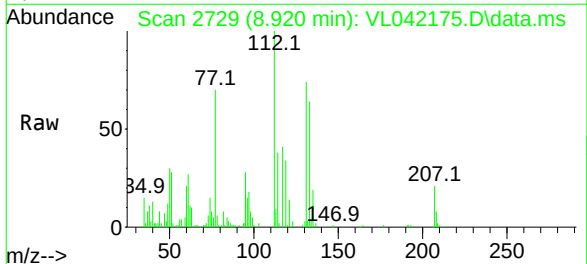
Manual Integrations
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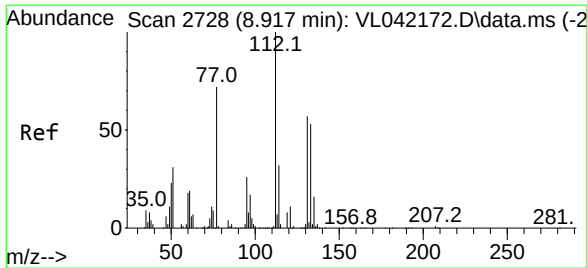
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 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

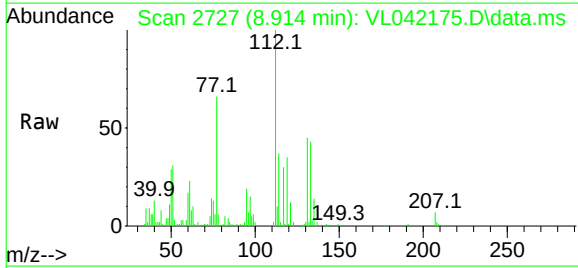
Tgt Ion:131 Resp: 13959
Ion Ratio Lower Upper
131 100
133 99.6 76.6 114.8
119 1170.3 49.8 74.6#





#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

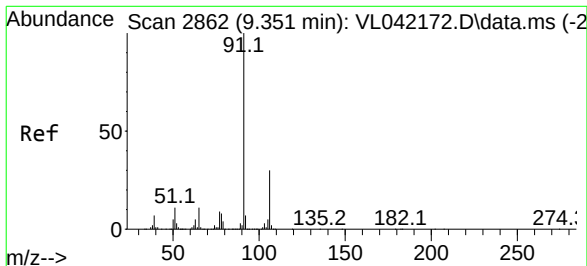
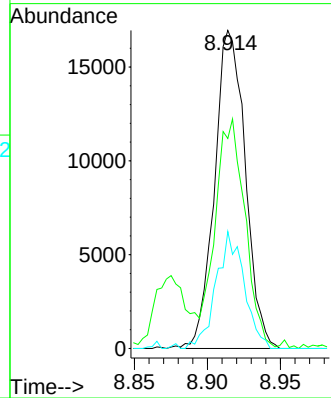
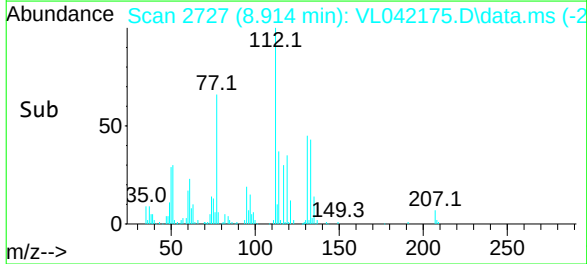
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



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#

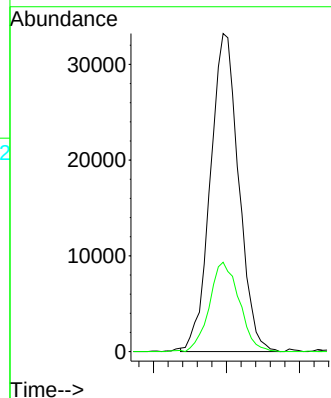
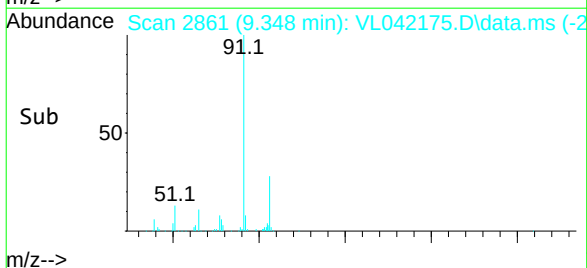
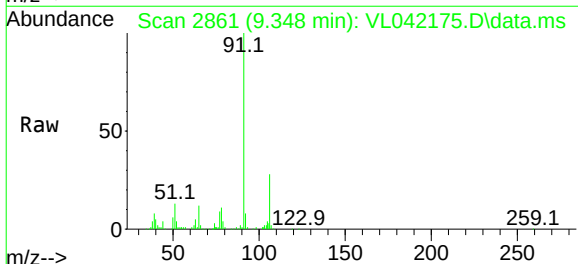
Manual Integrations
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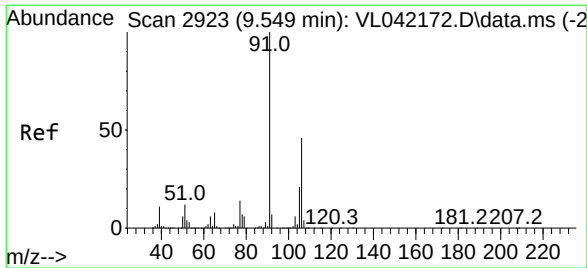
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





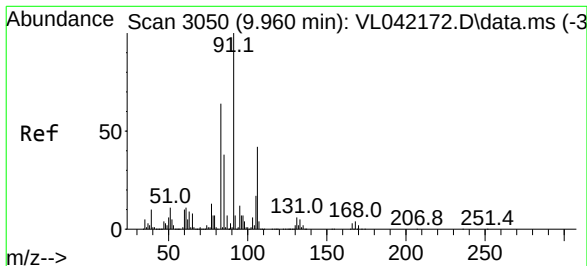
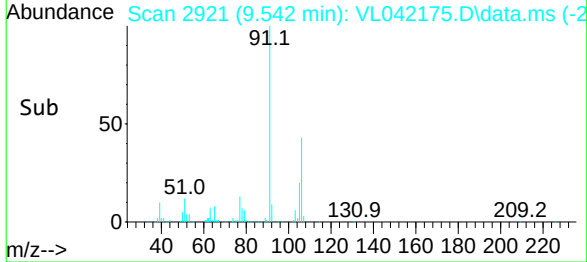
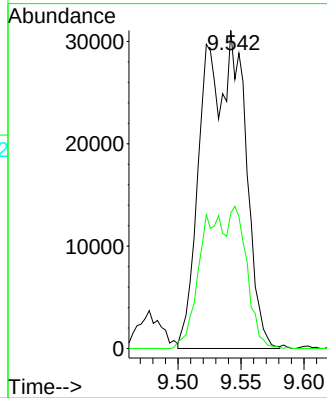
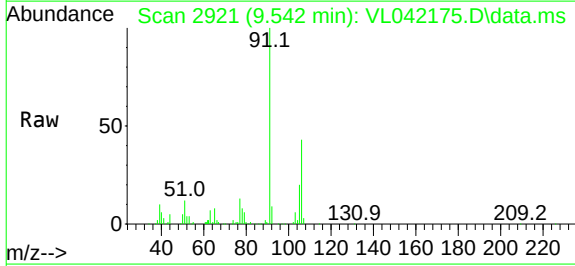
#59
m/p-Xylene
Concen: 1.060 ppbv m
RT: 9.542 min Scan# 29
Delta R.T. -0.007 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 73028
Ion Ratio Lower Upper
91 100
106 45.2 36.4 54.6

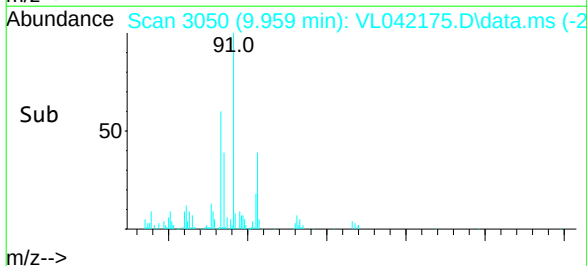
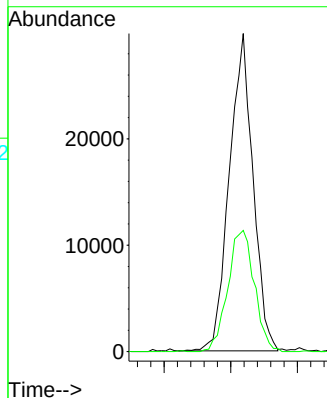
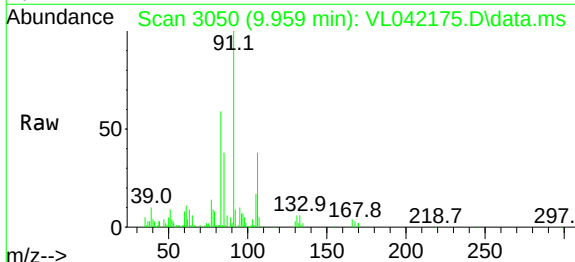
Manual Integrations
APPROVED

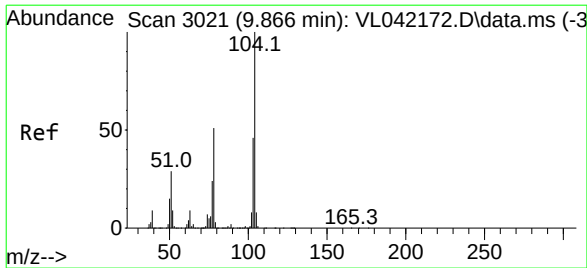
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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 :

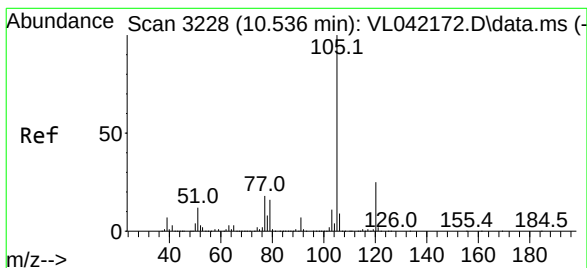
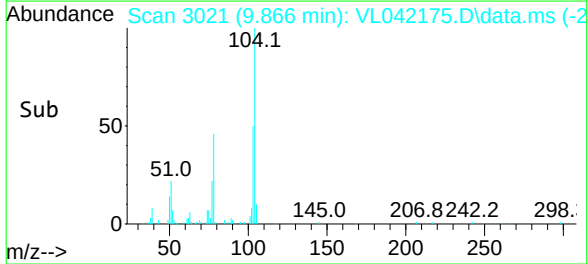
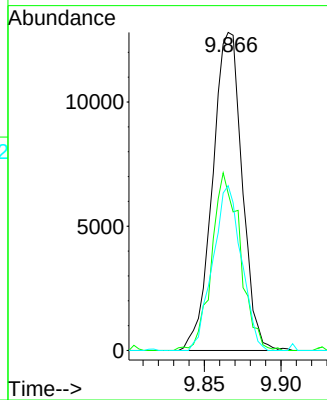
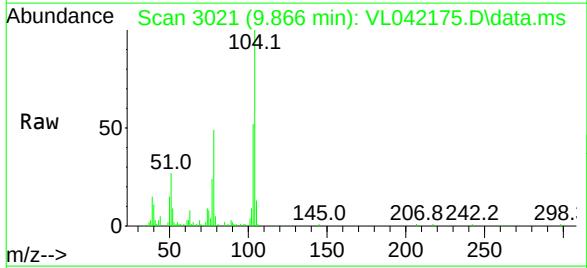
VSTDICC0.5

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

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#62

Isopropylbenzene

Concen: 0.538 ppbv

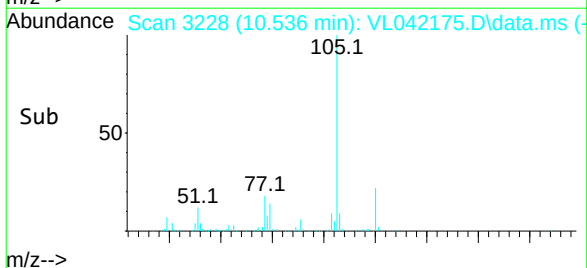
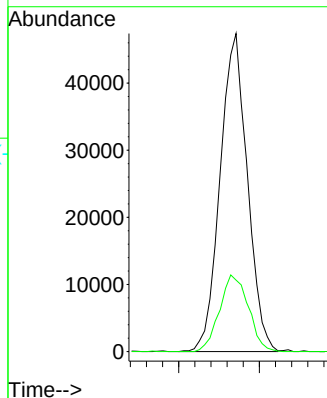
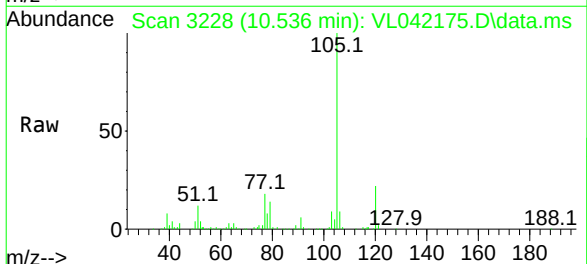
RT: 10.536 min Scan# 3228

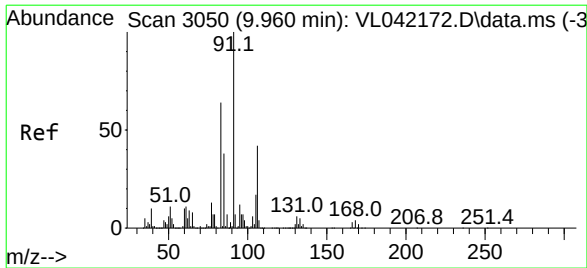
Delta R.T. -0.000 min

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





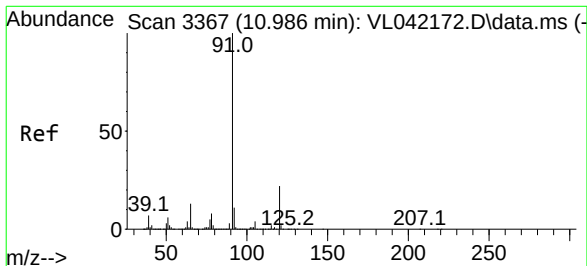
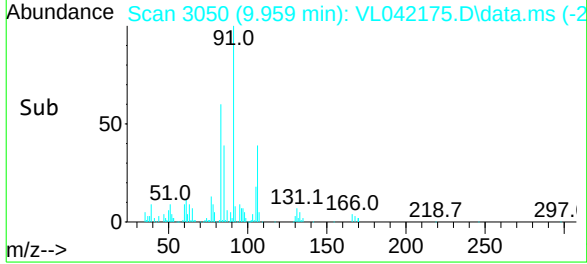
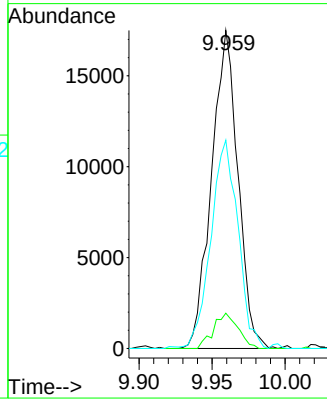
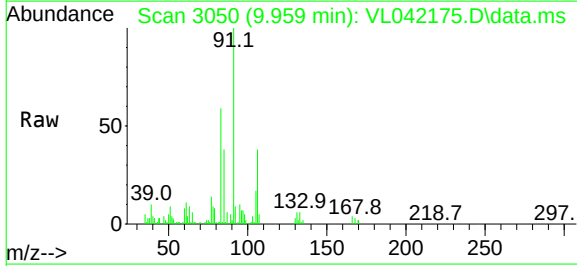
#63
1,1,2,2-Tetrachloroethane
Concen: 0.525 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument : MSVOA_L
ClientSampleId : 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

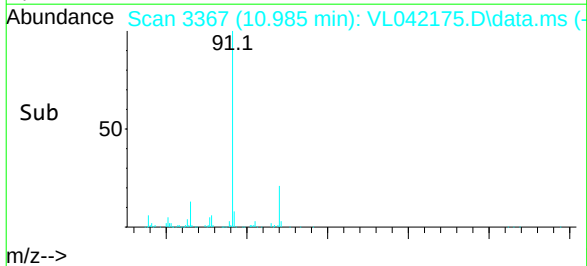
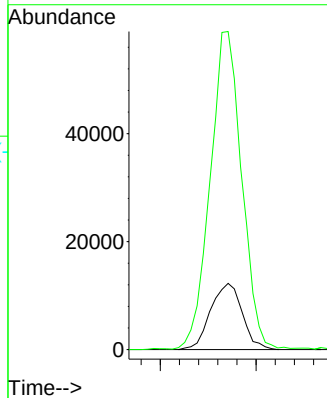
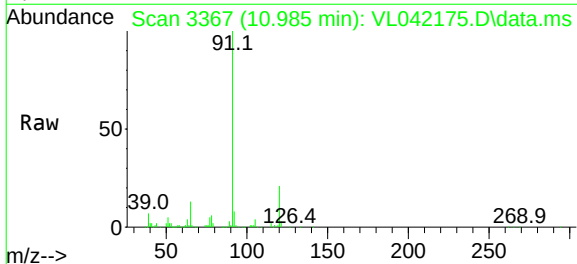
Manual Integrations
APPROVED

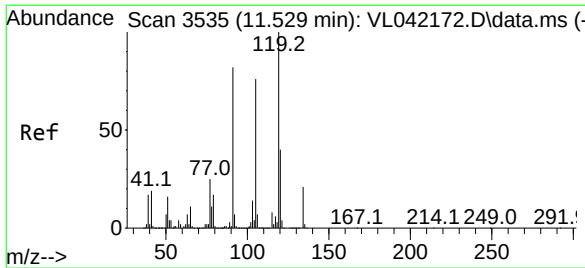
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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:	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# 3511

Delta R.T. -0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

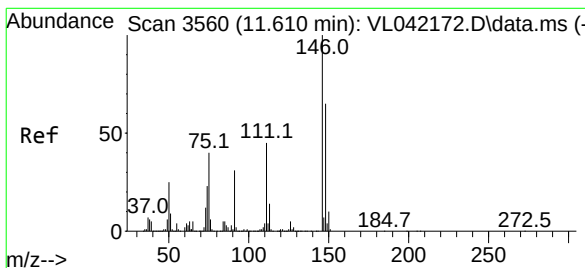
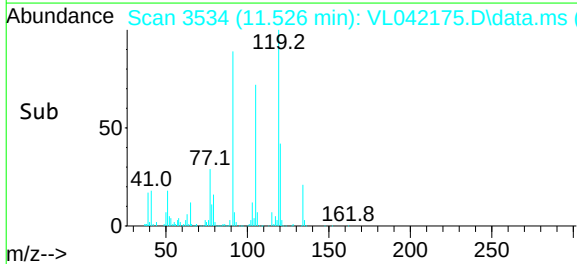
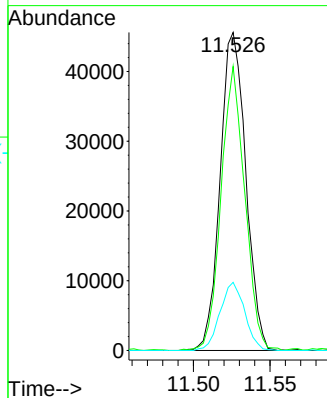
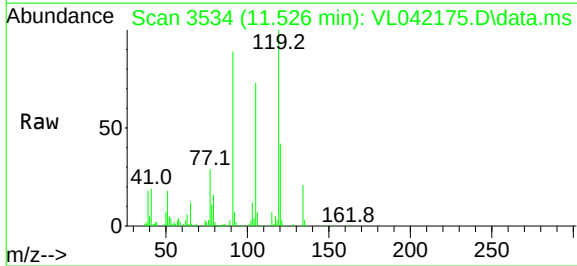
VSTDIC0.5

Tgt Ion:	119	Resp:	53115
Ion	Ratio	Lower	Upper
119	100		
91	82.9	66.0	99.0
134	20.6	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: 0.520 ppbv

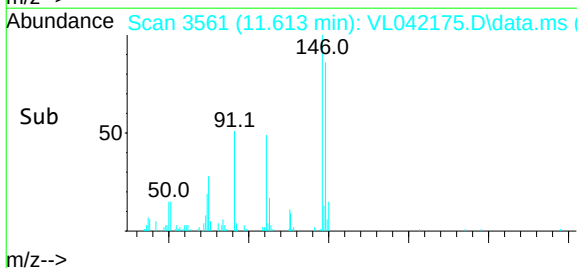
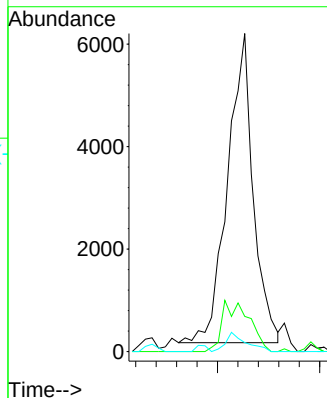
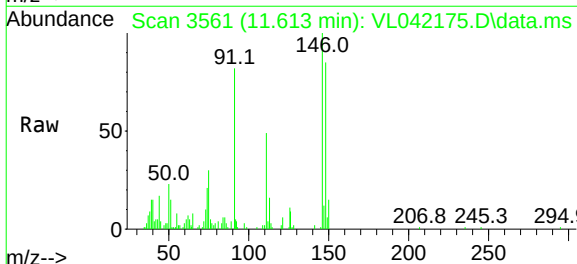
RT: 11.613 min Scan# 3561

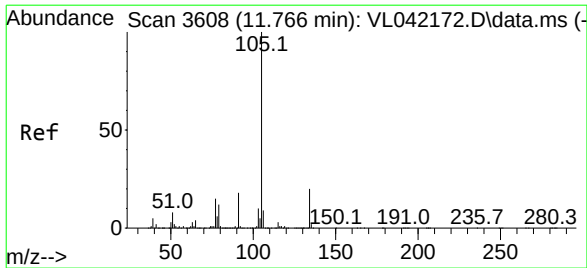
Delta R.T. 0.003 min

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

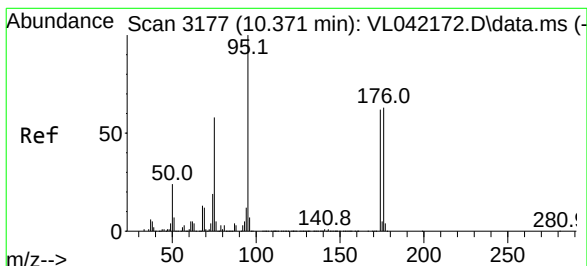
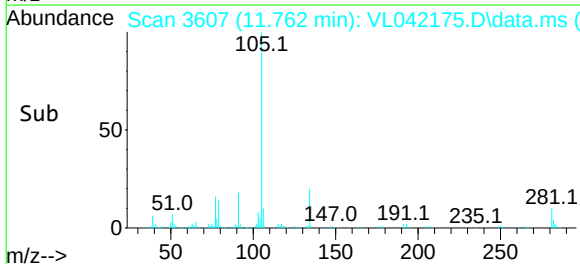
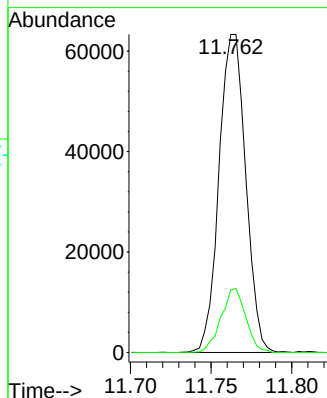
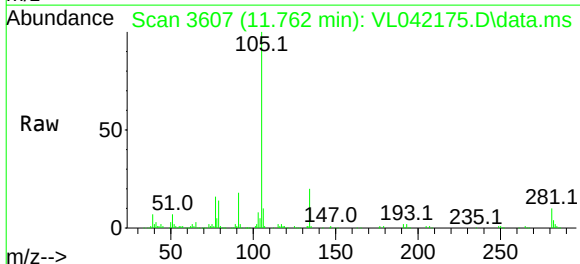
134 18.6 15.5 23.3

Manual Integrations

APPROVED

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

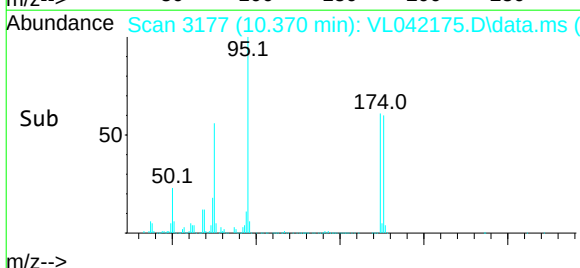
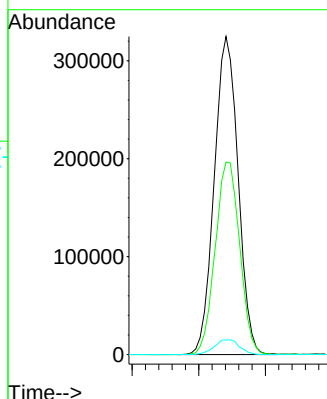
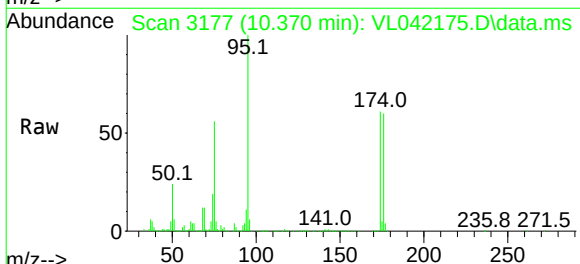
Tgt Ion: 95 Resp: 403513

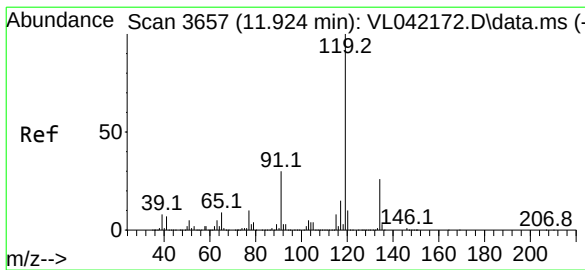
Ion Ratio Lower Upper

95 100

174 62.3 50.6 76.0

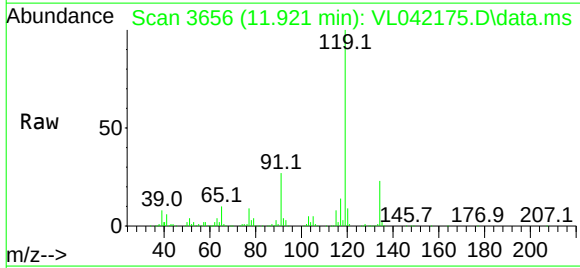
175 4.9 3.8 5.6





#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

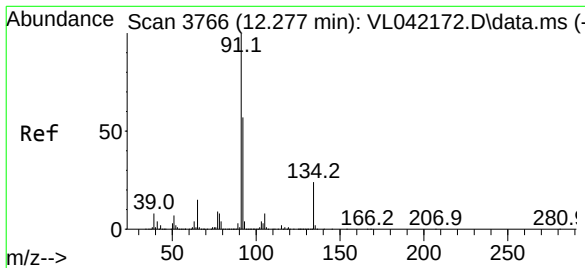
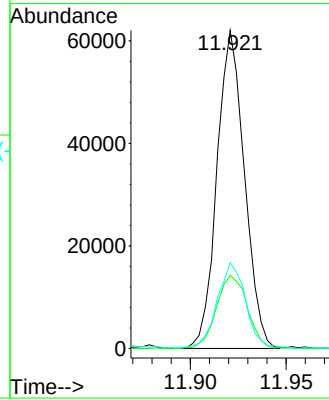
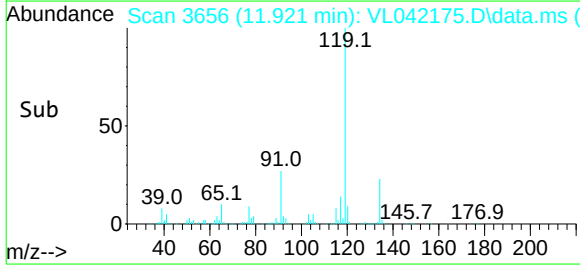
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



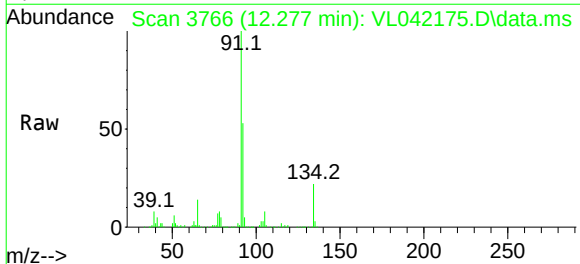
Tgt Ion: 119 Resp: 61933
Ion Ratio Lower Upper
119 100
134 25.8 20.4 30.6
91 29.4 23.7 35.5

Manual Integrations
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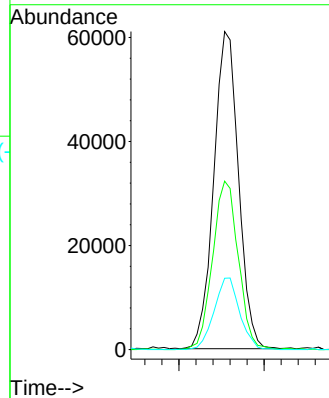
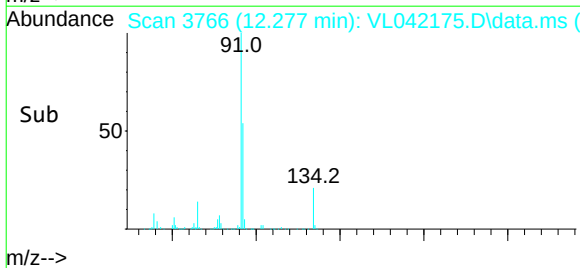
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

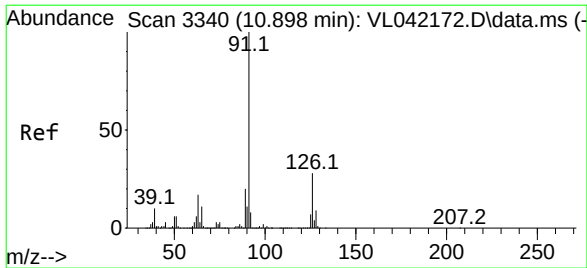


#70
n-Butylbenzene
Concen: 0.527 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01



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





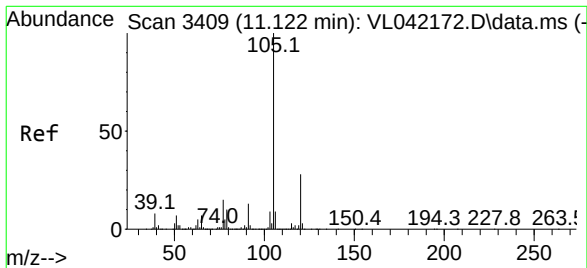
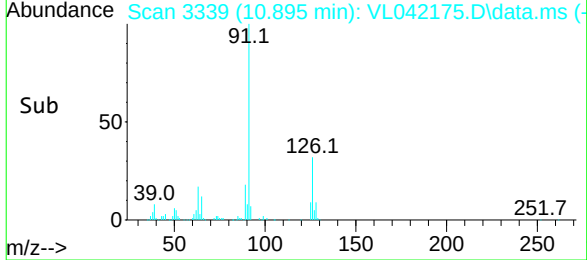
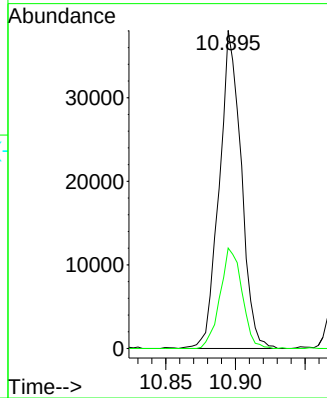
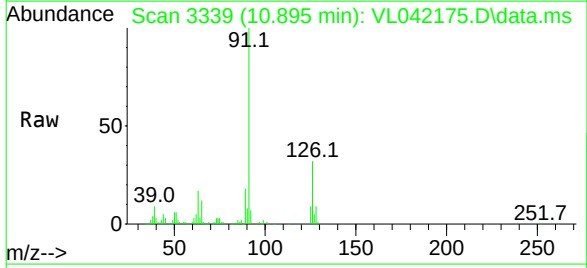
#71
2-Chlorotoluene
Concen: 0.520 ppbv
RT: 10.895 min Scan# 3339
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 41637
Ion Ratio Lower Upper
91 100
126 31.7 11.6 46.4

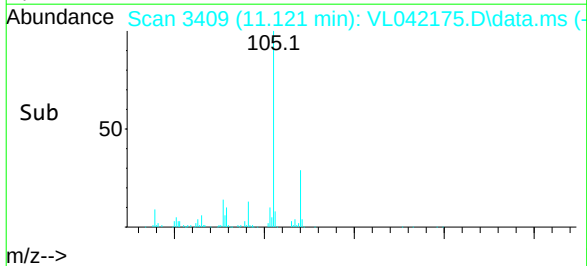
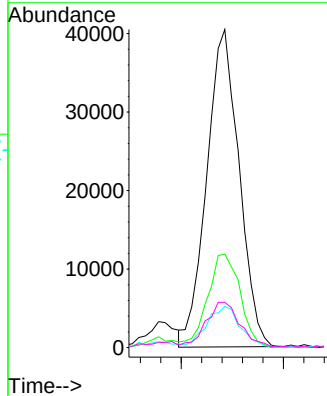
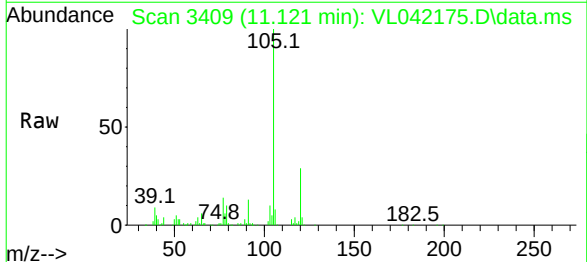
Manual Integrations
APPROVED

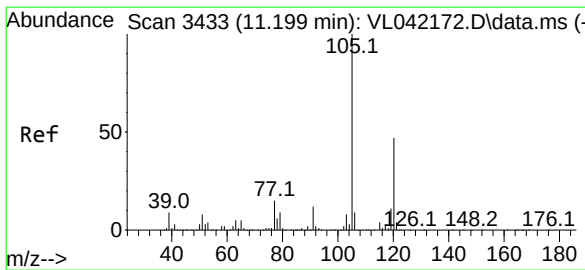
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

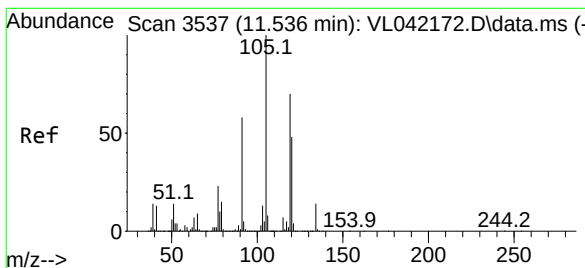
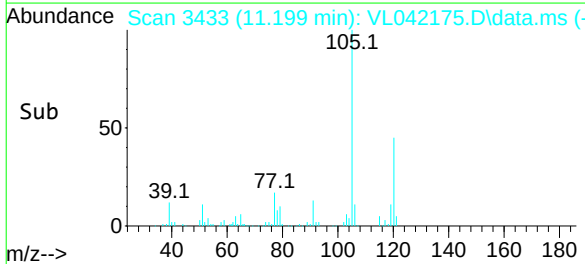
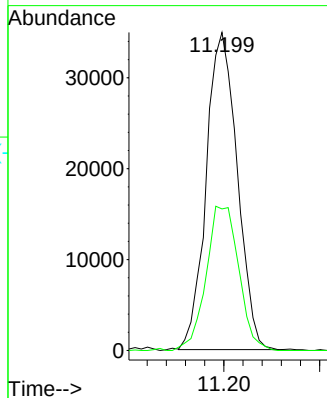
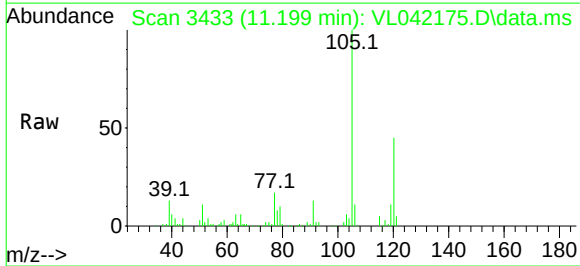
120 44.6 37.4 56.0

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

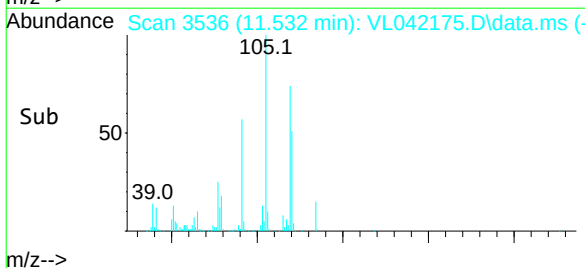
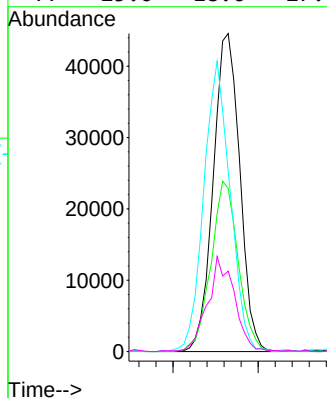
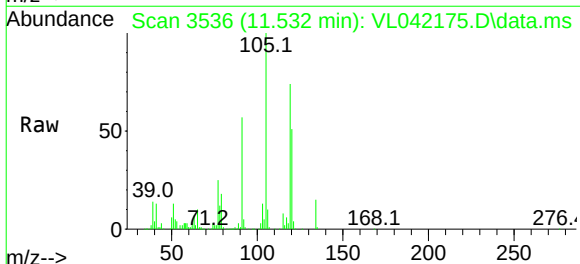
Ion Ratio Lower Upper

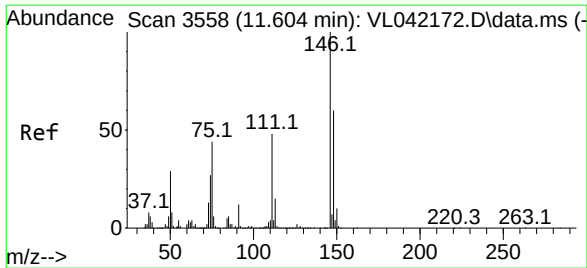
105 100

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 :

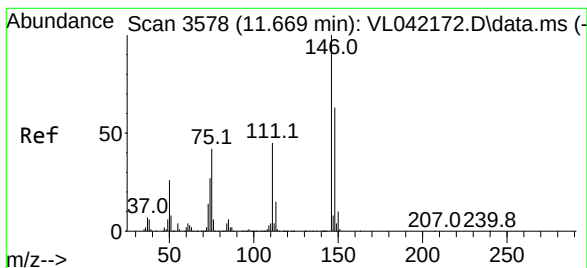
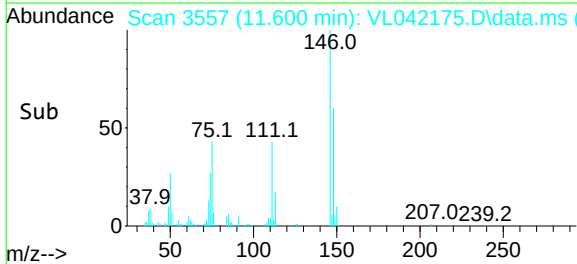
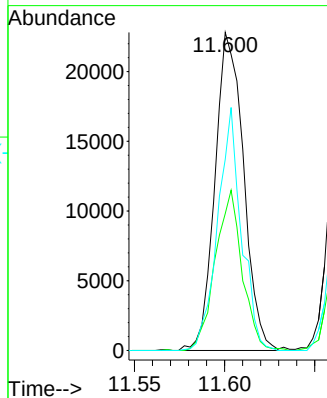
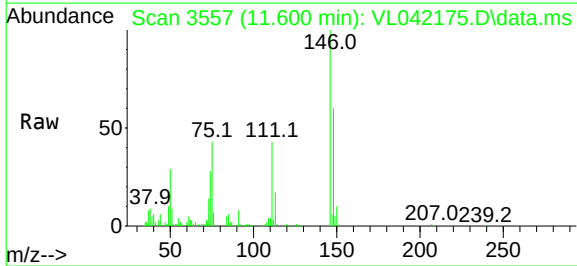
VSTDIC0.5

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

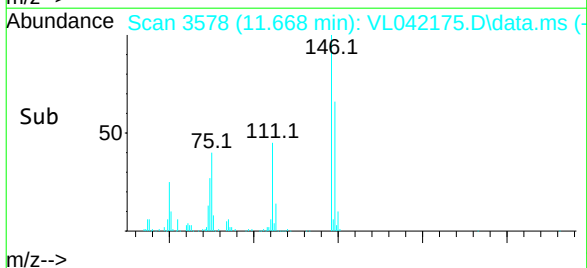
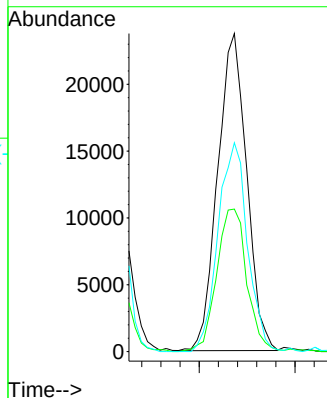
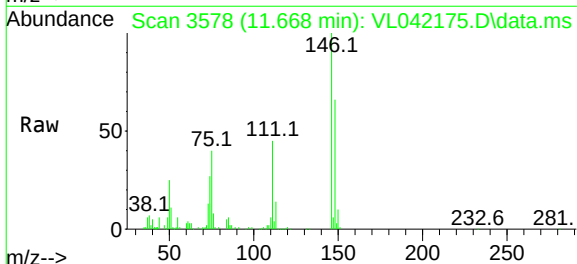
RT: 11.668 min Scan# 3578

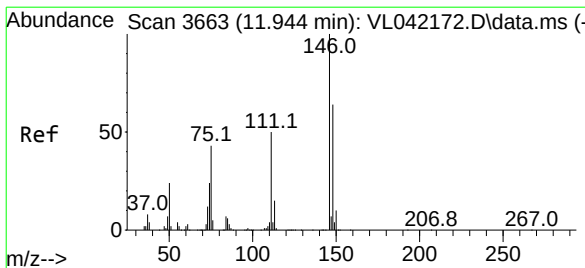
Delta R.T. -0.000 min

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 :

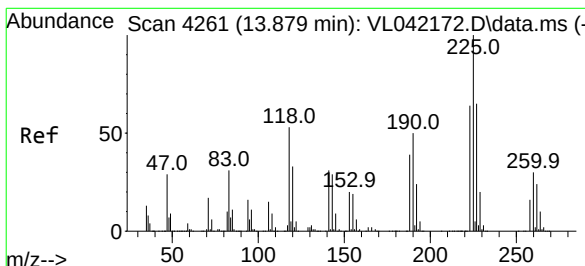
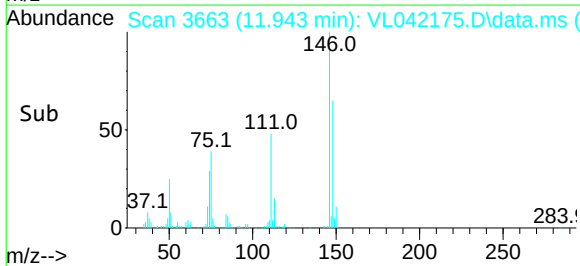
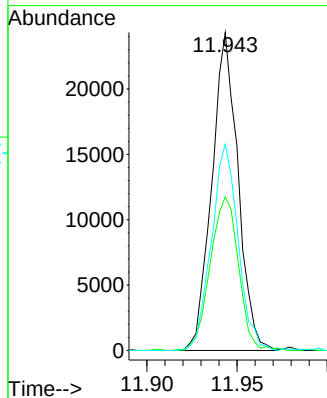
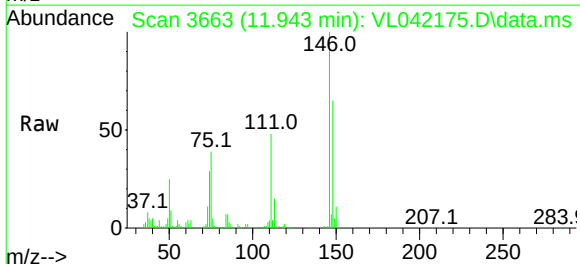
VSTDIC0.5

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

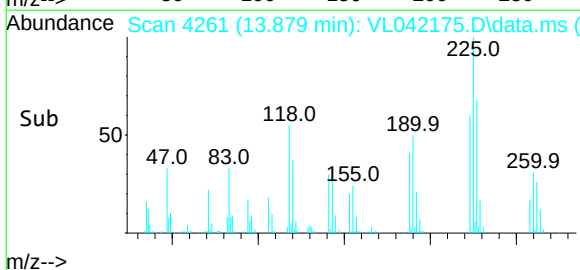
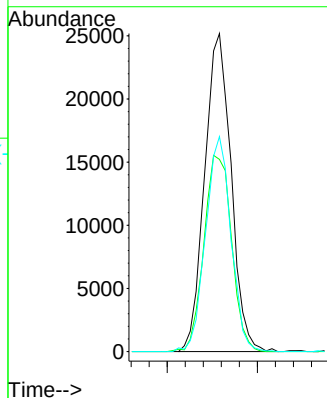
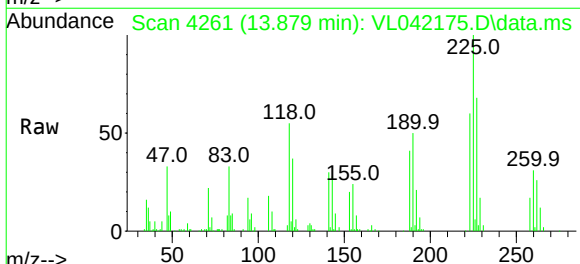
RT: 13.879 min Scan# 4261

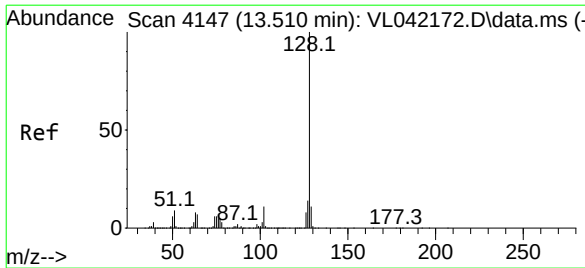
Delta R.T. -0.000 min

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 :

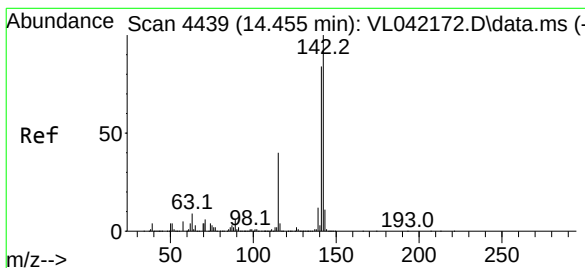
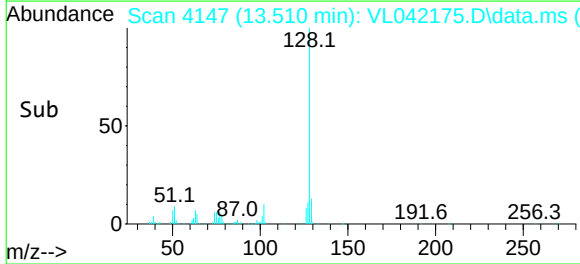
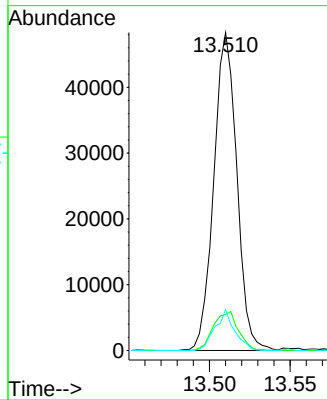
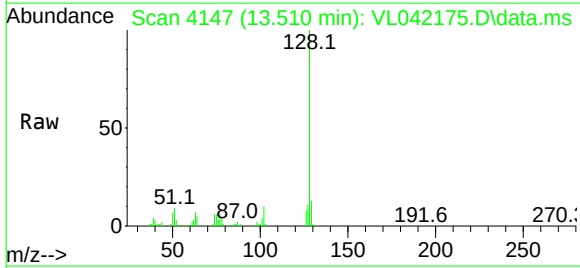
VSTDICC0.5

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

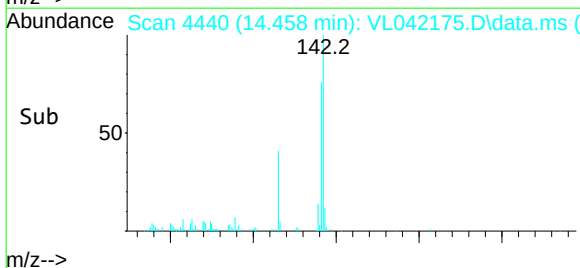
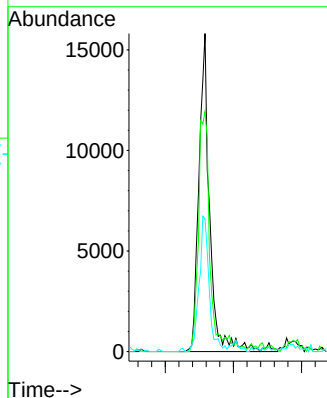
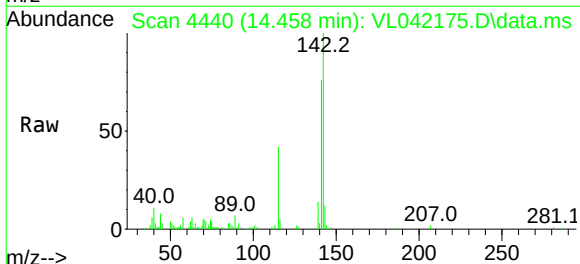
RT: 14.458 min Scan# 4440

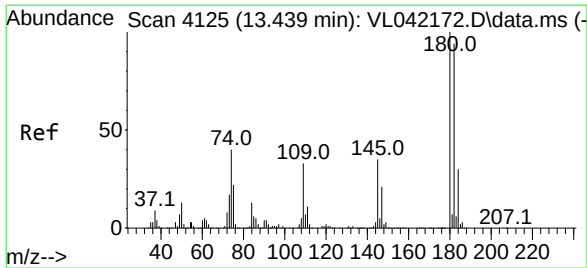
Delta R.T. 0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

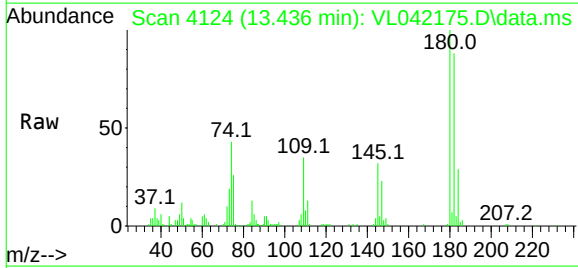
Tgt Ion:	142	Resp:	17486
Ion Ratio	Lower	Upper	
142	100		
141	83.3	66.3	99.5
115	43.5	31.6	47.4





#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

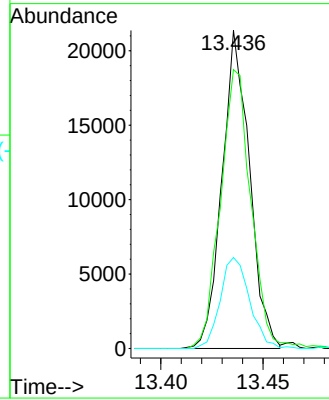
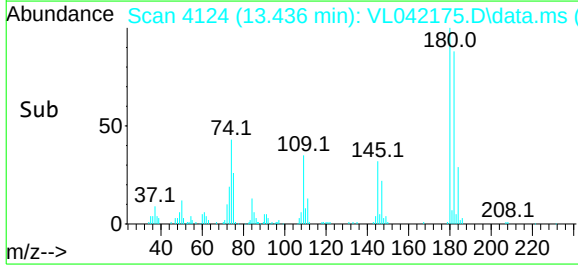
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



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

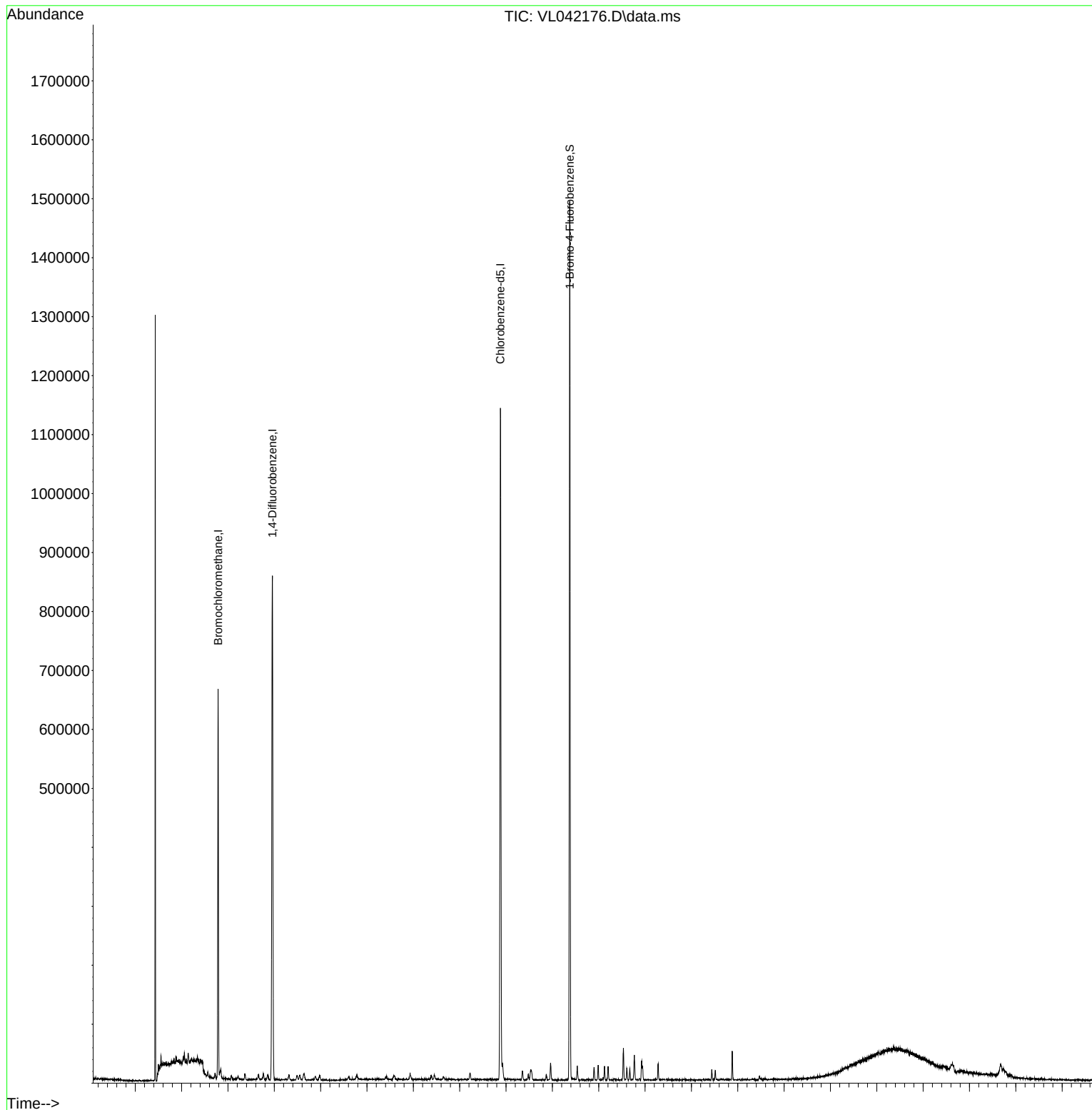
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Data File : VL042176.D
Acq On : 27 Mar 2025 10:32
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

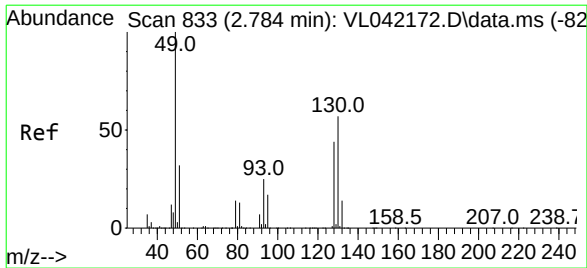
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

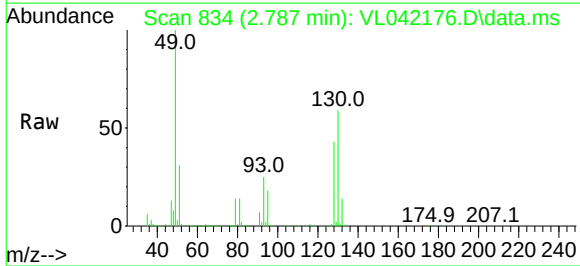
Quant Time: Mar 28 01:35:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration





#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

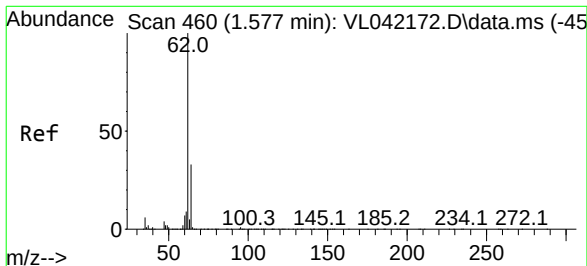
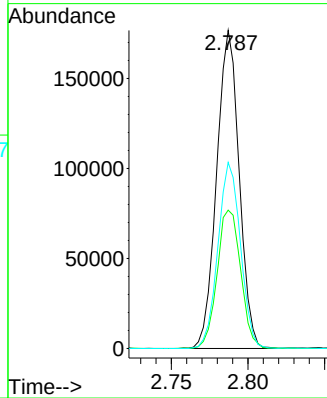
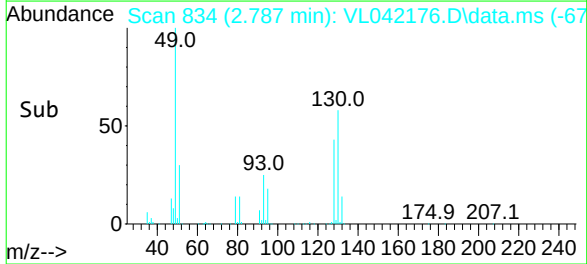
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



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

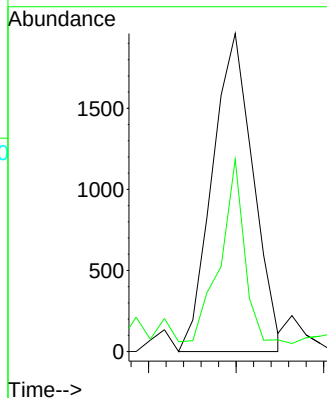
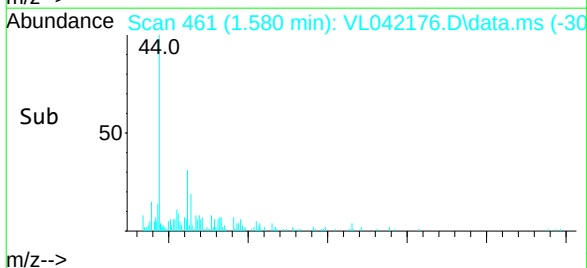
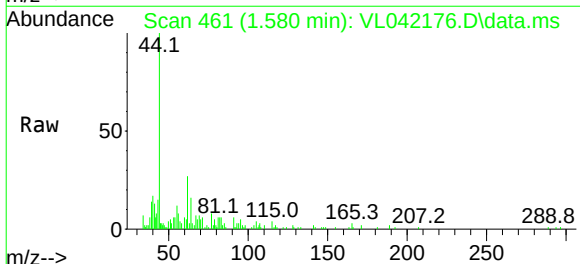
Manual Integrations
APPROVED

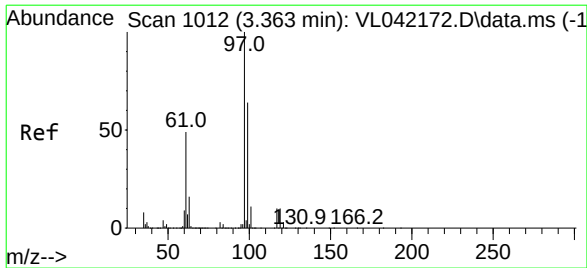
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

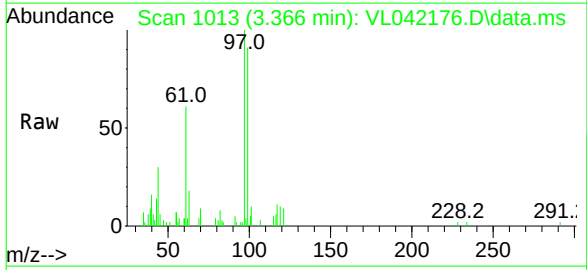
Tgt Ion: 62 Resp: 1274
Ion Ratio Lower Upper
62 100
64 66.4 26.6 40.0#





#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

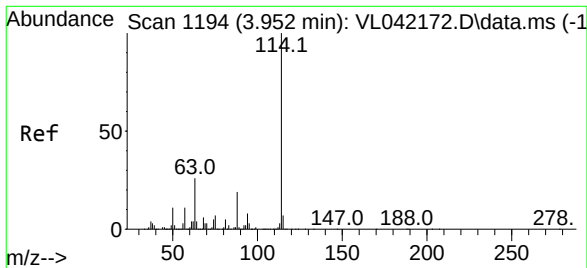
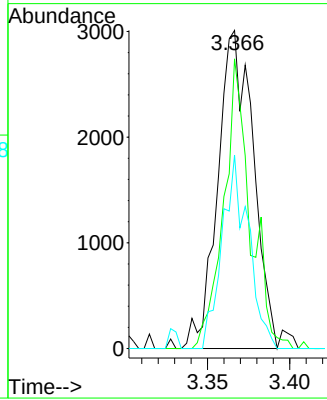
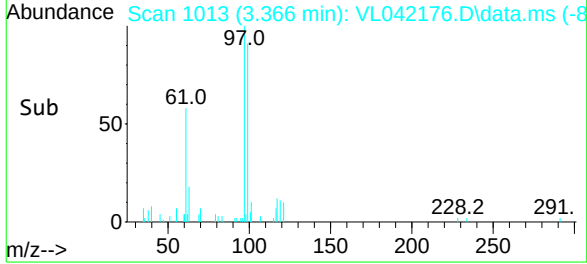
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



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

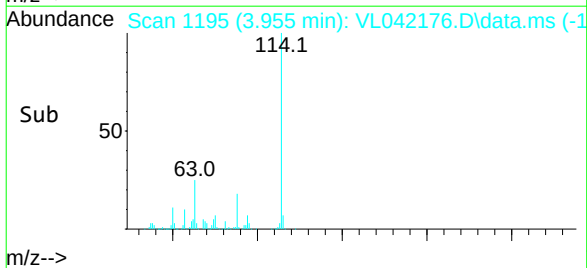
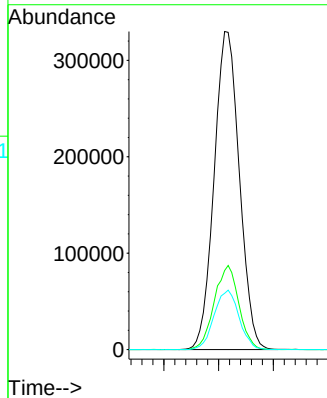
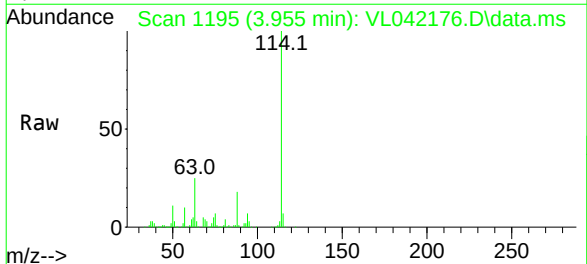
Manual Integrations
APPROVED

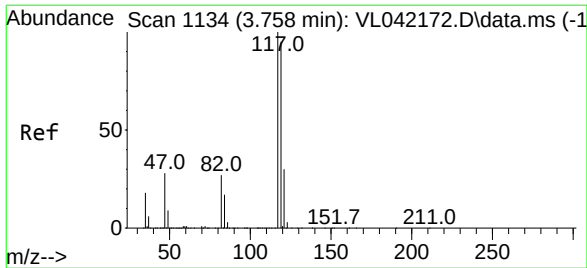
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





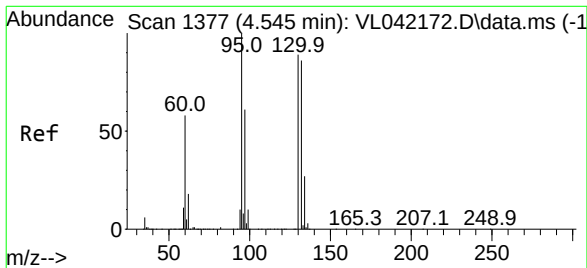
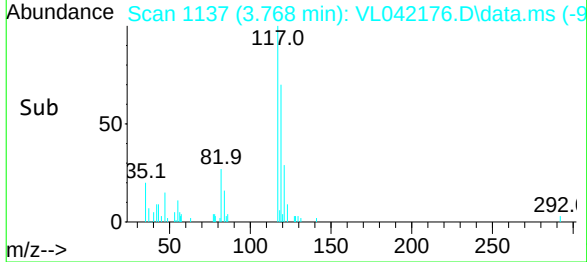
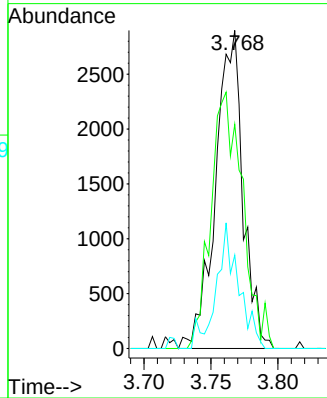
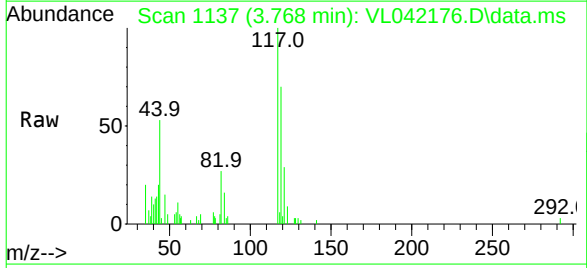
#35
Carbon Tetrachloride
Concen: 0.102 ppbv m
RT: 3.768 min Scan# 1134
Delta R.T. 0.010 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Instrument : MSVOA_L
ClientSampleId : VSTDIC0.1

Tgt Ion	Ratio	Lower	Upper
117	100		
119	70.5	76.2	114.2
121	29.4	24.2	36.4

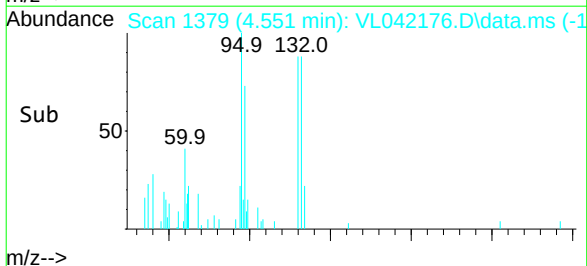
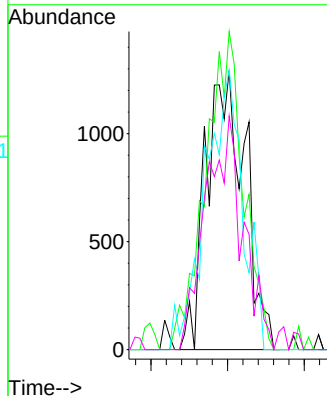
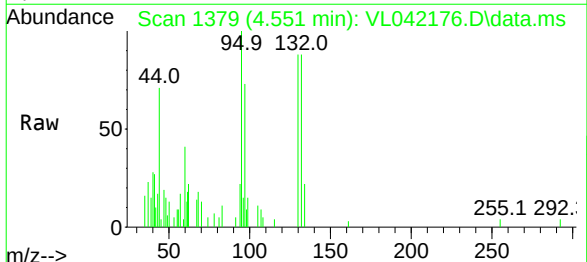
Manual Integrations
APPROVED

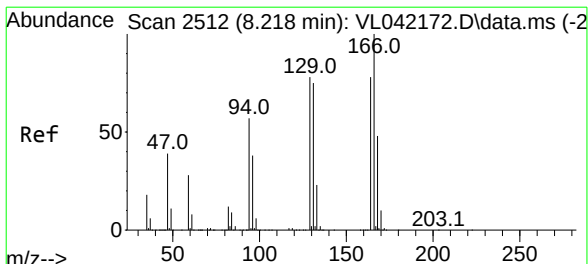
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#38
Trichloroethene
Concen: 0.106 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	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





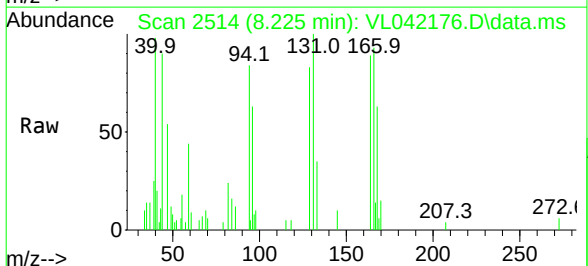
#52
Tetrachloroethene
 Concen: 0.091 ppbv m
 RT: 8.225 min Scan# 2512
 Delta R.T. 0.006 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_L

ClientSampleId :

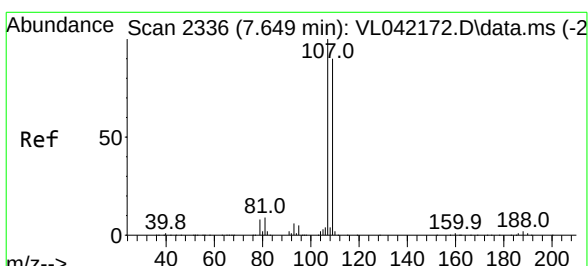
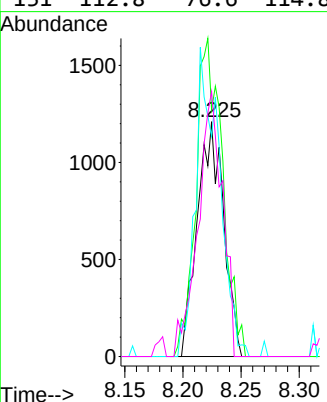
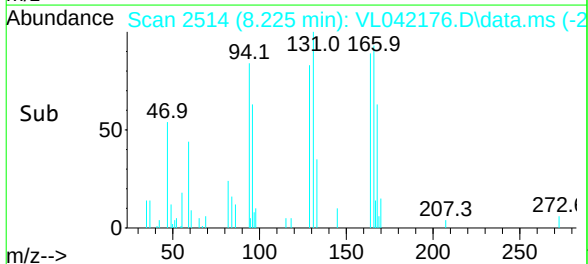
VSTDIC0.1



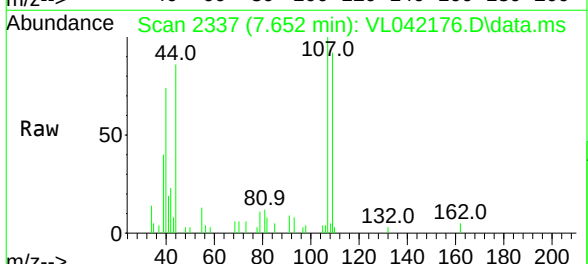
Tgt Ion:	164	Resp:	1895
Ion	Ratio	Lower	Upper
164	100		
166	105.1	102.5	153.7
129	93.7	79.8	119.8
131	112.8	76.6	114.8

Manual Integrations
APPROVED

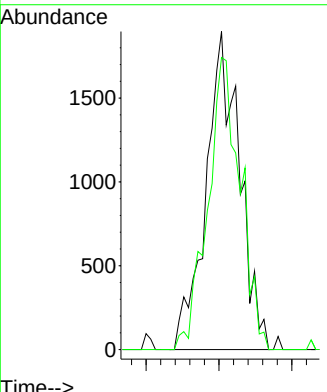
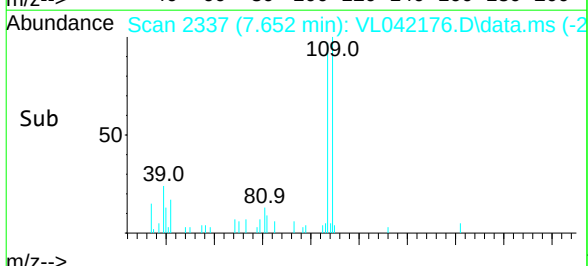
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

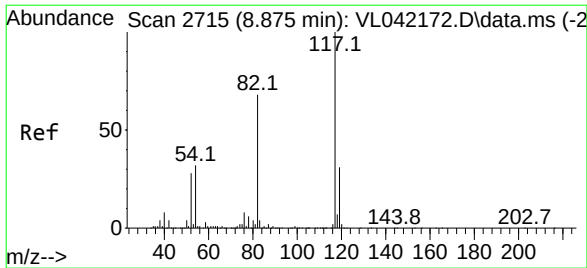


#54
1,2-Dibromoethane
 Concen: 0.108 ppbv m
 RT: 7.652 min Scan# 2337
 Delta R.T. 0.003 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32



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

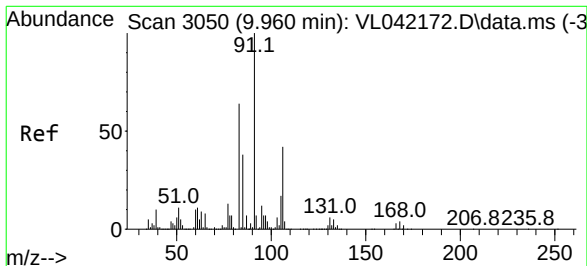
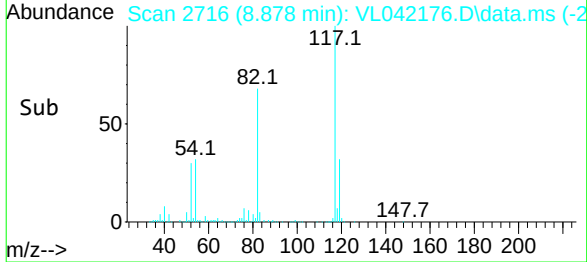
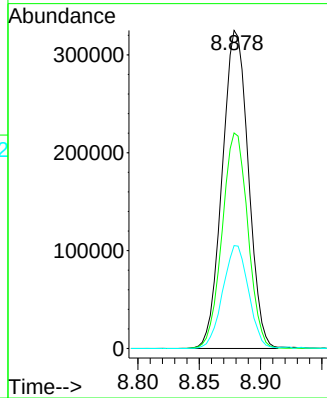
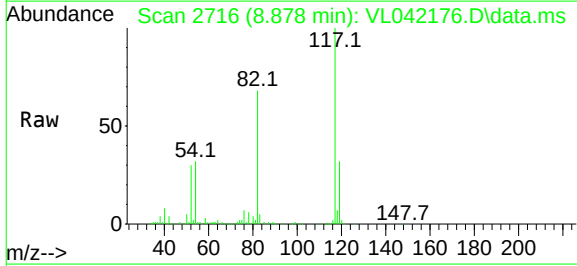
ClientSampleId :

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

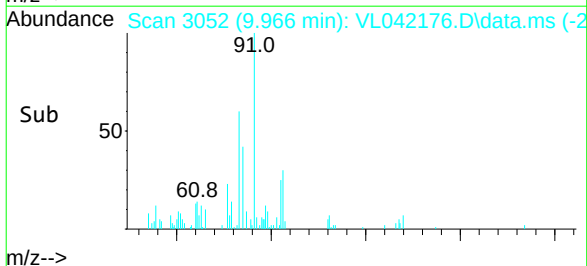
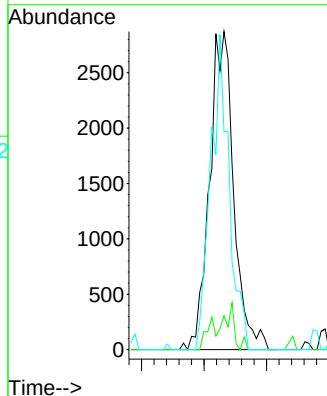
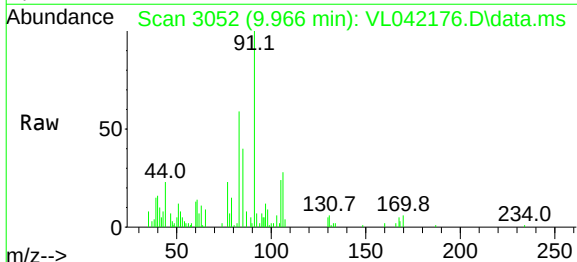
RT: 9.966 min Scan# 3052

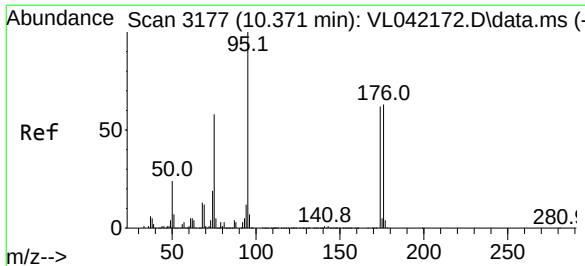
Delta R.T. 0.006 min

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 :

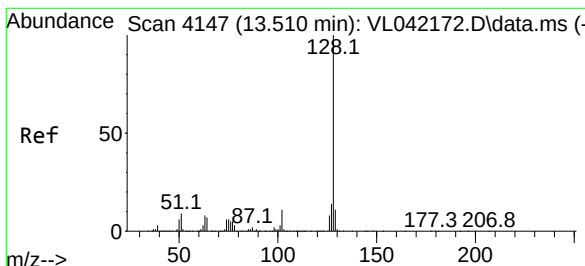
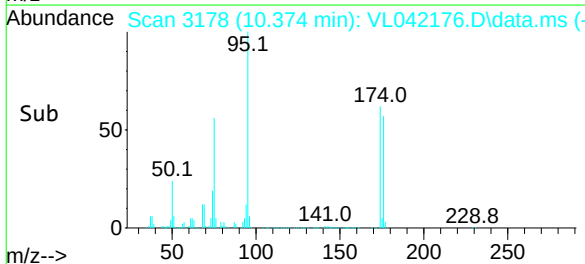
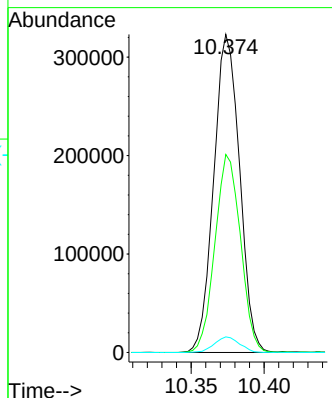
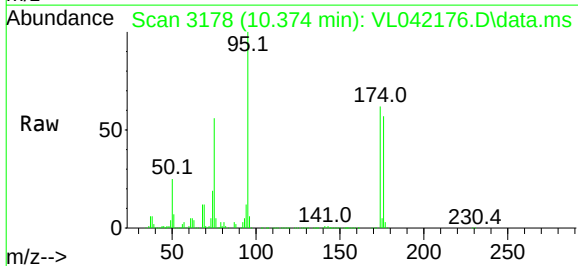
VSTDIC0.1

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

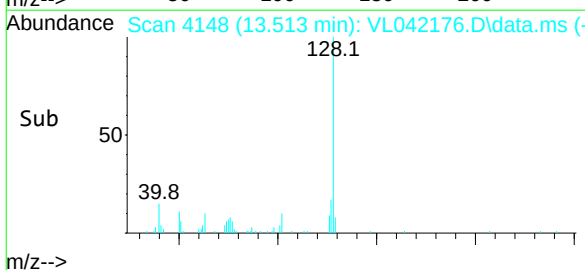
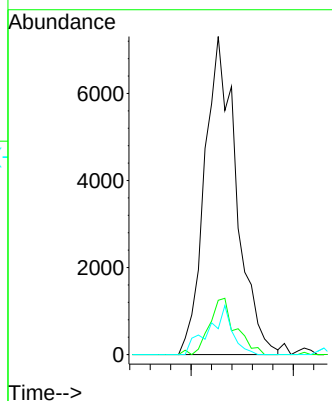
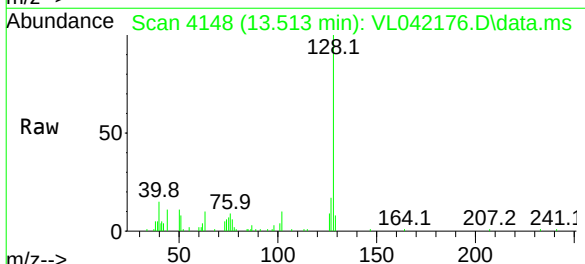
RT: 13.513 min Scan# 4148

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

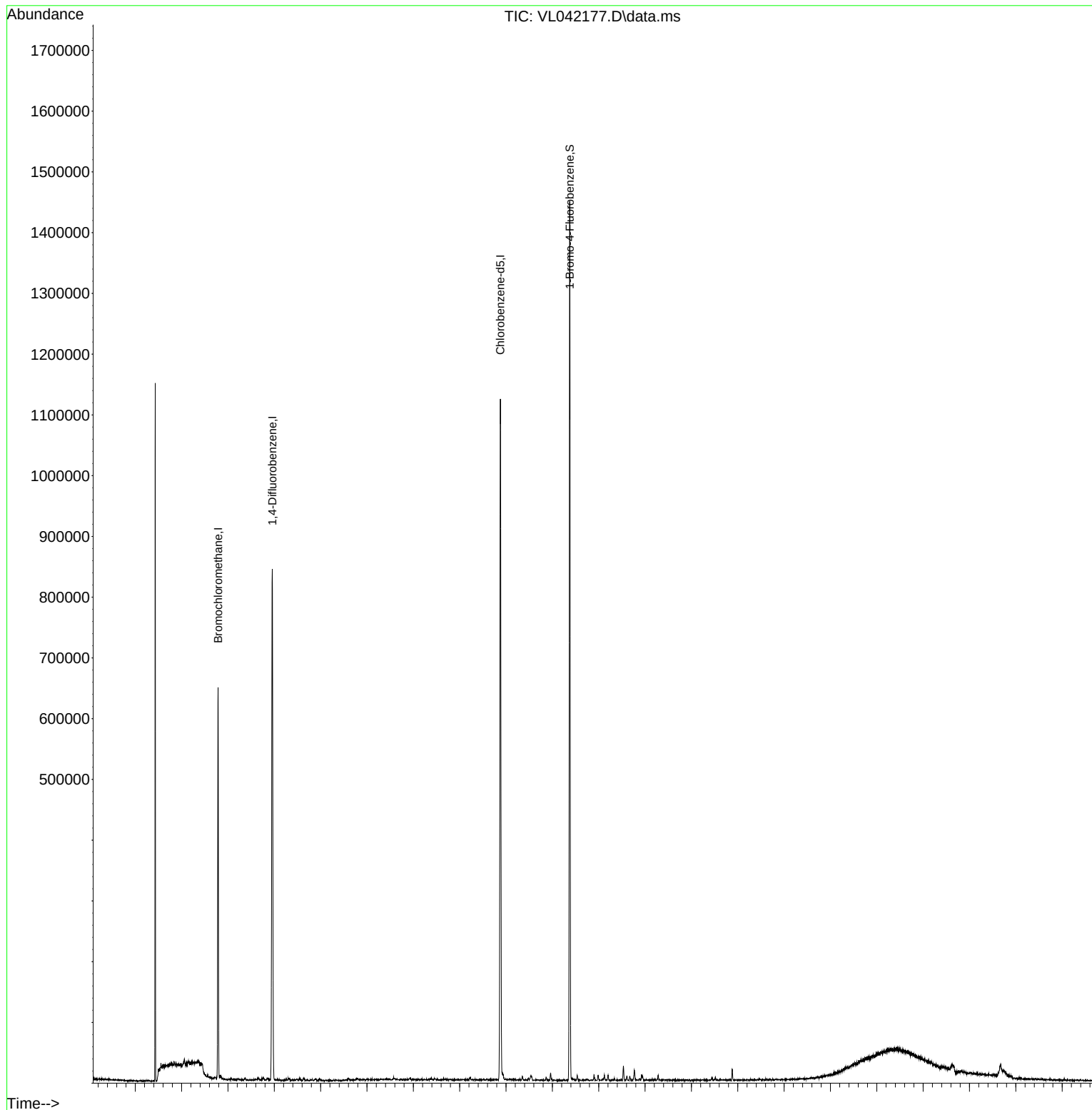
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Data File : VL042177.D
Acq On : 27 Mar 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

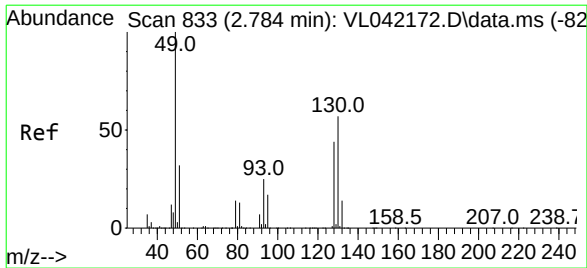
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

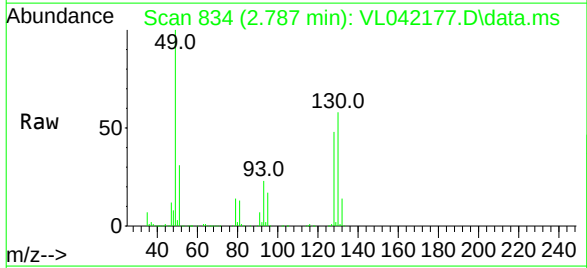
Quant Time: Mar 28 01:36:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration





#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

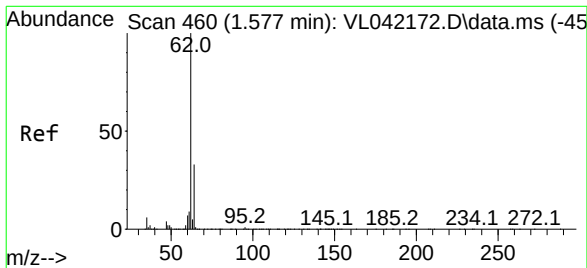
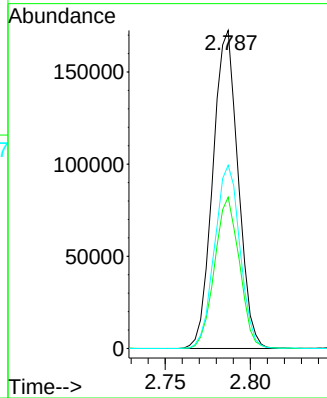
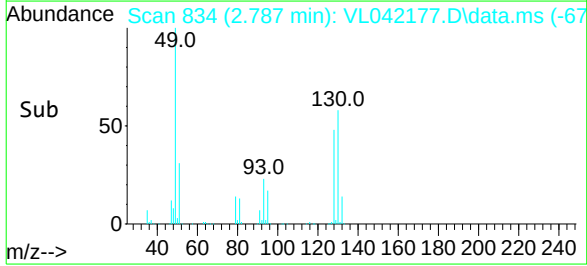
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



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

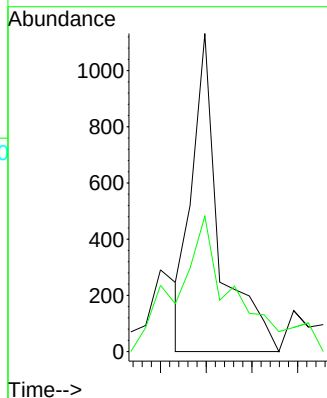
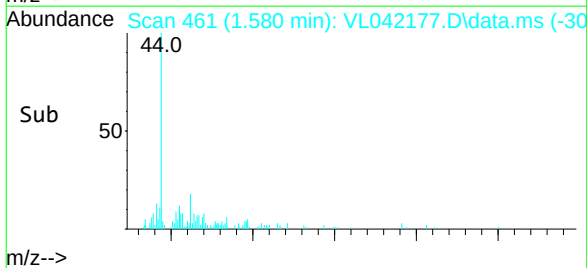
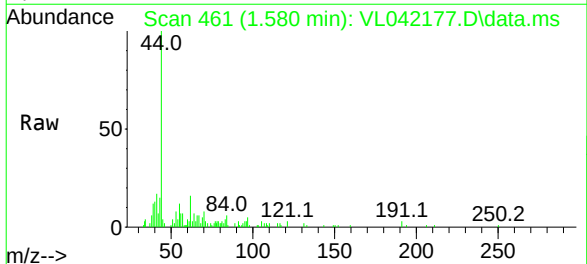
Manual Integrations
APPROVED

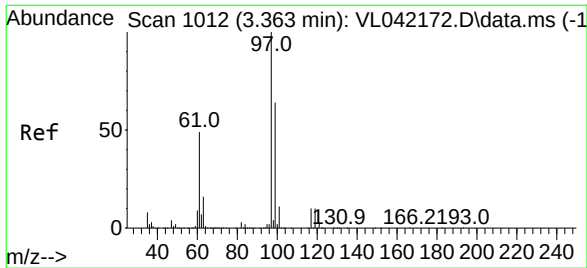
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

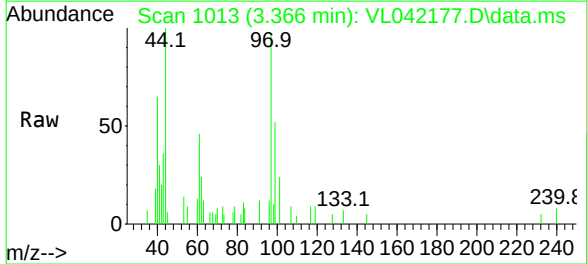
Tgt Ion: 62 Resp: 471
Ion Ratio Lower Upper
62 100
64 42.6 26.6 40.0#





#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

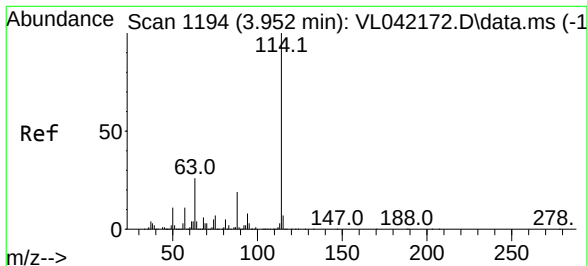
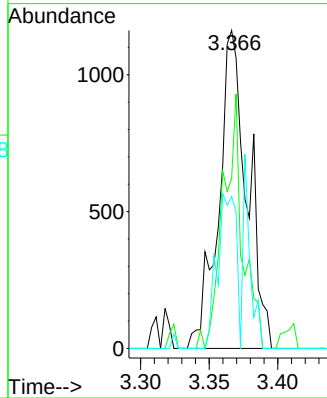
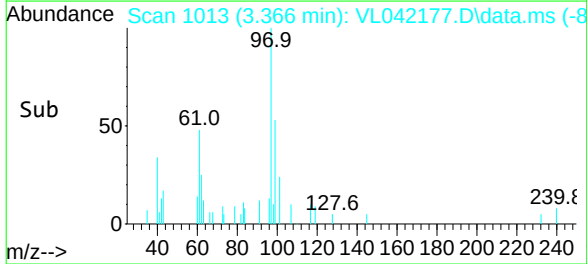
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03



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#

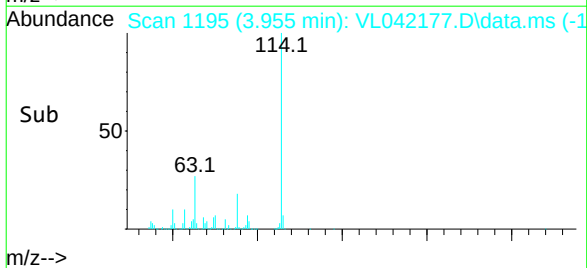
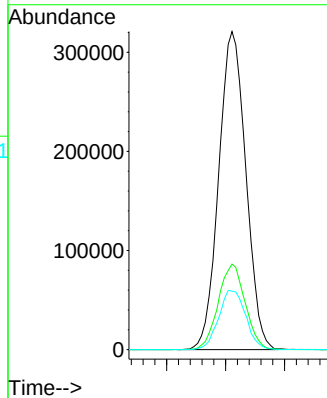
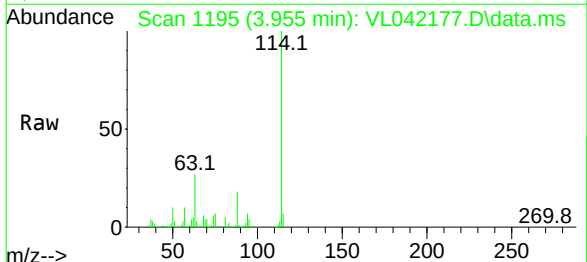
Manual Integrations
APPROVED

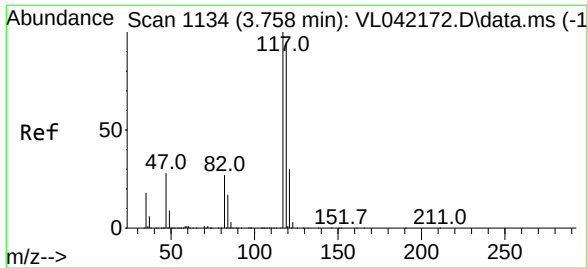
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

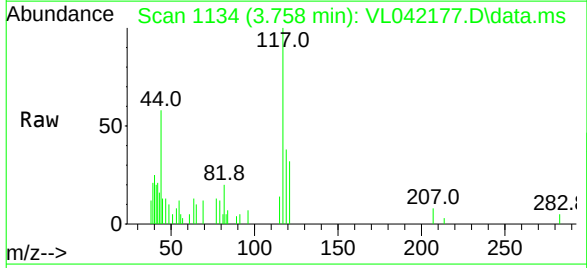
Tgt Ion:114 Resp: 512915
Ion Ratio Lower Upper
114 100
63 26.6 20.7 31.1
88 18.6 15.0 22.4





#35
Carbon Tetrachloride
Concen: 0.042 ppbv m
RT: 3.758 min Scan# 1134
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

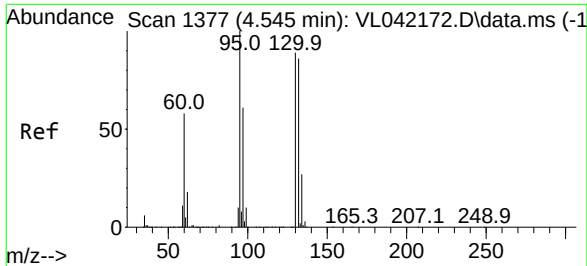
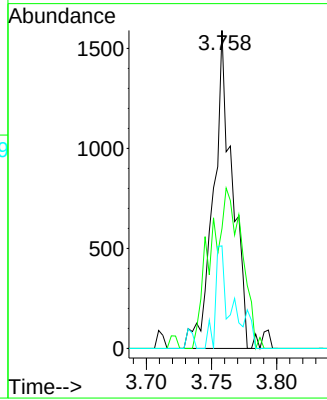
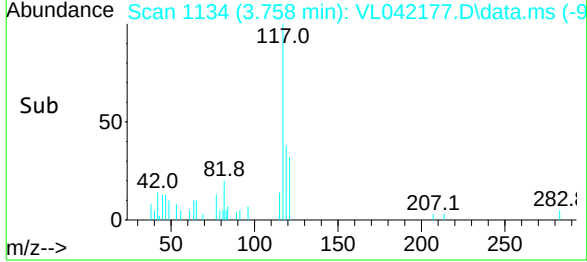
Instrument : MSVOA_L
ClientSampleId : VSTDICC0.03



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

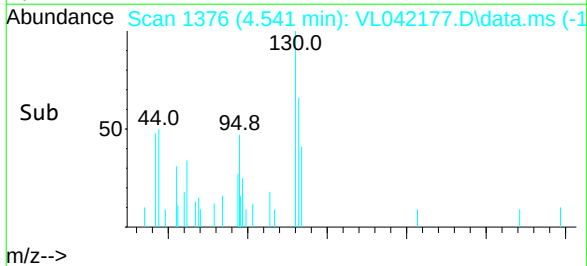
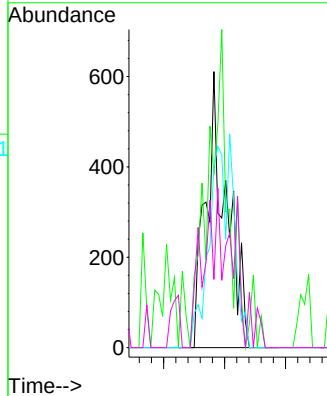
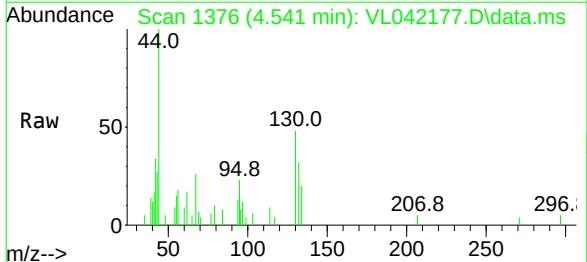
Manual Integrations
APPROVED

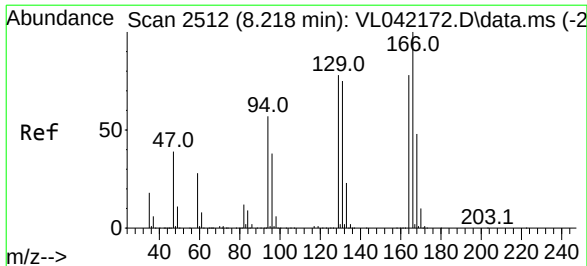
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

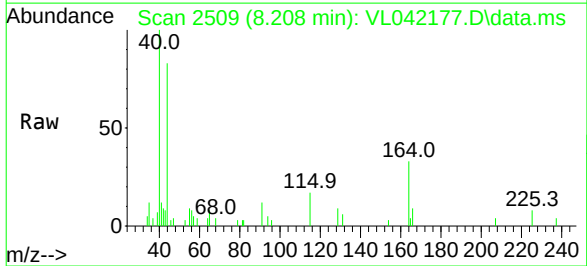
Tgt Ion:130 Resp: 712
Ion Ratio Lower Upper
130 100
95 47.0 89.8 134.8#
132 65.6 77.4 116.2#
97 24.7 55.1 82.7#





#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

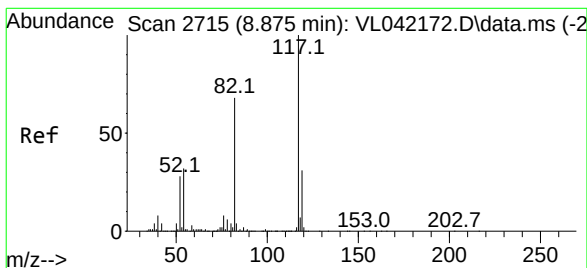
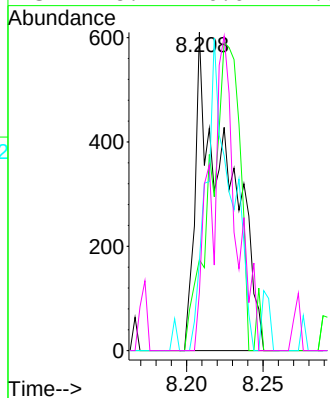
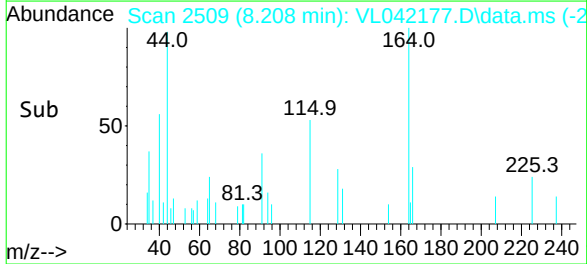
Instrument : MSVOA_L
ClientSampleId : VSTDIC0.03



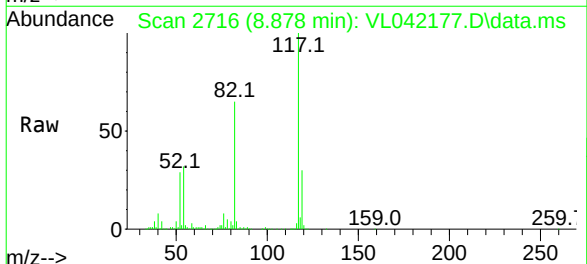
Tgt Ion	Ratio	Lower	Upper
164	100		
166	28.5	102.5	153.7#
129	27.7	79.8	119.8#
131	18.2	76.6	114.8#

Manual Integrations
APPROVED

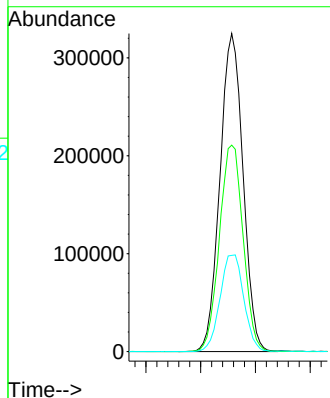
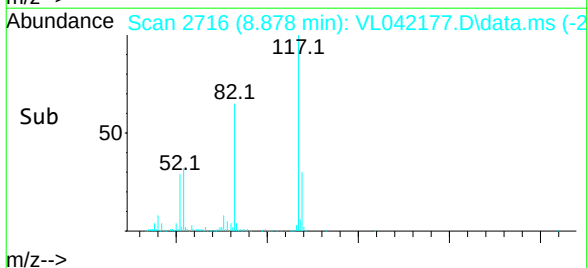
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

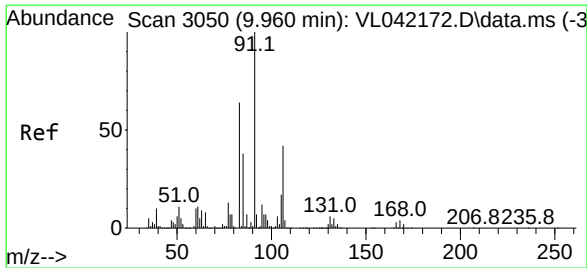


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03



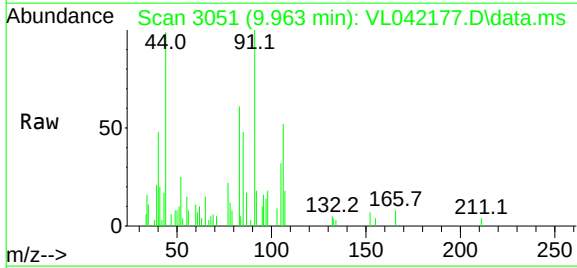
Tgt Ion	Ratio	Lower	Upper
117	100		
82	66.7	55.8	83.6
119	31.5	25.5	38.3





#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

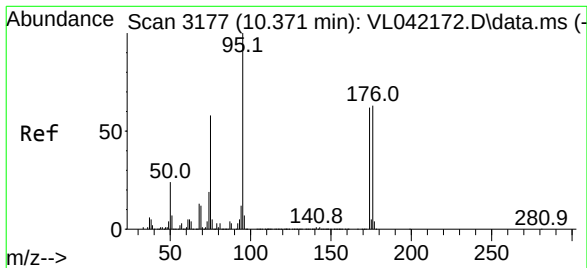
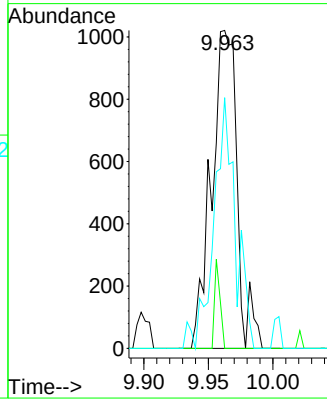
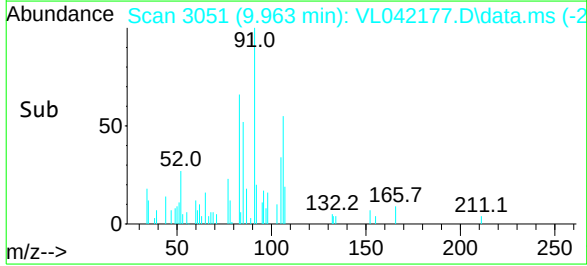
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03



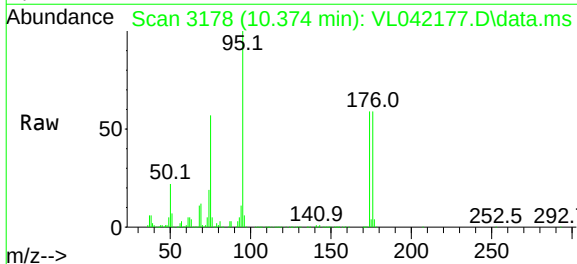
Tgt Ion	Ratio	Lower	Upper
83	100		
131	6.0	4.8	14.4
85	67.2	32.5	97.5

Manual Integrations
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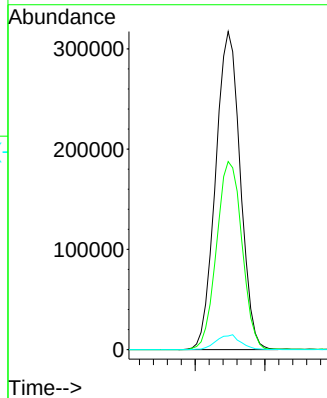
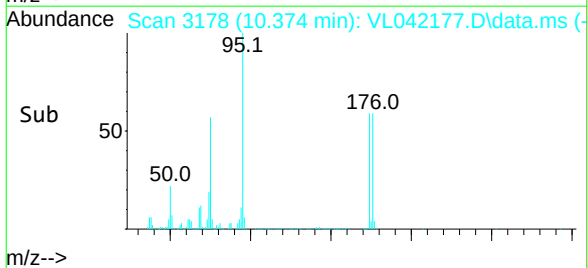
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.983 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

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

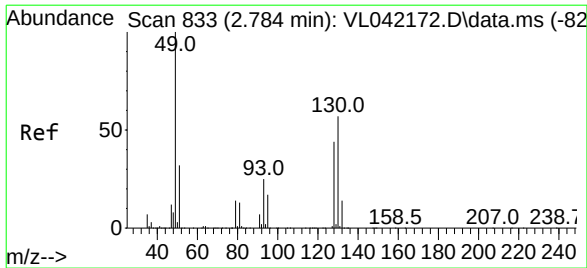
QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

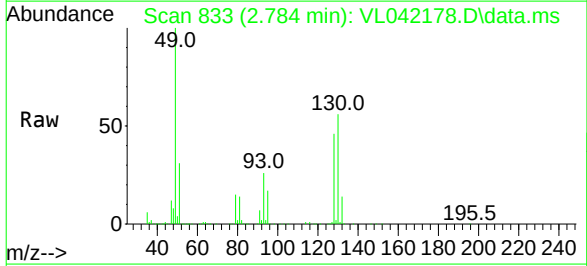
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	400813	14.542	ppbv	98
47) 1,1,2-Trichloroethane	6.577	97	273137	14.331	ppbv	98
48) Dibromochloromethane	7.383	129	482431	14.936	ppbv	100
49) Bromoform	9.480	173	427143	14.730	ppbv	99
50) 4-Methyl-2-Pentanone	5.745	43	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



#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

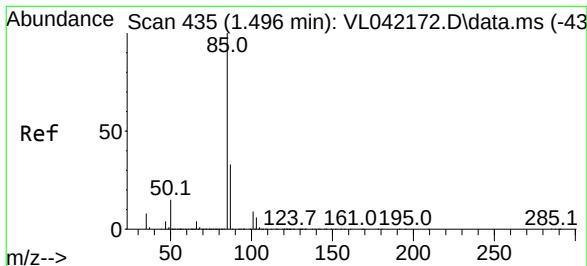
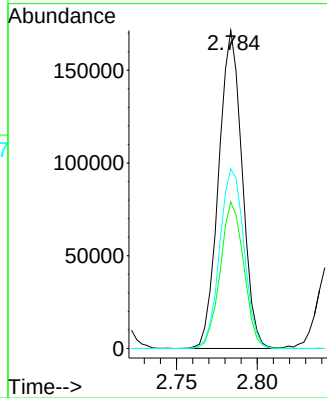
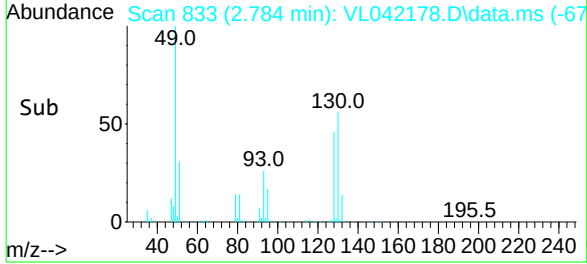
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



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

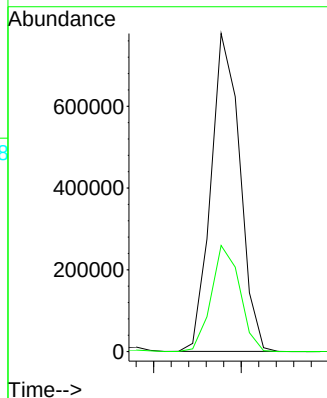
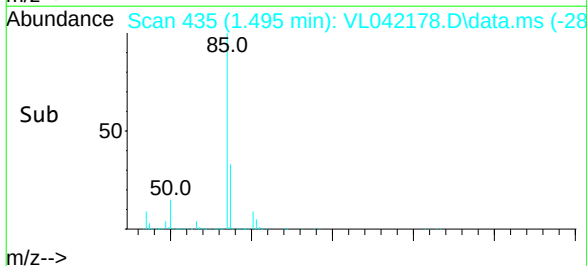
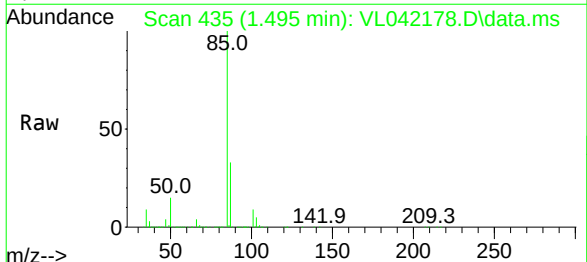
Manual Integrations
APPROVED

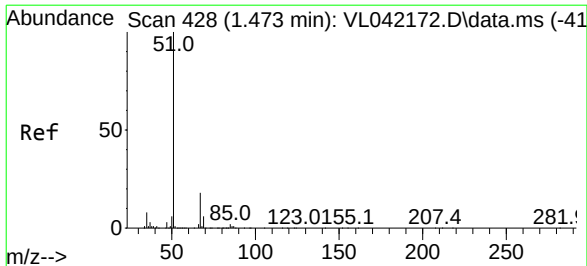
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

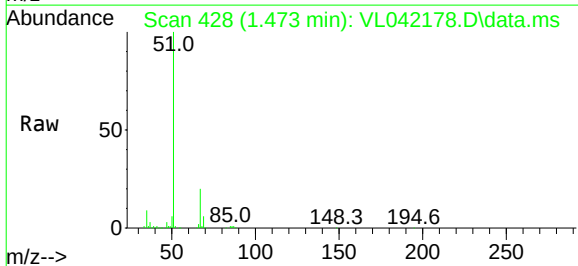
Tgt Ion: 85 Resp: 358962
Ion Ratio Lower Upper
85 100
87 33.4 26.1 39.1





#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

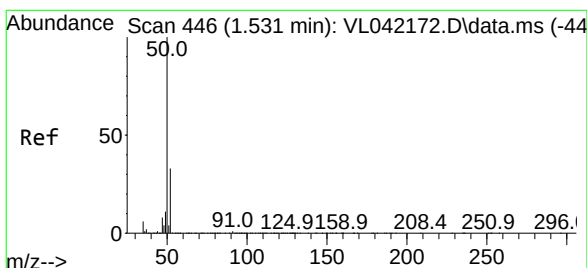
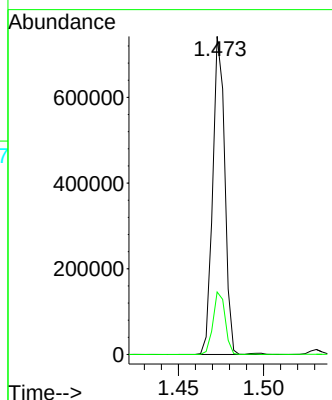
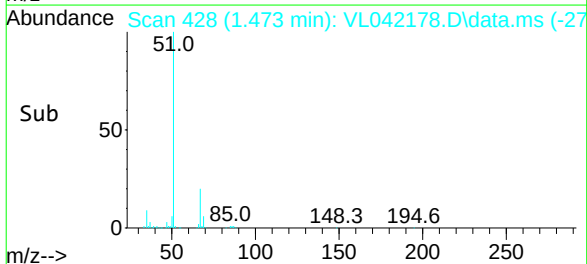
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



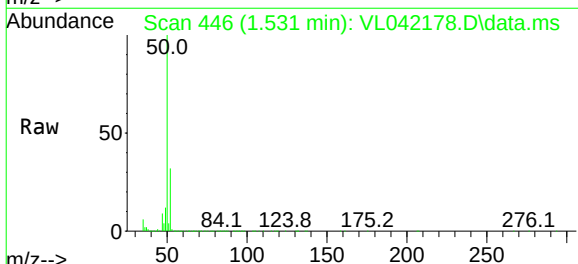
Tgt Ion: 51 Resp: 366164
Ion Ratio Lower Upper
51 100
67 19.8 15.0 22.6

Manual Integrations
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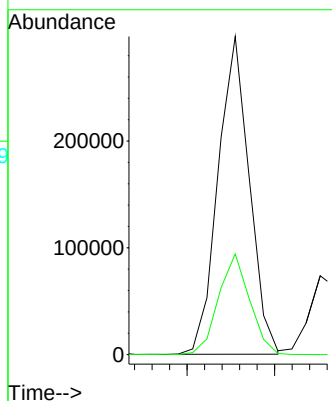
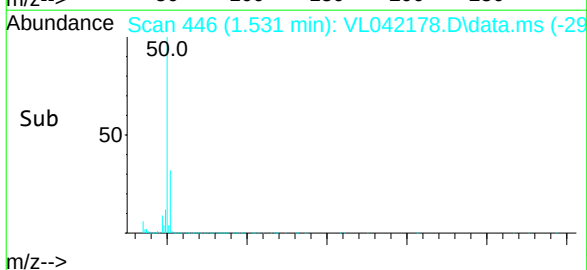
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

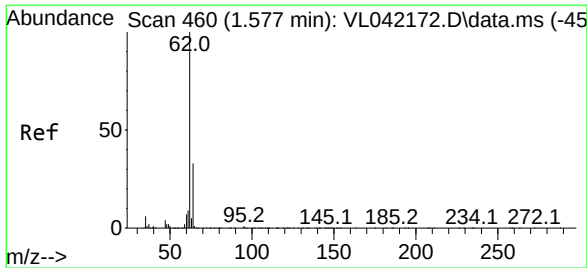


#4
Chloromethane
Concen: 14.160 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



Tgt Ion: 50 Resp: 148133
Ion Ratio Lower Upper
50 100
52 31.6 26.1 39.1





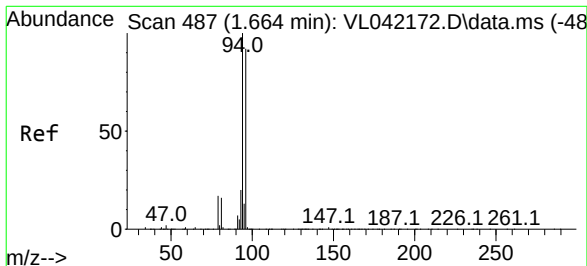
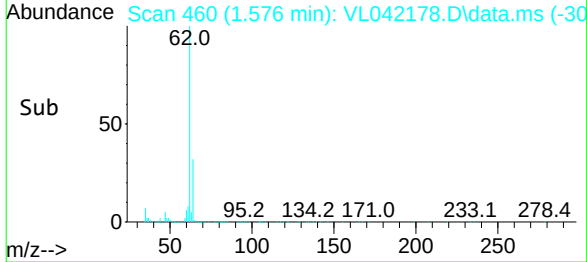
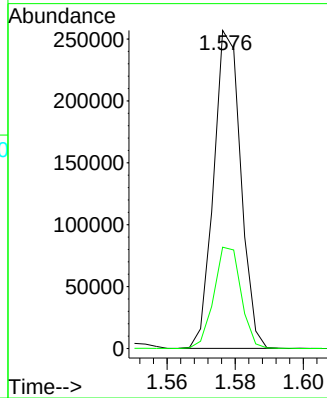
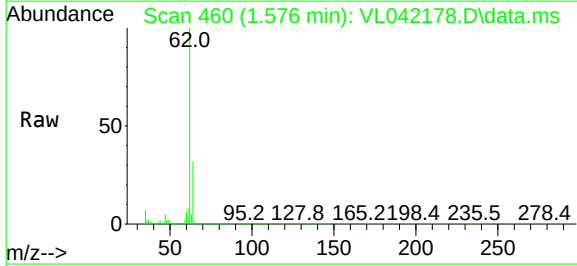
#5
 Vinyl Chloride
 Concen: 13.304 ppbv
 RT: 1.576 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Tgt Ion: 62 Resp: 141938
 Ion Ratio Lower Upper
 62 100
 64 31.9 26.6 40.0

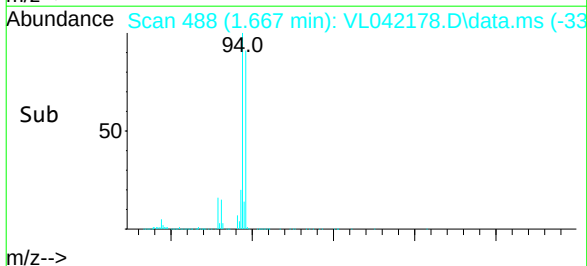
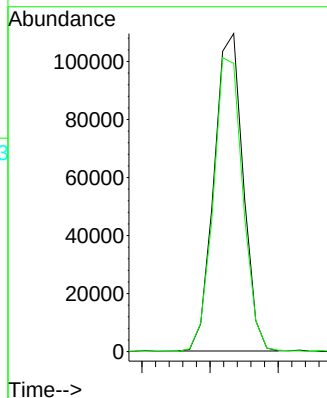
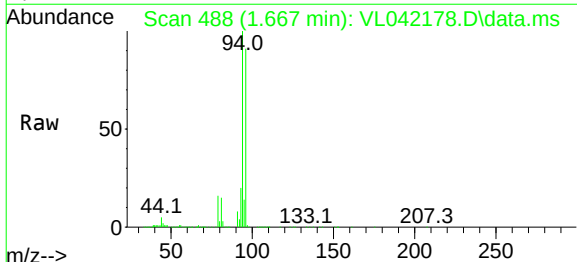
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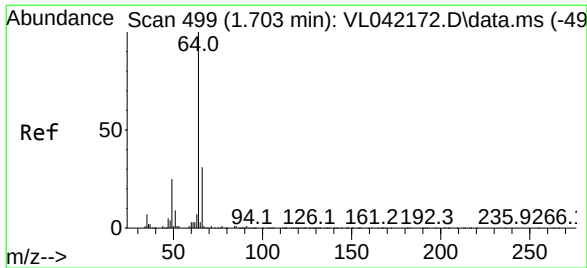
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#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





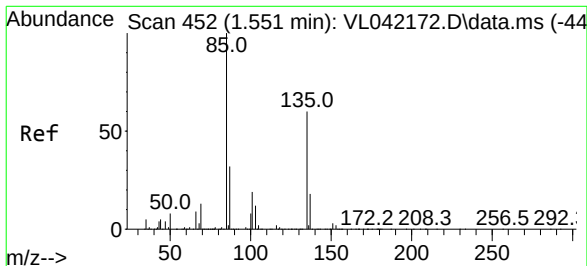
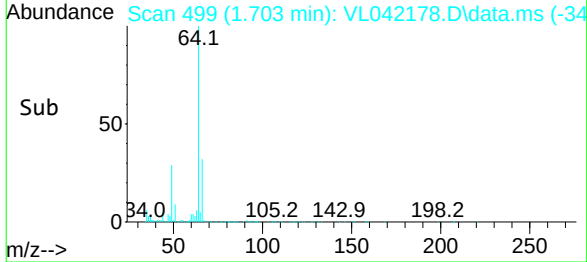
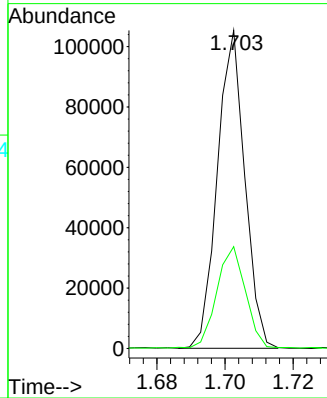
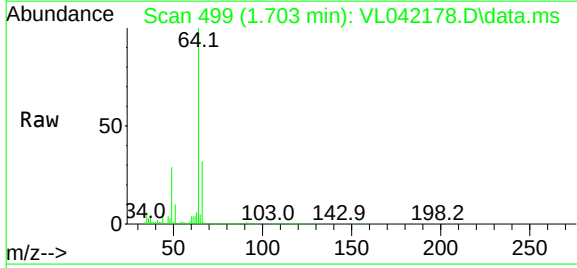
#7
Chloroethane
Concen: 14.007 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 64 Resp: 58820
Ion Ratio Lower Upper
64 100
66 32.0 25.2 37.8

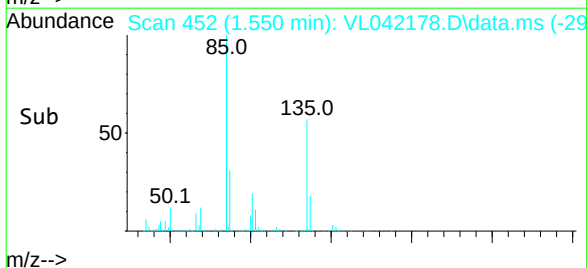
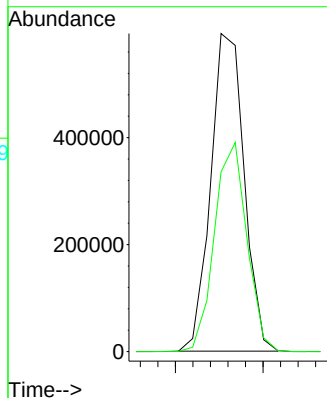
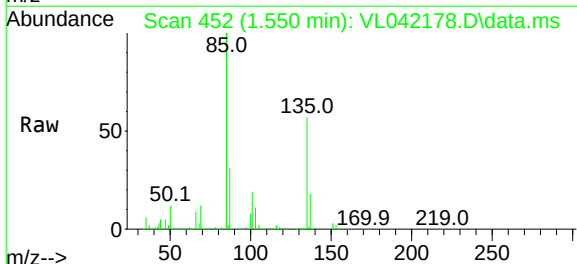
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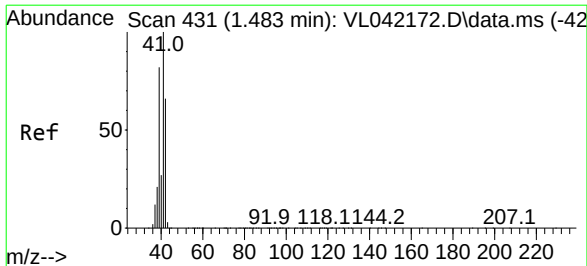
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

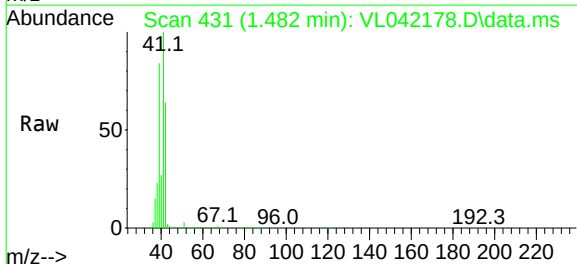
Tgt Ion: 85 Resp: 314834
Ion Ratio Lower Upper
85 100
135 63.8 52.4 78.6





#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

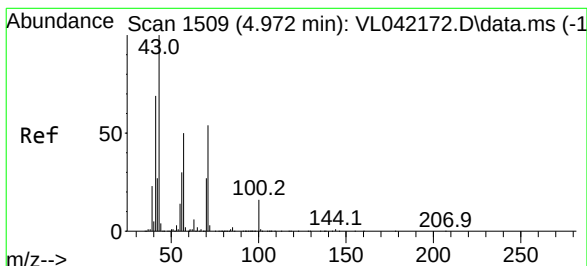
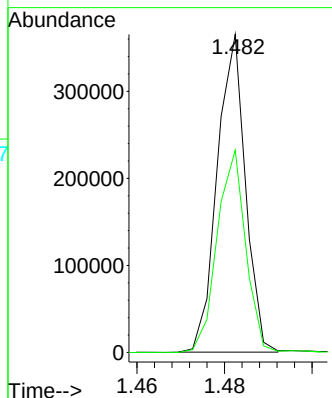
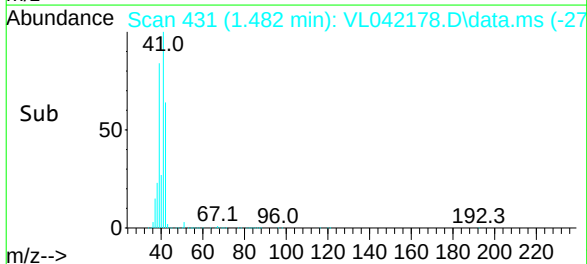
Instrument : MSVOA_L
 ClientSampleId : VSTDIC015



Tgt Ion: 41 Resp: 163799
 Ion Ratio Lower Upper
 41 100
 42 65.3 55.4 83.2

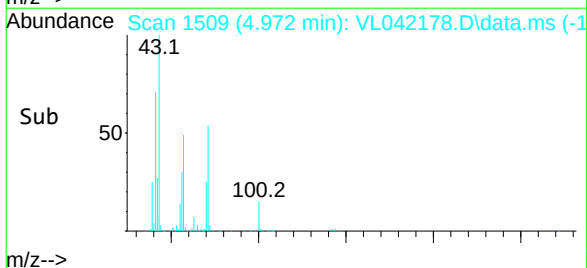
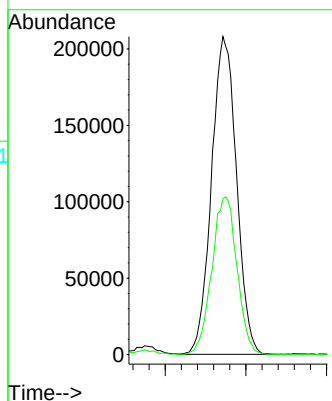
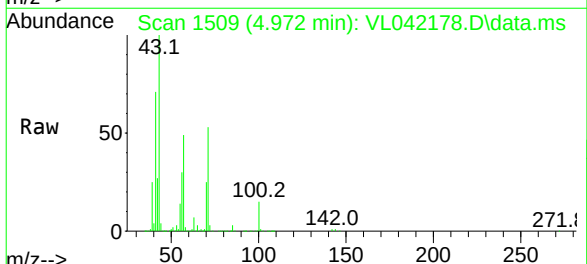
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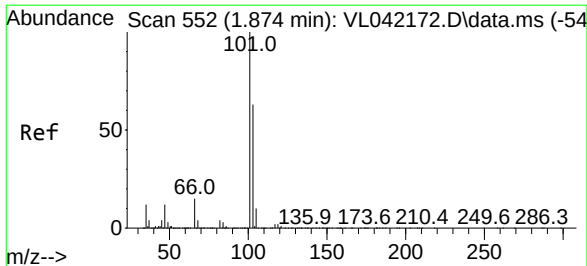
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#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

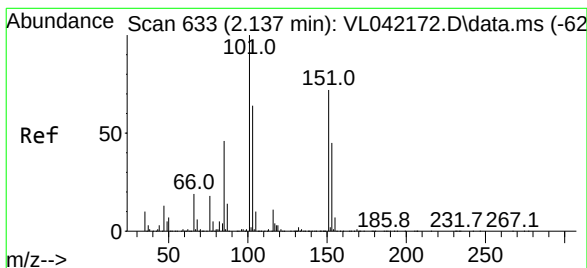
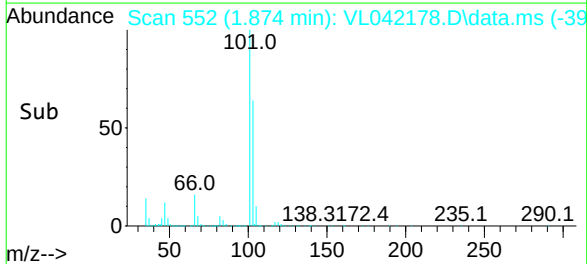
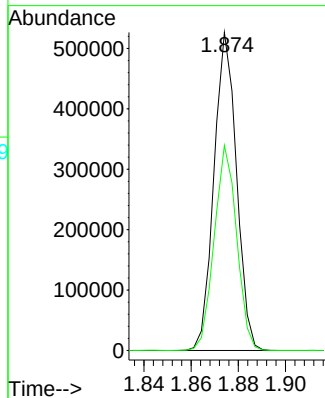
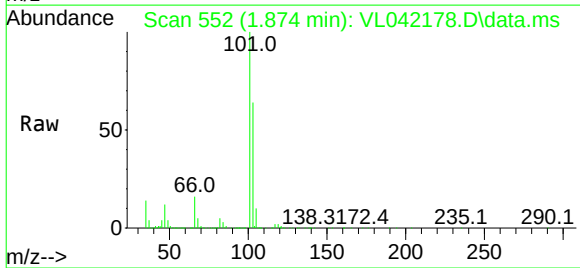
103 64.5 50.2 75.2

Manual Integrations

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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

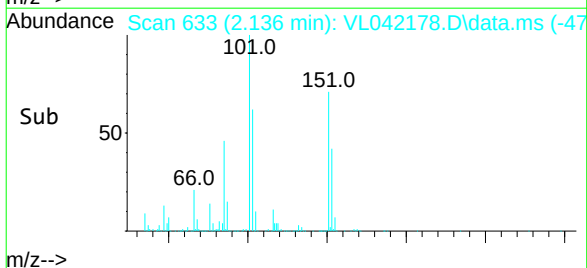
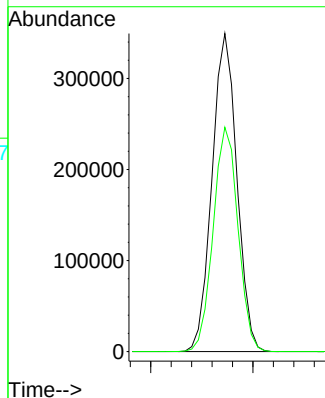
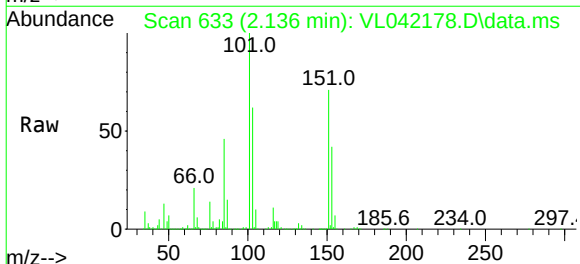
Acq: 27 Mar 2025 11:36

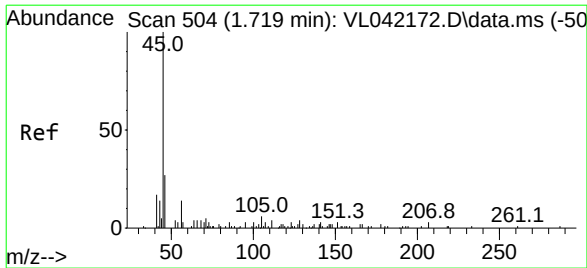
Tgt Ion:101 Resp: 295217

Ion Ratio Lower Upper

101 100

151 70.4 57.1 85.7





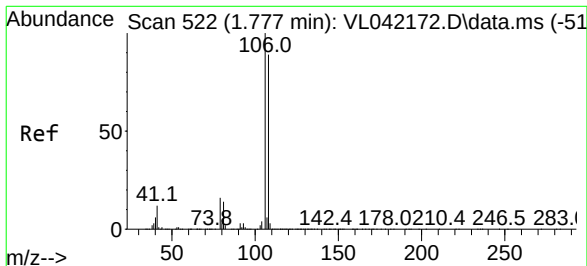
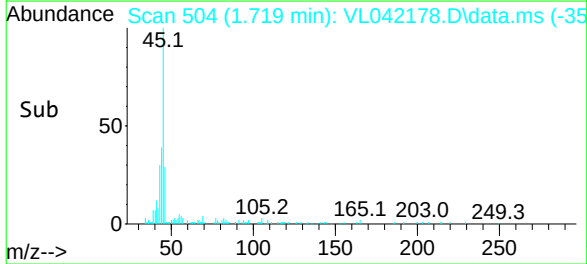
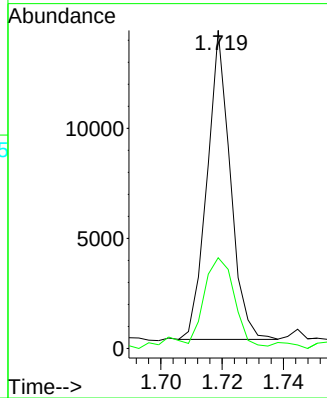
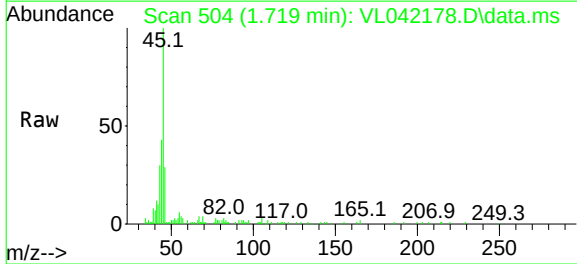
#13
Ethanol
Concen: 8.001 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 45 Resp: 7382
Ion Ratio Lower Upper
45 100
46 44.6 20.2 80.8

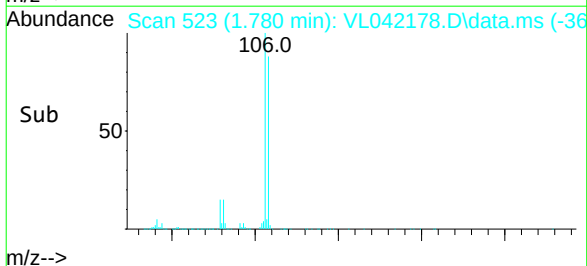
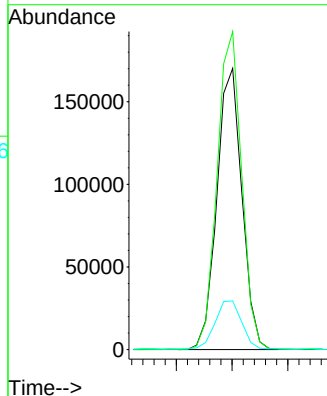
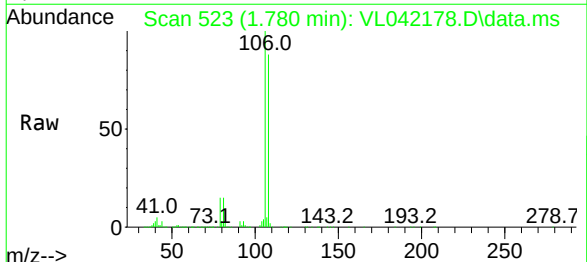
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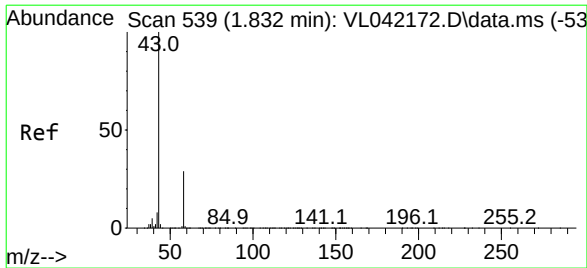
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





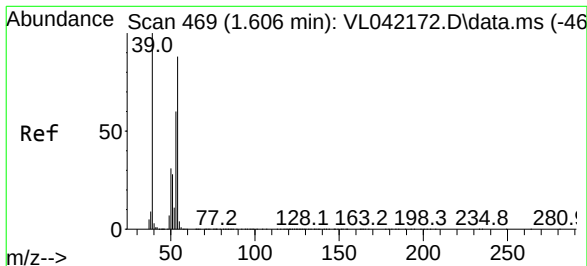
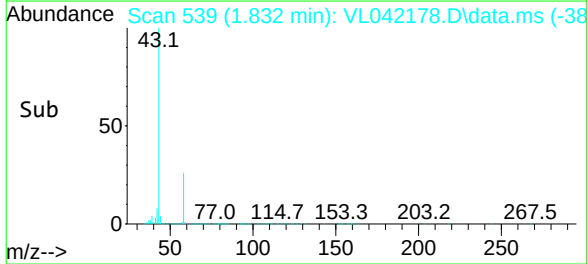
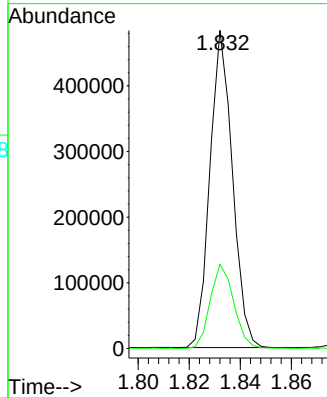
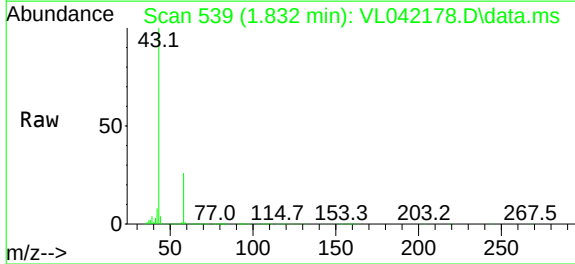
#15
Acetone
Concen: 12.218 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 296254
Ion Ratio Lower Upper
43 100
58 27.7 23.2 34.8

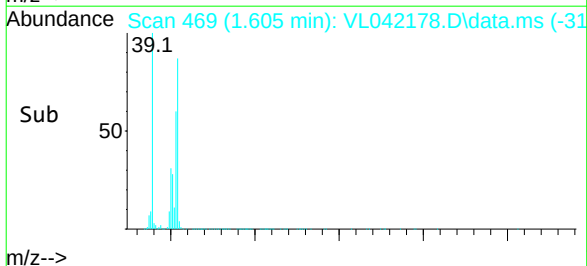
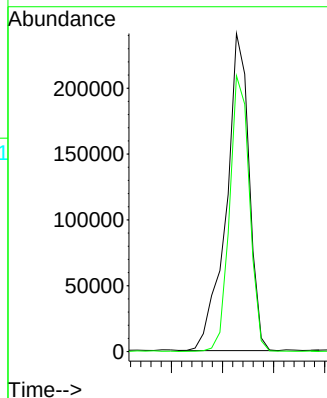
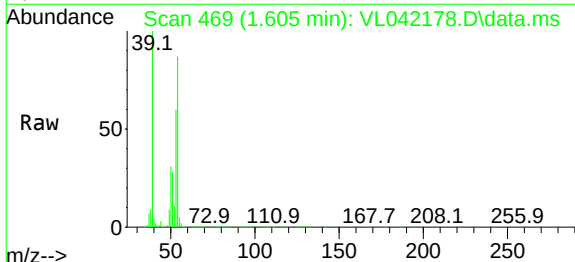
Manual Integrations
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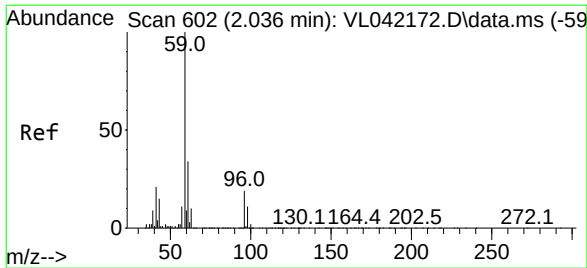
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





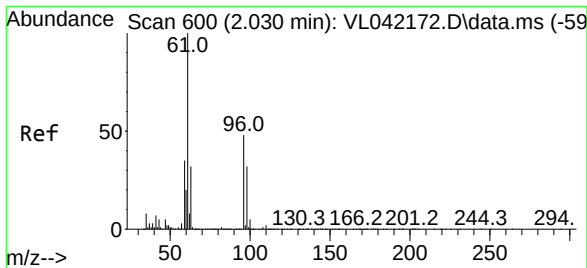
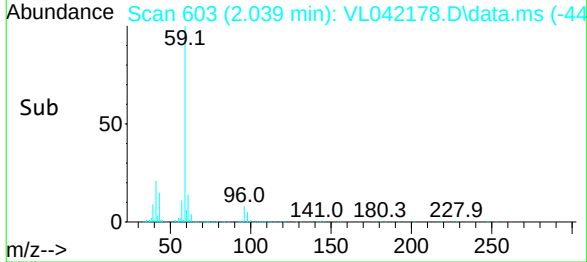
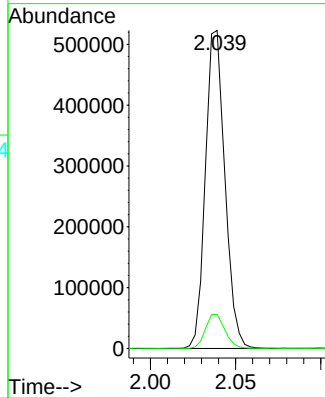
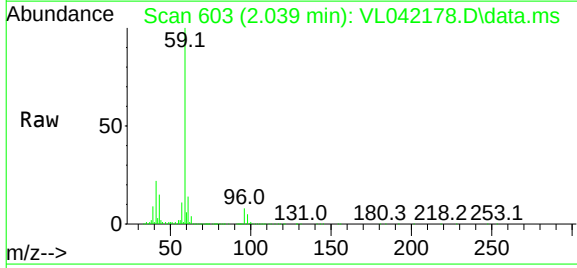
#17
tert-Butyl alcohol
Concen: 13.787 ppbv
RT: 2.039 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 59 Resp: 416362
Ion Ratio Lower Upper
59 100
57 10.8 8.9 13.3

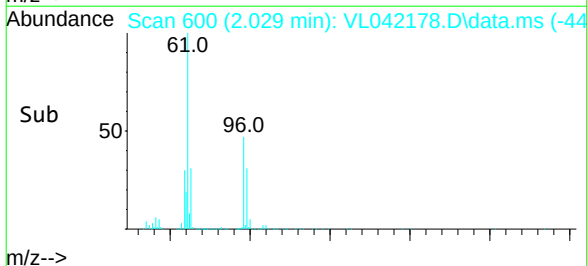
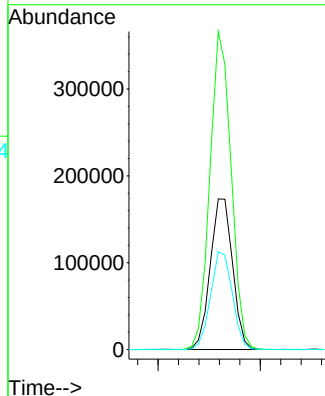
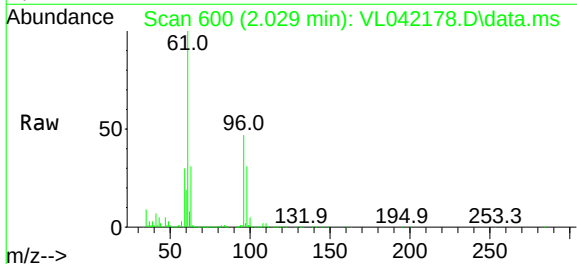
Manual Integrations
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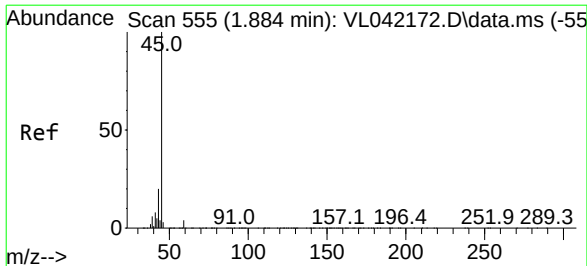
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

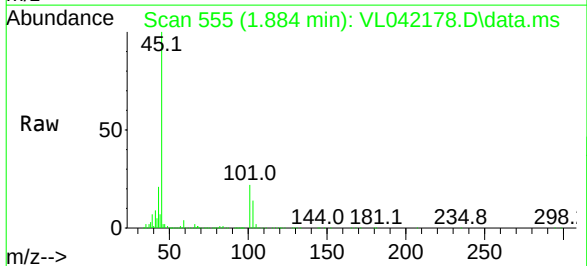
Tgt Ion: 96 Resp: 131720
Ion Ratio Lower Upper
96 100
61 211.1 167.6 251.4
98 64.9 53.5 80.3





#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

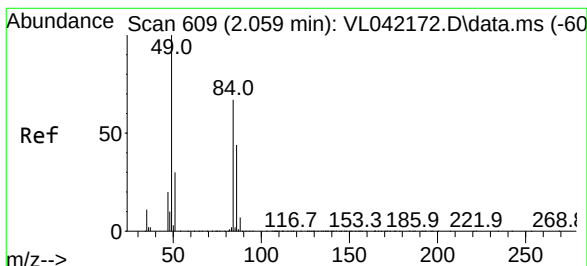
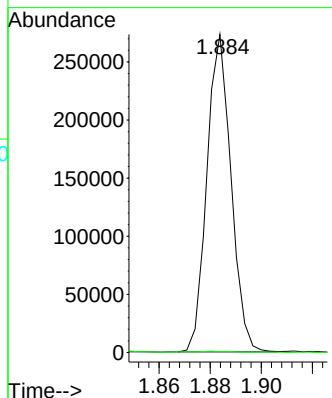
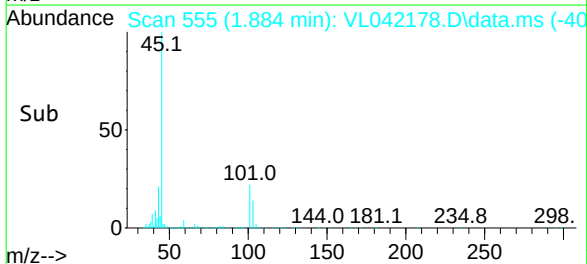
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 45 Resp: 179117
Ion Ratio Lower Upper
45 100
58 46.4 36.9 55.3

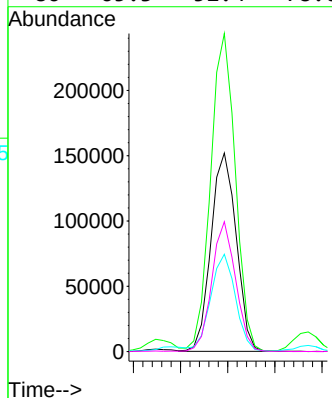
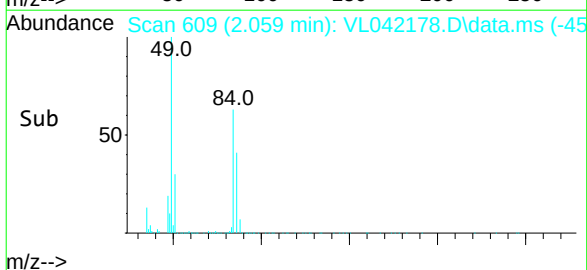
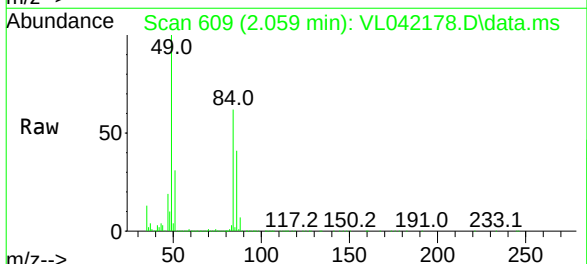
Manual Integrations
APPROVED

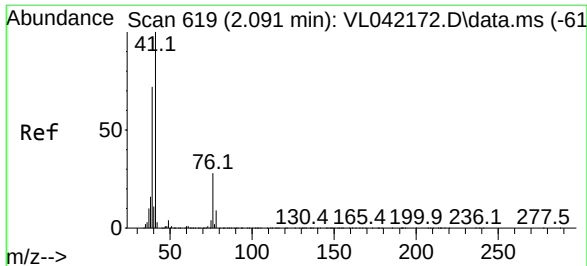
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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# 621

Delta R.T. 0.003 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

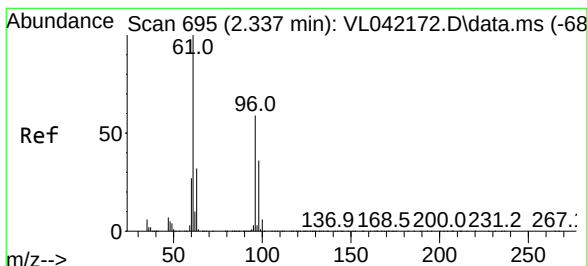
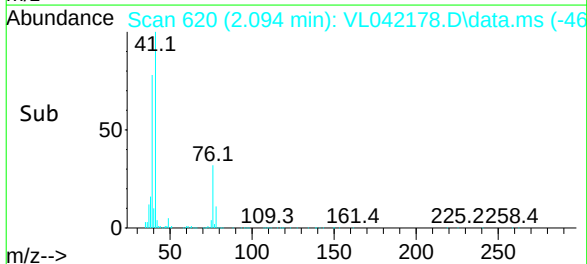
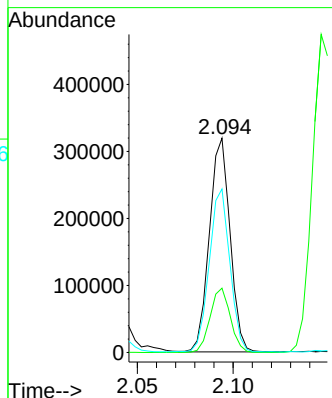
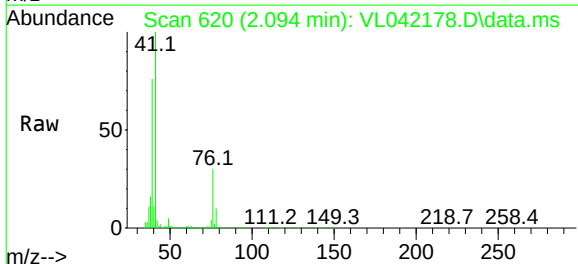
VSTDICC015

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

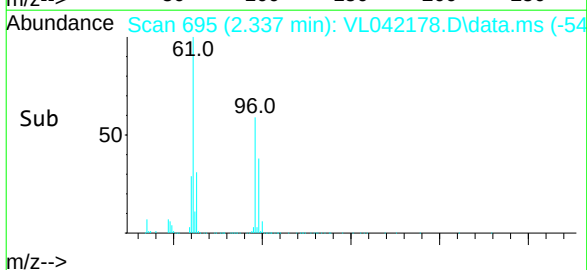
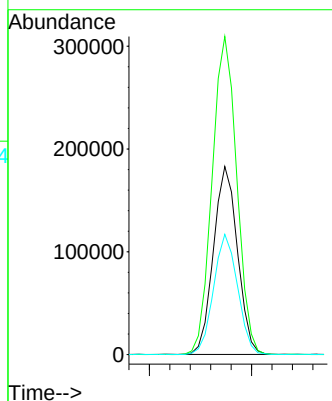
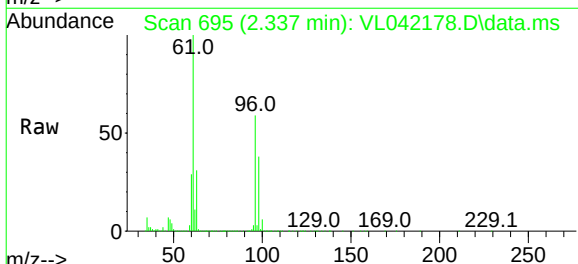
RT: 2.337 min Scan# 695

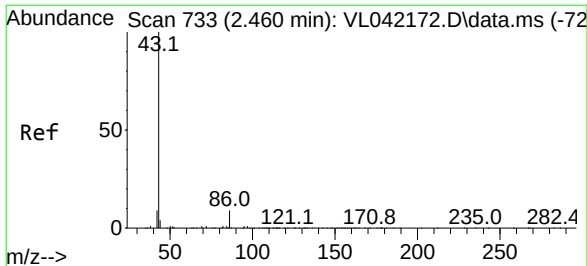
Delta R.T. -0.000 min

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

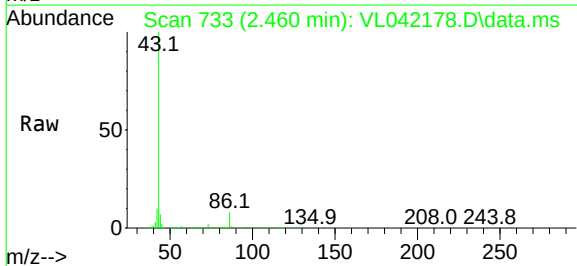
Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

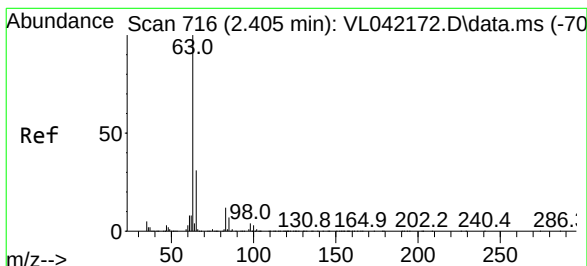
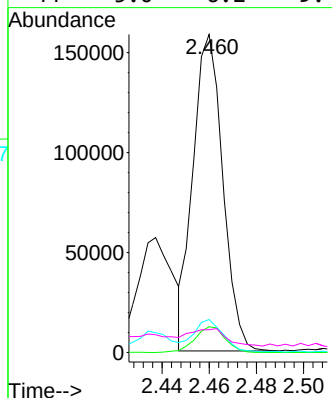
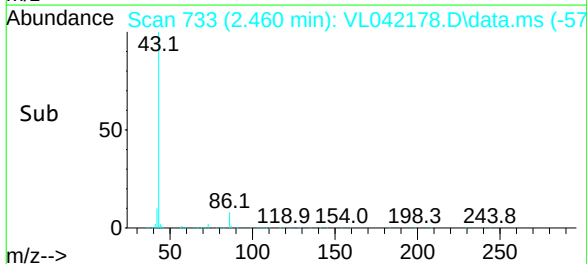


Tgt Ion:	43	Resp:	138419
Ion	Ratio	Lower	Upper
43	100		
86	8.1	5.5	8.3
42	10.1	8.6	13.0
44	5.0	6.2	9.4

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

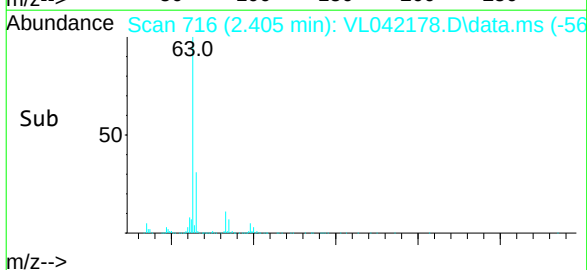
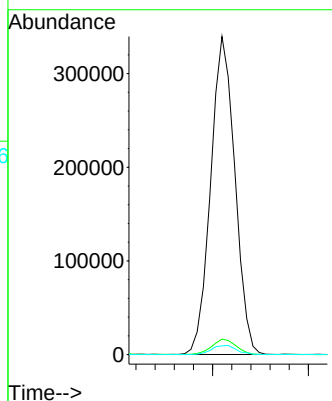
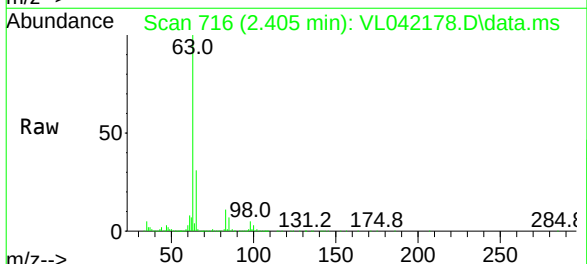
RT: 2.405 min Scan# 716

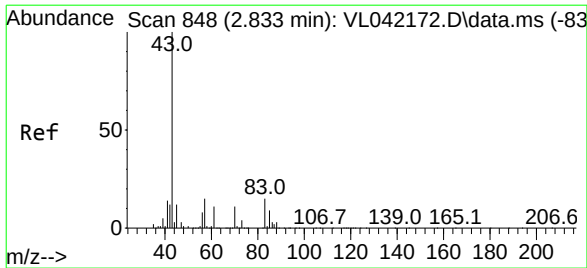
Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

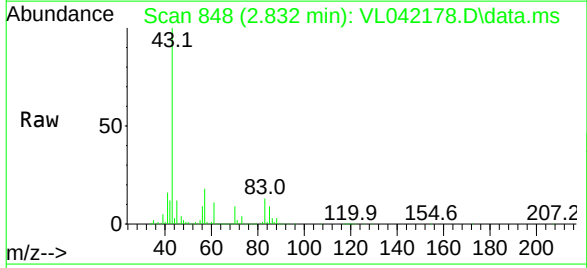
Tgt Ion:	63	Resp:	298760
Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.3	6.8
100	2.7	1.6	4.7





#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

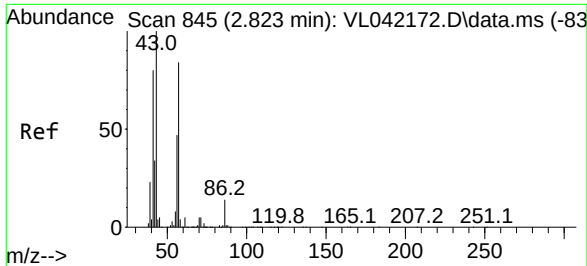
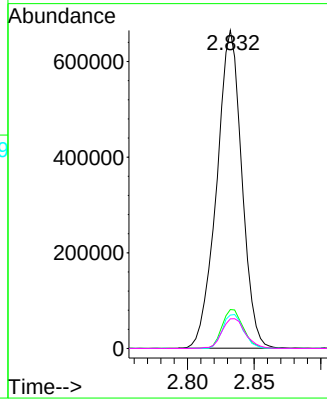
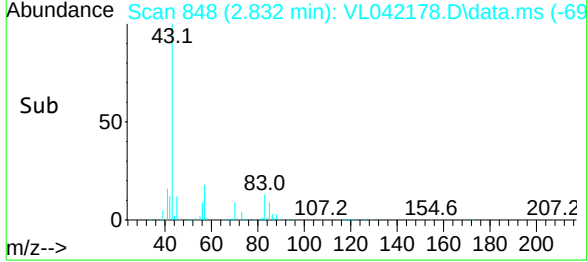
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



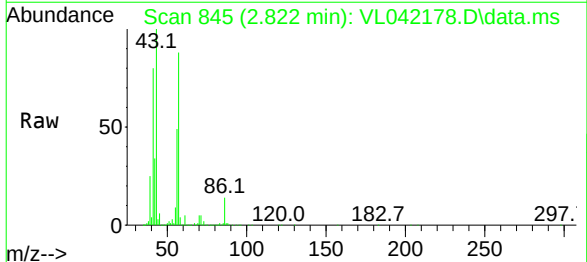
Tgt Ion: 43 Resp: 871882
Ion Ratio Lower Upper
43 100
45 10.3 8.2 12.2
61 9.0 7.3 10.9
70 8.8 7.2 10.8

Manual Integrations
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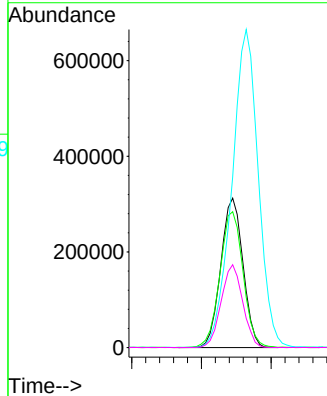
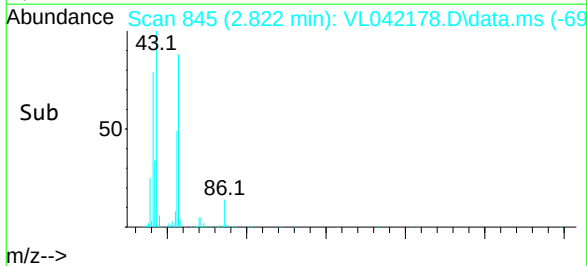
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

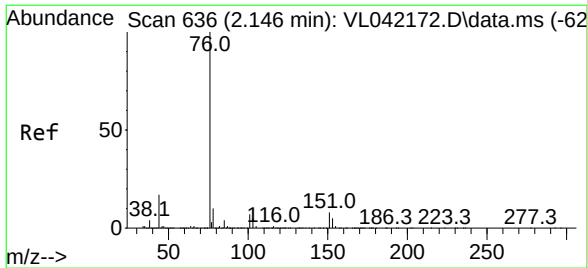


#26
Hexane
Concen: 14.178 ppbv
RT: 2.822 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



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





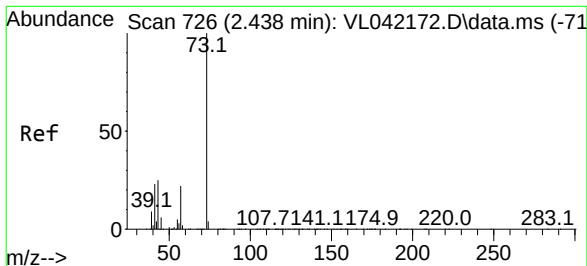
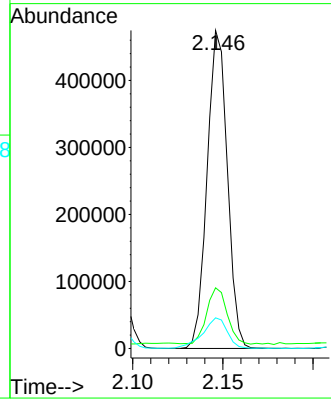
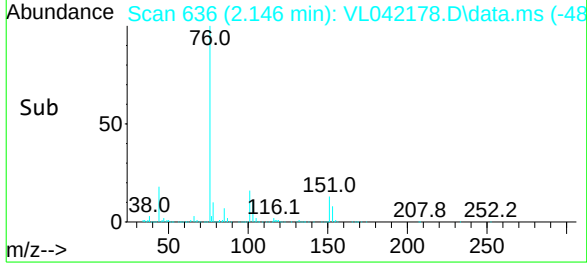
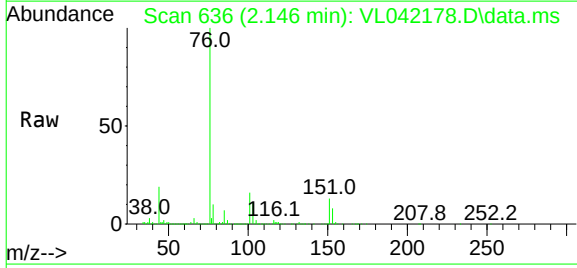
#27
Carbon Disulfide
Concen: 14.196 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

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

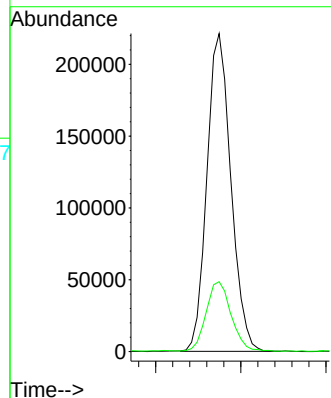
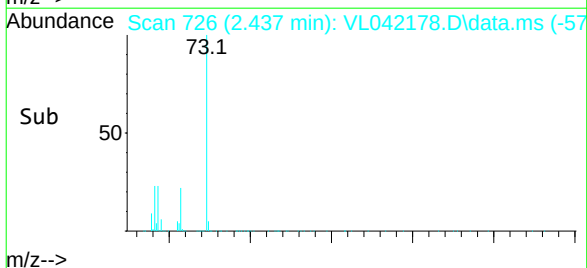
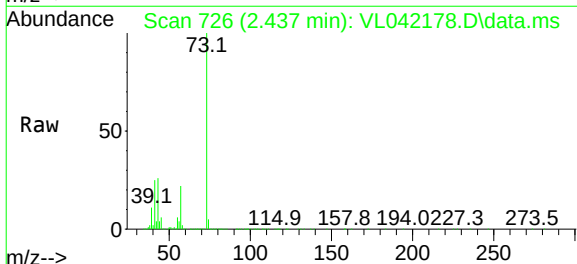
Manual Integrations
APPROVED

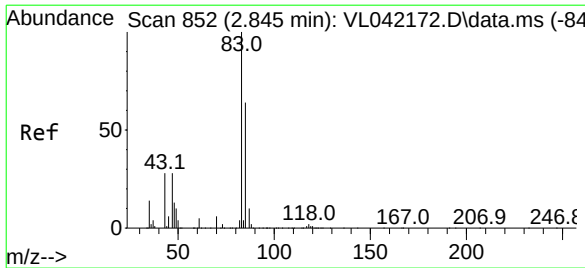
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

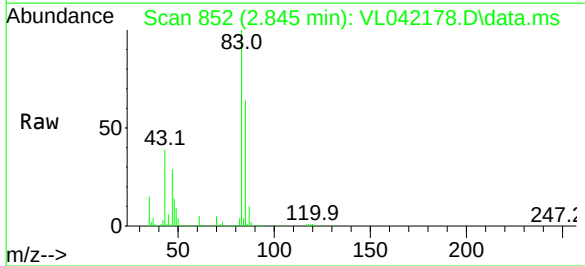
Tgt Ion: 73 Resp: 216463
Ion Ratio Lower Upper
73 100
57 23.2 20.5 30.7





#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

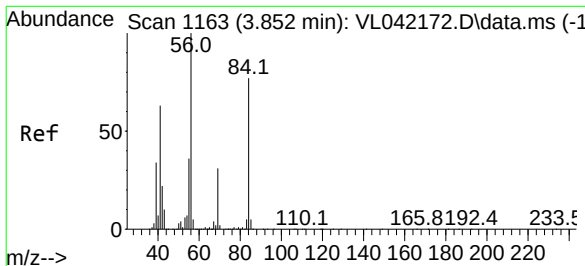
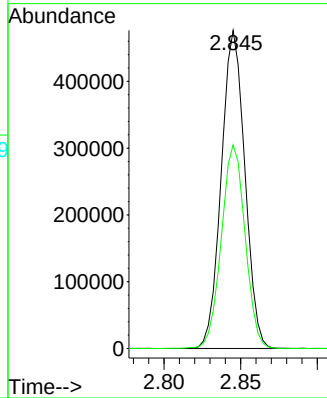
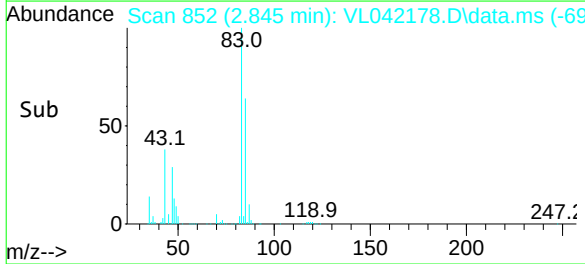
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



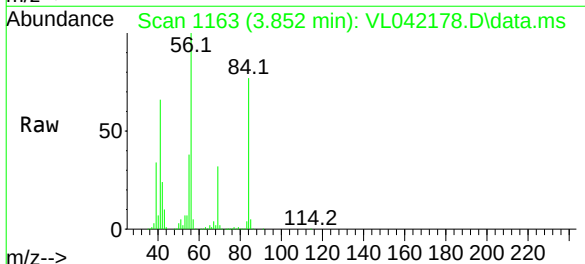
Tgt Ion: 83 Resp: 508614
Ion Ratio Lower Upper
83 100
85 64.0 51.4 77.2

Manual Integrations
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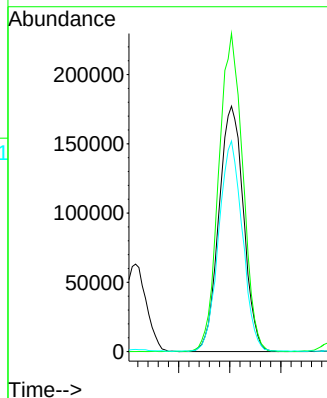
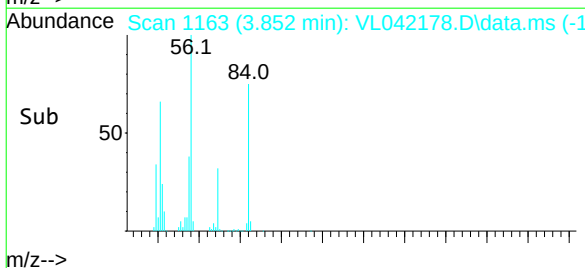
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

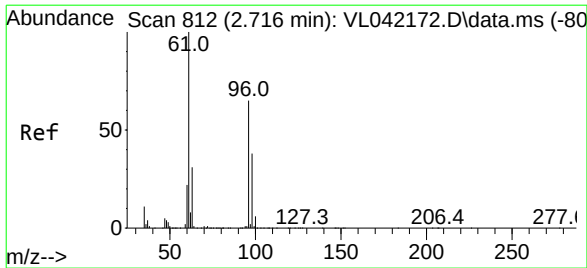


#30
Cyclohexane
Concen: 14.040 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



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





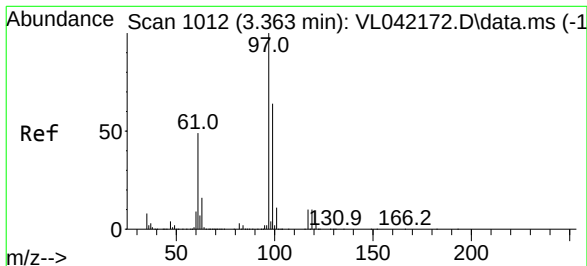
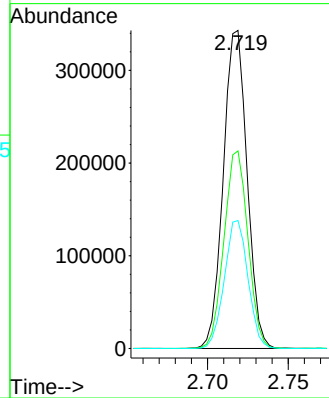
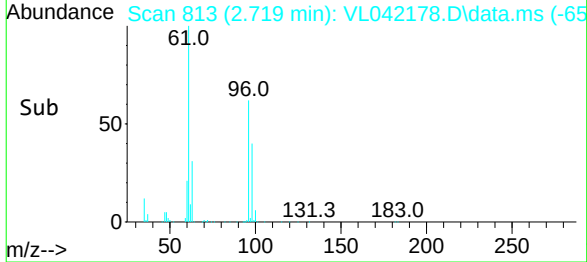
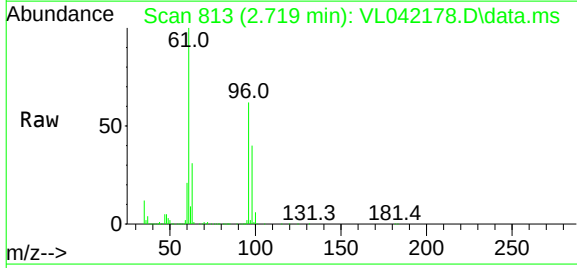
#31
cis-1,2-Dichloroethene
Concen: 14.262 ppbv
RT: 2.719 min Scan# 812
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

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

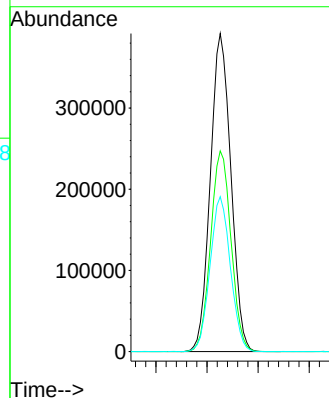
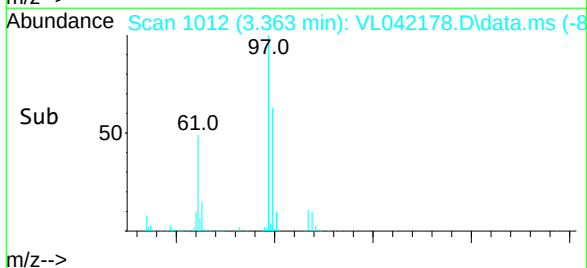
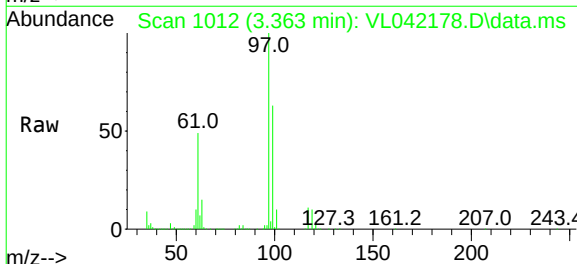
Manual Integrations
APPROVED

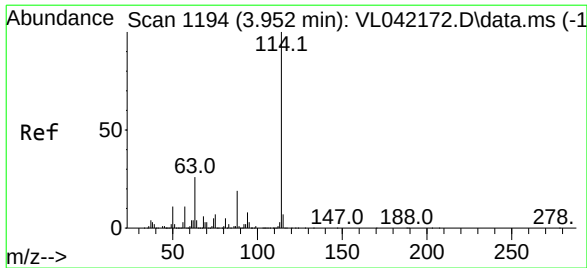
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

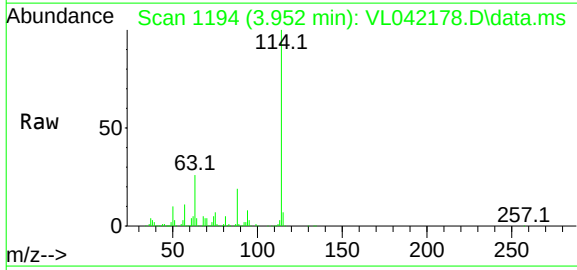
Tgt Ion: 97 Resp: 547329
Ion Ratio Lower Upper
97 100
99 62.8 51.5 77.3
61 48.4 38.7 58.1





#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

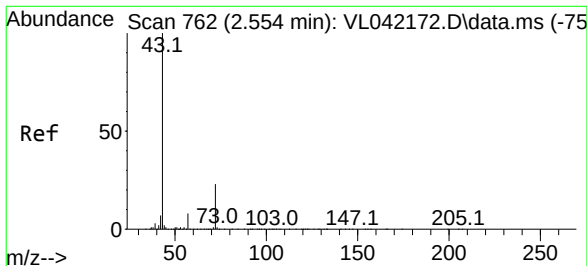
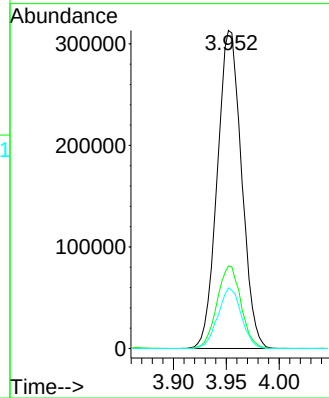
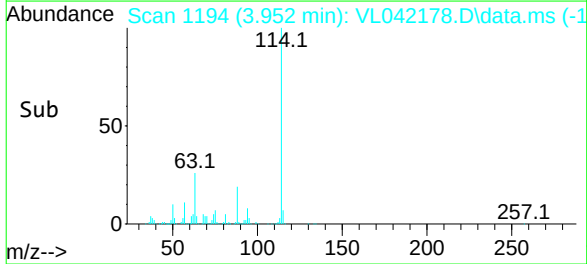
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



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

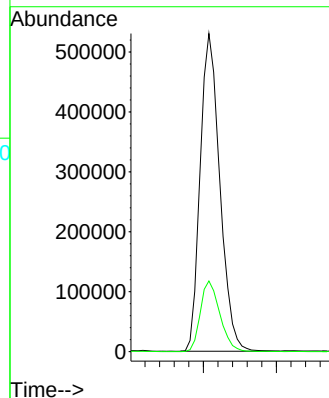
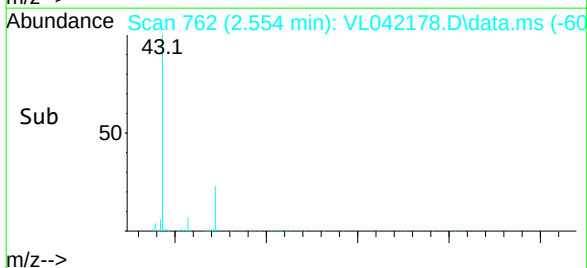
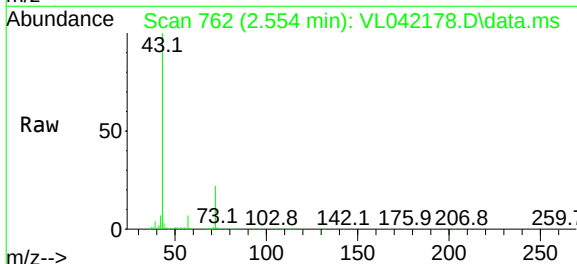
Manual Integrations
APPROVED

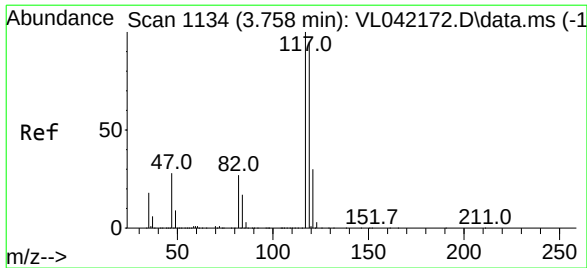
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

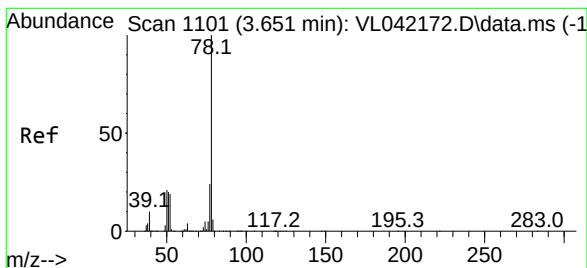
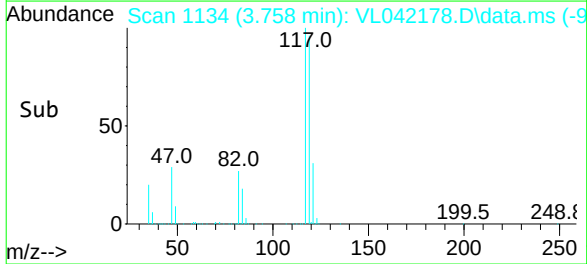
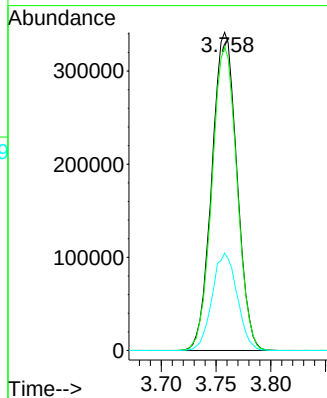
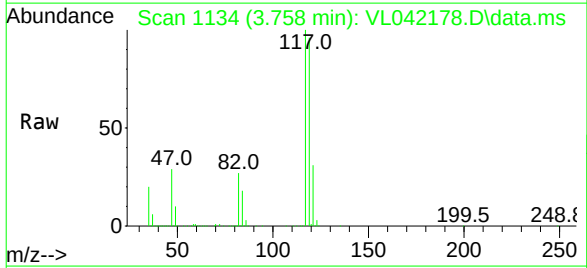
121 30.6 24.2 36.4

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

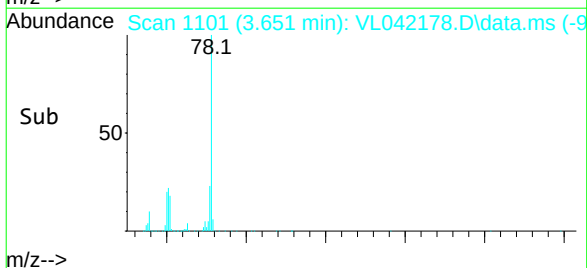
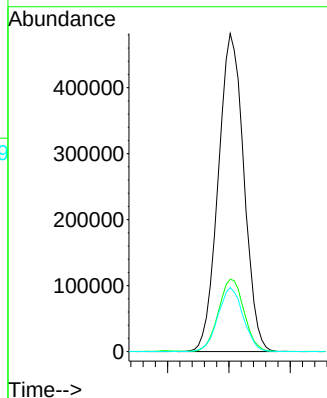
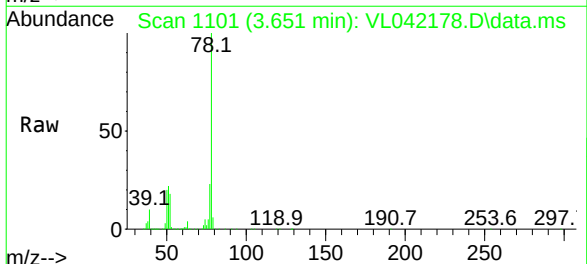
Tgt Ion: 78 Resp: 699549

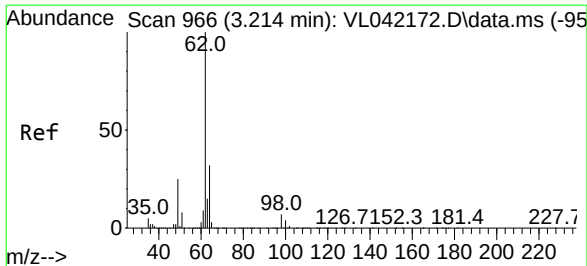
Ion Ratio Lower Upper

78 100

77 22.7 19.1 28.7

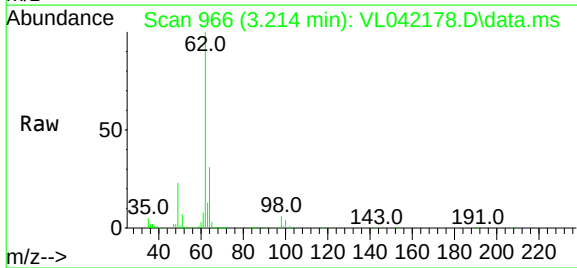
50 20.1 16.6 24.8





#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

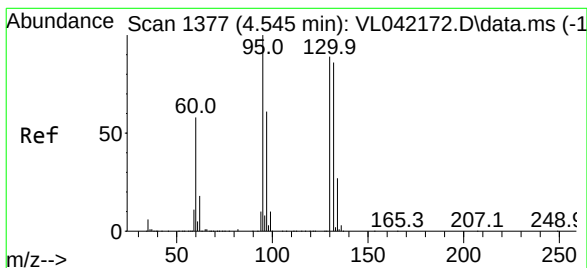
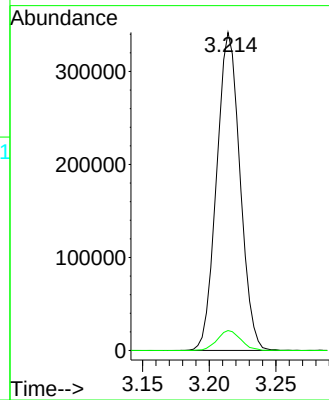
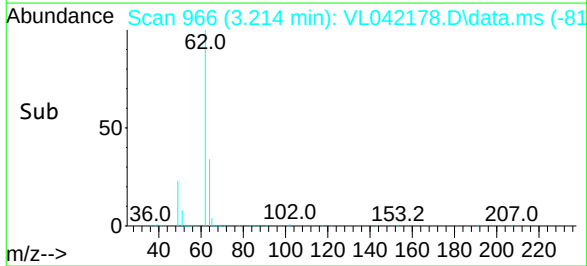
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



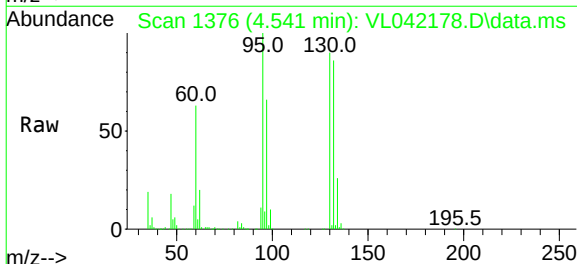
Tgt Ion: 62 Resp: 416544
Ion Ratio Lower Upper
62 100
98 6.4 5.4 8.2

Manual Integrations
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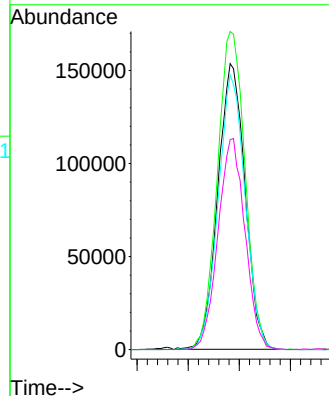
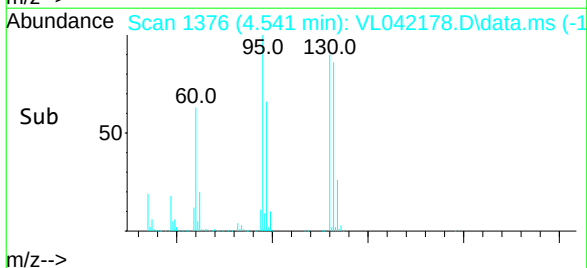
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

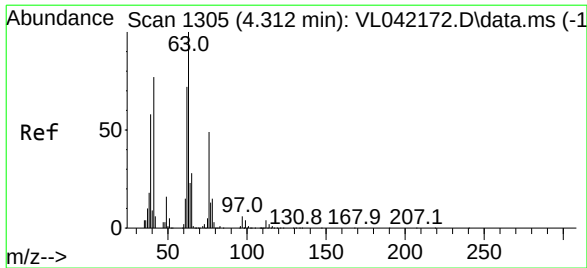


#38
Trichloroethene
Concen: 13.715 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.004 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



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





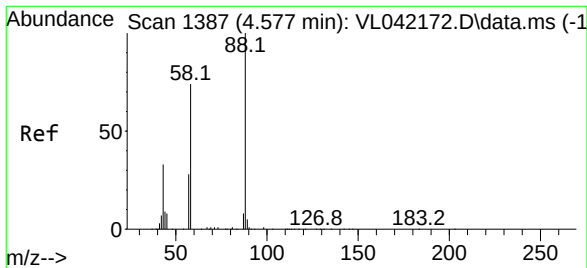
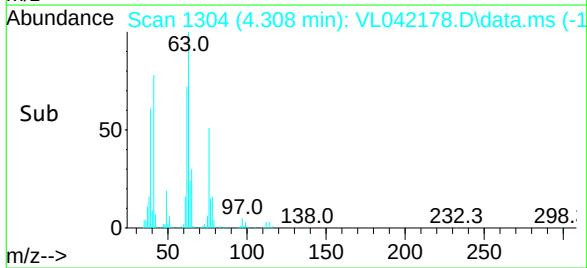
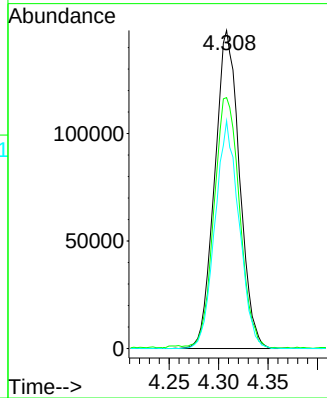
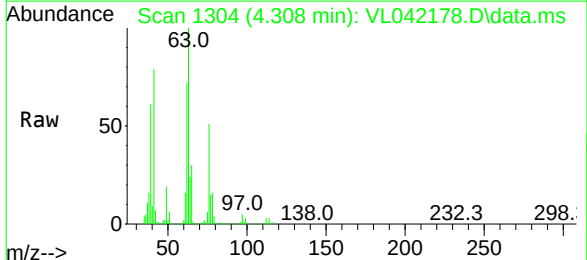
#39
1,2-Dichloropropane
Concen: 14.304 ppbv
RT: 4.308 min Scan# 1305
Delta R.T. -0.004 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

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

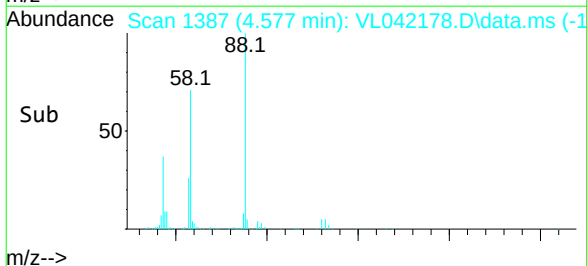
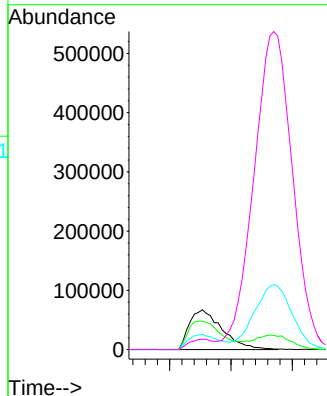
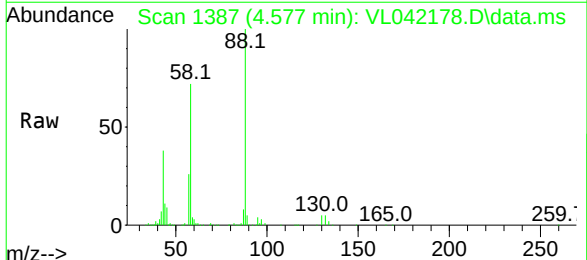
Manual Integrations
APPROVED

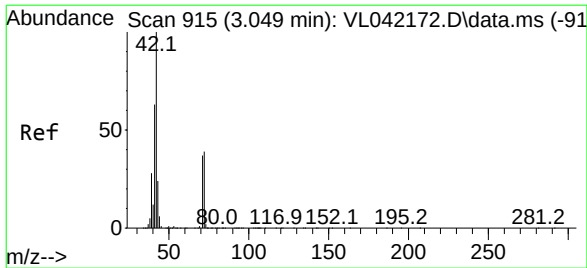
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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 :

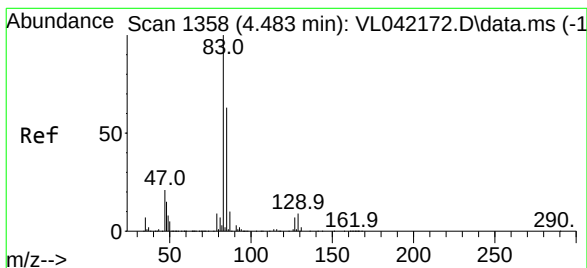
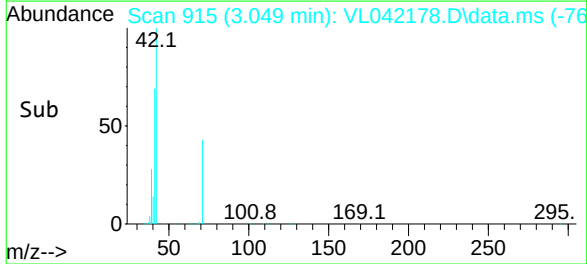
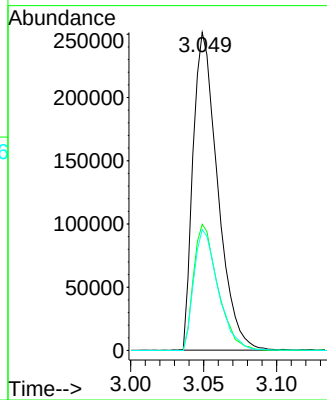
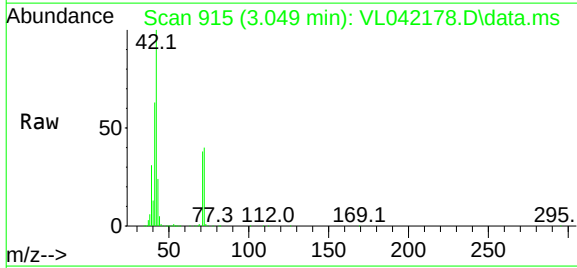
VSTDICC015

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

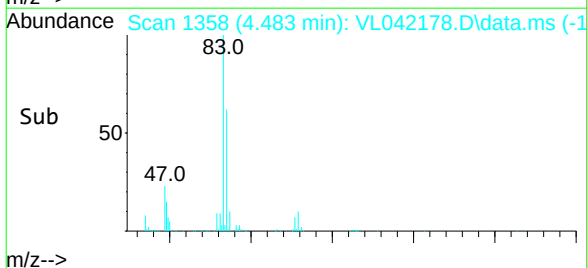
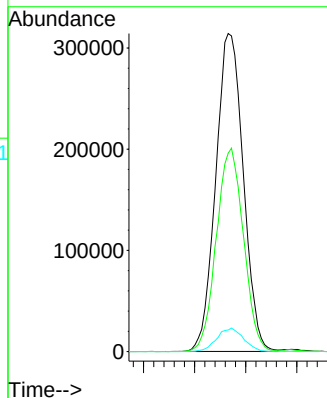
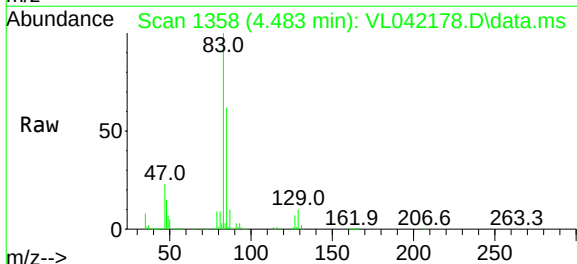
RT: 4.483 min Scan# 1358

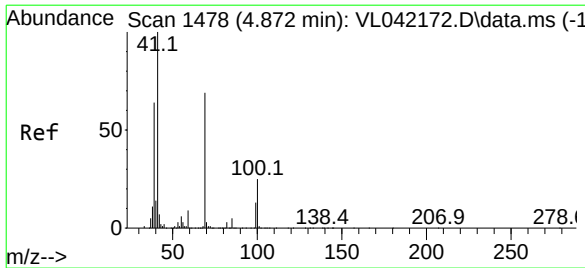
Delta R.T. -0.000 min

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





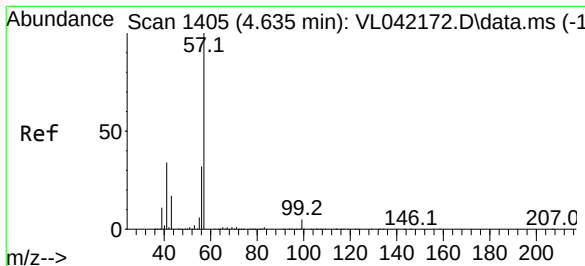
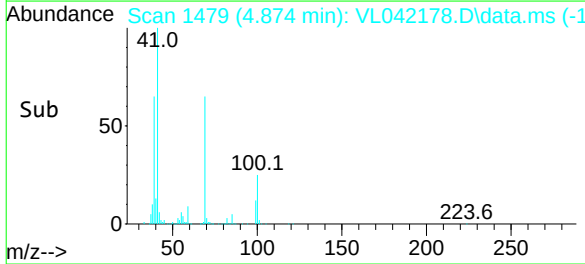
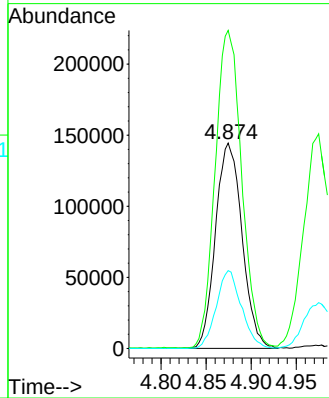
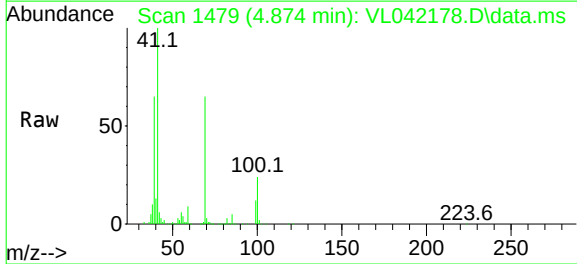
#43
Methyl Methacrylate
Concen: 14.130 ppbv
RT: 4.874 min Scan# 1478
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
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

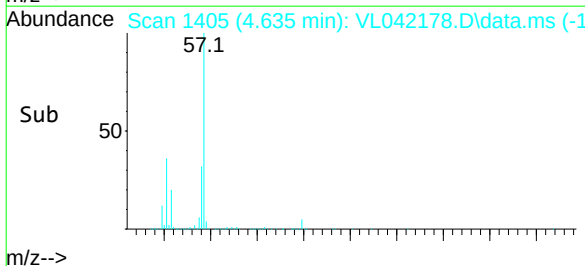
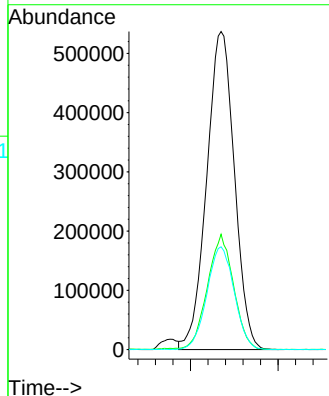
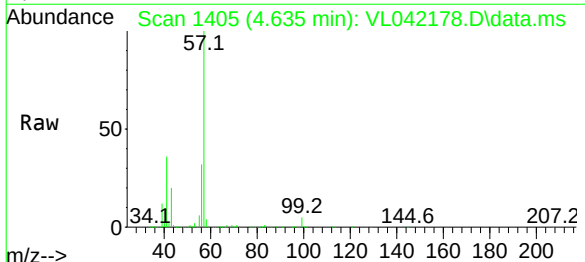
Manual Integrations
APPROVED

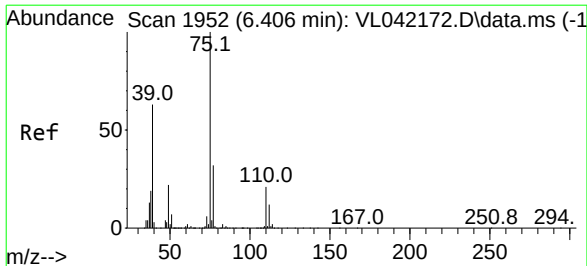
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

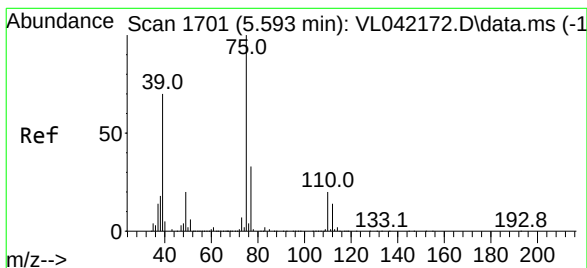
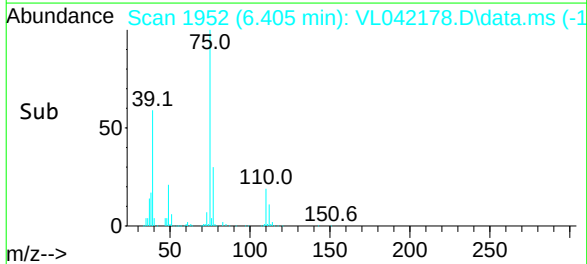
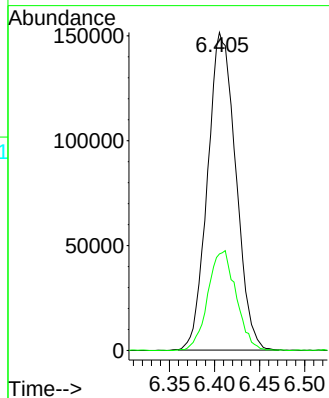
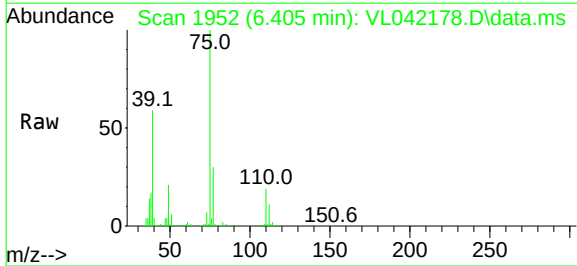
77 30.4 26.0 39.0

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

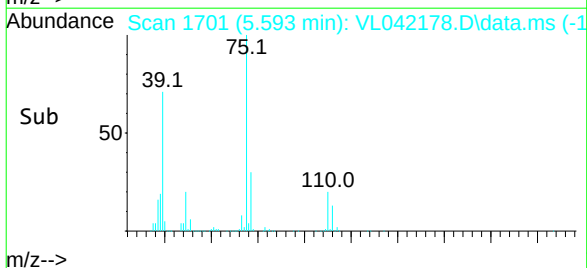
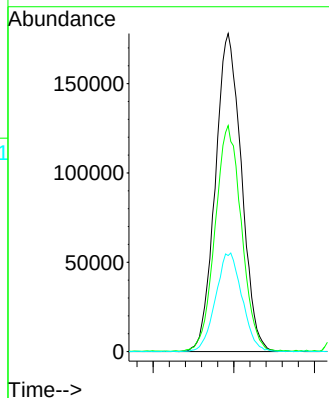
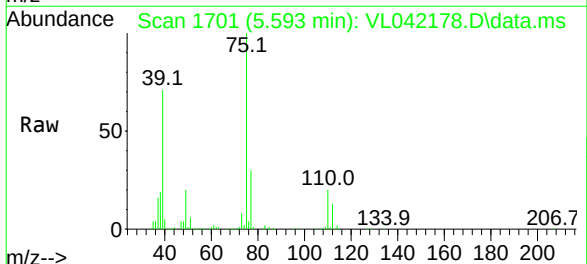
Tgt Ion: 75 Resp: 400813

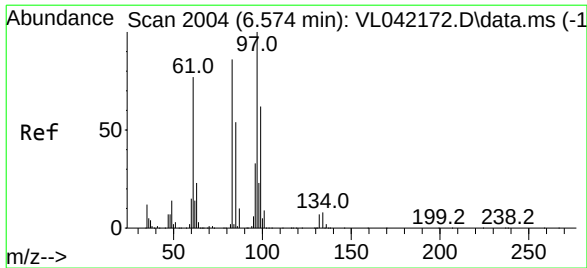
Ion Ratio Lower Upper

75 100

39 70.9 55.8 83.6

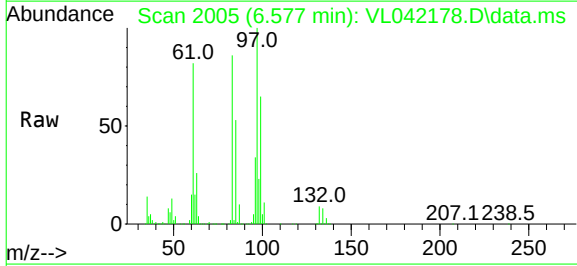
77 30.2 26.0 39.0





#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

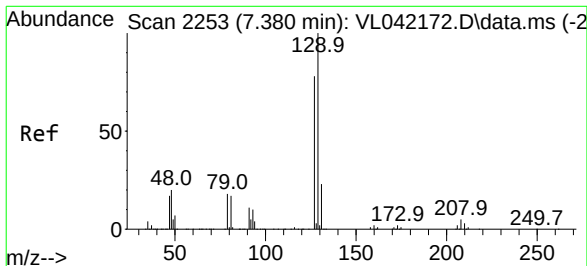
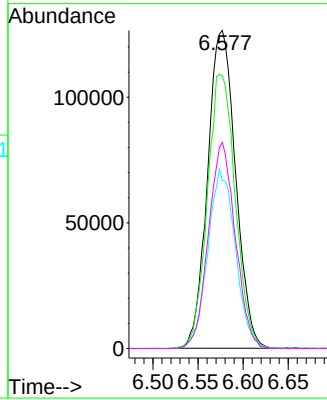
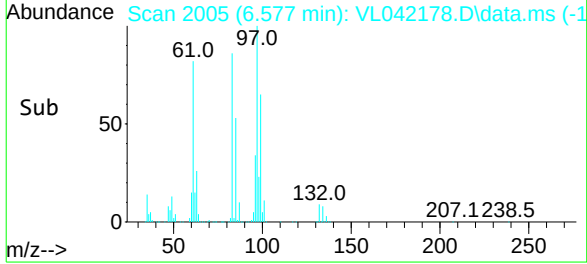
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



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

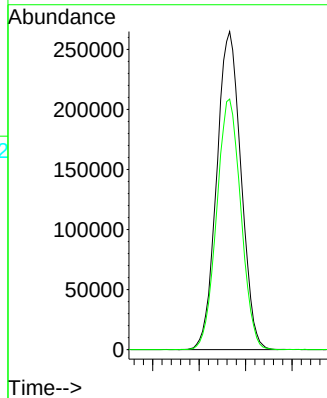
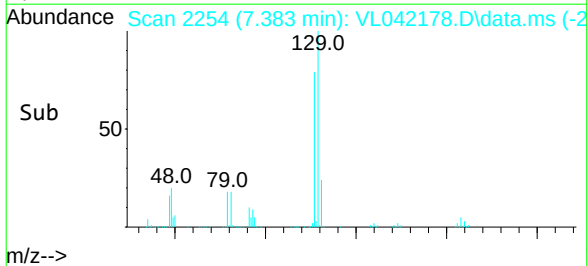
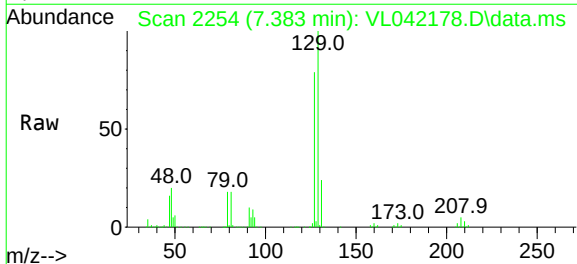
Manual Integrations
APPROVED

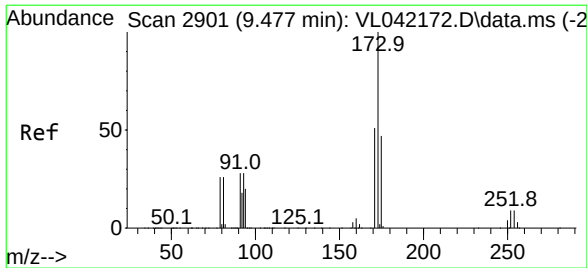
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





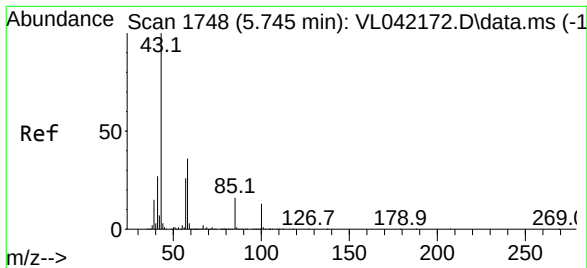
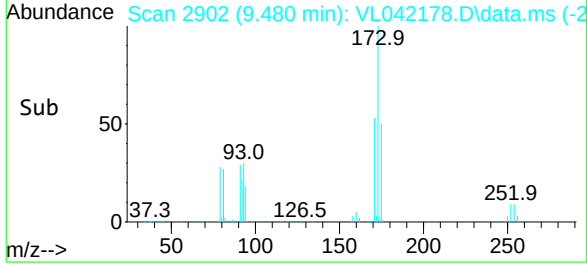
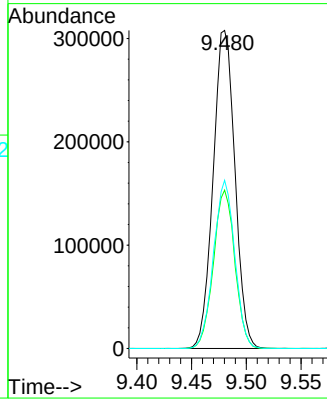
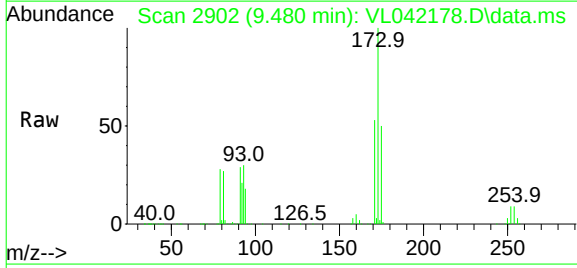
#49
Bromoform
Concen: 14.730 ppbv
RT: 9.480 min Scan# 2901
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

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

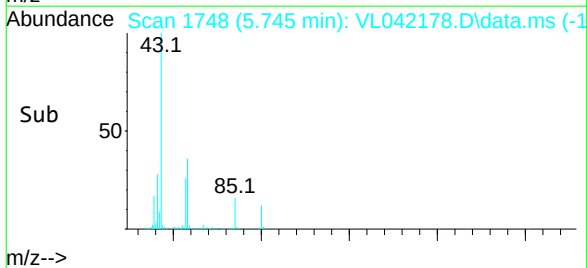
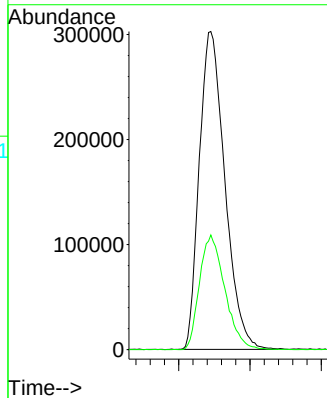
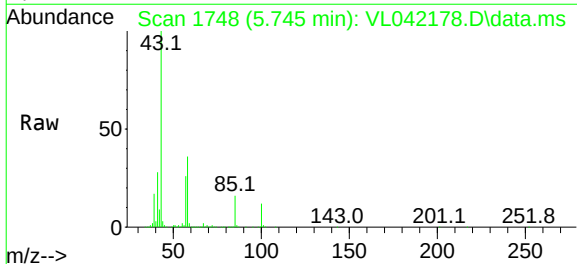
Manual Integrations
APPROVED

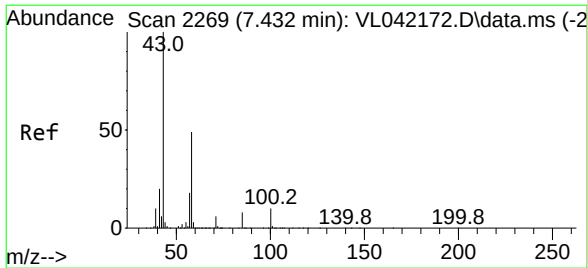
Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025



#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





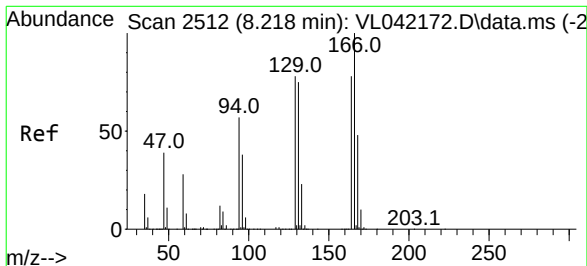
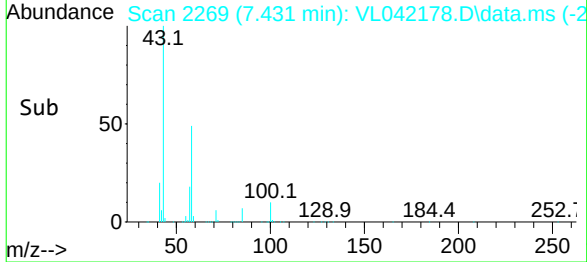
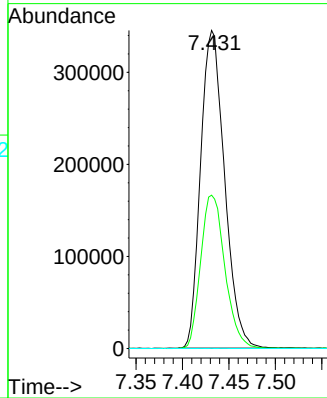
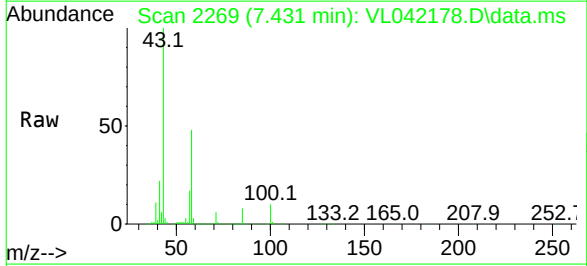
#51
2-Hexanone
Concen: 13.005 ppbv
RT: 7.431 min Scan# 2269
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

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#

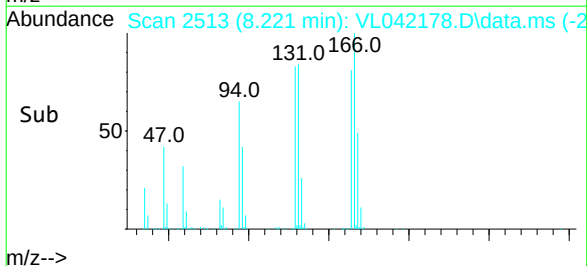
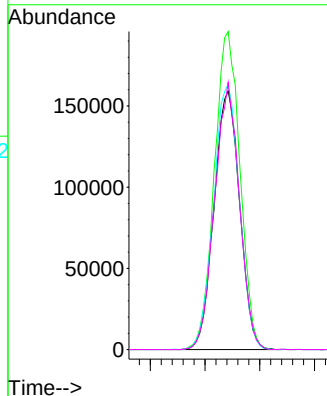
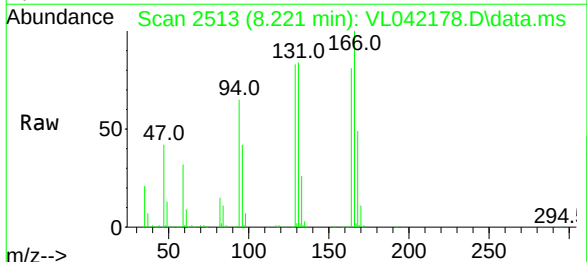
Manual Integrations
APPROVED

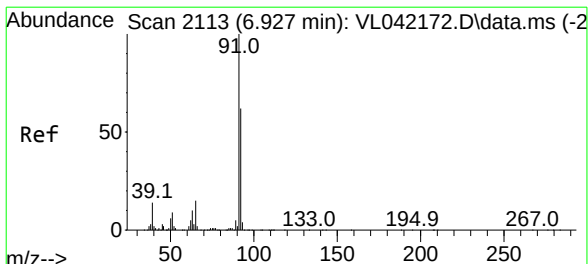
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

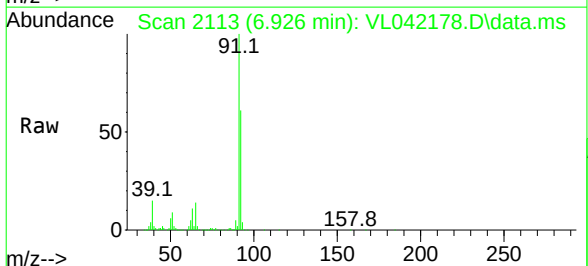
Tgt Ion:164 Resp: 258356
Ion Ratio Lower Upper
164 100
166 123.0 102.5 153.7
129 102.5 79.8 119.8
131 103.3 76.6 114.8





#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

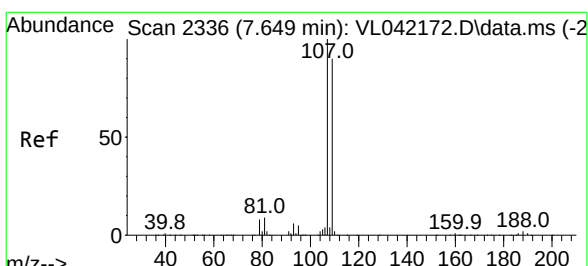
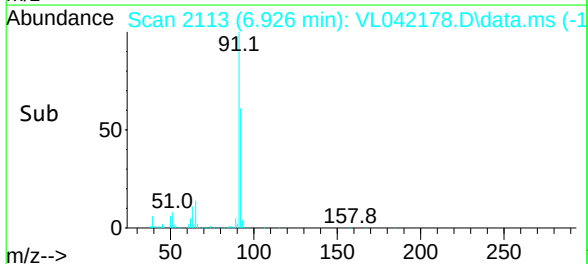
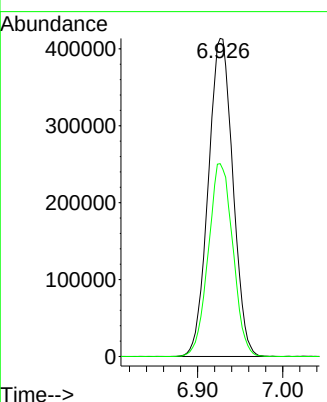
Instrument : MSVOA_L
ClientSampleId : VSTDIC015



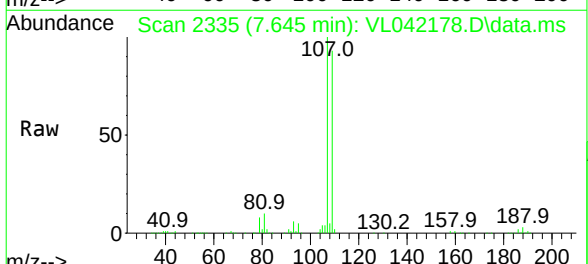
Tgt Ion: 91 Resp: 829648

Ion	Ratio	Lower	Upper
91	100		
92	60.6	48.4	72.6

Manual Integrations
APPROVED
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

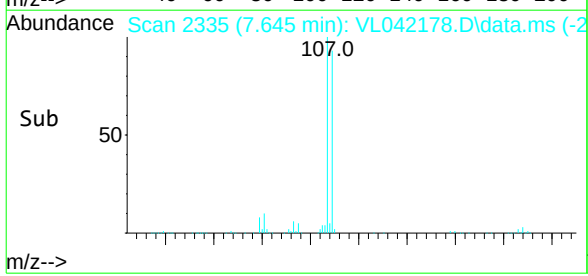
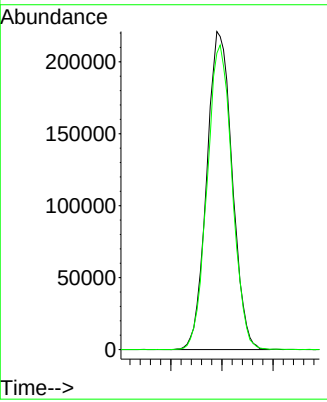


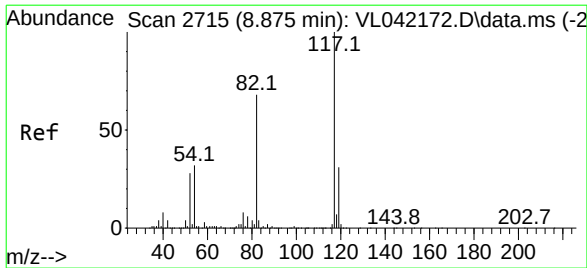
#54
1,2-Dibromoethane
Concen: 14.359 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.004 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



Tgt Ion:107 Resp: 381823

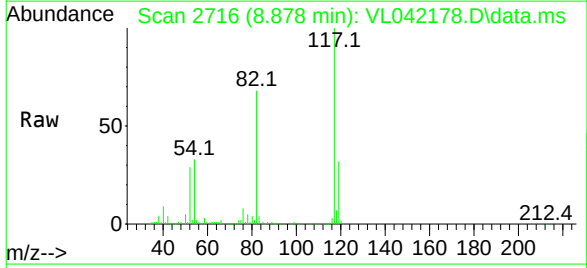
Ion	Ratio	Lower	Upper
107	100		
109	93.2	72.2	108.4





#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

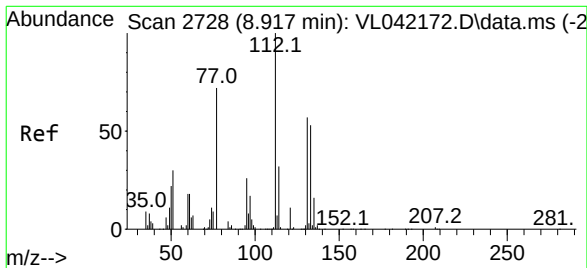
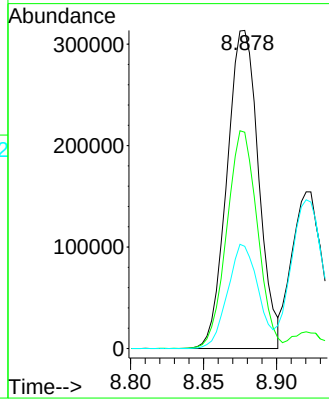
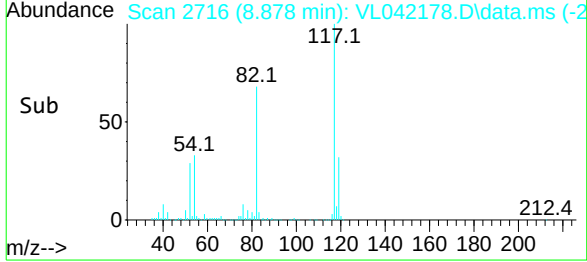
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



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

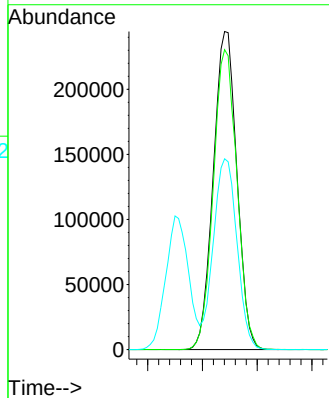
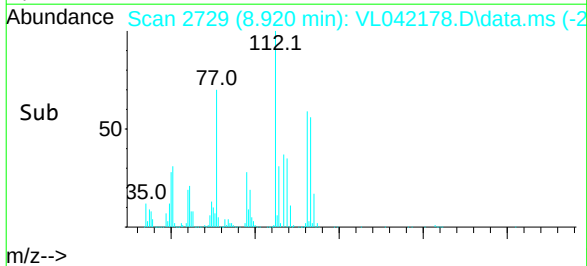
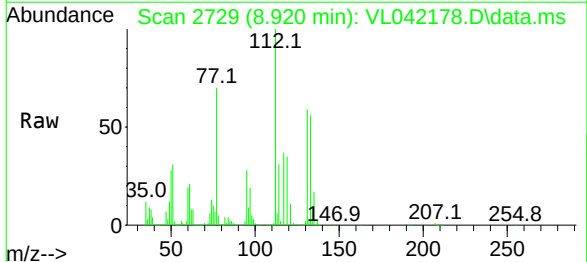
Manual Integrations
APPROVED

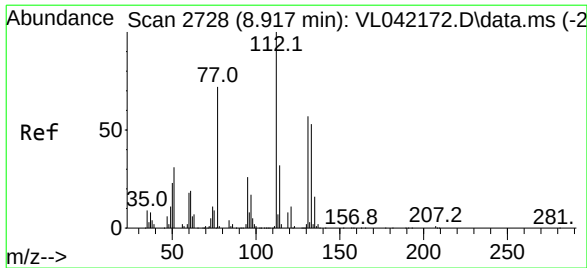
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

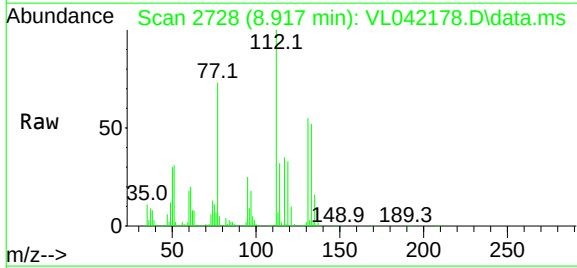
Tgt Ion:131 Resp: 365410
Ion Ratio Lower Upper
131 100
133 94.5 76.6 114.8
119 61.2 49.8 74.6





#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

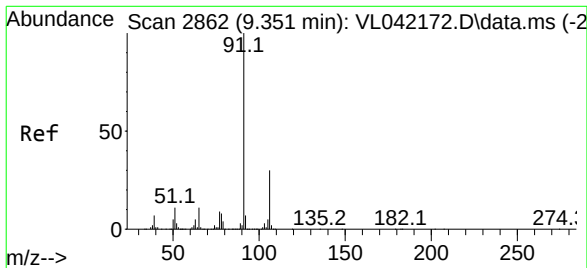
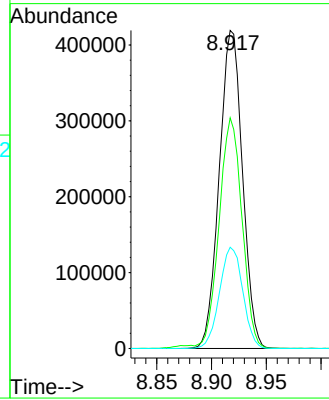
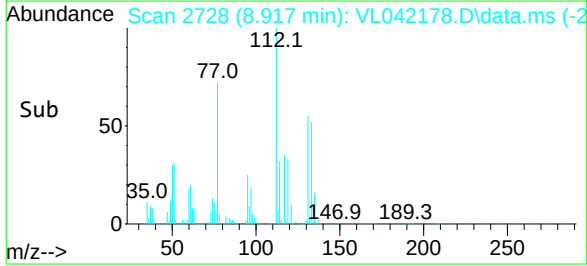
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



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

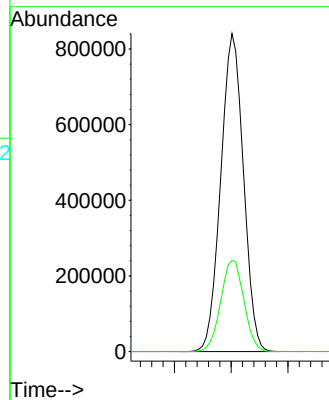
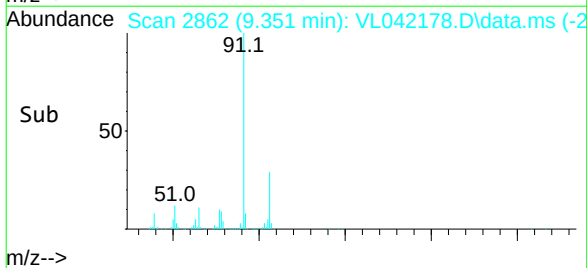
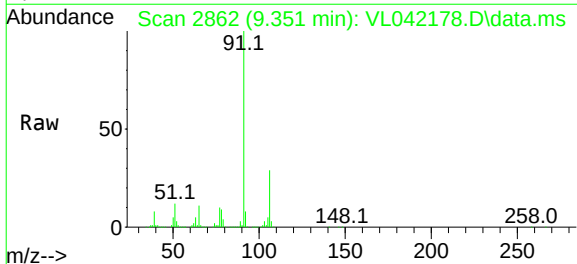
Manual Integrations
APPROVED

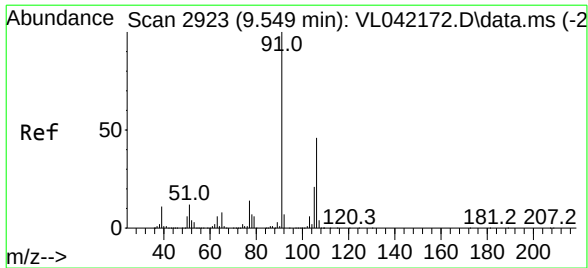
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

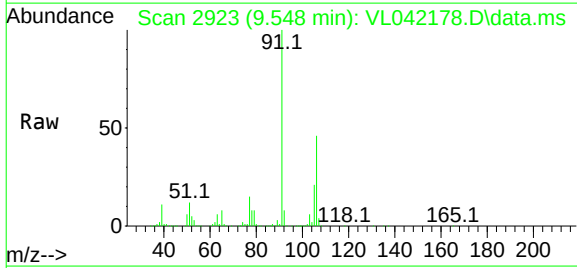
Tgt Ion: 91 Resp: 1167096
Ion Ratio Lower Upper
91 100
106 28.7 24.2 36.2





#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

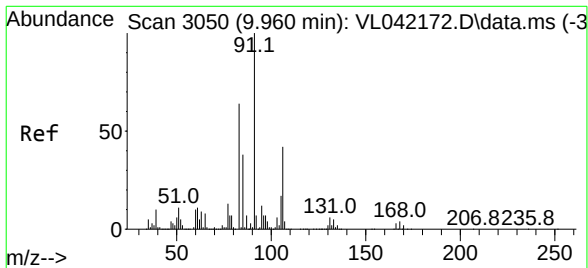
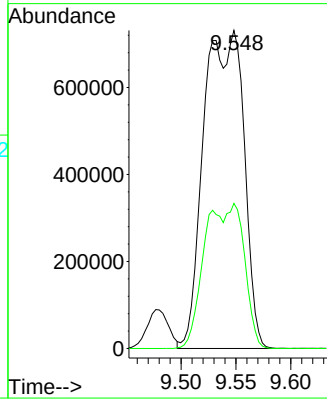
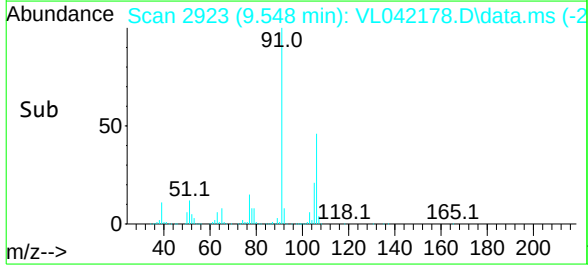
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 91 Resp: 1857561
Ion Ratio Lower Upper
91 100
106 45.2 36.4 54.6

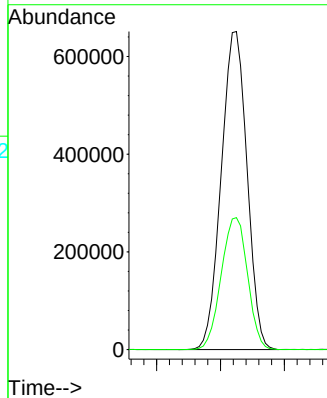
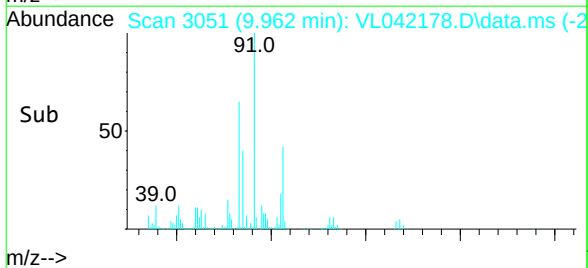
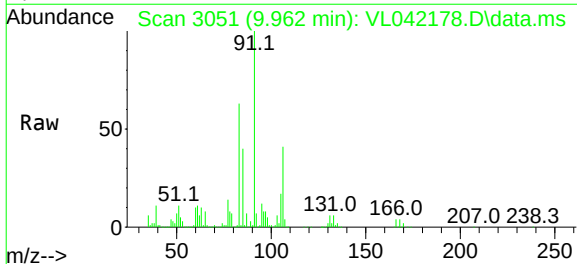
Manual Integrations
APPROVED

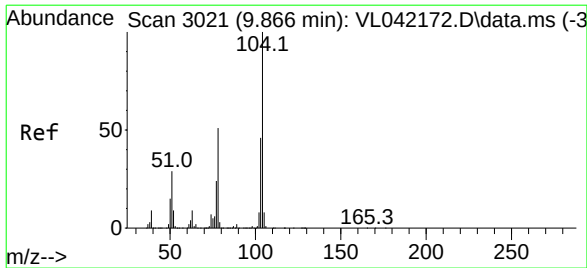
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





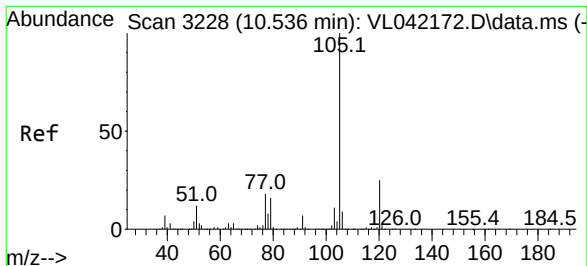
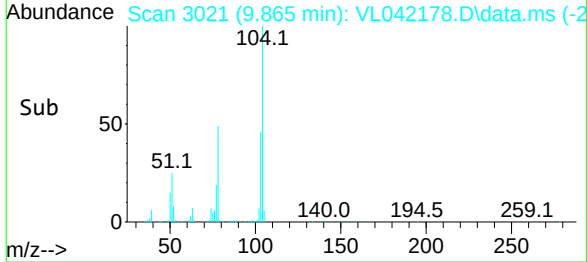
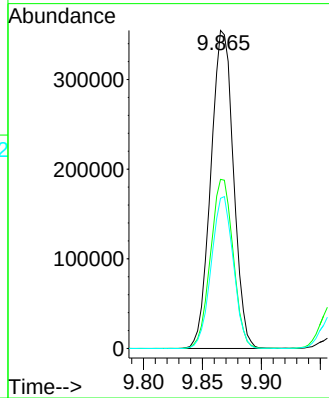
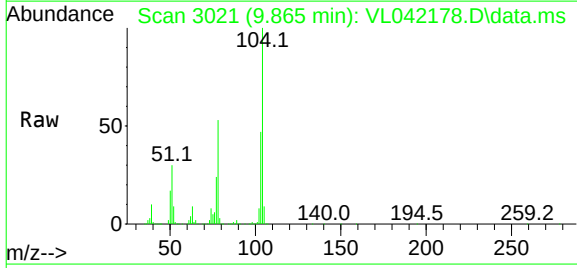
#61
Styrene
Concen: 14.250 ppbv
RT: 9.865 min Scan# 3021
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

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

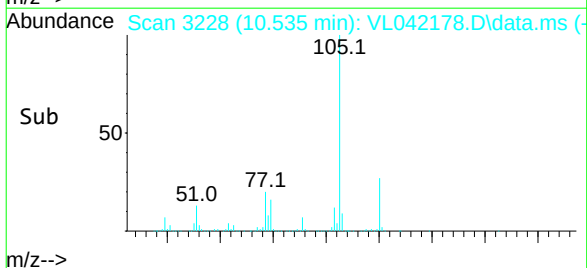
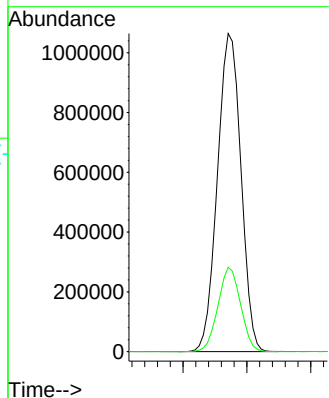
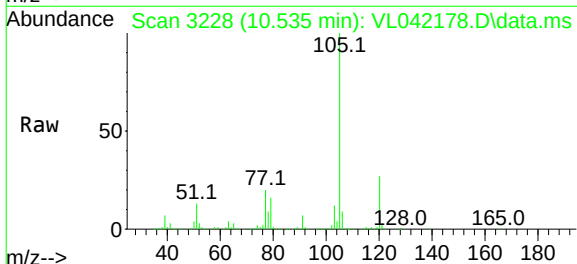
Manual Integrations
APPROVED

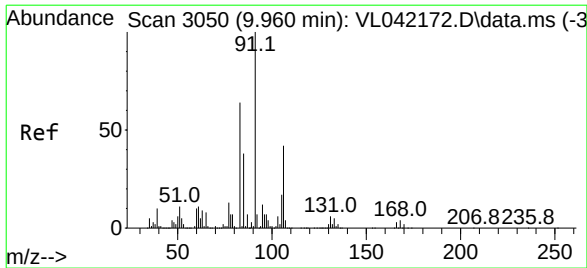
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

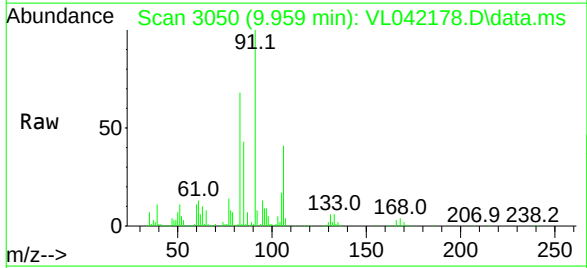
Tgt Ion:105 Resp: 1362416
Ion Ratio Lower Upper
105 100
120 25.3 19.9 29.9





#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

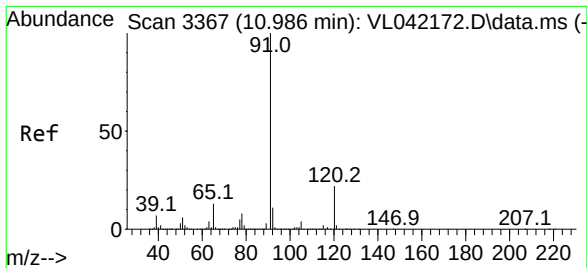
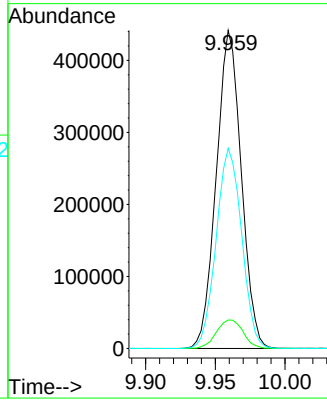
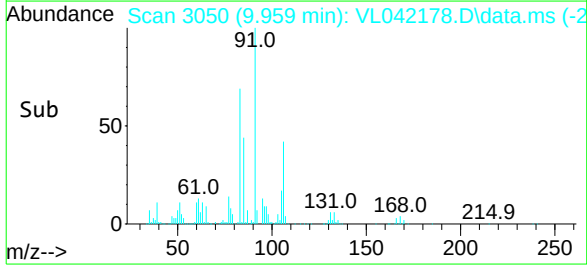
Instrument : MSVOA_L
ClientSampleId : VSTDIC015



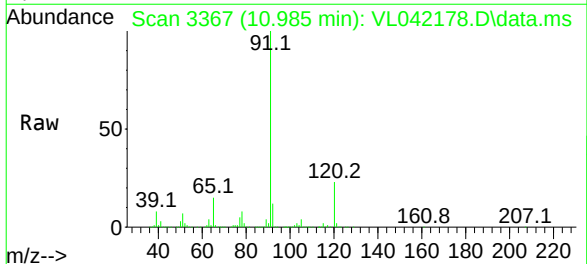
Tgt Ion: 83 Resp: 551386
Ion Ratio Lower Upper
83 100
131 9.6 4.8 14.4
85 64.2 32.5 97.5

Manual Integrations
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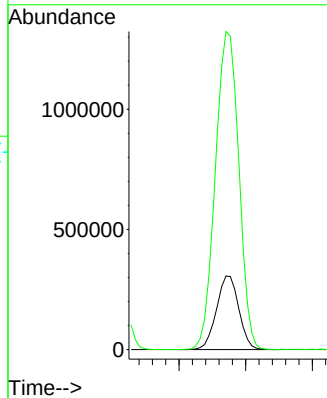
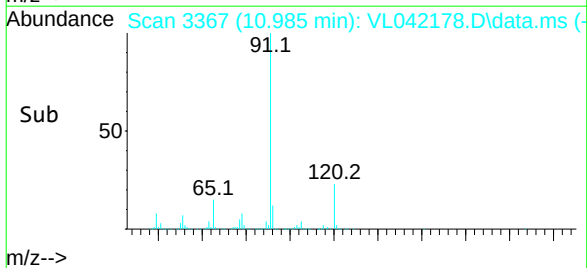
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

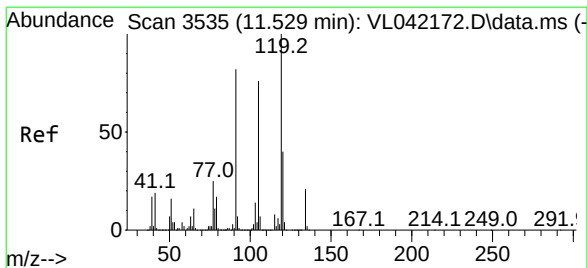


#64
n-propylbenzene
Concen: 13.753 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



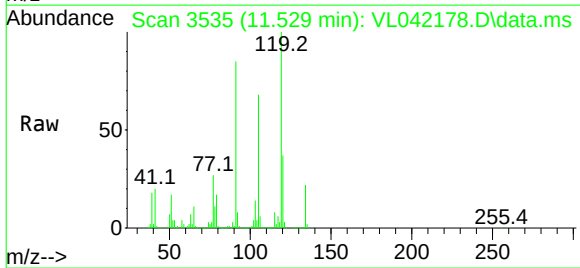
Tgt Ion:120 Resp: 356118
Ion Ratio Lower Upper
120 100
91 455.4 376.9 565.3





#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

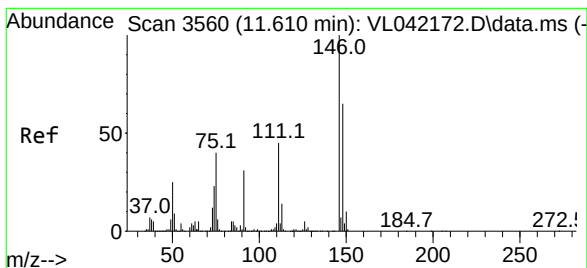
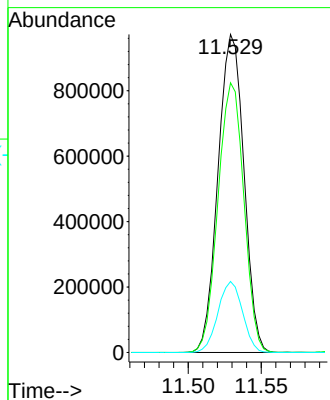
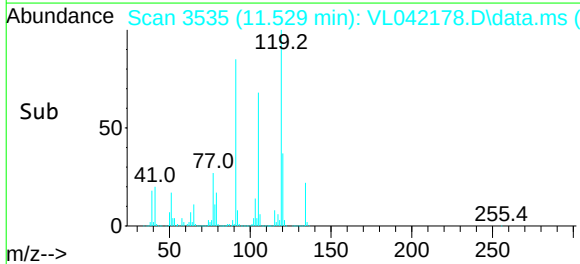
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



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

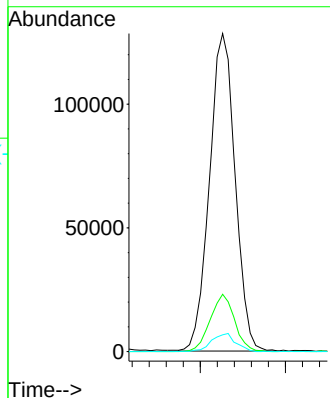
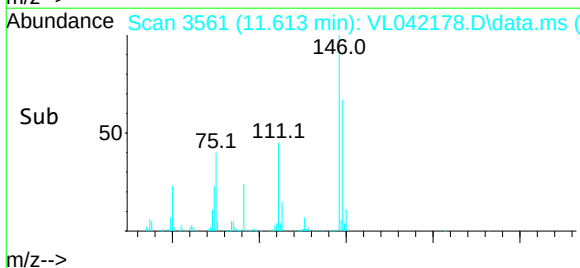
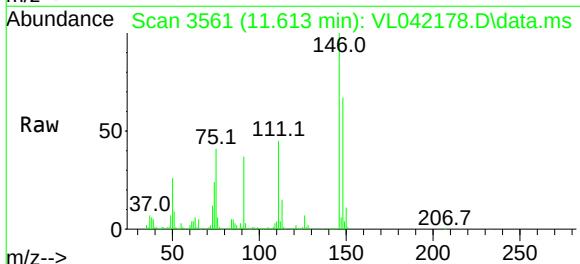
Manual Integrations
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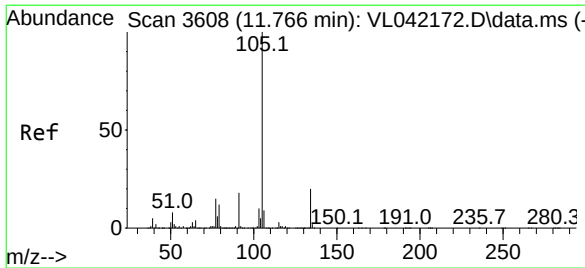
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

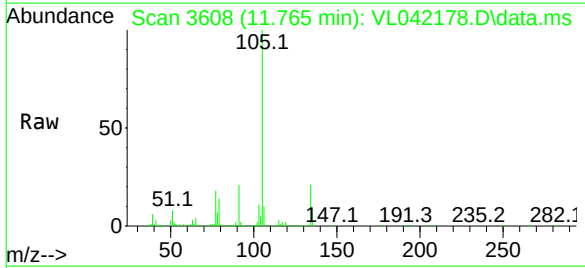
Tgt Ion: 91 Resp: 134397
Ion Ratio Lower Upper
91 100
126 17.3 13.8 20.6
128 5.4 4.5 6.7





#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

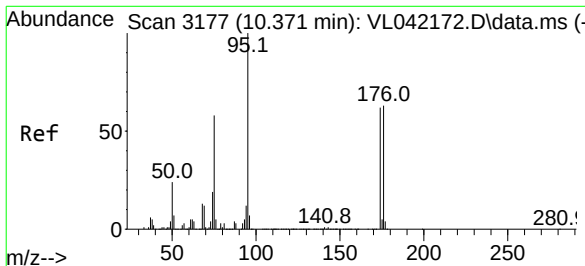
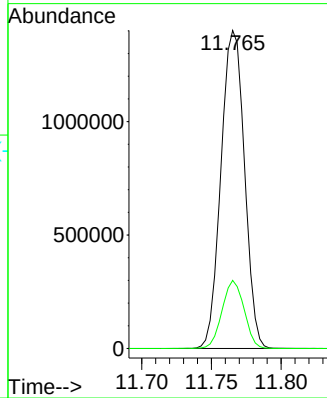
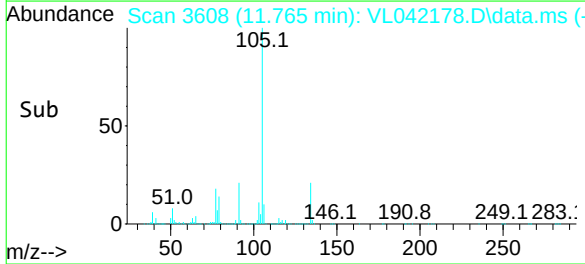
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 105 Resp: 1643629
Ion Ratio Lower Upper
105 100
134 20.0 15.5 23.3

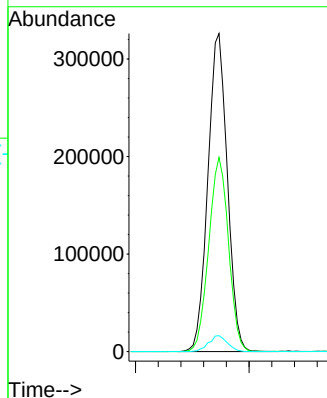
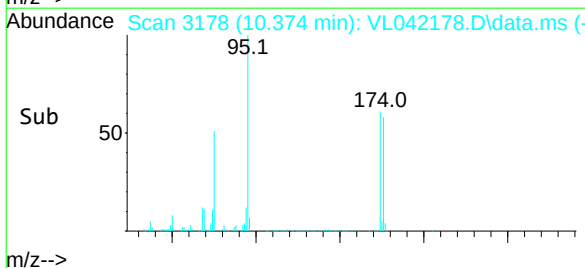
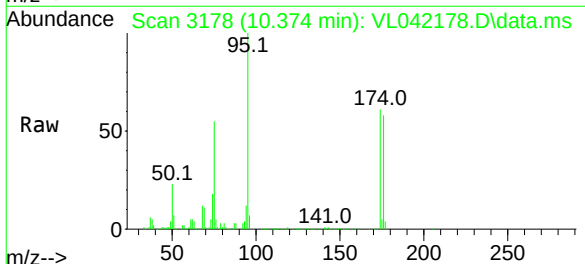
Manual Integrations
APPROVED

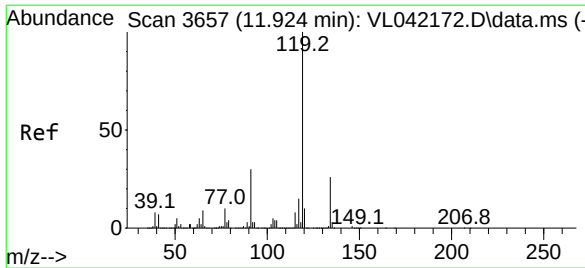
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





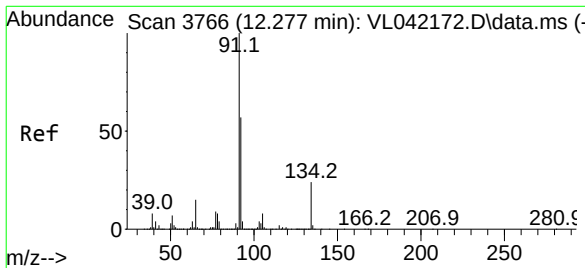
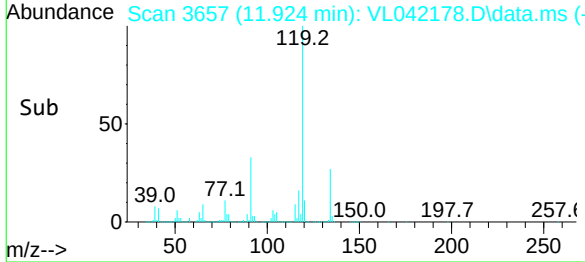
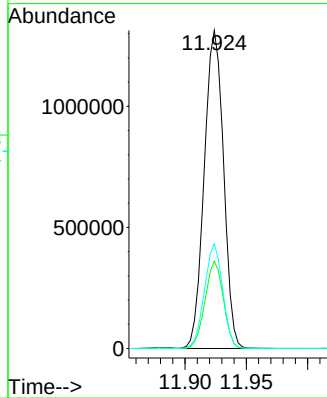
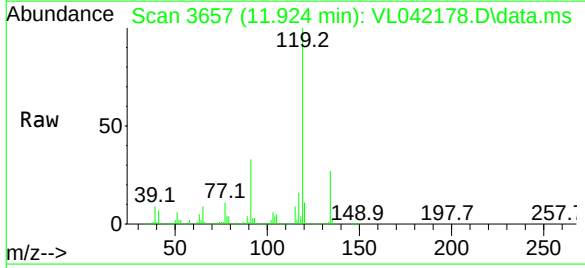
#69
p-Isopropyltoluene
Concen: 12.906 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

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

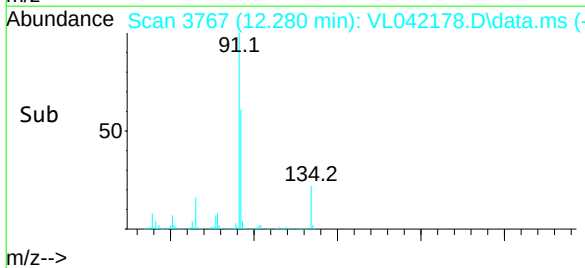
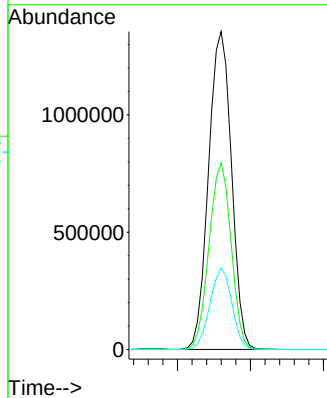
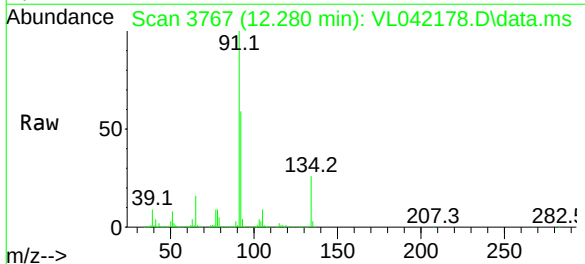
Manual Integrations
APPROVED

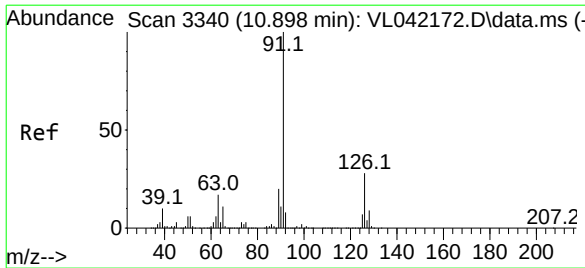
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





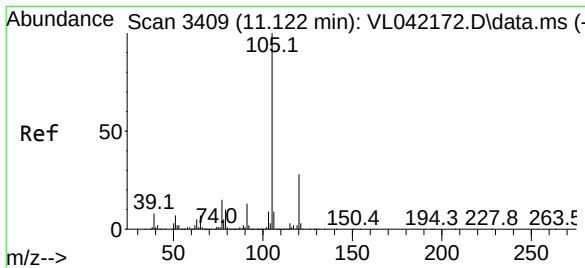
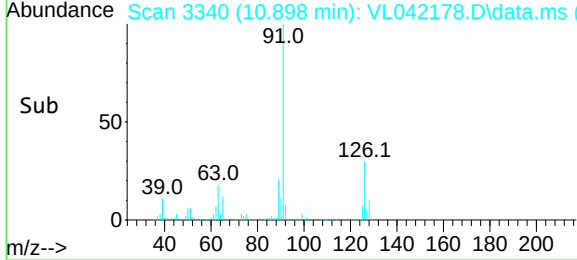
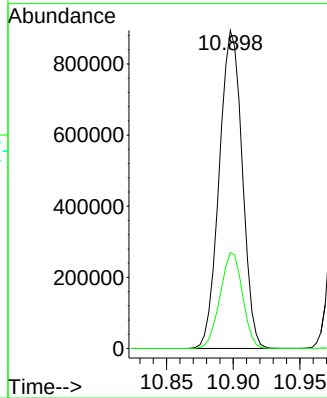
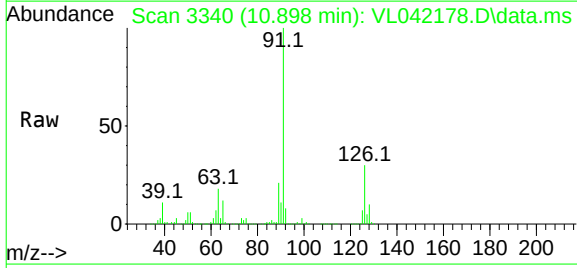
#71
2-Chlorotoluene
Concen: 13.724 ppbv
RT: 10.898 min Scan# 3340
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 91 Resp: 1071432
Ion Ratio Lower Upper
91 100
126 29.5 11.6 46.4

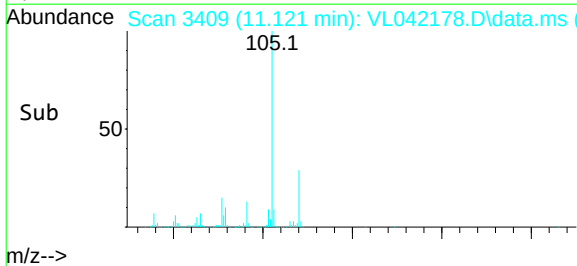
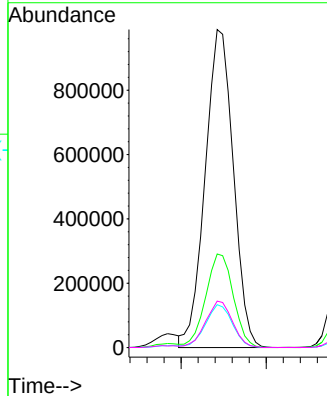
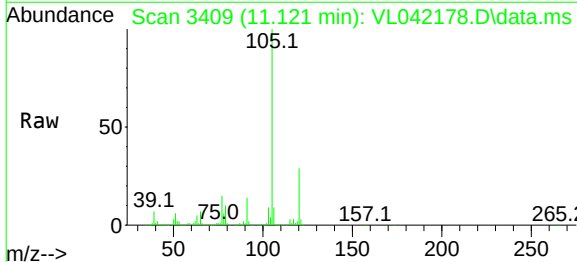
Manual Integrations
APPROVED

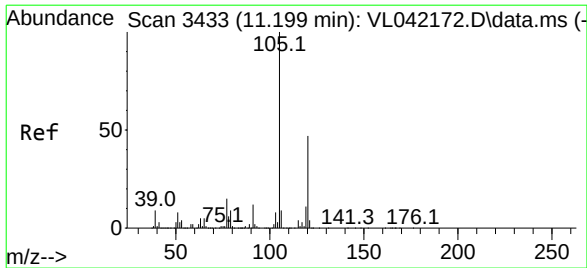
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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# 34

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

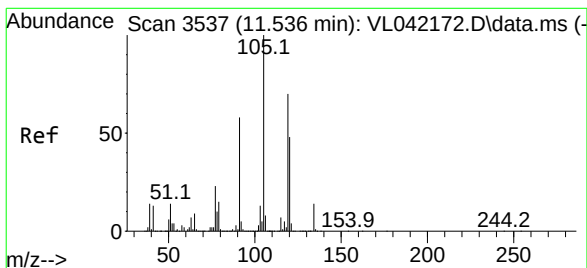
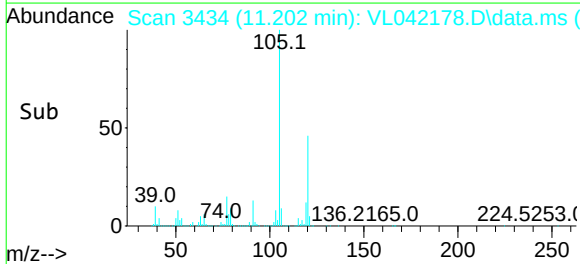
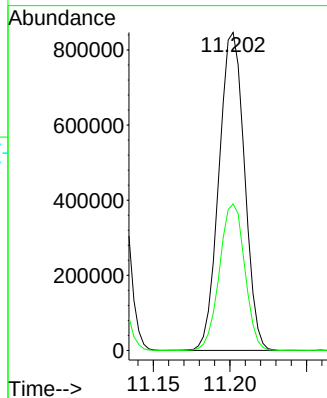
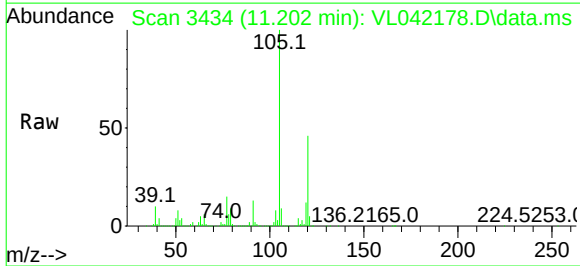
120 46.1 37.4 56.0

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

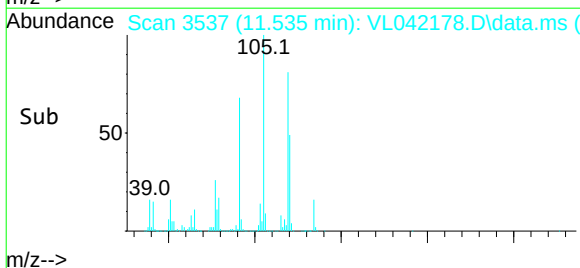
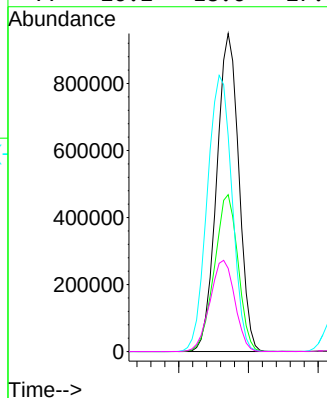
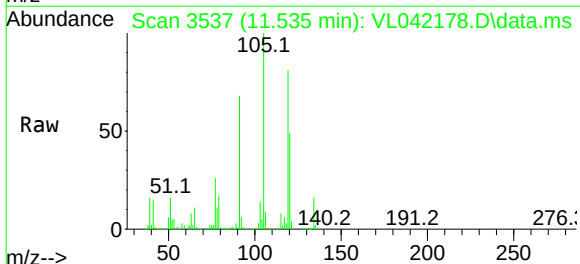
Ion Ratio Lower Upper

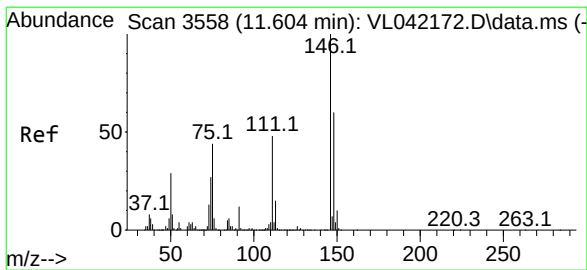
105 100

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 :

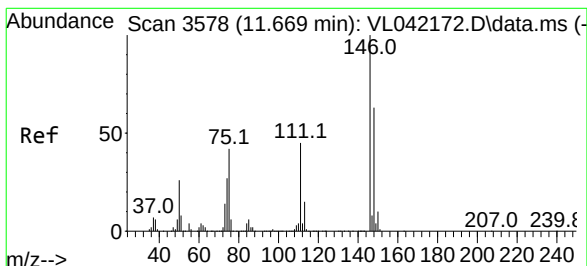
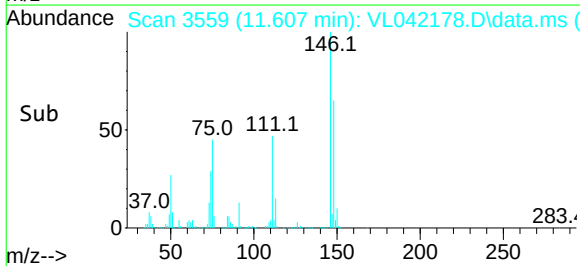
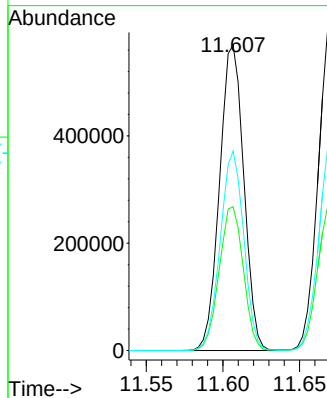
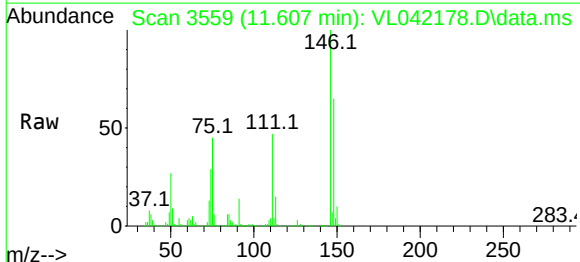
VSTDICC015

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

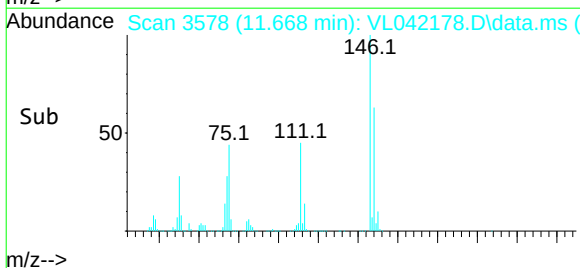
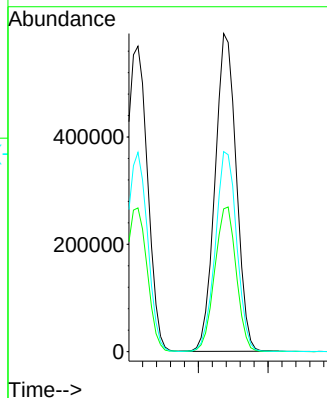
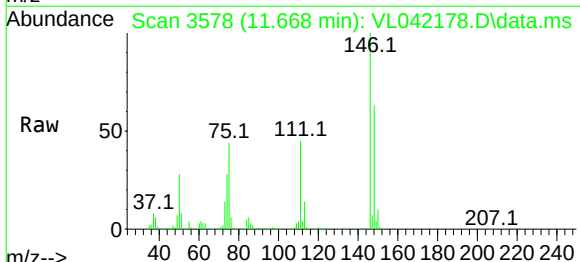
RT: 11.668 min Scan# 3578

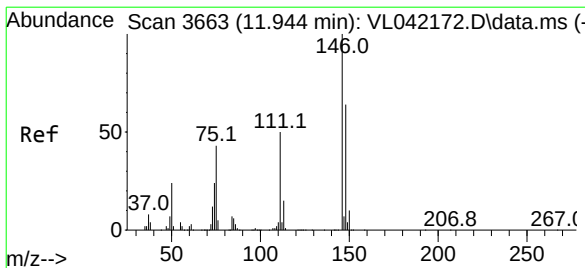
Delta R.T. -0.000 min

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 :

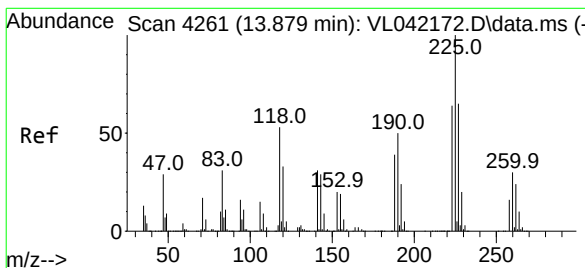
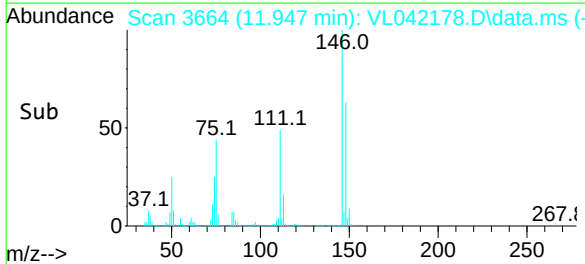
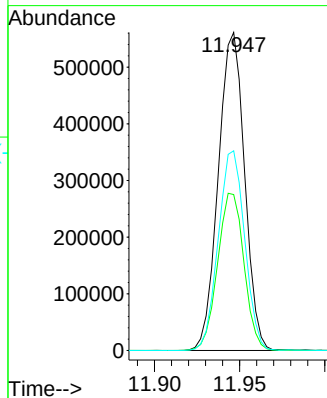
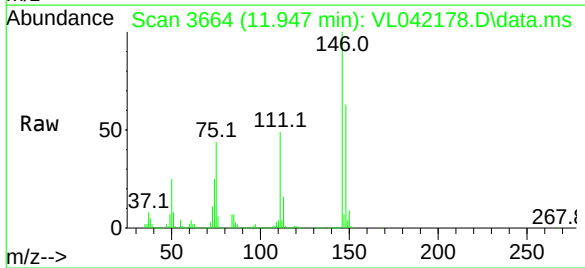
VSTDIC015

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

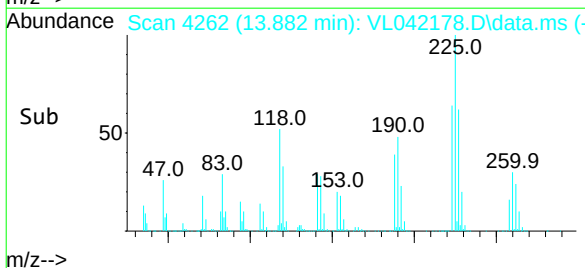
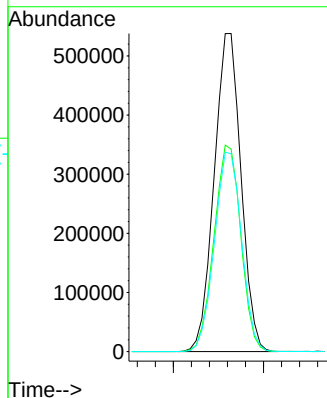
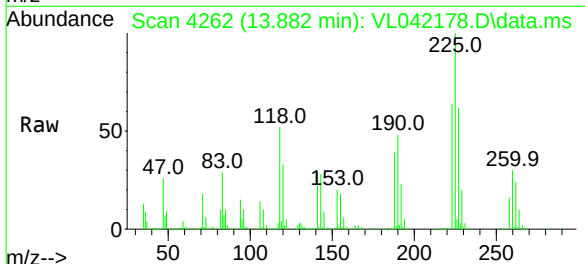
RT: 13.882 min Scan# 4262

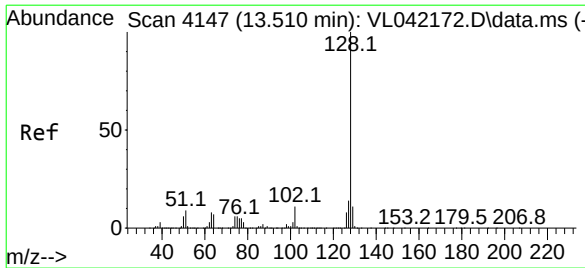
Delta R.T. 0.003 min

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 :

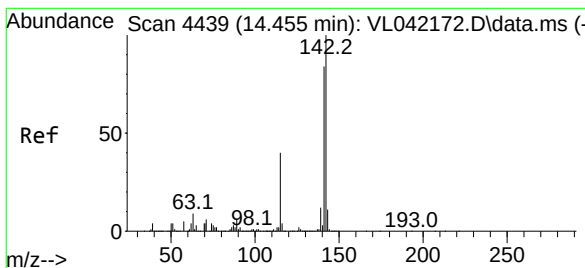
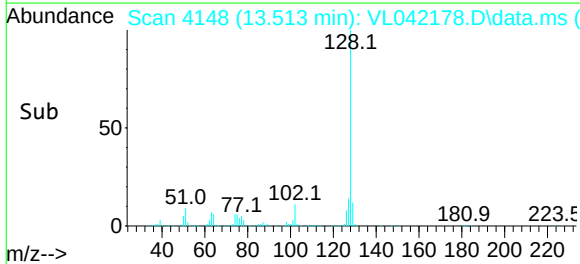
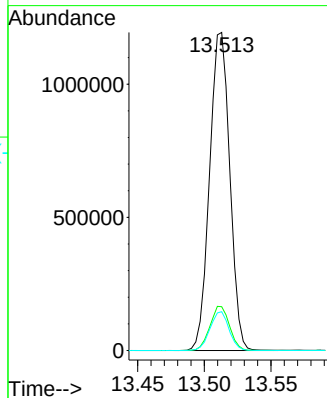
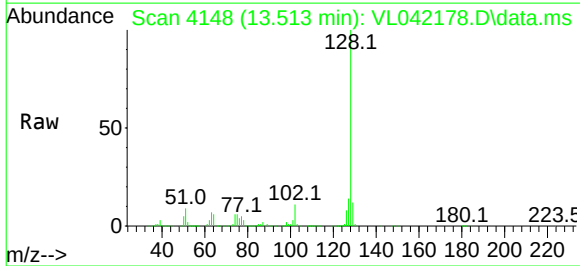
VSTDIC015

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

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

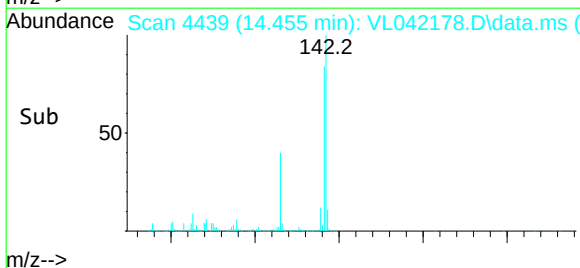
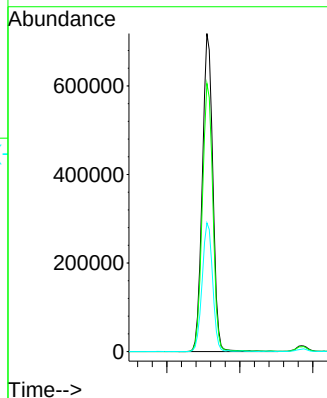
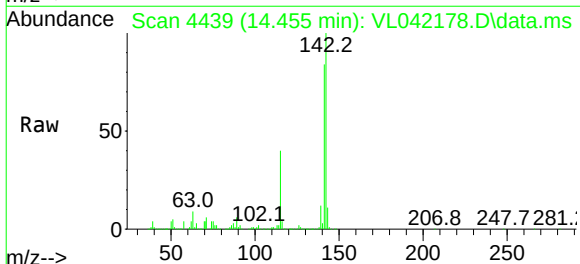
RT: 14.455 min Scan# 4439

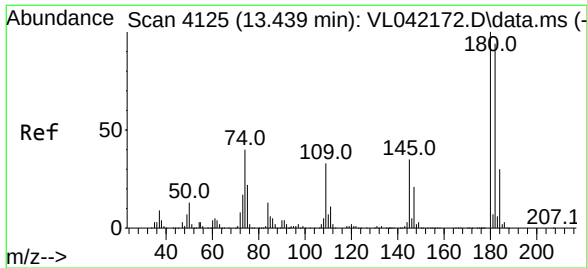
Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

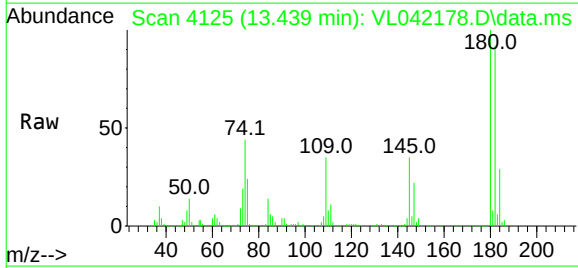
Tgt Ion:	142	Resp:	718900
Ion	Ratio	Lower	Upper
142	100		
141	84.3	66.3	99.5
115	40.6	31.6	47.4





#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

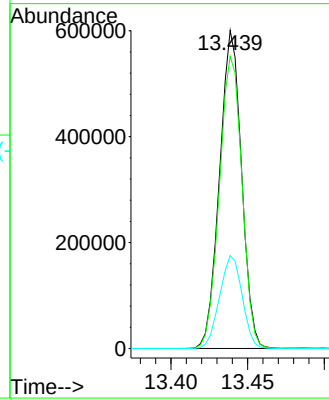
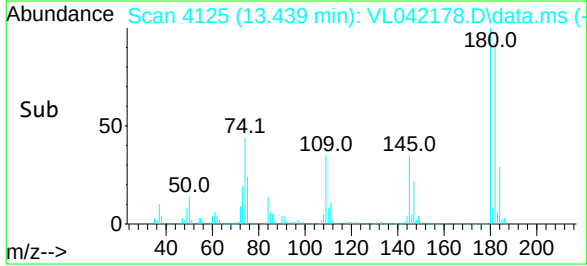
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



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

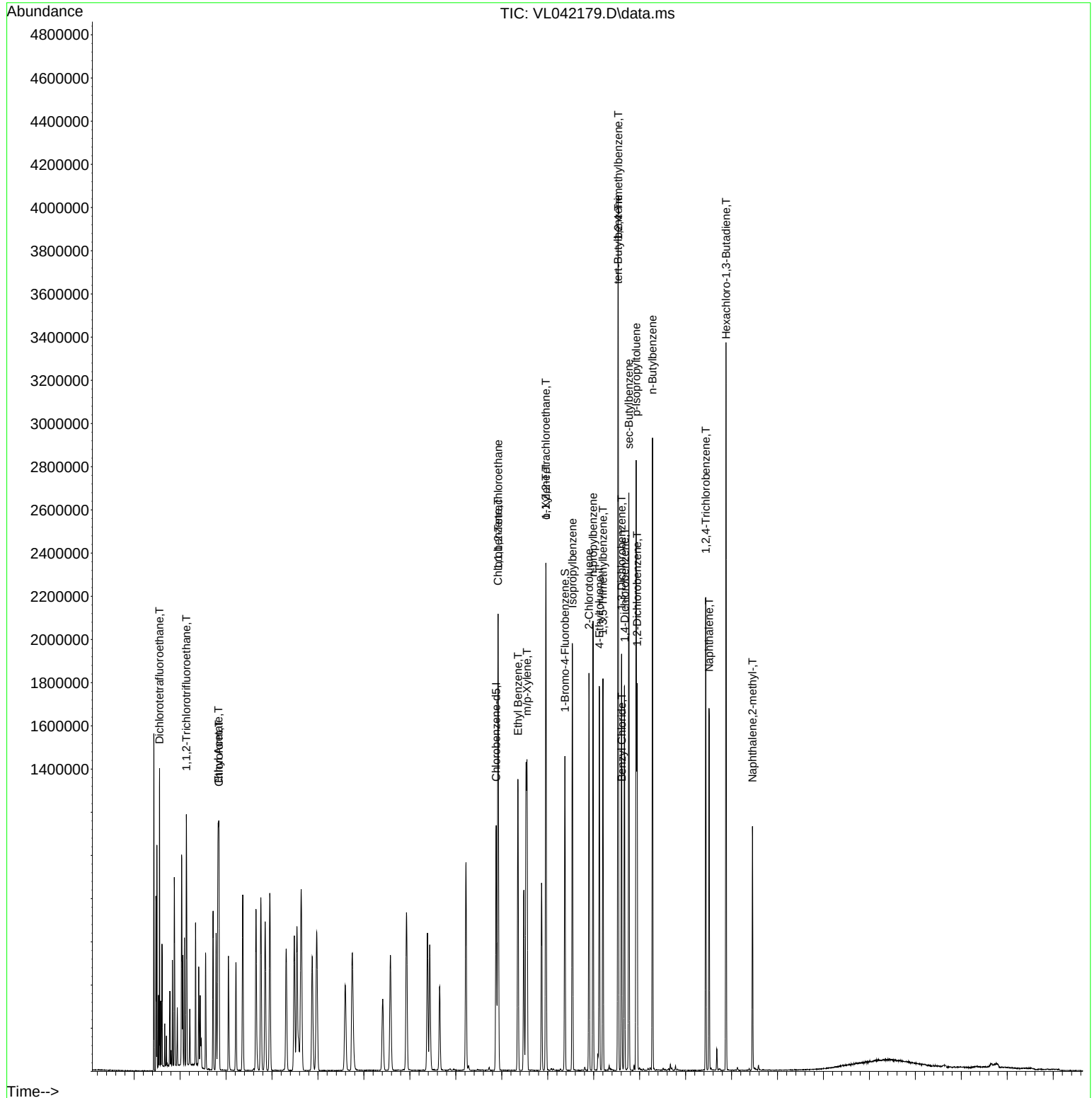
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042179.D
Acq On : 27 Mar 2025 12:23
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

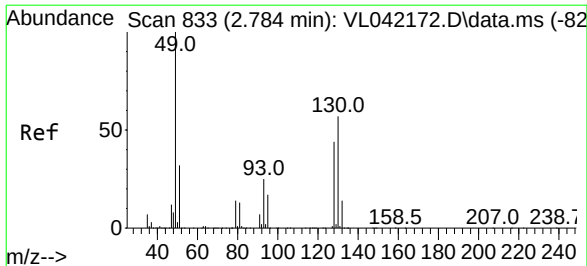
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

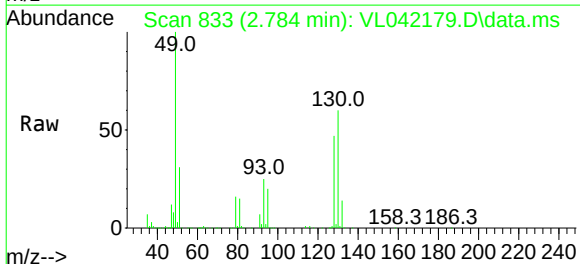
Quant Time: Mar 28 02:05:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration





#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

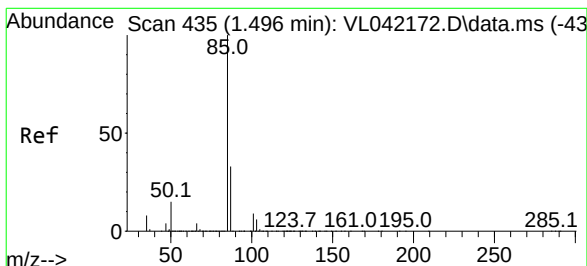
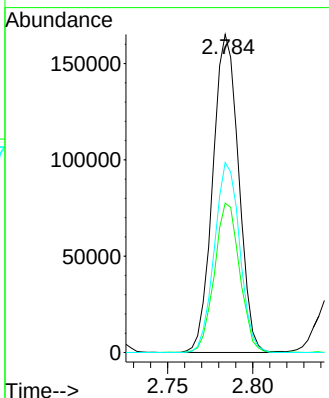
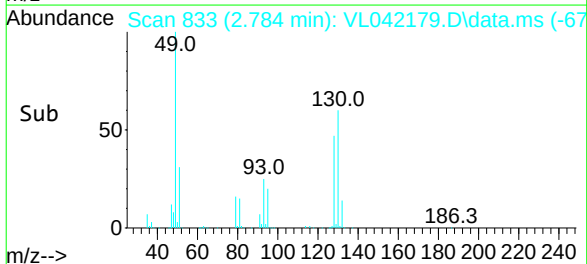
Instrument : MSVOA_L
ClientSampleId : ICVVL032725



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

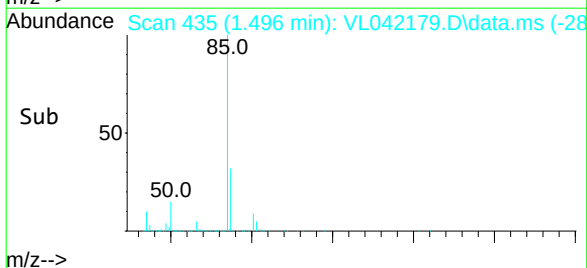
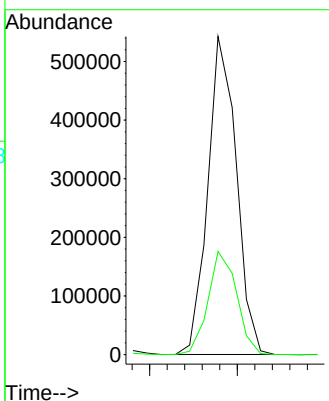
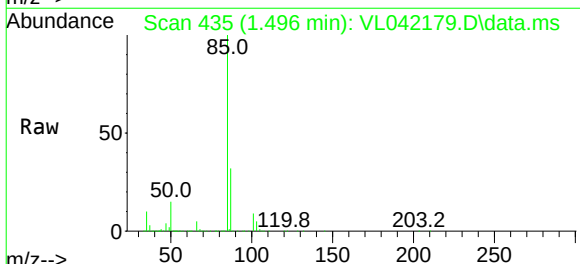
Manual Integrations
APPROVED

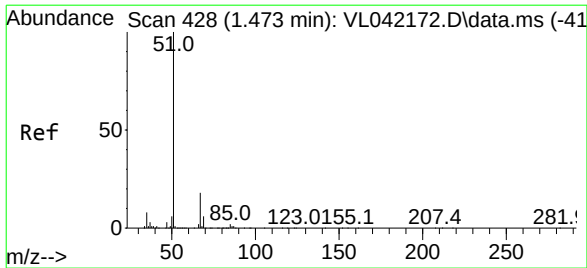
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

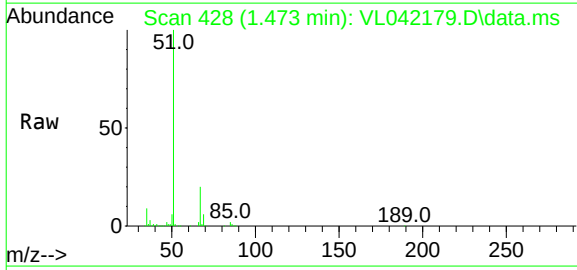
Tgt Ion: 85 Resp: 245714
Ion Ratio Lower Upper
85 100
87 32.4 26.1 39.1





#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

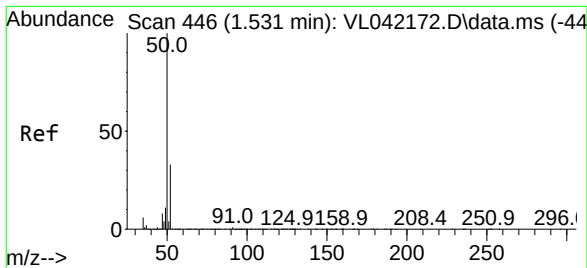
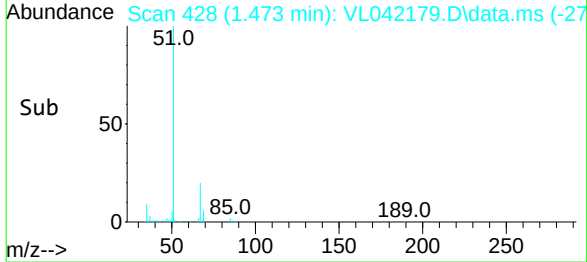
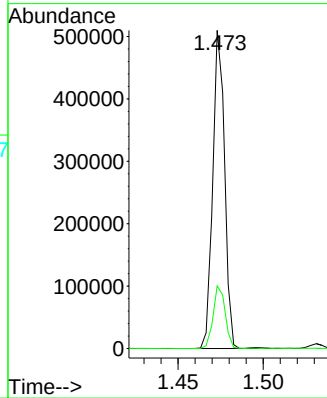
Instrument : MSVOA_L
ClientSampleId : ICVVL032725



Tgt Ion: 51 Resp: 247046
Ion Ratio Lower Upper
51 100
67 20.1 15.0 22.6

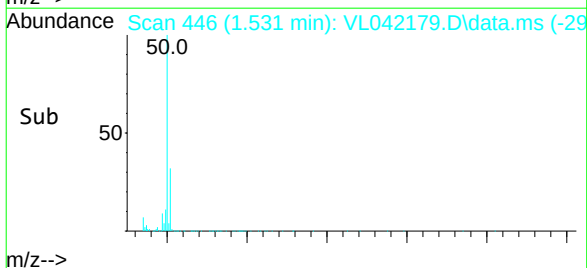
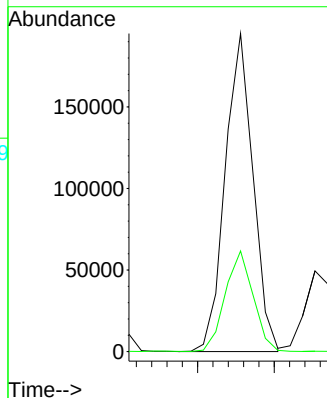
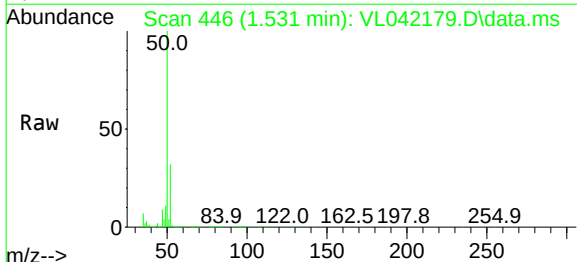
Manual Integrations
APPROVED

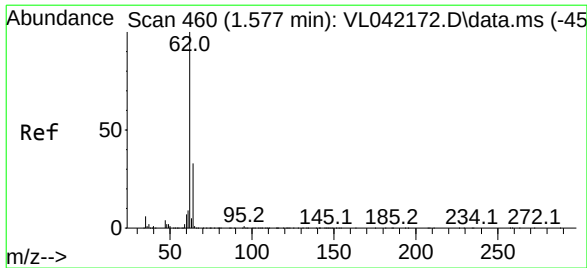
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





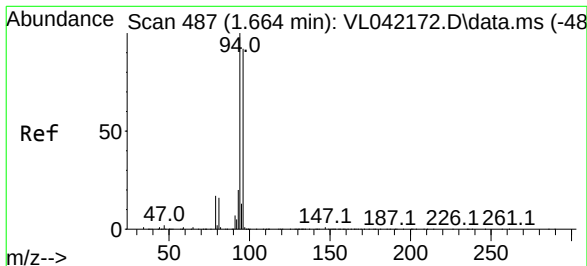
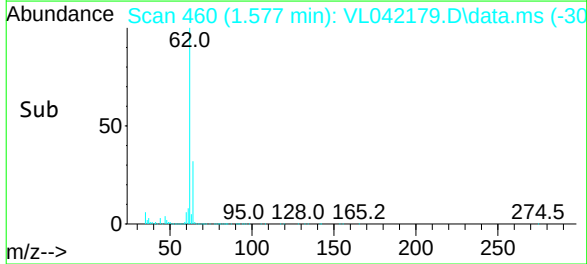
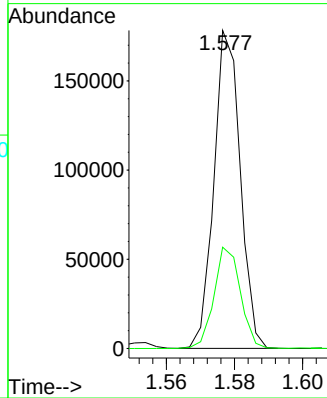
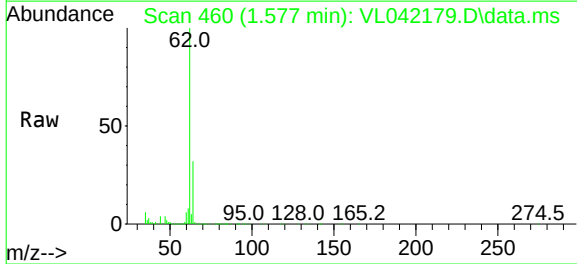
#5
 Vinyl Chloride
 Concen: 8.573 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Instrument : MSVOA_L
 ClientSampleId : ICVVL032725

Tgt Ion: 62 Resp: 95578
 Ion Ratio Lower Upper
 62 100
 64 31.8 26.6 40.0

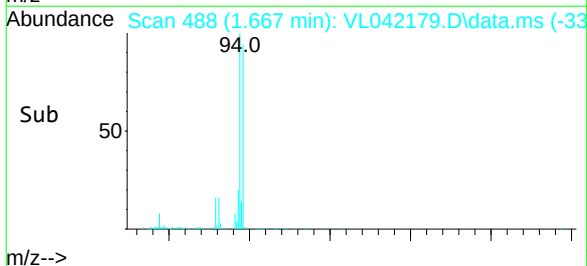
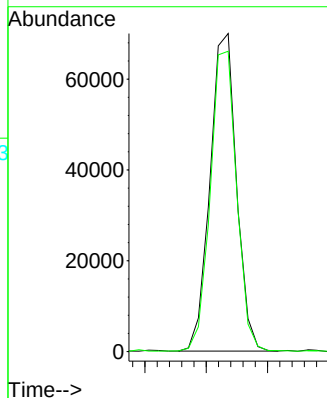
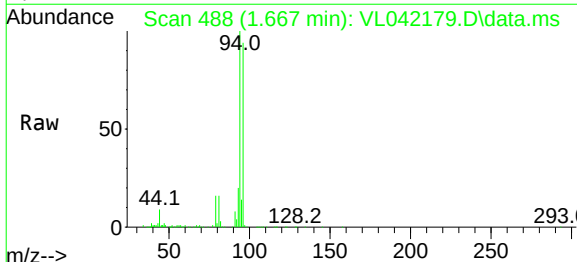
Manual Integrations
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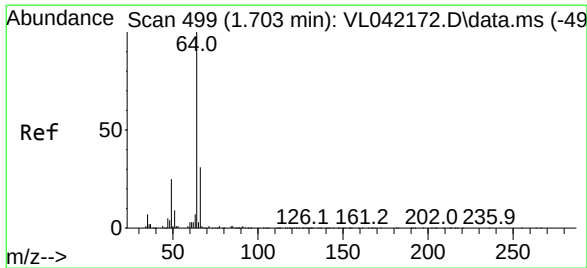
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#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





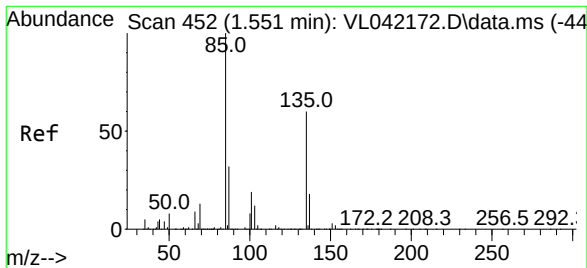
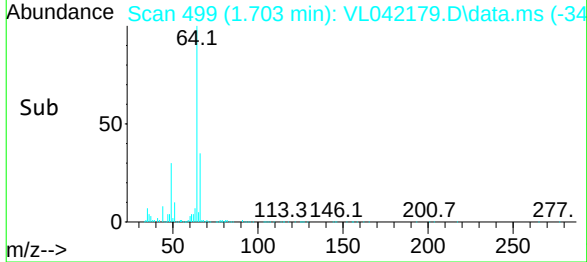
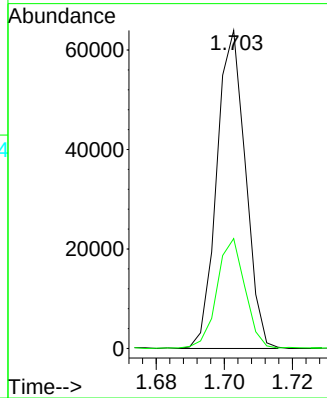
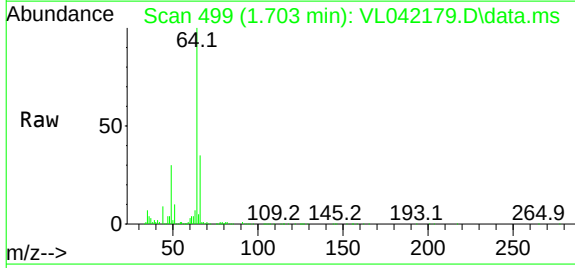
#7
Chloroethane
Concen: 8.856 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument : MSVOA_L
ClientSampleId : ICVVL032725

Tgt Ion: 64 Resp: 37400
Ion Ratio Lower Upper
64 100
66 34.5 25.2 37.8

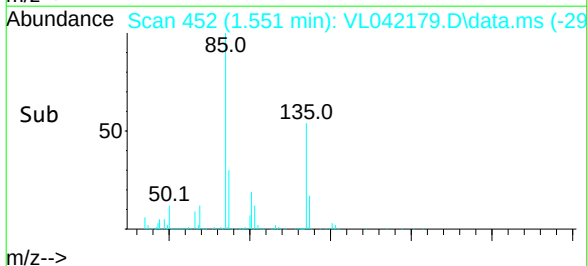
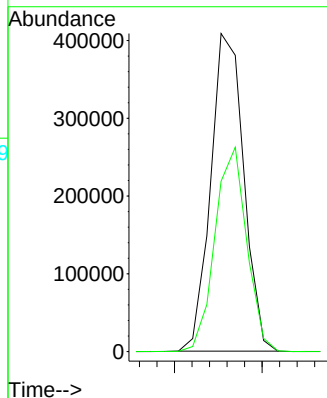
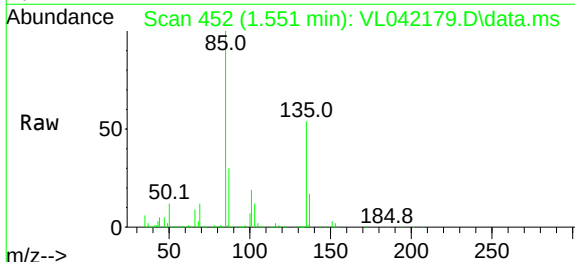
Manual Integrations
APPROVED

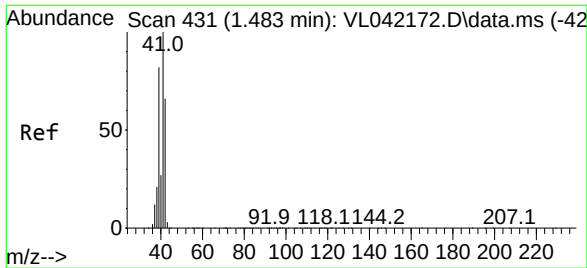
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

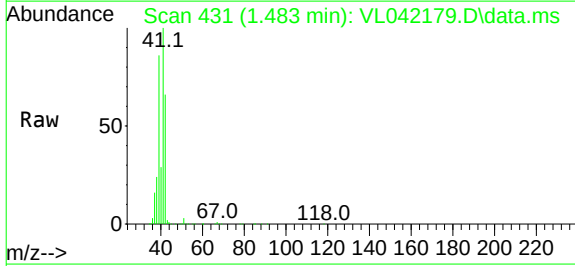
Tgt Ion: 85 Resp: 213819
Ion Ratio Lower Upper
85 100
135 61.9 52.4 78.6





#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

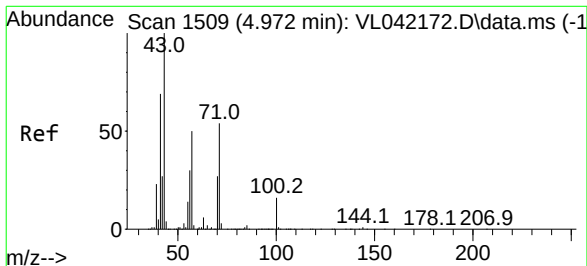
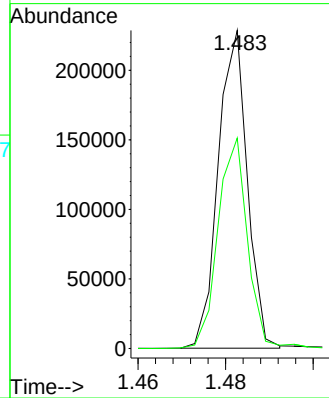
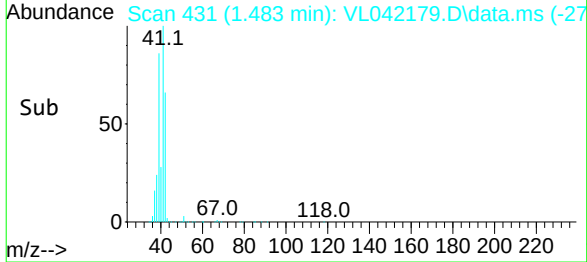
Instrument : MSVOA_L
ClientSampleId : ICVVL032725



Tgt Ion: 41 Resp: 105338
Ion Ratio Lower Upper
41 100
42 68.1 55.4 83.2

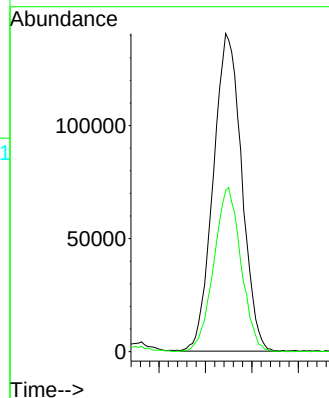
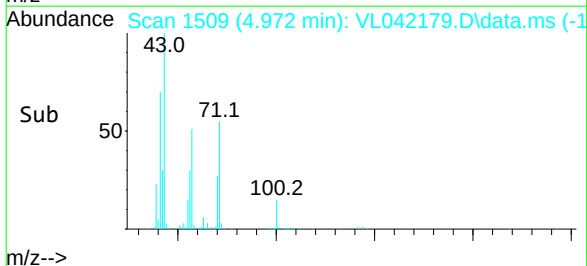
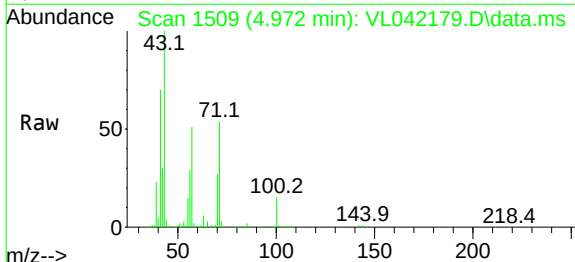
Manual Integrations
APPROVED

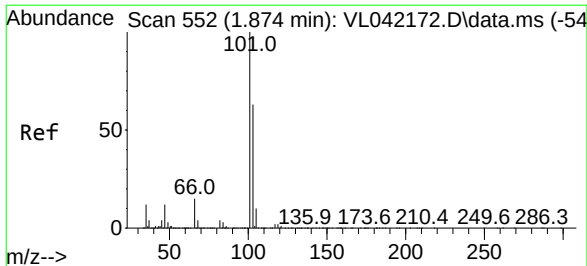
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

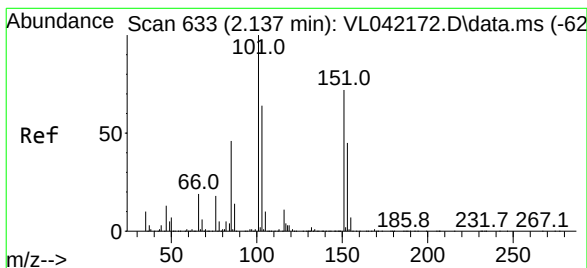
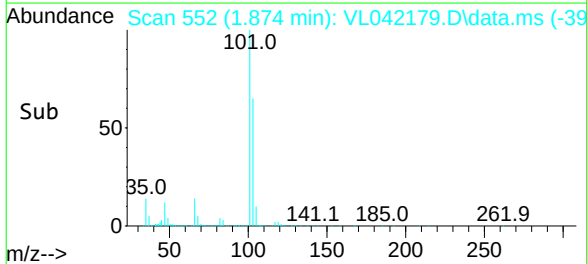
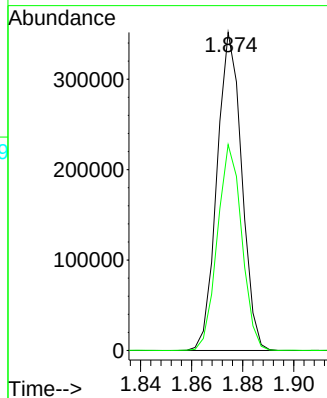
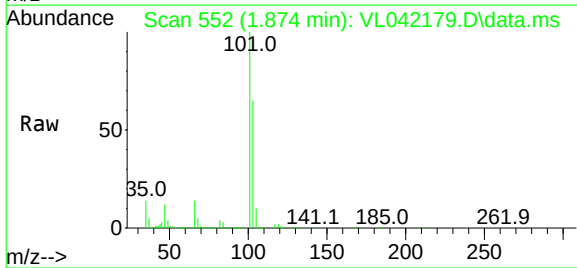
103 64.7 50.2 75.2

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

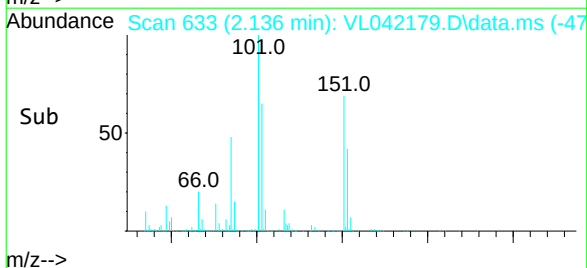
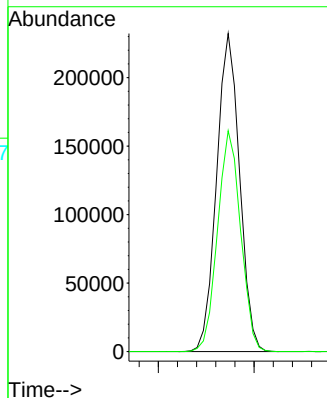
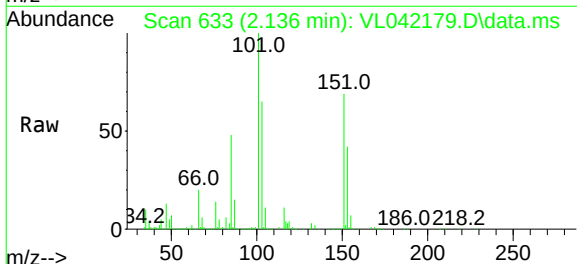
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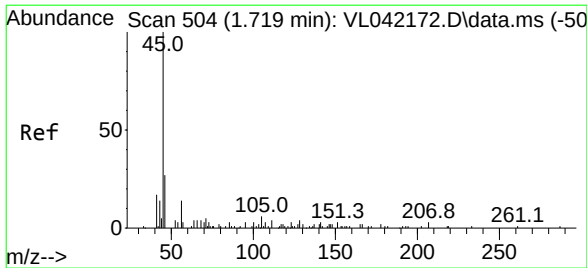
Tgt Ion:101 Resp: 193965

Ion Ratio Lower Upper

101 100

151 69.6 57.1 85.7





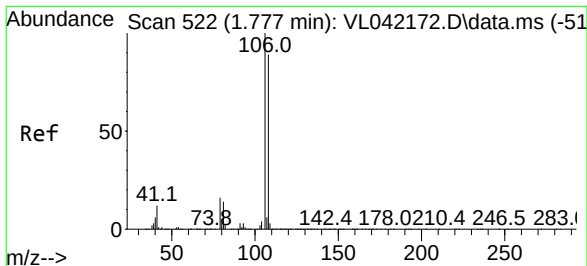
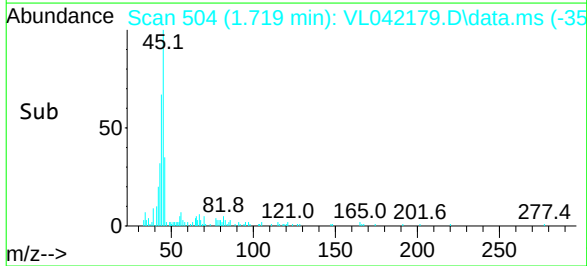
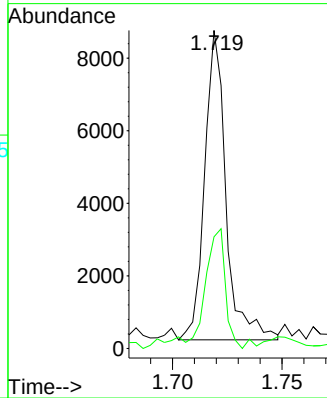
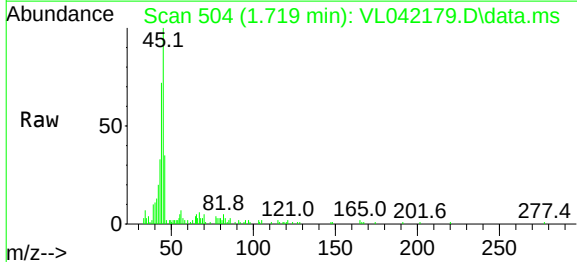
#13
Ethanol
Concen: 5.066 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument : MSVOA_L
ClientSampleId : ICVVL032725

Tgt Ion: 45 Resp: 5773
Ion Ratio Lower Upper
45 100
46 48.5 20.2 80.8

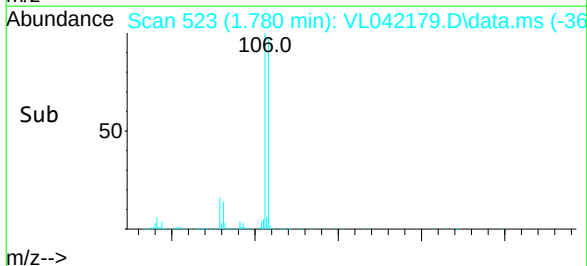
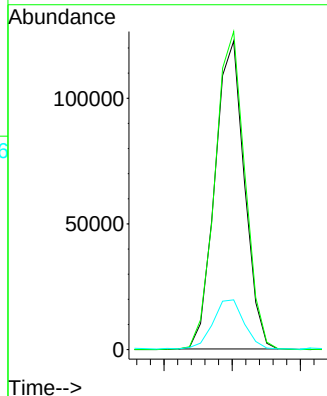
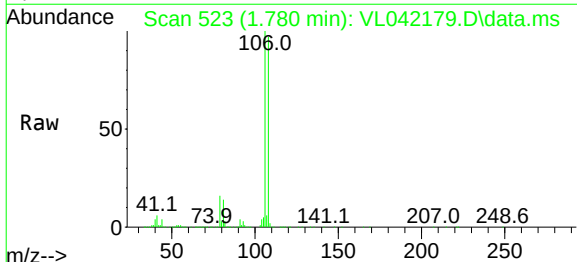
Manual Integrations
APPROVED

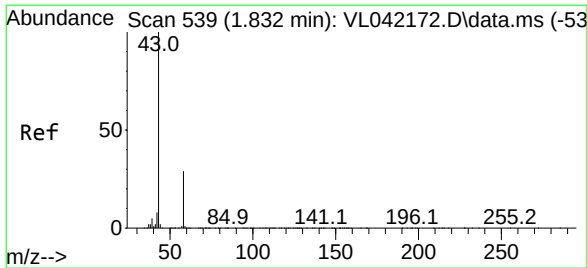
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





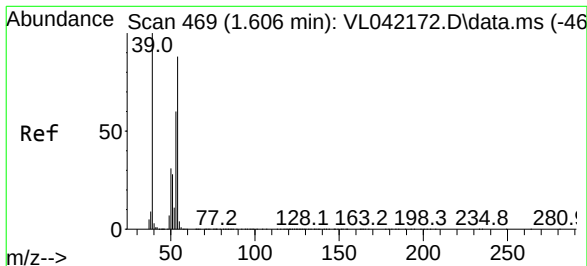
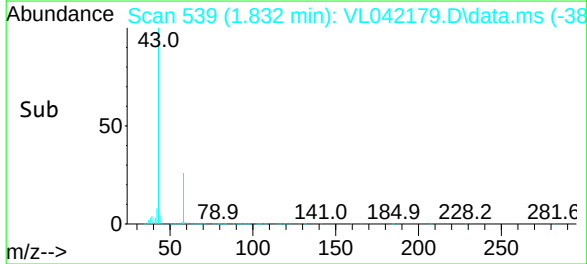
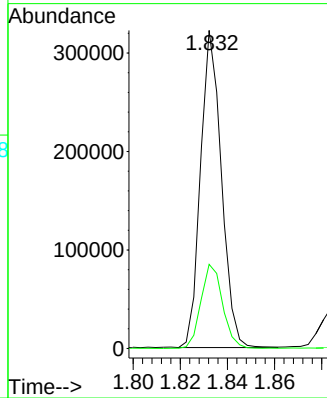
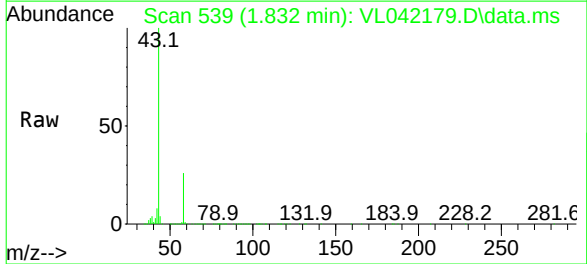
#15
Acetone
Concen: 8.132 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument : MSVOA_L
ClientSampleId : ICVVL032725

Tgt Ion: 43 Resp: 198300
Ion Ratio Lower Upper
43 100
58 27.7 23.2 34.8

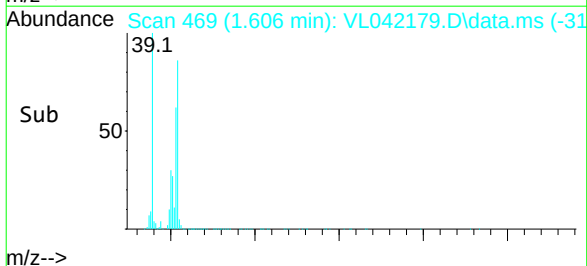
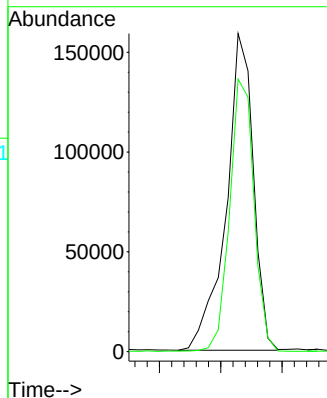
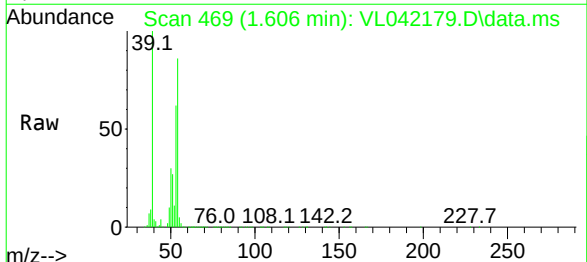
Manual Integrations
APPROVED

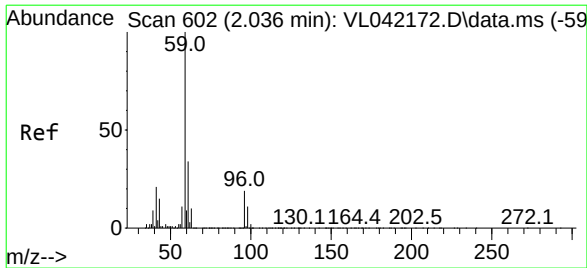
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





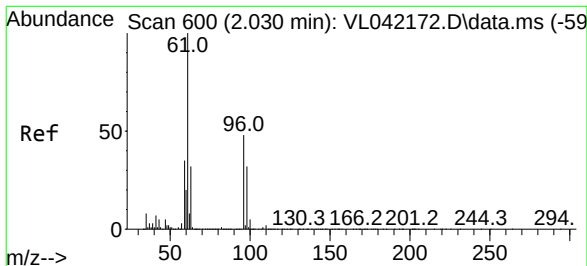
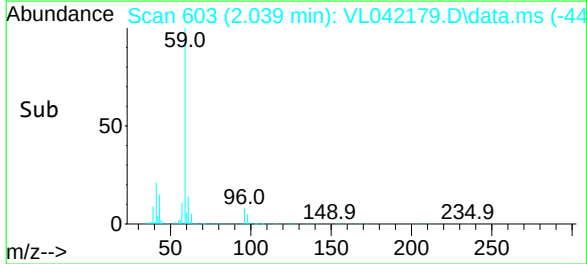
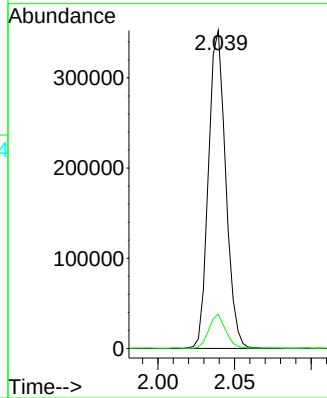
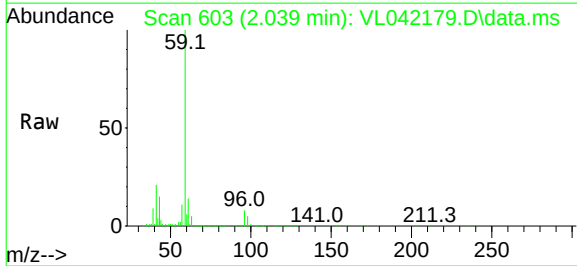
#17
tert-Butyl alcohol
Concen: 9.094 ppbv
RT: 2.039 min Scan# 60
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Tgt Ion: 59 Resp: 276195
Ion Ratio Lower Upper
59 100
57 10.6 8.9 13.3

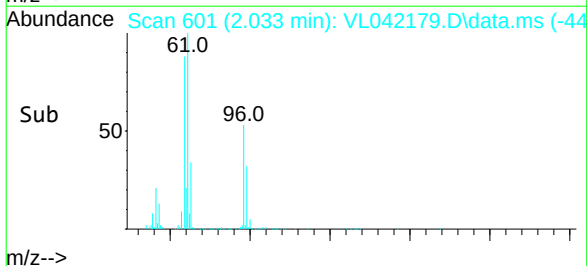
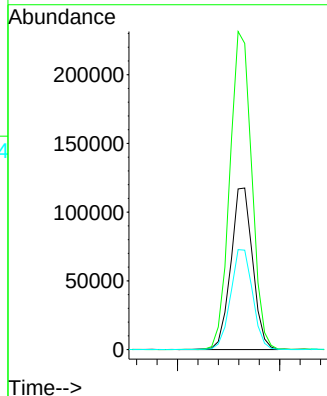
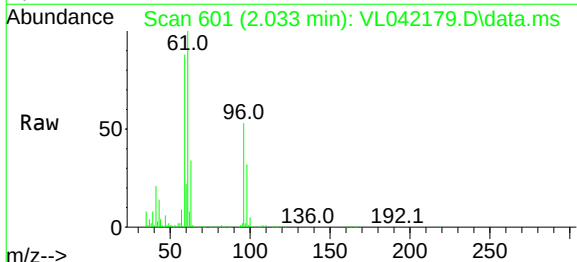
Manual Integrations
APPROVED

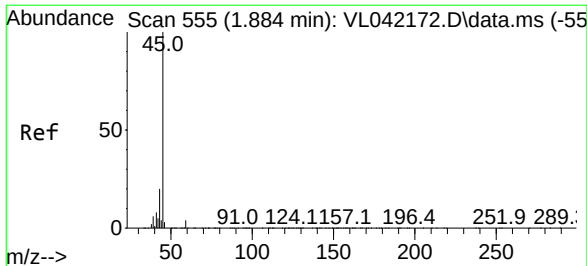
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





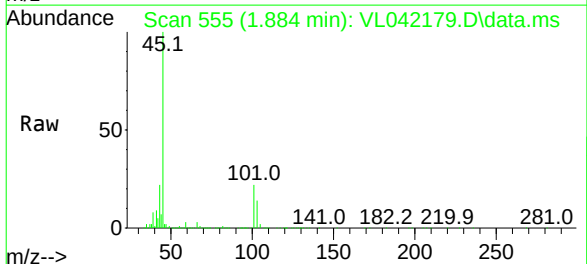
#19
Isopropyl Alcohol
Concen: 8.923 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

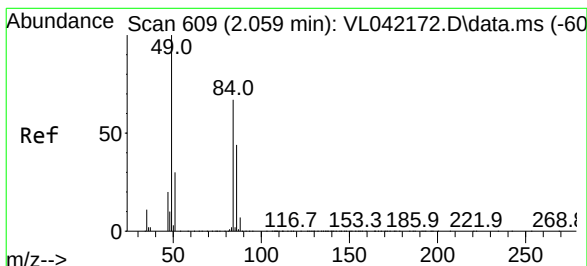
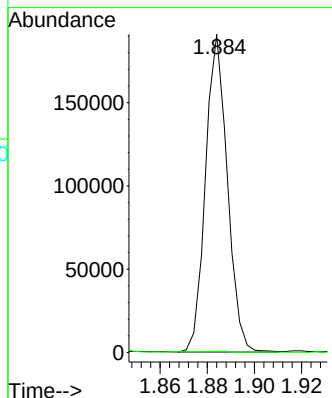
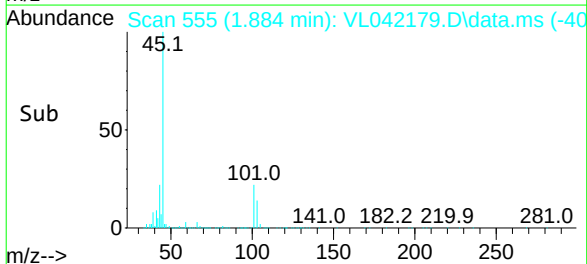
ICVVL032725



Tgt Ion: 45 Resp: 122768
Ion Ratio Lower Upper
45 100
58 44.9 36.9 55.3

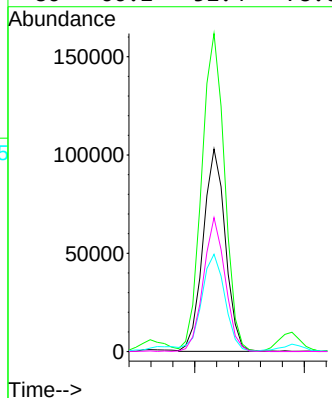
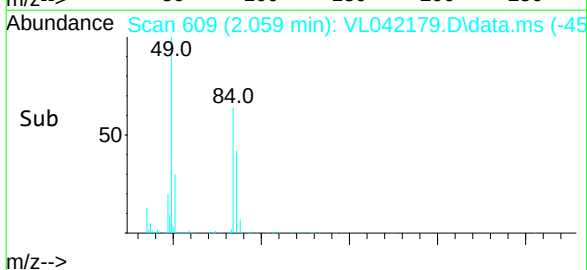
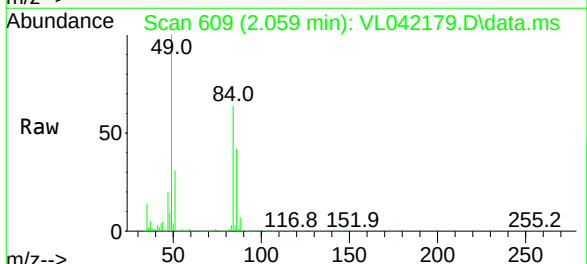
Manual Integrations
APPROVED

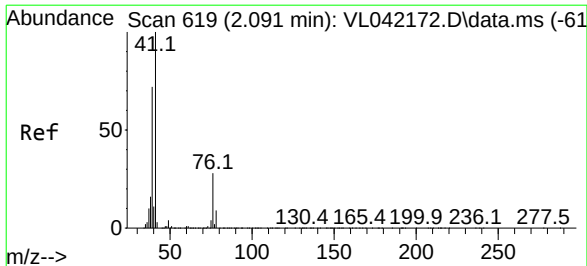
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

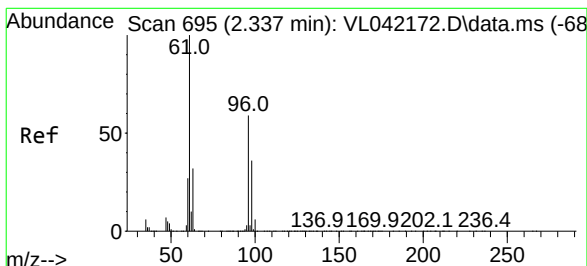
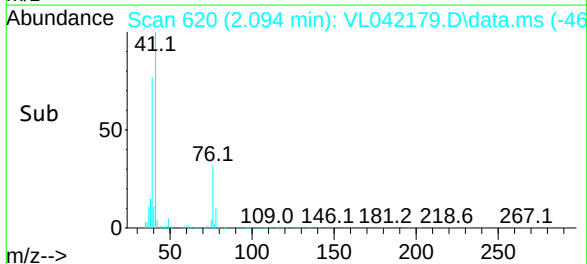
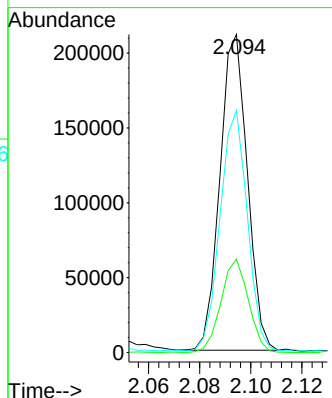
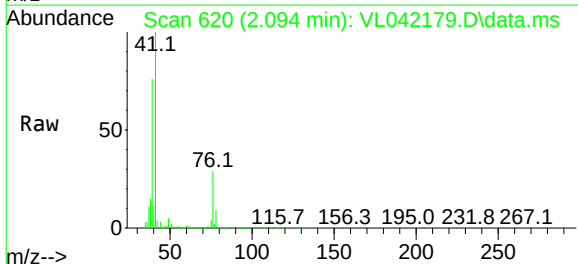
ClientSampleId :

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

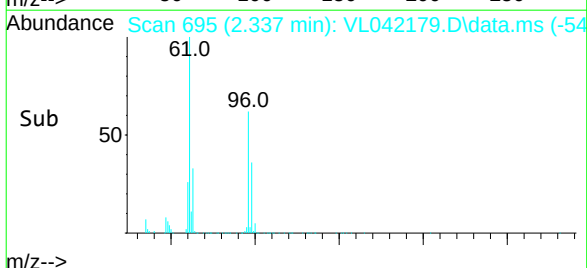
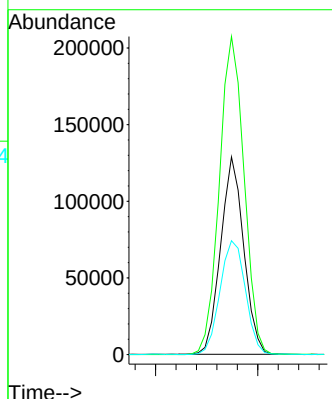
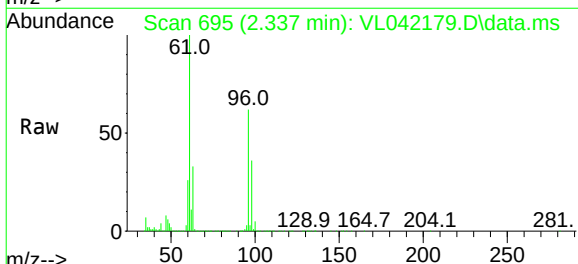
RT: 2.337 min Scan# 695

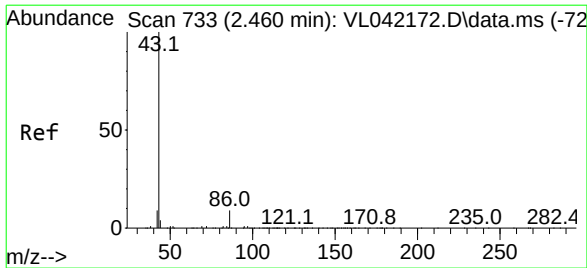
Delta R.T. -0.000 min

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

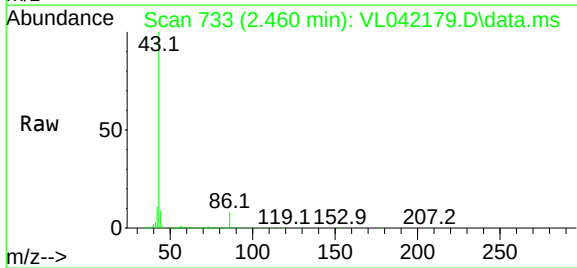
Acq: 27 Mar 2025 12:23

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#

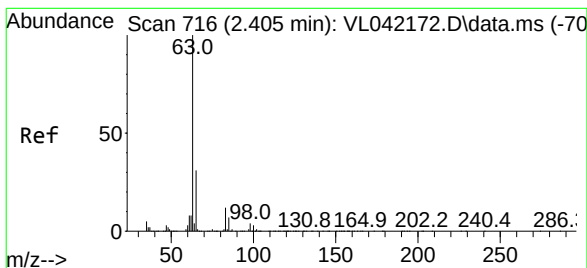
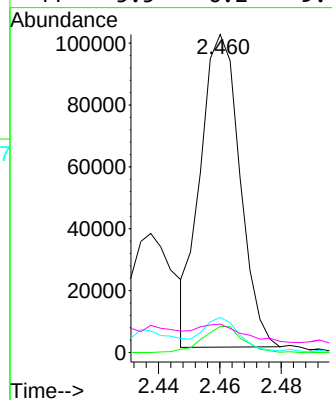
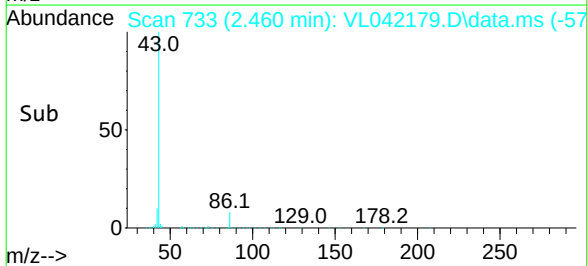
44 5.5 6.2 9.4#

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

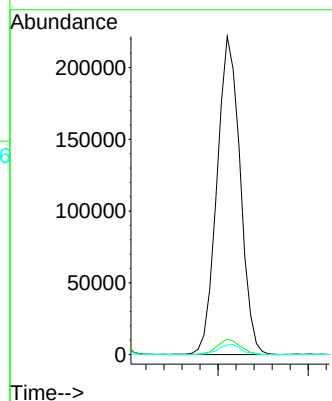
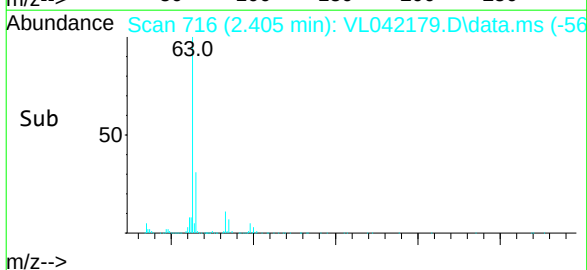
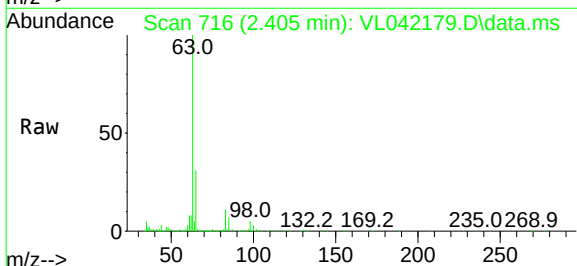
Tgt Ion: 63 Resp: 197968

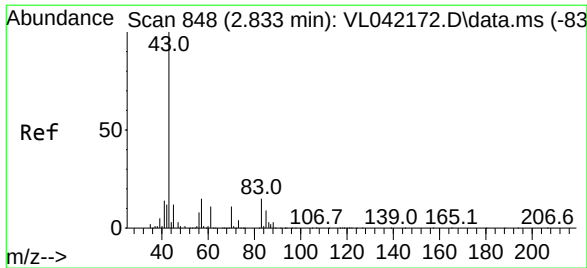
Ion Ratio Lower Upper

63 100

98 4.8 2.3 6.8

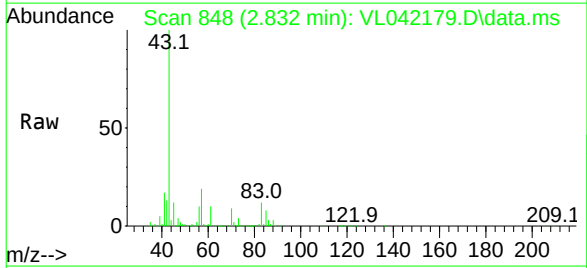
100 3.0 1.6 4.7





#25
Ethyl Acetate
Concen: 9.364 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

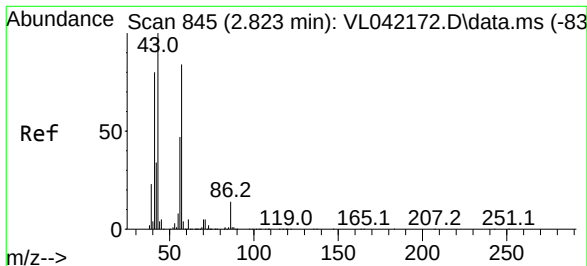
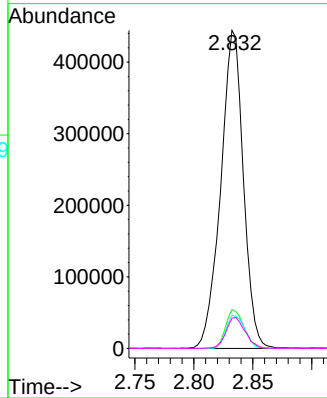
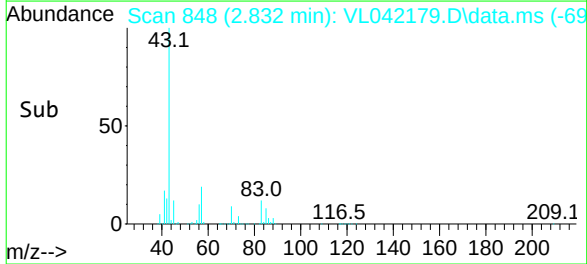
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725



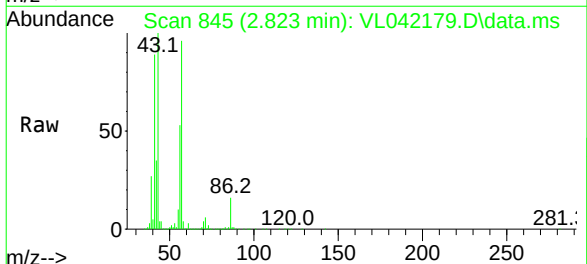
Tgt Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.2	12.2
61	8.7	7.3	10.9
70	8.4	7.2	10.8

Manual Integrations
APPROVED

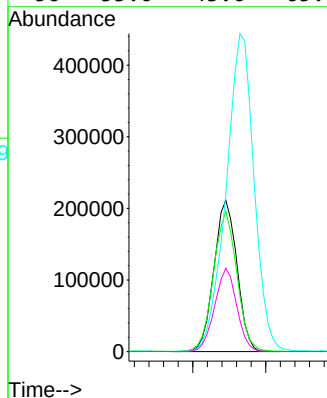
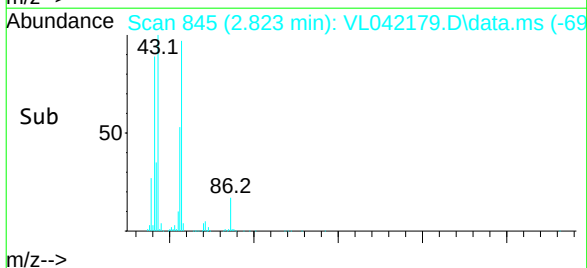
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

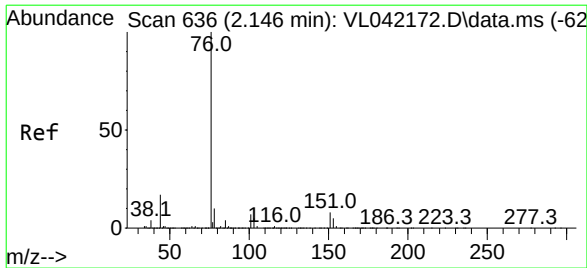


#26
Hexane
Concen: 9.455 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



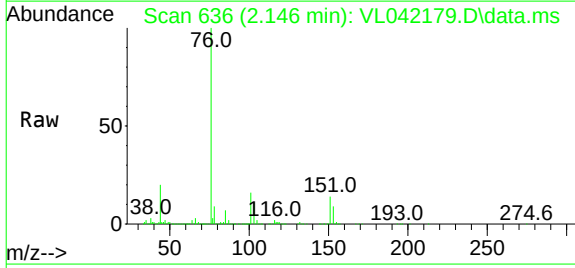
Tgt Ion	Ratio	Lower	Upper
57	100		
41	95.2	76.6	114.8
43	256.8	207.8	311.8
56	53.0	43.6	65.4





#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

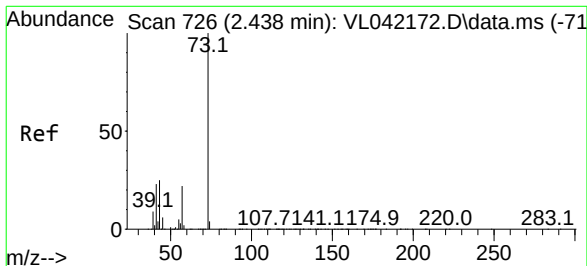
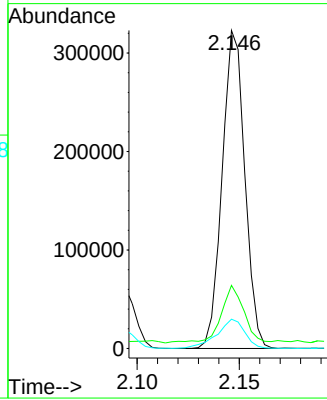
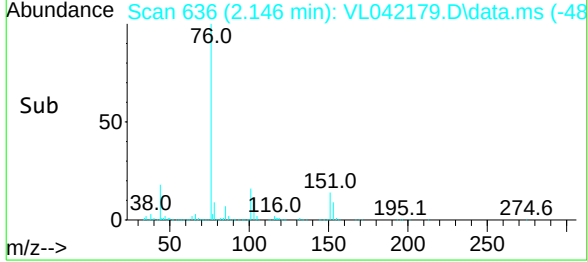
Instrument : MSVOA_L
ClientSampleId : ICVVL032725



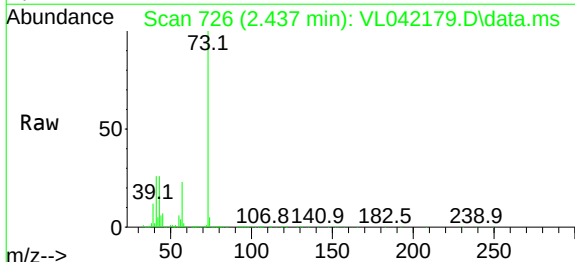
Tgt Ion: 76 Resp: 248834
Ion Ratio Lower Upper
76 100
44 20.1 14.7 22.1
78 11.3 9.3 13.9

Manual Integrations
APPROVED

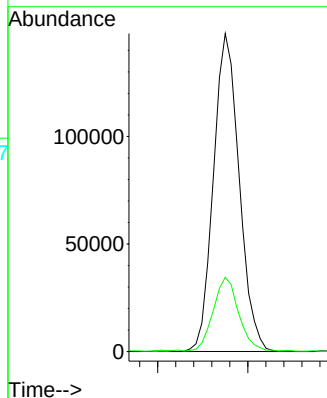
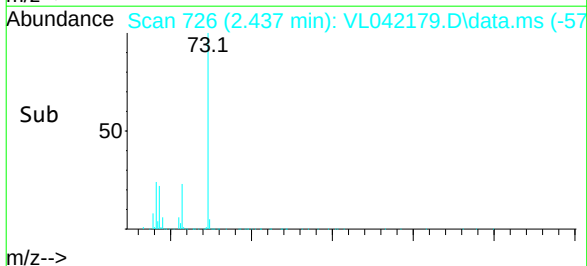
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

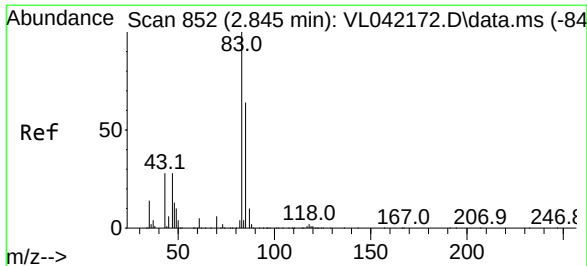


#28
Methyl tert-Butyl Ether
Concen: 9.624 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



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

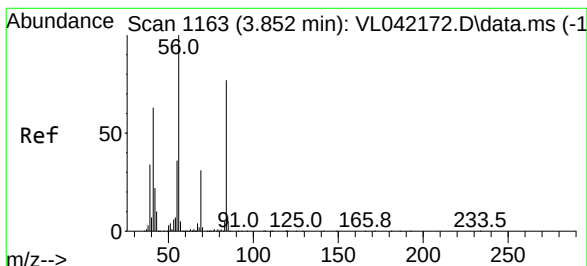
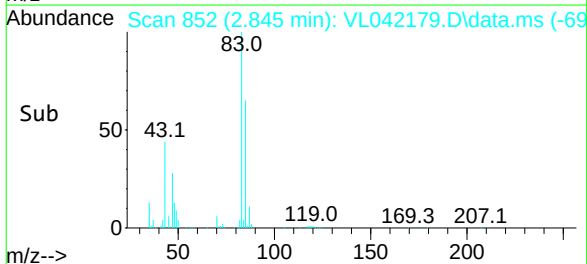
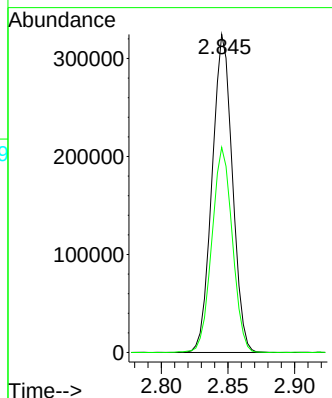
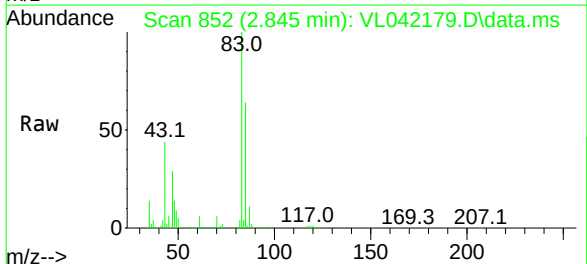
85 64.5 51.4 77.2

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

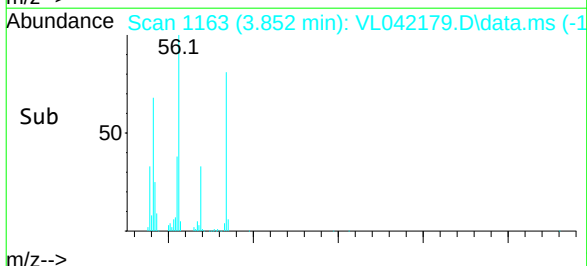
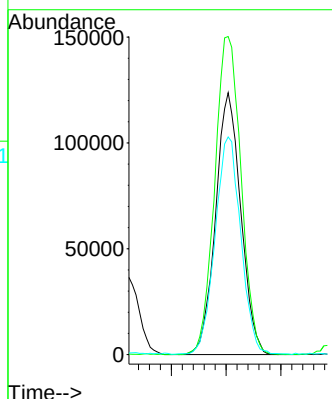
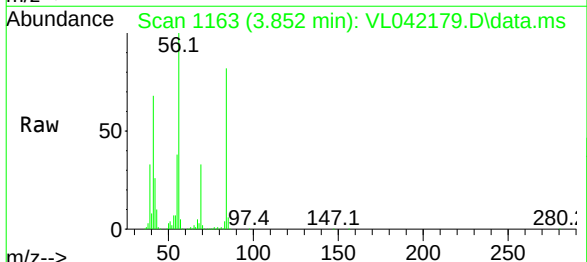
Tgt Ion: 84 Resp: 197897

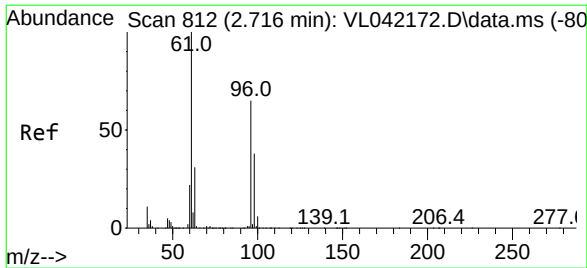
Ion Ratio Lower Upper

84 100

56 126.8 102.8 154.2

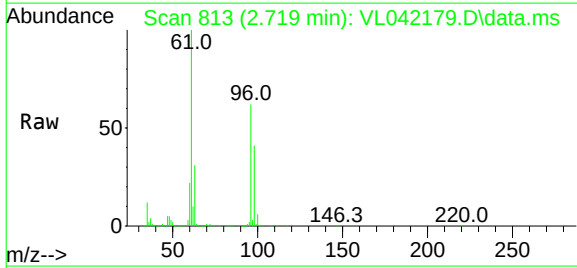
41 84.6 66.5 99.7





#31
 cis-1,2-Dichloroethene
 Concen: 9.449 ppbv
 RT: 2.719 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

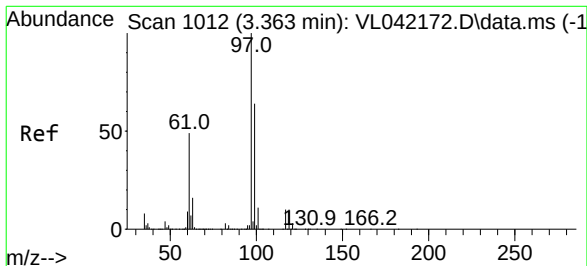
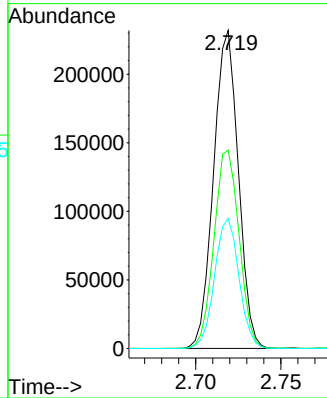
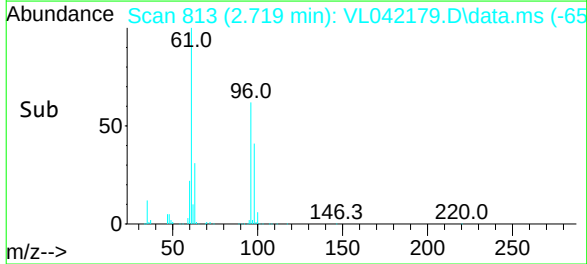
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725



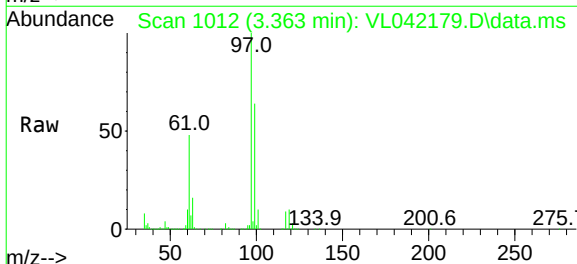
Tgt Ion: 61 Resp: 234487
 Ion Ratio Lower Upper
 61 100
 96 62.3 51.8 77.8
 98 40.9 30.6 46.0

Manual Integrations
 APPROVED

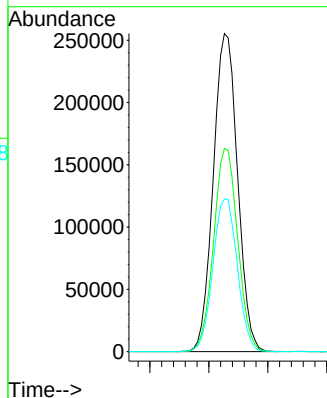
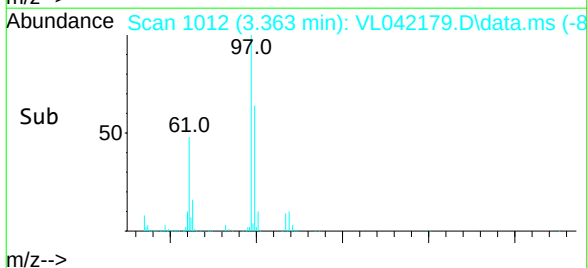
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

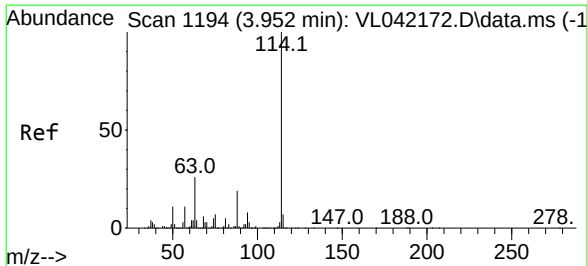


#32
 1,1,1-Trichloroethane
 Concen: 8.921 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23



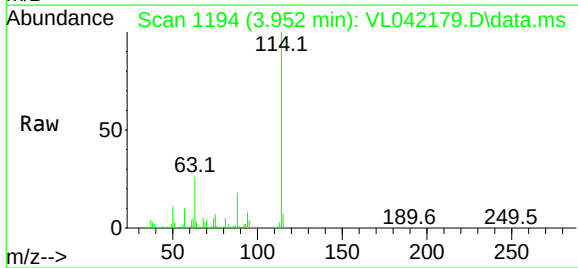
Tgt Ion: 97 Resp: 365364
 Ion Ratio Lower Upper
 97 100
 99 63.4 51.5 77.3
 61 48.4 38.7 58.1





#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

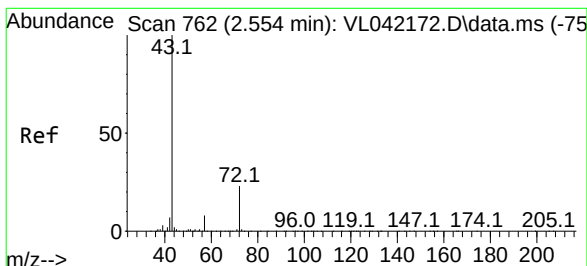
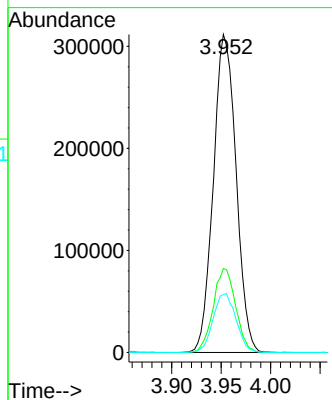
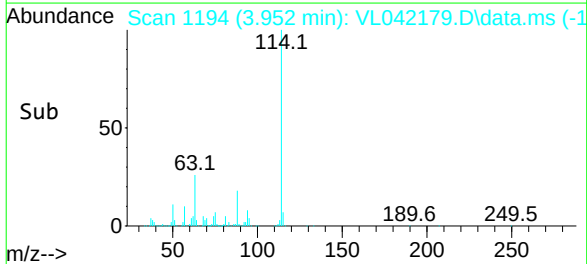
Instrument : MSVOA_L
ClientSampleId : ICVVL032725



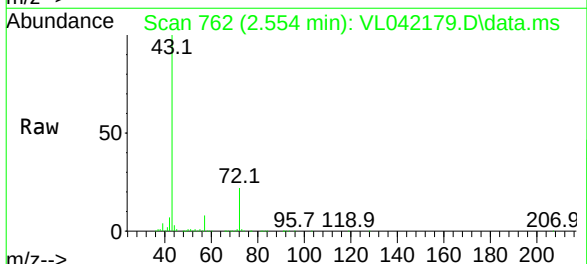
Tgt Ion: 114 Resp: 498105
Ion Ratio Lower Upper
114 100
63 26.1 20.7 31.1
88 18.7 15.0 22.4

Manual Integrations
APPROVED

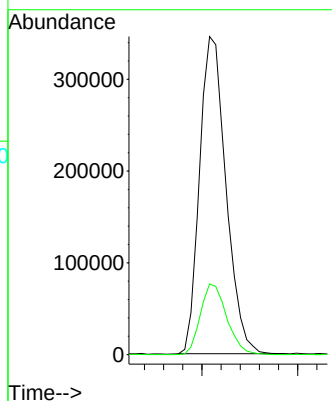
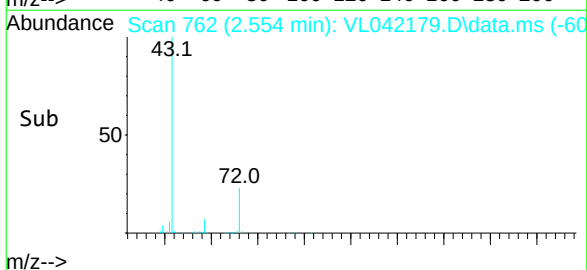
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

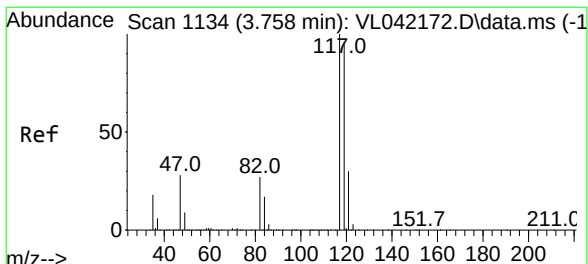


#34
2-Butanone
Concen: 9.171 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



Tgt Ion: 43 Resp: 331236
Ion Ratio Lower Upper
43 100
72 22.2 18.2 27.2





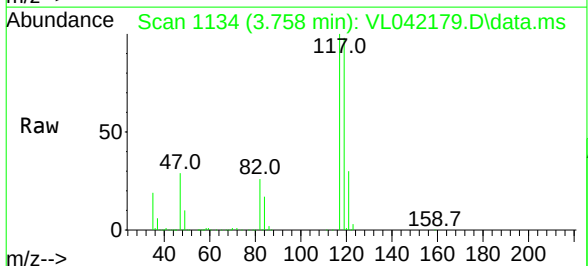
#35
Carbon Tetrachloride
Concen: 9.339 ppbv
RT: 3.758 min Scan# 111
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

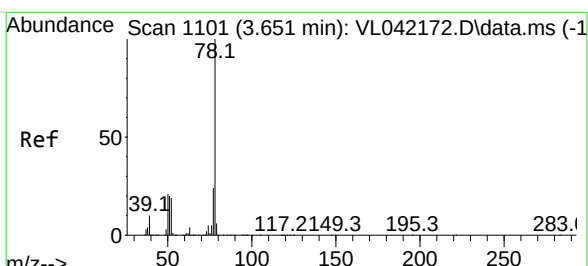
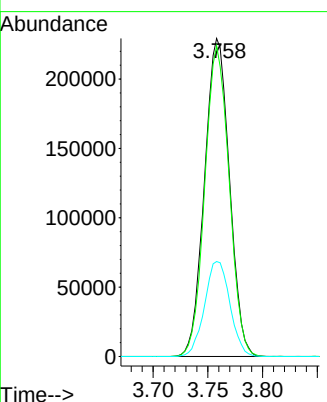
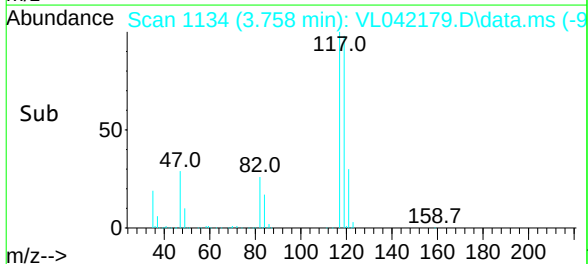
ICVVL032725



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

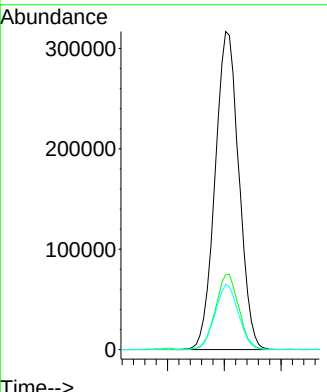
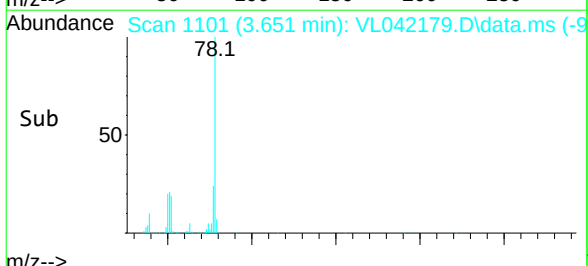
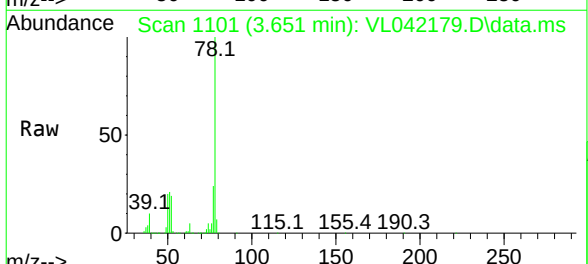
Manual Integrations
APPROVED

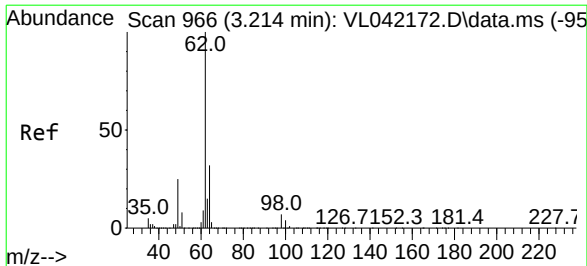
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

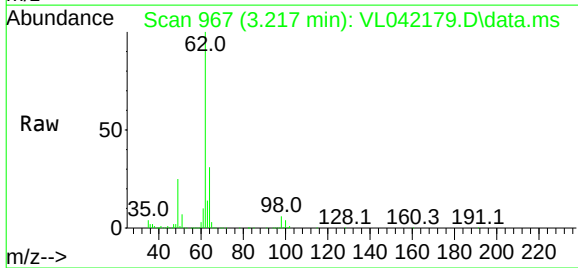
Tgt Ion:	78	Resp:	461261
Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.1	28.7
50	20.4	16.6	24.8





#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

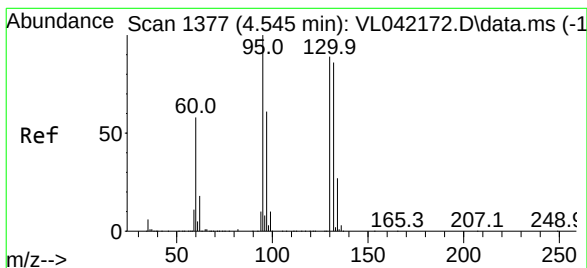
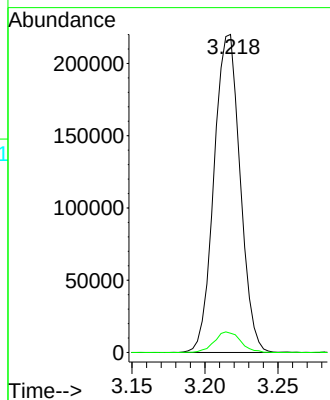
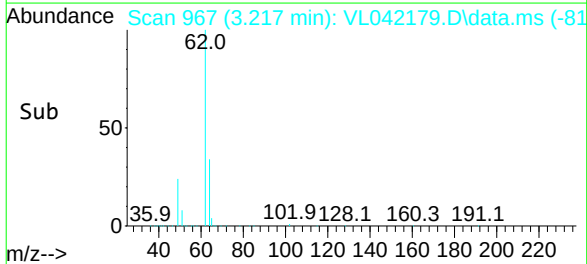
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725



Tgt Ion: 62 Resp: 273559
Ion Ratio Lower Upper
62 100
98 6.6 5.4 8.2

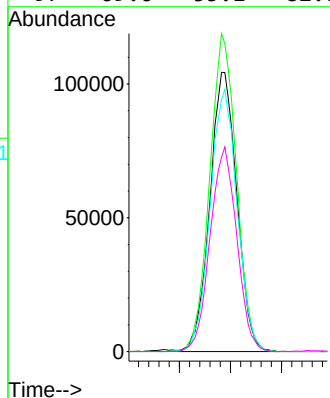
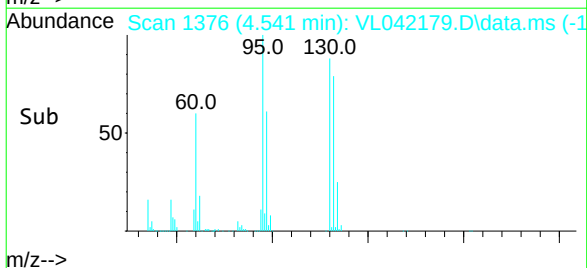
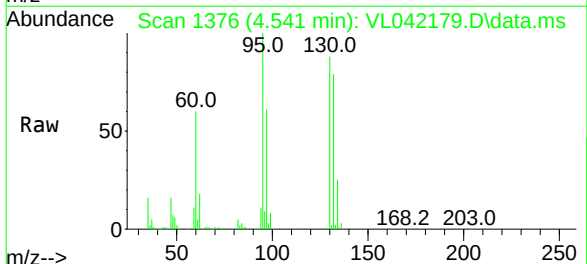
Manual Integrations
APPROVED

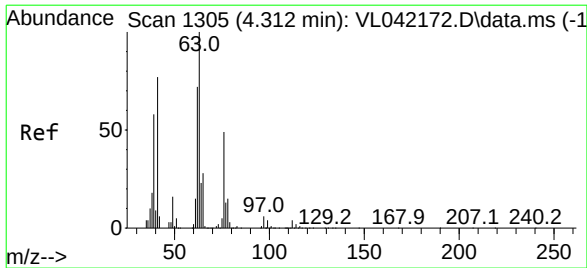
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

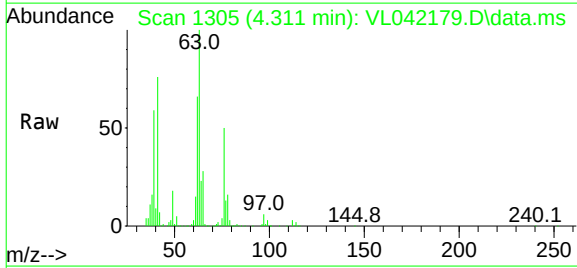
Tgt Ion:130 Resp: 191746
Ion Ratio Lower Upper
130 100
95 113.9 89.8 134.8
132 90.3 77.4 116.2
97 69.6 55.1 82.7





#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

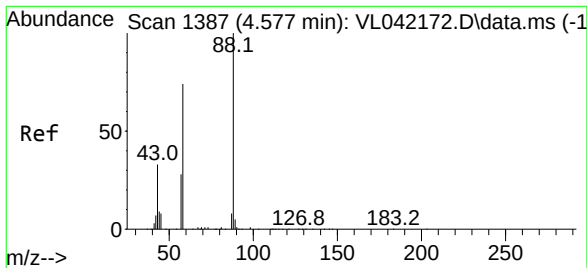
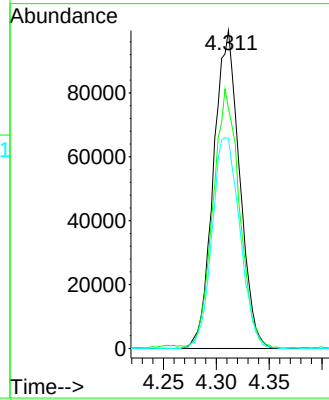
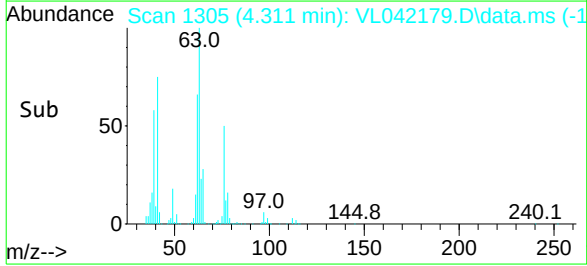
Instrument : MSVOA_L
ClientSampleId : ICVVL032725



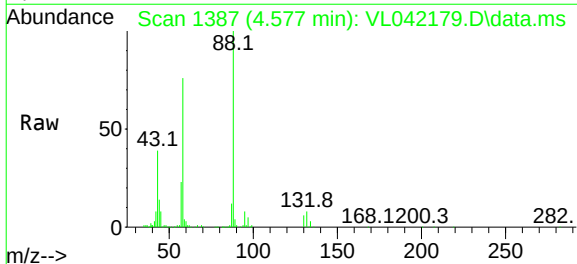
Tgt Ion: 63 Resp: 170839
Ion Ratio Lower Upper
63 100
41 75.3 61.7 92.5
62 66.0 57.6 86.4

Manual Integrations
APPROVED

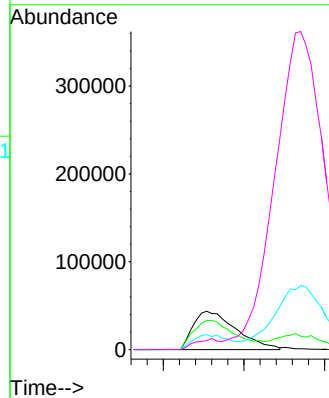
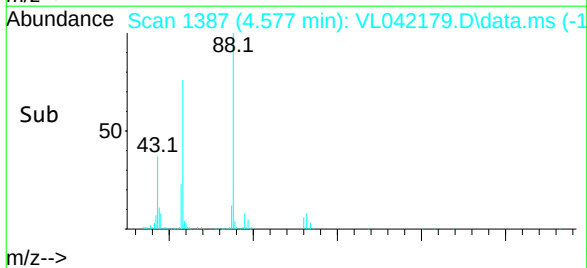
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

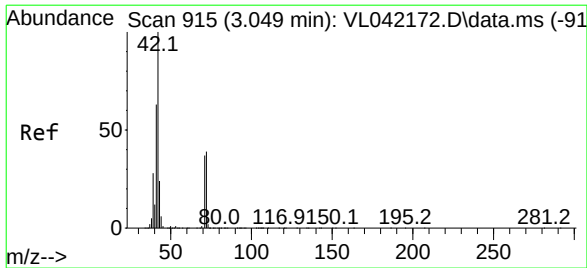


#40
1,4-Dioxane
Concen: 8.443 ppbv
RT: 4.577 min Scan# 1387
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



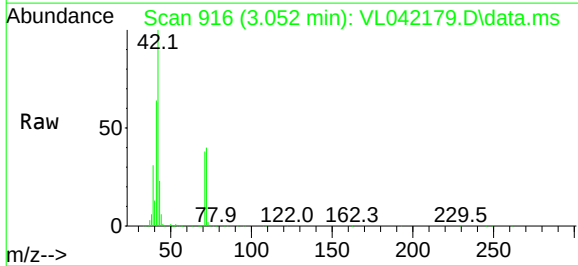
Tgt Ion: 88 Resp: 80592
Ion Ratio Lower Upper
88 100
58 76.2 62.7 94.1
43 31.4 23.0 34.4
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 9.431 ppbv
RT: 3.052 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

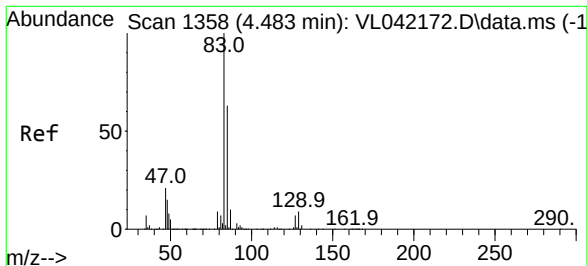
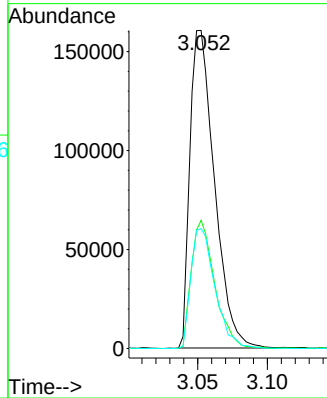
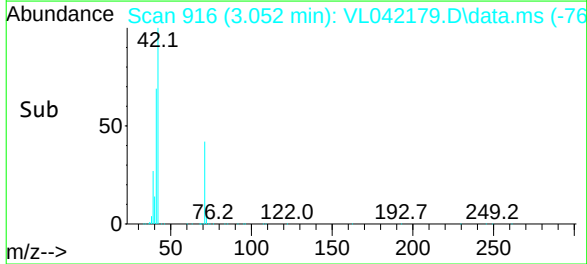
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725



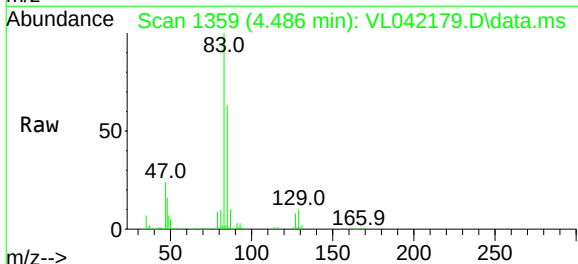
Tgt Ion: 42 Resp: 196163
Ion Ratio Lower Upper
42 100
72 38.9 31.4 47.0
71 37.2 30.2 45.4

Manual Integrations
APPROVED

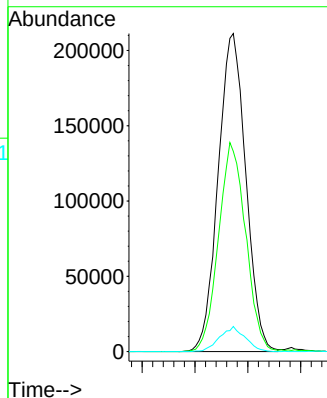
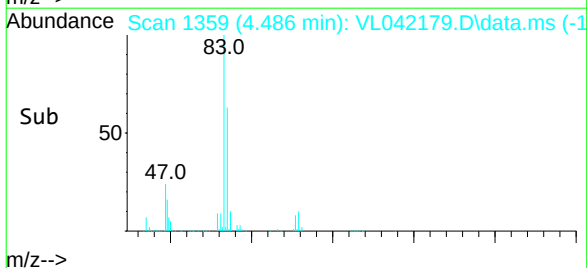
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

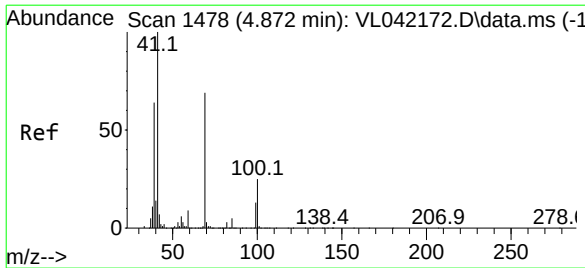


#42
Bromodichloromethane
Concen: 9.853 ppbv
RT: 4.486 min Scan# 1359
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



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





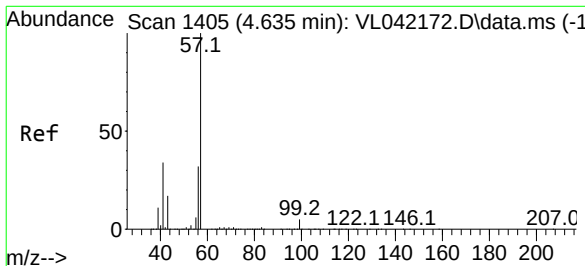
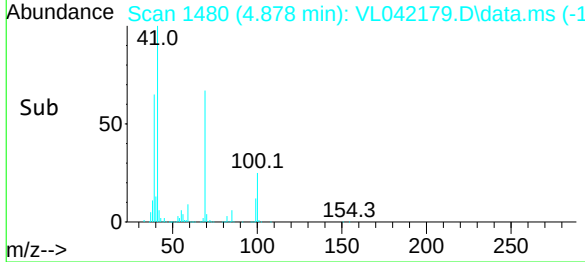
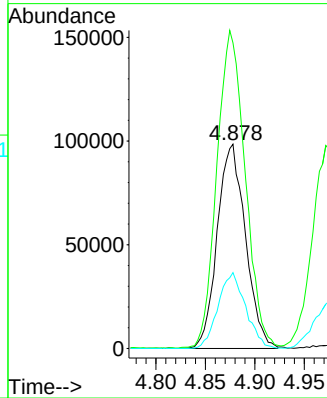
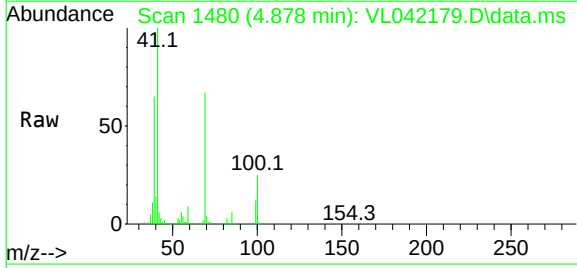
#43
Methyl Methacrylate
Concen: 9.344 ppbv
RT: 4.878 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

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

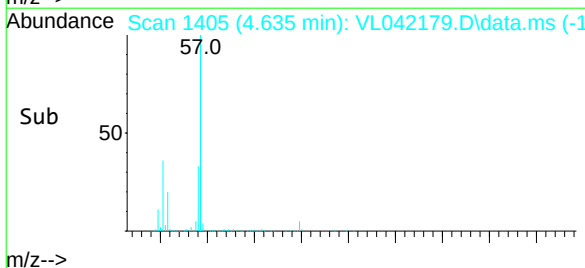
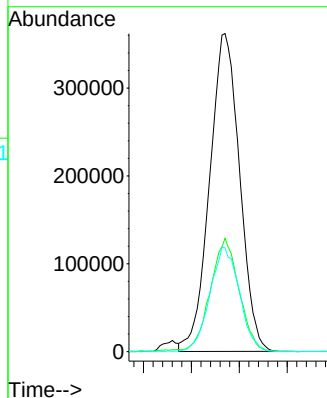
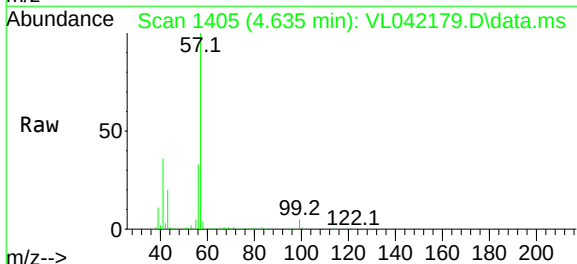
Manual Integrations
APPROVED

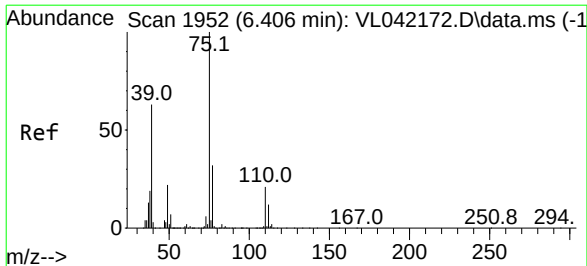
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

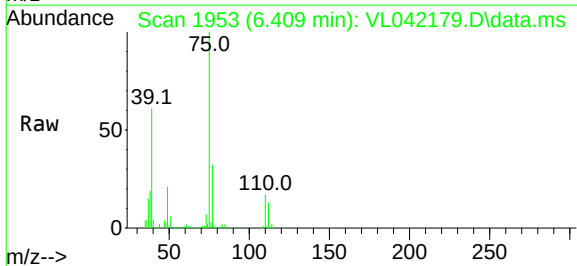
Tgt Ion: 57 Resp: 787400
Ion Ratio Lower Upper
57 100
41 34.3 26.8 40.2
56 32.5 25.6 38.4





#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

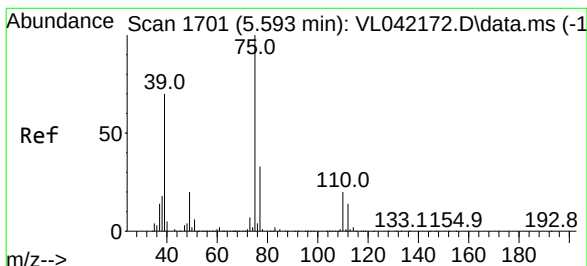
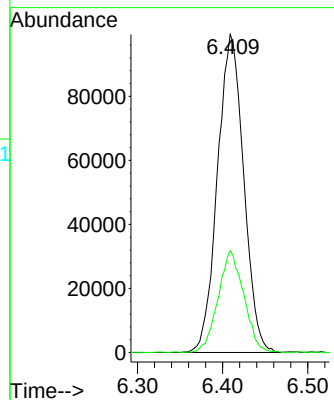
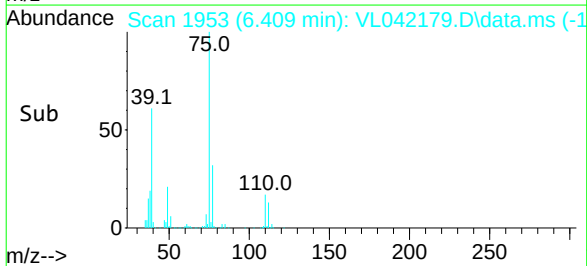
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725



Tgt Ion: 75 Resp: 212335
Ion Ratio Lower Upper
75 100
77 32.0 26.0 39.0

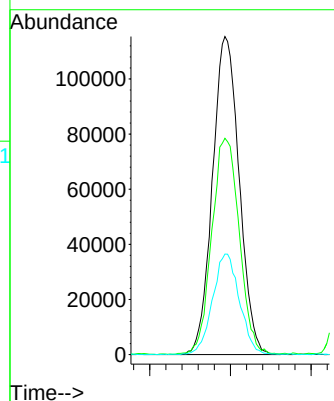
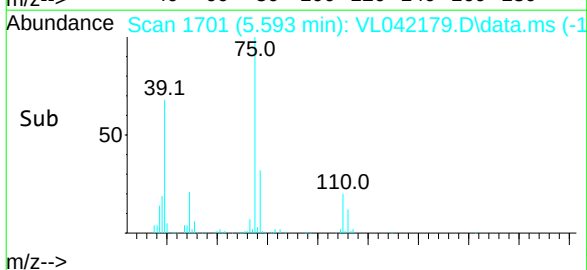
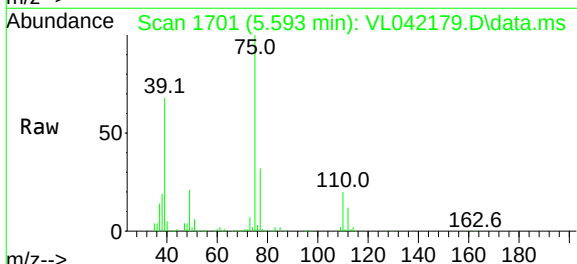
Manual Integrations
APPROVED

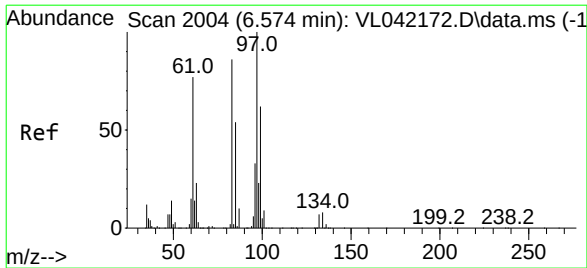
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

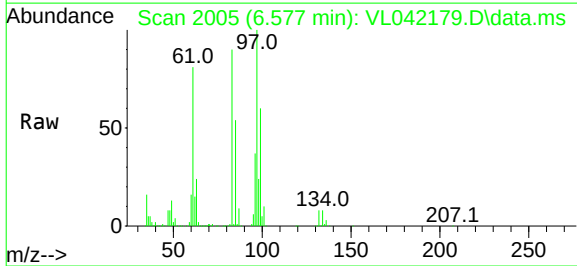
Tgt Ion: 75 Resp: 265101
Ion Ratio Lower Upper
75 100
39 67.8 55.8 83.6
77 31.6 26.0 39.0





#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

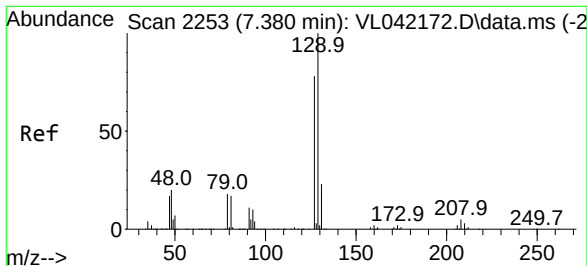
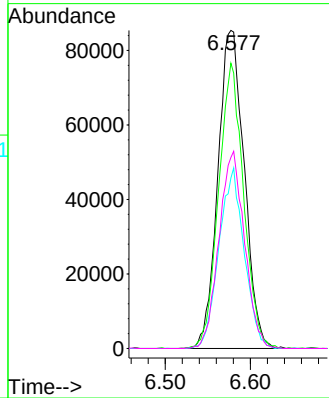
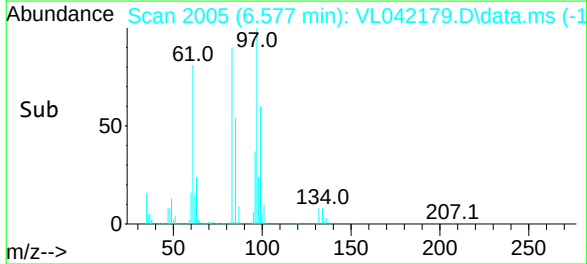
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725



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

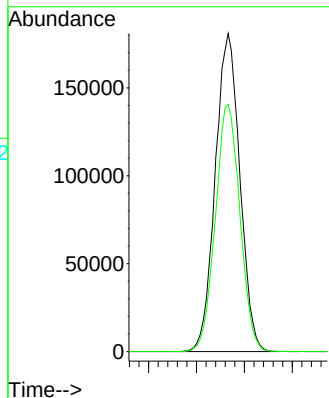
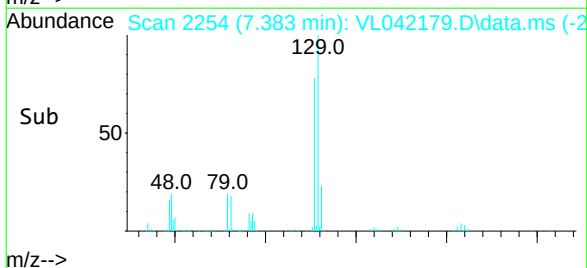
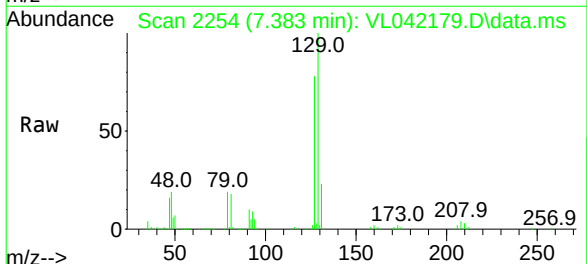
Manual Integrations
APPROVED

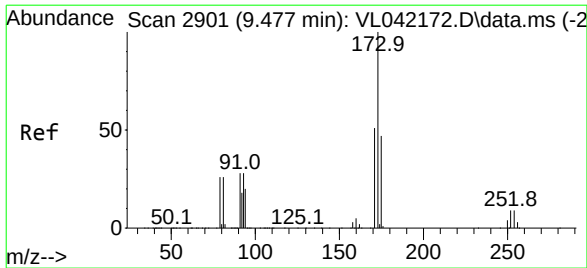
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





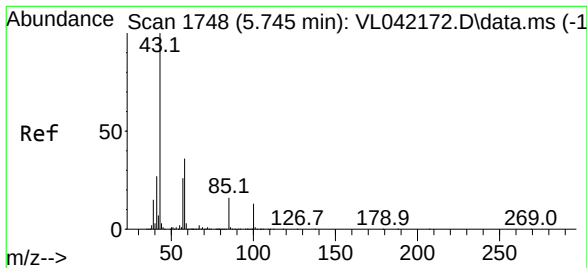
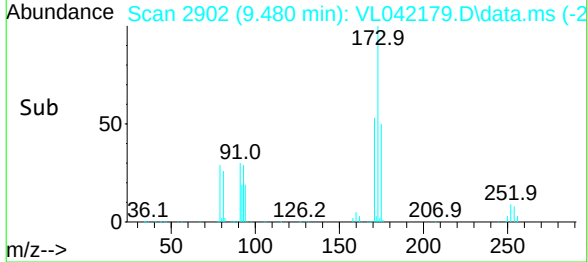
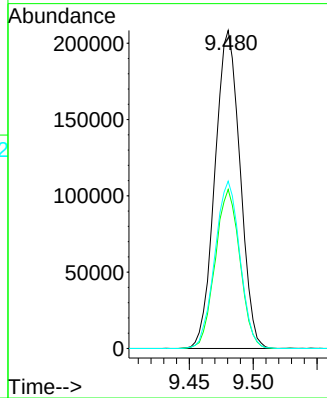
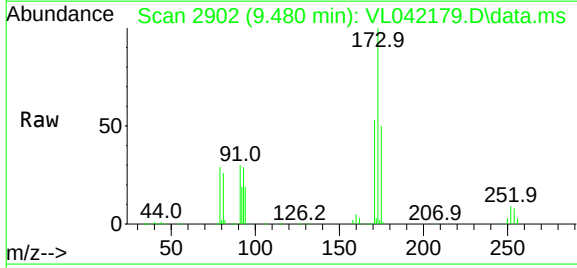
#49
Bromoform
Concen: 9.858 ppbv
RT: 9.480 min Scan# 2901
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

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

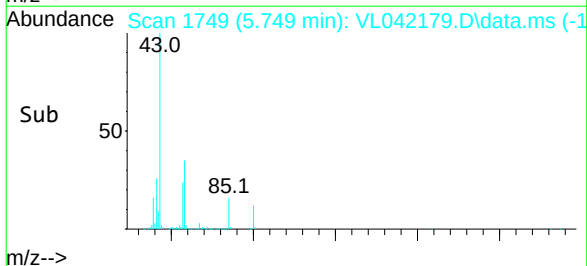
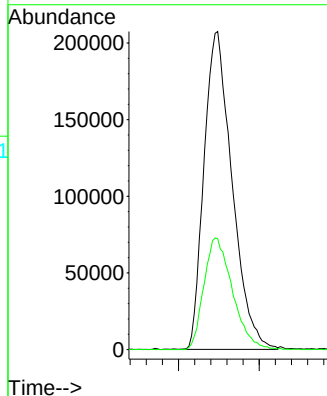
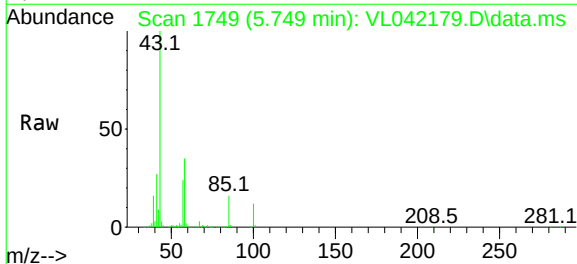
Manual Integrations
APPROVED

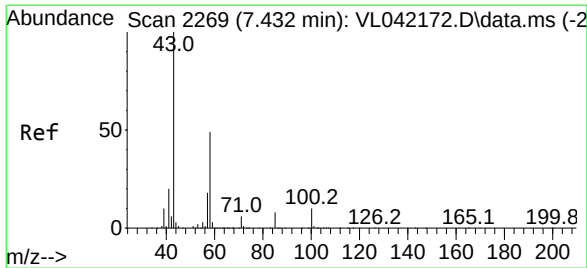
Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025



#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

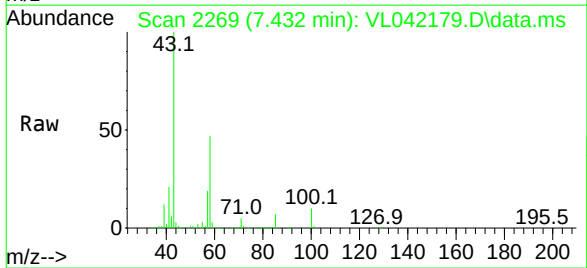
Tgt Ion: 43 Resp: 500791
Ion Ratio Lower Upper
43 100
58 35.8 29.0 43.6





#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

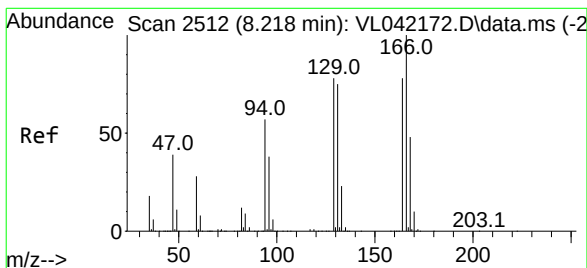
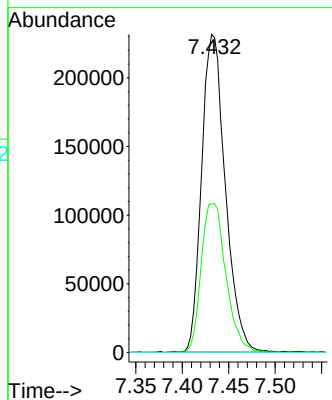
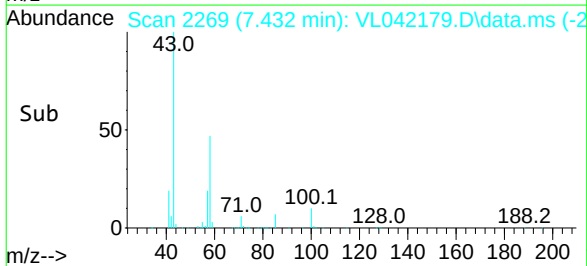
Instrument : MSVOA_L
ClientSampleId : ICVVL032725



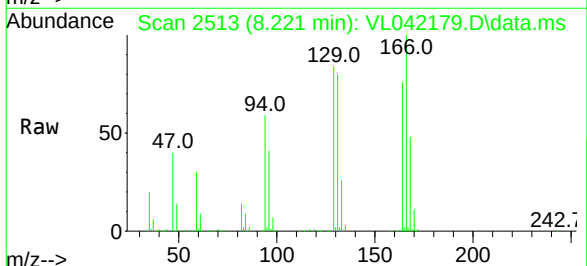
Tgt Ion: 43 Resp: 410889
Ion Ratio Lower Upper
43 100
58 48.9 39.7 59.5
98 0.0 0.1 0.1

Manual Integrations
APPROVED

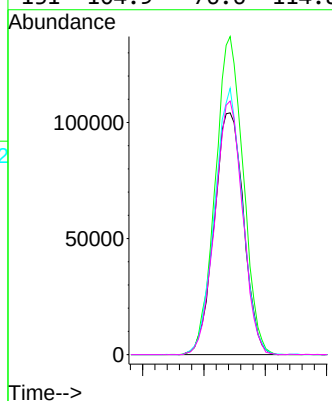
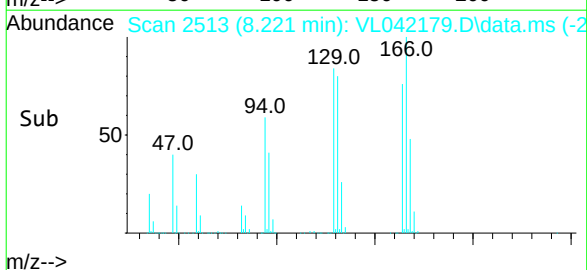
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

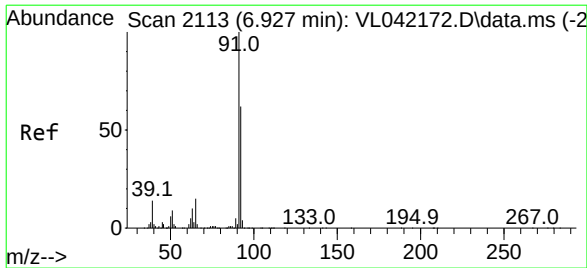


#52
Tetrachloroethene
Concen: 8.855 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



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

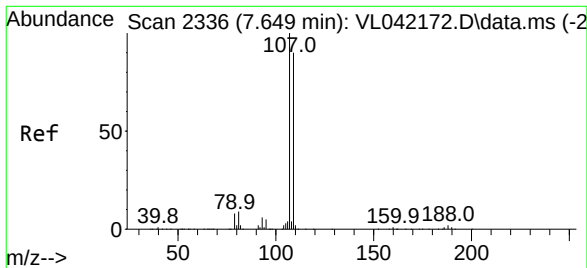
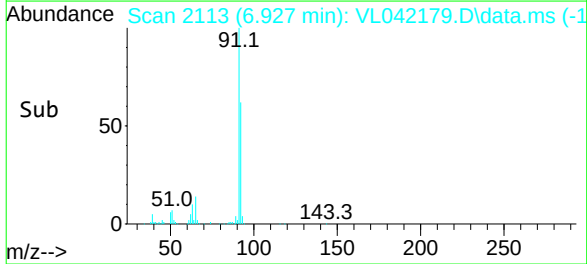
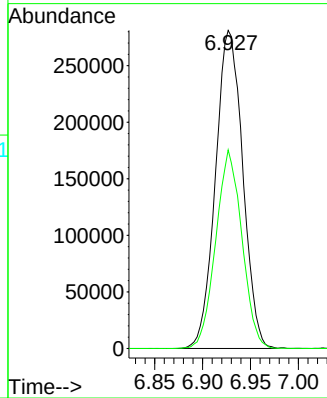
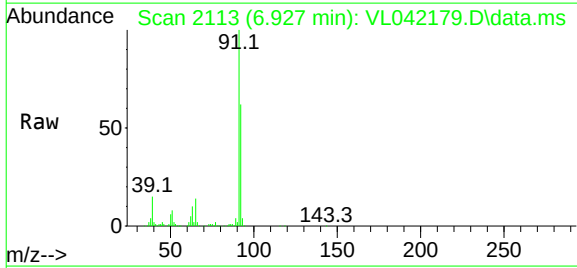
92 59.8 48.4 72.6

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

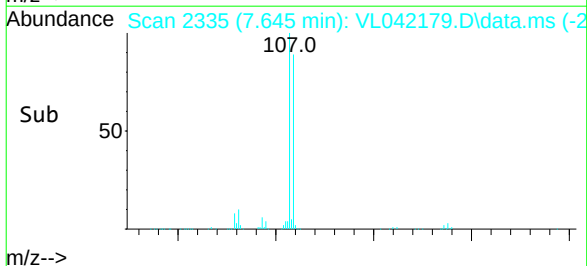
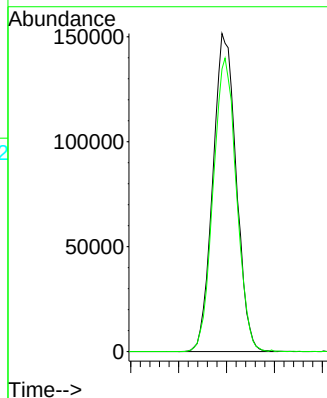
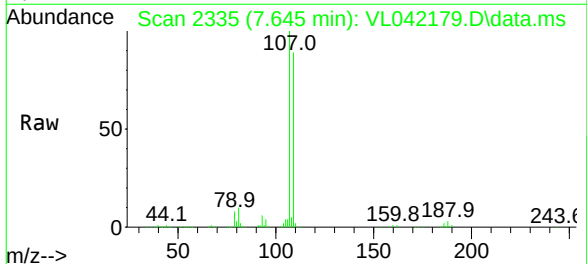
Acq: 27 Mar 2025 12:23

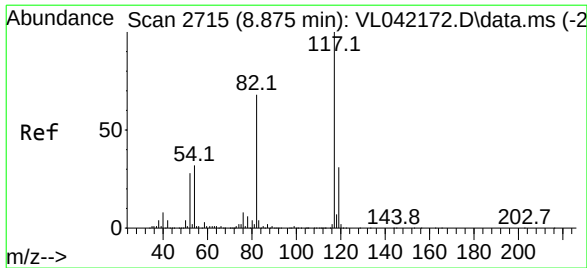
Tgt Ion:107 Resp: 256930

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 :

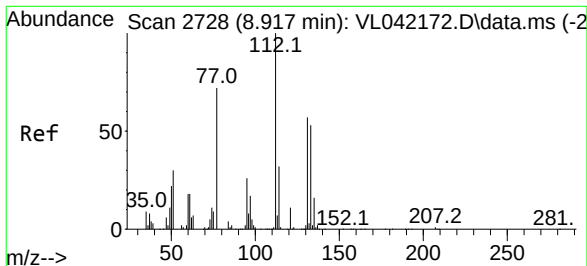
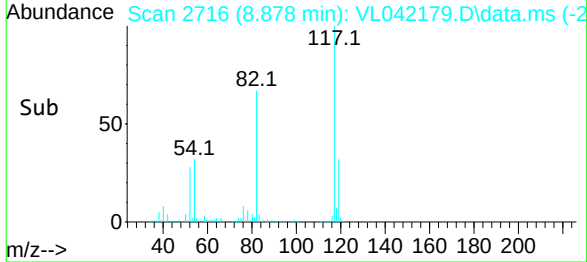
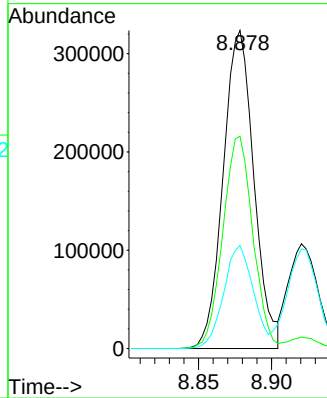
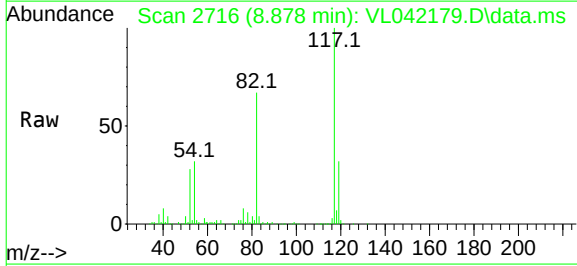
ICVVL032725

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

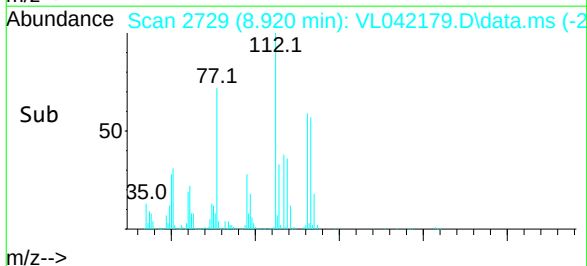
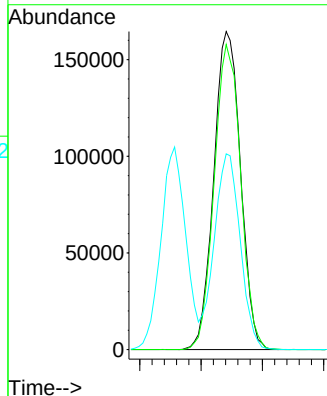
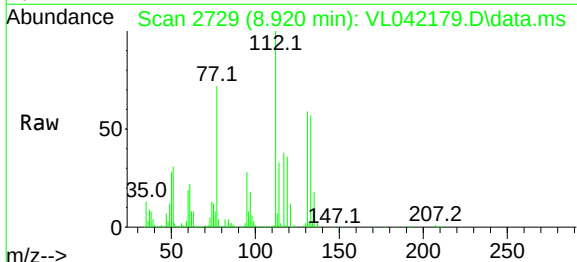
RT: 8.920 min Scan# 2729

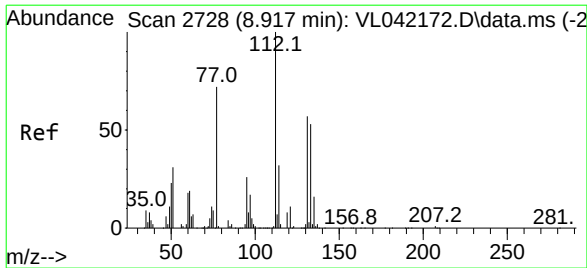
Delta R.T. 0.003 min

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# 27

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

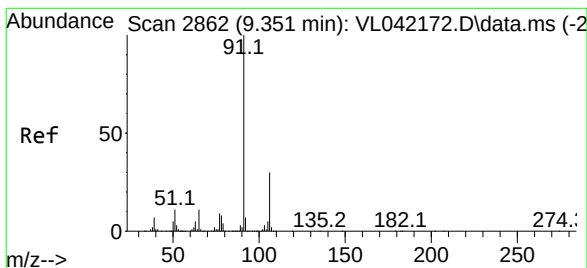
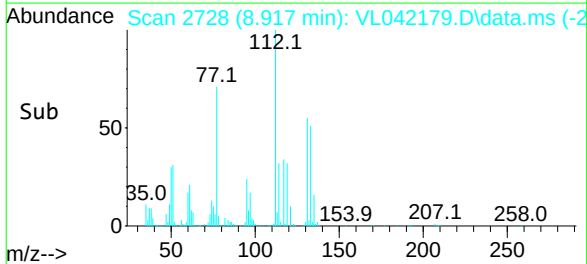
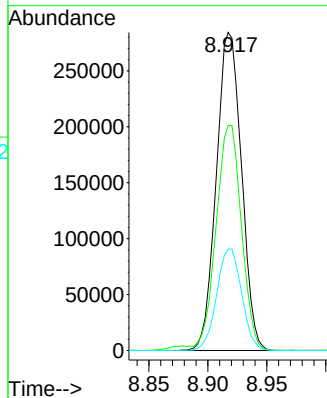
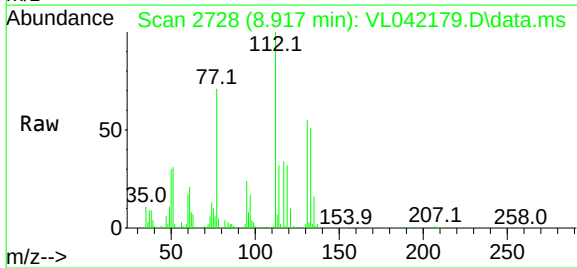
ICVVL032725

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

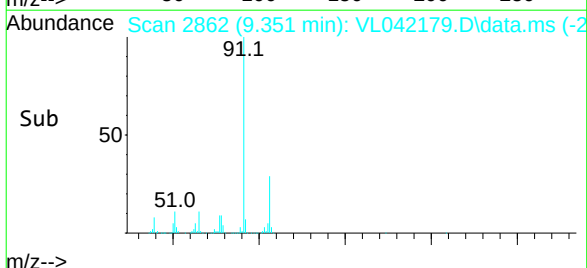
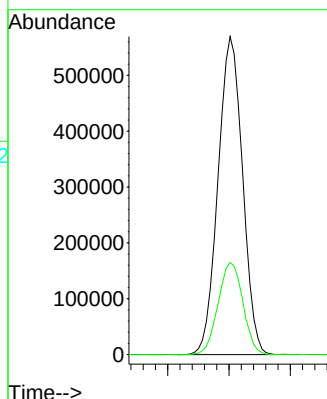
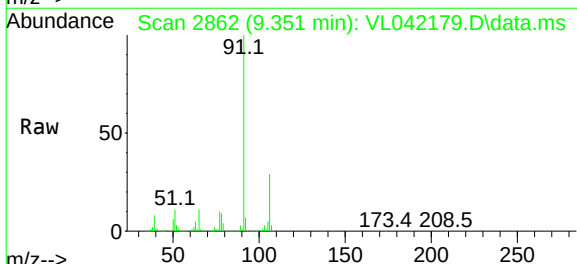
RT: 9.351 min Scan# 2862

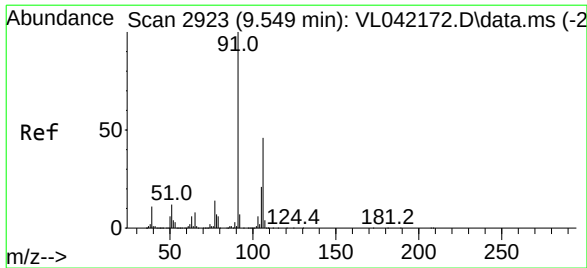
Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

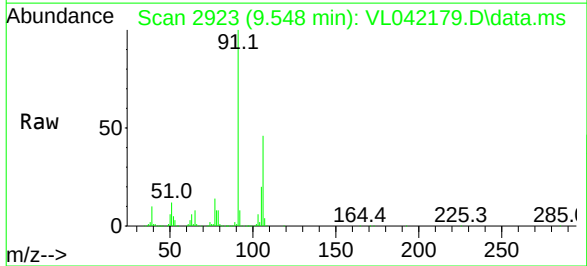
Tgt Ion:	91	Resp:	791360
Ion	Ratio	Lower	Upper
91	100		
106	28.9	24.2	36.2





#59
m/p-Xylene
Concen: 18.772 ppbv m
RT: 9.548 min Scan# 29
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

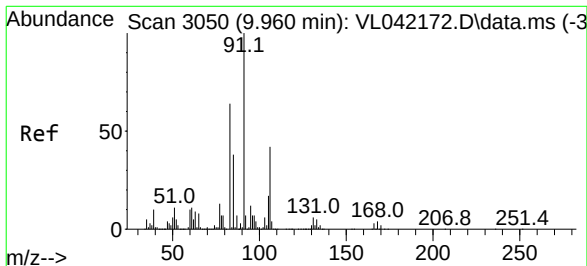
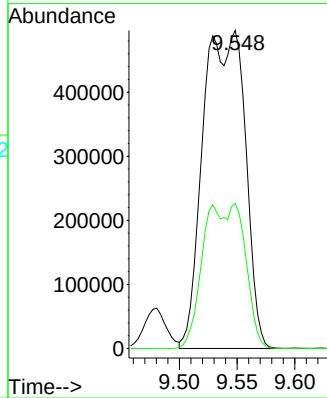
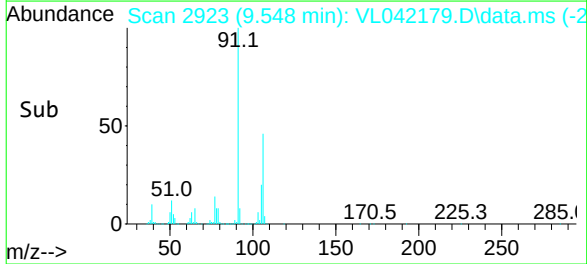
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725



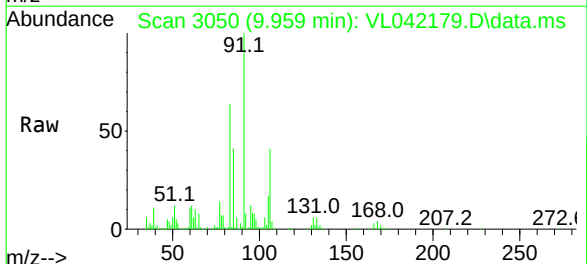
Tgt Ion: 91 Resp: 1260340
Ion Ratio Lower Upper
91 100
106 45.3 36.4 54.6

Manual Integrations
APPROVED

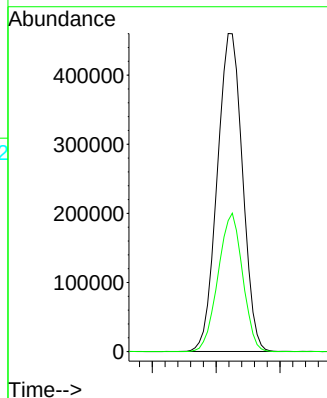
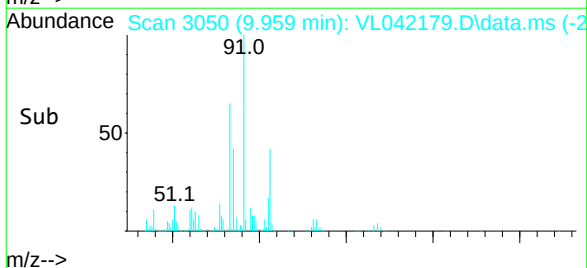
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

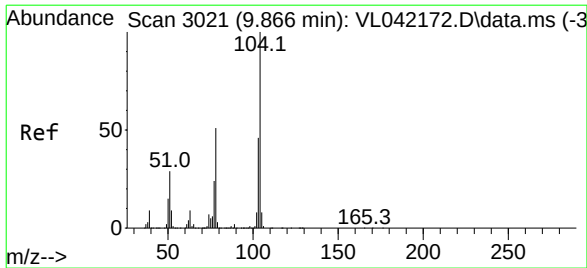


#60
o-Xylene
Concen: 9.404 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



Tgt Ion: 91 Resp: 632918
Ion Ratio Lower Upper
91 100
106 42.2 20.8 62.5





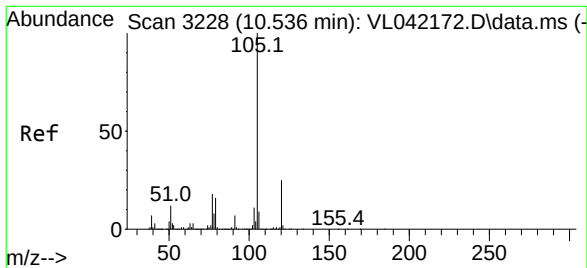
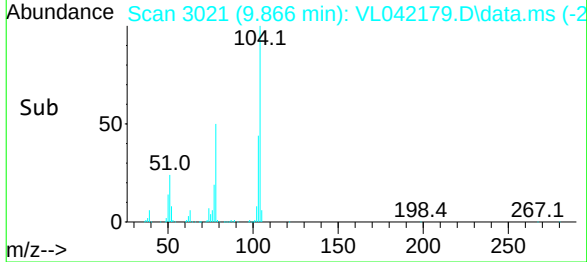
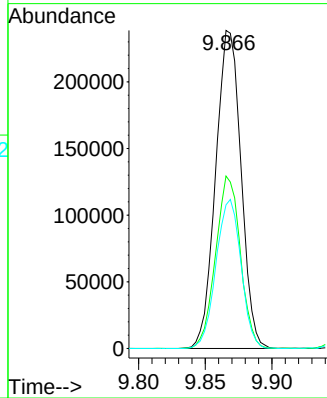
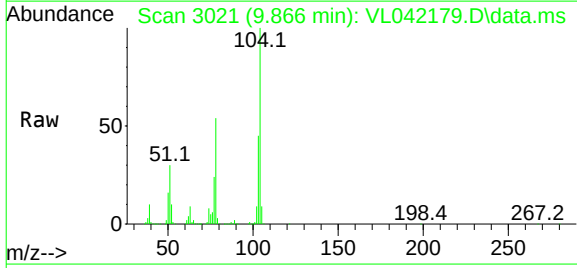
#61
Styrene
Concen: 9.488 ppbv
RT: 9.866 min Scan# 3021
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

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

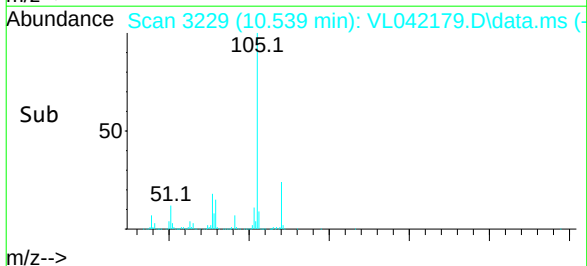
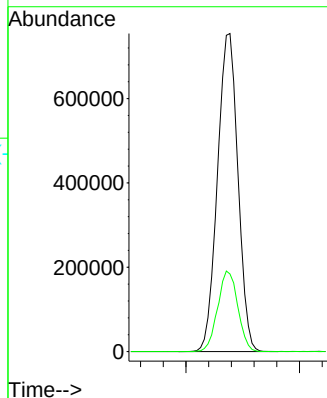
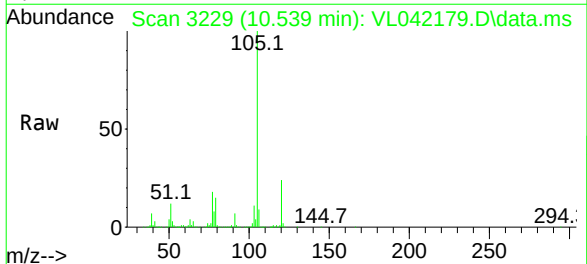
Manual Integrations
APPROVED

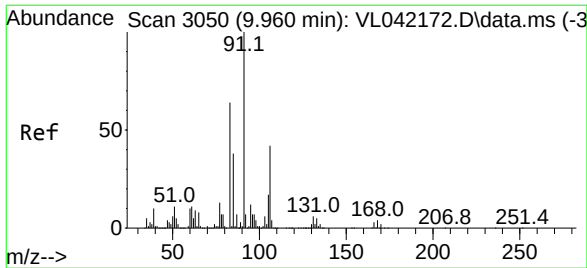
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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

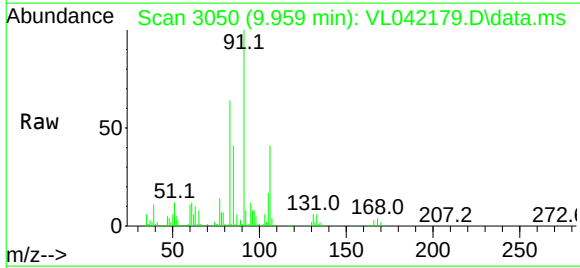
Tgt Ion:105 Resp: 944938
Ion Ratio Lower Upper
105 100
120 24.9 19.9 29.9





#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

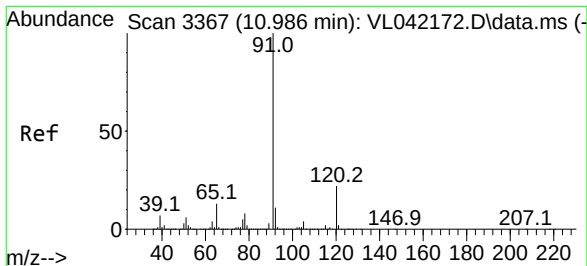
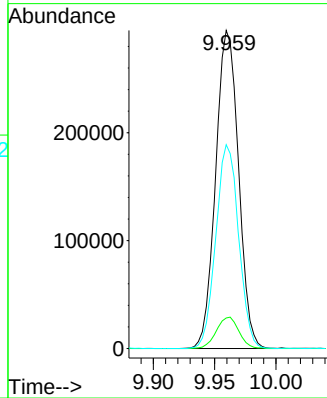
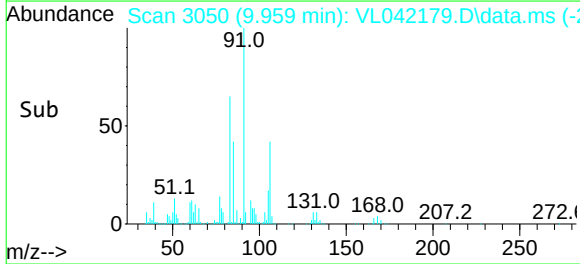
Instrument : MSVOA_L
ClientSampleId : ICVVL032725



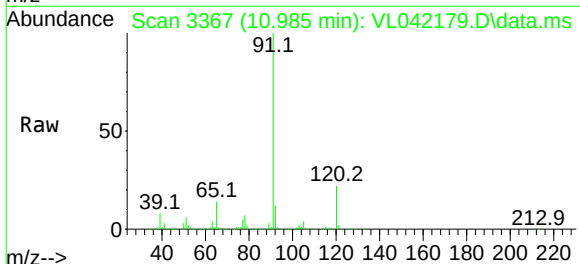
Tgt Ion: 83 Resp: 382635
Ion Ratio Lower Upper
83 100
131 9.7 4.8 14.4
85 63.9 32.5 97.5

Manual Integrations
APPROVED

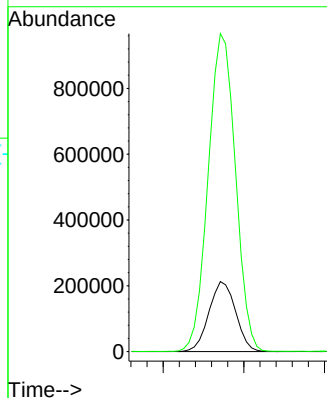
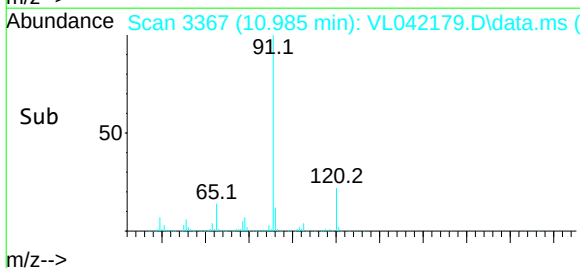
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

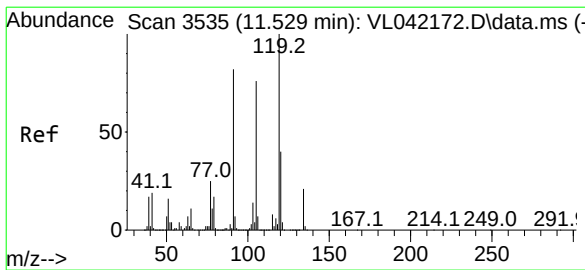


#64
n-propylbenzene
Concen: 9.439 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



Tgt Ion:120 Resp: 244547
Ion Ratio Lower Upper
120 100
91 465.9 376.9 565.3





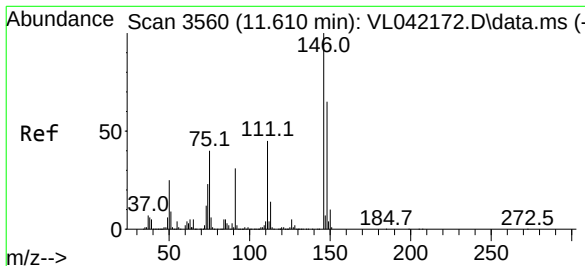
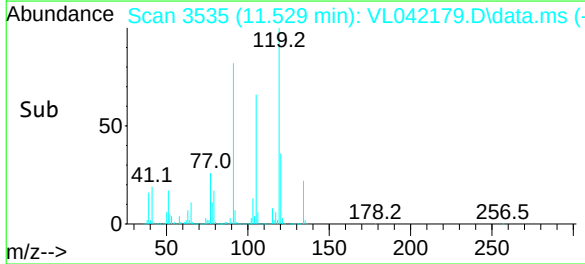
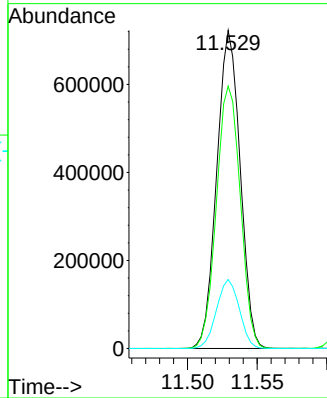
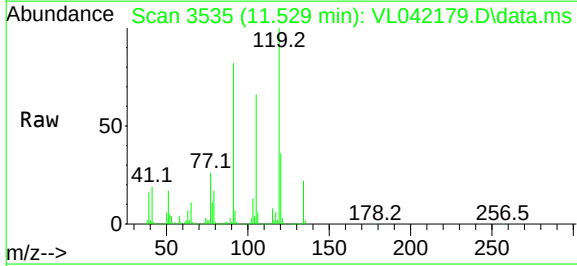
#65
tert-Butylbenzene
Concen: 9.065 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

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

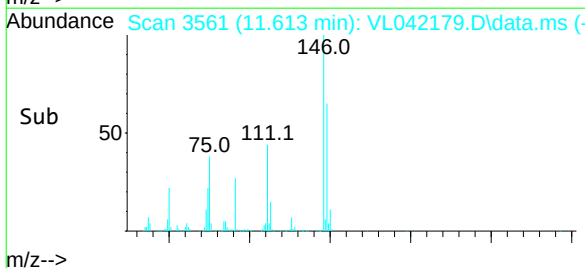
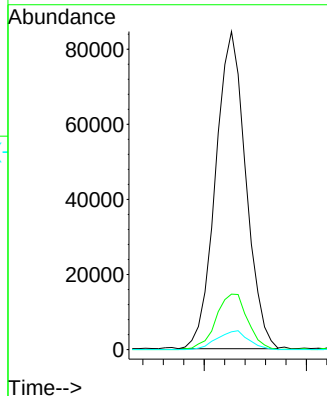
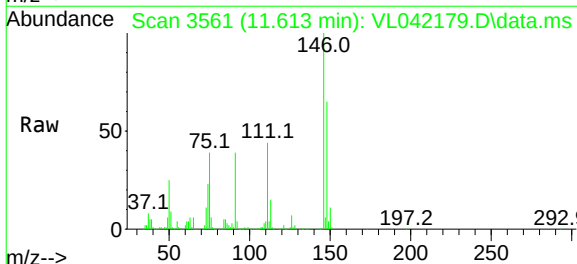
Manual Integrations
APPROVED

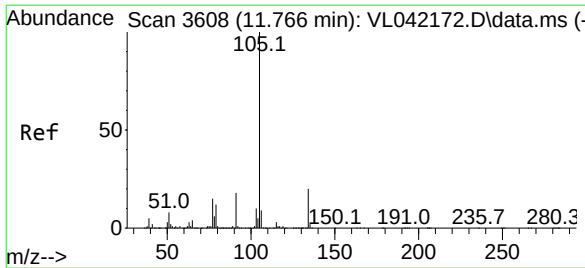
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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





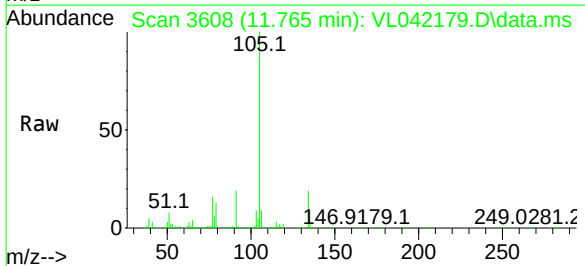
#67
 sec-Butylbenzene
 Concen: 9.063 ppbv
 RT: 11.765 min Scan# 3608
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

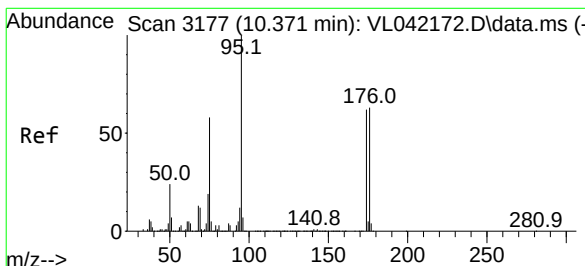
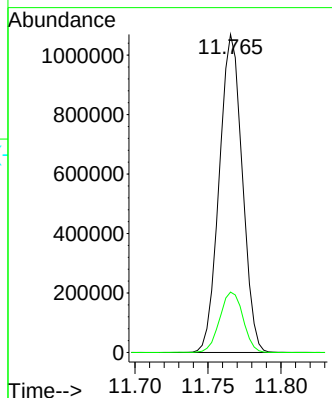
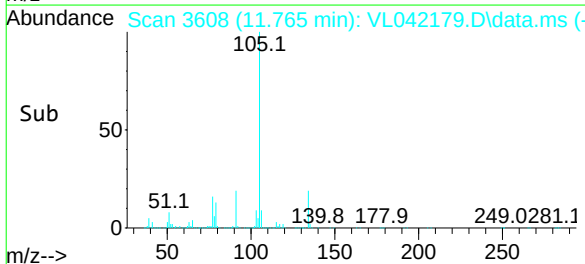
ICVVL032725



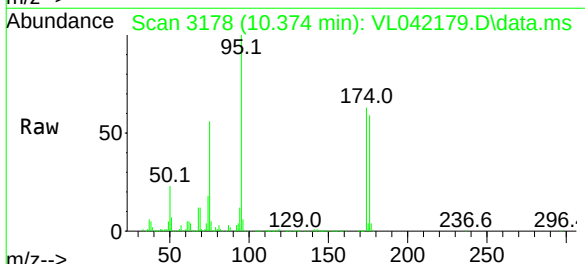
Tgt Ion: 105 Resp: 1172636
 Ion Ratio Lower Upper
 105 100
 134 19.4 15.5 23.3

Manual Integrations
 APPROVED

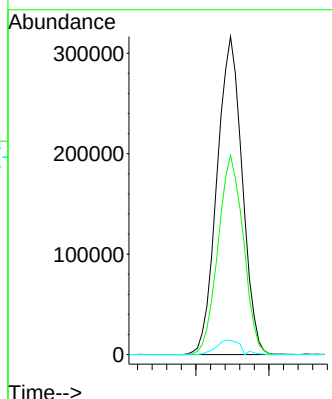
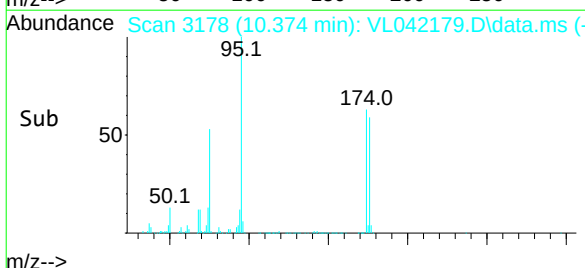
Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

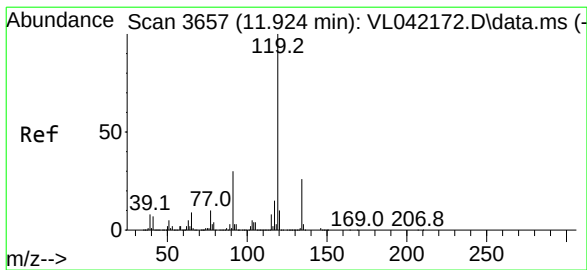


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.774 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.003 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23



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

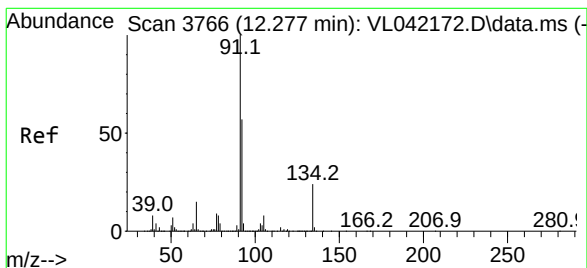
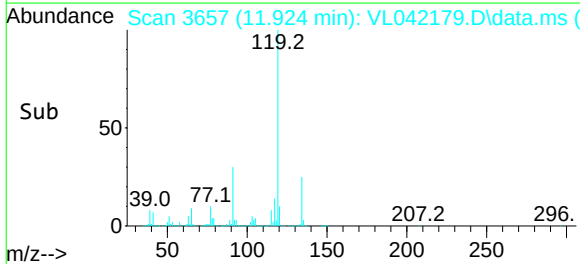
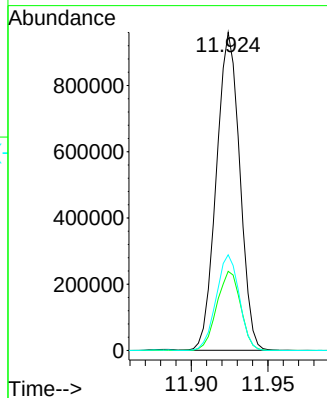
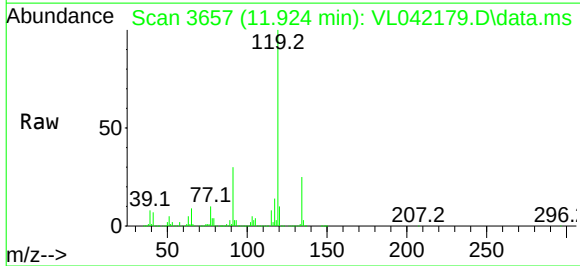
91 29.9 23.7 35.5

Manual Integrations

APPROVED

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

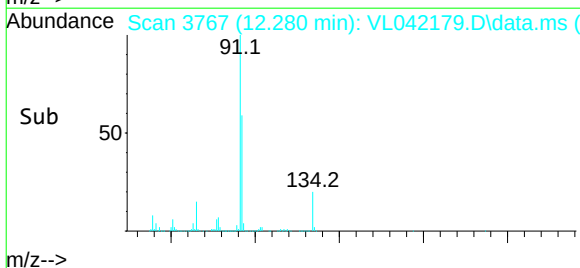
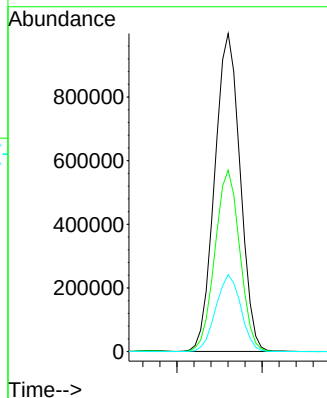
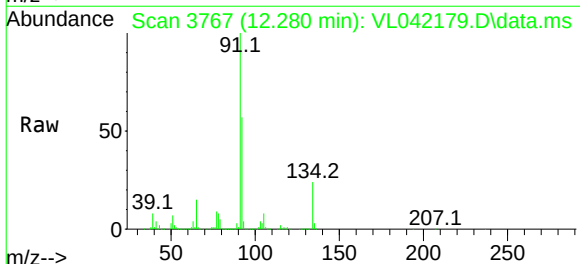
Tgt Ion: 91 Resp: 1038548

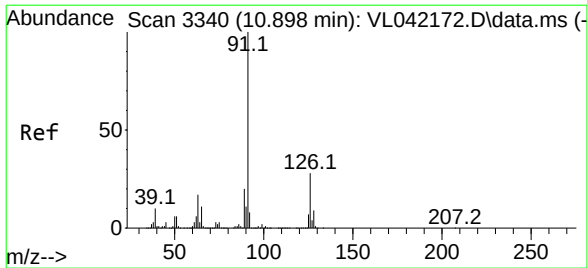
Ion Ratio Lower Upper

91 100

92 56.0 44.9 67.3

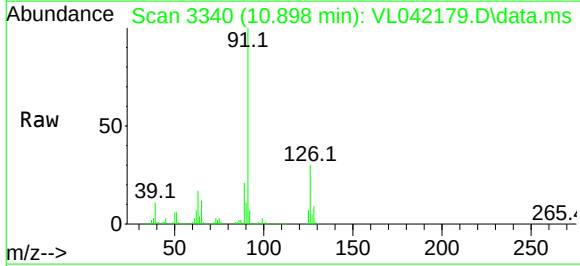
134 23.8 19.2 28.8





#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

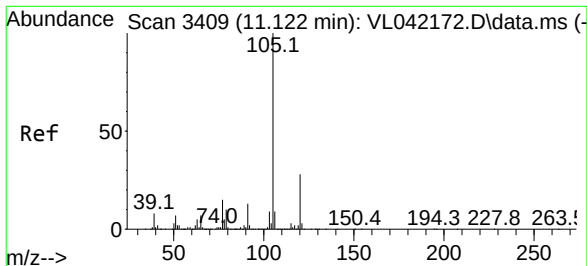
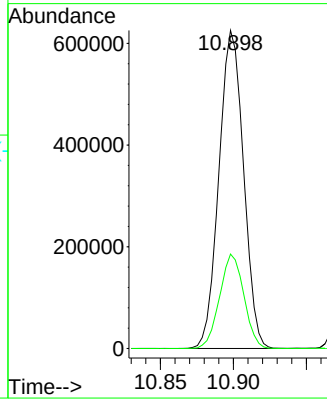
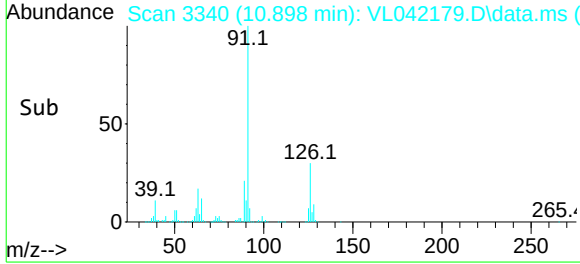
Instrument : MSVOA_L
ClientSampleId : ICVVL032725



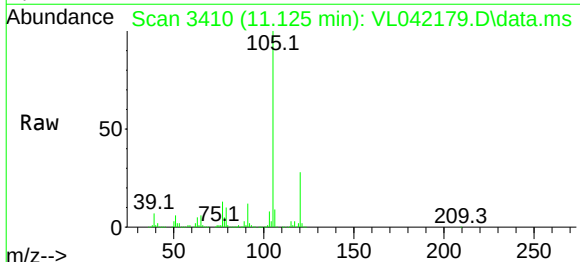
Tgt Ion: 91 Resp: 732874
Ion Ratio Lower Upper
91 100
126 29.2 11.6 46.4

Manual Integrations
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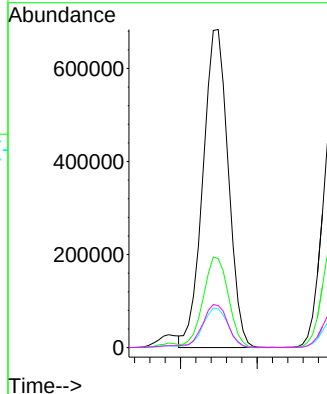
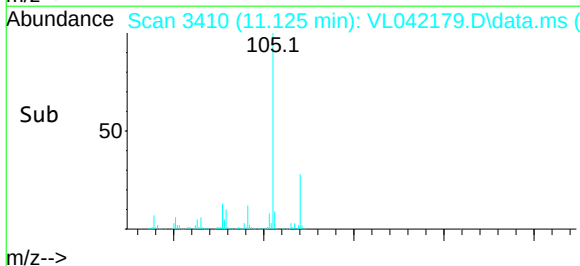
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

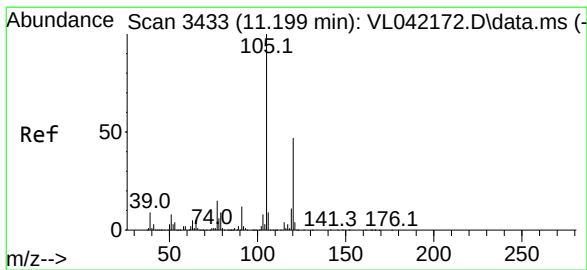


#72
4-Ethyltoluene
Concen: 9.370 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



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

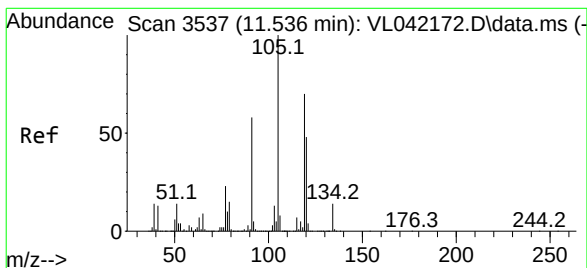
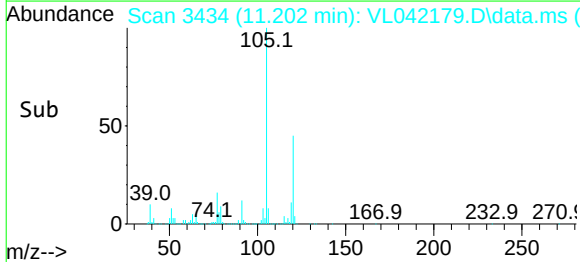
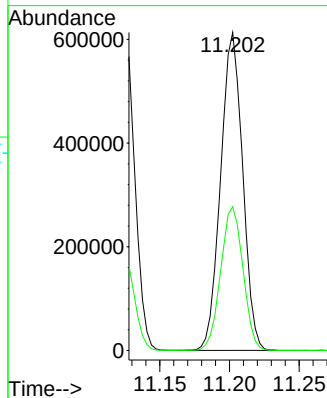
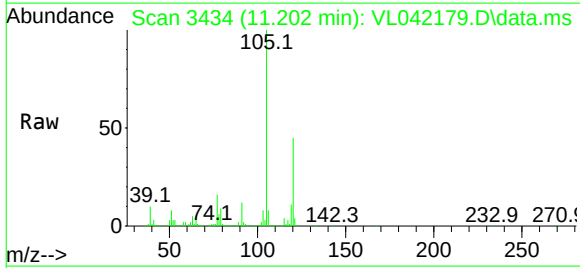
120 45.2 37.4 56.0

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

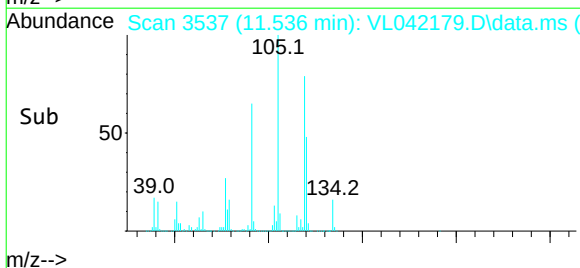
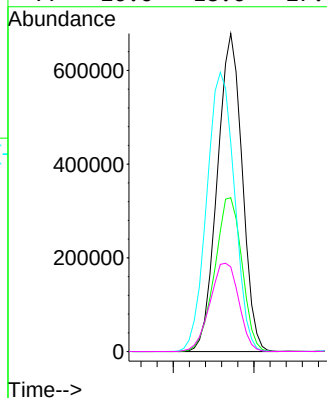
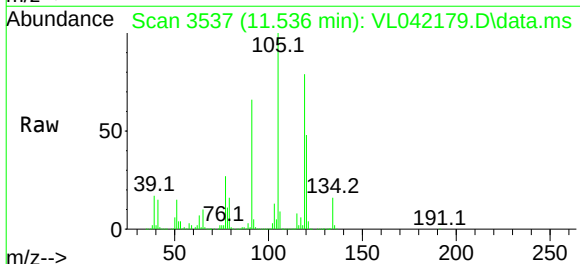
Ion Ratio Lower Upper

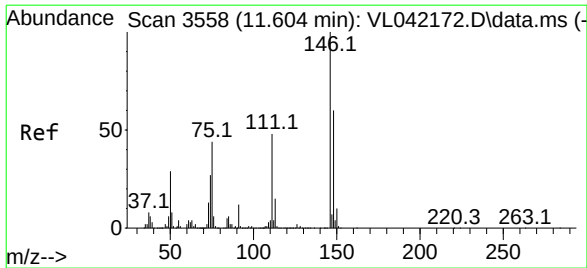
105 100

120 48.4 38.6 58.0

91 65.6 46.2 69.2

77 26.6 18.6 27.8





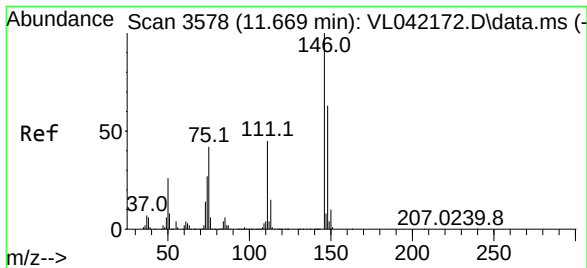
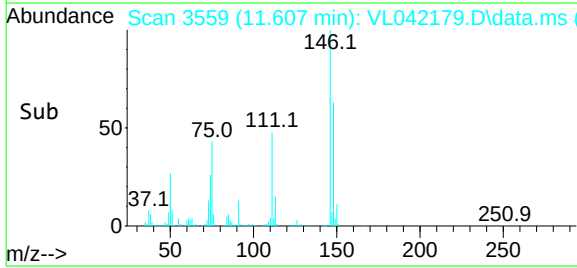
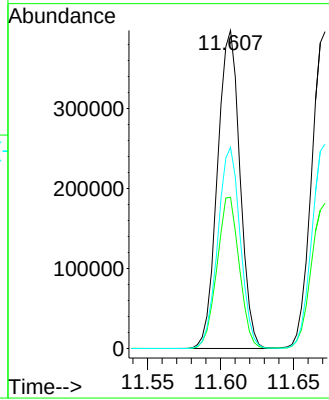
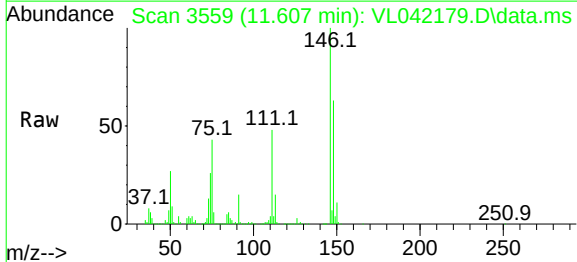
#75
1,3-Dichlorobenzene
Concen: 9.224 ppbv
RT: 11.607 min Scan# 3558
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

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

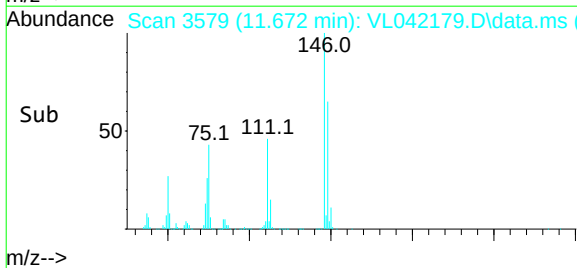
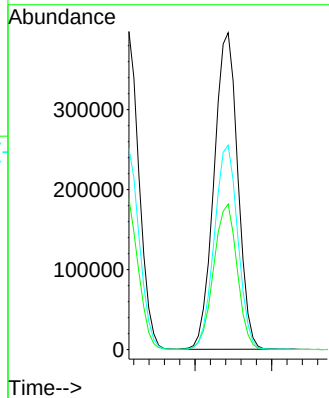
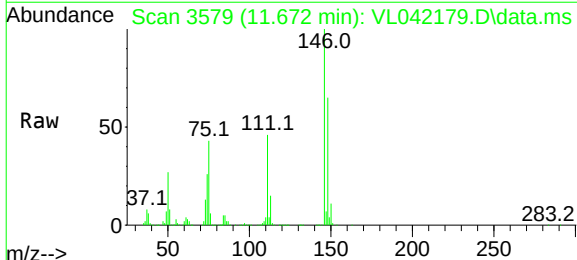
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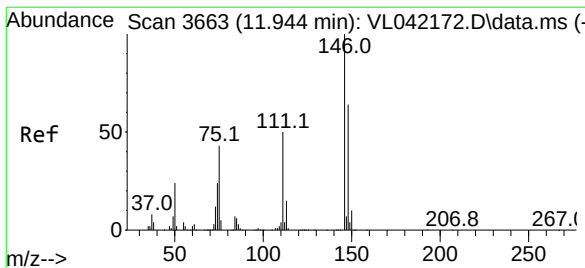
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#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 :

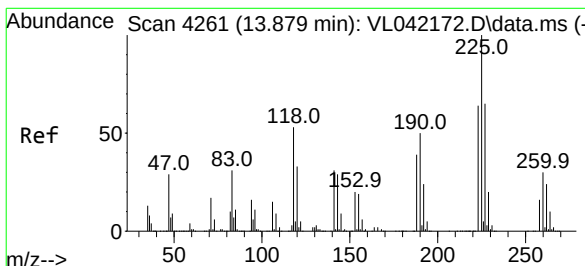
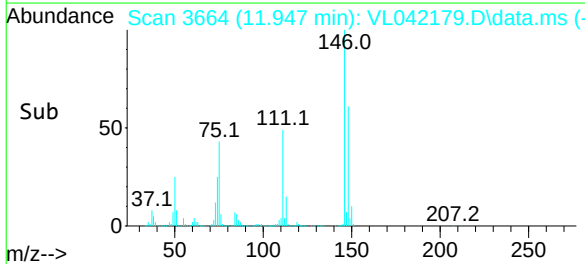
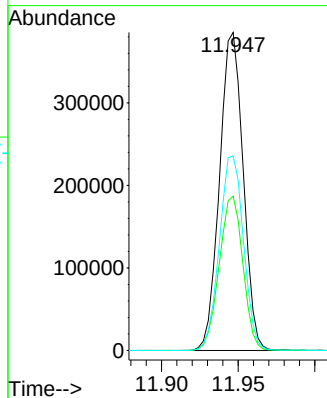
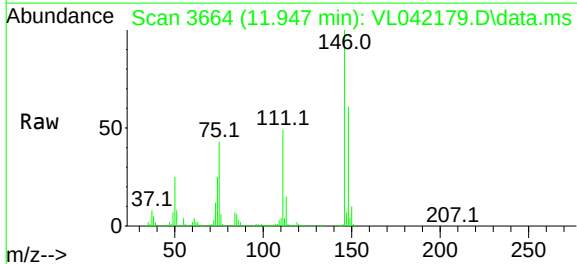
ICVVL032725

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

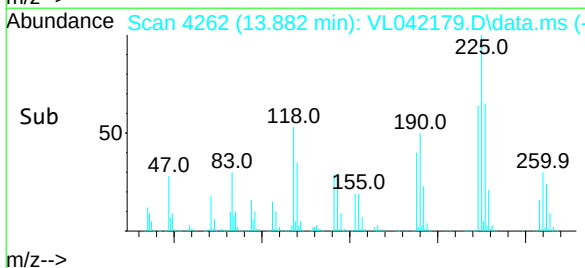
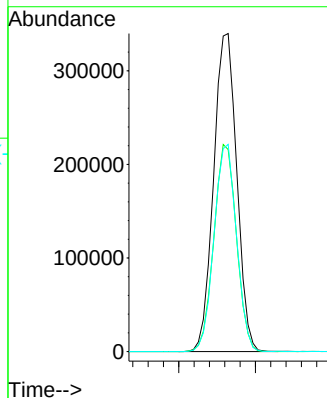
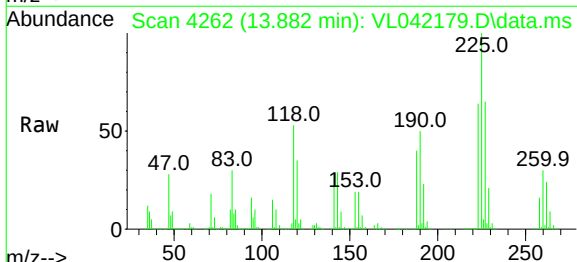
RT: 13.882 min Scan# 4262

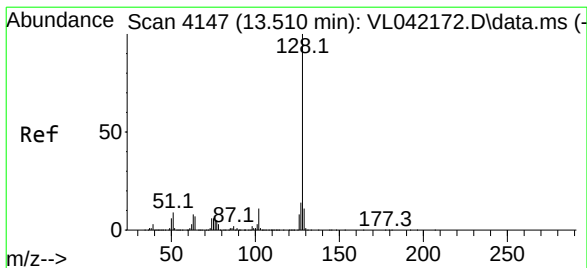
Delta R.T. 0.003 min

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

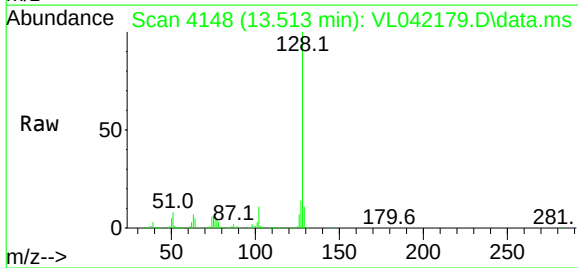
Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032725

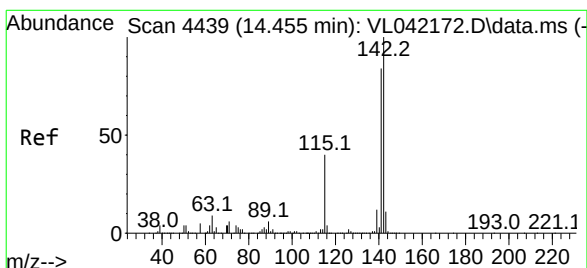
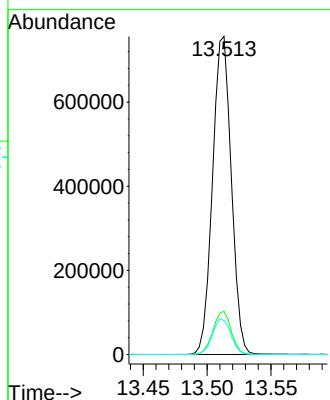
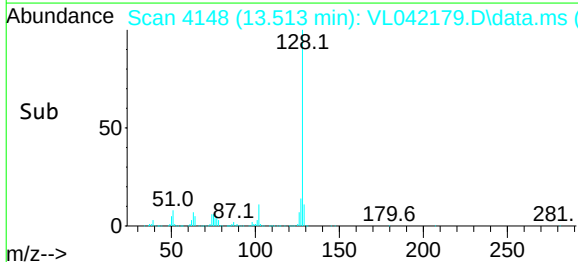


Tgt Ion:	128	Resp:	773311
Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.8	16.2
129	10.7	9.0	13.4

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

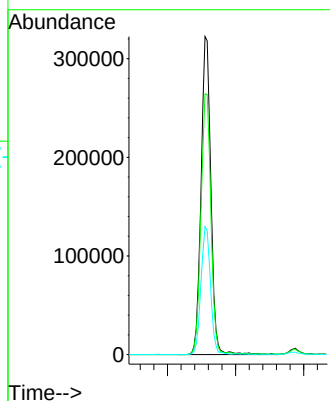
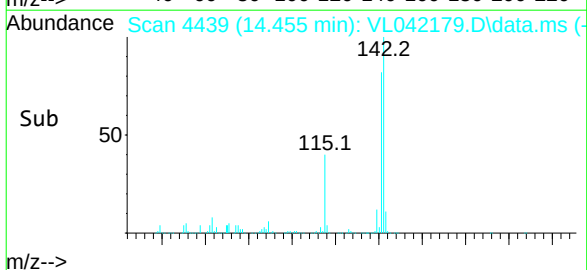
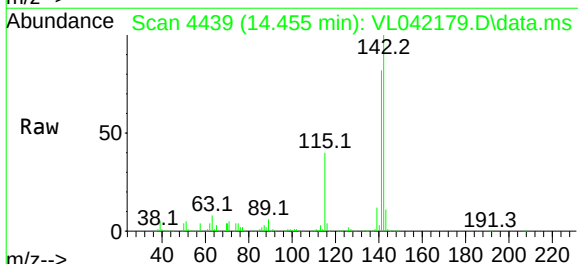
RT: 14.455 min Scan# 4439

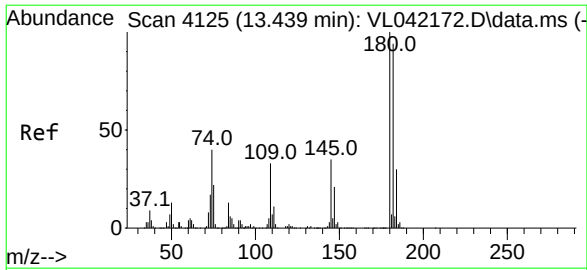
Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

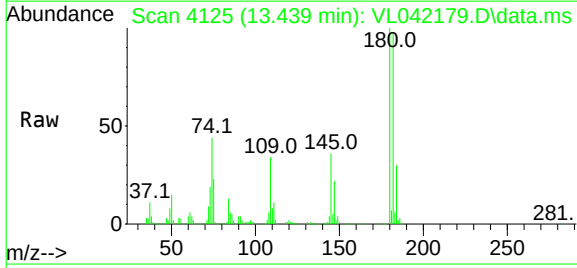
Tgt Ion:	142	Resp:	323443
Ion	Ratio	Lower	Upper
142	100		
141	83.5	66.3	99.5
115	39.8	31.6	47.4





#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

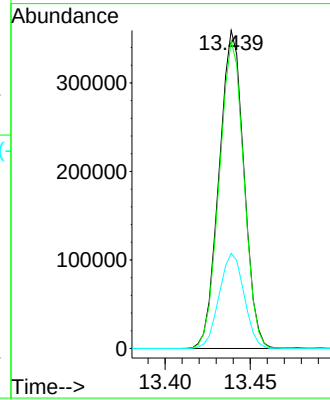
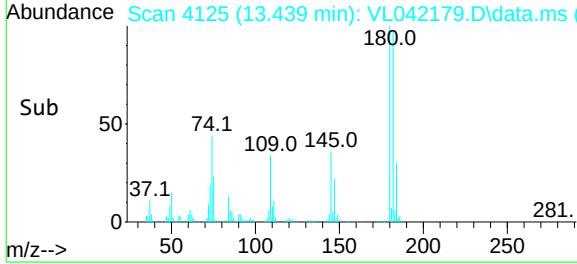
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725



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.: Q1728 SAS No.: Q1728 SDG No.: Q1728

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.: Q1728 SAS No.: Q1728 SDG No.: Q1728

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

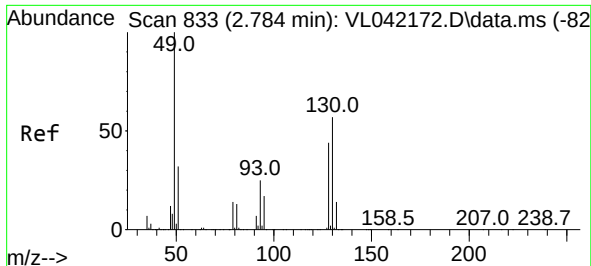
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

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



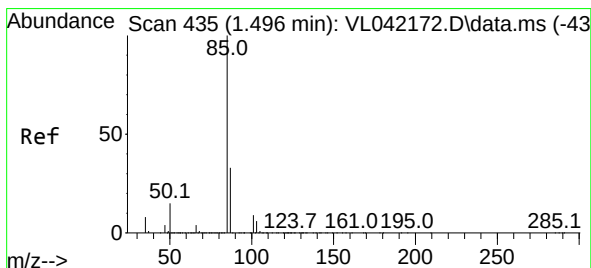
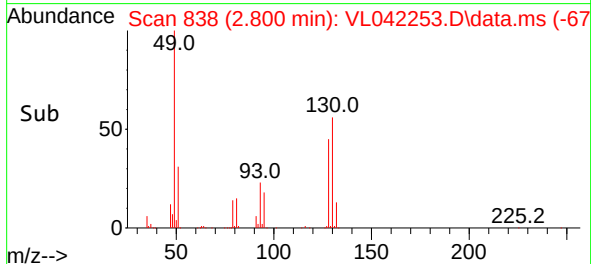
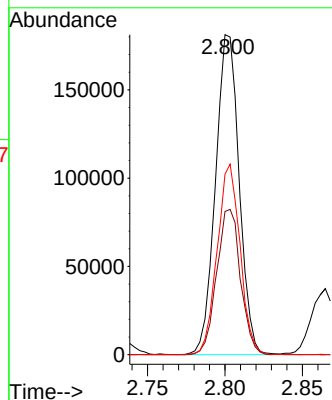
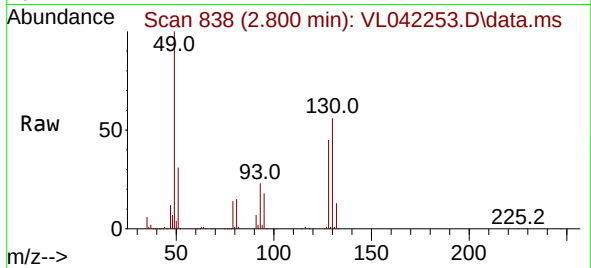
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Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

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

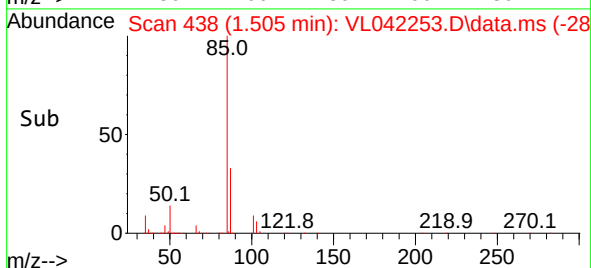
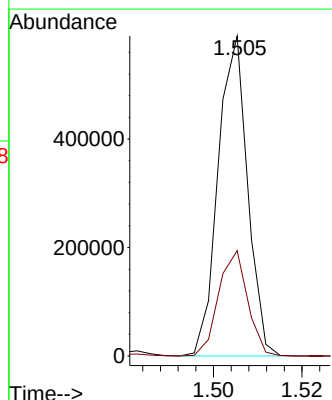
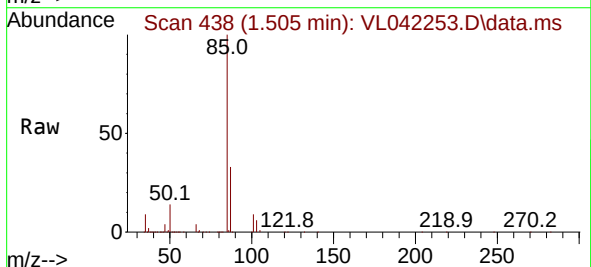
Manual Integrations
APPROVED

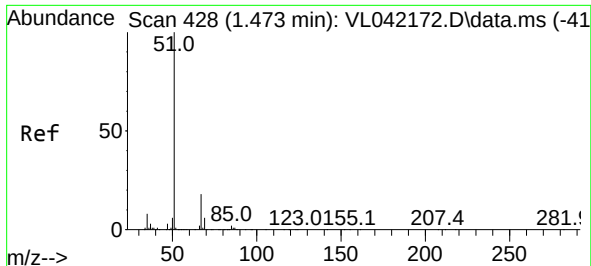
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#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

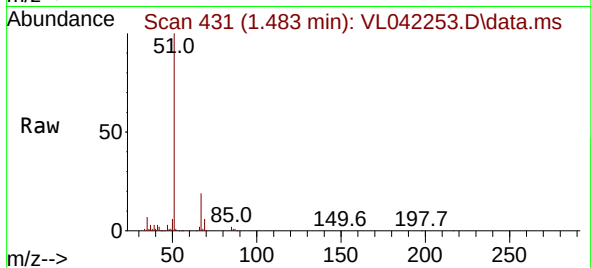
Tgt Ion: 85 Resp: 273431
Ion Ratio Lower Upper
85 100
87 32.9 26.1 39.1





#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

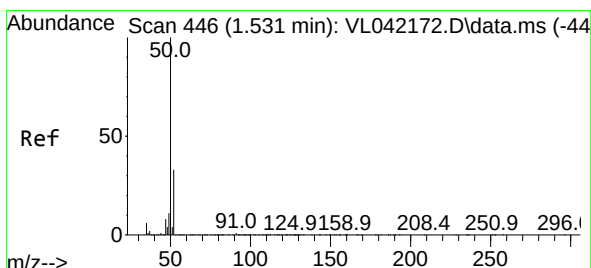
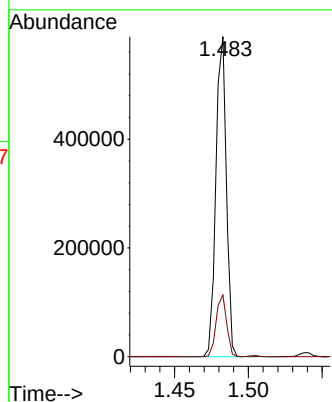
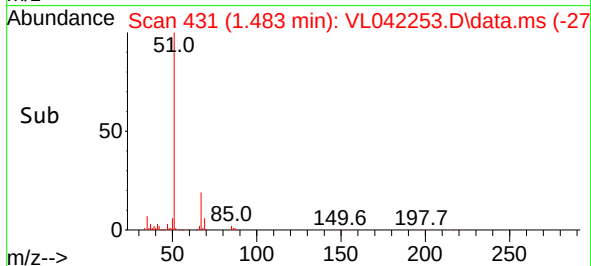
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



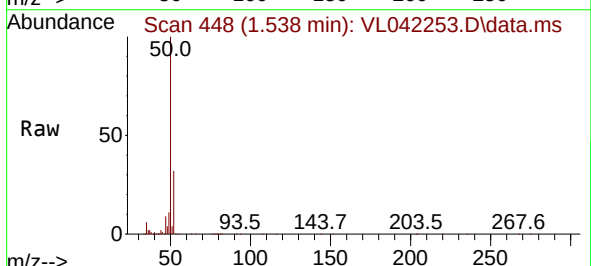
Tgt Ion: 51 Resp: 290289
Ion Ratio Lower Upper
51 100
67 19.4 15.0 22.6

Manual Integrations
APPROVED

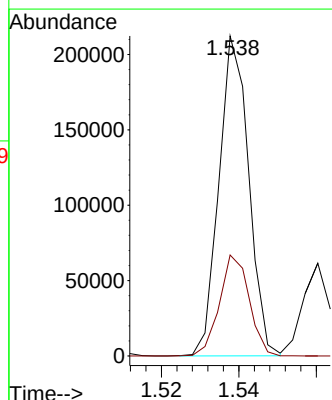
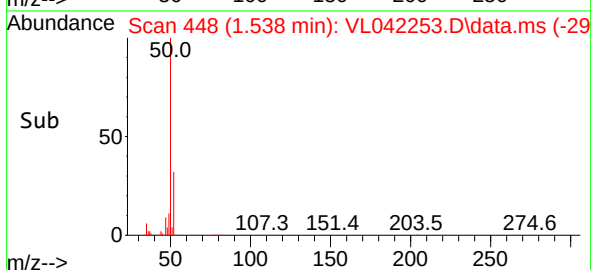
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

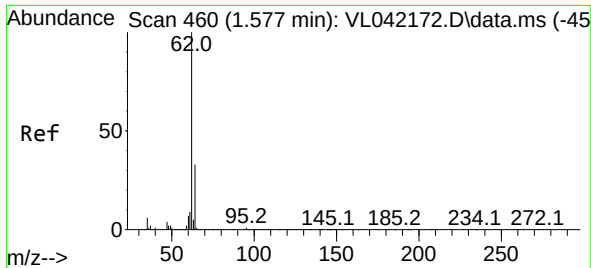


#4
Chloromethane
Concen: 9.729 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39



Tgt Ion: 50 Resp: 113157
Ion Ratio Lower Upper
50 100
52 31.6 26.1 39.1





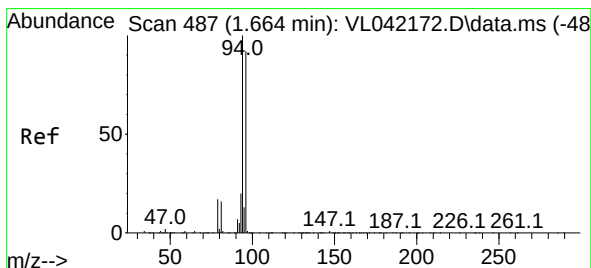
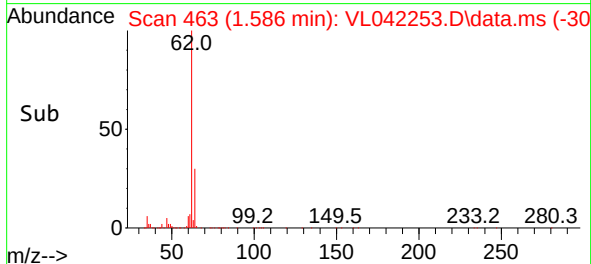
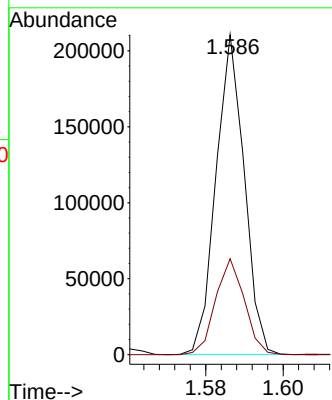
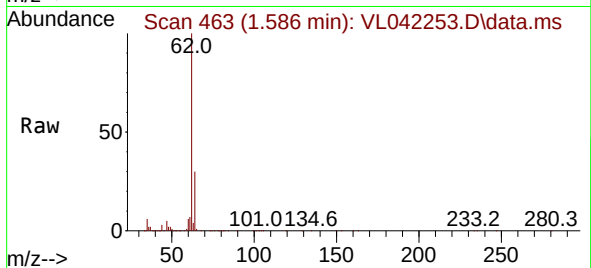
#5
 Vinyl Chloride
 Concen: 8.637 ppbv
 RT: 1.586 min Scan# 40
 Delta R.T. 0.010 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion: 62 Resp: 106450
 Ion Ratio Lower Upper
 62 100
 64 30.0 26.6 40.0

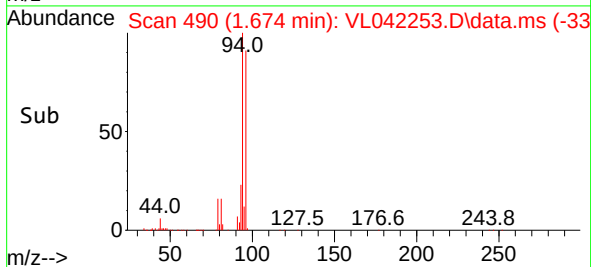
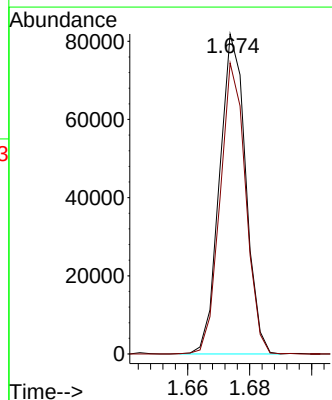
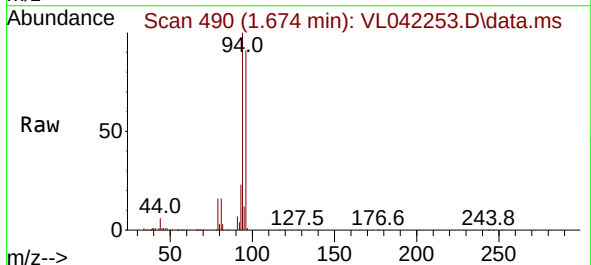
Manual Integrations
 APPROVED

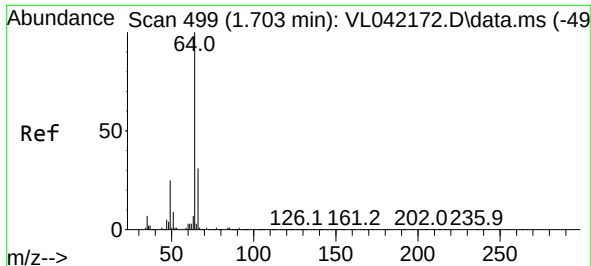
Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#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





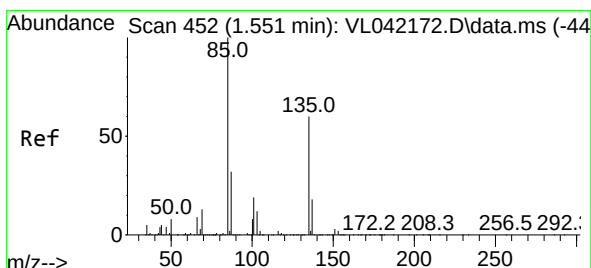
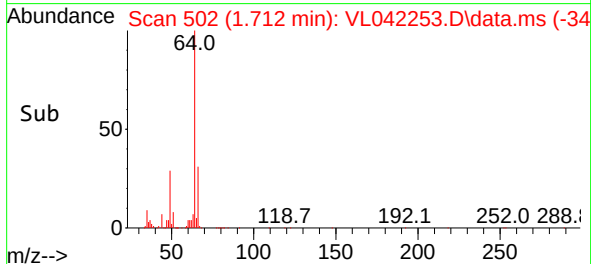
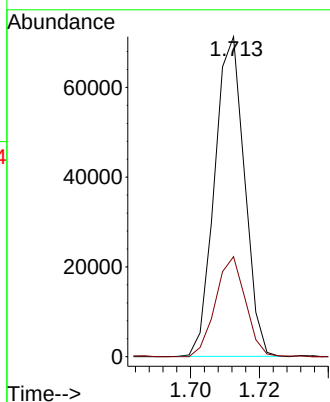
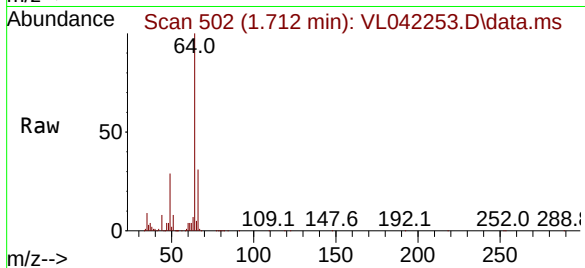
#7
Chloroethane
Concen: 9.215 ppbv
RT: 1.712 min Scan# 502
Delta R.T. 0.010 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 64 Resp: 4302
Ion Ratio Lower Upper
64 100
66 31.2 25.2 37.8

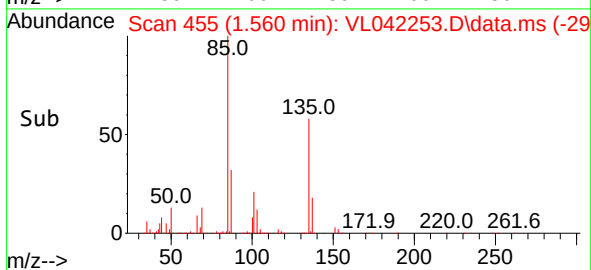
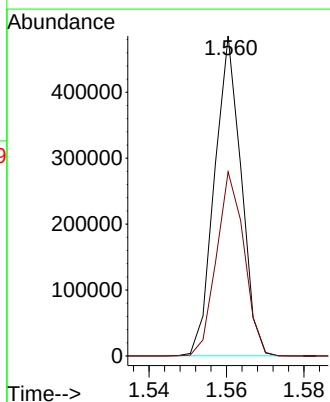
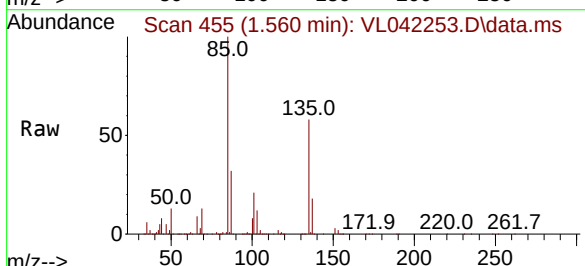
Manual Integrations
APPROVED

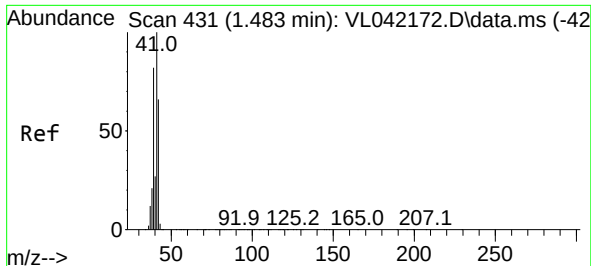
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#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

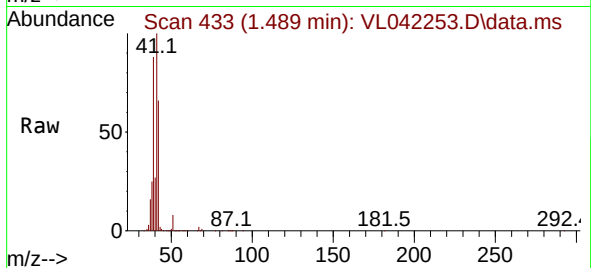
Tgt Ion: 85 Resp: 231550
Ion Ratio Lower Upper
85 100
135 60.1 52.4 78.6





#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

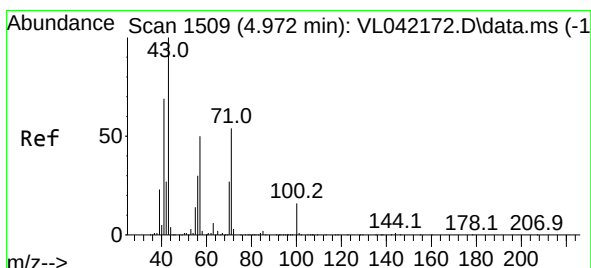
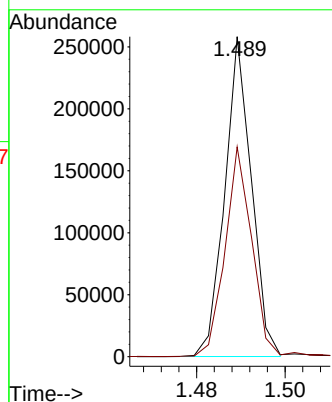
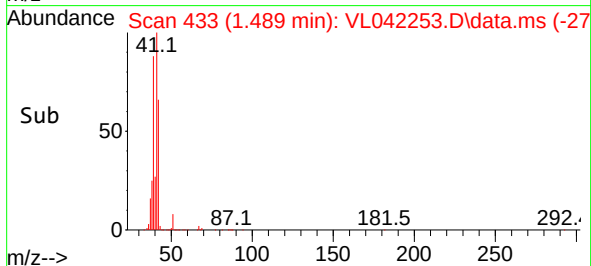
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



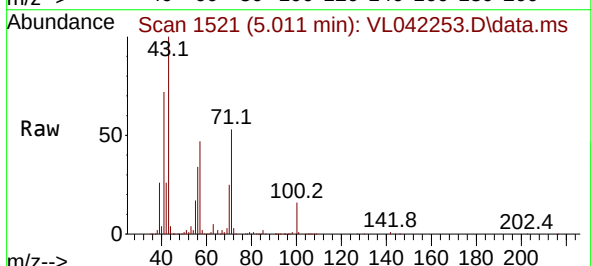
Tgt Ion: 41 Resp: 107999
 Ion Ratio Lower Upper
 41 100
 42 67.3 55.4 83.2

Manual Integrations
 APPROVED

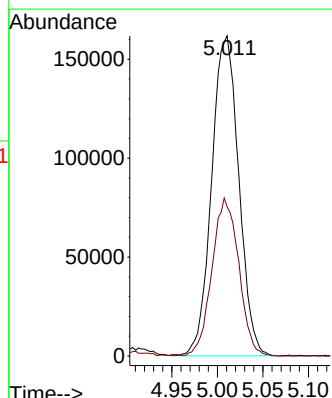
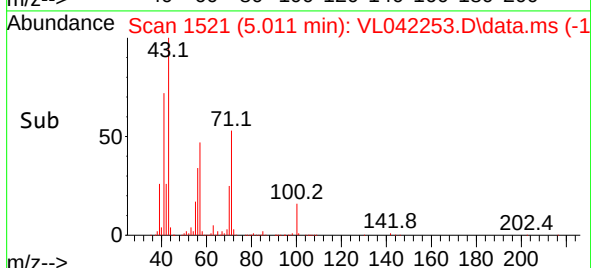
Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025

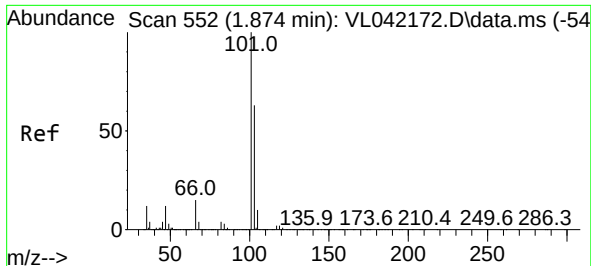


#10
 Heptane
 Concen: 9.441 ppbv
 RT: 5.011 min Scan# 1521
 Delta R.T. 0.039 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39



Tgt Ion: 43 Resp: 334651
 Ion Ratio Lower Upper
 43 100
 57 48.8 39.4 59.2





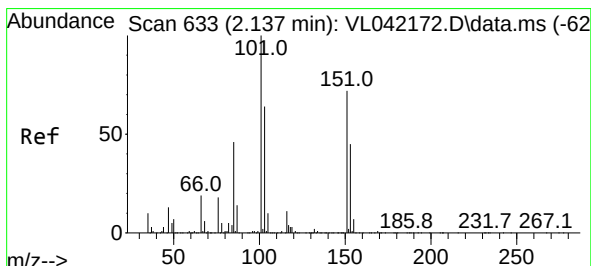
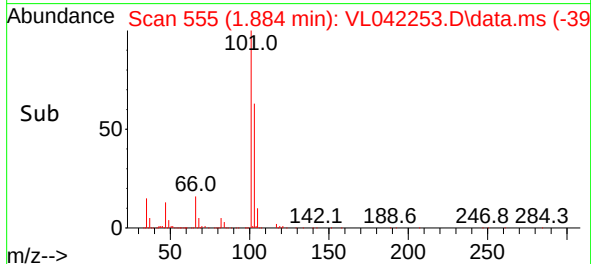
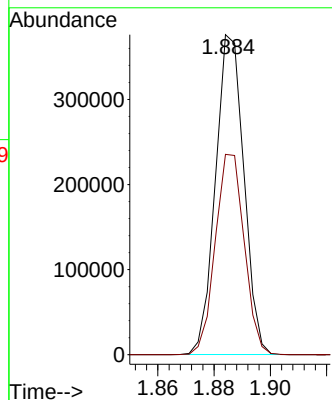
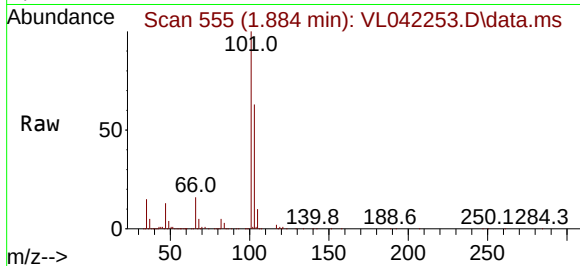
#11
Trichlorofluoromethane
Concen: 9.518 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.010 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:101 Resp: 263560
Ion Ratio Lower Upper
101 100
103 62.6 50.2 75.2

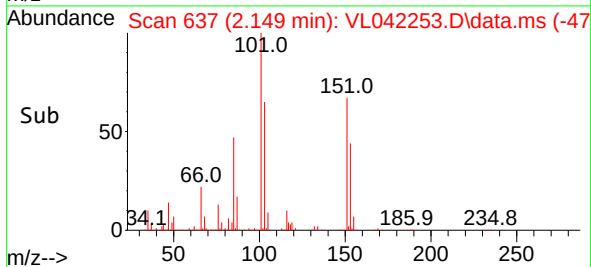
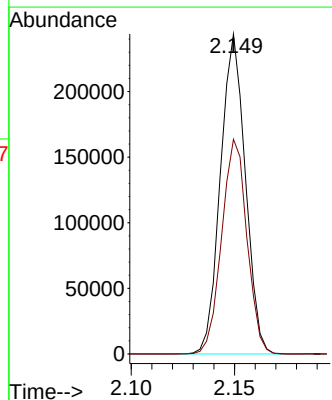
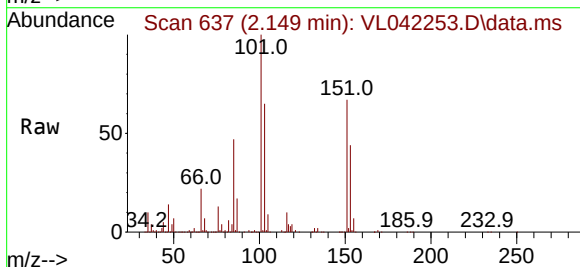
Manual Integrations
APPROVED

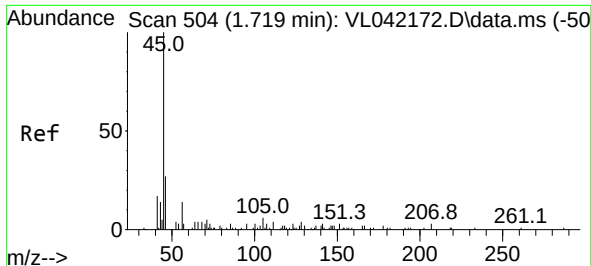
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#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





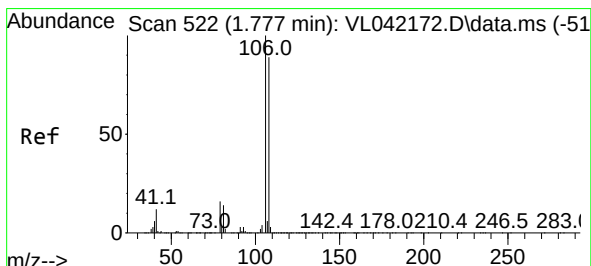
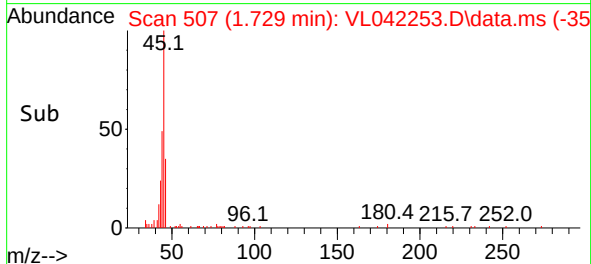
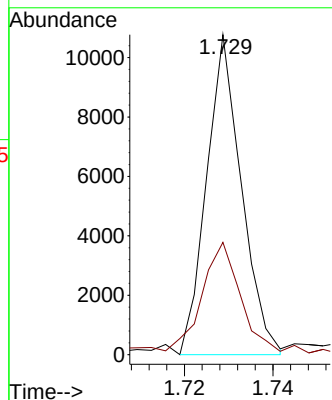
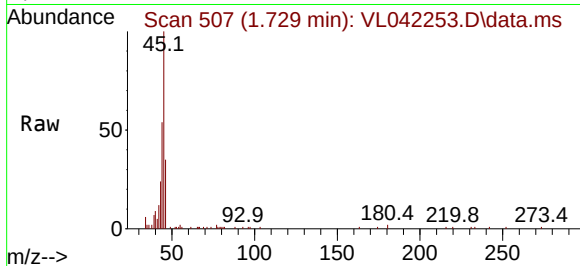
#13
Ethanol
Concen: 4.686 ppbv
RT: 1.729 min Scan# 504
Delta R.T. 0.010 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 590
Ion Ratio Lower Upper
45 100
46 45.1 20.2 80.8

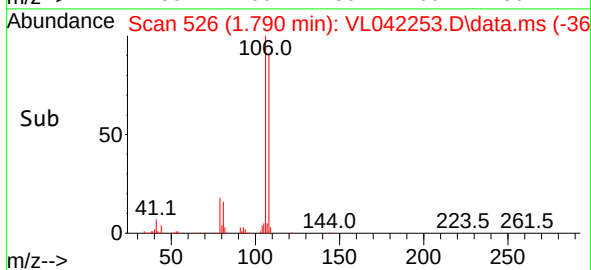
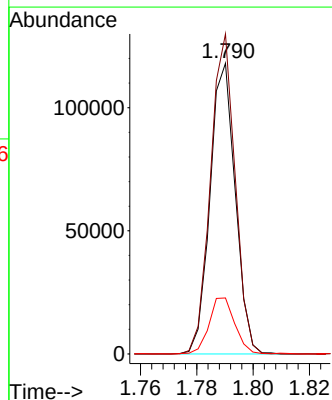
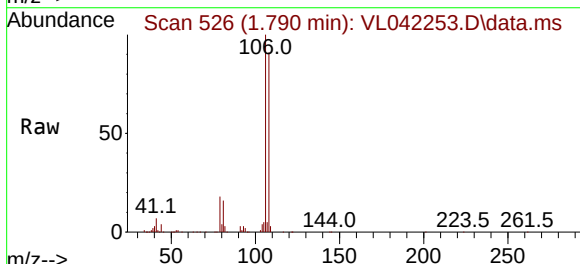
Manual Integrations
APPROVED

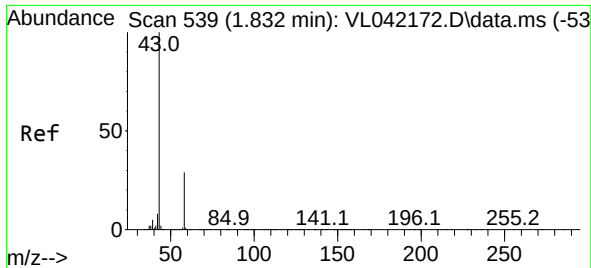
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#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





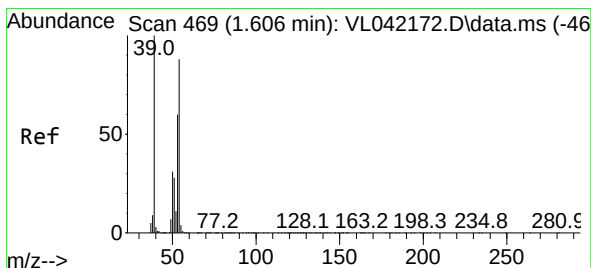
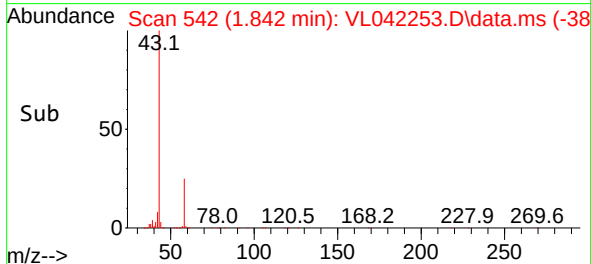
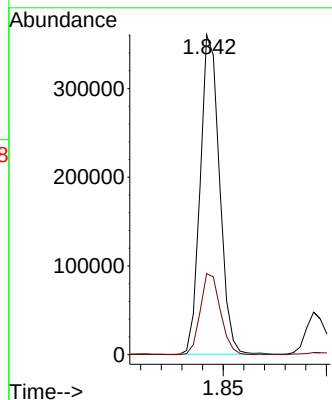
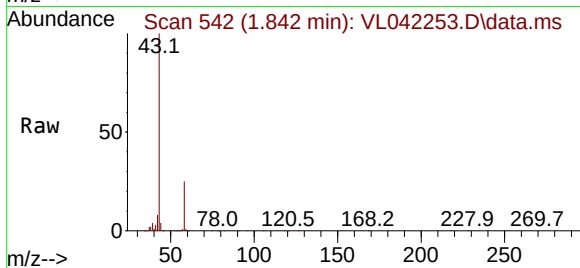
#15
Acetone
Concen: 8.677 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.010 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 23389
Ion Ratio Lower Upper
43 100
58 26.7 23.2 34.8

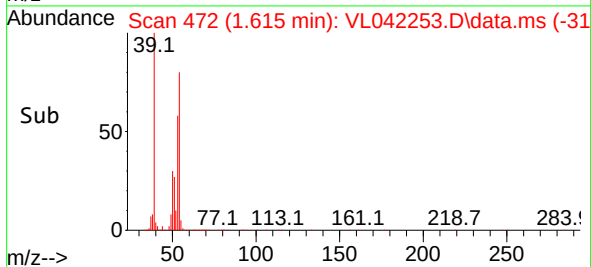
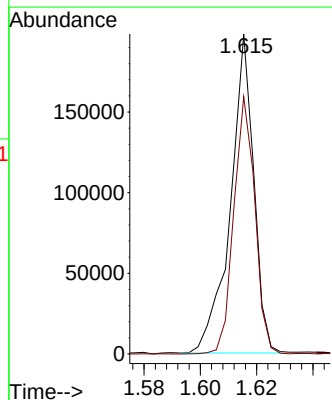
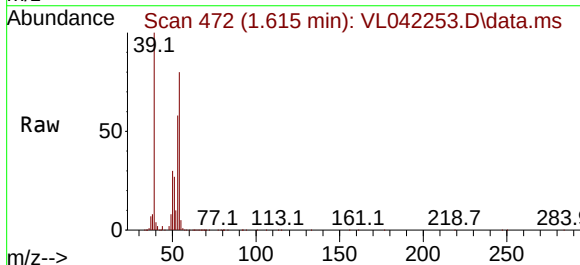
Manual Integrations
APPROVED

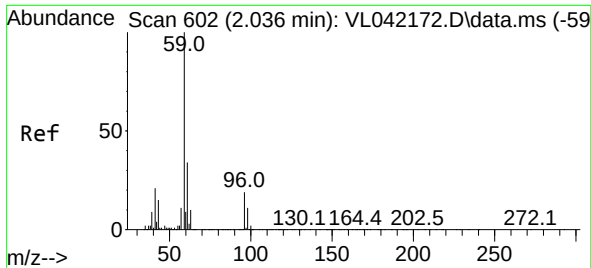
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#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





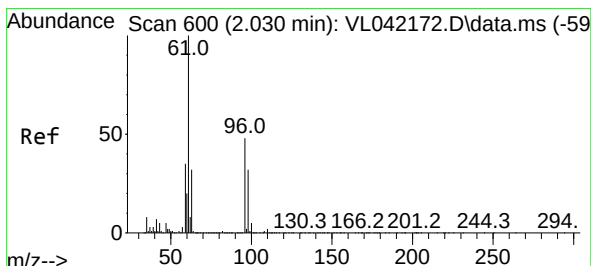
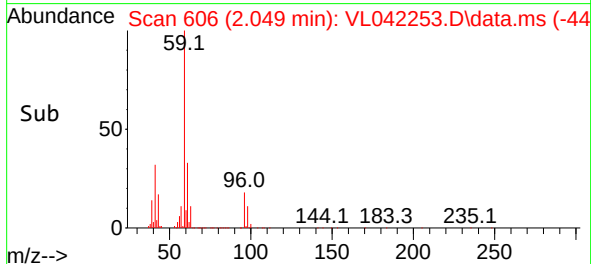
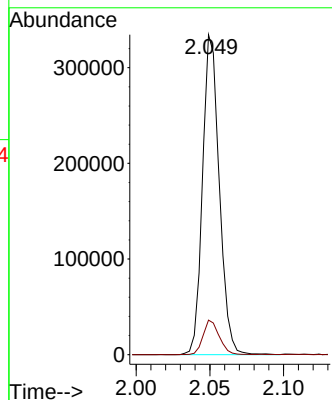
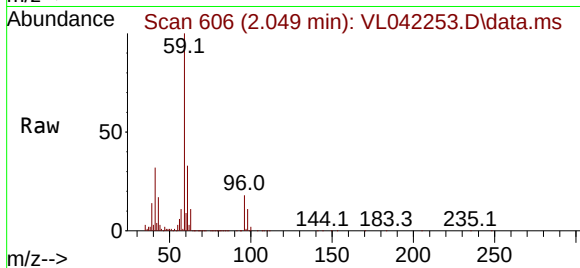
#17
tert-Butyl alcohol
Concen: 7.865 ppbv
RT: 2.049 min Scan# 606
Delta R.T. 0.013 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 59 Resp: 26406
Ion Ratio Lower Upper
59 100
57 10.5 8.9 13.3

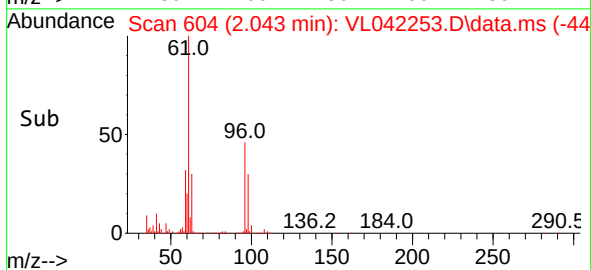
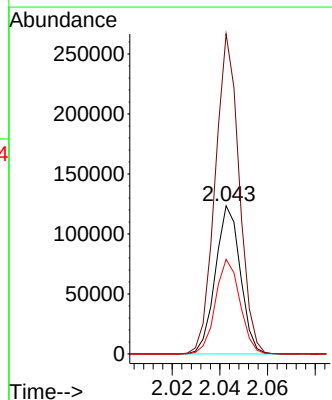
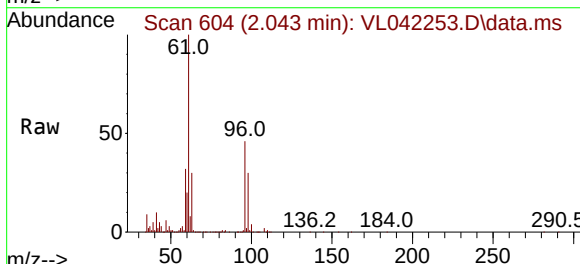
Manual Integrations
APPROVED

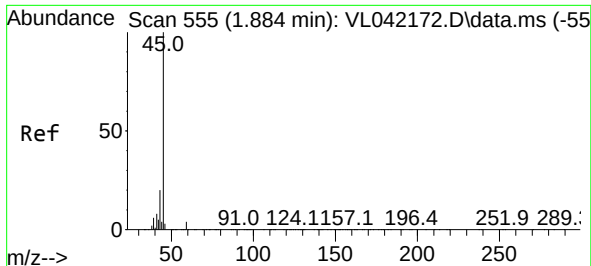
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#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





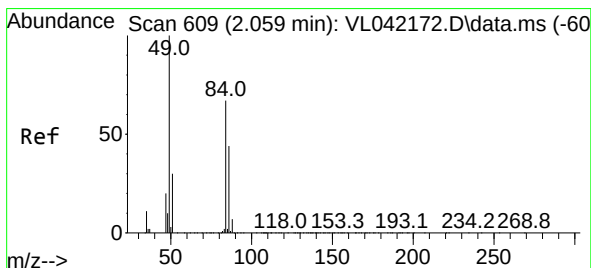
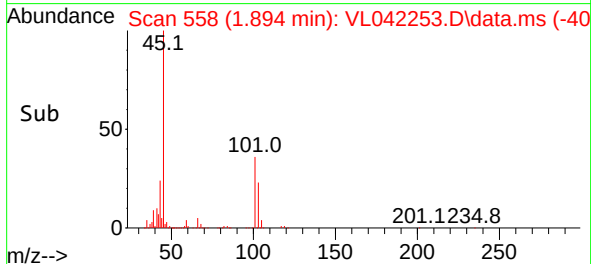
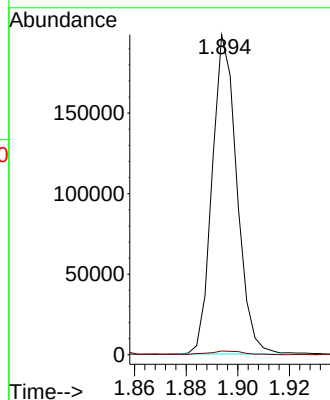
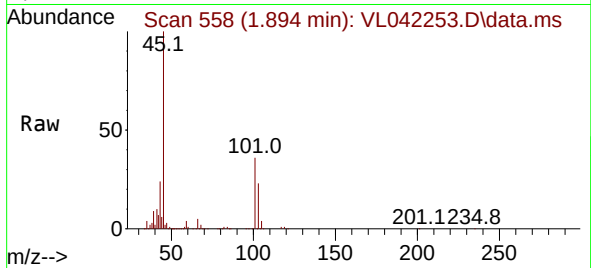
#19
Isopropyl Alcohol
Concen: 8.653 ppbv
RT: 1.894 min Scan# 510
Delta R.T. 0.010 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 131600
Ion Ratio Lower Upper
45 100
58 47.5 36.9 55.3

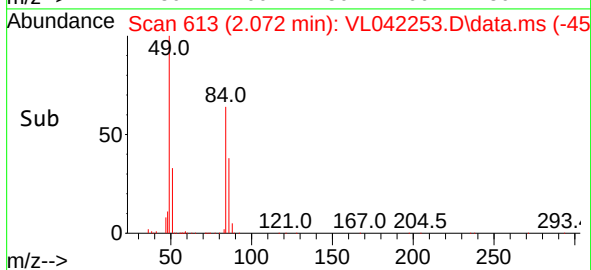
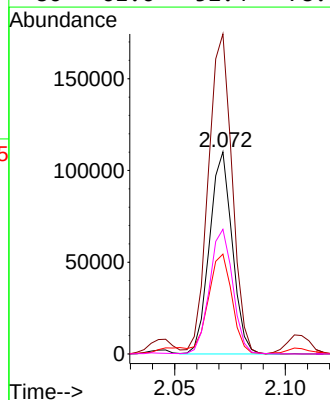
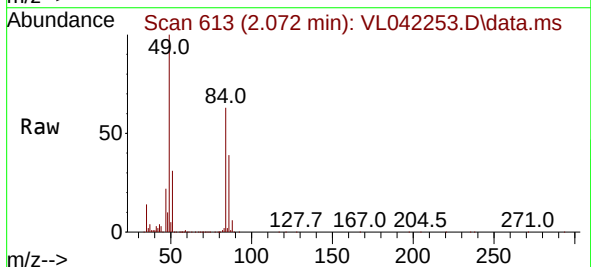
Manual Integrations
APPROVED

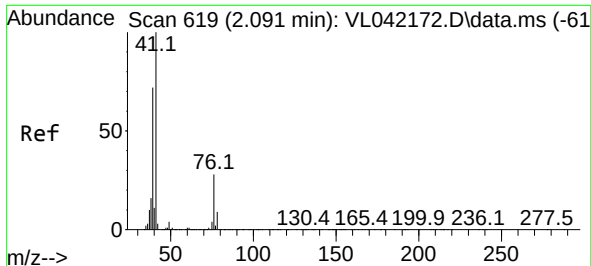
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#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# 611
 Delta R.T. 0.016 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

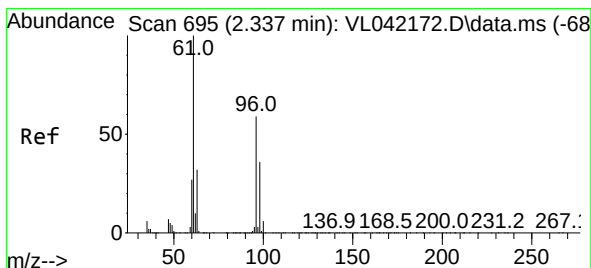
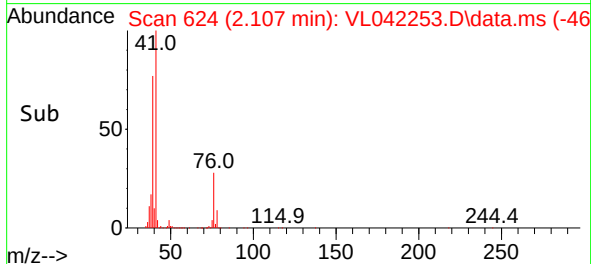
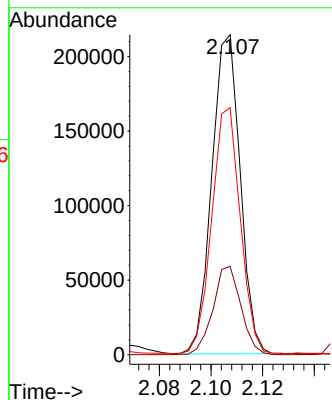
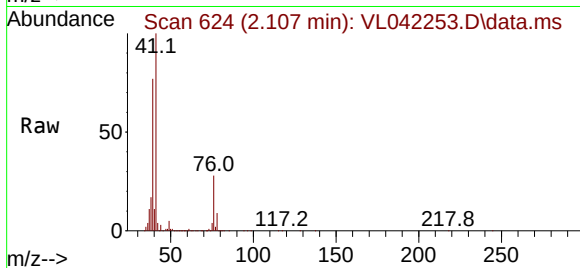
VSTDCCC010

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

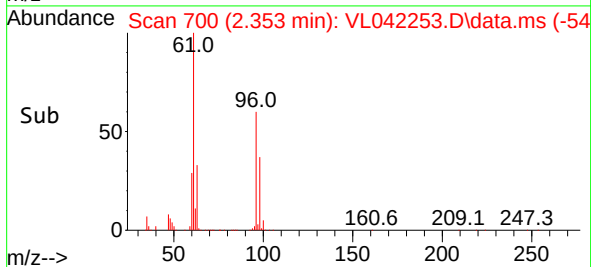
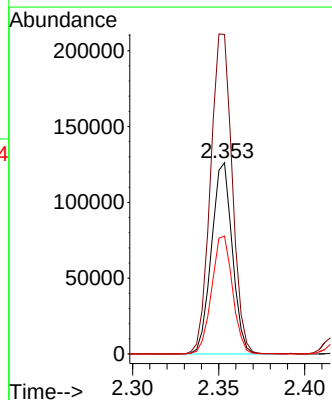
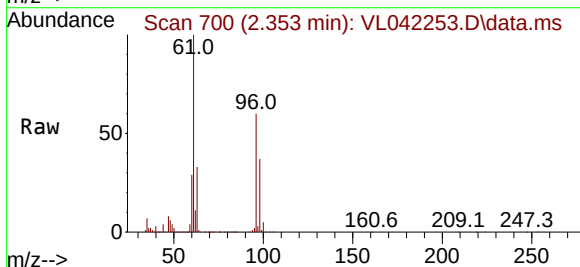
APPROVED

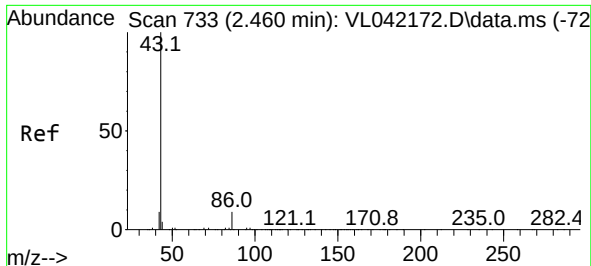
Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#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

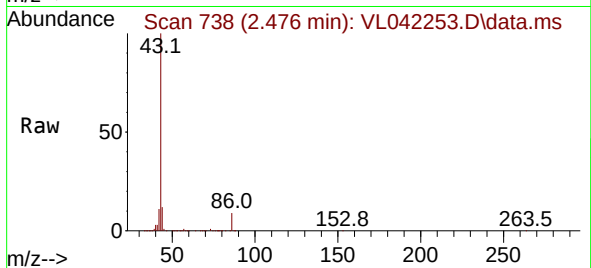
Tgt Ion: 96 Resp: 106297
 Ion Ratio Lower Upper
 96 100
 61 167.0 136.6 204.8
 98 61.7 49.4 74.2





#23
 Vinyl Acetate
 Concen: 8.313 ppbv
 RT: 2.476 min Scan# 711
 Delta R.T. 0.016 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39

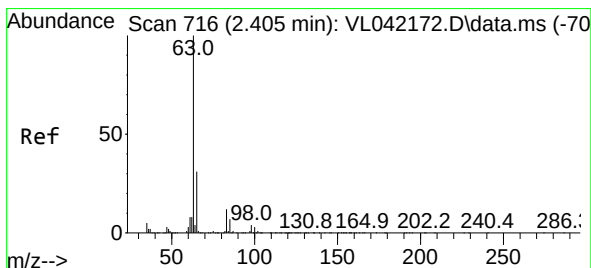
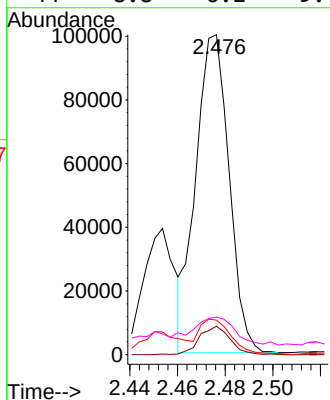
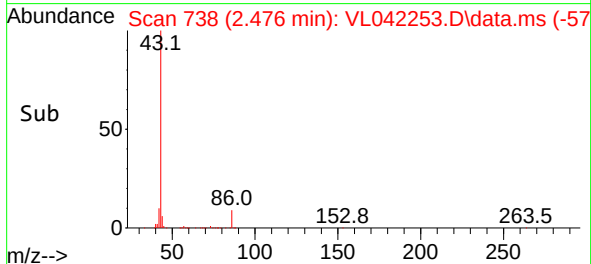
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



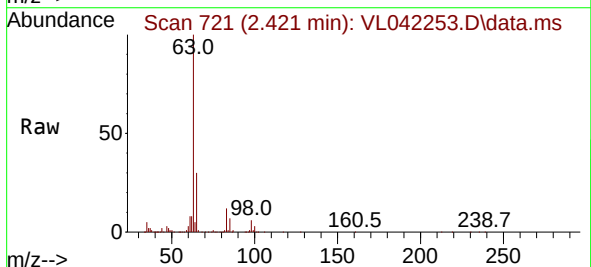
Tgt Ion: 43 Resp: 96990
 Ion Ratio Lower Upper
 43 100
 86 8.9 5.5 8.3
 42 10.5 8.6 13.0
 44 8.8 6.2 9.4

Manual Integrations
 APPROVED

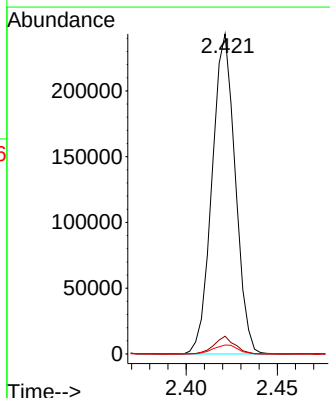
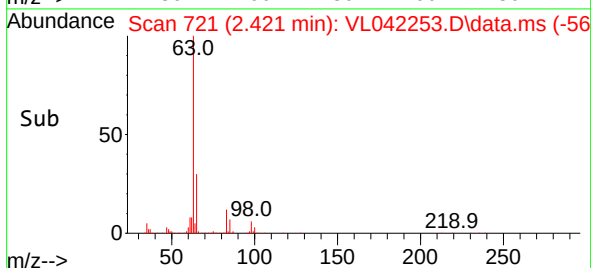
Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025

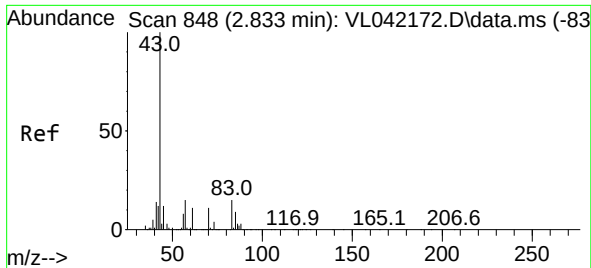


#24
 1,1-Dichloroethane
 Concen: 9.422 ppbv
 RT: 2.421 min Scan# 721
 Delta R.T. 0.016 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39



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





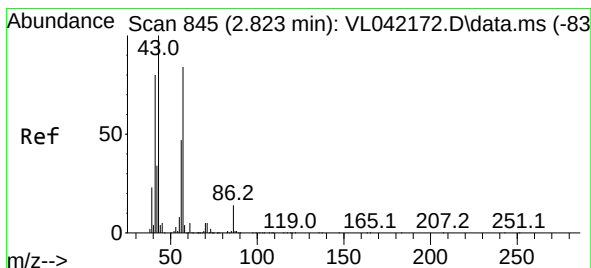
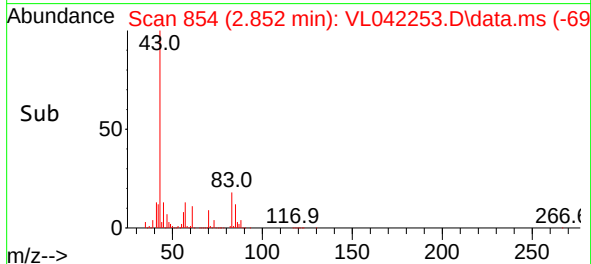
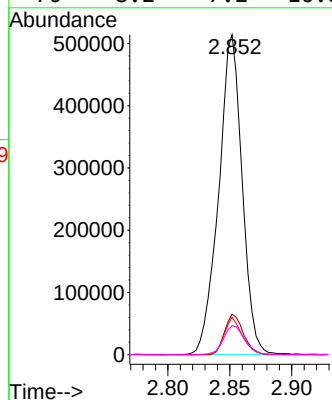
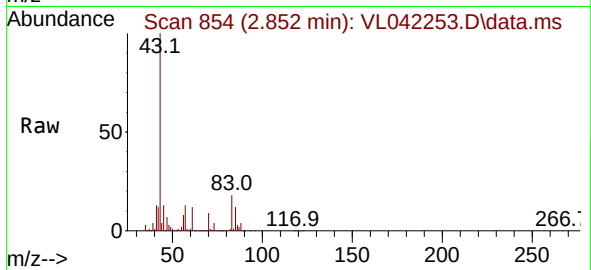
#25
Ethyl Acetate
Concen: 9.704 ppbv
RT: 2.852 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

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

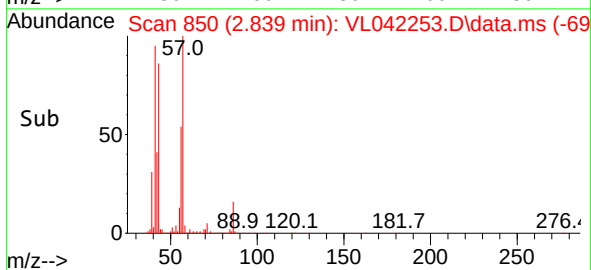
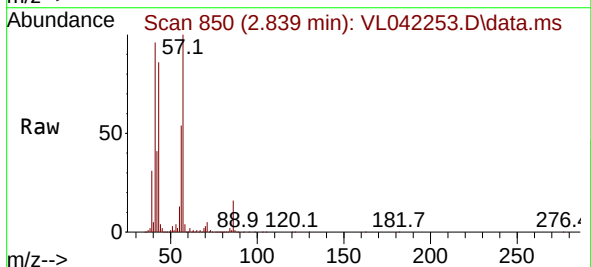
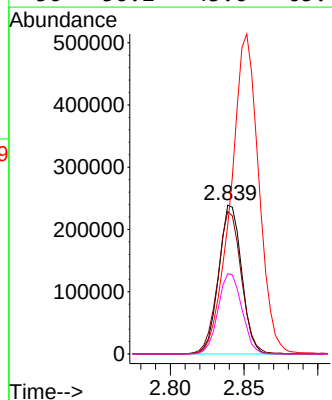
Manual Integrations
APPROVED

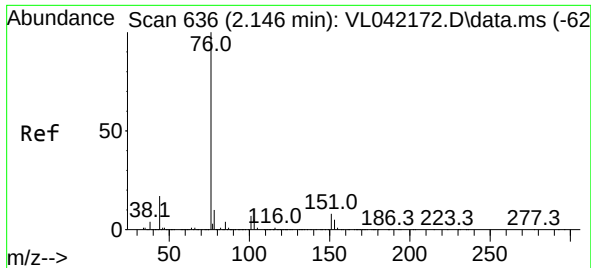
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#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

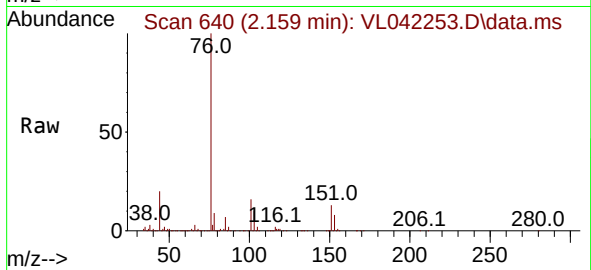
Tgt Ion: 57 Resp: 257513
Ion Ratio Lower Upper
57 100
41 99.7 76.6 114.8
43 264.2 207.8 311.8
56 56.2 43.6 65.4





#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

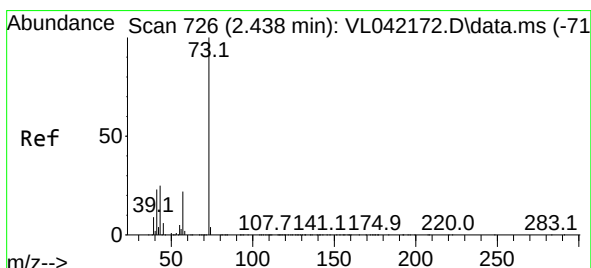
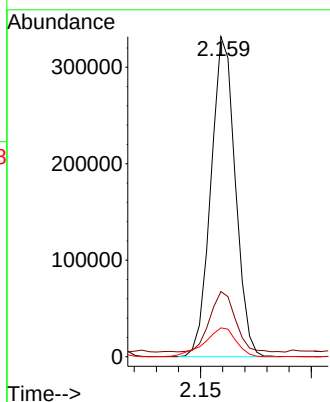
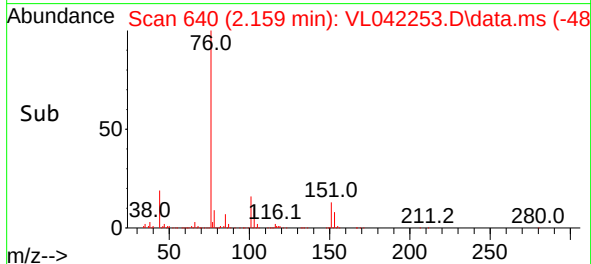
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



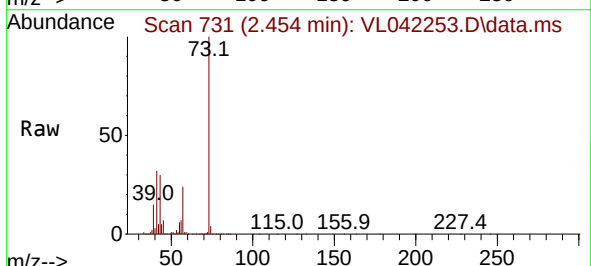
Tgt Ion: 76 Resp: 253909
Ion Ratio Lower Upper
76 100
44 20.0 14.7 22.1
78 11.7 9.3 13.9

Manual Integrations
APPROVED

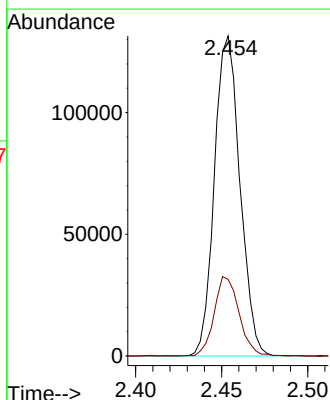
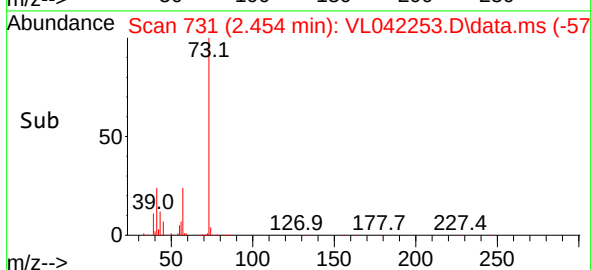
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

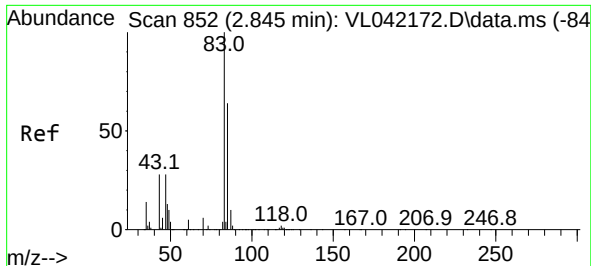


#28
Methyl tert-Butyl Ether
Concen: 8.078 ppbv
RT: 2.454 min Scan# 731
Delta R.T. 0.016 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39



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

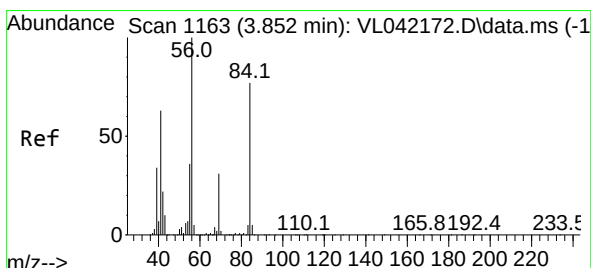
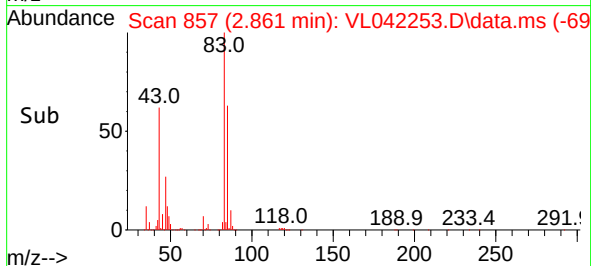
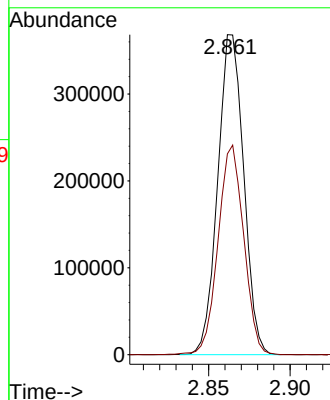
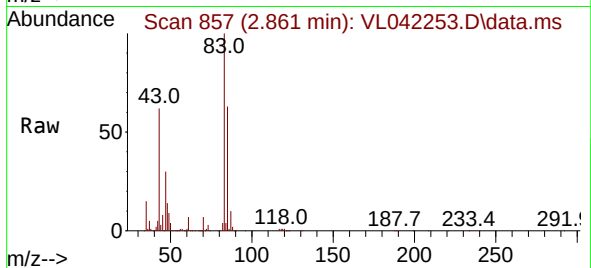
85 62.7 51.4 77.2

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

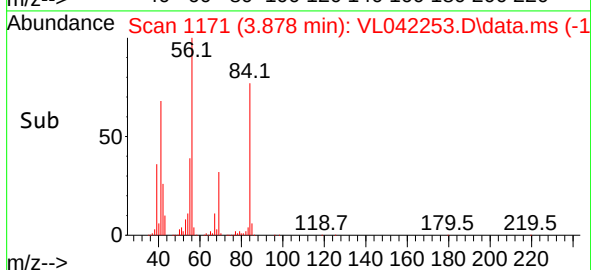
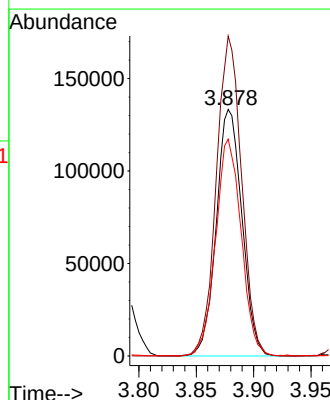
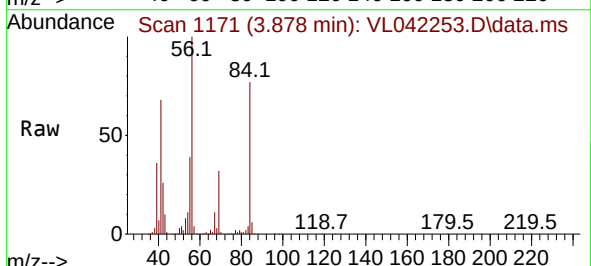
Tgt Ion: 84 Resp: 207216

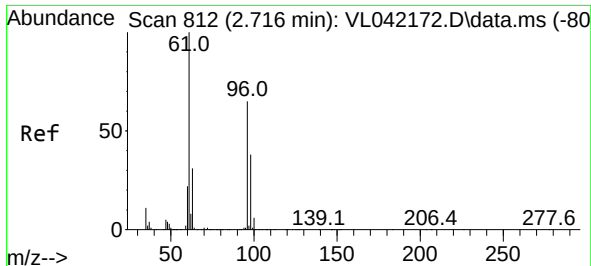
Ion Ratio Lower Upper

84 100

56 127.8 102.8 154.2

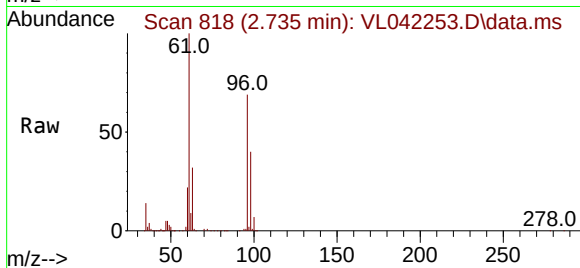
41 88.0 66.5 99.7





#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

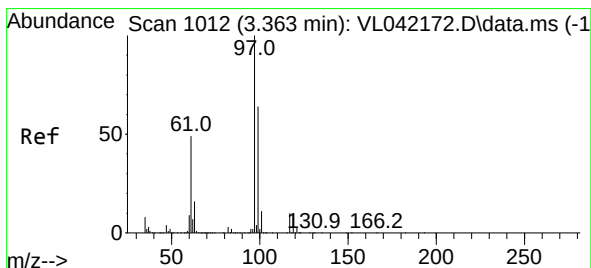
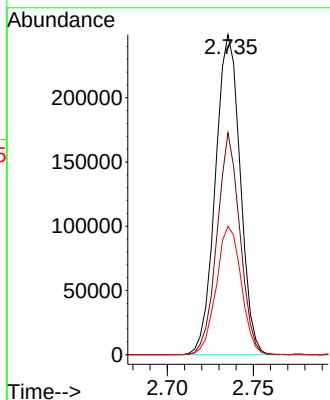
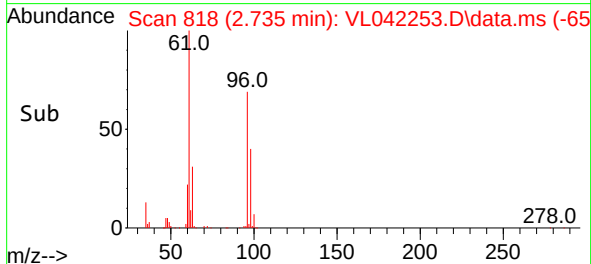
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



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

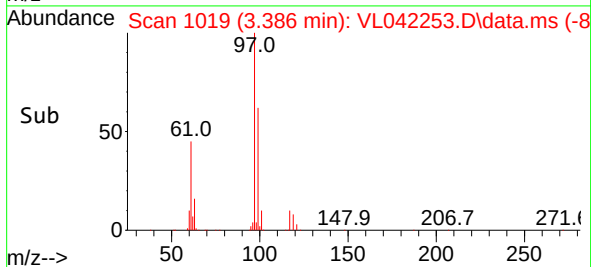
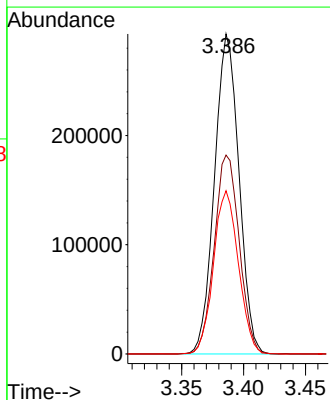
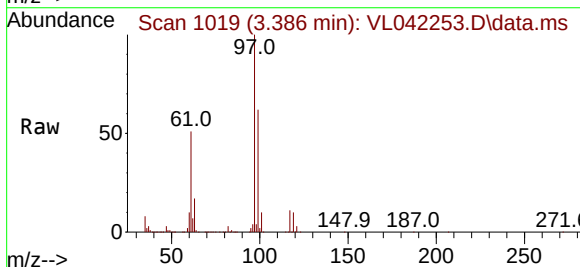
Manual Integrations
 APPROVED

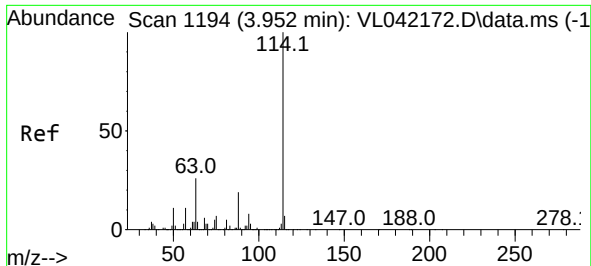
Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#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 :

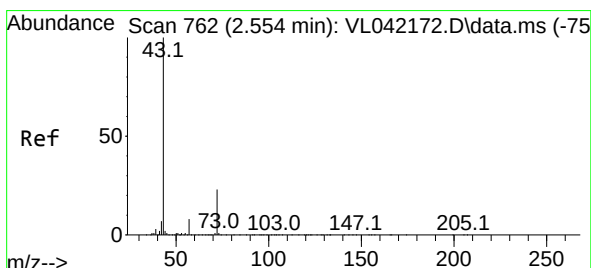
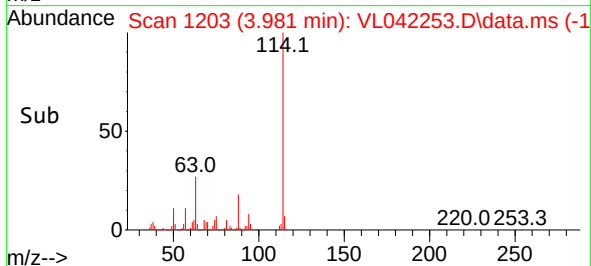
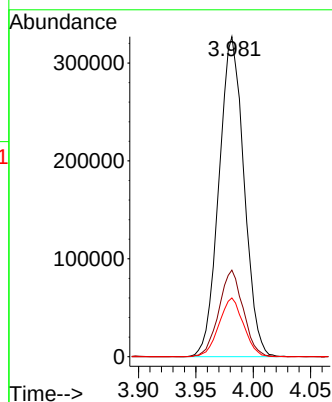
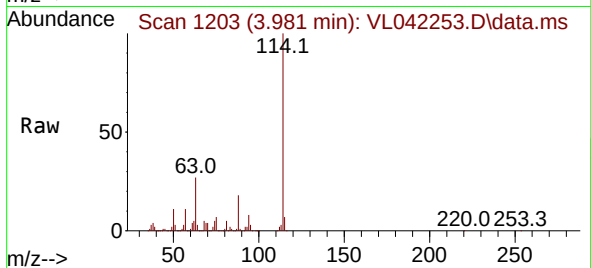
VSTDCCC010

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

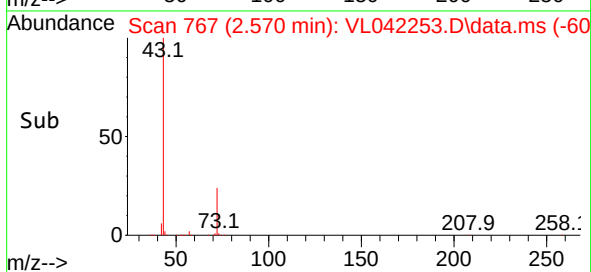
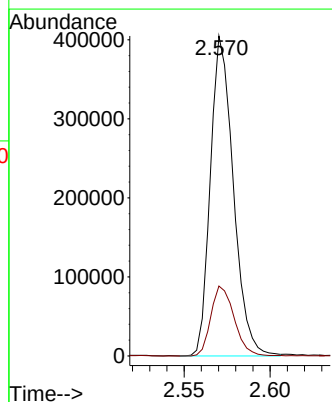
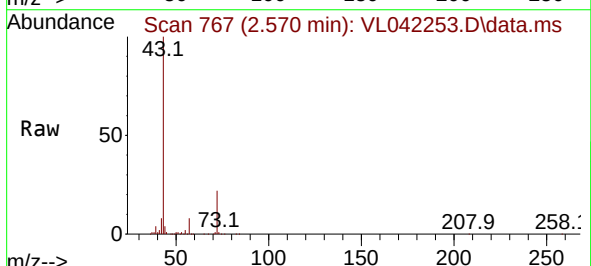
RT: 2.570 min Scan# 767

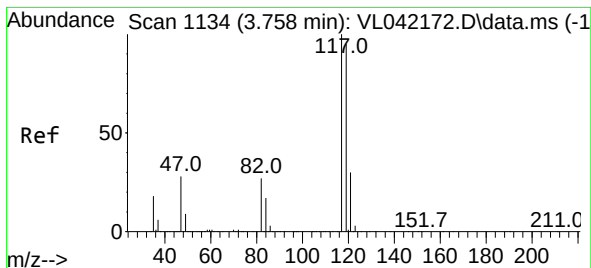
Delta R.T. 0.016 min

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

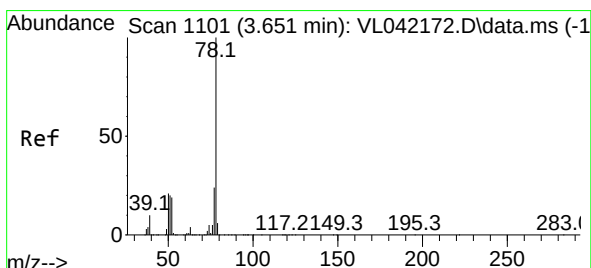
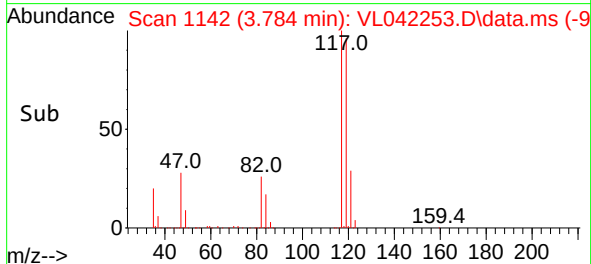
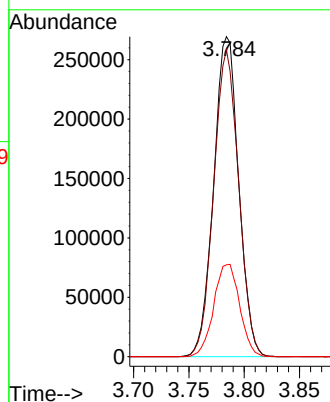
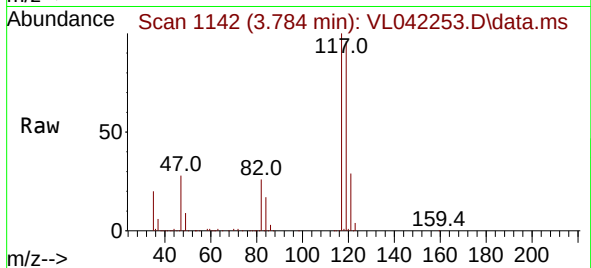
Tgt Ion:117 Resp: 42386

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

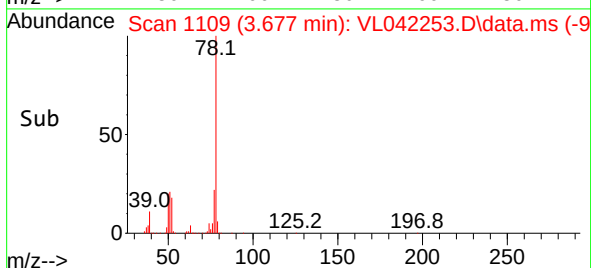
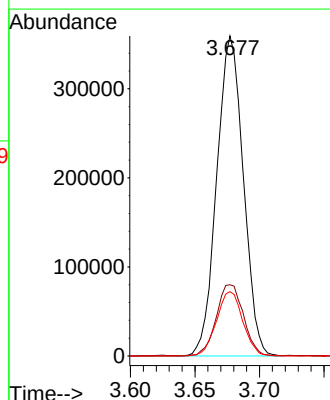
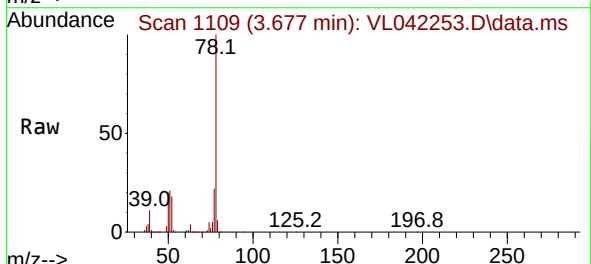
Delta R.T. 0.026 min

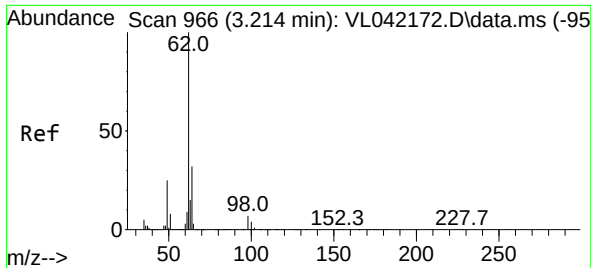
Lab File: VL042253.D

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





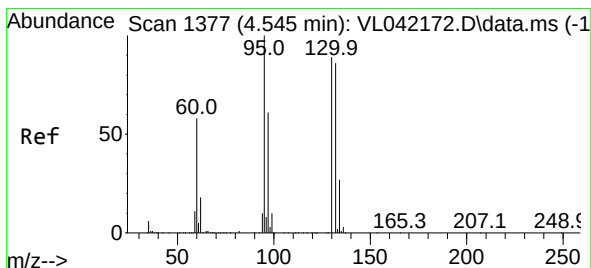
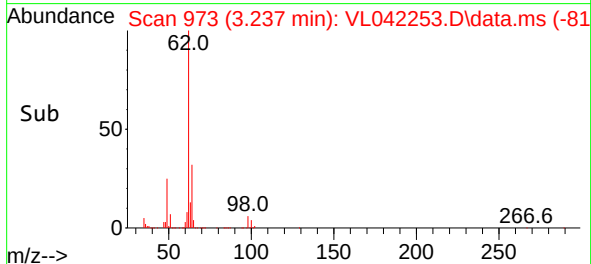
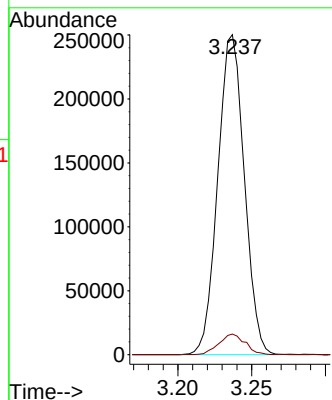
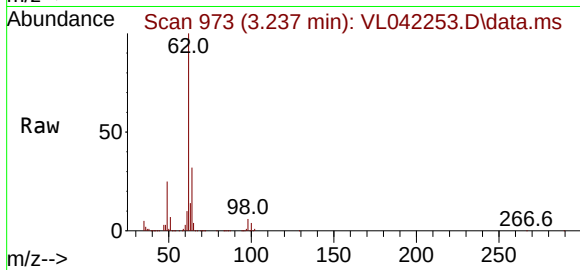
#37
1,2-Dichloroethane
Concen: 11.119 ppbv
RT: 3.237 min Scan# 91
Delta R.T. 0.023 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 313194
Ion Ratio Lower Upper
62 100
98 6.4 5.4 8.2

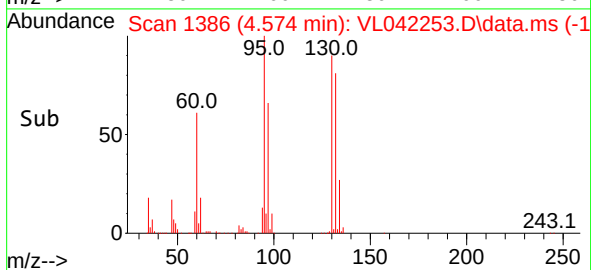
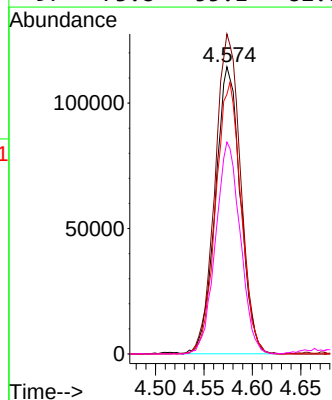
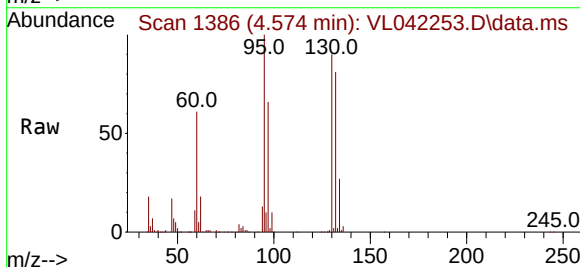
Manual Integrations
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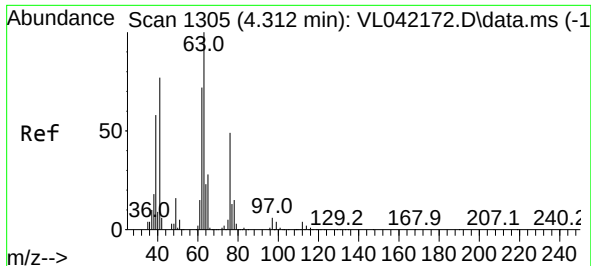
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#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

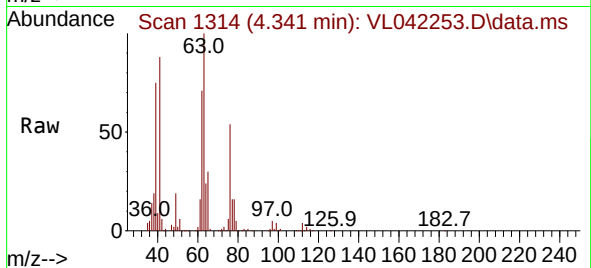
Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010



Tgt Ion: 63 Resp: 188150

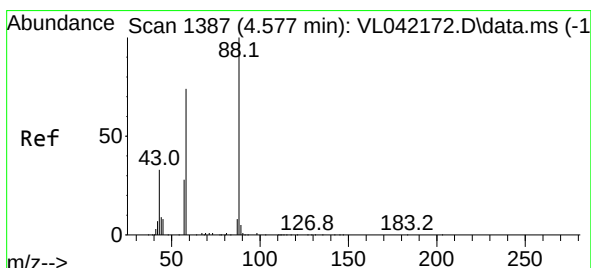
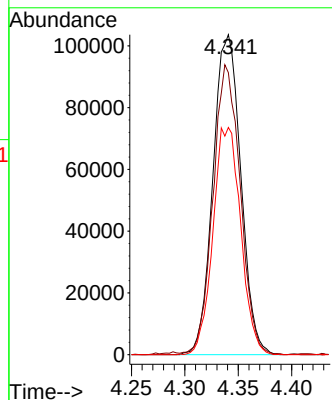
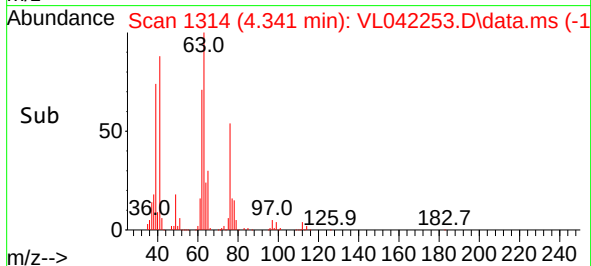
Ion	Ratio	Lower	Upper
63	100		
41	87.9	61.7	92.5
62	70.9	57.6	86.4

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

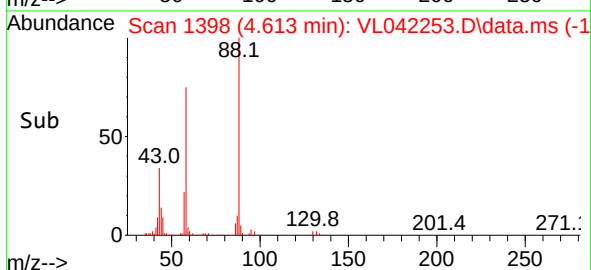
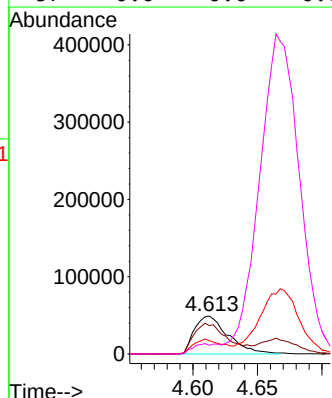
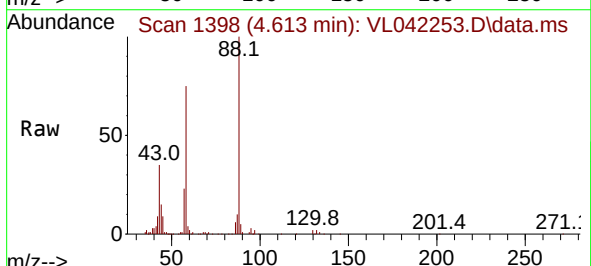
Delta R.T. 0.035 min

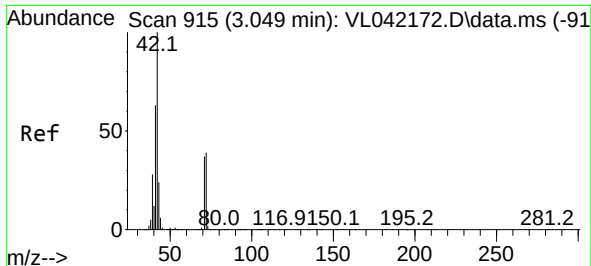
Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Tgt Ion: 88 Resp: 89479

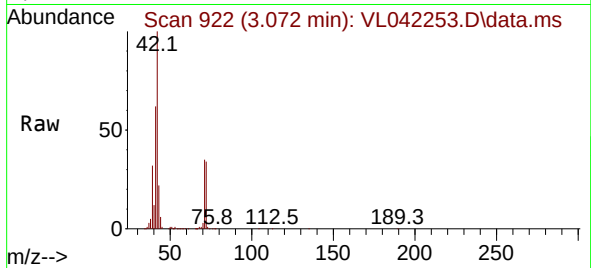
Ion	Ratio	Lower	Upper
88	100		
58	78.8	62.7	94.1
43	35.2	23.0	34.4#
57	0.0	0.0	0.0





#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

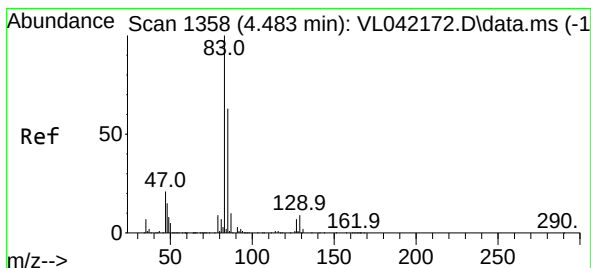
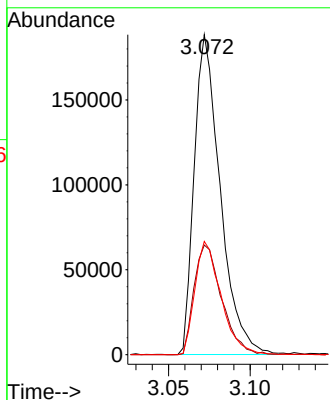
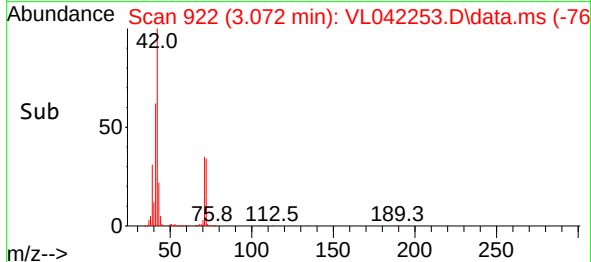
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



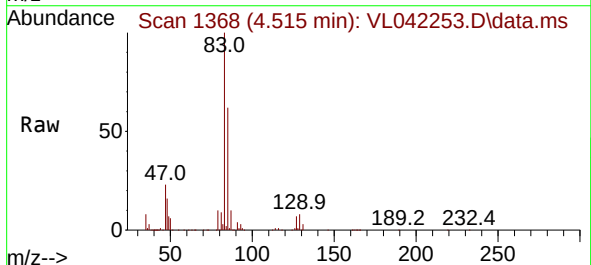
Tgt Ion: 42 Resp: 208730
Ion Ratio Lower Upper
42 100
72 36.5 31.4 47.0
71 35.6 30.2 45.4

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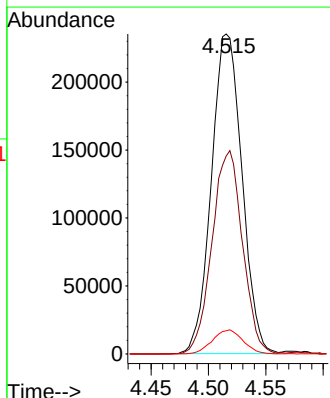
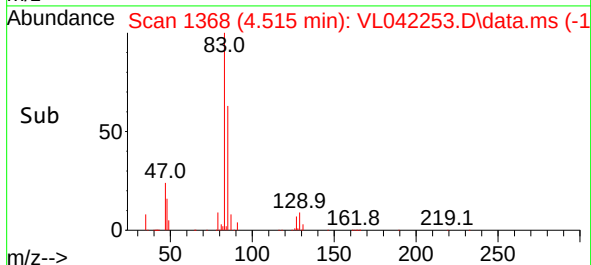
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

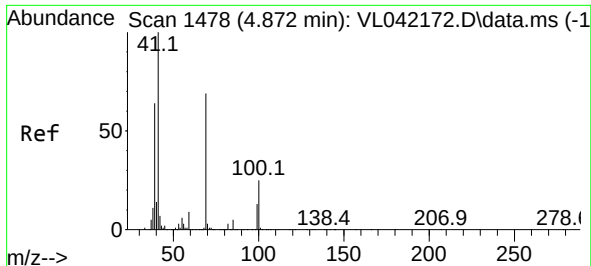


#42
Bromodichloromethane
Concen: 11.230 ppbv
RT: 4.515 min Scan# 1368
Delta R.T. 0.032 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39



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





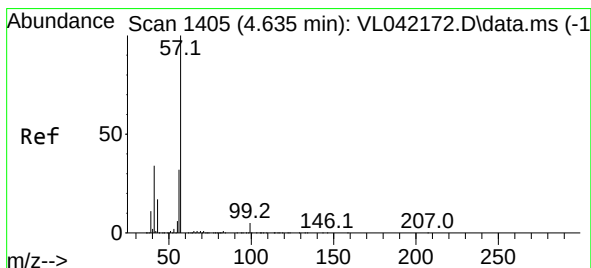
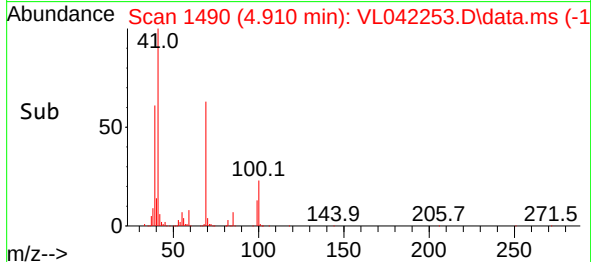
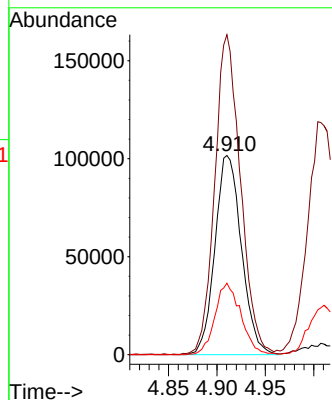
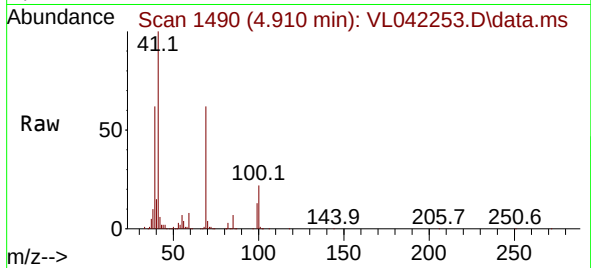
#43
Methyl Methacrylate
Concen: 9.288 ppbv
RT: 4.910 min Scan# 1478
Delta R.T. 0.039 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

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

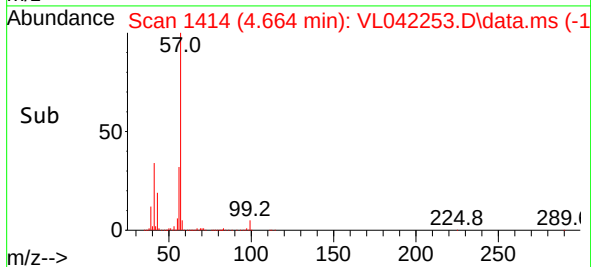
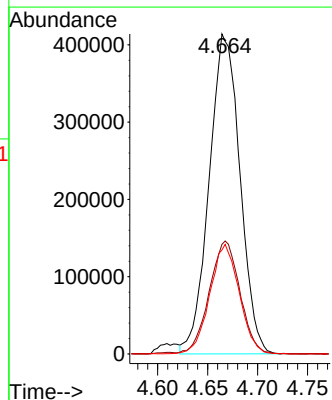
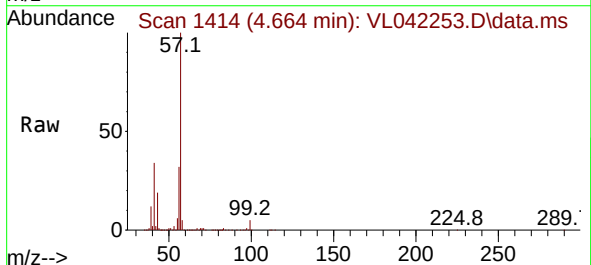
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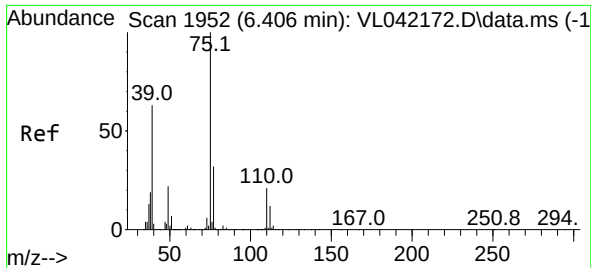
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#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

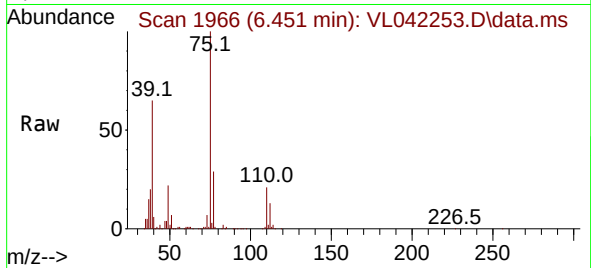
Tgt Ion: 57 Resp: 888509
Ion Ratio Lower Upper
57 100
41 35.5 26.8 40.2
56 32.8 25.6 38.4





#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

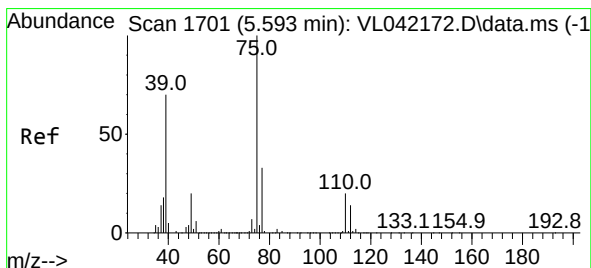
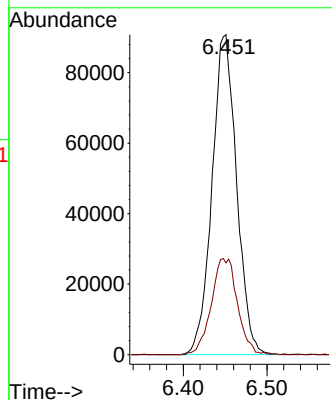
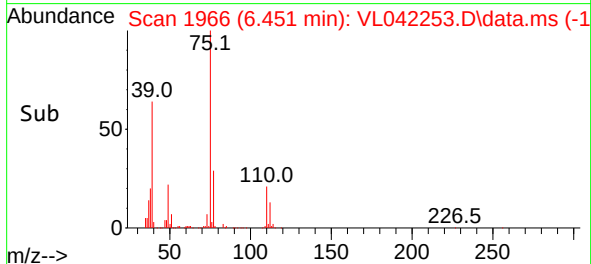
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 75 Resp: 18486
Ion Ratio Lower Upper
75 100
77 28.7 26.0 39.0

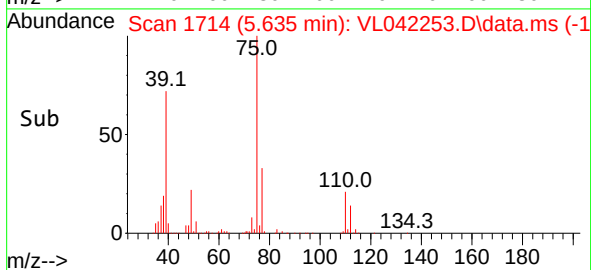
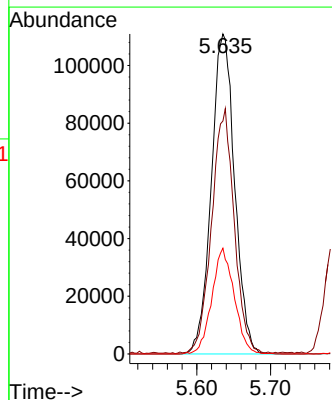
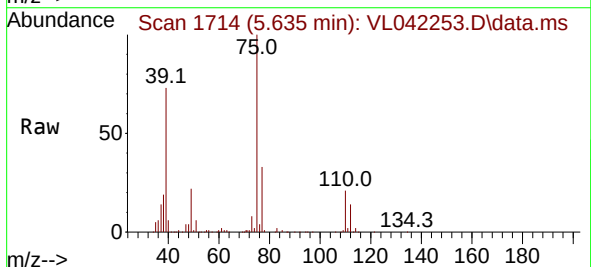
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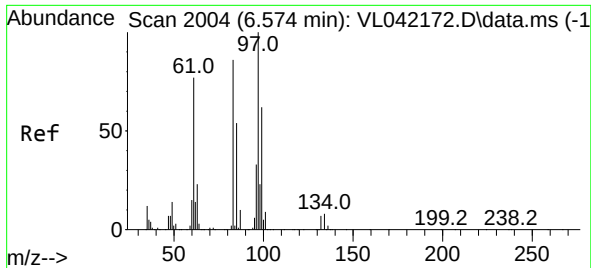
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#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





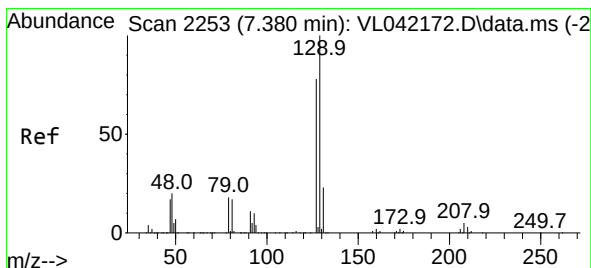
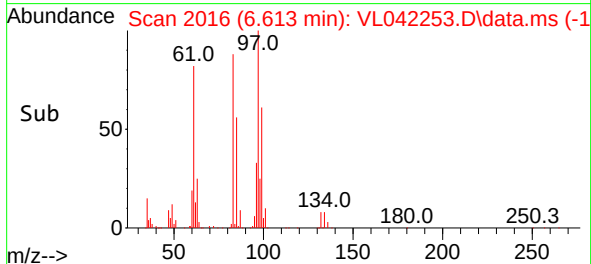
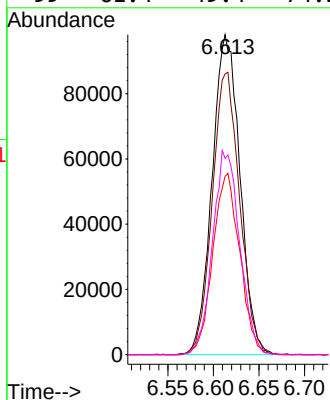
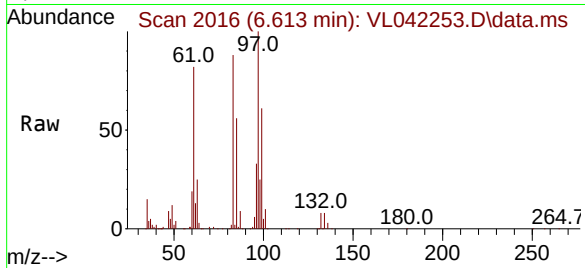
#47
1,1,2-Trichloroethane
Concen: 11.011 ppbv
RT: 6.613 min Scan# 20
Delta R.T. 0.039 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

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

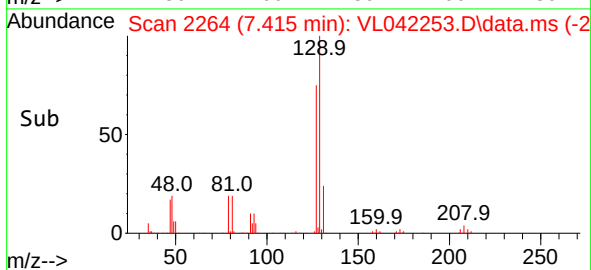
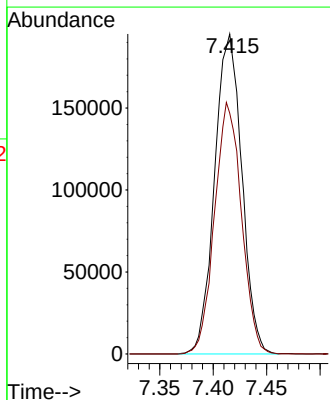
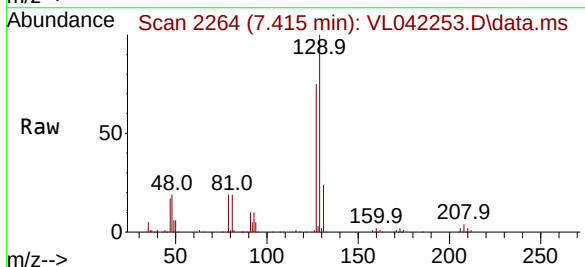
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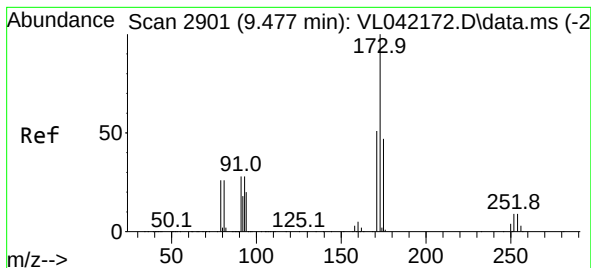
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#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 :

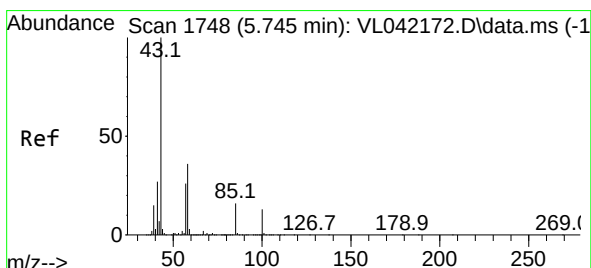
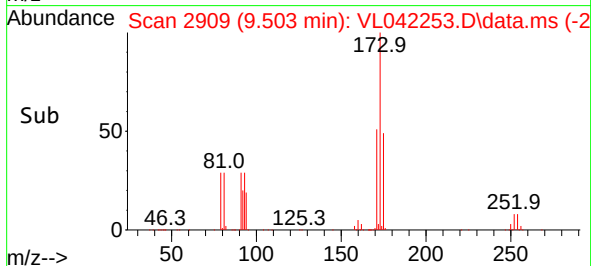
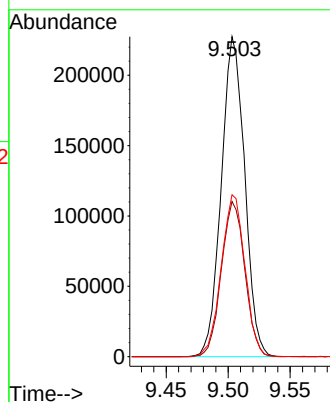
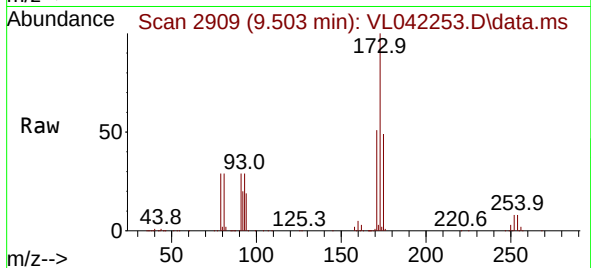
VSTDCCC010

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

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



#50

4-Methyl-2-Pentanone

Concen: 9.519 ppbv

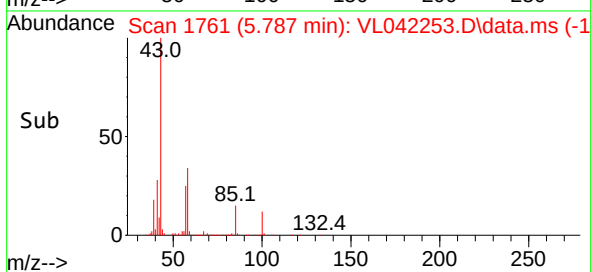
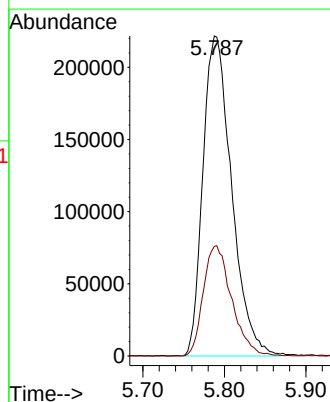
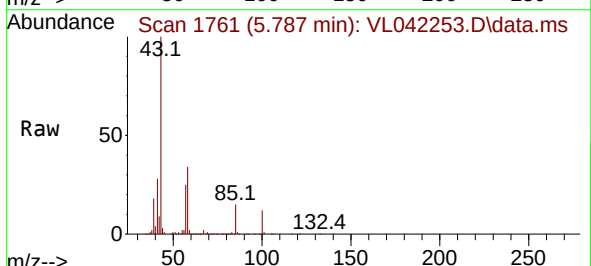
RT: 5.787 min Scan# 1761

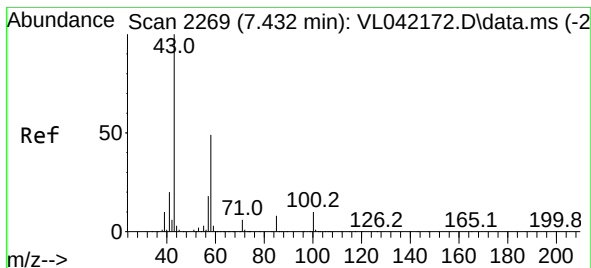
Delta R.T. 0.042 min

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

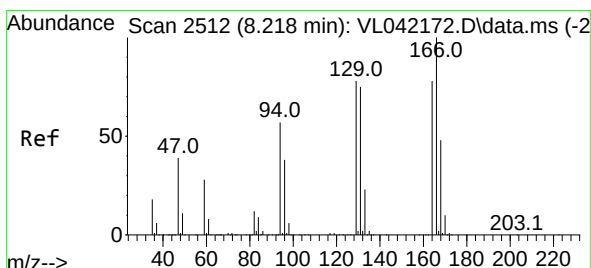
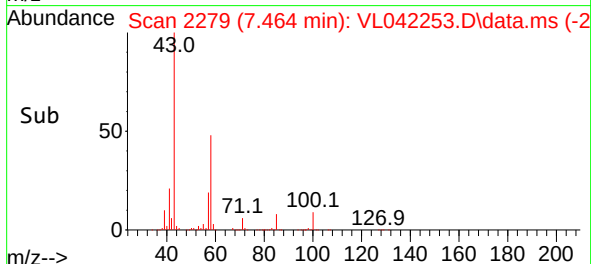
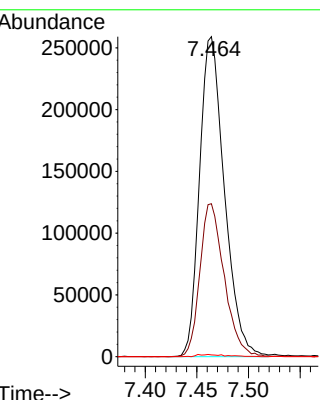
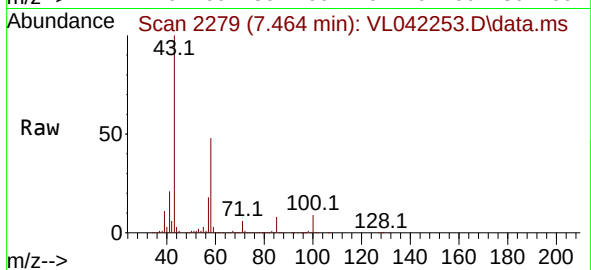
98 0.8 0.1 0.1

Manual Integrations

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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

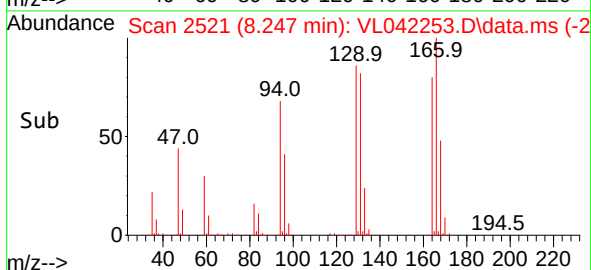
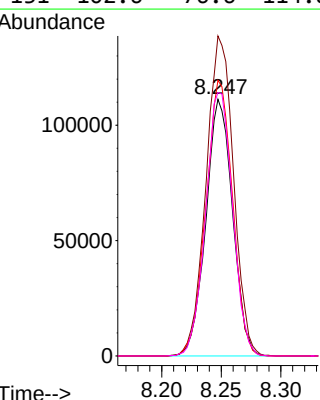
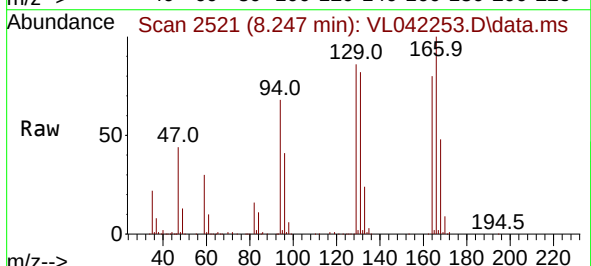
Ion Ratio Lower Upper

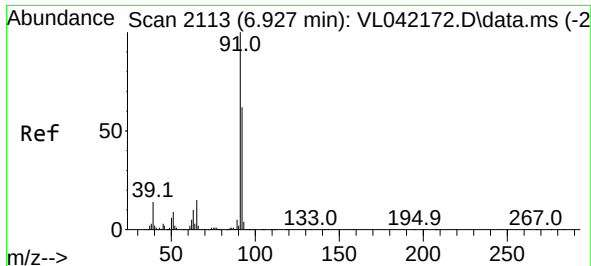
164 100

166 124.7 102.5 153.7

129 107.4 79.8 119.8

131 102.6 76.6 114.8





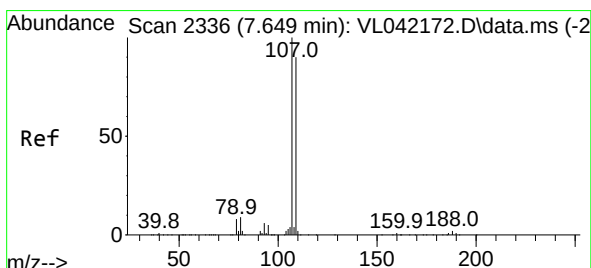
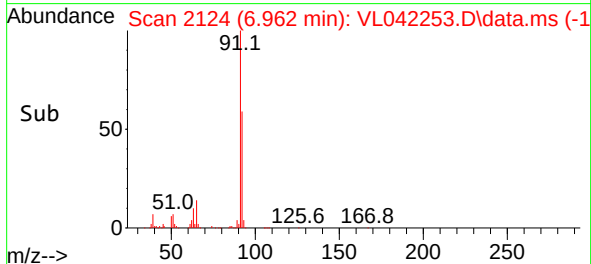
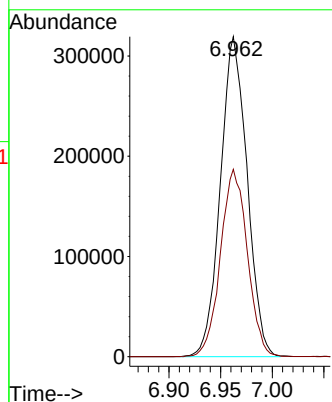
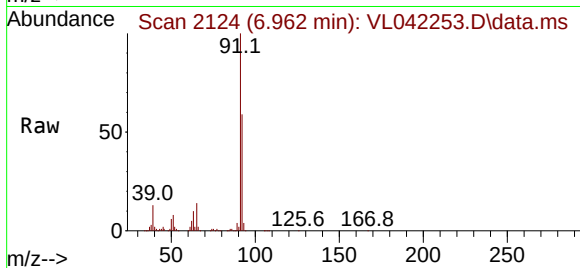
#53
Toluene
Concen: 9.853 ppbv
RT: 6.962 min Scan# 2113
Delta R.T. 0.035 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 574664
Ion Ratio Lower Upper
91 100
92 59.1 48.4 72.6

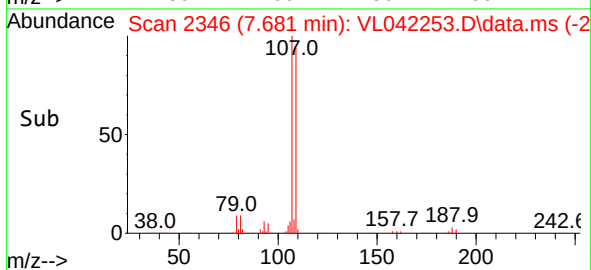
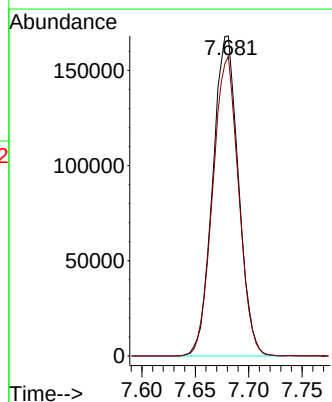
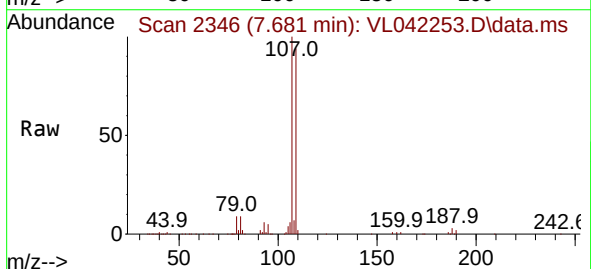
Manual Integrations
APPROVED

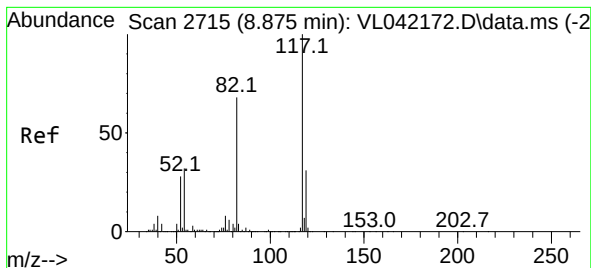
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#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

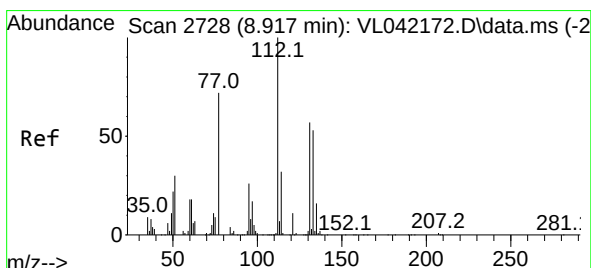
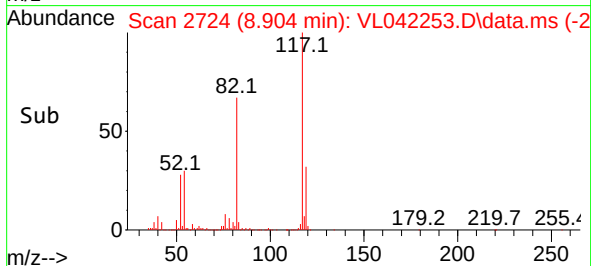
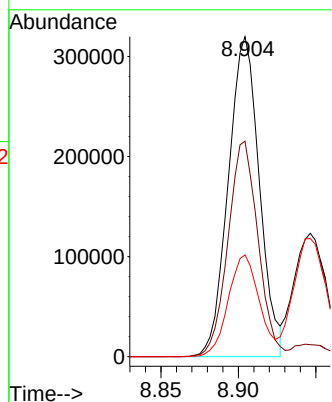
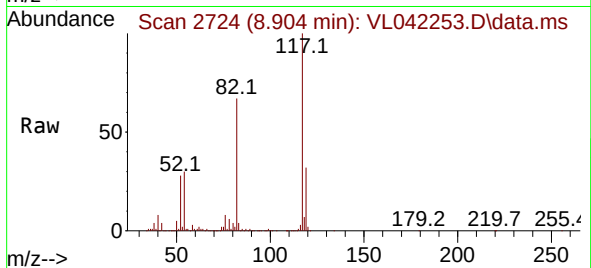
Tgt Ion:117 Resp: 446954

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

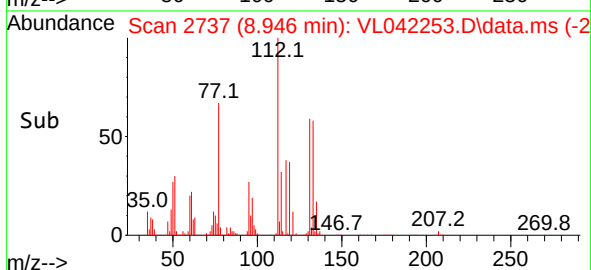
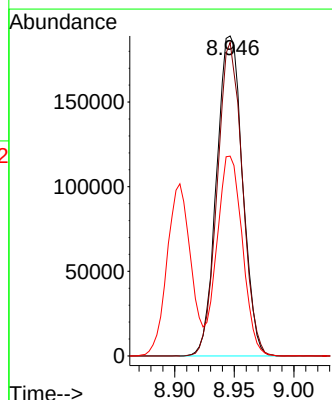
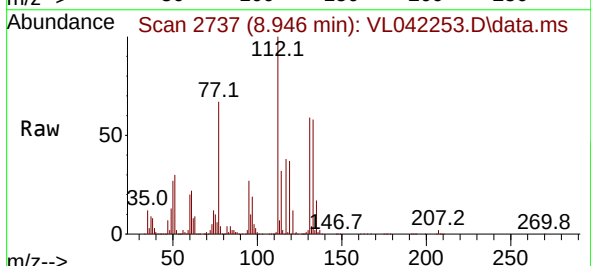
Delta R.T. 0.029 min

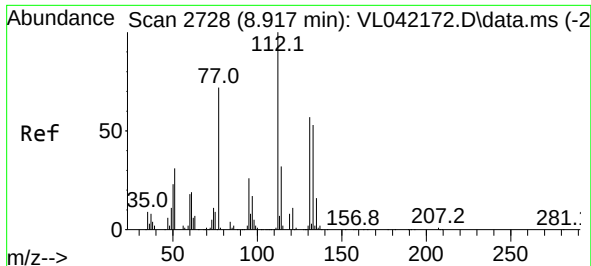
Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Tgt Ion:131 Resp: 286554

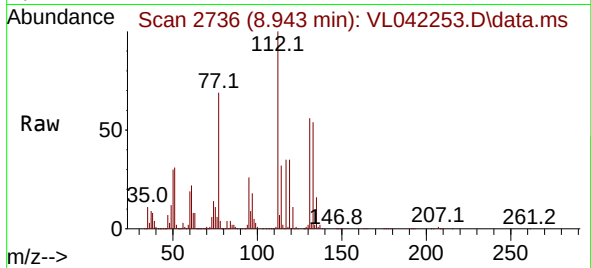
Ion	Ratio	Lower	Upper
131	100		
133	94.6	76.6	114.8
119	62.4	49.8	74.6





#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

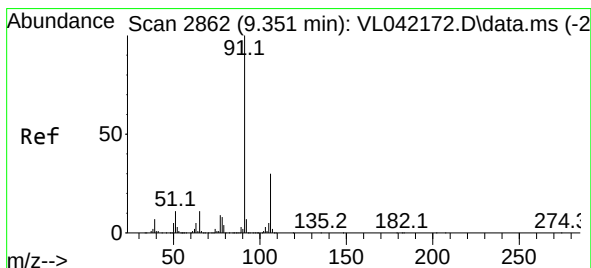
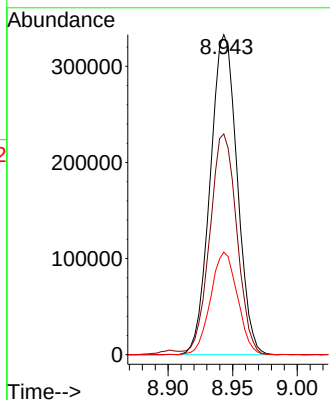
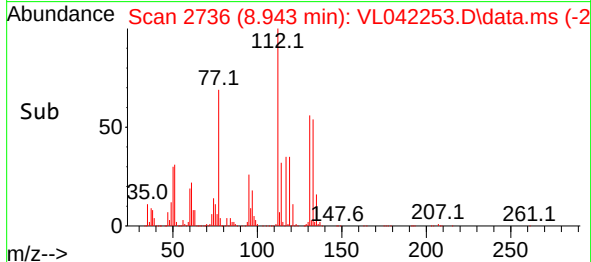
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



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

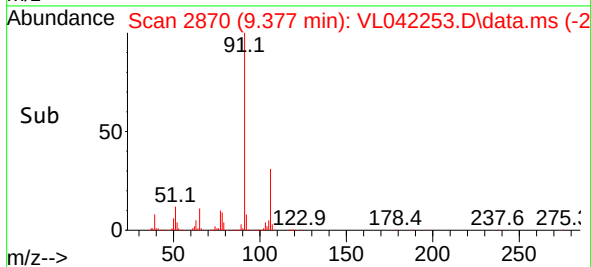
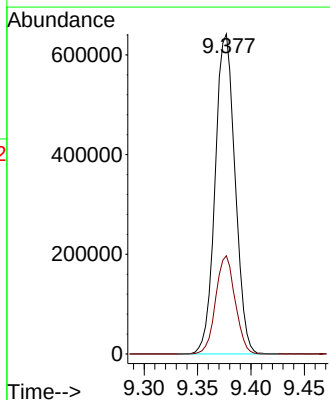
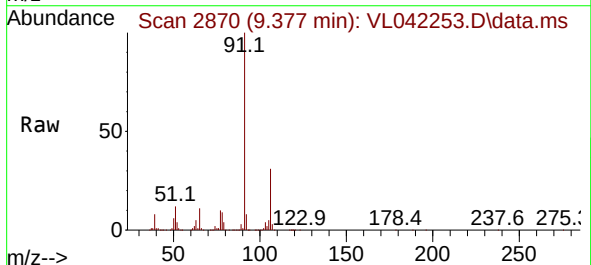
Manual Integrations
APPROVED

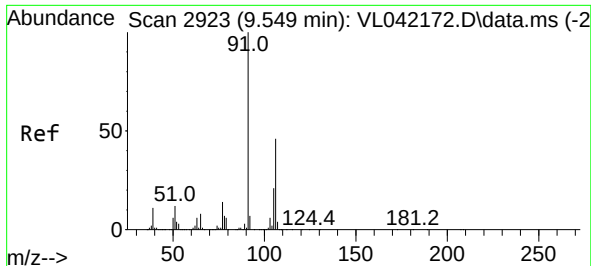
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#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

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

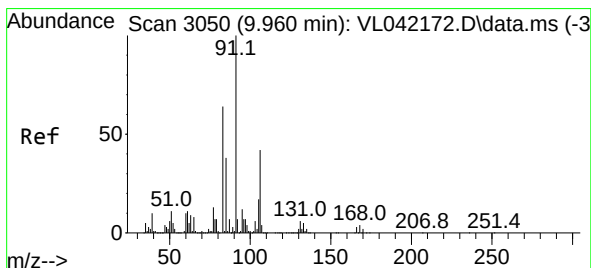
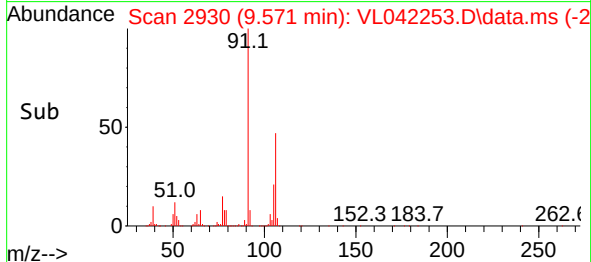
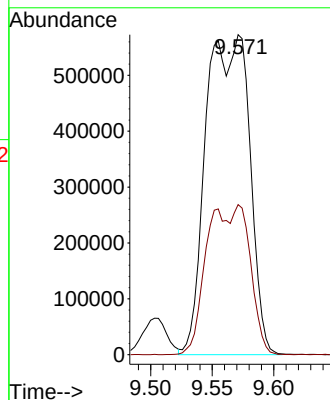
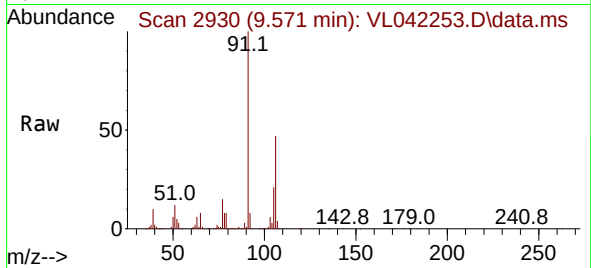
106 46.4 36.4 54.6

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

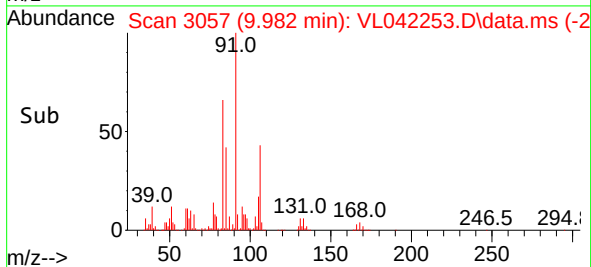
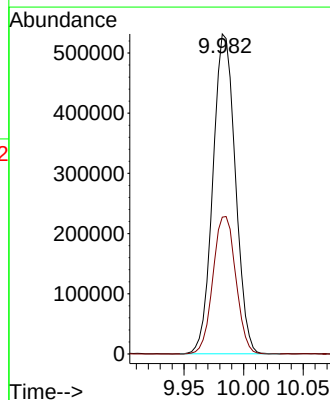
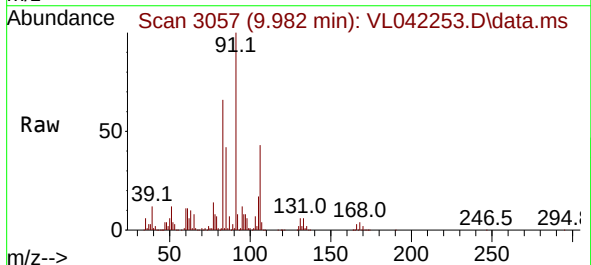
Acq: 08 Apr 2025 08:39

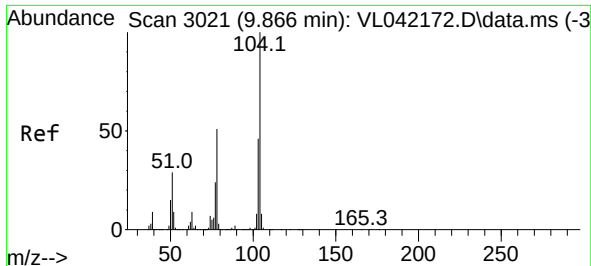
Tgt Ion: 91 Resp: 696371

Ion Ratio Lower Upper

91 100

106 43.8 20.8 62.5





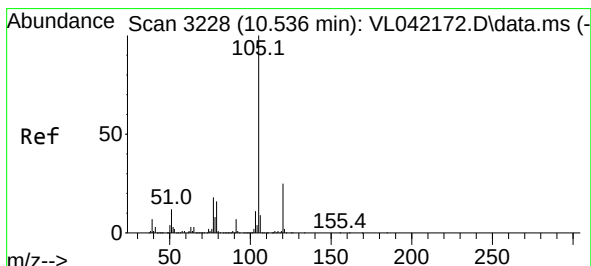
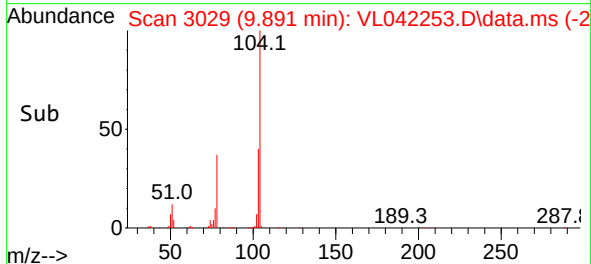
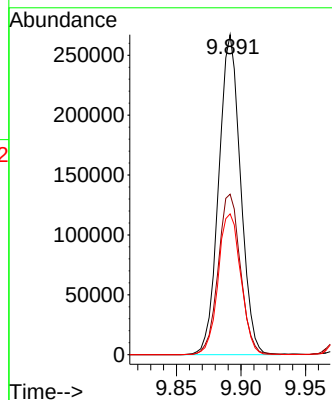
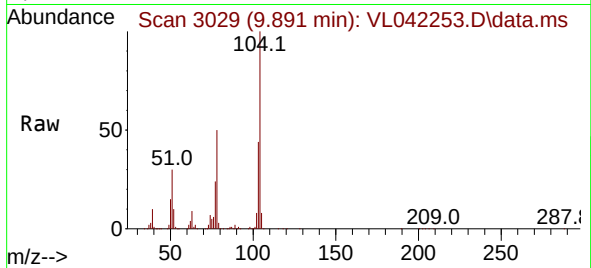
#61
Styrene
Concen: 9.965 ppbv
RT: 9.891 min Scan# 3021
Delta R.T. 0.026 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

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

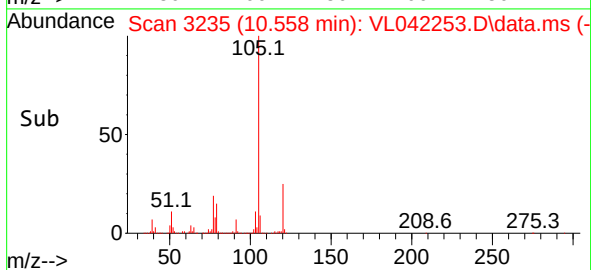
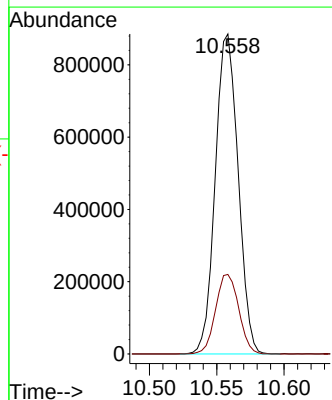
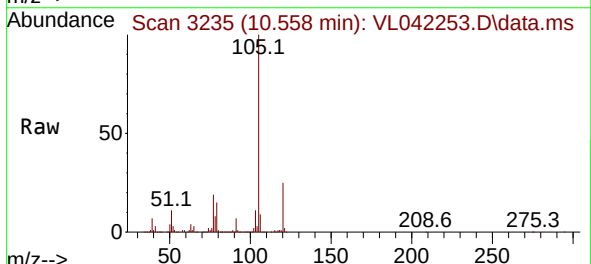
Manual Integrations
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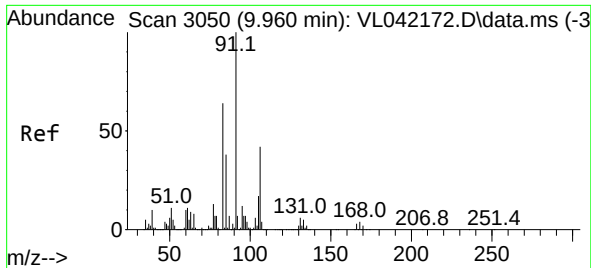
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#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

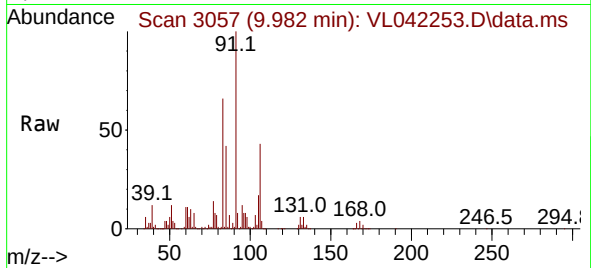
Tgt Ion:105 Resp: 1044218
Ion Ratio Lower Upper
105 100
120 25.2 19.9 29.9





#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

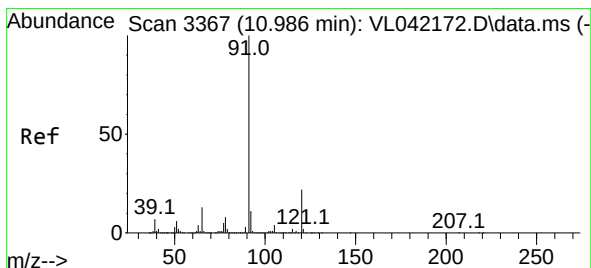
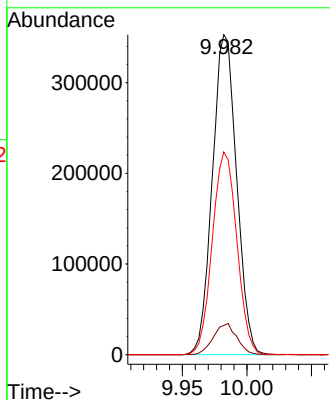
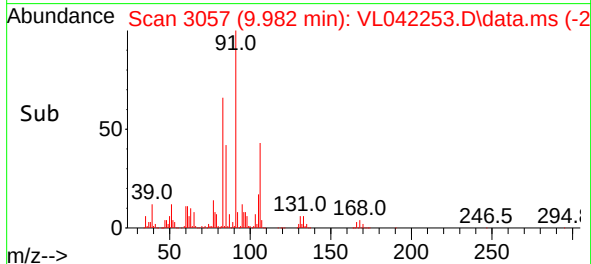
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



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

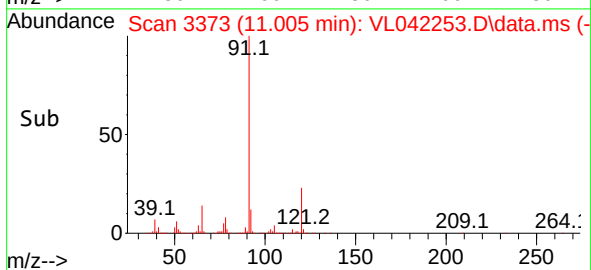
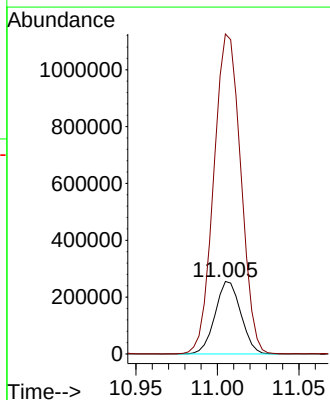
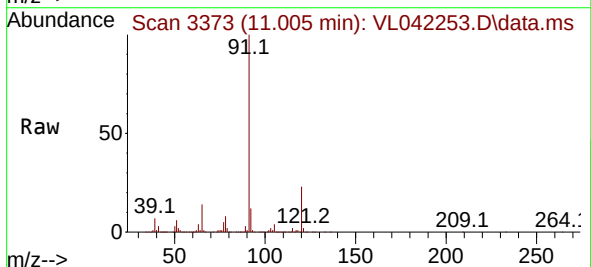
Manual Integrations
APPROVED

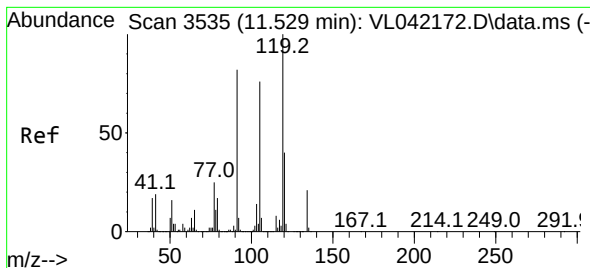
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#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

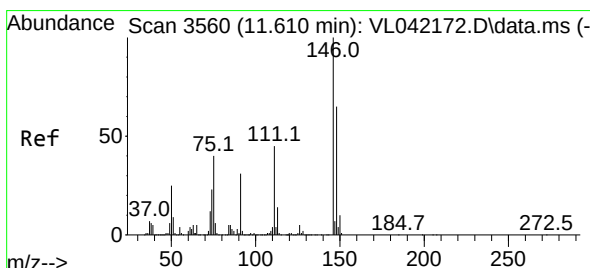
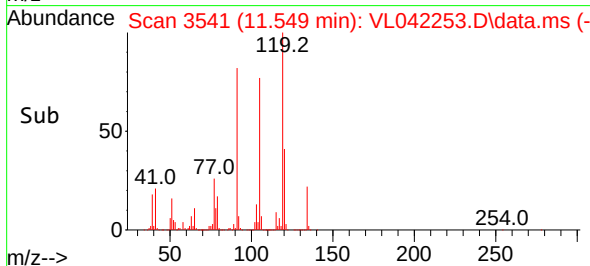
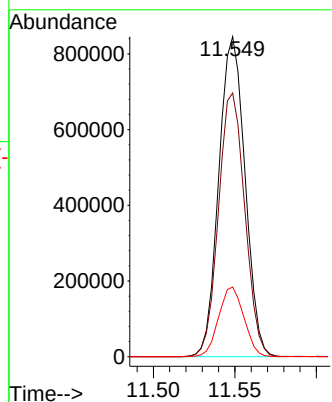
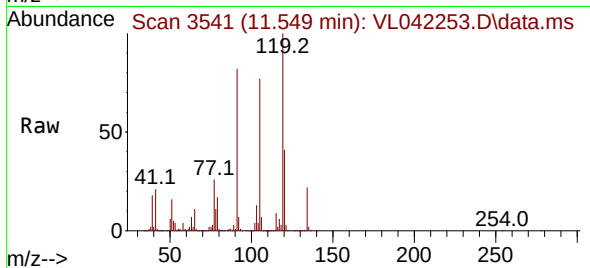
134 21.0 16.7 25.1

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

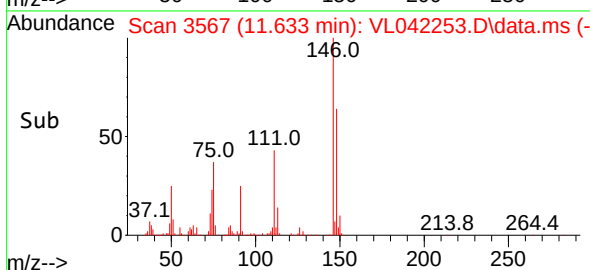
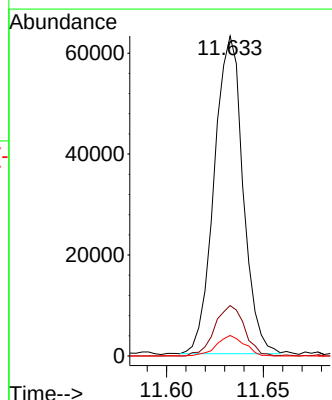
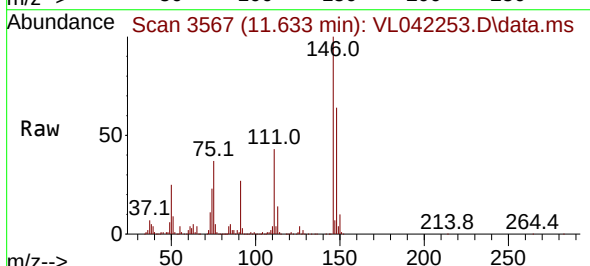
Tgt Ion: 91 Resp: 65203

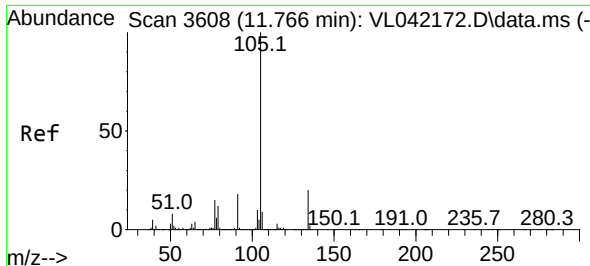
Ion Ratio Lower Upper

91 100

126 16.6 13.8 20.6

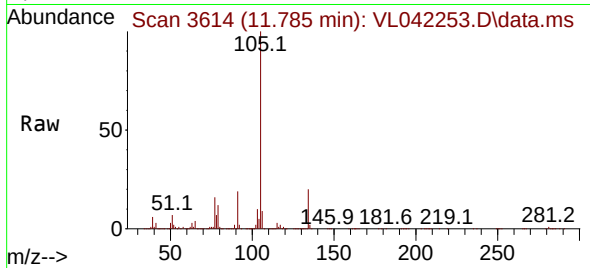
128 6.3 4.5 6.7





#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

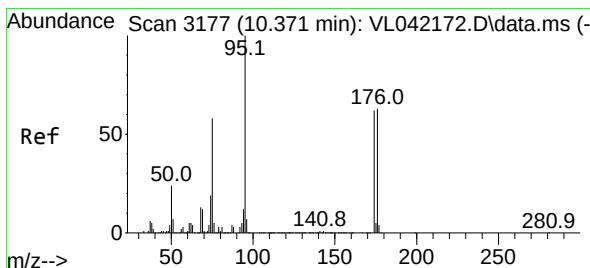
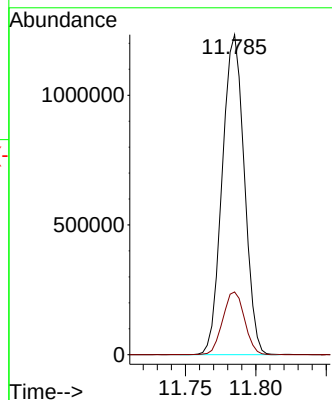
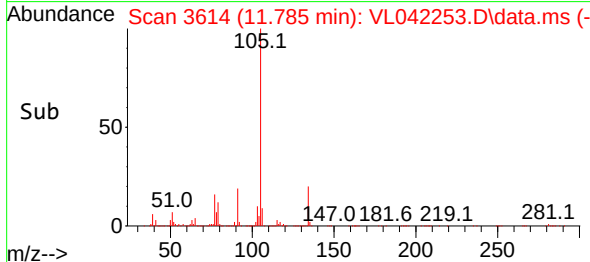
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion: 105 Resp: 1343060
 Ion Ratio Lower Upper
 105 100
 134 19.4 15.5 23.3

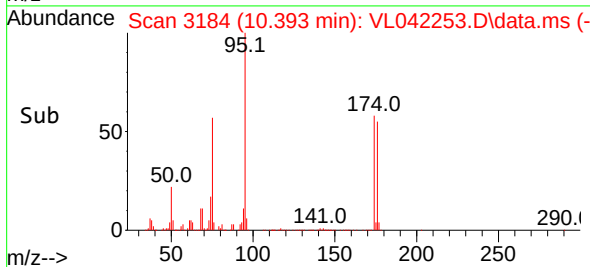
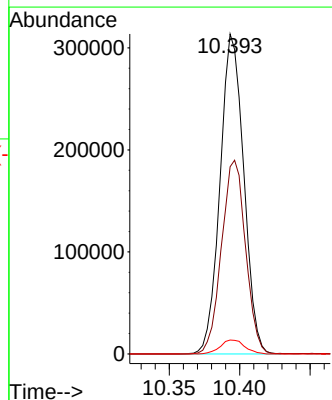
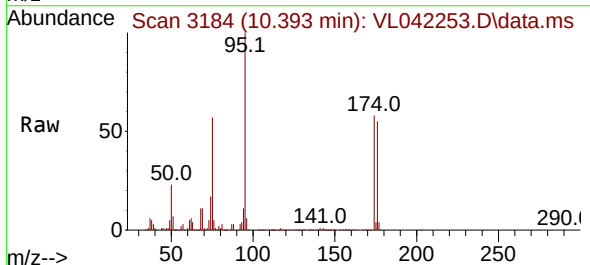
Manual Integrations
 APPROVED

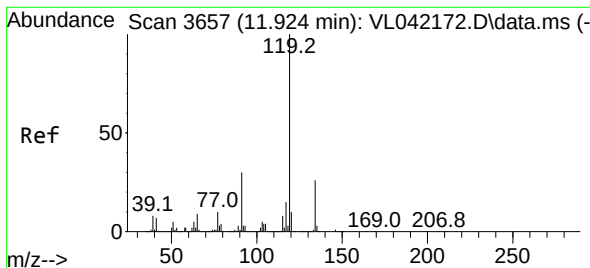
Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#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

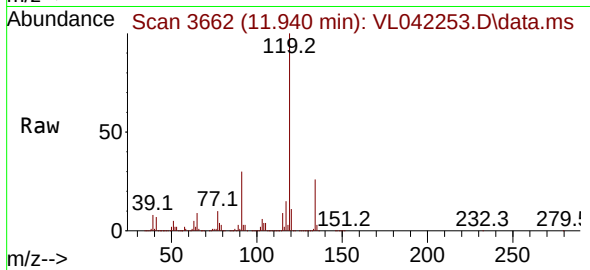
Tgt Ion: 95 Resp: 366722
 Ion Ratio Lower Upper
 95 100
 174 61.7 50.6 76.0
 175 4.5 3.8 5.6





#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

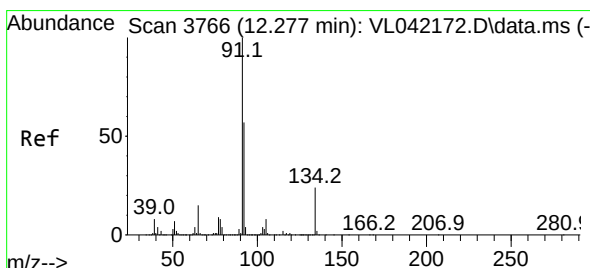
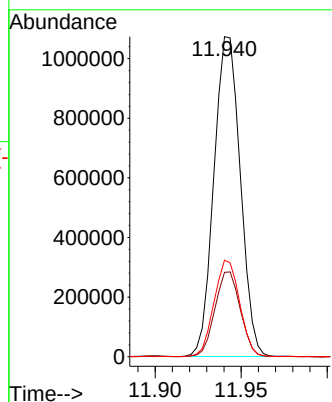
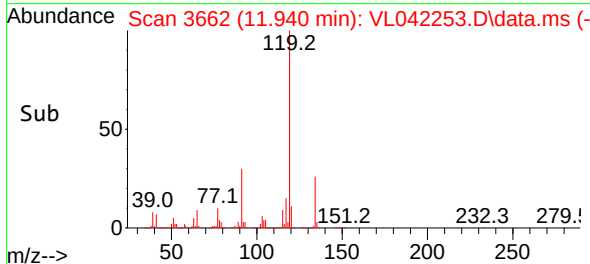
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



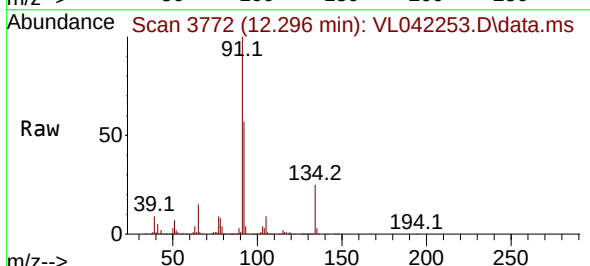
Tgt Ion: 119 Resp: 1144759
Ion Ratio Lower Upper
119 100
134 25.7 20.4 30.6
91 29.3 23.7 35.5

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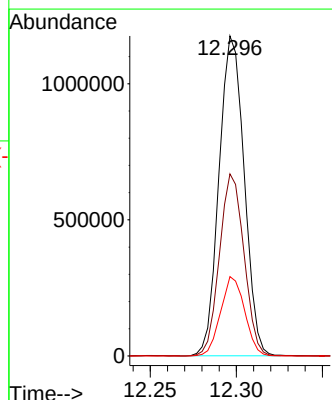
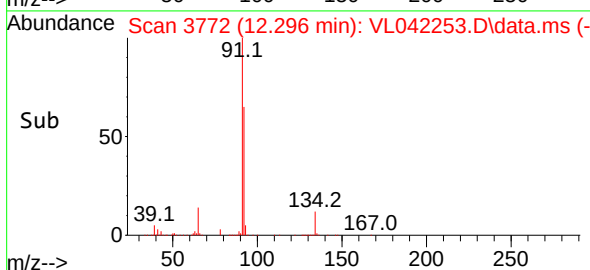
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

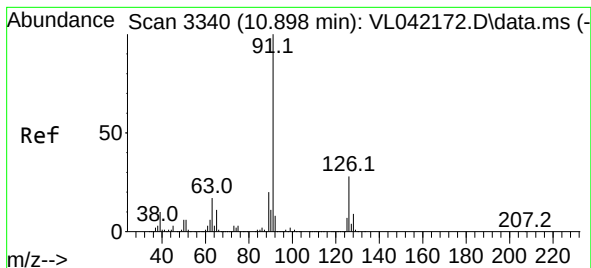


#70
n-Butylbenzene
Concen: 11.103 ppbv
RT: 12.296 min Scan# 3772
Delta R.T. 0.019 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39



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





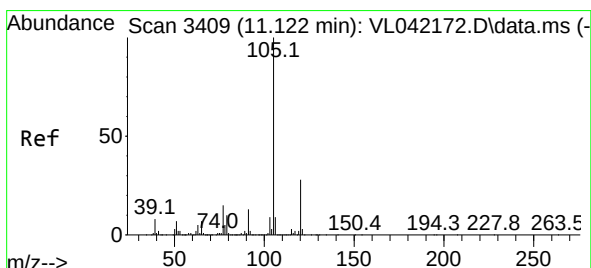
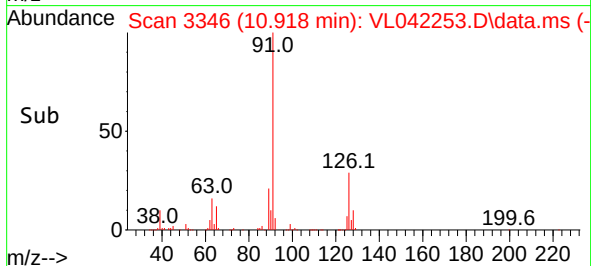
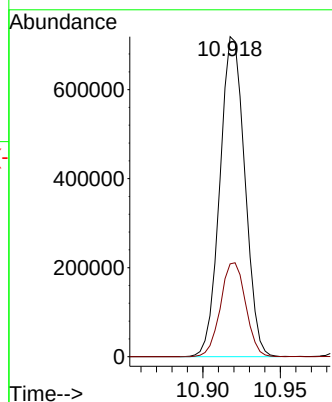
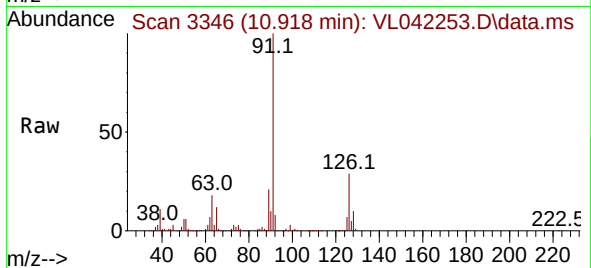
#71
2-Chlorotoluene
Concen: 10.935 ppbv
RT: 10.918 min Scan# 31
Delta R.T. 0.019 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 806572
Ion Ratio Lower Upper
91 100
126 29.6 11.6 46.4

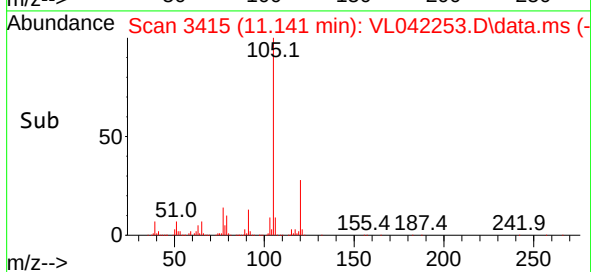
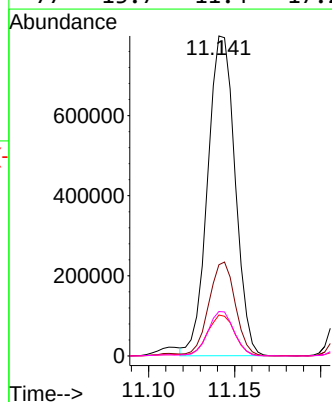
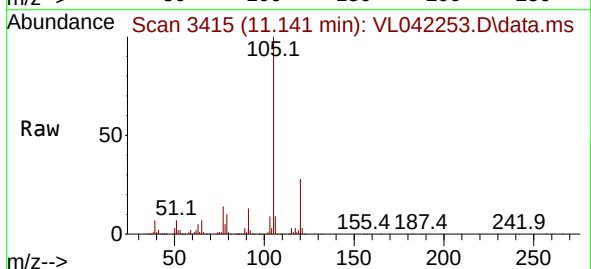
Manual Integrations
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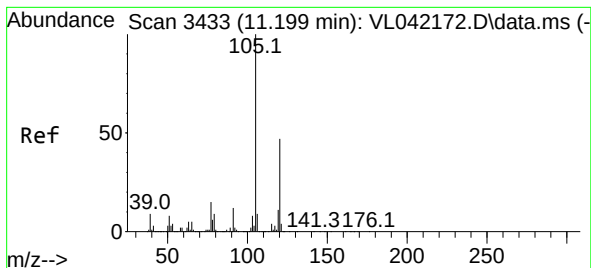
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#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

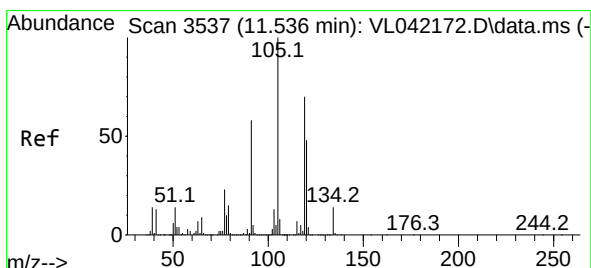
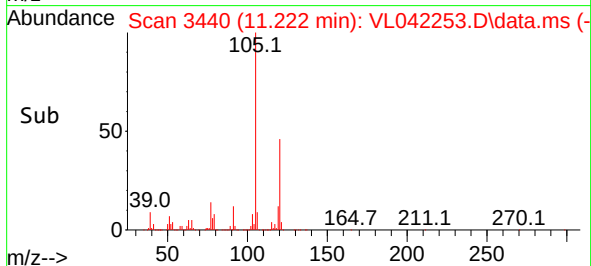
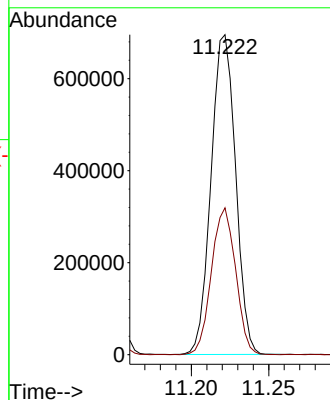
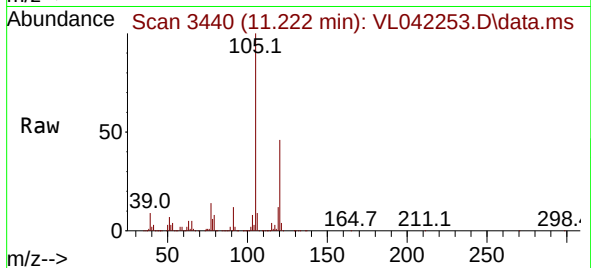
120 45.9 37.4 56.0

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

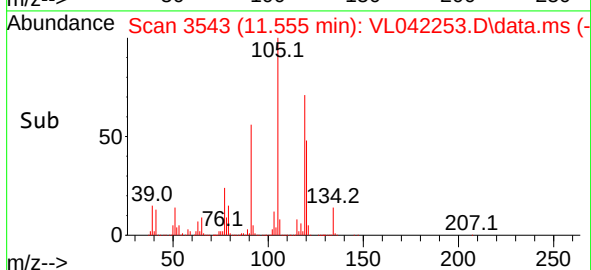
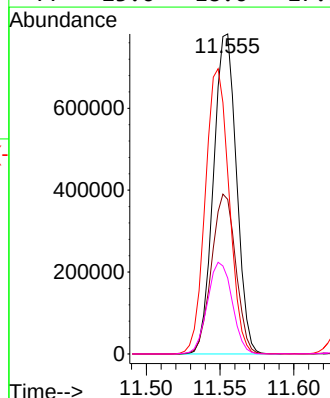
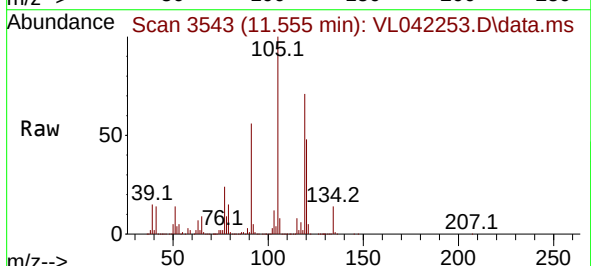
Ion Ratio Lower Upper

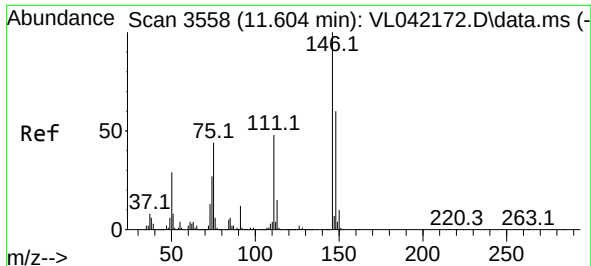
105 100

120 48.3 38.6 58.0

91 56.4 46.2 69.2

77 23.6 18.6 27.8





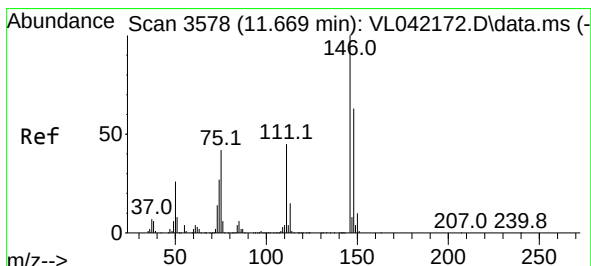
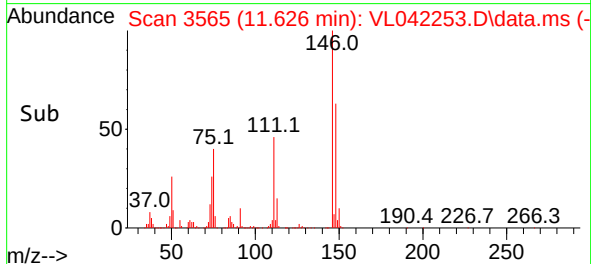
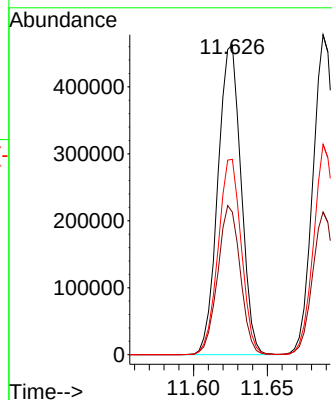
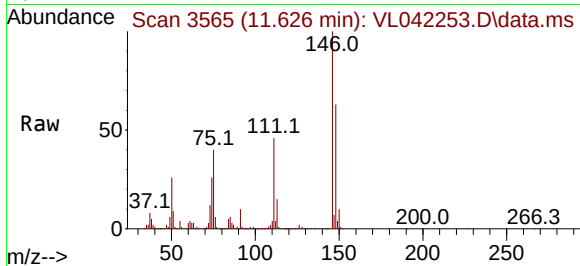
#75
1,3-Dichlorobenzene
Concen: 11.584 ppbv
RT: 11.626 min Scan# 3558
Delta R.T. 0.023 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

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

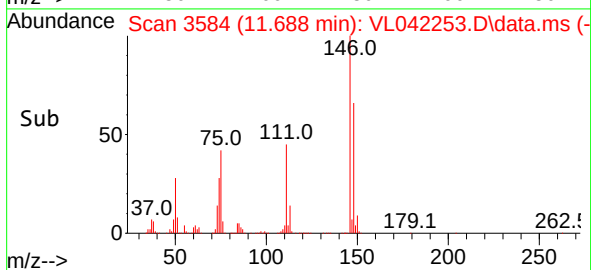
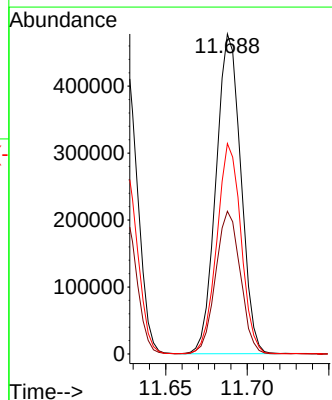
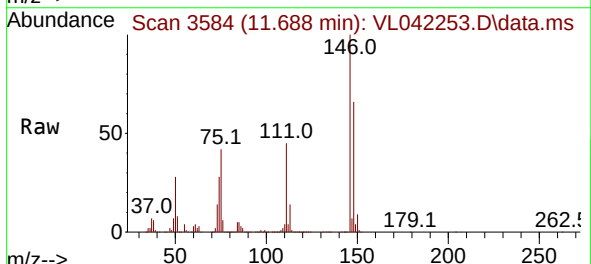
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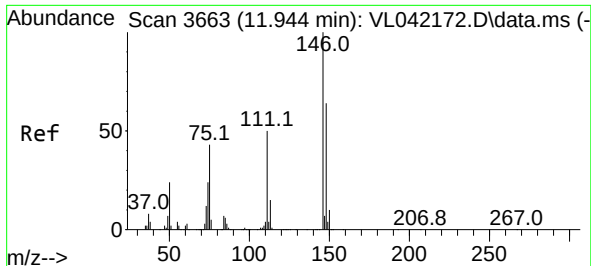
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#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

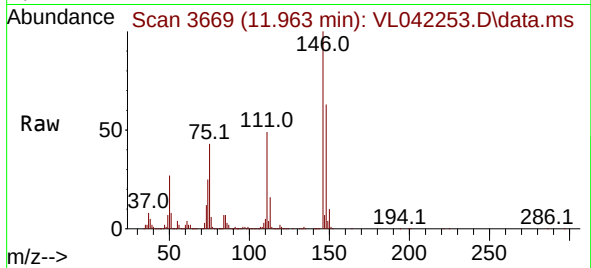
Tgt Ion:146 Resp: 505562
Ion Ratio Lower Upper
146 100
111 44.5 23.0 69.0
148 64.5 31.9 95.7





#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

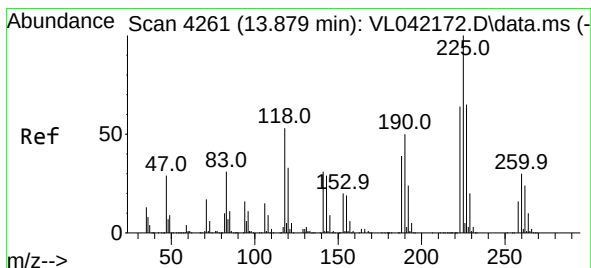
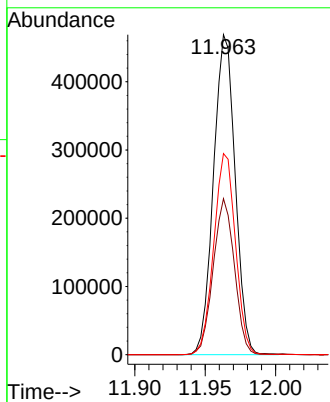
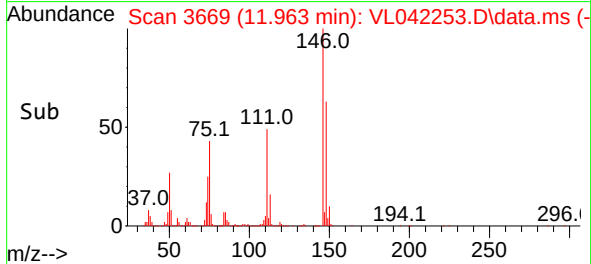
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



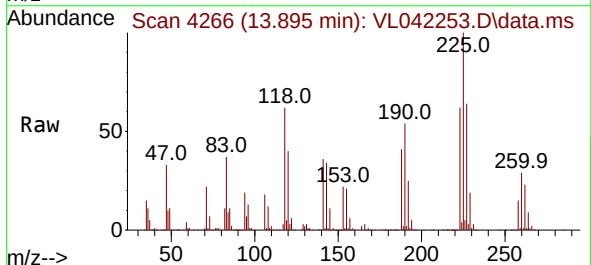
Tgt Ion:146 Resp: 503274
Ion Ratio Lower Upper
146 100
111 47.8 24.8 74.3
148 63.0 31.6 94.8

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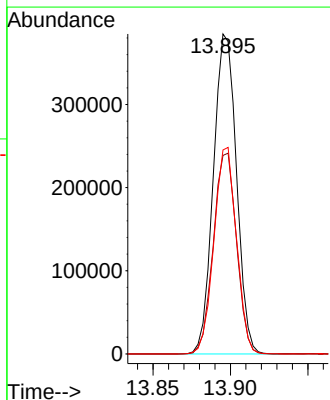
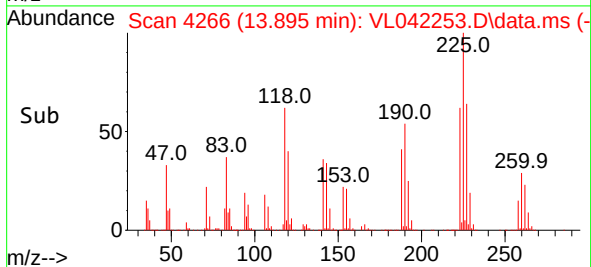
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

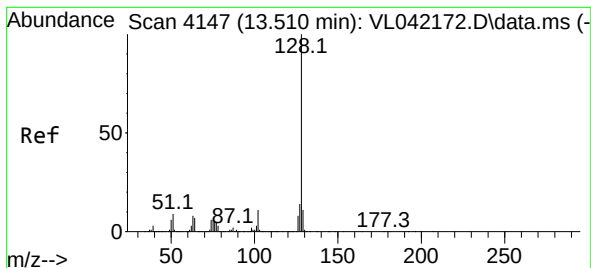


#78
Hexachloro-1,3-Butadiene
Concen: 9.223 ppbv
RT: 13.895 min Scan# 4266
Delta R.T. 0.016 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39



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 :

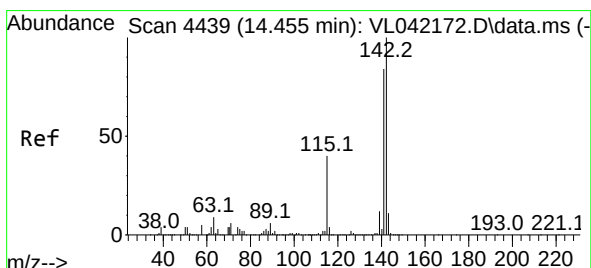
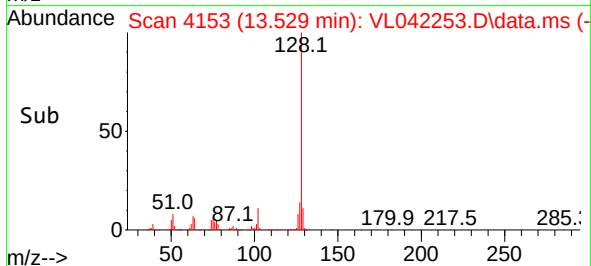
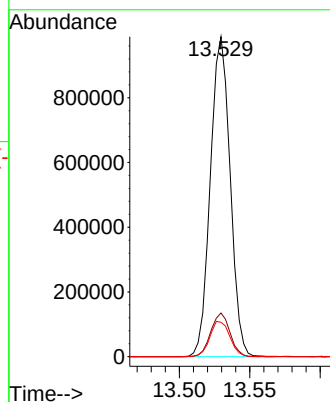
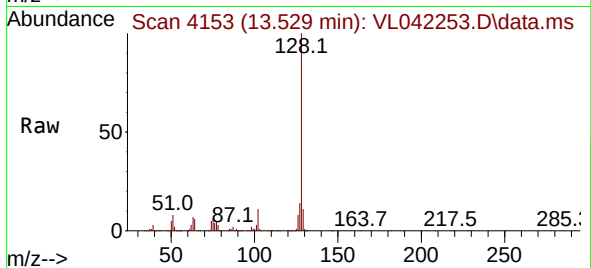
VSTDCCC010

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

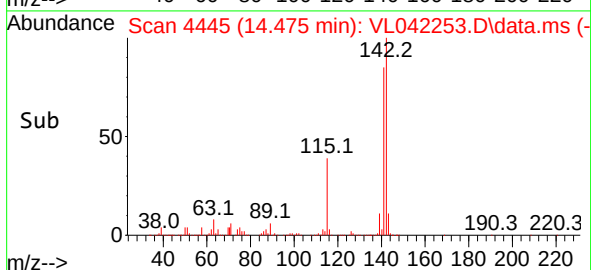
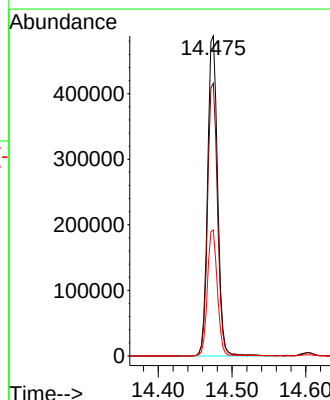
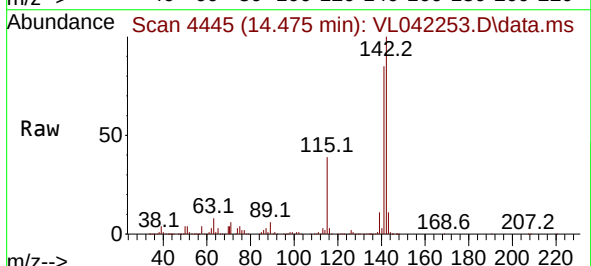
RT: 14.475 min Scan# 4445

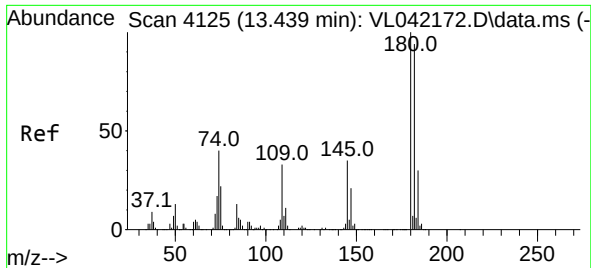
Delta R.T. 0.019 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

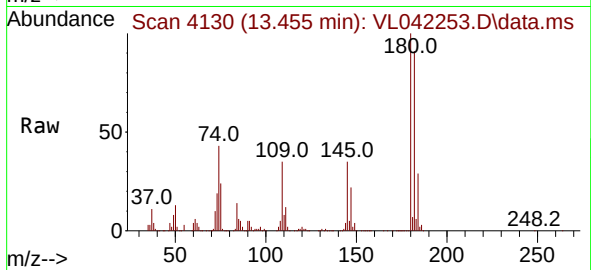
Tgt Ion:	142	Resp:	457943
Ion Ratio	Lower	Upper	
142	100		
141	85.5	66.3	99.5
115	39.3	31.6	47.4





#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

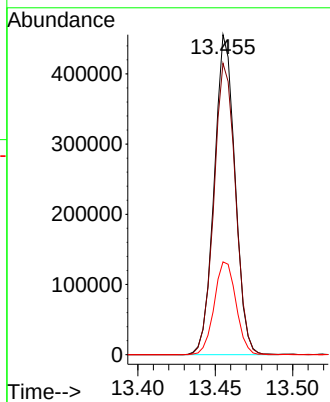
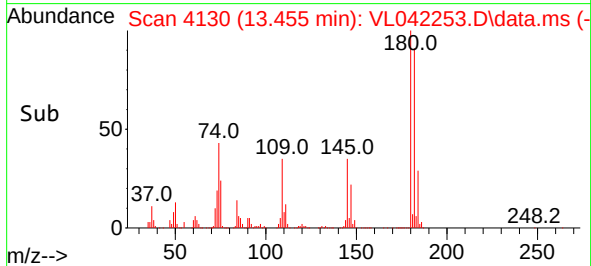
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



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



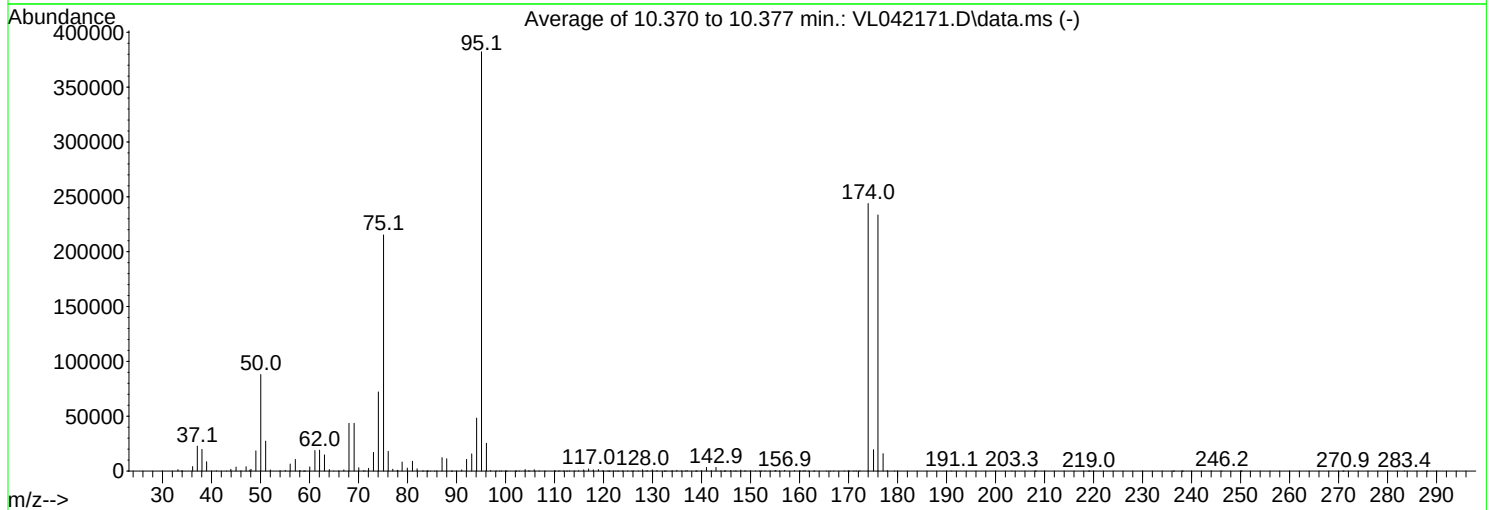
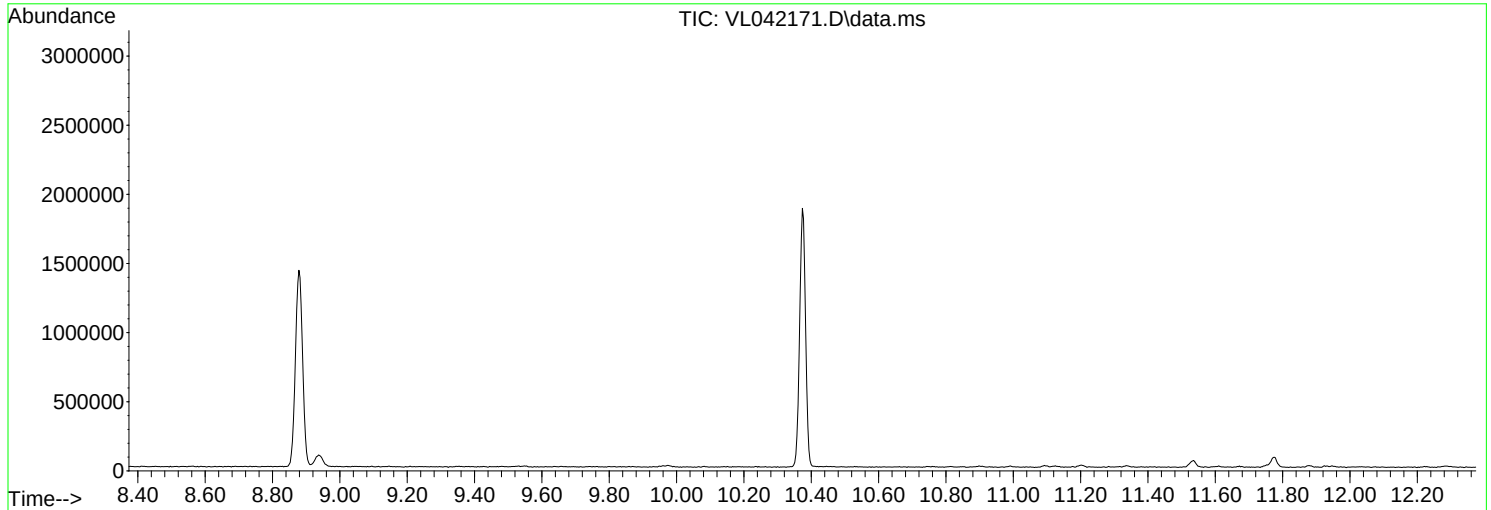
QC SAMPLE DATA

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

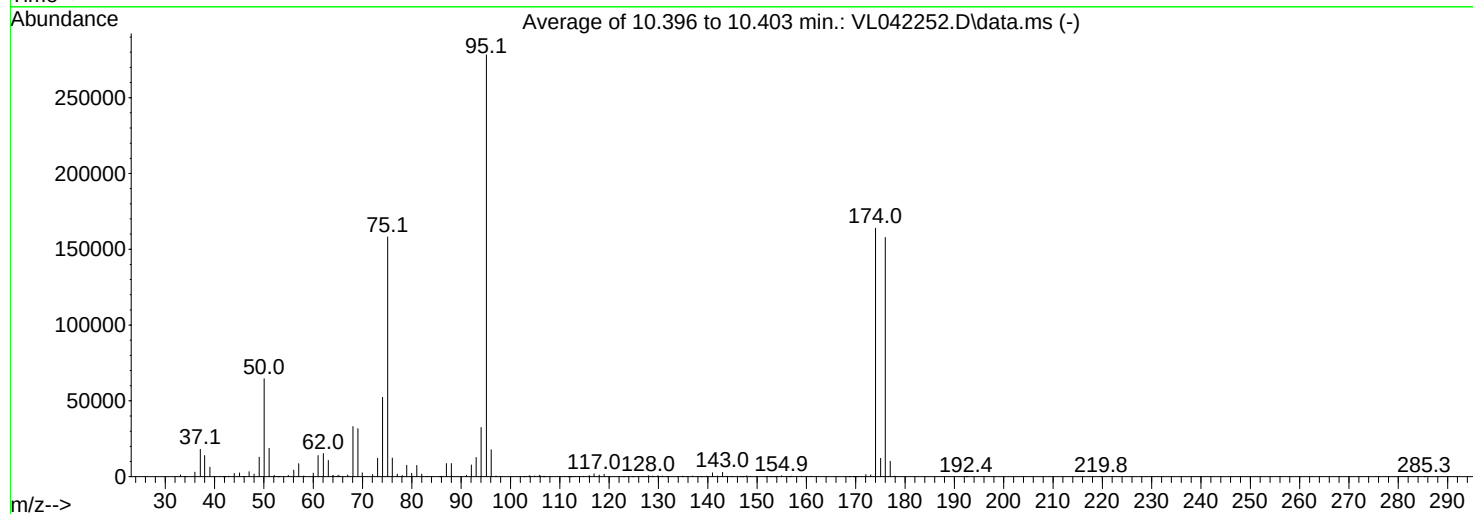
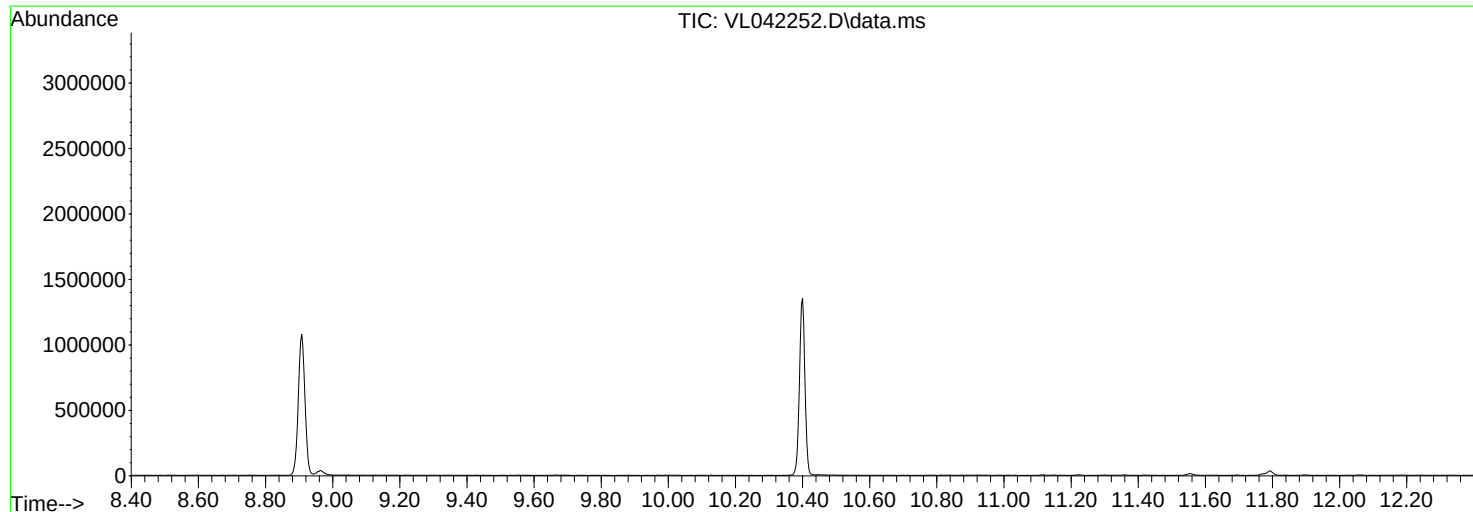
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.0	87995	PASS
75	95	30	66	56.3	215296	PASS
95	95	100	100	100.0	382268	PASS
96	95	5	9	6.6	25383	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	63.8	243904	PASS
175	174	4	9	8.0	19539	PASS
176	174	93	101	95.7	233493	PASS
177	176	5	9	6.8	15877	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\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:	VL0408ABL01	SDG No.:	Q1728
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.:	Q1728
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.:	Q1728
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%

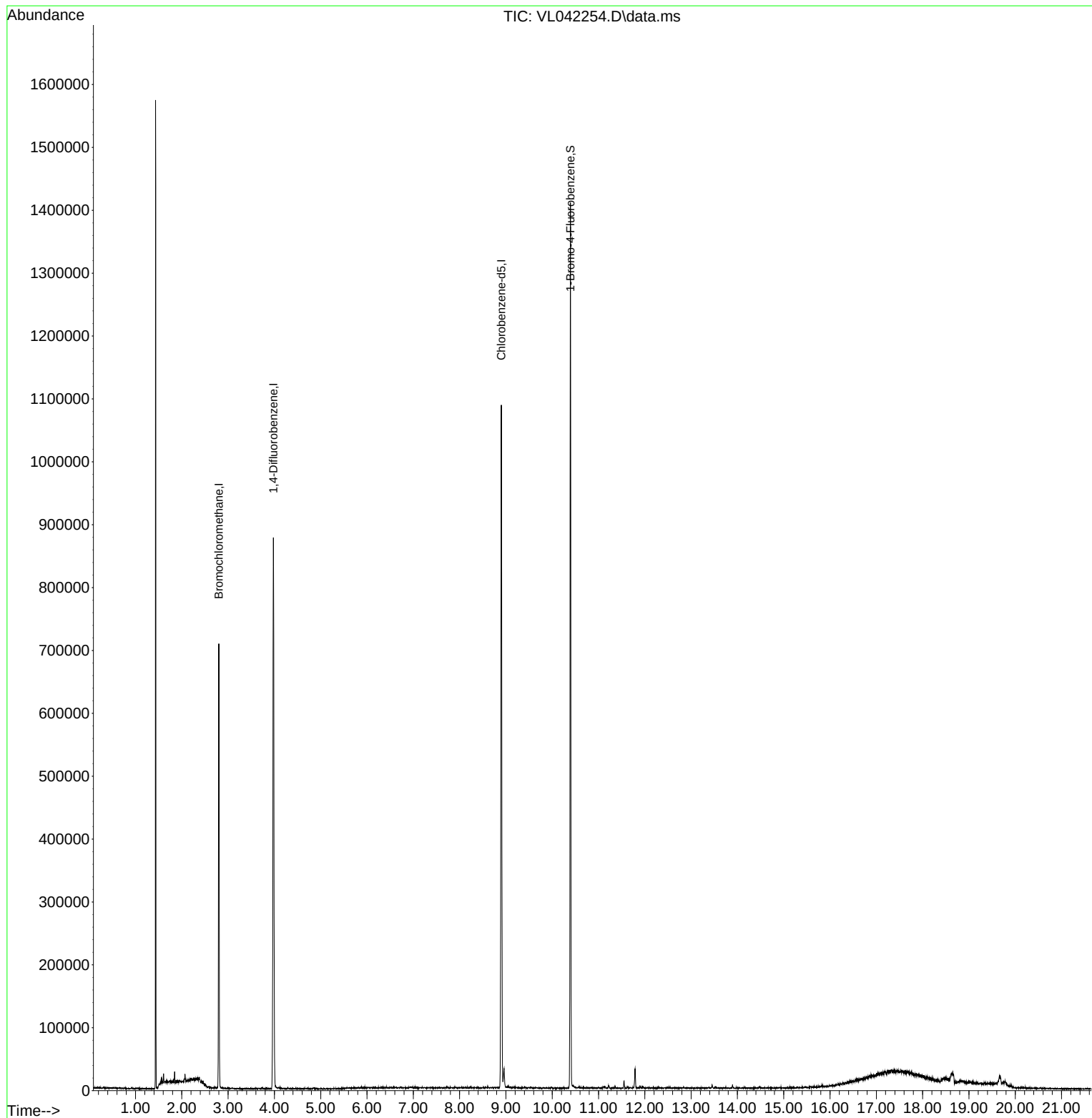
Target Compounds	Qvalue

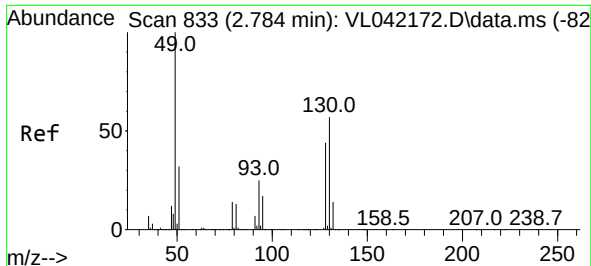
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

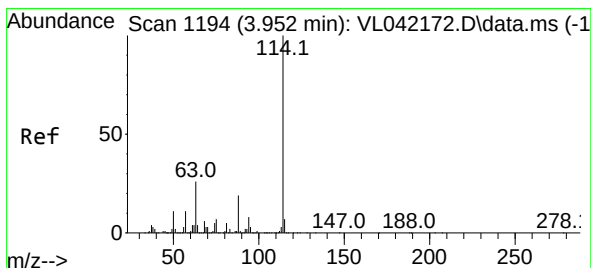
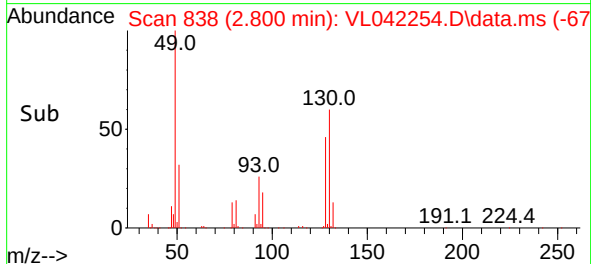
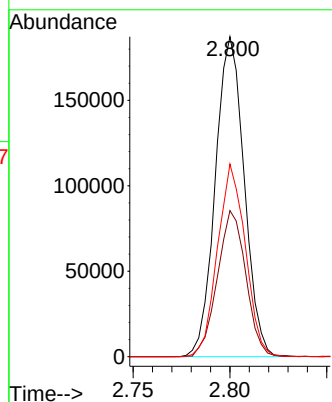
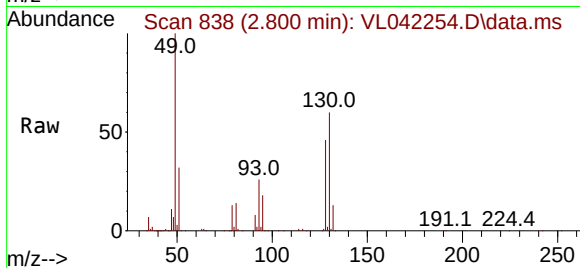




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042254.D
Acq: 08 Apr 2025 09:22

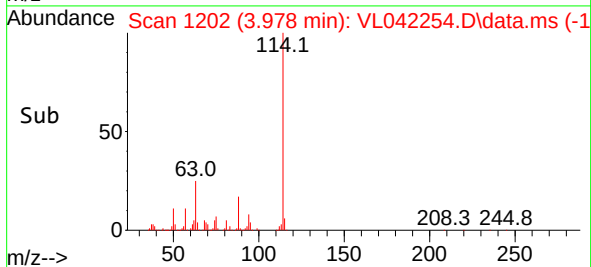
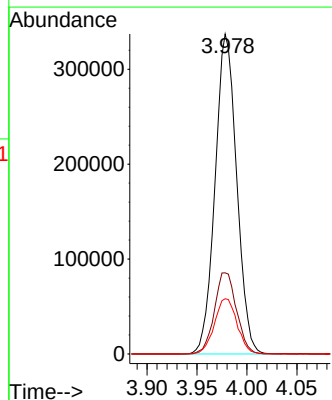
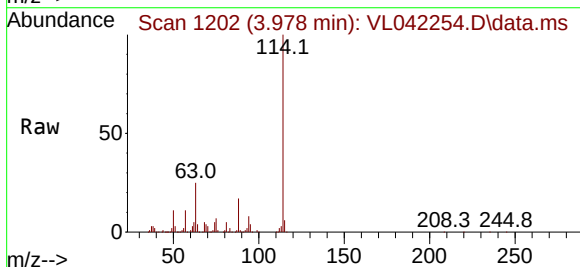
Instrument :
MSVOA_1
ClientSampleId :
VL0408ABL01

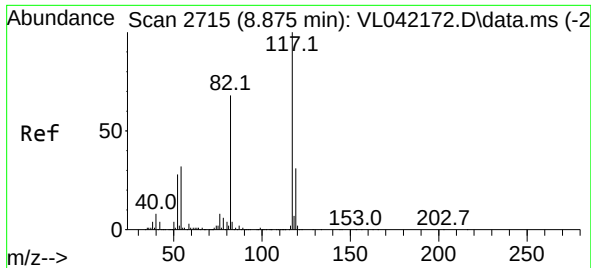
Tgt Ion: 49 Resp: 194254
Ion Ratio Lower Upper
49 100
128 45.0 22.9 68.5
130 58.0 28.8 86.4



#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

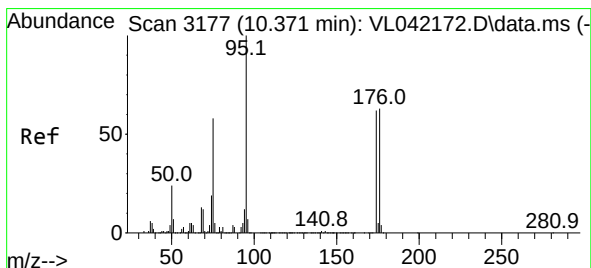
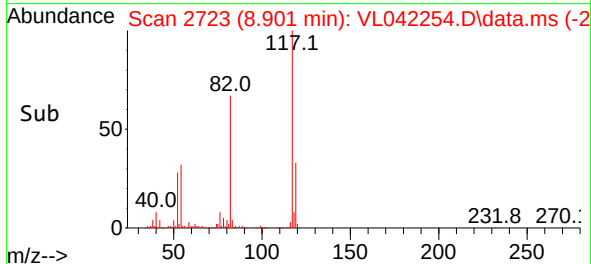
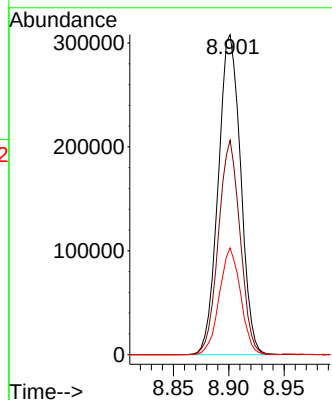
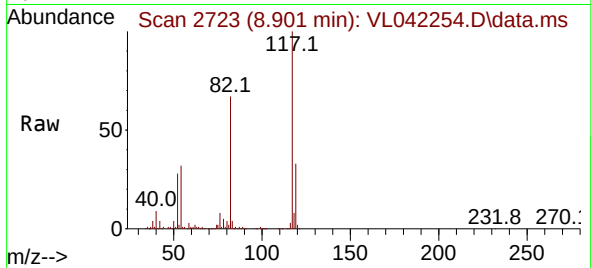




#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 8.901 min Scan# 21
 Delta R.T. 0.026 min
 Lab File: VL042254.D
 Acq: 08 Apr 2025 09:22

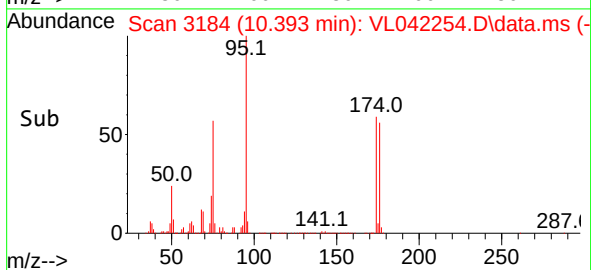
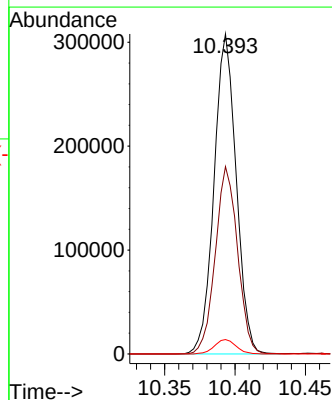
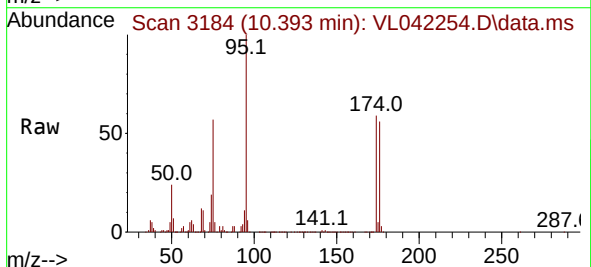
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0408ABL01

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%

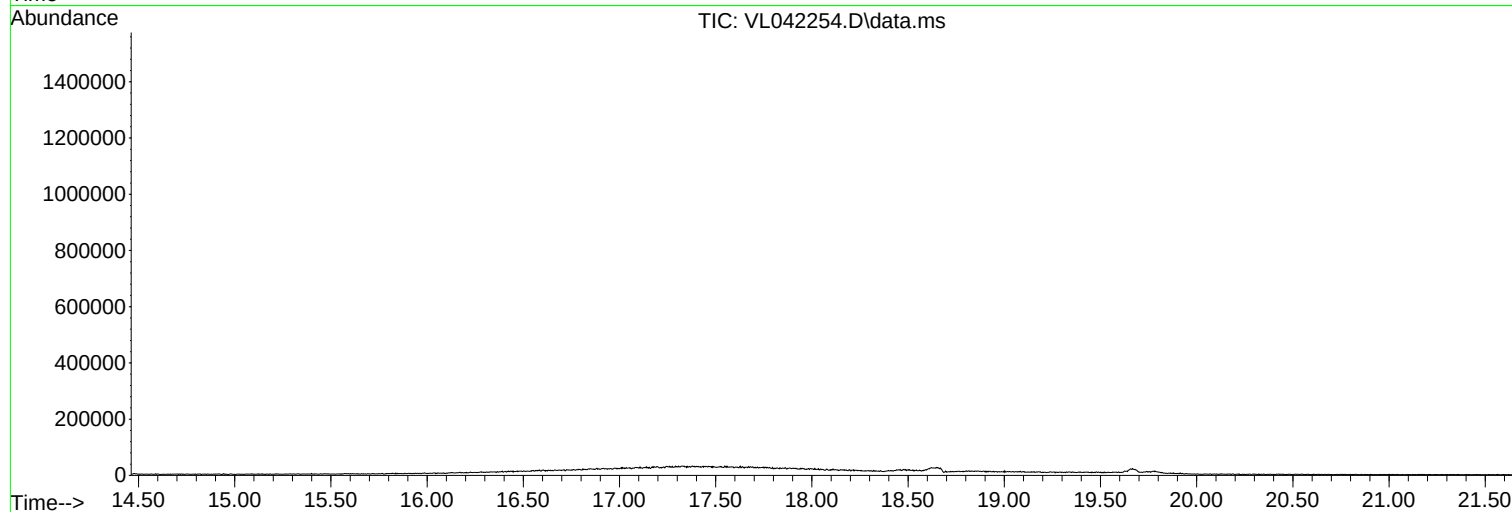
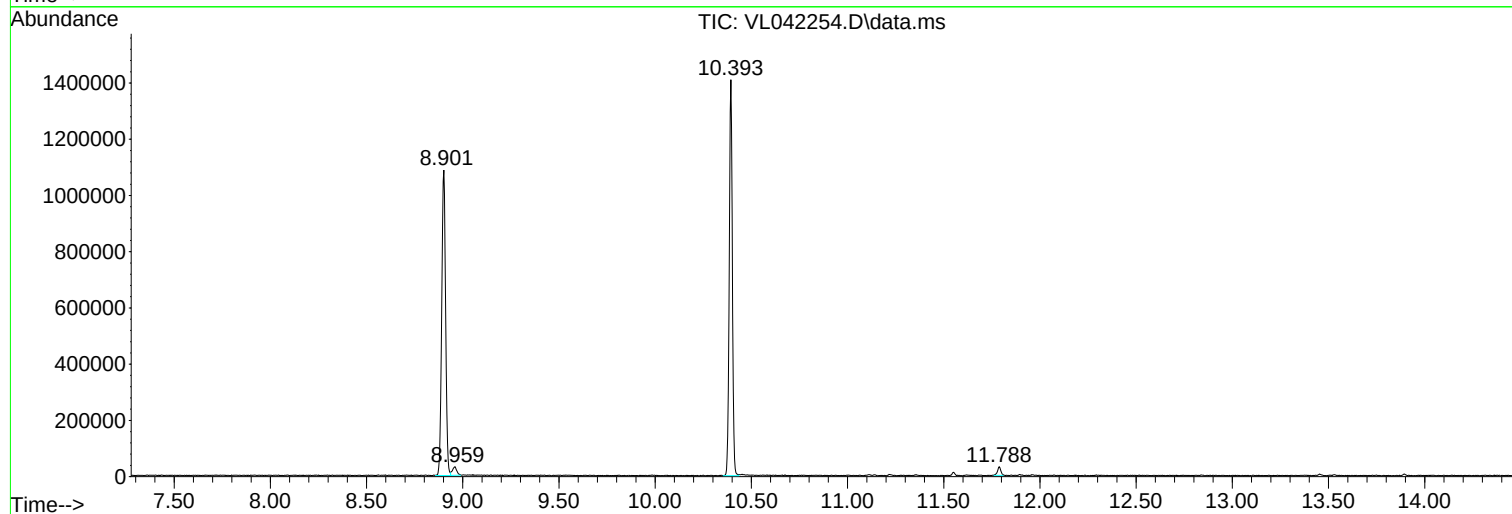
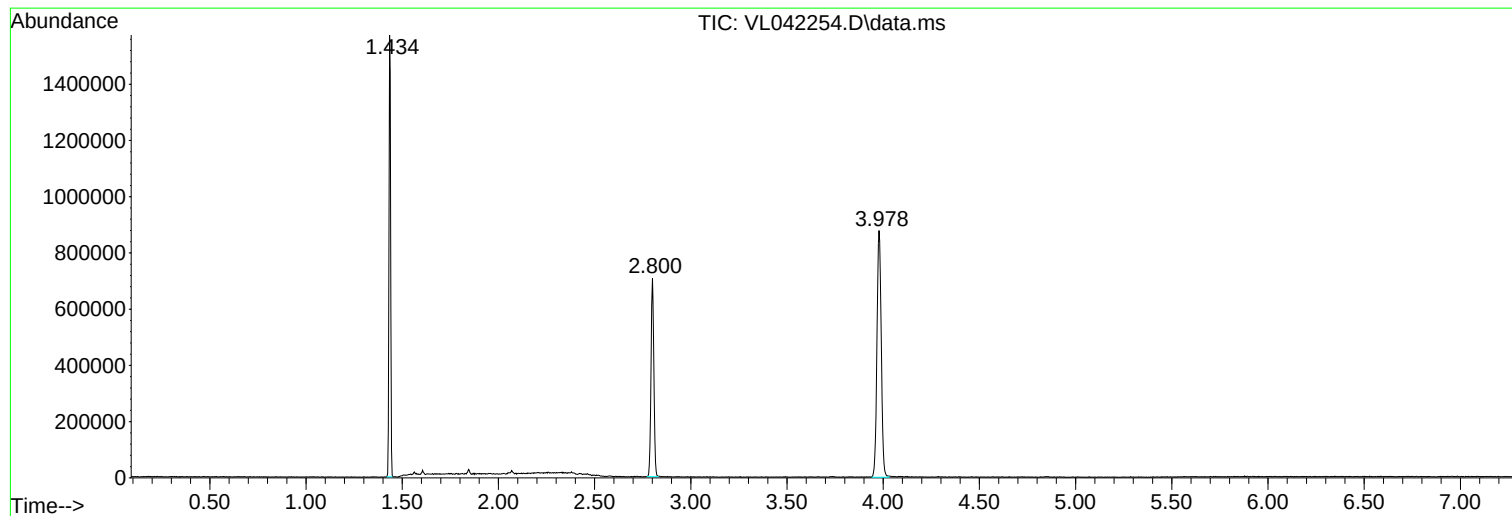
Sum of corrected areas: 6192018

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:	VL0408ABS01	SDG No.:	Q1728
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.:	Q1728
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.:	Q1728
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

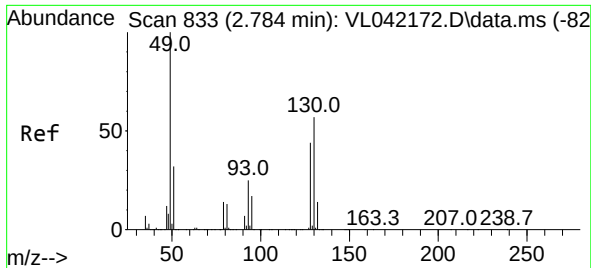
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2025

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

Response via : Initial Calibration

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



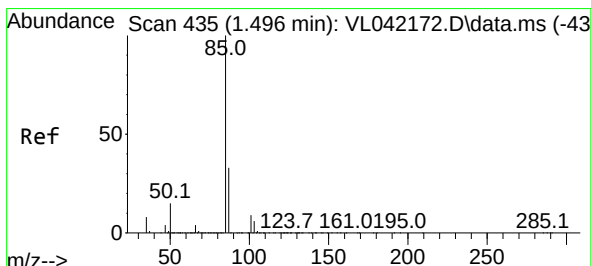
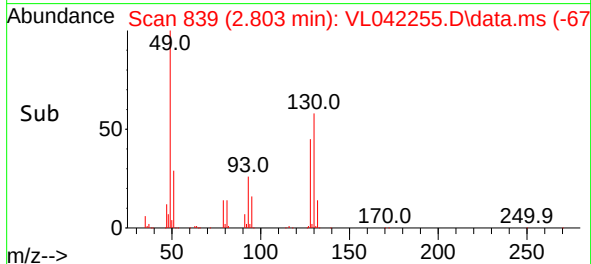
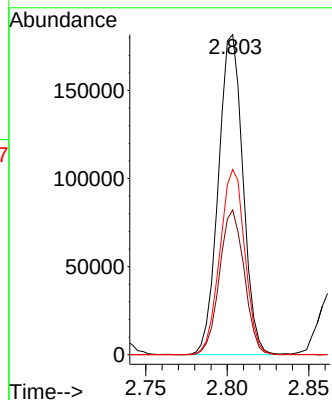
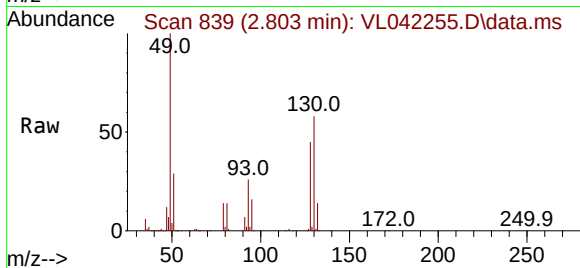
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

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

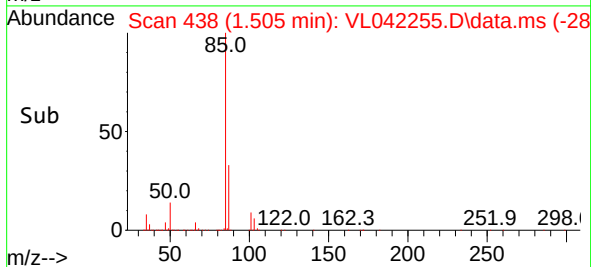
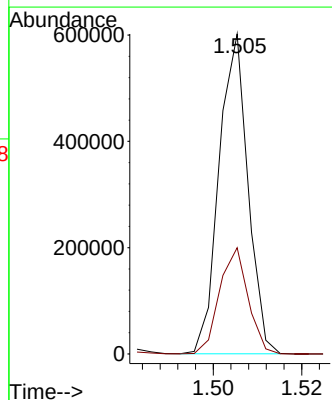
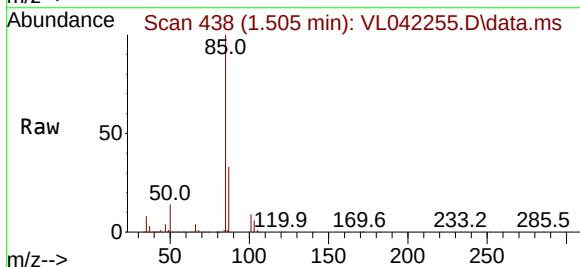
Manual Integrations
APPROVED

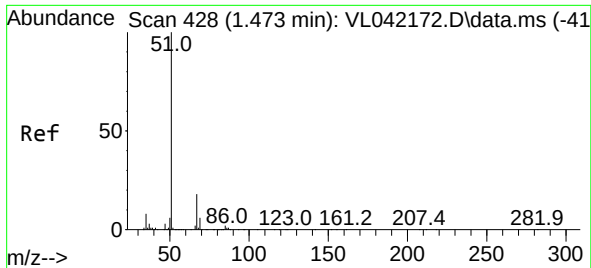
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#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

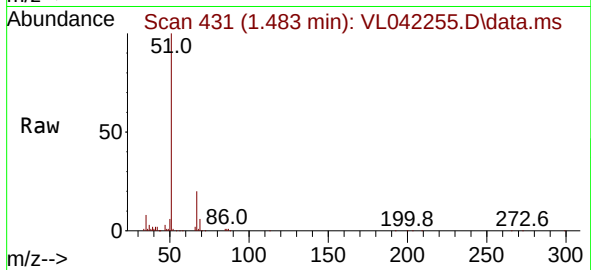
Tgt Ion: 85 Resp: 273062
Ion Ratio Lower Upper
85 100
87 33.2 26.1 39.1





#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

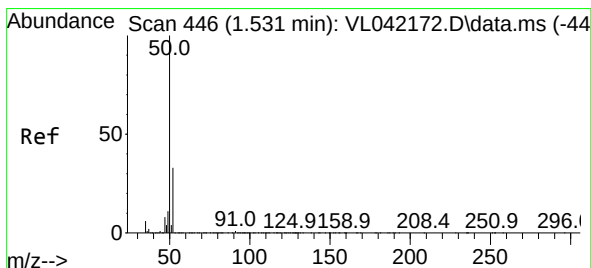
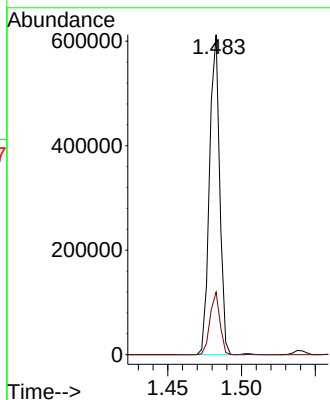
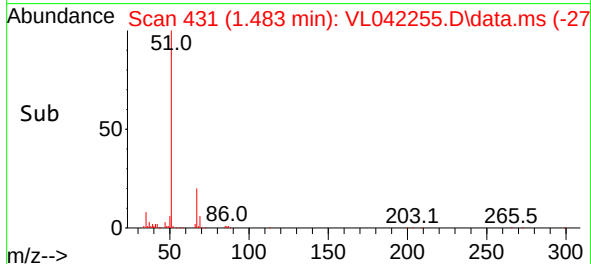
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01



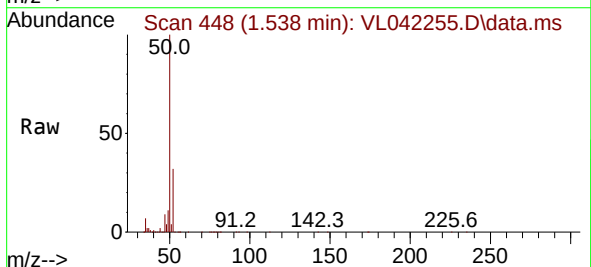
Tgt Ion: 51 Resp: 292844
Ion Ratio Lower Upper
51 100
67 19.0 15.0 22.6

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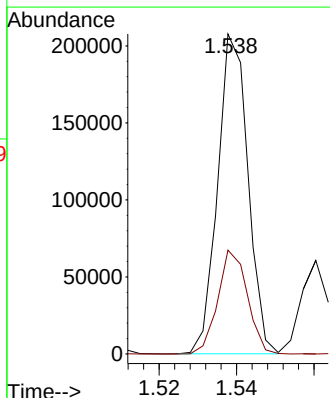
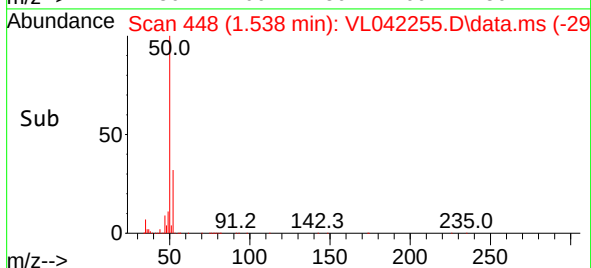
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

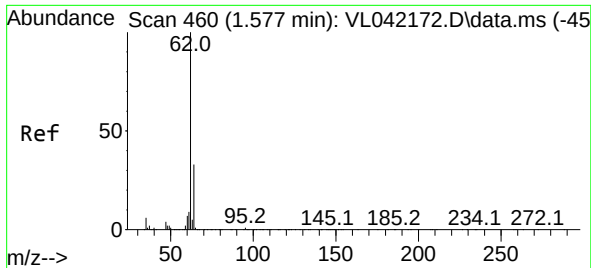


#4
Chloromethane
Concen: 9.805 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05



Tgt Ion: 50 Resp: 112659
Ion Ratio Lower Upper
50 100
52 32.5 26.1 39.1





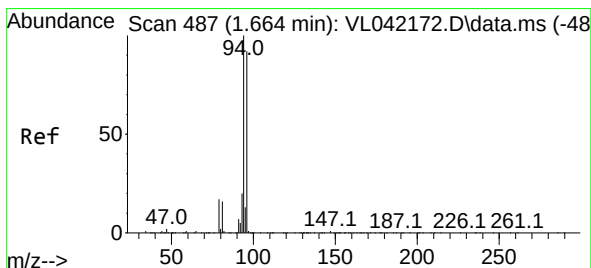
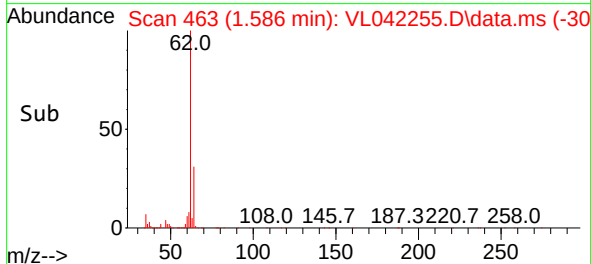
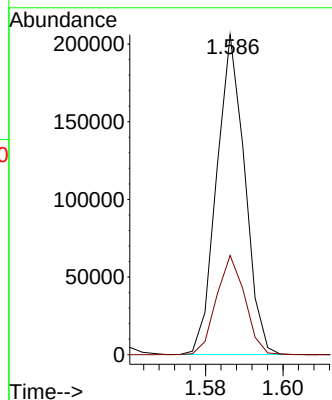
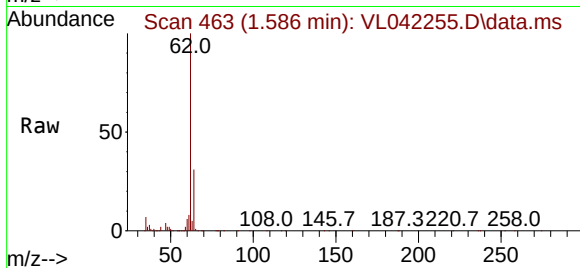
#5
 Vinyl Chloride
 Concen: 8.530 ppbv
 RT: 1.586 min Scan# 40
 Delta R.T. 0.010 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0408ABS01

Tgt Ion: 62 Resp: 10386
 Ion Ratio Lower Upper
 62 100
 64 30.9 26.6 40.0

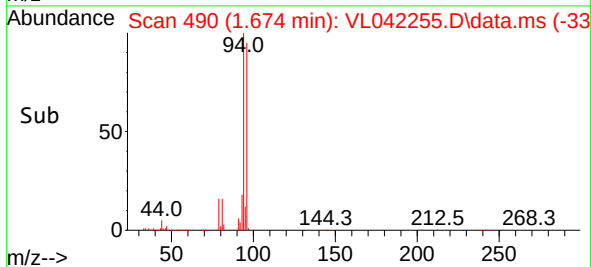
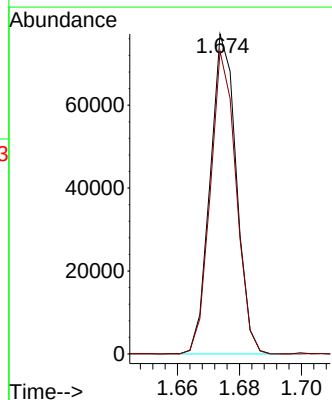
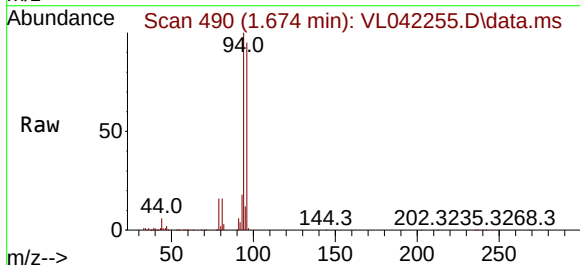
Manual Integrations
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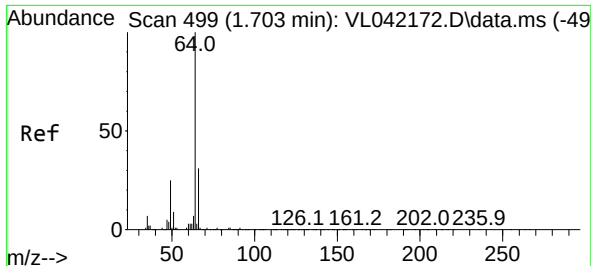
Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#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





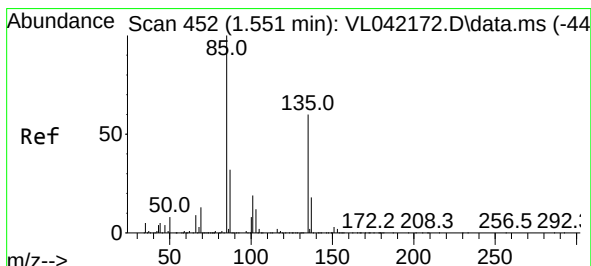
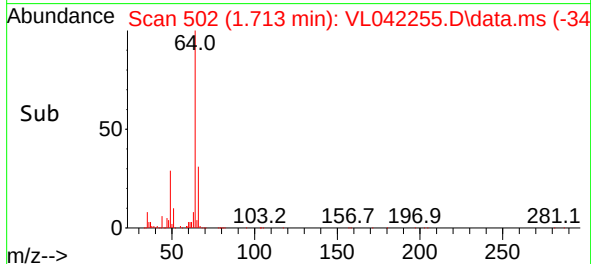
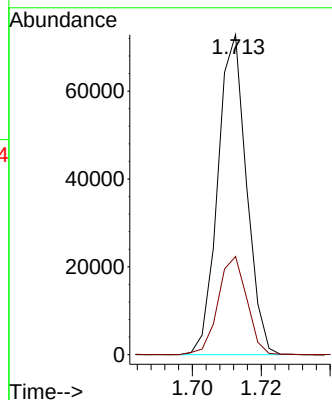
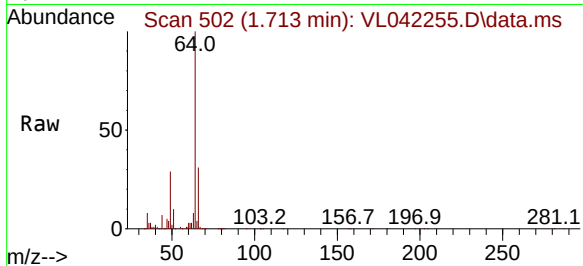
#7
Chloroethane
Concen: 9.161 ppbv
RT: 1.713 min Scan# 50
Delta R.T. 0.010 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01

Tgt Ion: 64 Resp: 4225
Ion Ratio Lower Upper
64 100
66 30.7 25.2 37.8

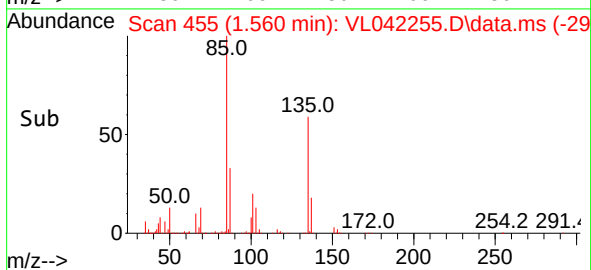
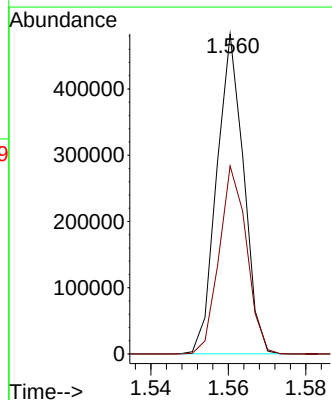
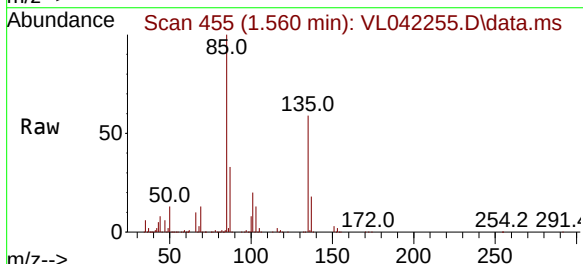
Manual Integrations
APPROVED

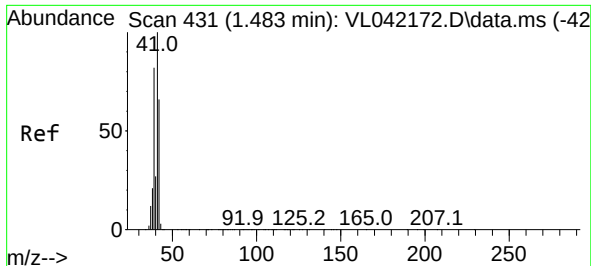
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#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

Instrument :

MSVOA_L

ClientSampleId :

VL0408ABS01

Tgt Ion: 41 Resp: 111408

Ion Ratio Lower Upper

41 100

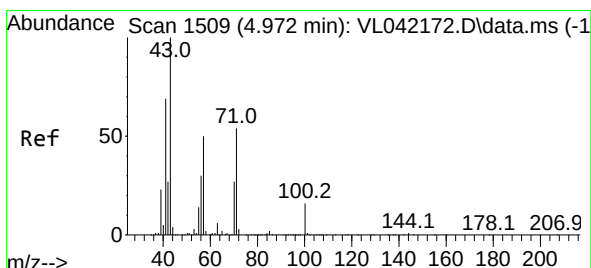
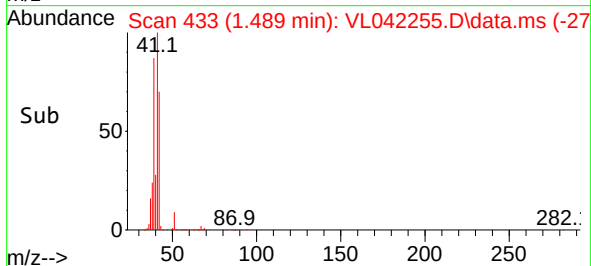
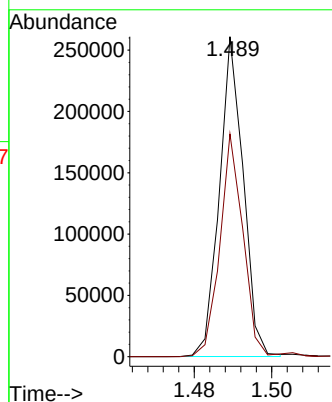
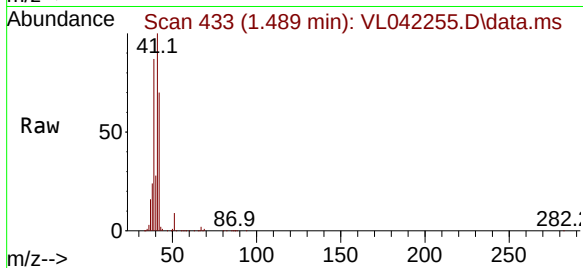
42 68.7 55.4 83.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2025

Supervised By :Mahesh Dadoda 04/09/2025



#10

Heptane

Concen: 9.511 ppbv

RT: 5.011 min Scan# 1521

Delta R.T. 0.039 min

Lab File: VL042255.D

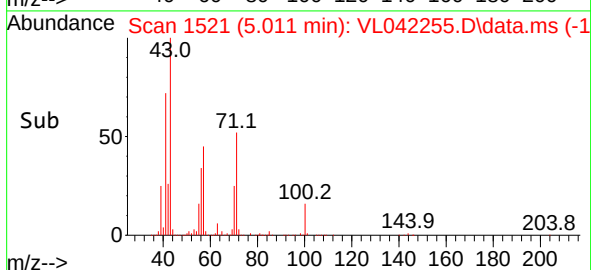
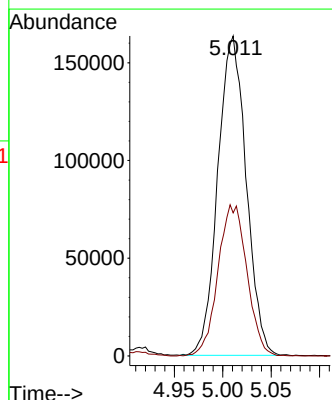
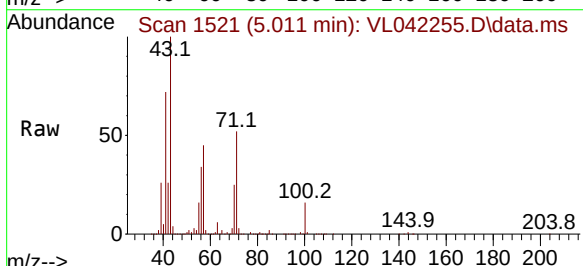
Acq: 08 Apr 2025 10:05

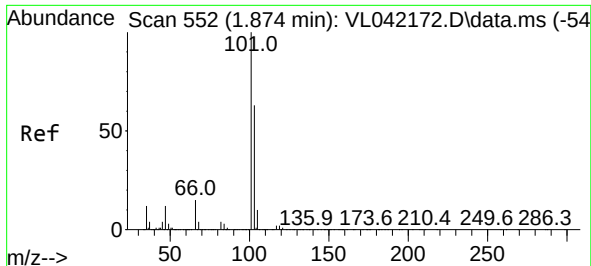
Tgt Ion: 43 Resp: 333061

Ion Ratio Lower Upper

43 100

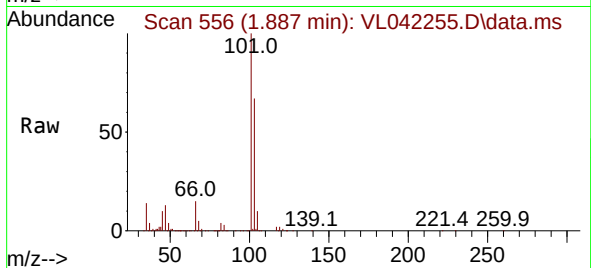
57 48.5 39.4 59.2





#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

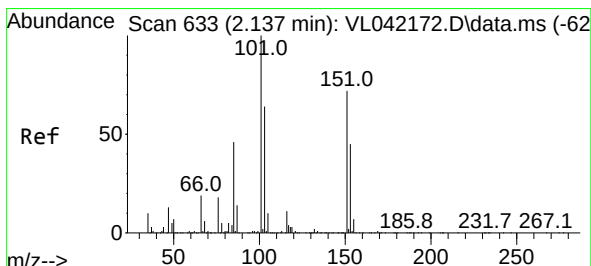
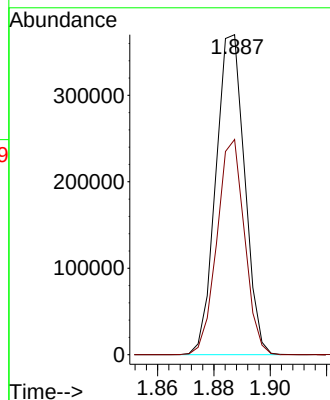
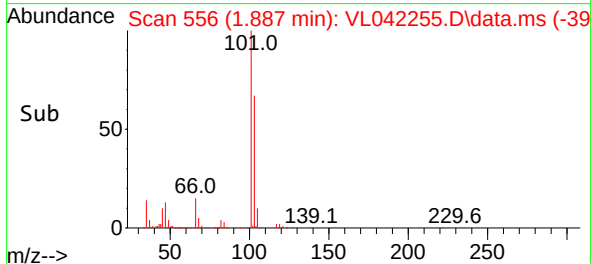
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01



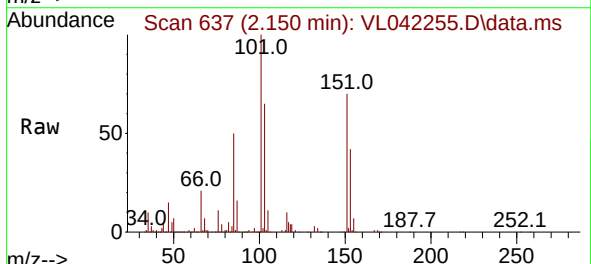
Tgt Ion:101 Resp: 263188
Ion Ratio Lower Upper
101 100
103 67.2 50.2 75.2

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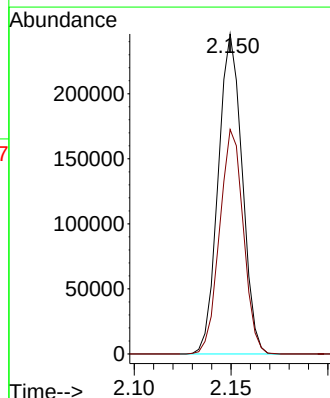
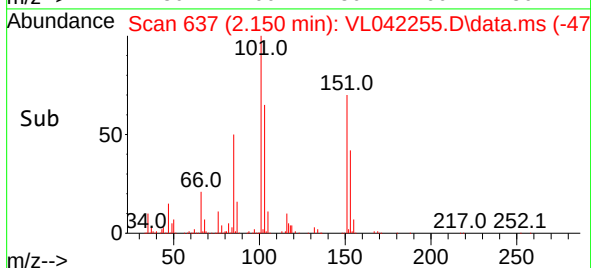
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

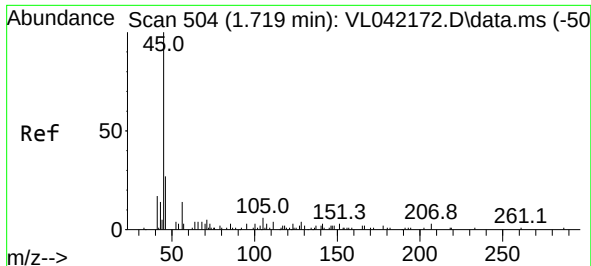


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.407 ppbv
RT: 2.150 min Scan# 637
Delta R.T. 0.013 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05



Tgt Ion:101 Resp: 211536
Ion Ratio Lower Upper
101 100
151 69.6 57.1 85.7





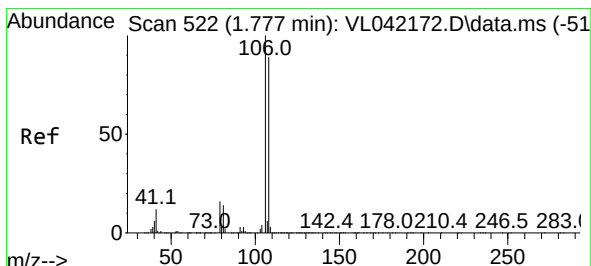
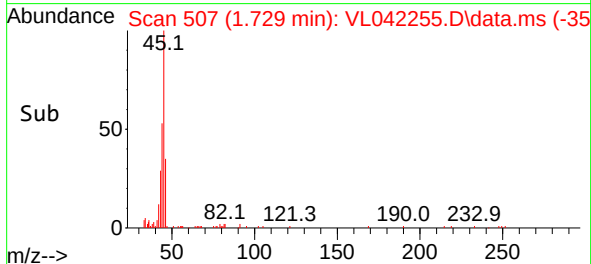
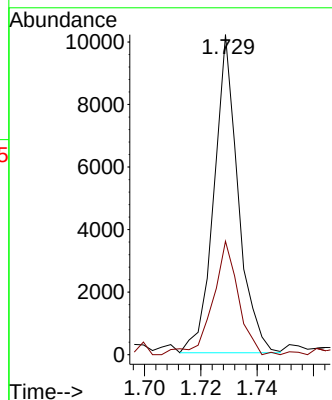
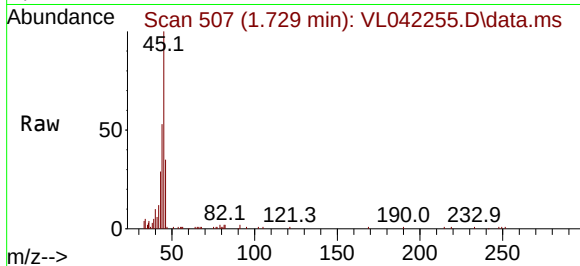
#13
Ethanol
Concen: 4.874 ppbv
RT: 1.729 min Scan# 504
Delta R.T. 0.010 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01

Tgt Ion: 45 Resp: 6060
Ion Ratio Lower Upper
45 100
46 38.1 20.2 80.8

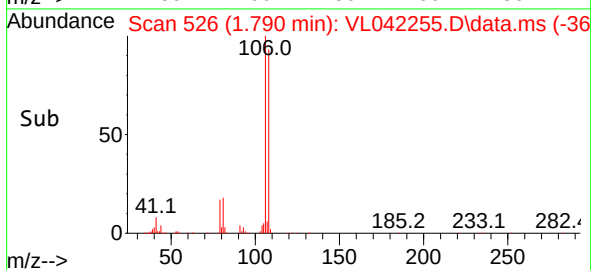
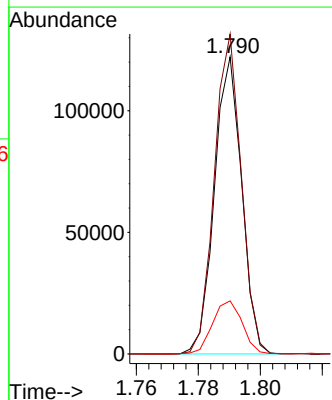
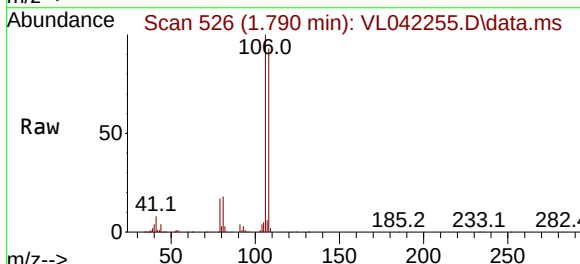
Manual Integrations
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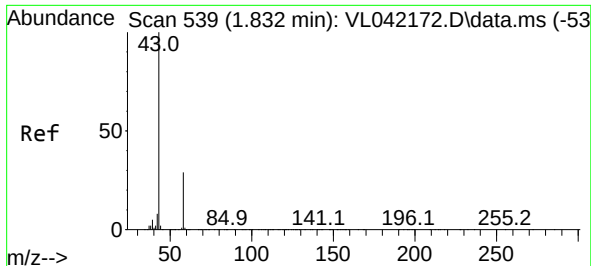
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#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

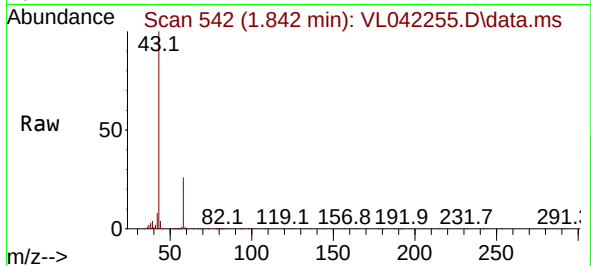
Tgt Ion:108 Resp: 74695
Ion Ratio Lower Upper
108 100
106 106.1 86.8 130.2
79 19.5 15.0 22.6





#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

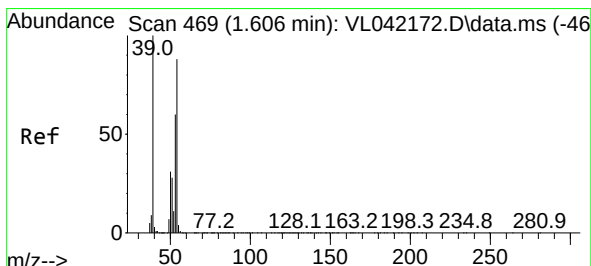
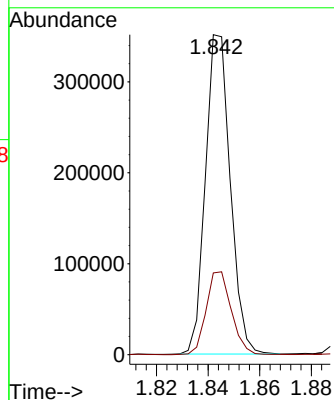
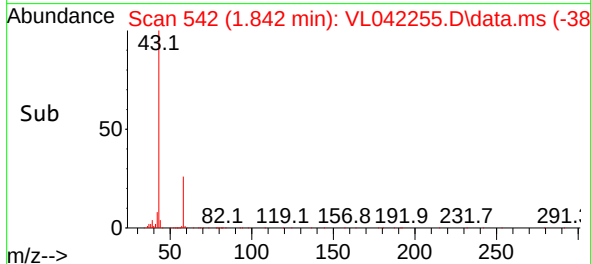
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01



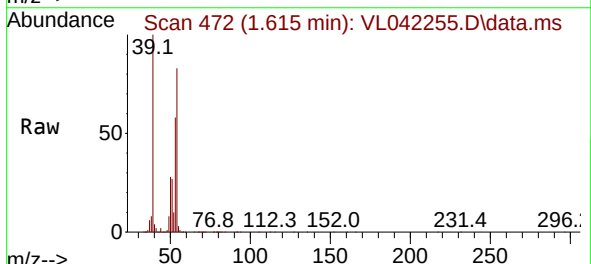
Tgt Ion: 43 Resp: 235954
Ion Ratio Lower Upper
43 100
58 26.4 23.2 34.8

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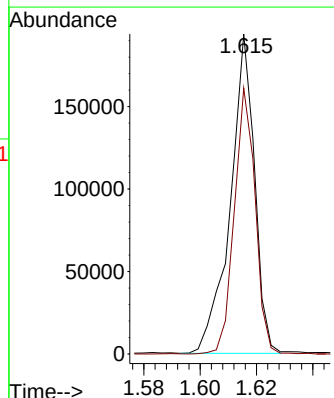
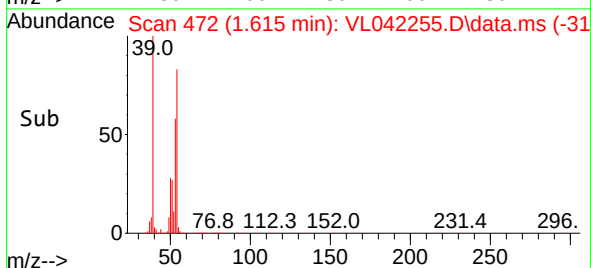
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

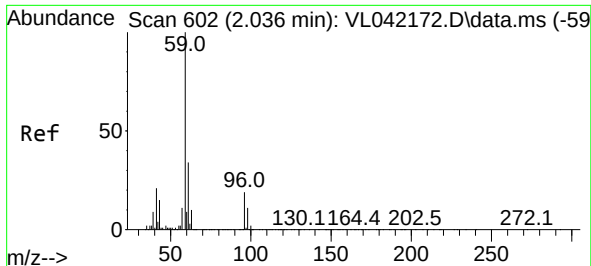


#16
1,3-Butadiene
Concen: 8.904 ppbv
RT: 1.615 min Scan# 472
Delta R.T. 0.010 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05



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# 602

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

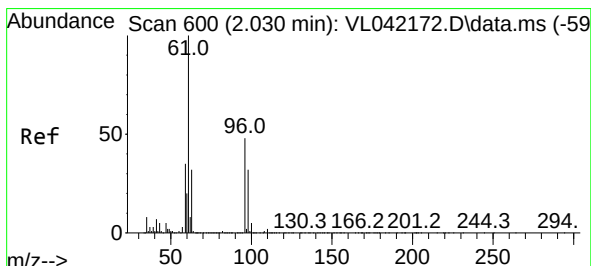
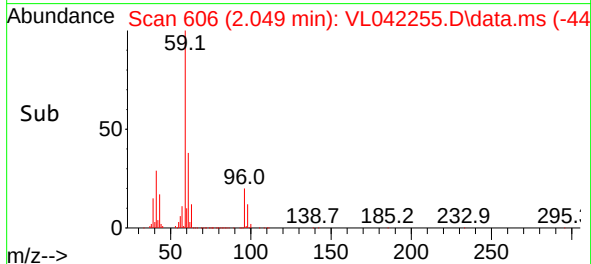
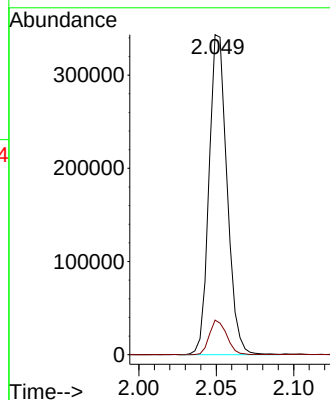
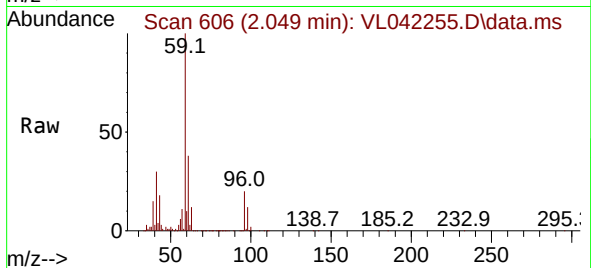
57 10.3 8.9 13.3

Manual Integrations

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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

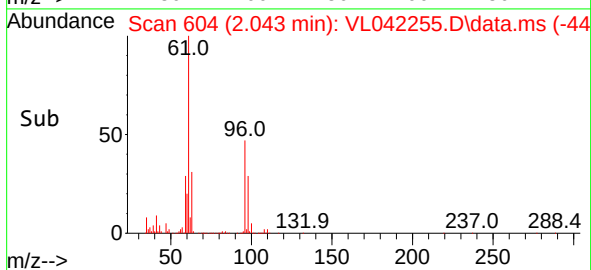
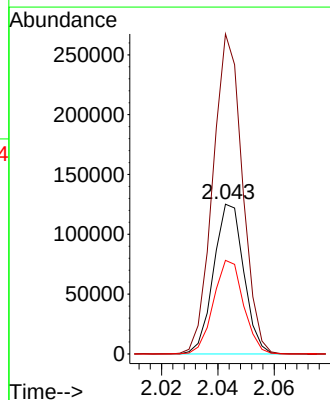
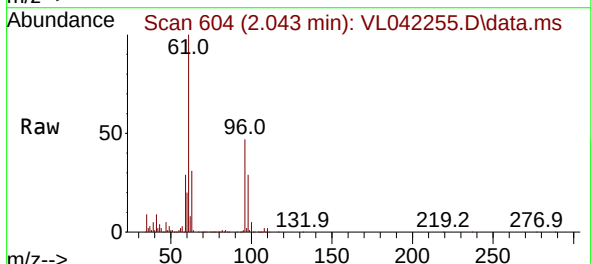
Tgt Ion: 96 Resp: 93164

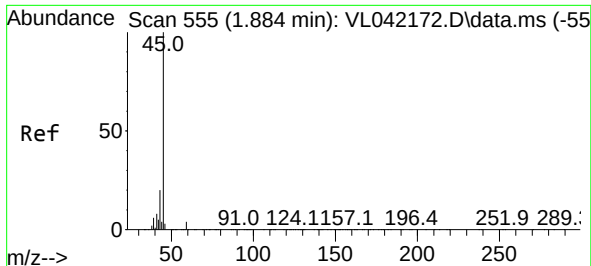
Ion Ratio Lower Upper

96 100

61 213.3 167.6 251.4

98 62.4 53.5 80.3





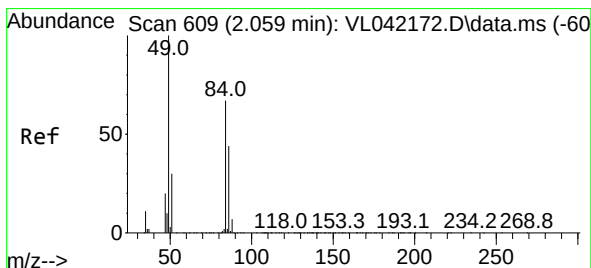
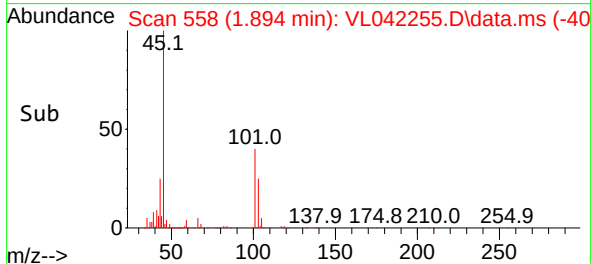
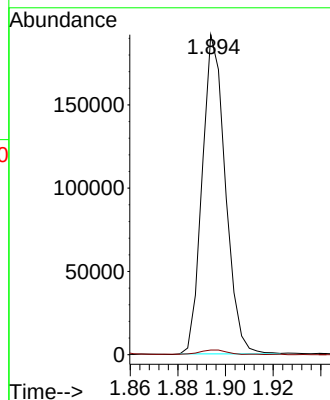
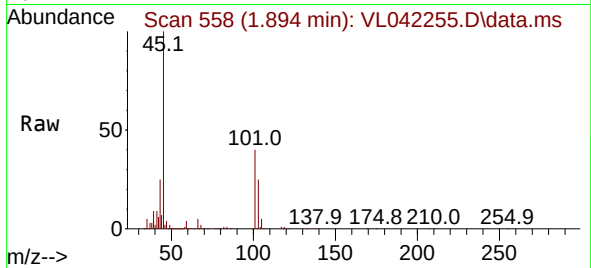
#19
Isopropyl Alcohol
Concen: 8.613 ppbv
RT: 1.894 min Scan# 510
Delta R.T. 0.010 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01

Tgt Ion: 45 Resp: 129418
Ion Ratio Lower Upper
45 100
58 2.1 36.9 55.3

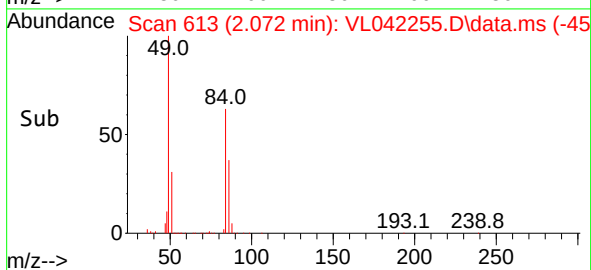
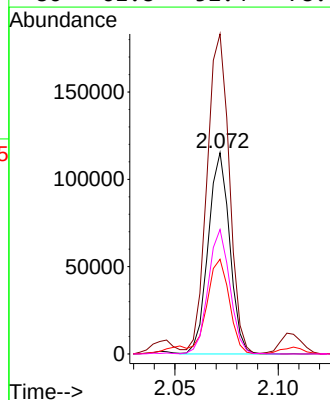
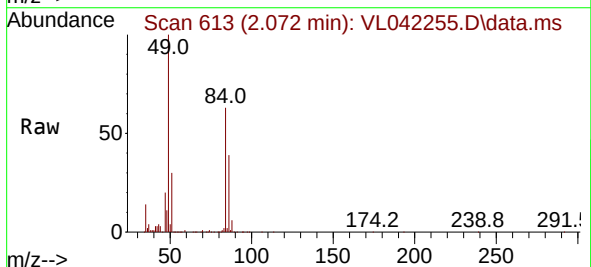
Manual Integrations
APPROVED

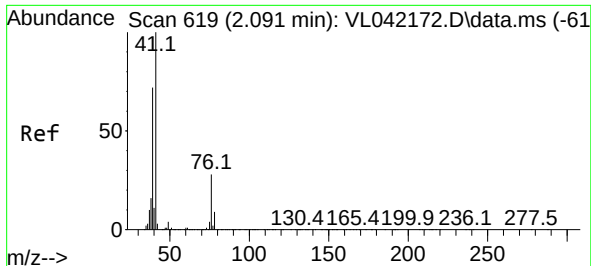
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#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 :

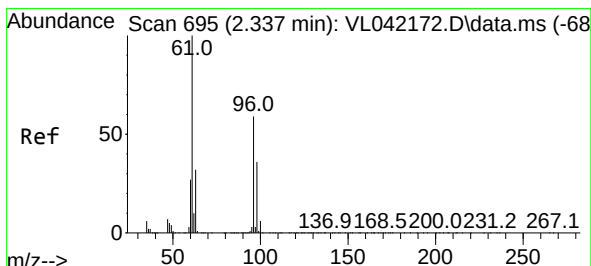
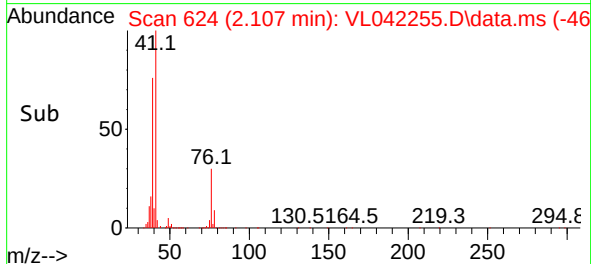
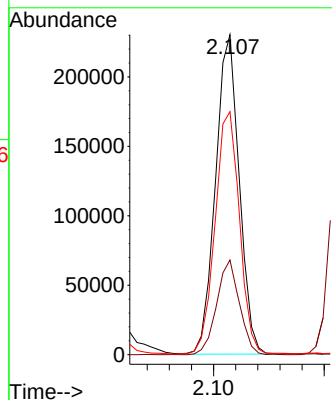
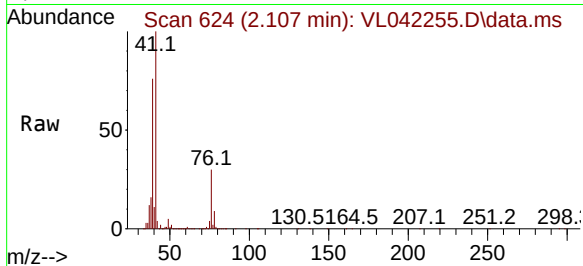
VL0408ABS01

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

Manual Integrations

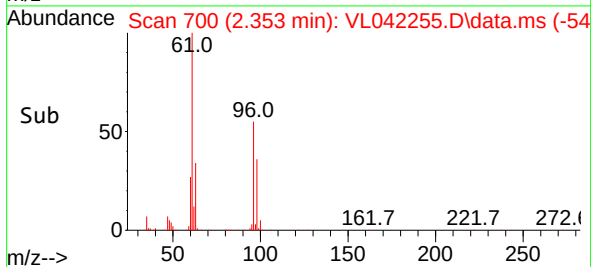
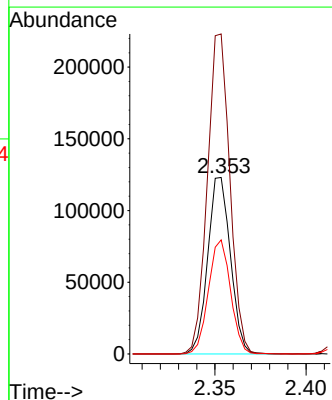
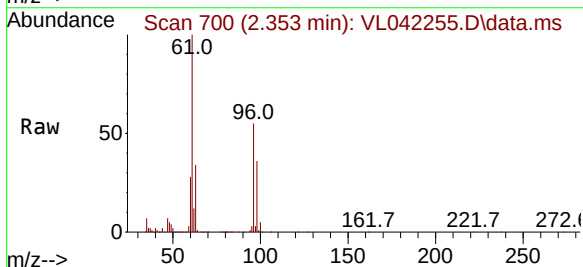
APPROVED

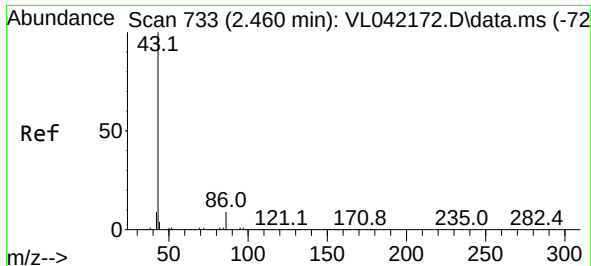
Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#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 :

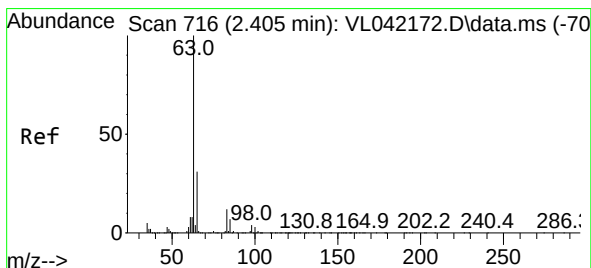
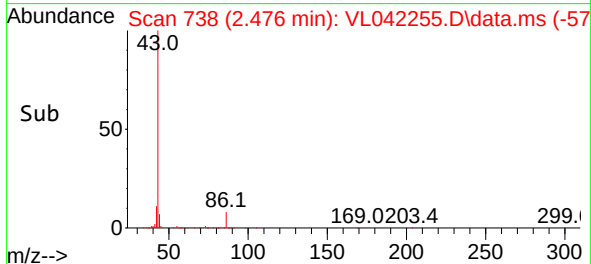
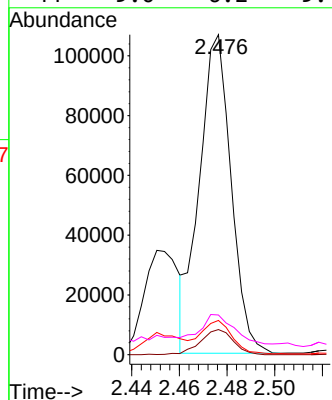
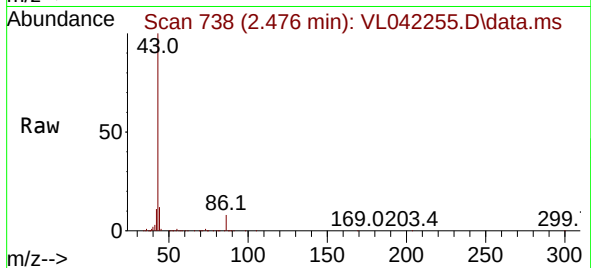
VL0408ABS01

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

Manual Integrations

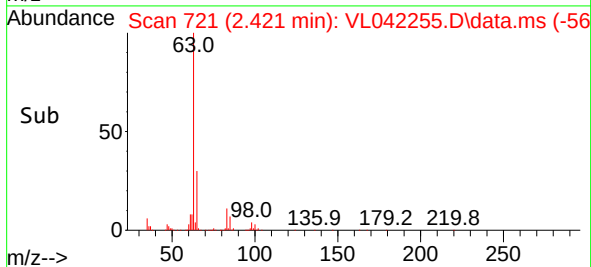
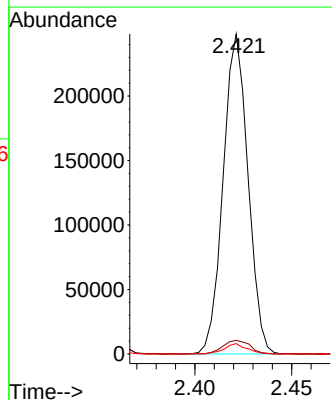
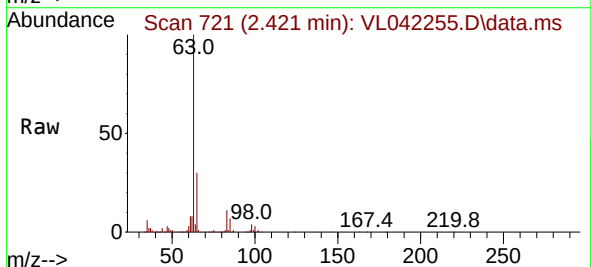
APPROVED

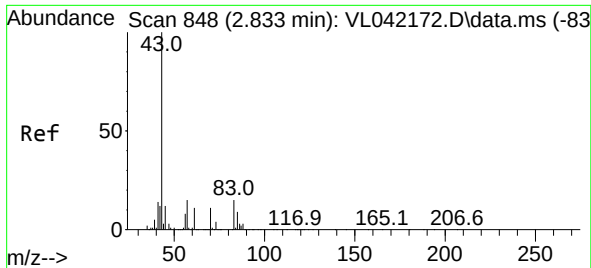
Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#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

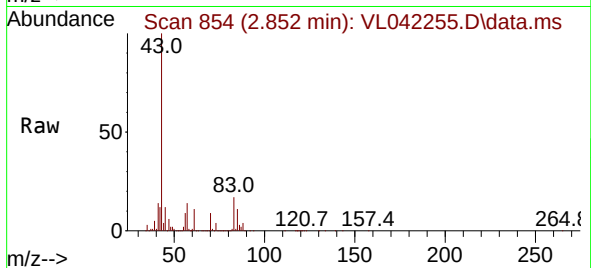
Tgt Ion: 63 Resp: 221032
 Ion Ratio Lower Upper
 63 100
 98 4.2 2.3 6.8
 100 3.3 1.6 4.7





#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

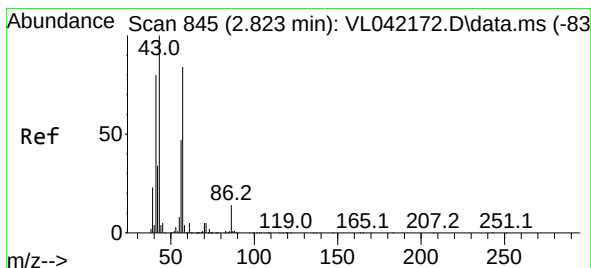
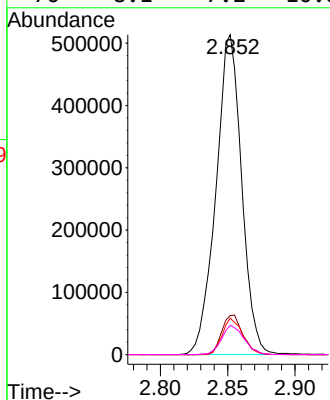
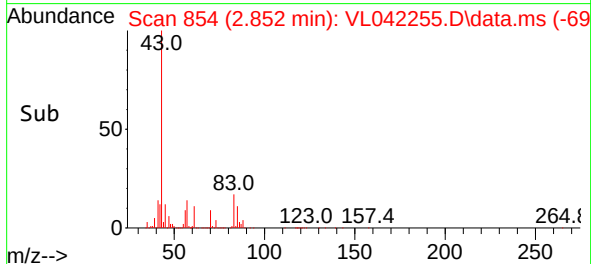
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01



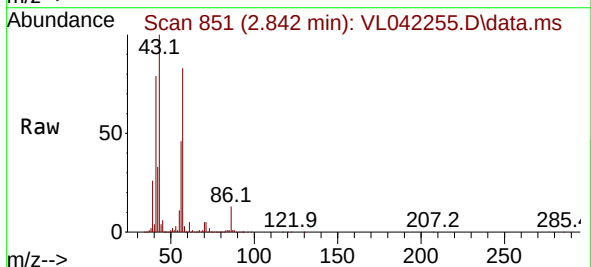
Tgt Ion: 43 Resp: 68113
Ion Ratio Lower Upper
43 100
45 10.2 8.2 12.2
61 9.2 7.3 10.9
70 8.1 7.2 10.8

Manual Integrations
APPROVED

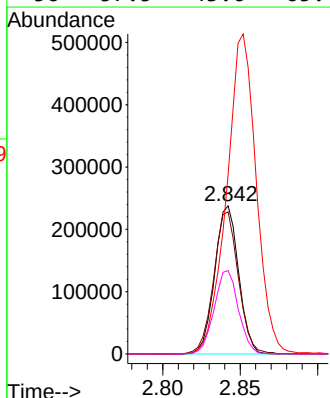
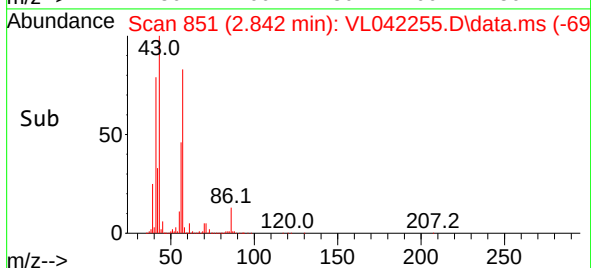
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

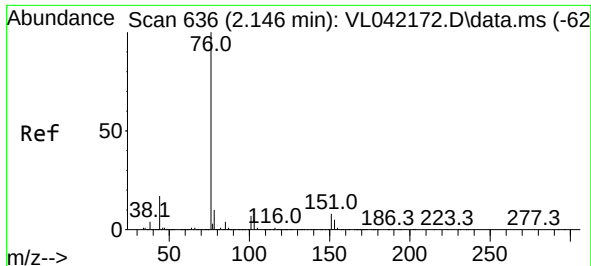


#26
Hexane
Concen: 9.519 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.019 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05



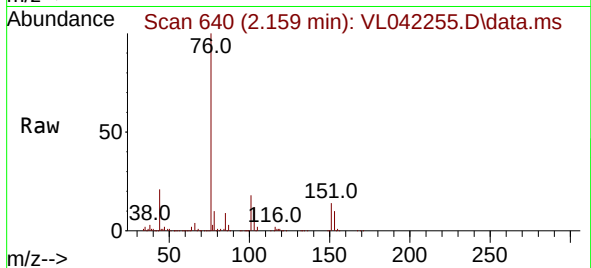
Tgt Ion: 57 Resp: 254141
Ion Ratio Lower Upper
57 100
41 99.4 76.6 114.8
43 268.9 207.8 311.8
56 57.5 43.6 65.4





#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

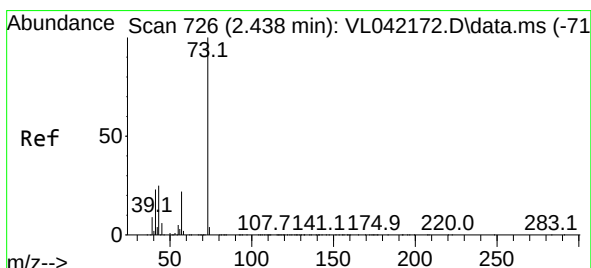
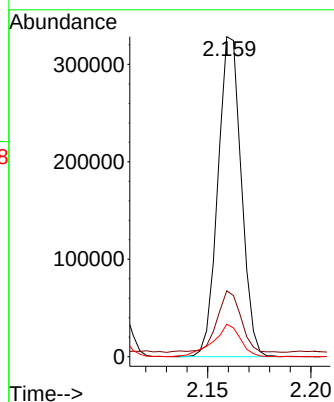
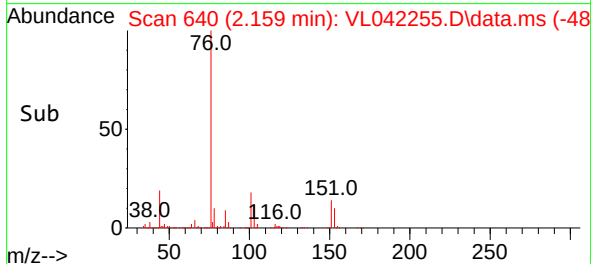
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01



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

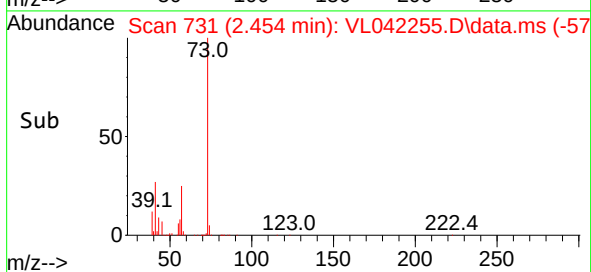
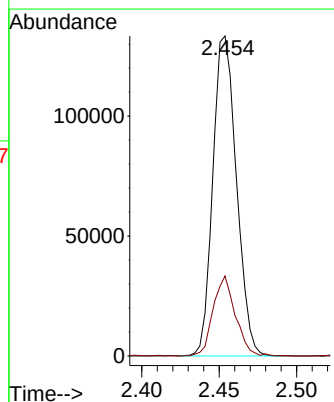
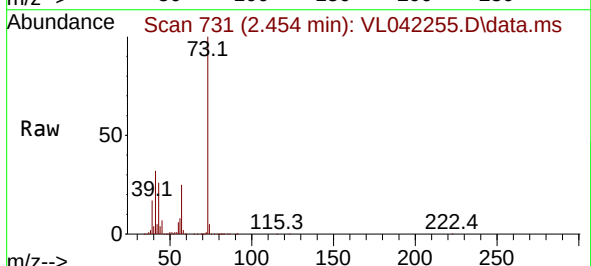
Manual Integrations
APPROVED

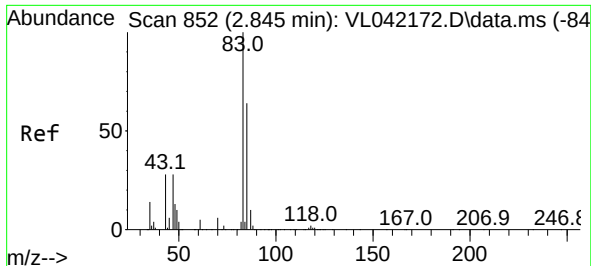
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#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

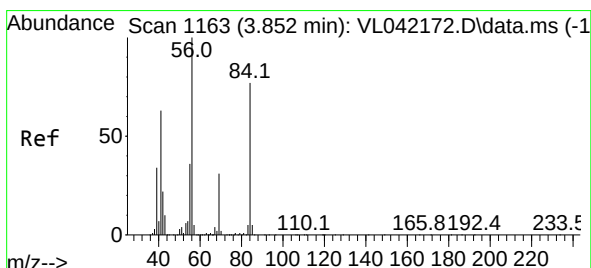
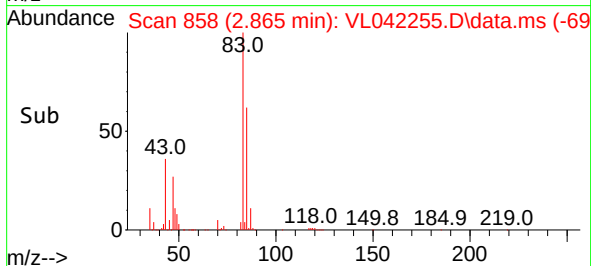
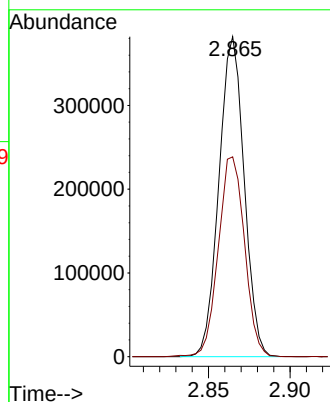
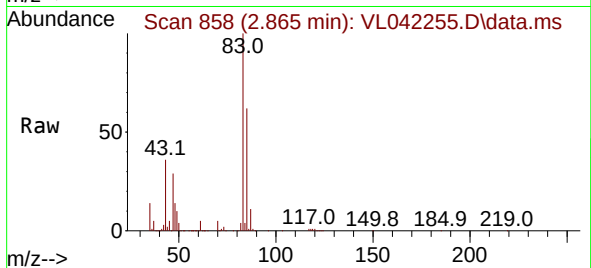
85 62.4 51.4 77.2

Manual Integrations

APPROVED

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

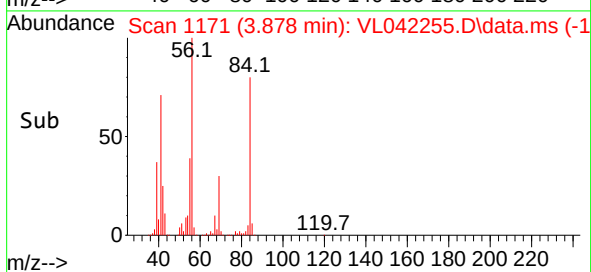
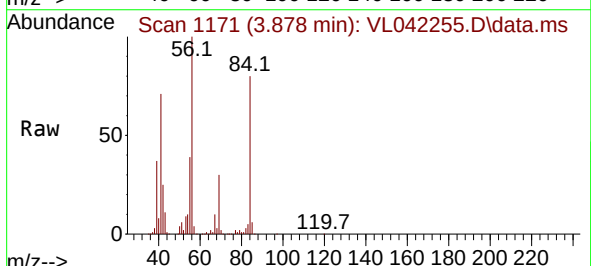
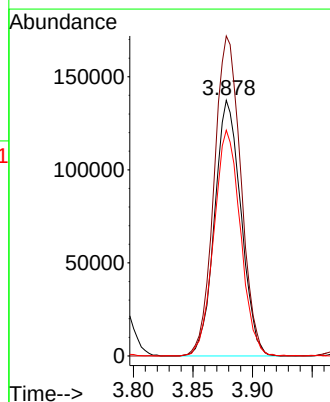
Tgt Ion: 84 Resp: 211231

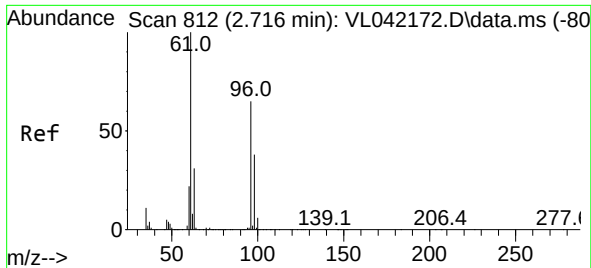
Ion Ratio Lower Upper

84 100

56 126.6 102.8 154.2

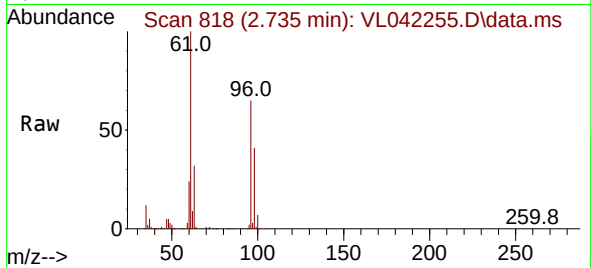
41 88.8 66.5 99.7





#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

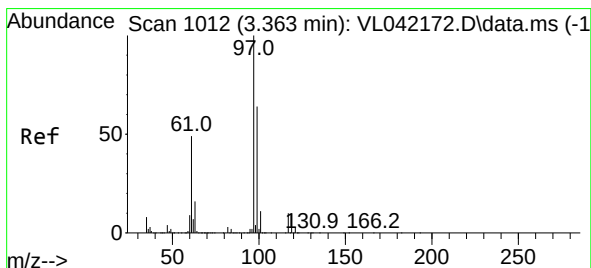
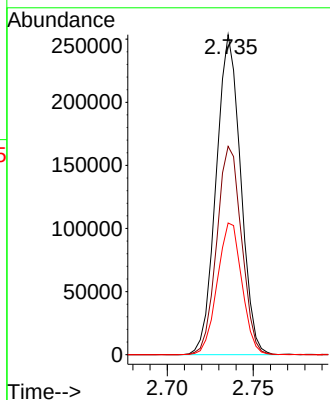
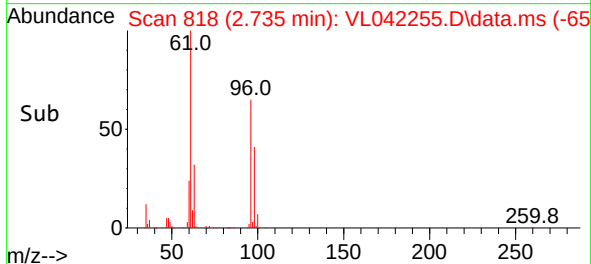
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0408ABS01



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

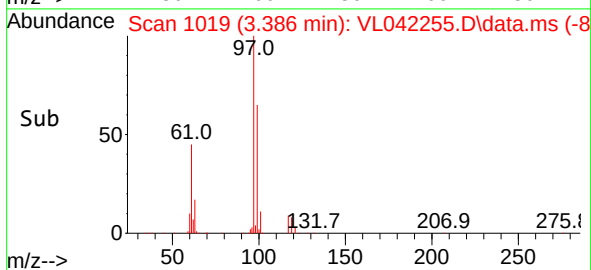
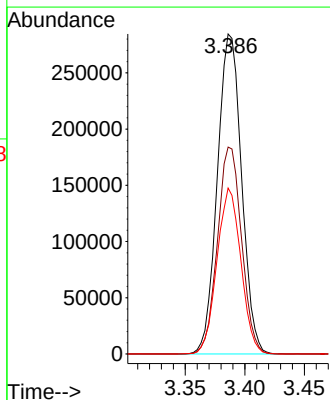
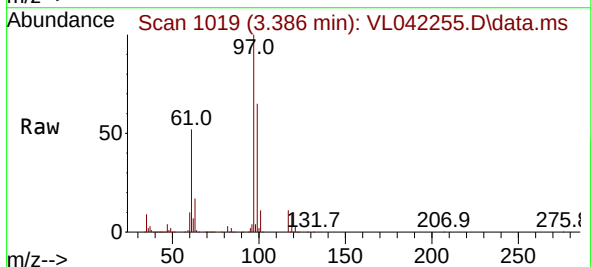
Manual Integrations
 APPROVED

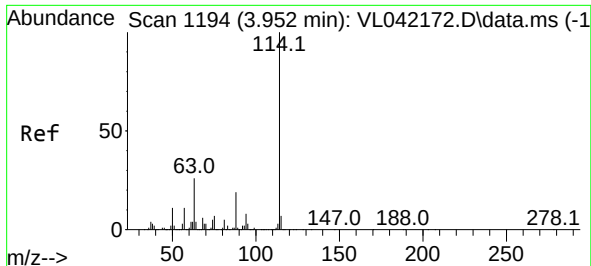
Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#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

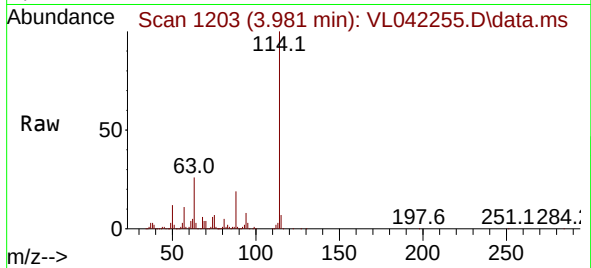
Tgt Ion: 97 Resp: 402513
 Ion Ratio Lower Upper
 97 100
 99 64.2 51.5 77.3
 61 51.2 38.7 58.1





#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

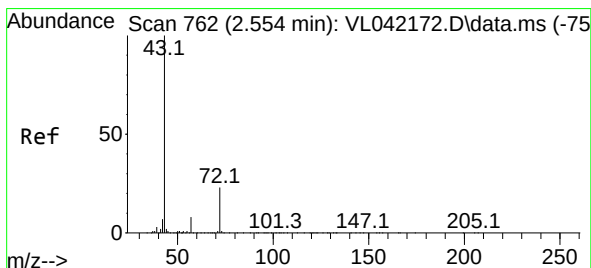
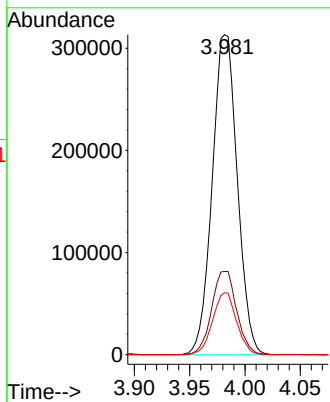
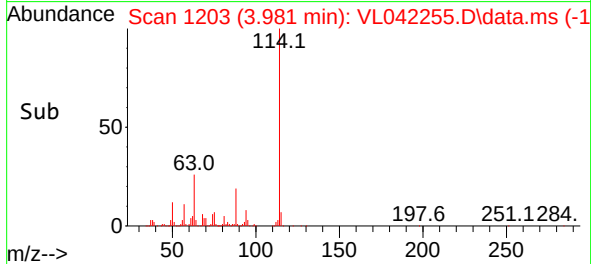
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01



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

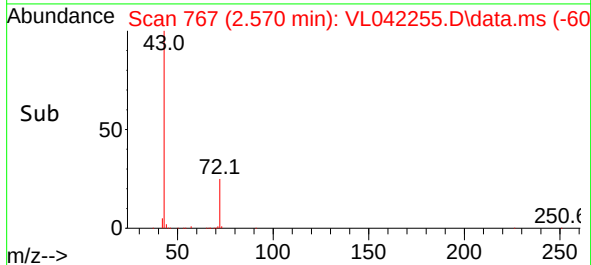
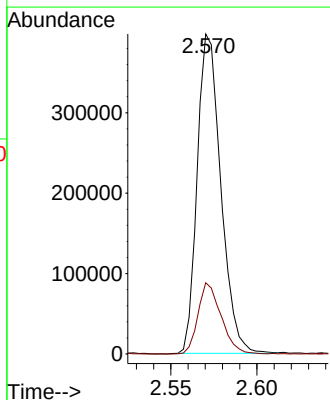
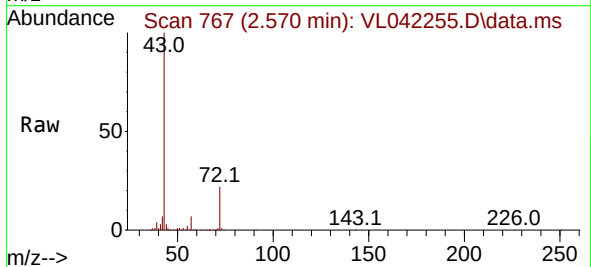
Manual Integrations
APPROVED

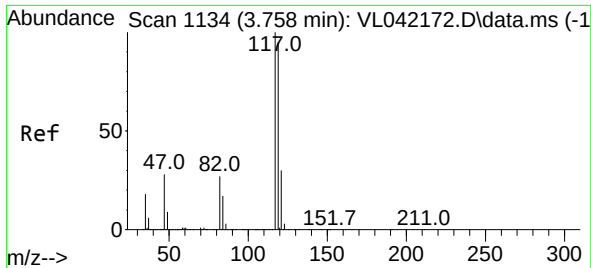
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#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

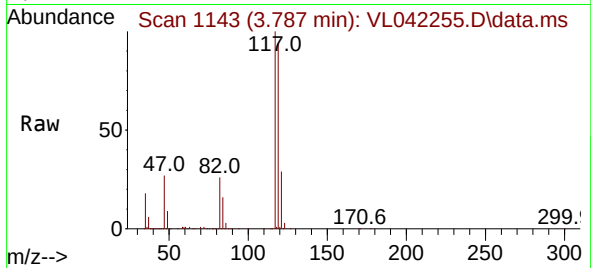
Tgt Ion: 43 Resp: 379327
Ion Ratio Lower Upper
43 100
72 21.8 18.2 27.2





#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

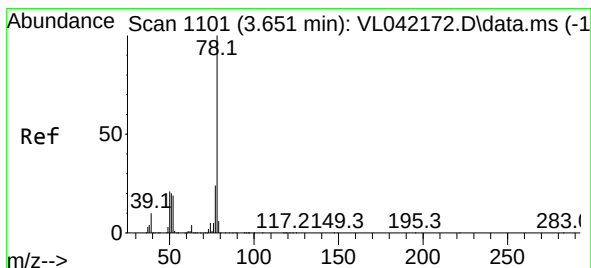
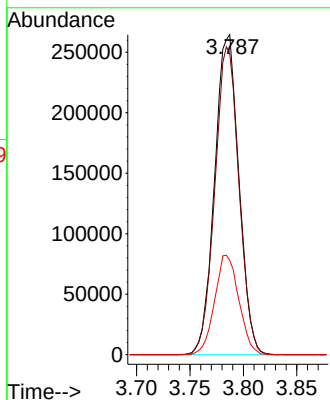
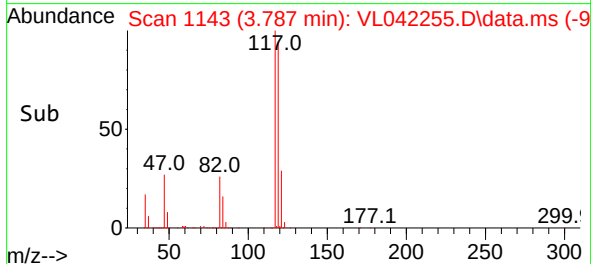
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01



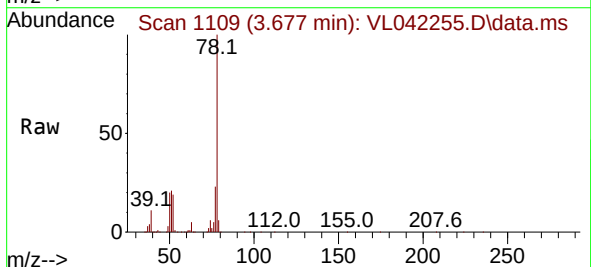
Tgt Ion: 117 Resp: 418420
Ion Ratio Lower Upper
117 100
119 94.1 76.2 114.2
121 29.5 24.2 36.4

Manual Integrations
APPROVED

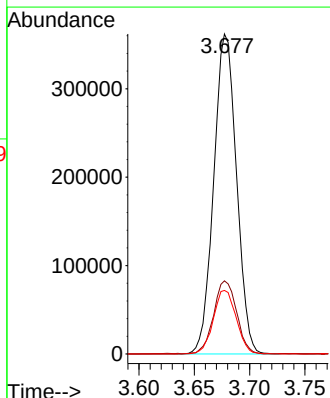
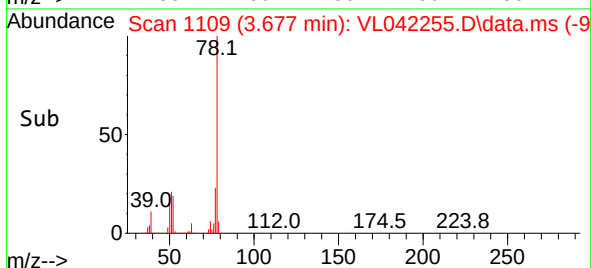
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

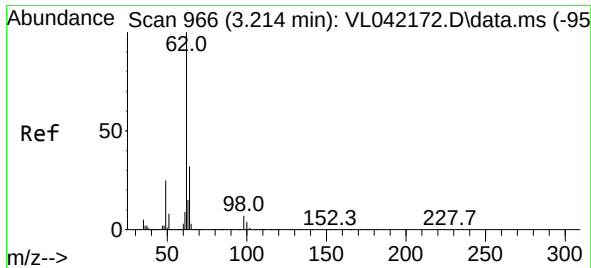


#36
Benzene
Concen: 10.564 ppbv
RT: 3.677 min Scan# 1109
Delta R.T. 0.026 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05



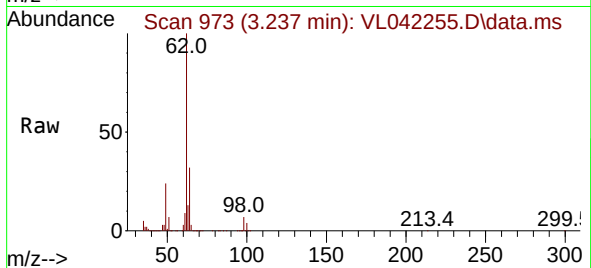
Tgt Ion: 78 Resp: 518095
Ion Ratio Lower Upper
78 100
77 22.8 19.1 28.7
50 19.9 16.6 24.8





#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

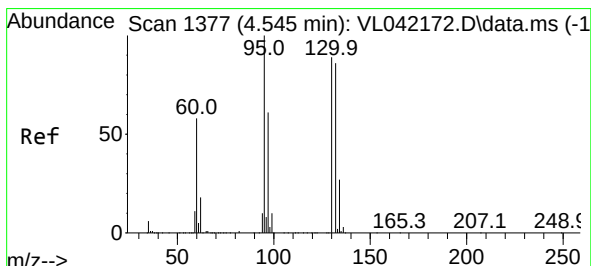
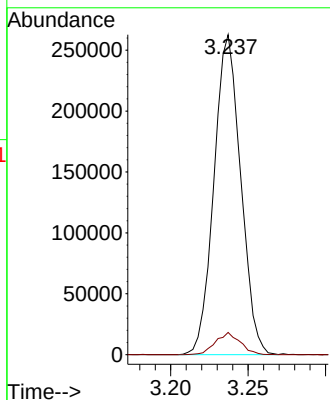
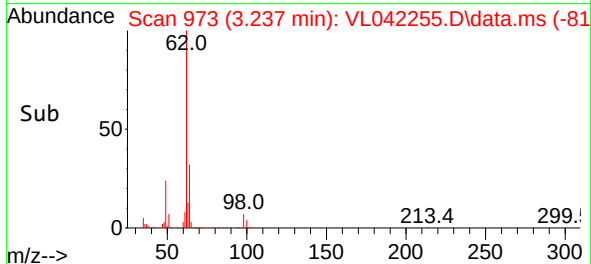
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01



Tgt Ion: 62 Resp: 315190
Ion Ratio Lower Upper
62 100
98 6.4 5.4 8.2

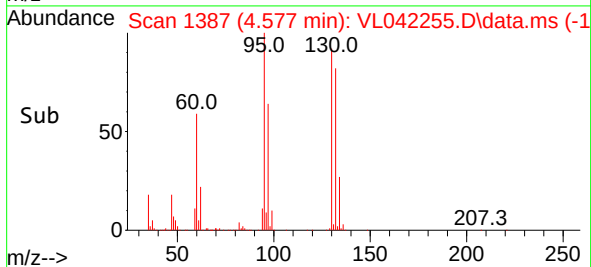
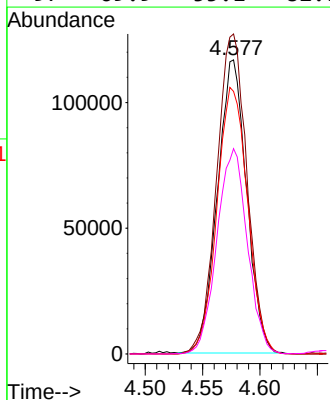
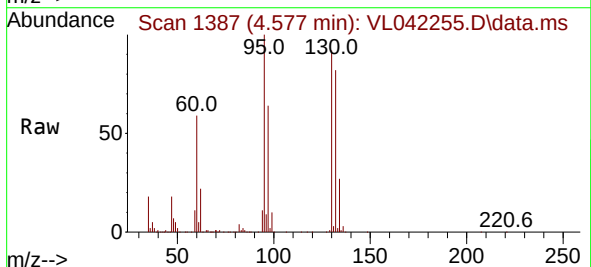
Manual Integrations
APPROVED

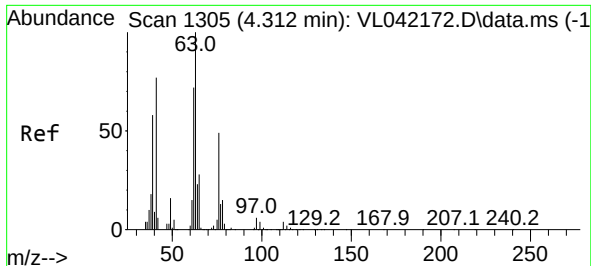
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#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

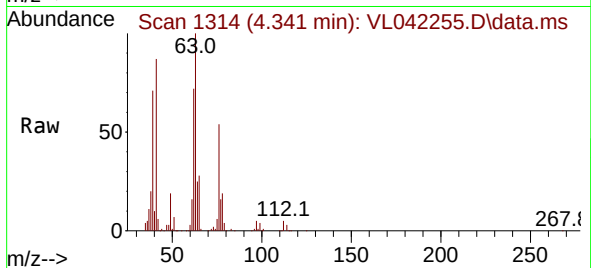
Acq: 08 Apr 2025 10:05

Instrument :

MSVOA_L

ClientSampleId :

VL0408ABS01

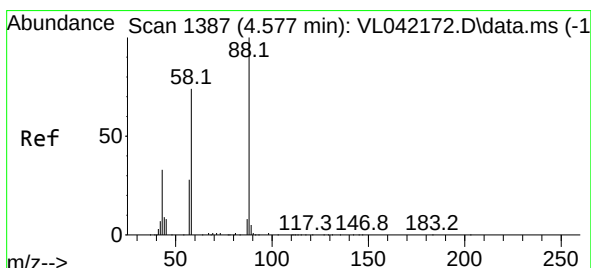
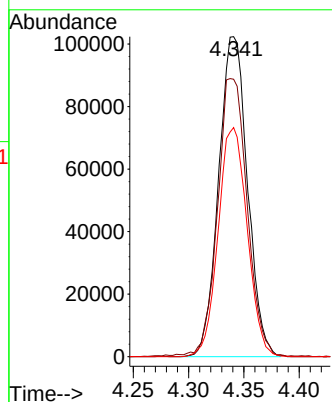
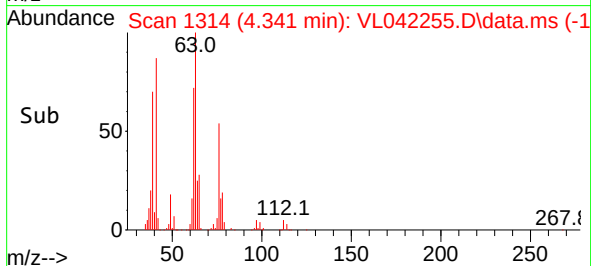


Tgt Ion:	63	Resp:	18579
Ion Ratio	100	Lower	Upper
63	100		
41	86.0	61.7	92.5
62	71.6	57.6	86.4

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

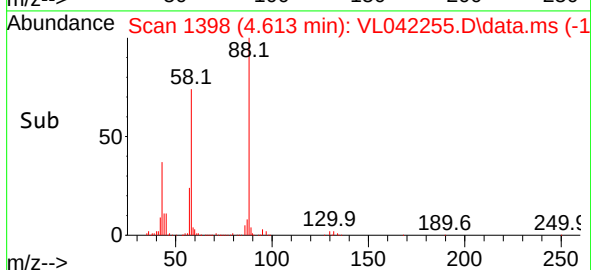
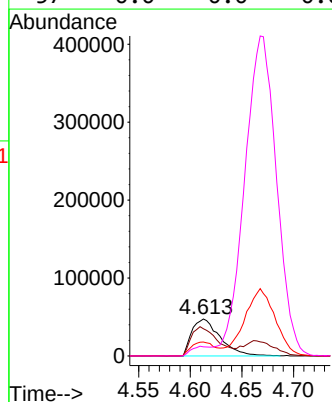
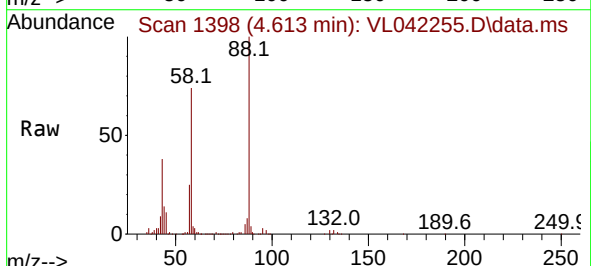
RT: 4.613 min Scan# 1398

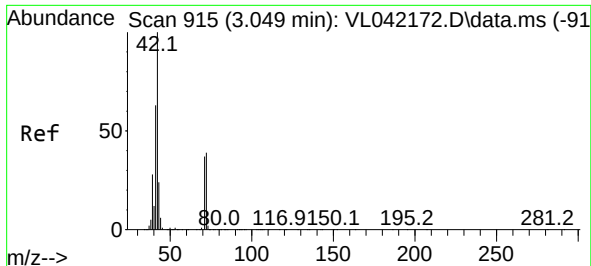
Delta R.T. 0.036 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

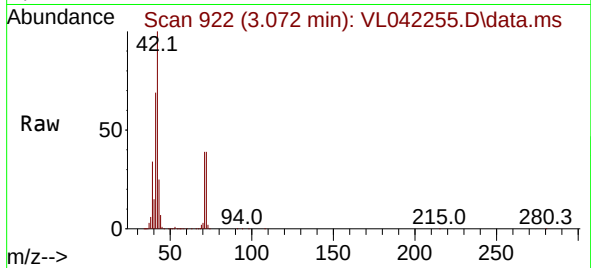
Tgt Ion:	88	Resp:	91079
Ion Ratio	100	Lower	Upper
88	100		
58	72.4	62.7	94.1
43	34.3	23.0	34.4
57	0.0	0.0	0.0





#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

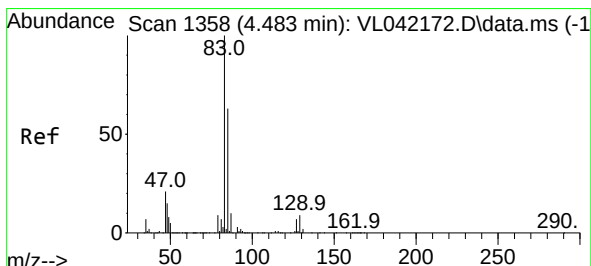
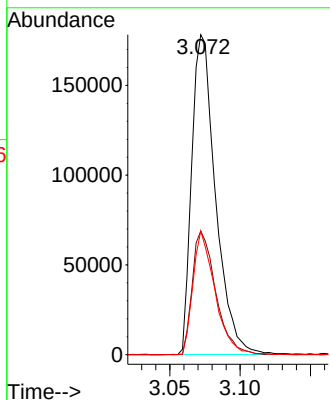
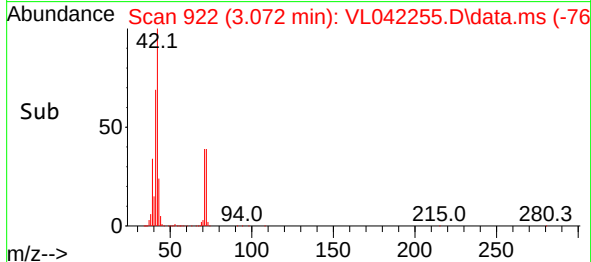
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01



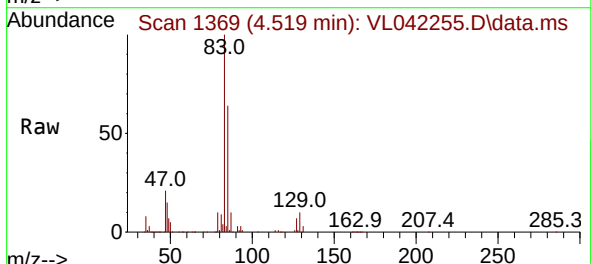
Tgt Ion: 42 Resp: 210024
Ion Ratio Lower Upper
42 100
72 38.1 31.4 47.0
71 35.8 30.2 45.4

Manual Integrations
APPROVED

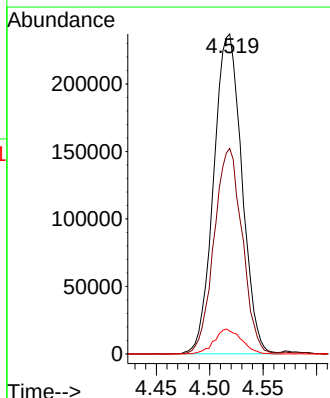
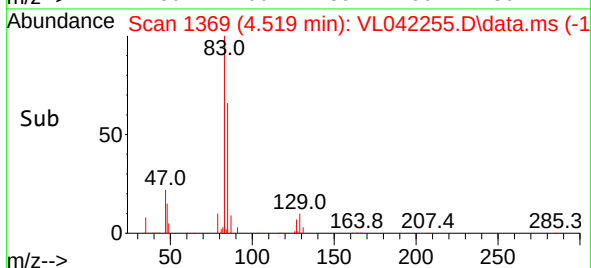
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

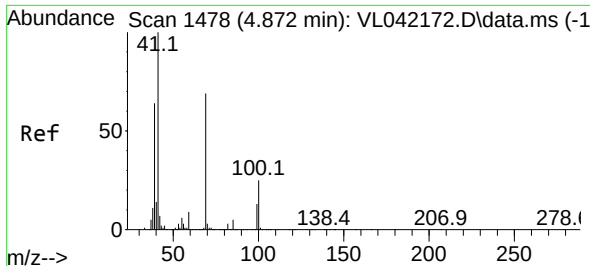


#42
Bromodichloromethane
Concen: 11.217 ppbv
RT: 4.519 min Scan# 1369
Delta R.T. 0.036 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05



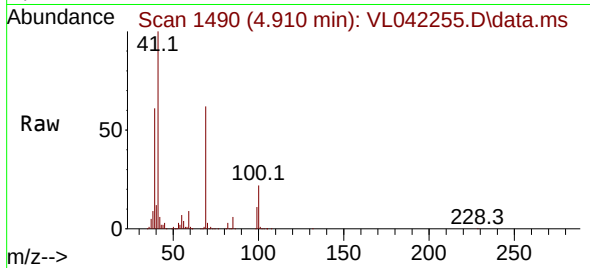
Tgt Ion: 83 Resp: 434165
Ion Ratio Lower Upper
83 100
85 64.2 50.5 75.7
127 7.2 5.9 8.9





#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

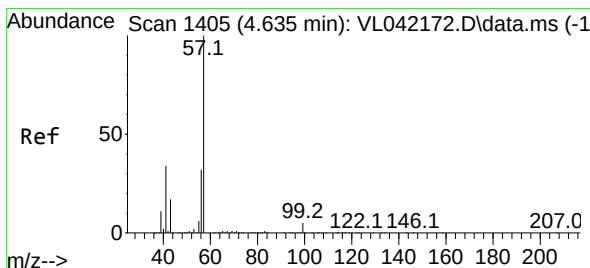
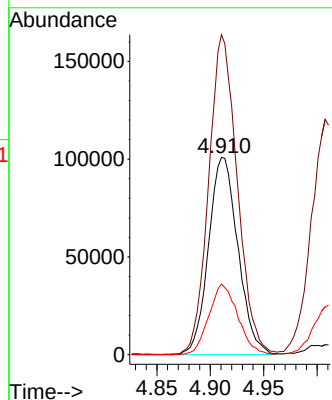
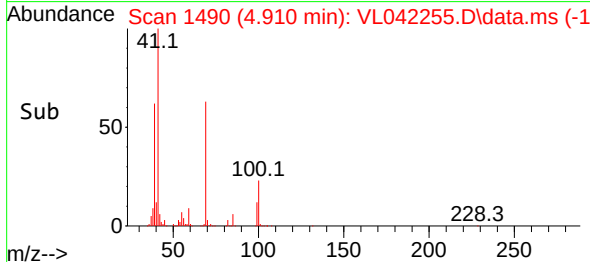
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01



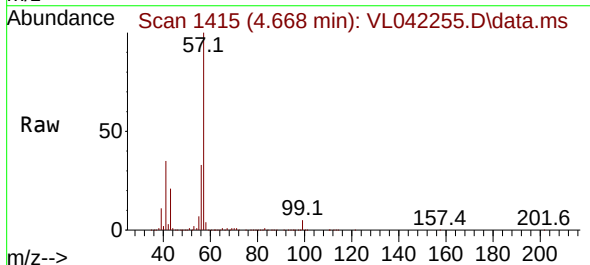
Tgt Ion: 69 Resp: 19259
Ion Ratio Lower Upper
69 100
41 157.9 123.8 185.6
100 35.4 28.4 42.6

Manual Integrations
APPROVED

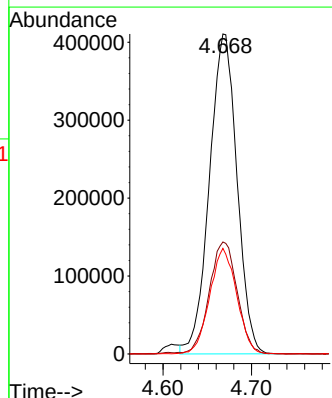
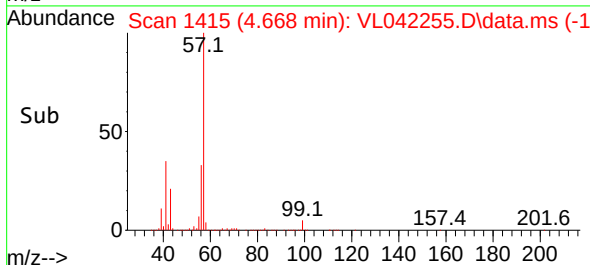
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

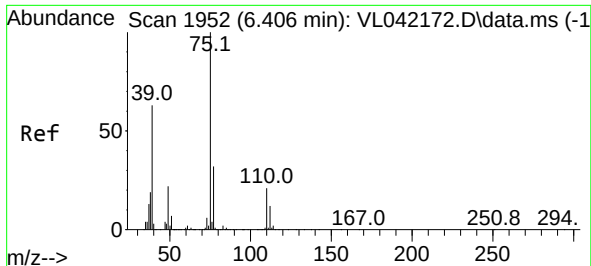


#44
2,2,4-Trimethylpentane
Concen: 10.701 ppbv
RT: 4.668 min Scan# 1415
Delta R.T. 0.032 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05



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

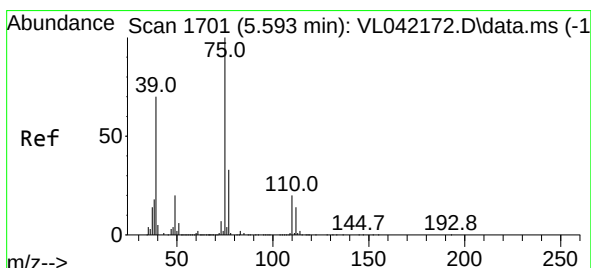
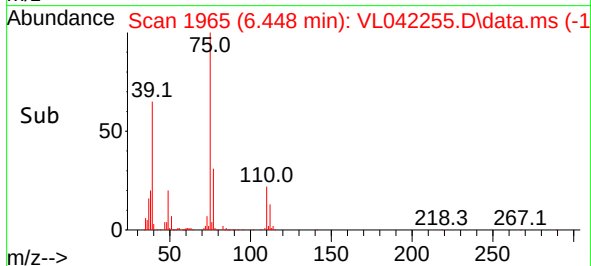
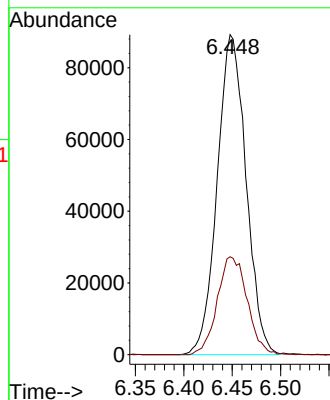
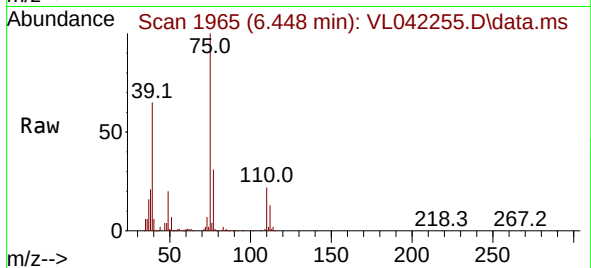
77 30.6 26.0 39.0

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

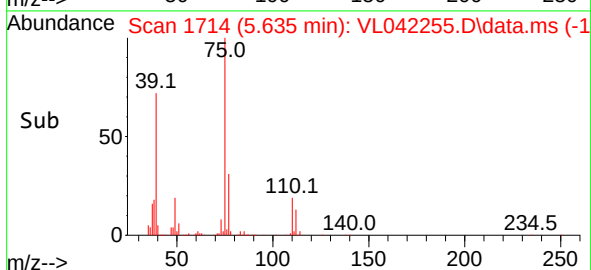
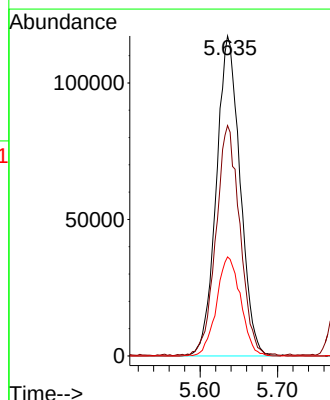
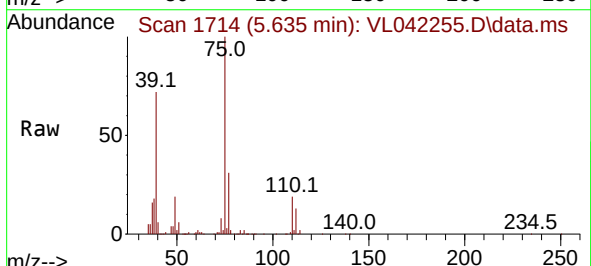
Tgt Ion: 75 Resp: 249791

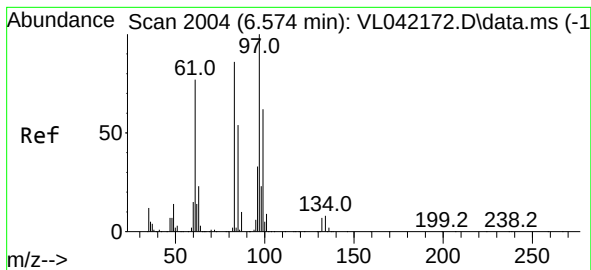
Ion Ratio Lower Upper

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

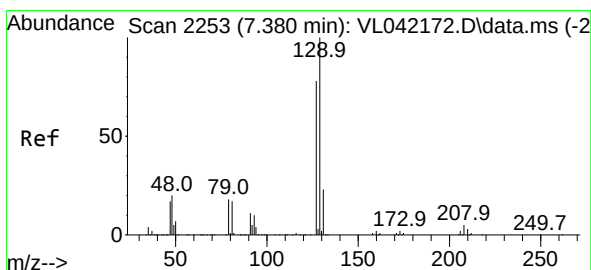
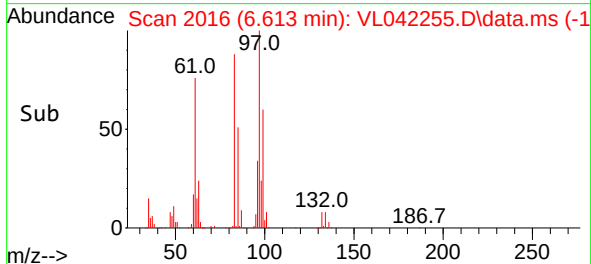
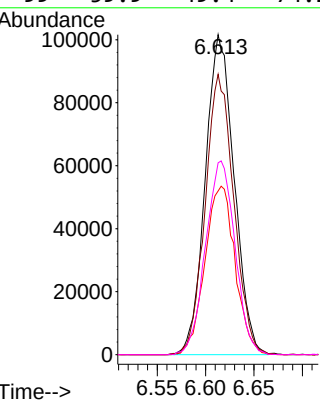
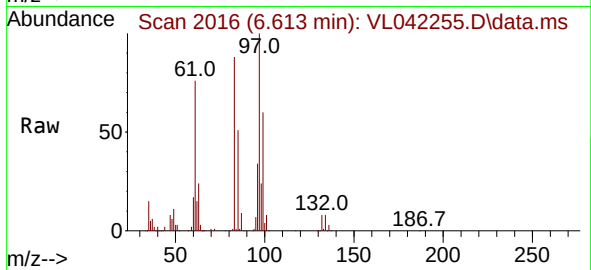
99 59.9 49.4 74.2

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

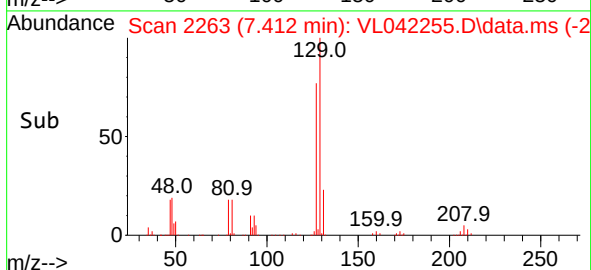
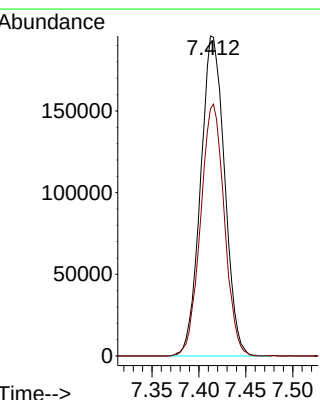
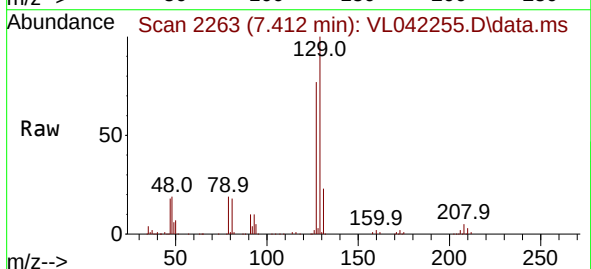
Acq: 08 Apr 2025 10:05

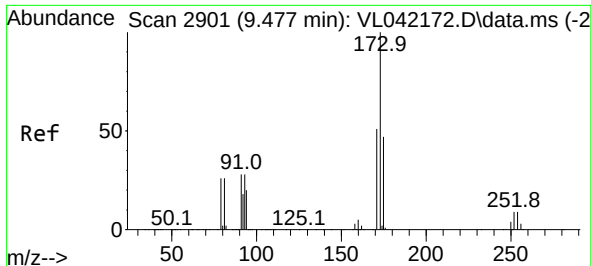
Tgt Ion:129 Resp: 348149

Ion Ratio Lower Upper

129 100

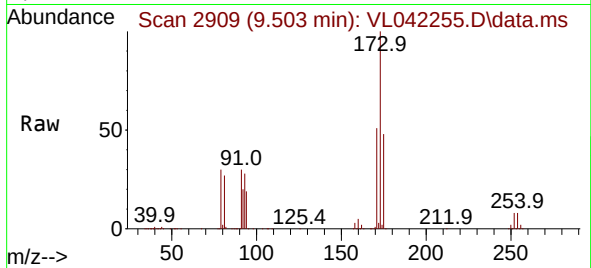
127 77.6 39.1 117.2





#49
Bromoform
Concen: 10.703 ppbv
RT: 9.503 min Scan# 2909
Delta R.T. 0.026 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

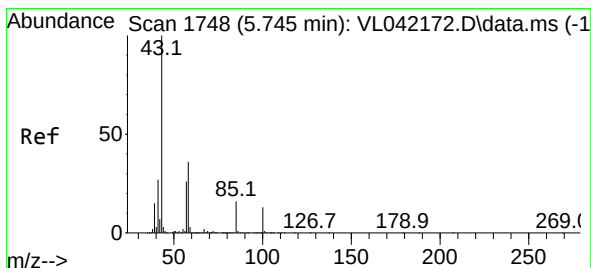
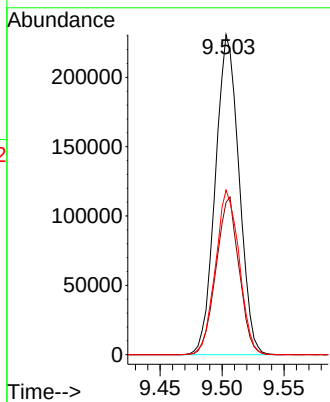
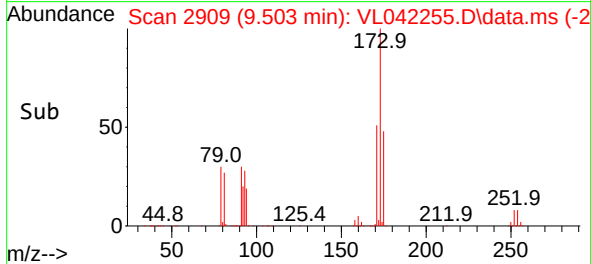
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01



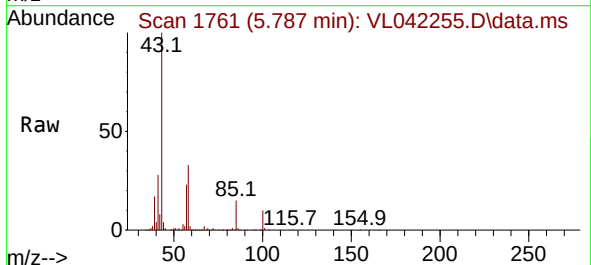
Tgt Ion:173 Resp: 30746
Ion Ratio Lower Upper
173 100
175 47.9 38.6 57.8
171 51.5 41.8 62.6

Manual Integrations
APPROVED

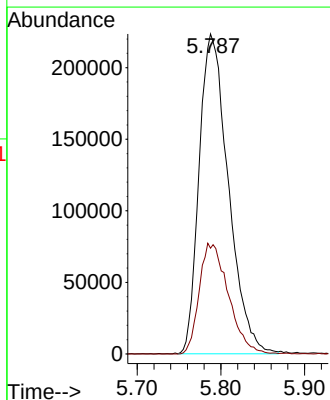
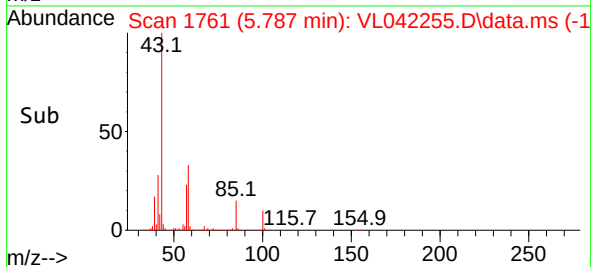
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

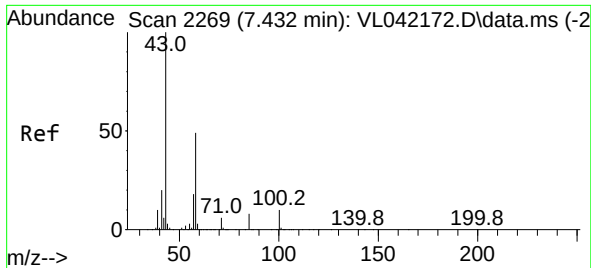


#50
4-Methyl-2-Pentanone
Concen: 9.554 ppbv
RT: 5.787 min Scan# 1761
Delta R.T. 0.042 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05



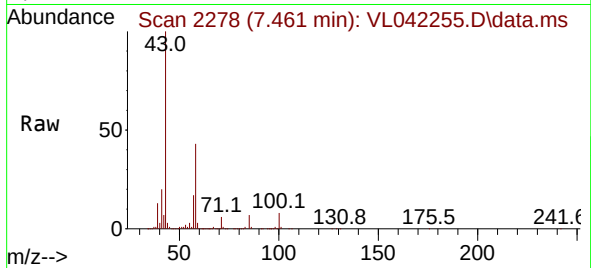
Tgt Ion: 43 Resp: 543140
Ion Ratio Lower Upper
43 100
58 34.5 29.0 43.6





#51
2-Hexanone
Concen: 9.463 ppbv
RT: 7.461 min Scan# 21
Delta R.T. 0.029 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

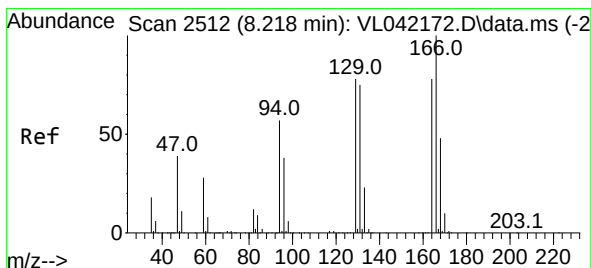
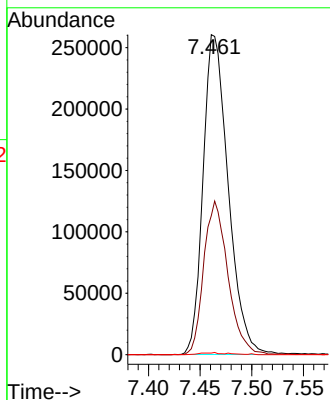
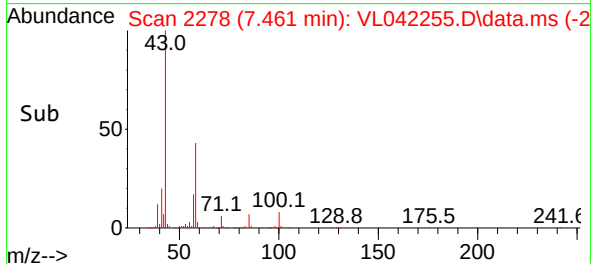
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01



Tgt Ion: 43 Resp: 44174
Ion Ratio Lower Upper
43 100
58 46.3 39.7 59.5
98 0.7 0.1 0.1

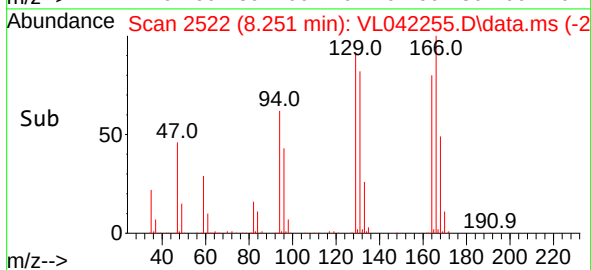
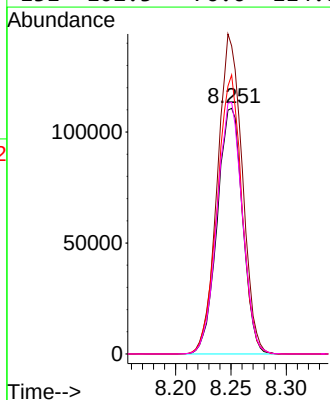
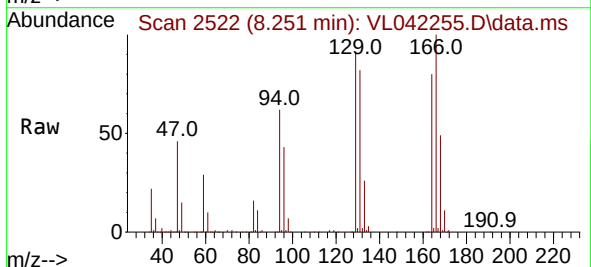
Manual Integrations
APPROVED

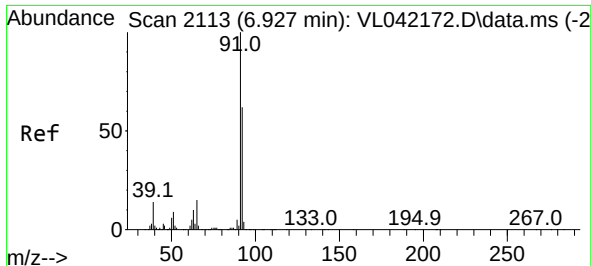
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#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





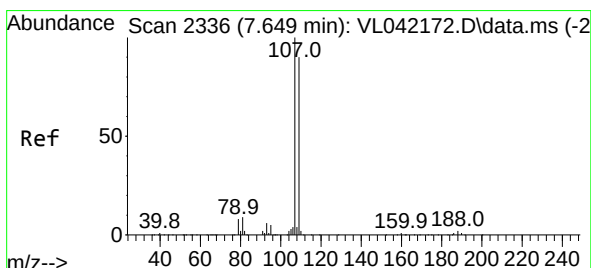
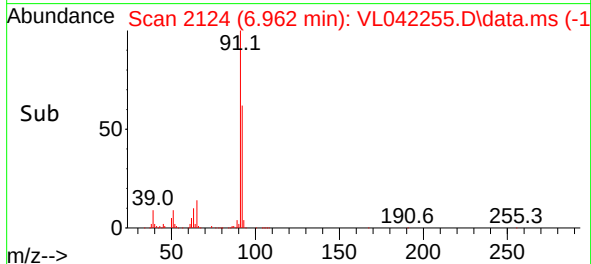
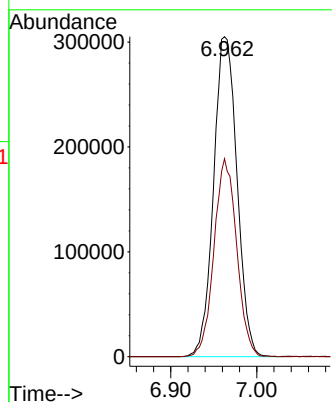
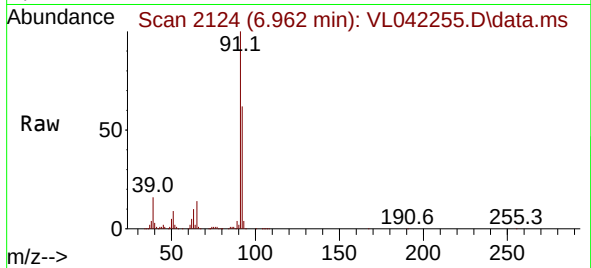
#53
Toluene
Concen: 9.947 ppbv
RT: 6.962 min Scan# 2113
Delta R.T. 0.036 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01

Tgt Ion: 91 Resp: 57826
Ion Ratio Lower Upper
91 100
92 59.8 48.4 72.6

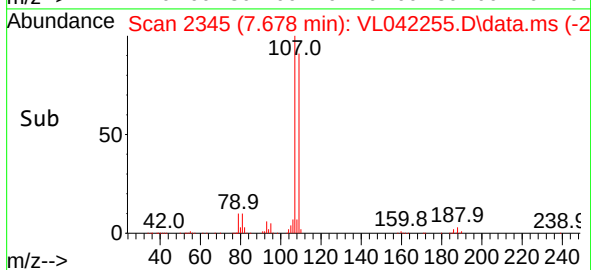
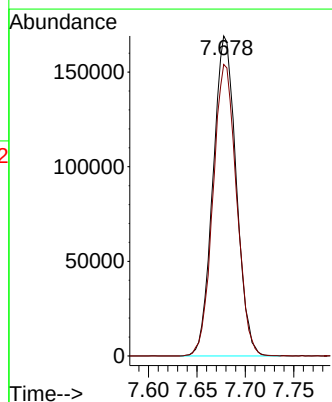
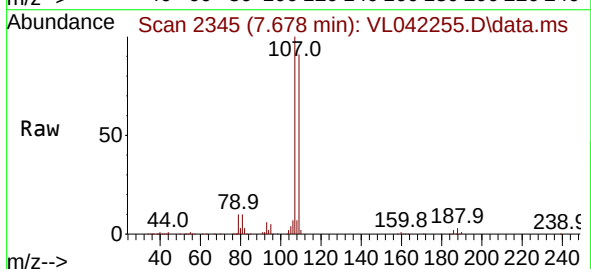
Manual Integrations
APPROVED

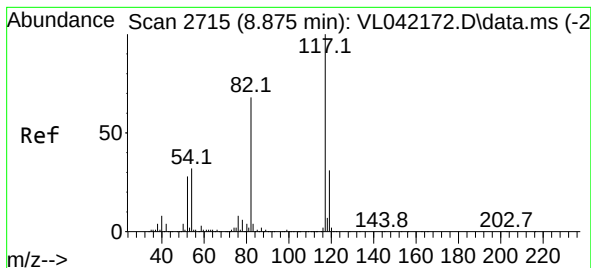
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#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# 21

Delta R.T. 0.029 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Instrument :

MSVOA_L

ClientSampleId :

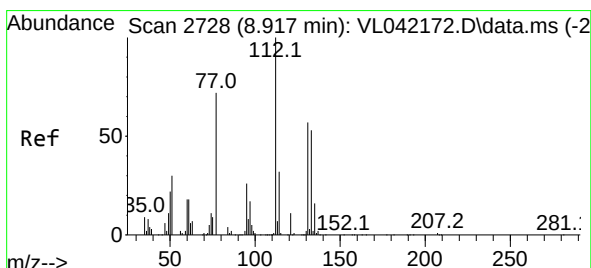
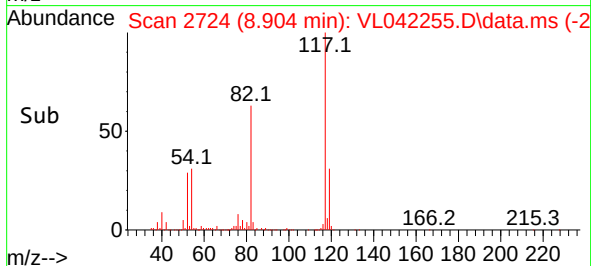
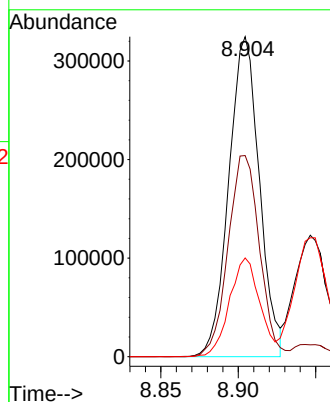
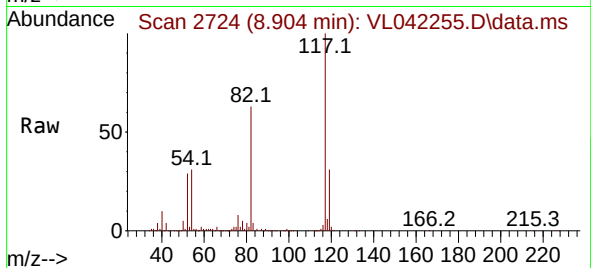
VL0408ABS01

Tgt Ion:	117	Resp:	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

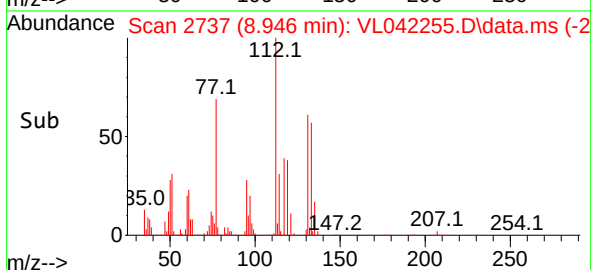
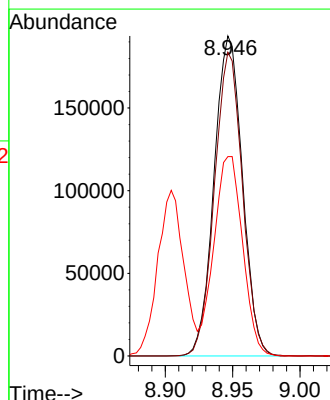
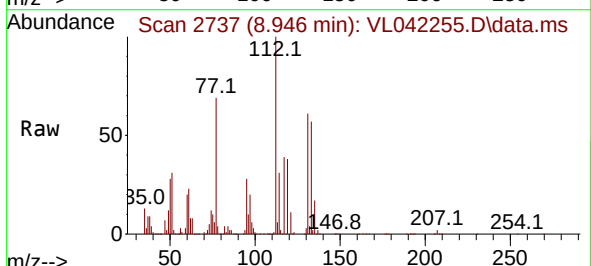
RT: 8.946 min Scan# 2737

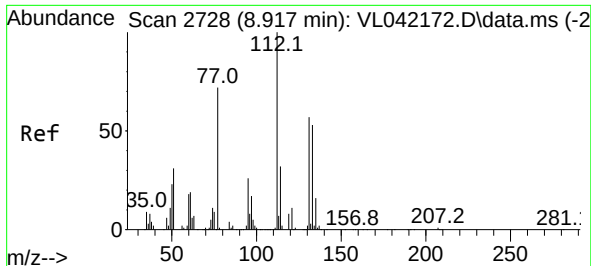
Delta R.T. 0.029 min

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# 21

Delta R.T. 0.026 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Instrument :

MSVOA_L

ClientSampleId :

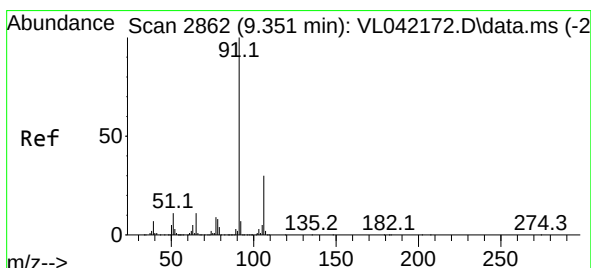
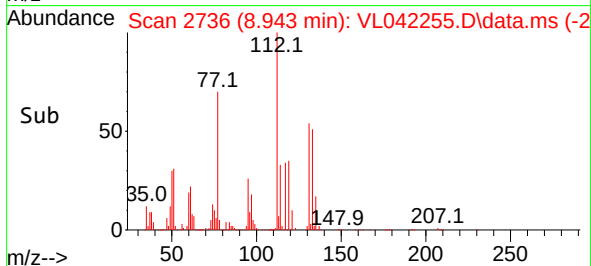
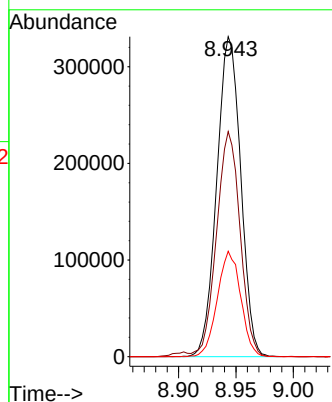
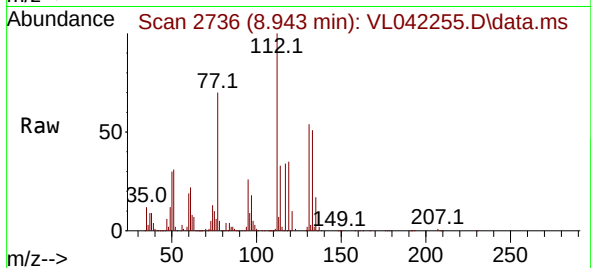
VL0408ABS01

Tgt Ion:112	Resp: 48171
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

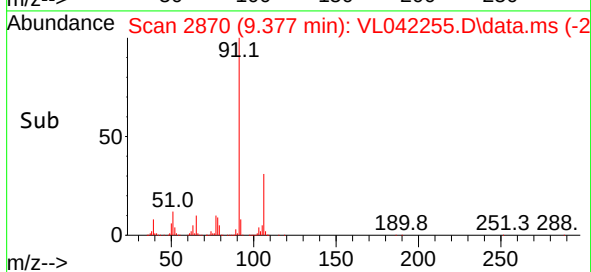
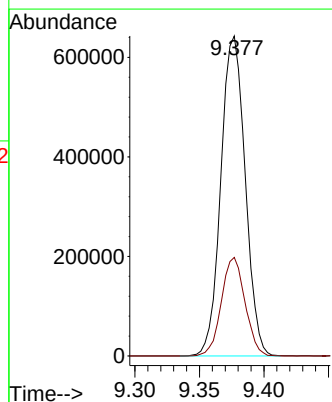
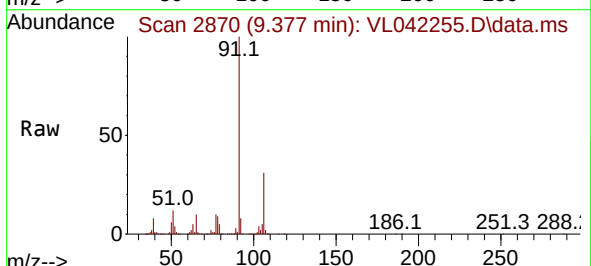
RT: 9.377 min Scan# 2870

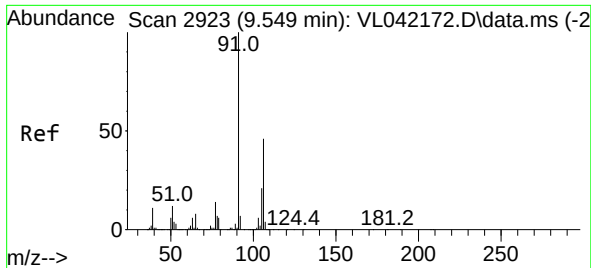
Delta R.T. 0.026 min

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

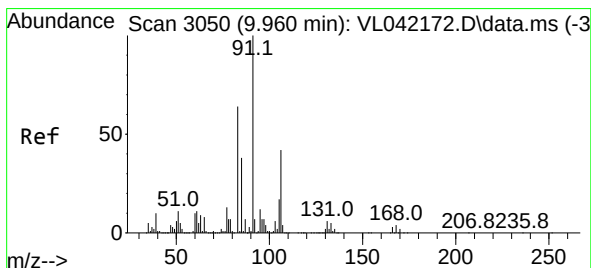
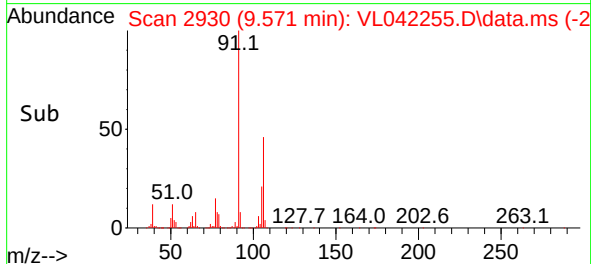
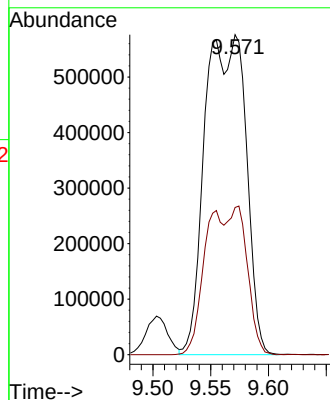
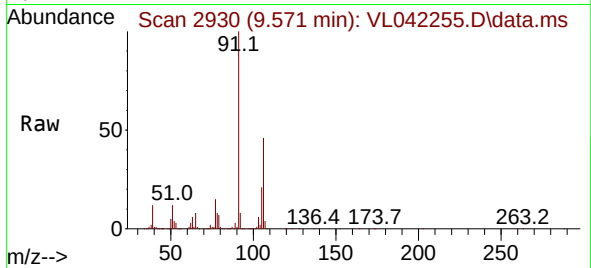
106 46.1 36.4 54.6

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

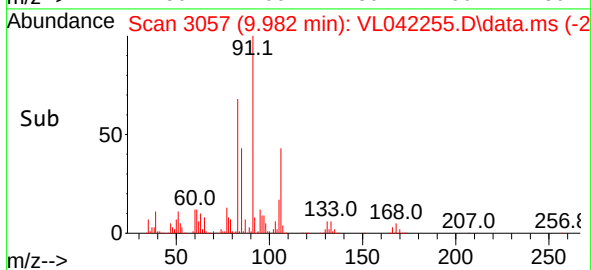
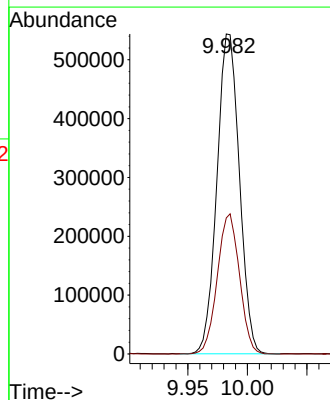
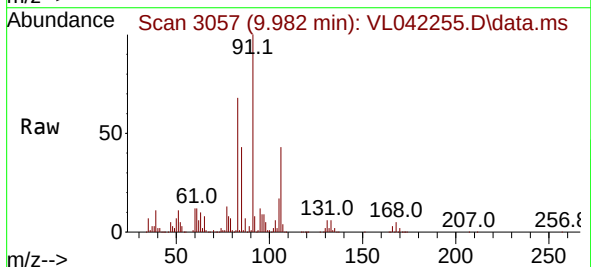
Acq: 08 Apr 2025 10:05

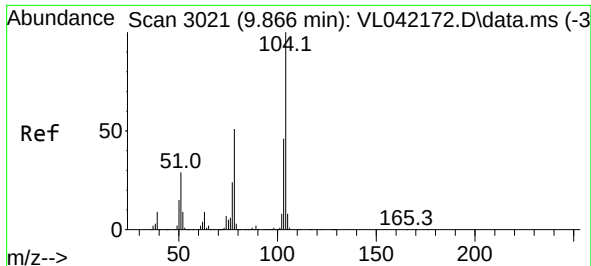
Tgt Ion: 91 Resp: 711568

Ion Ratio Lower Upper

91 100

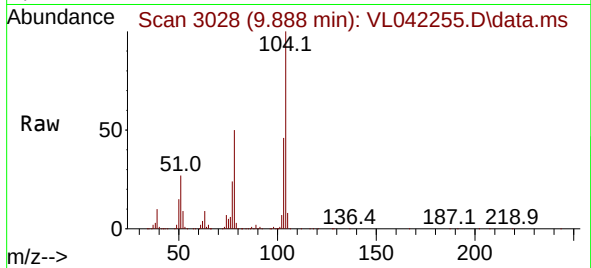
106 43.2 20.8 62.5





#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

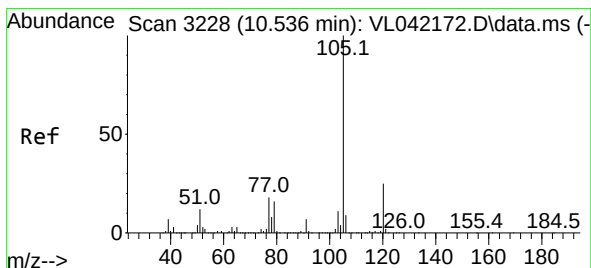
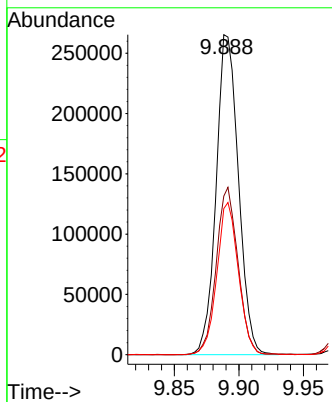
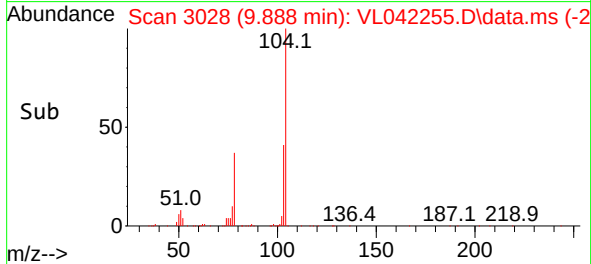
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01



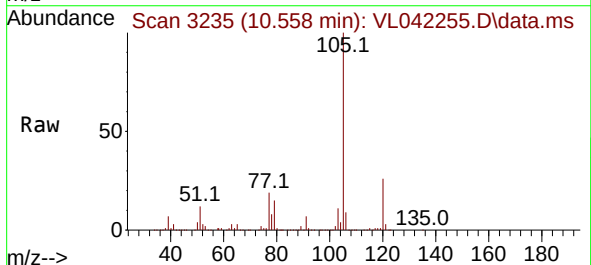
Tgt Ion:104 Resp: 31915
Ion Ratio Lower Upper
104 100
78 51.1 41.8 62.6
103 46.2 37.0 55.4

Manual Integrations
APPROVED

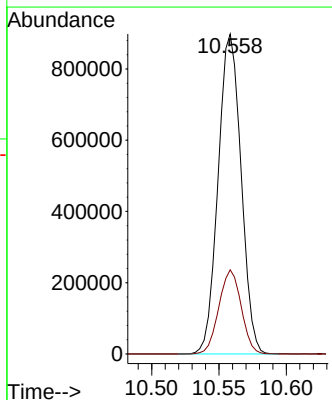
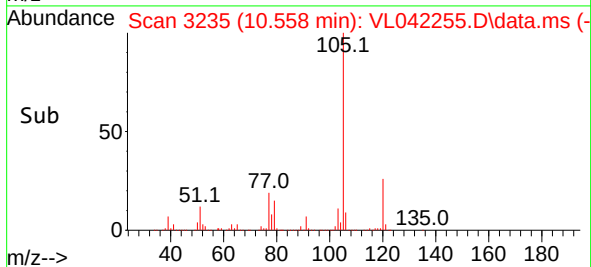
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

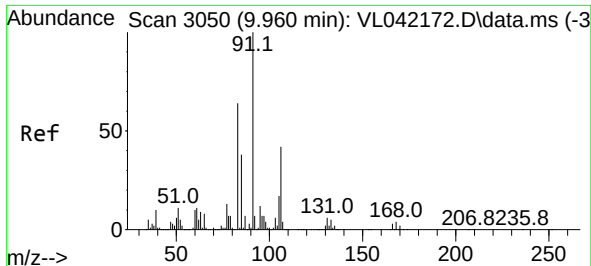


#62
Isopropylbenzene
Concen: 11.193 ppbv
RT: 10.558 min Scan# 3235
Delta R.T. 0.023 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05



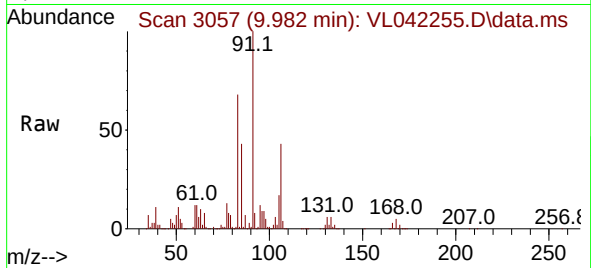
Tgt Ion:105 Resp: 1063992
Ion Ratio Lower Upper
105 100
120 25.5 19.9 29.9





#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

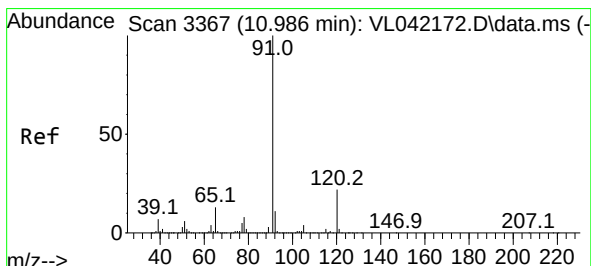
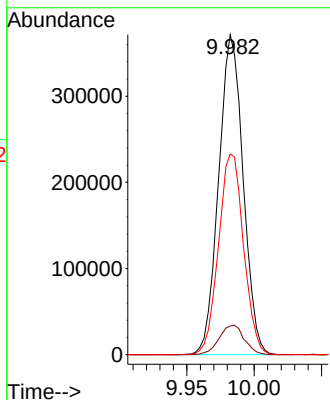
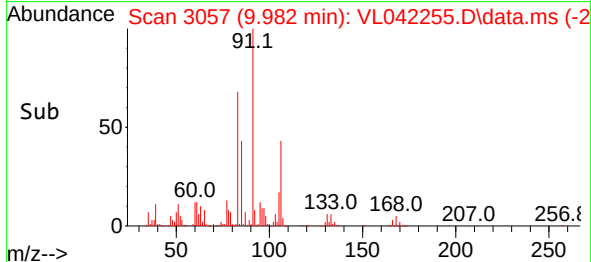
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01



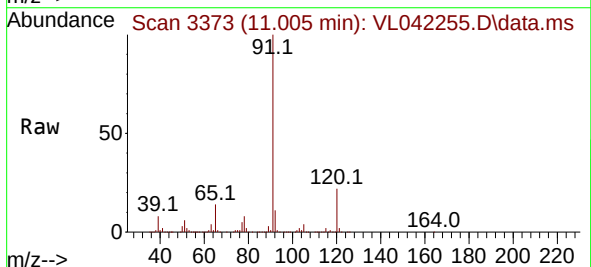
Tgt Ion: 83 Resp: 46885
Ion Ratio Lower Upper
83 100
131 9.5 4.8 14.4
85 64.2 32.5 97.5

Manual Integrations
APPROVED

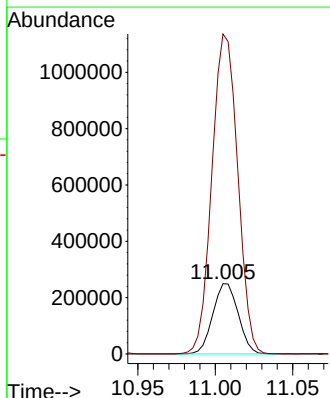
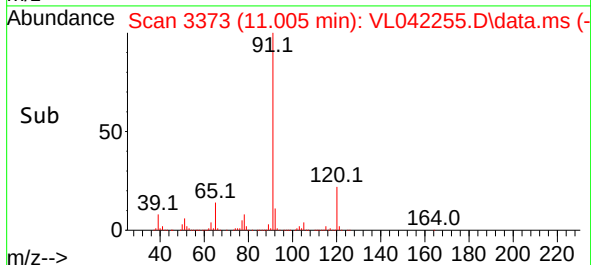
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

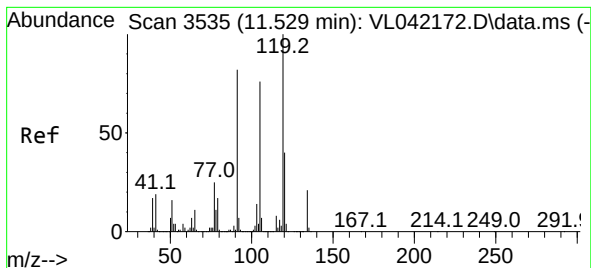


#64
n-propylbenzene
Concen: 11.638 ppbv
RT: 11.005 min Scan# 3373
Delta R.T. 0.019 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05



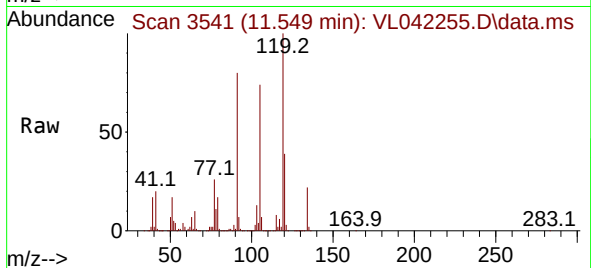
Tgt Ion:120 Resp: 284790
Ion Ratio Lower Upper
120 100
91 462.1 376.9 565.3





#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

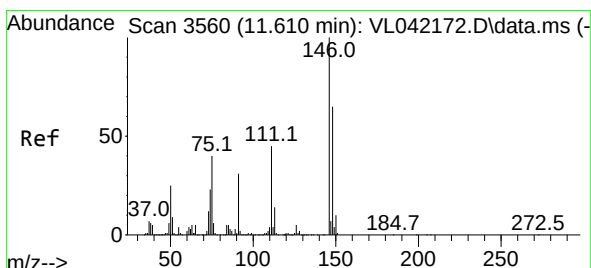
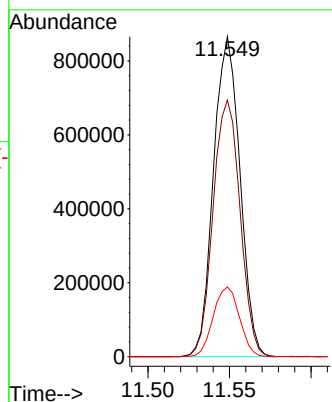
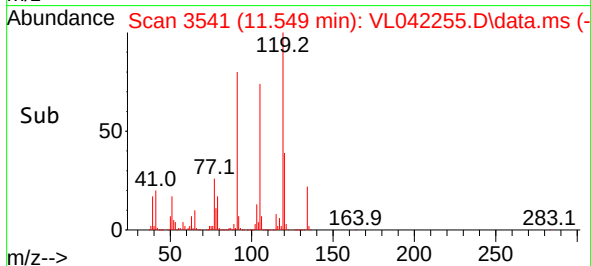
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01



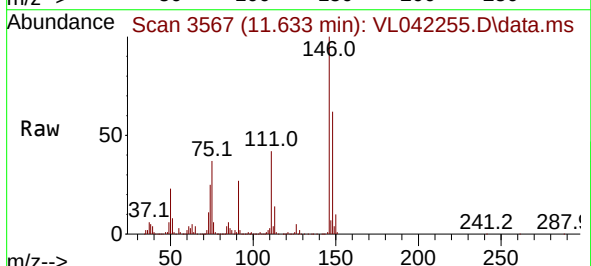
Tgt Ion: 119 Resp: 976872
Ion Ratio Lower Upper
119 100
91 81.9 66.0 99.0
134 21.5 16.7 25.1

Manual Integrations
APPROVED

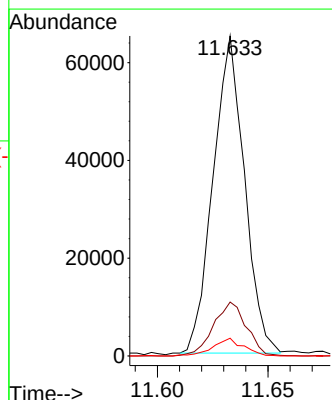
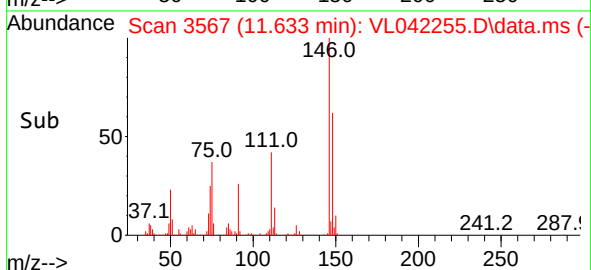
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

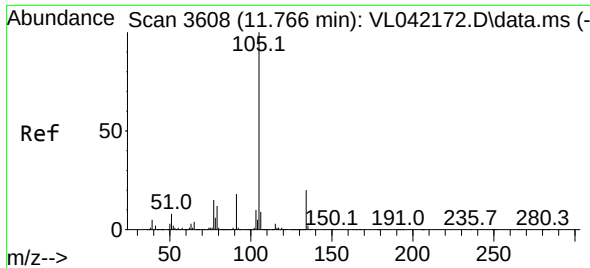


#66
Benzyl Chloride
Concen: 6.860 ppbv
RT: 11.633 min Scan# 3567
Delta R.T. 0.023 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05



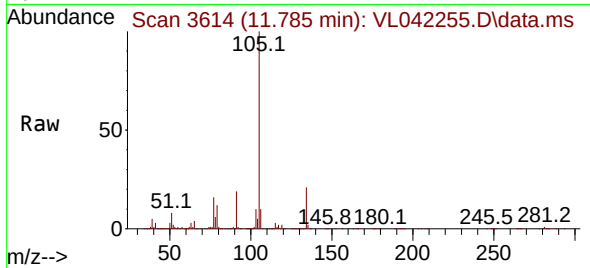
Tgt Ion: 91 Resp: 63988
Ion Ratio Lower Upper
91 100
126 17.9 13.8 20.6
128 5.5 4.5 6.7





#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

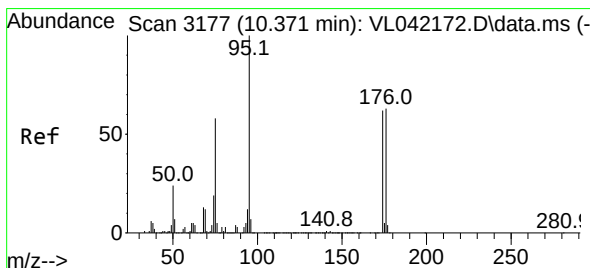
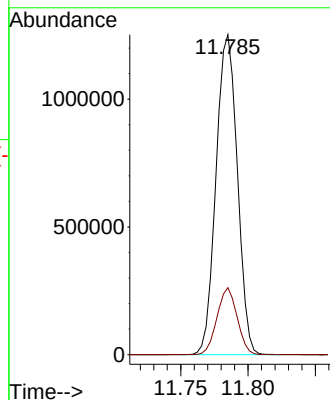
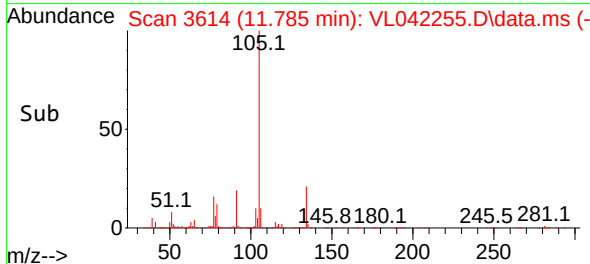
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0408ABS01



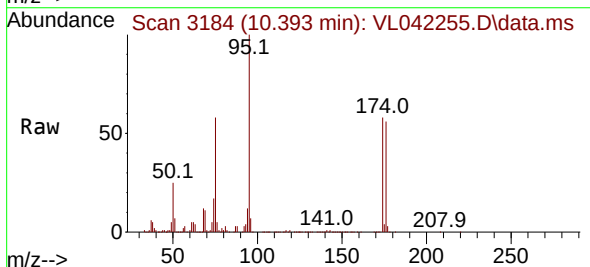
Tgt Ion: 105 Resp: 1377720
 Ion Ratio Lower Upper
 105 100
 134 19.8 15.5 23.3

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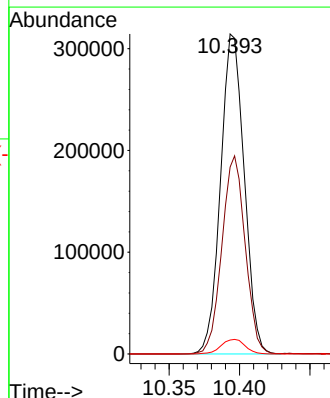
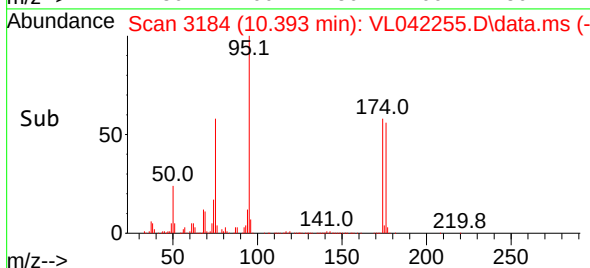
Reviewed By :Semsettin Yesilyurt 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025

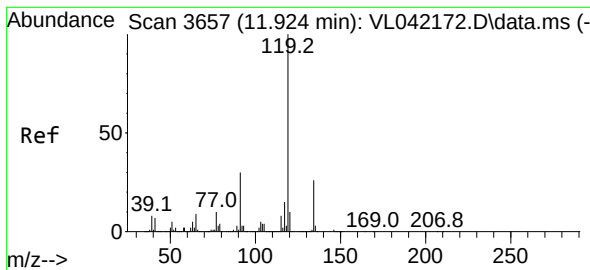


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.008 ppbv
 RT: 10.393 min Scan# 3184
 Delta R.T. 0.023 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05



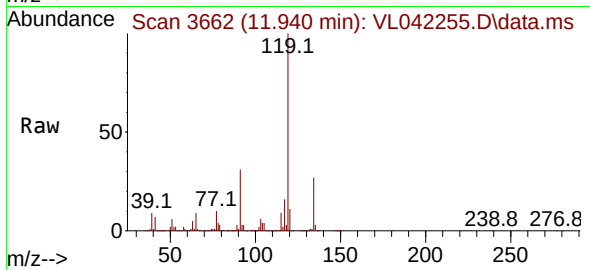
Tgt Ion: 95 Resp: 367418
 Ion Ratio Lower Upper
 95 100
 174 61.1 50.6 76.0
 175 4.7 3.8 5.6





#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

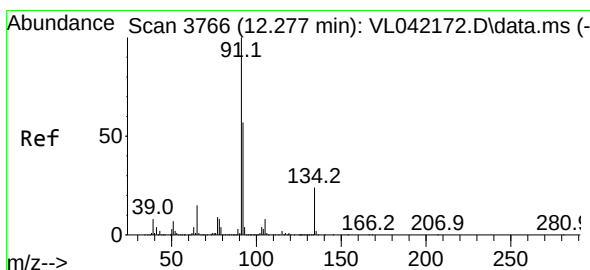
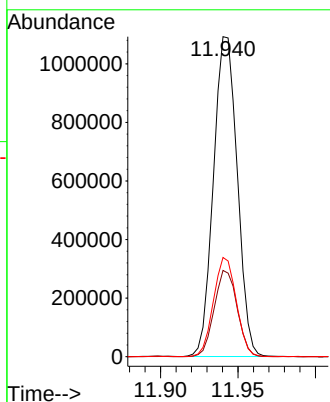
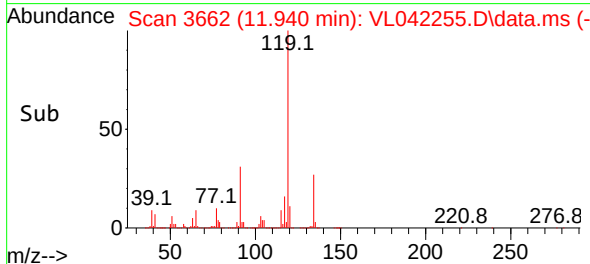
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01



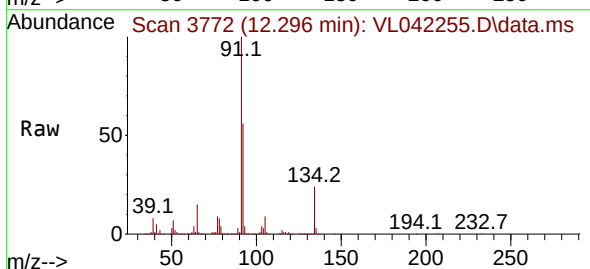
Tgt Ion: 119 Resp: 1168409
Ion Ratio Lower Upper
119 100
134 26.2 20.4 30.6
91 29.9 23.7 35.5

Manual Integrations
APPROVED

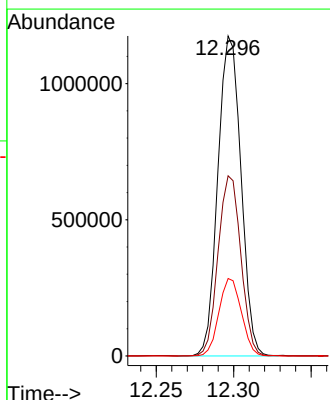
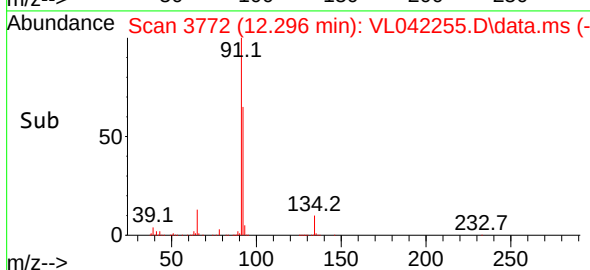
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

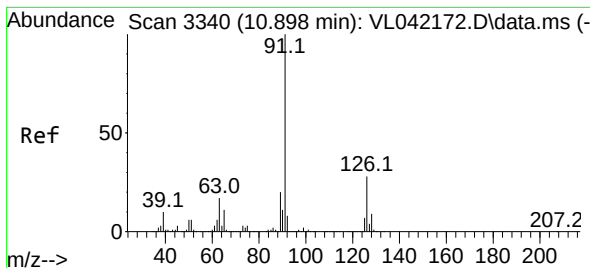


#70
n-Butylbenzene
Concen: 11.312 ppbv
RT: 12.296 min Scan# 3772
Delta R.T. 0.019 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05



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

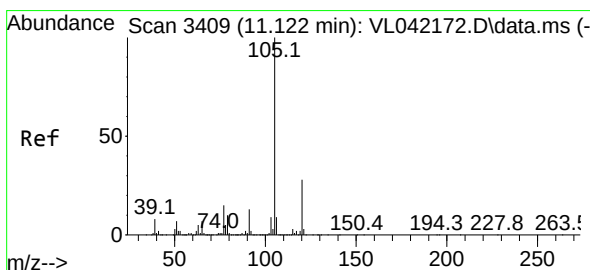
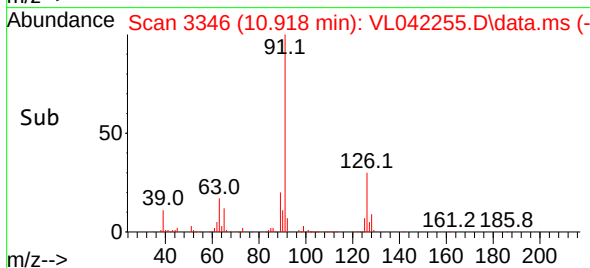
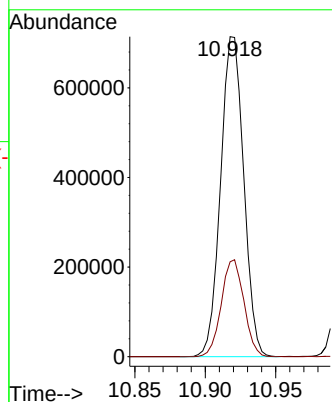
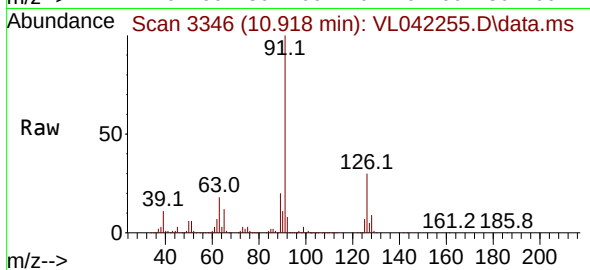
126 29.6 11.6 46.4

Manual Integrations

APPROVED

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

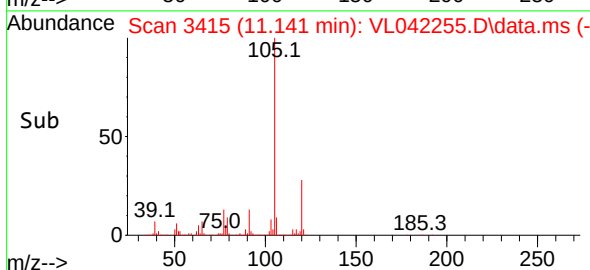
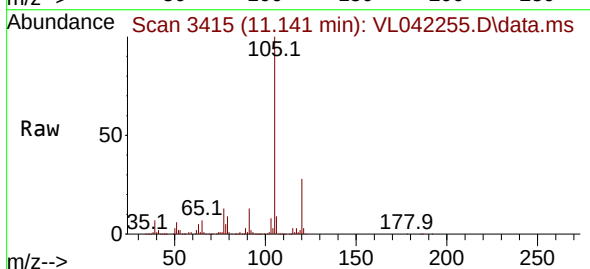
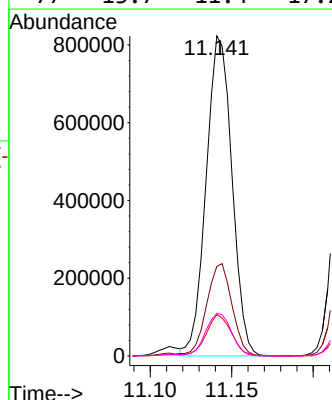
Ion Ratio Lower Upper

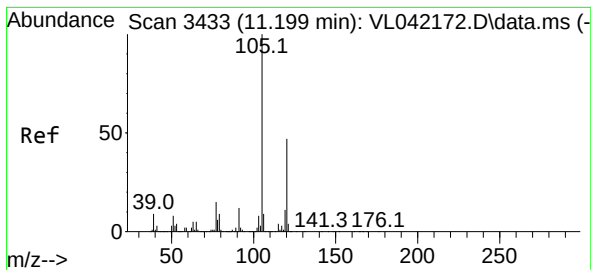
105 100

120 29.0 23.4 35.0

91 12.8 10.3 15.5

77 13.7 11.4 17.2





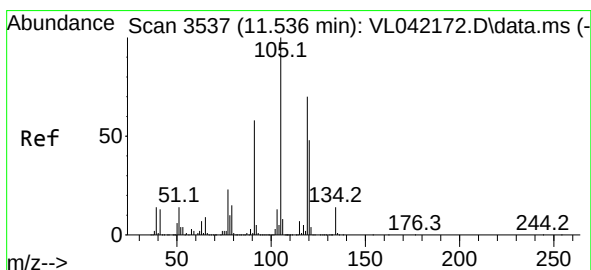
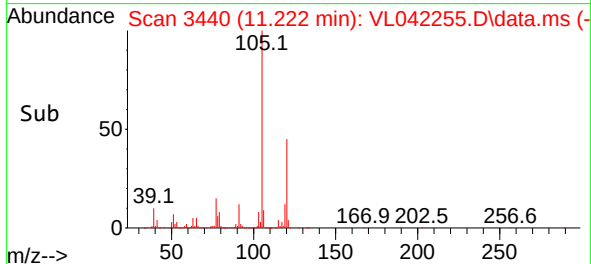
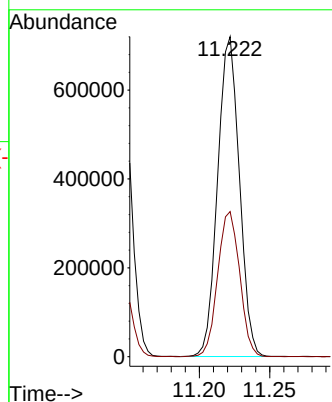
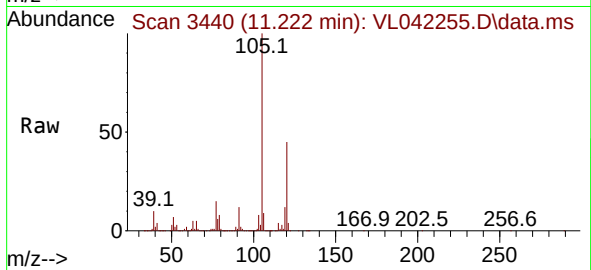
#73
1,3,5-Trimethylbenzene
Concen: 11.187 ppbv
RT: 11.222 min Scan# 3433
Delta R.T. 0.023 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01

Tgt Ion:105 Resp: 773328
Ion Ratio Lower Upper
105 100
120 45.4 37.4 56.0

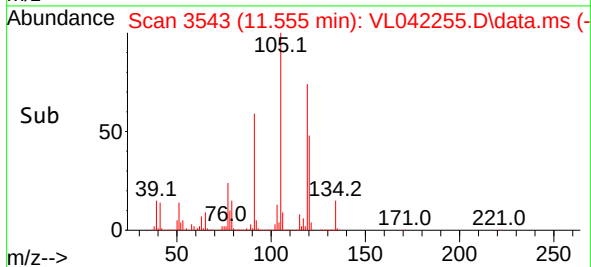
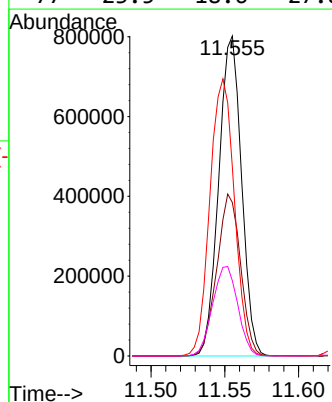
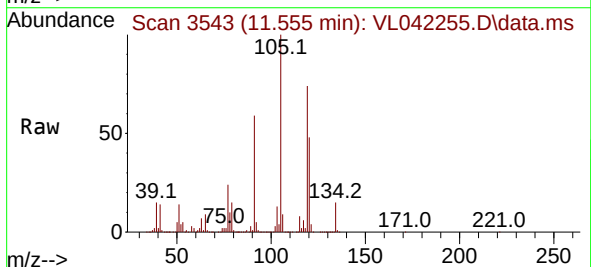
Manual Integrations
APPROVED

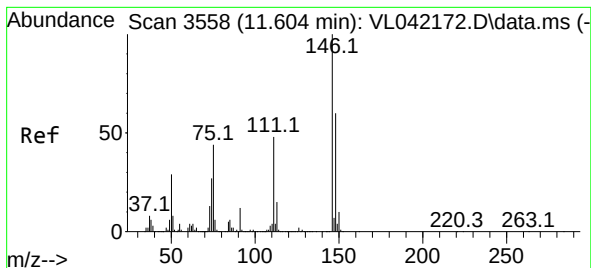
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#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 :

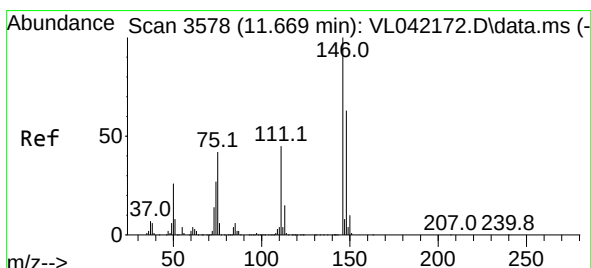
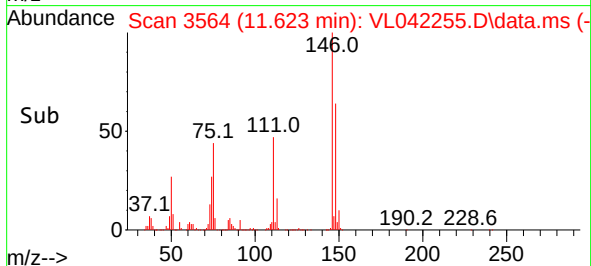
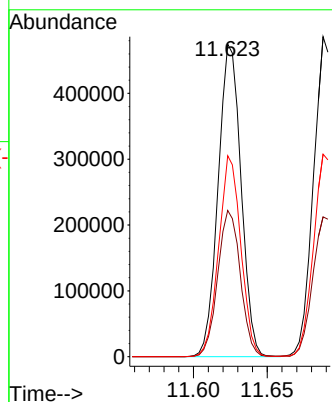
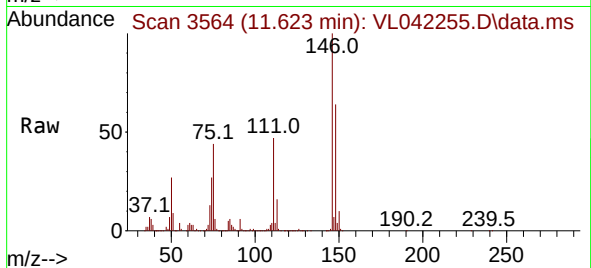
VL0408ABS01

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

APPROVED

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



#76

1,4-Dichlorobenzene

Concen: 11.619 ppbv

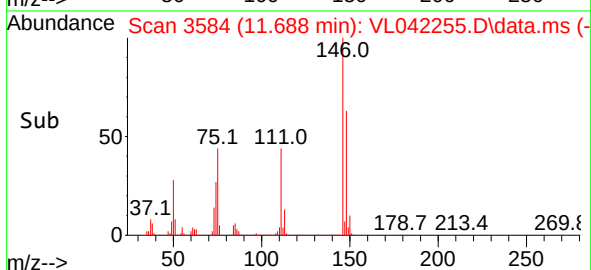
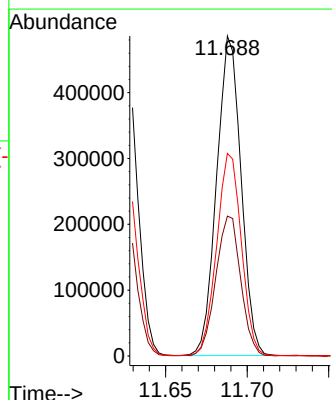
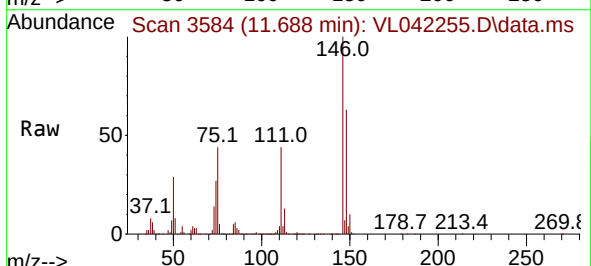
RT: 11.688 min Scan# 3584

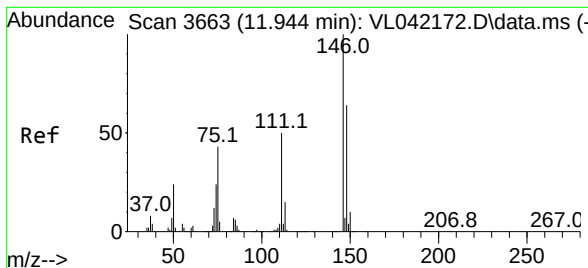
Delta R.T. 0.019 min

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 :

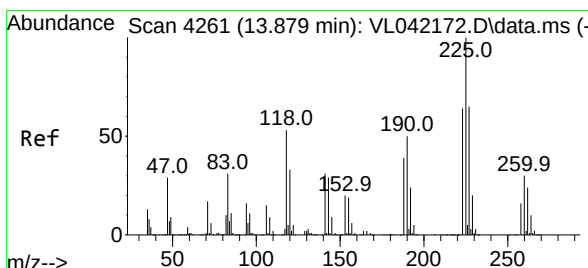
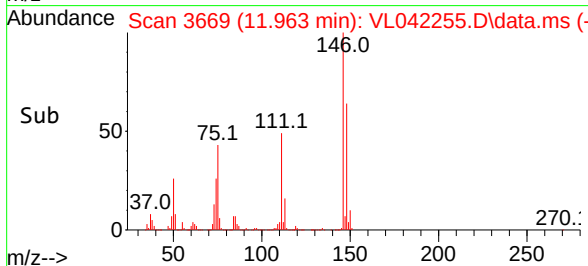
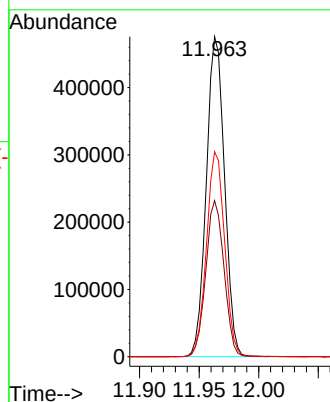
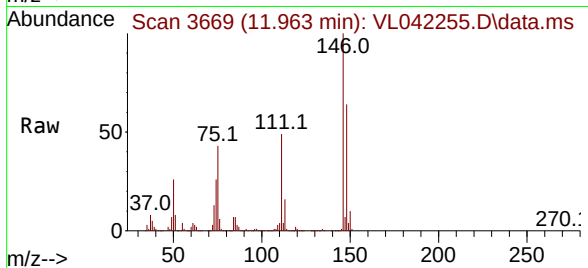
VL0408ABS01

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

APPROVED

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



#78

Hexachloro-1,3-Butadiene

Concen: 8.845 ppbv

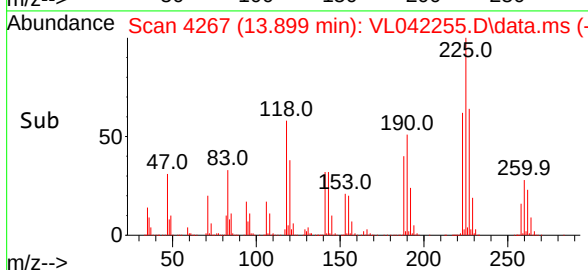
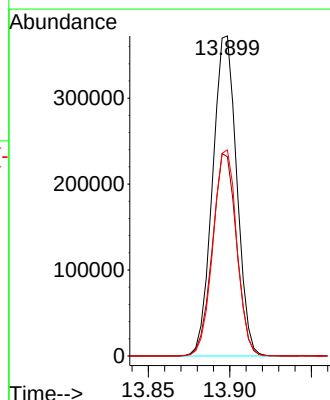
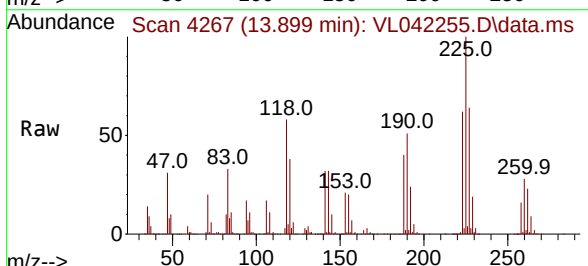
RT: 13.899 min Scan# 4267

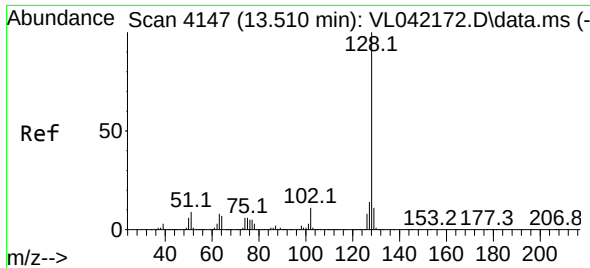
Delta R.T. 0.019 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

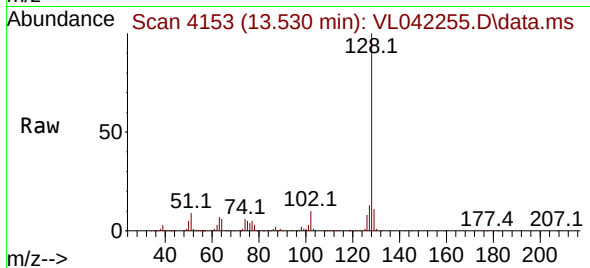
Tgt Ion:	225	Resp:	382876
Ion Ratio	Lower	Upper	
225	100		
223	63.4	50.6	76.0
227	63.4	51.2	76.8





#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

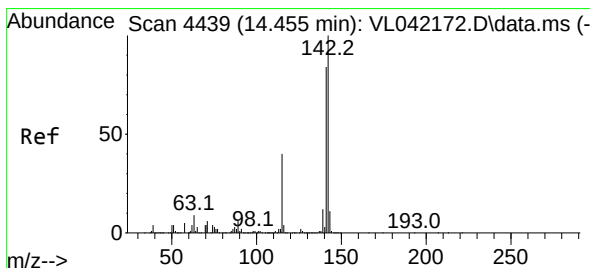
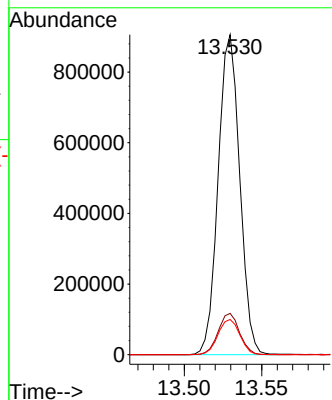
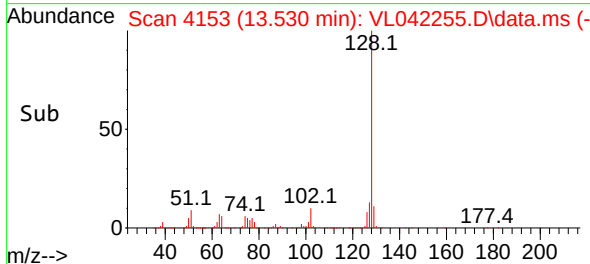
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01



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

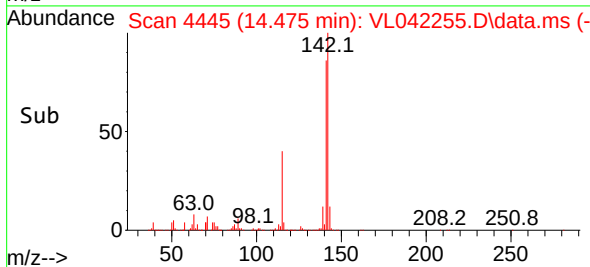
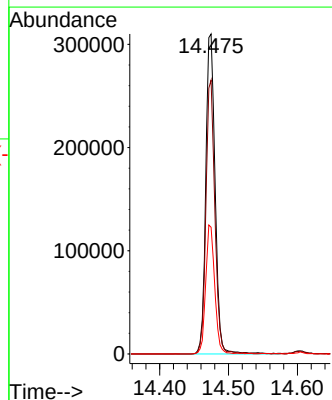
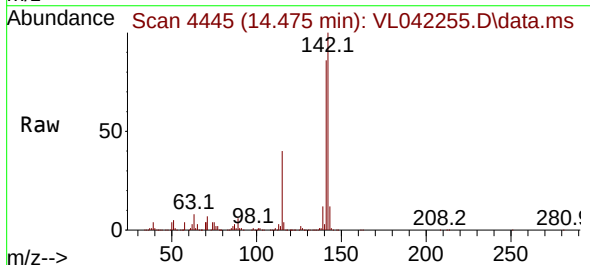
Manual Integrations
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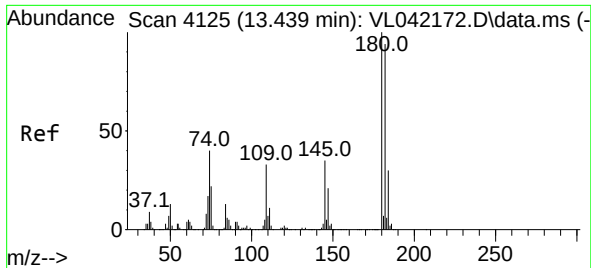
Reviewed By :Semsettin Yesilyurt 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



#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

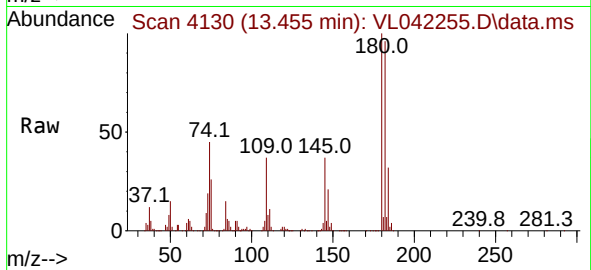
Tgt Ion:142 Resp: 291105
Ion Ratio Lower Upper
142 100
141 82.7 66.3 99.5
115 39.6 31.6 47.4





#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

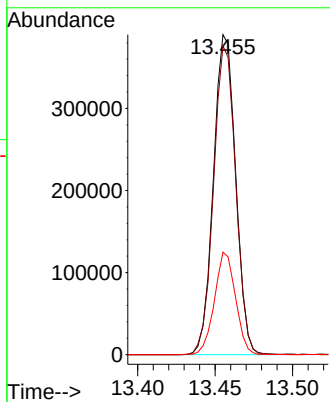
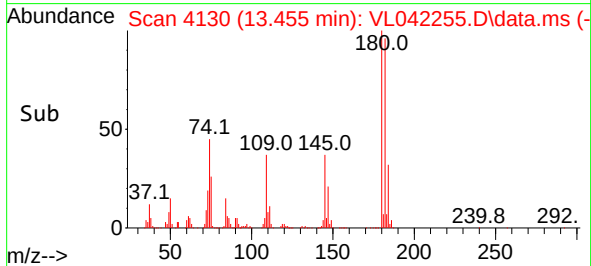
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0408ABS01



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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042276.D
 Acq On : 08 Apr 2025 23:13
 Operator : SY/MD
 Sample : Q1728-09DUP 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-1-04022025DUP

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
 Supervised By :Semsettin Yesilyurt 04/10/2025

Quant Time: Apr 09 02:01:58 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	2.790	49	158259	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	390082	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	405082	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	316771	9.522	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.200%
Target Compounds						
					Qvalue	
13) Ethanol	1.722	45	3667m	3.545	ppbv	
15) Acetone	1.839	43	47636	2.152	ppbv	94
20) Methylene Chloride	2.062	84	2303	0.279	ppbv	93
29) Chloroform	2.852	83	11762	0.362	ppbv	88
34) 2-Butanone	2.567	43	3544	0.125	ppbv	91
53) Toluene	6.936	91	18286	0.399	ppbv	95
58) Ethyl Benzene	9.357	91	36098	0.502	ppbv	100
59) m/p-Xylene	9.532	91	497808	8.664	ppbv	100
60) o-Xylene	9.966	91	414511	7.197	ppbv	96
62) Isopropylbenzene	10.545	105	32420	0.376	ppbv	99
64) n-propylbenzene	10.992	120	11693m	0.527	ppbv	
65) tert-Butylbenzene	11.539	119	89265	1.121	ppbv #	76
67) sec-Butylbenzene	11.772	105	32418	0.293	ppbv #	66
69) p-Isopropyltoluene	11.927	119	36608	0.384	ppbv	99
73) 1,3,5-Trimethylbenzene	11.205	105	436966	6.977	ppbv	97
74) 1,2,4-Trimethylbenzene	11.539	105	732665	10.154	ppbv #	66

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

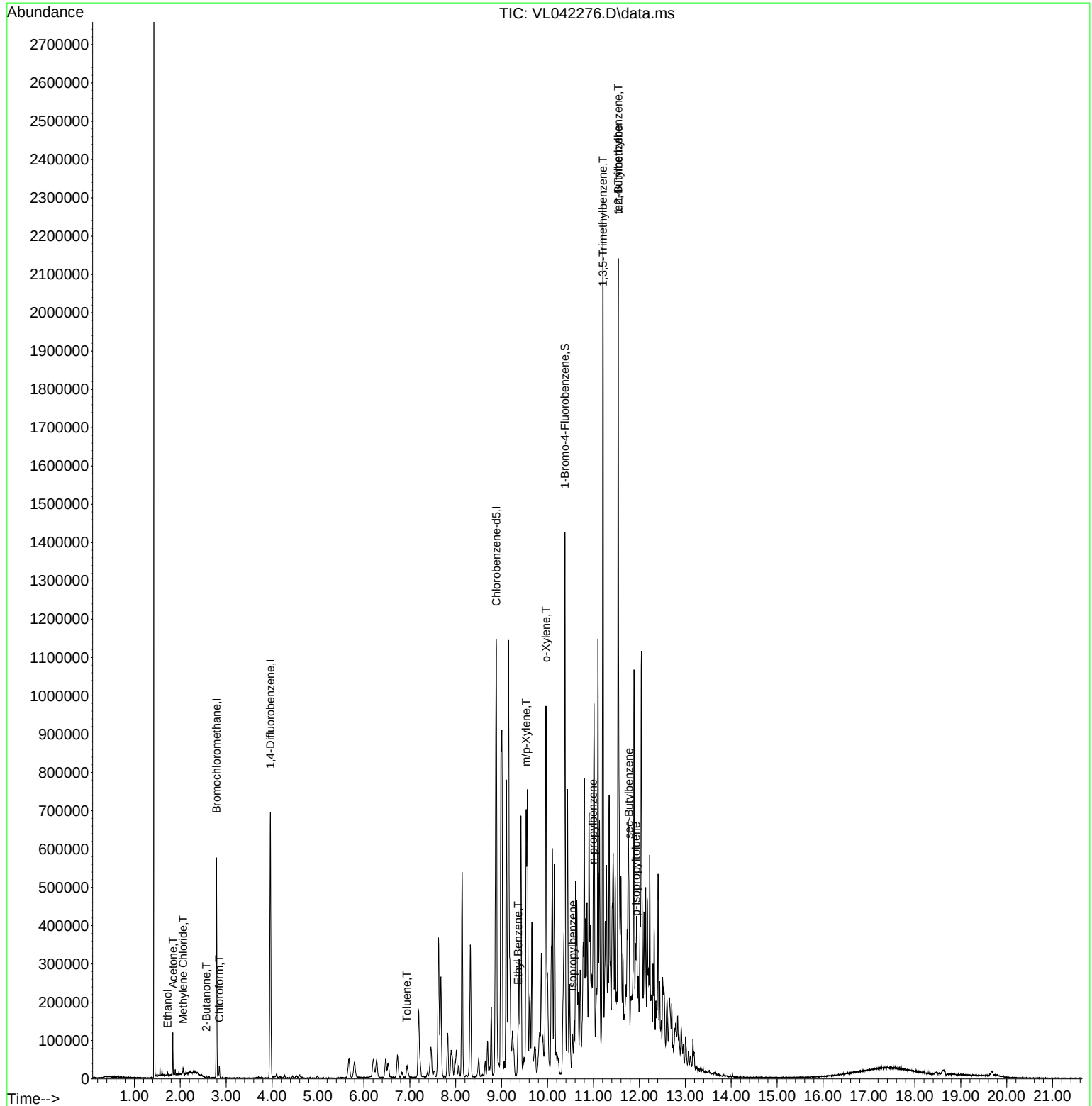
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042276.D
Acq On : 08 Apr 2025 23:13
Operator : SY/MD
Sample : Q1728-09DUP 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

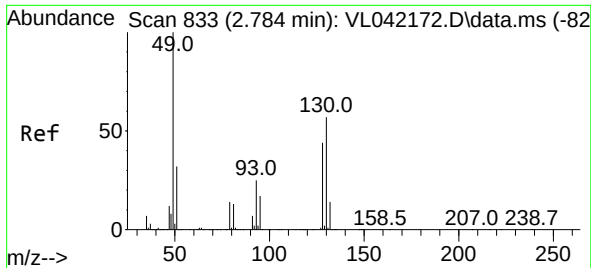
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025DUP

Quant Time: Apr 09 02:01:58 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 : Mahesh Dadoda 04/09/2025
Supervised By : Semsettin Yesilyurt 04/10/2025





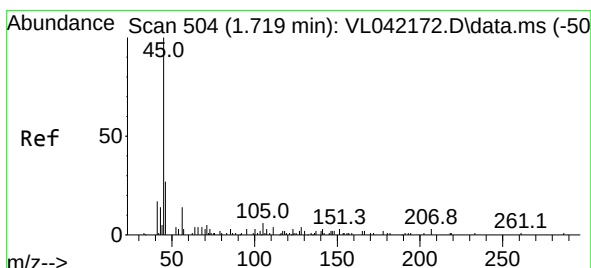
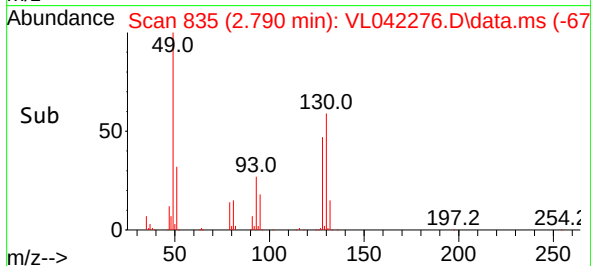
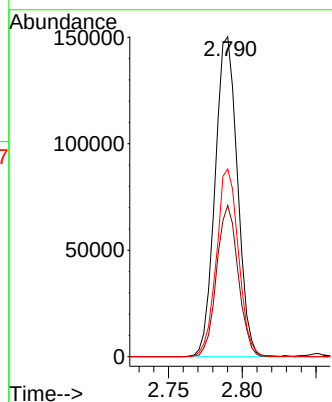
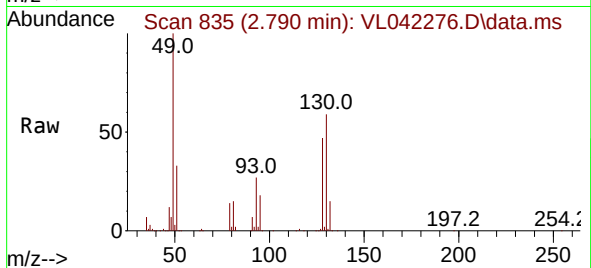
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025DUP

Tgt Ion: 49 Resp: 158259
Ion Ratio Lower Upper
49 100
128 45.7 22.9 68.5
130 57.9 28.8 86.4

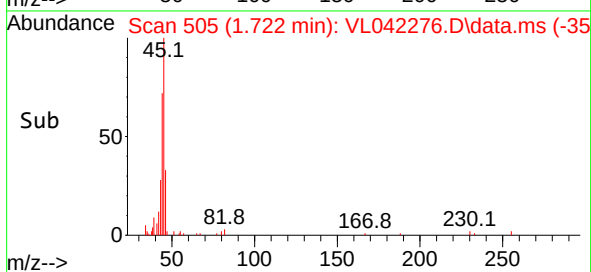
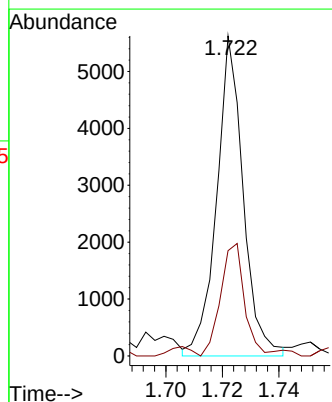
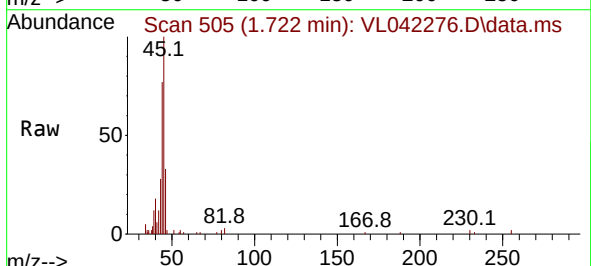
Manual Integrations
APPROVED

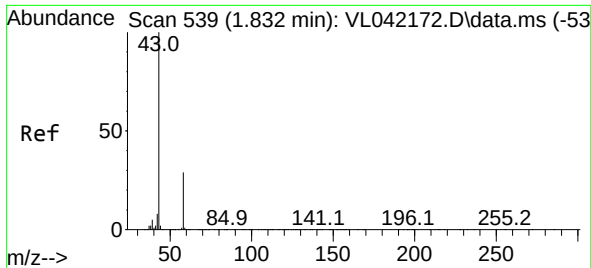
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#13
Ethanol
Concen: 3.545 ppbv m
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

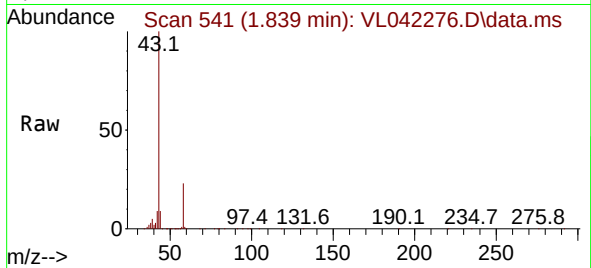
Tgt Ion: 45 Resp: 3667
Ion Ratio Lower Upper
45 100
46 0.0 20.2 80.8#





#15
Acetone
Concen: 2.152 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.006 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

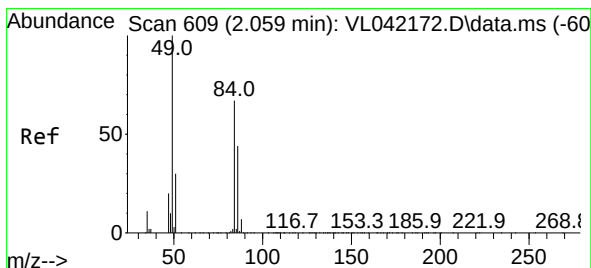
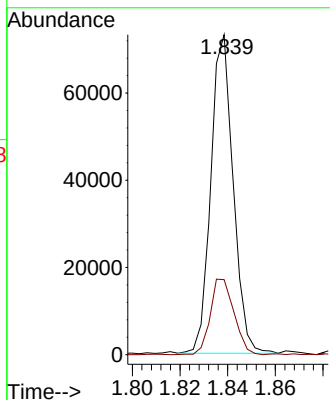
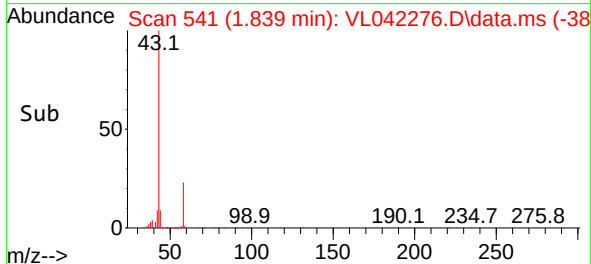
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025DUP



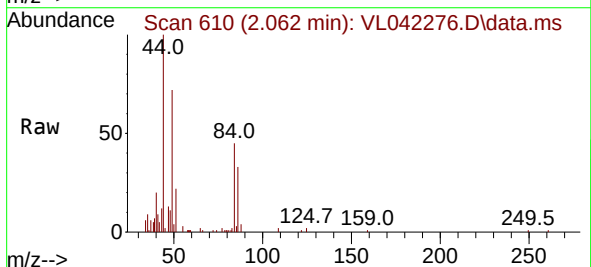
Tgt Ion: 43 Resp: 47630
Ion Ratio Lower Upper
43 100
58 25.6 23.2 34.8

Manual Integrations
APPROVED

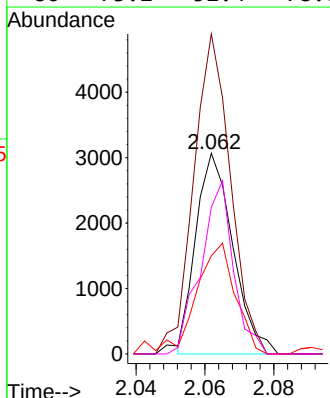
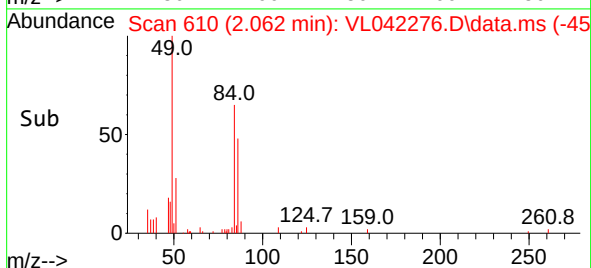
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

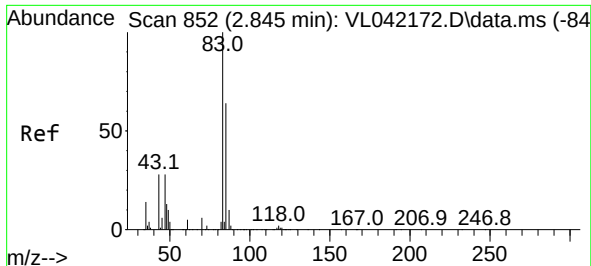


#20
Methylene Chloride
Concen: 0.279 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13



Tgt Ion: 84 Resp: 2303
Ion Ratio Lower Upper
84 100
49 159.5 120.2 180.4
51 48.9 37.4 56.0
86 73.2 52.4 78.6





#29

Chloroform

Concen: 0.362 ppbv

RT: 2.852 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042276.D

Acq: 08 Apr 2025 23:13

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-1-04022025DUP

Tgt Ion: 83 Resp: 11762

Ion Ratio Lower Upper

83 100

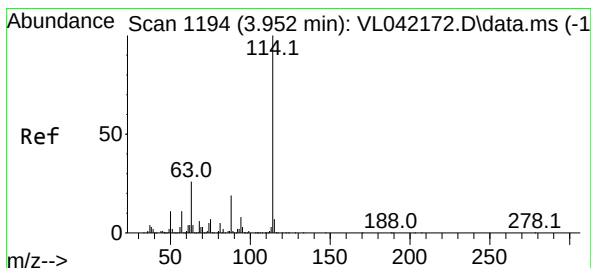
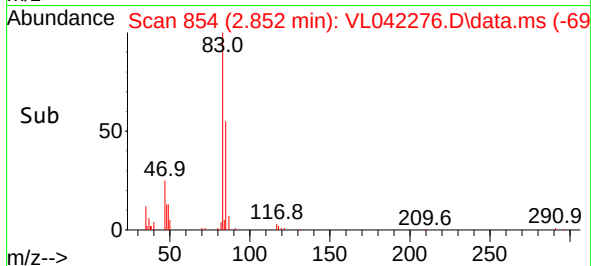
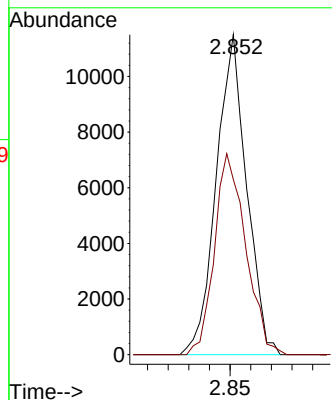
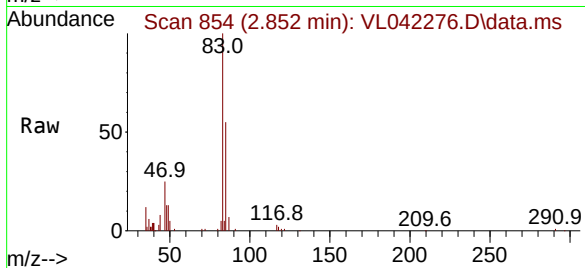
85 54.8 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025

Supervised By :Semsettin Yesilyurt 04/10/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.009 min

Lab File: VL042276.D

Acq: 08 Apr 2025 23:13

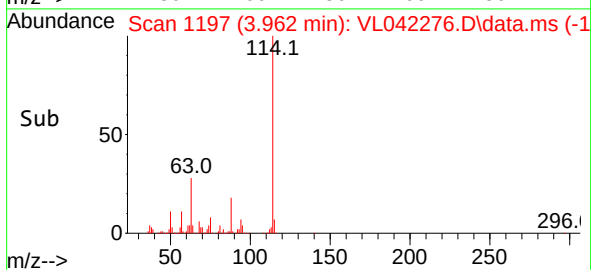
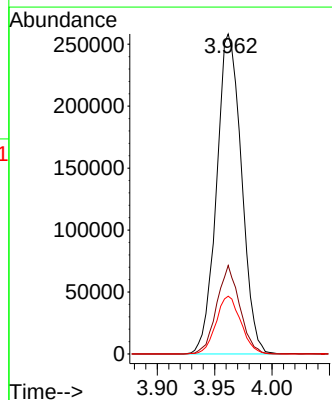
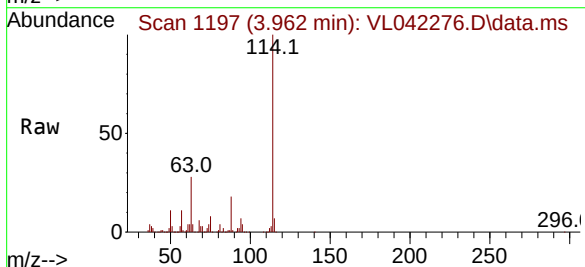
Tgt Ion:114 Resp: 390082

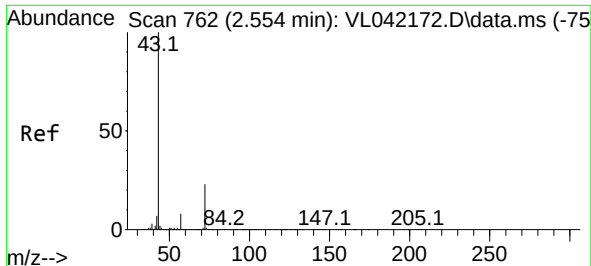
Ion Ratio Lower Upper

114 100

63 25.7 20.7 31.1

88 17.9 15.0 22.4





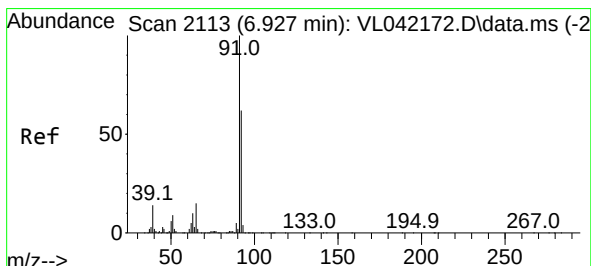
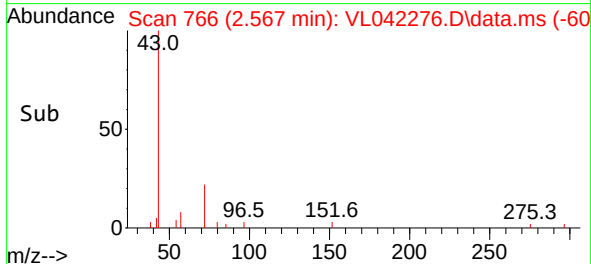
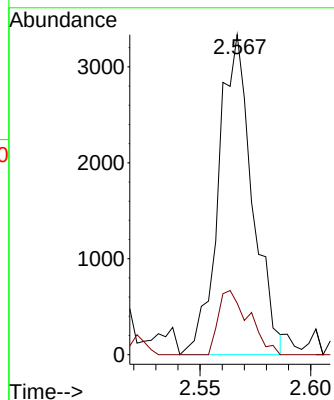
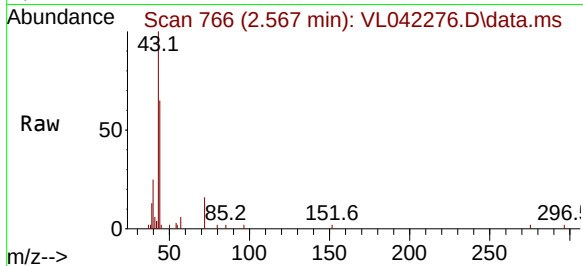
#34
2-Butanone
Concen: 0.125 ppbv
RT: 2.567 min Scan# 71
Delta R.T. 0.013 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025DUP

Tgt Ion: 43 Resp: 3544
Ion Ratio Lower Upper
43 100
72 18.3 18.2 27.2

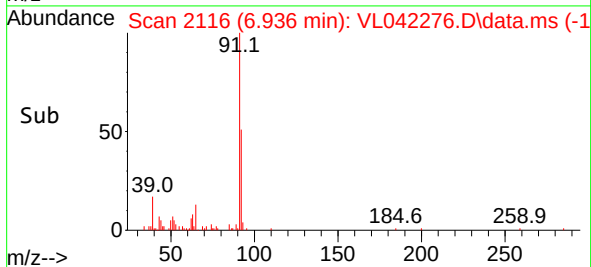
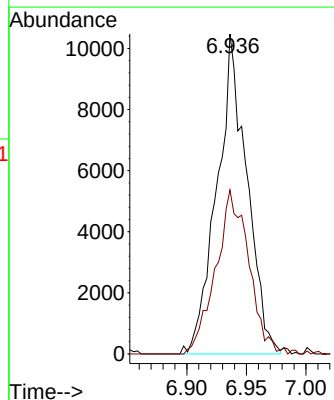
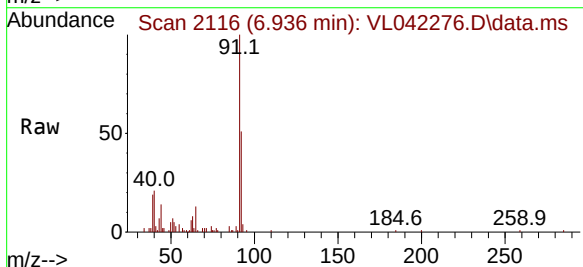
Manual Integrations
APPROVED

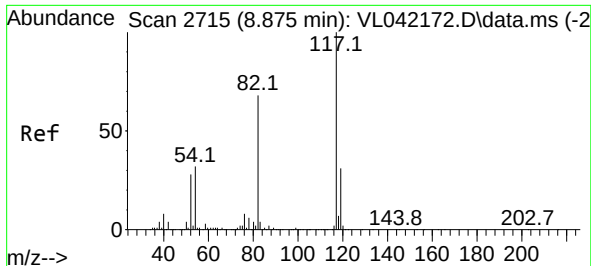
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#53
Toluene
Concen: 0.399 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. 0.009 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

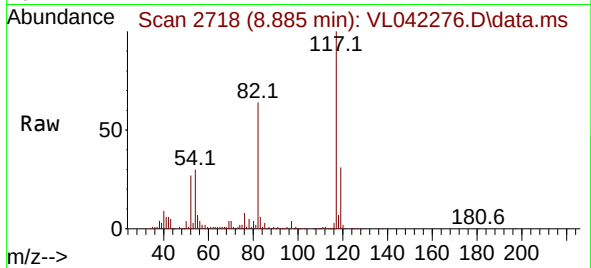
Tgt Ion: 91 Resp: 18286
Ion Ratio Lower Upper
91 100
92 56.6 48.4 72.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. 0.009 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

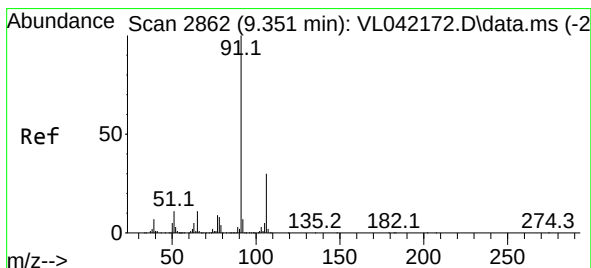
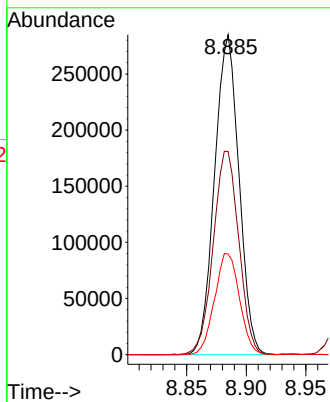
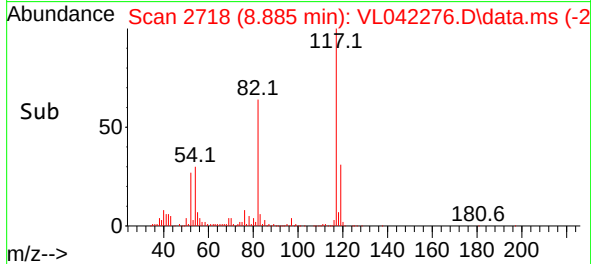
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025DUP



Tgt Ion: 117 Resp: 40508
Ion Ratio Lower Upper
117 100
82 66.7 55.8 83.6
119 32.7 25.5 38.3

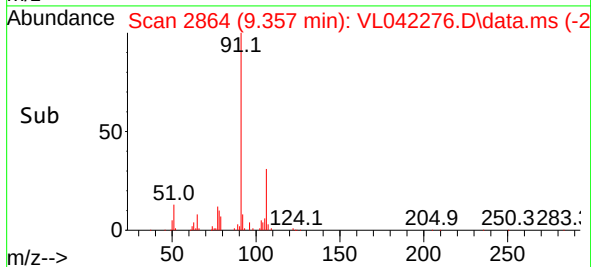
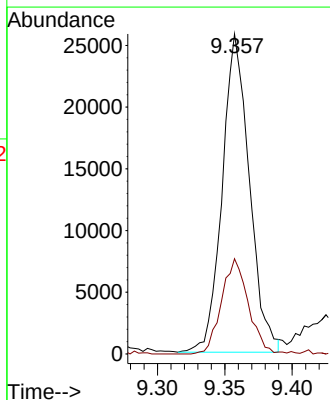
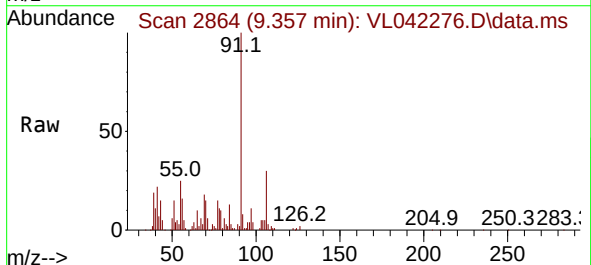
Manual Integrations
APPROVED

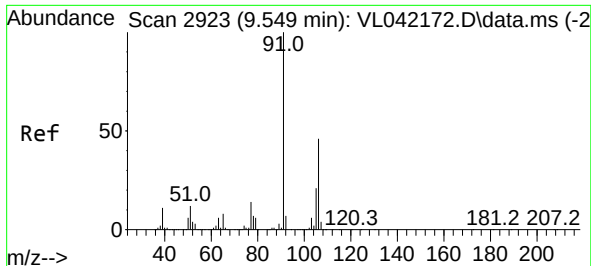
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#58
Ethyl Benzene
Concen: 0.502 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.006 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

Tgt Ion: 91 Resp: 36098
Ion Ratio Lower Upper
91 100
106 29.9 24.2 36.2





#59

m/p-Xylene

Concen: 8.664 ppbv

RT: 9.532 min Scan# 2918

Delta R.T. -0.016 min

Lab File: VL042276.D

Acq: 08 Apr 2025 23:13

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-1-04022025DUP

Tgt Ion: 91 Resp: 497808

Ion Ratio Lower Upper

91 100

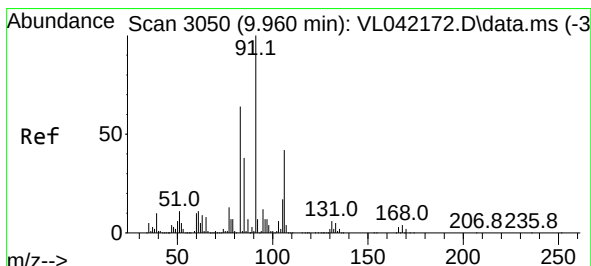
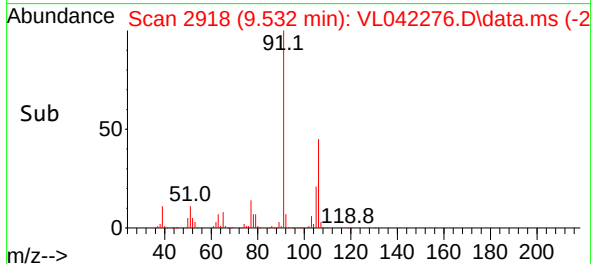
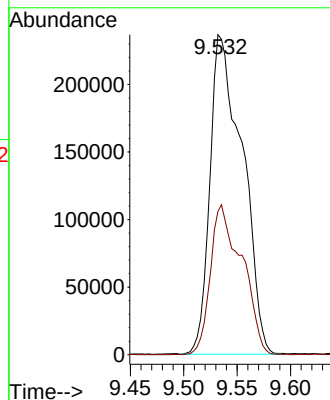
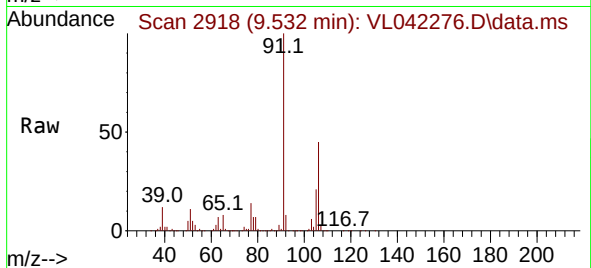
106 45.8 36.4 54.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025

Supervised By :Semsettin Yesilyurt 04/10/2025



#60

o-Xylene

Concen: 7.197 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.006 min

Lab File: VL042276.D

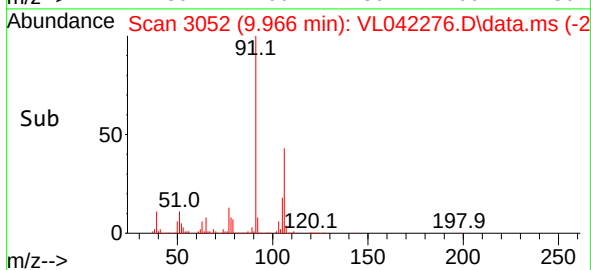
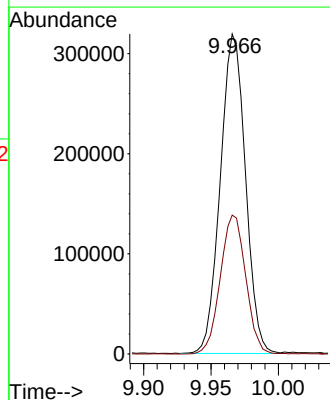
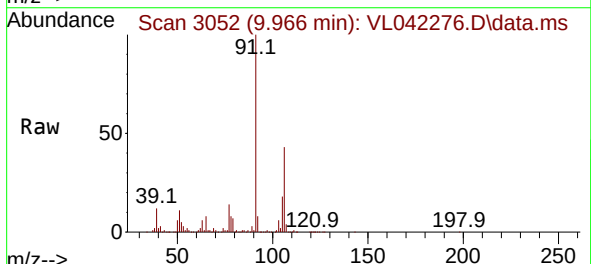
Acq: 08 Apr 2025 23:13

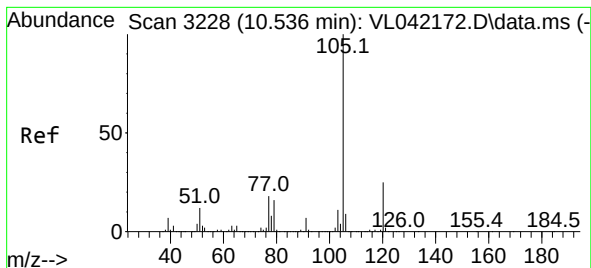
Tgt Ion: 91 Resp: 414511

Ion Ratio Lower Upper

91 100

106 44.0 20.8 62.5





#62

Isopropylbenzene

Concen: 0.376 ppbv

RT: 10.545 min Scan# 3228

Delta R.T. 0.009 min

Lab File: VL042276.D

Acq: 08 Apr 2025 23:13

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-1-04022025DUP

Tgt Ion:105 Resp: 32420

Ion Ratio Lower Upper

105 100

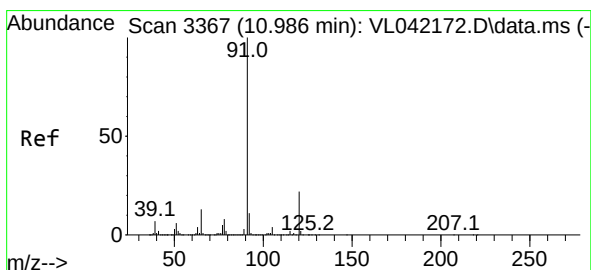
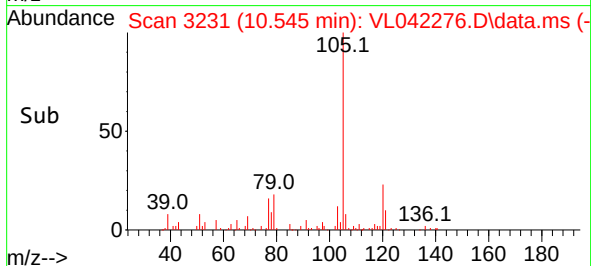
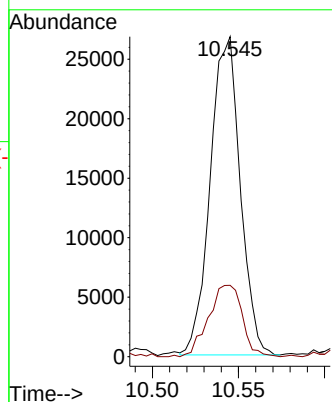
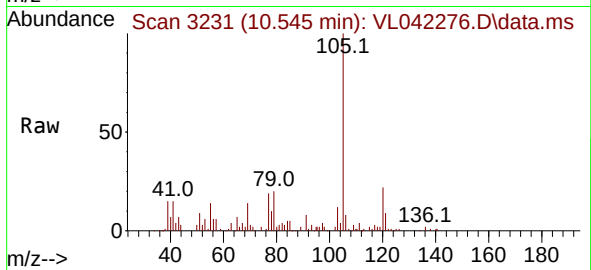
120 25.5 19.9 29.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025

Supervised By :Semsettin Yesilyurt 04/10/2025



#64

n-propylbenzene

Concen: 0.527 ppbv m

RT: 10.992 min Scan# 3369

Delta R.T. 0.006 min

Lab File: VL042276.D

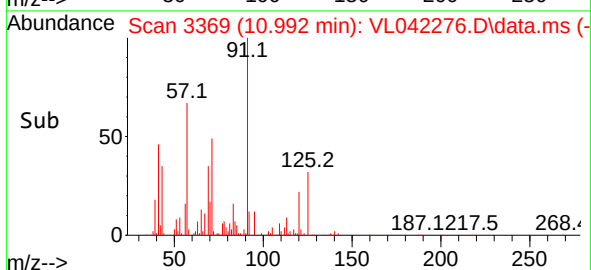
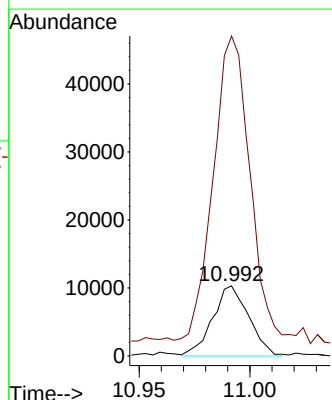
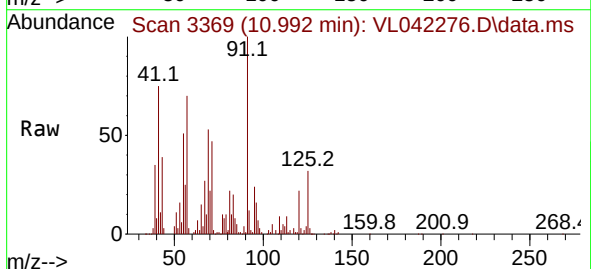
Acq: 08 Apr 2025 23:13

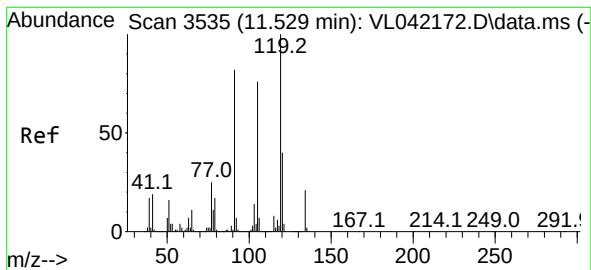
Tgt Ion:120 Resp: 11693

Ion Ratio Lower Upper

120 100

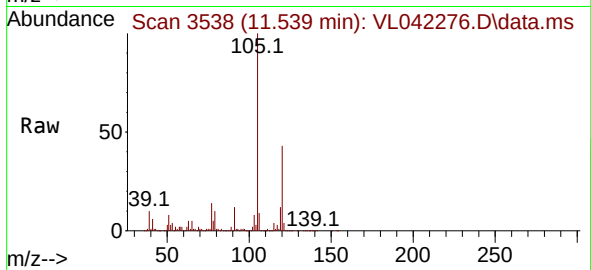
91 0.0 376.9 565.3#





#65
tert-Butylbenzene
Concen: 1.121 ppbv
RT: 11.539 min Scan# 3535
Delta R.T. 0.009 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

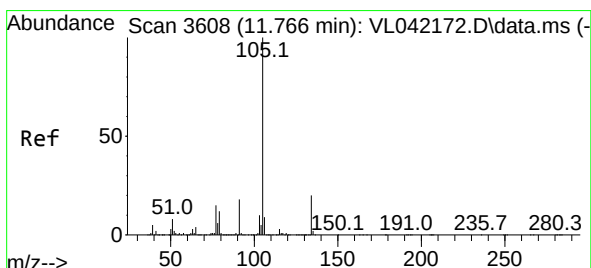
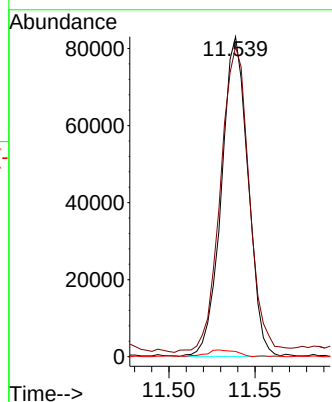
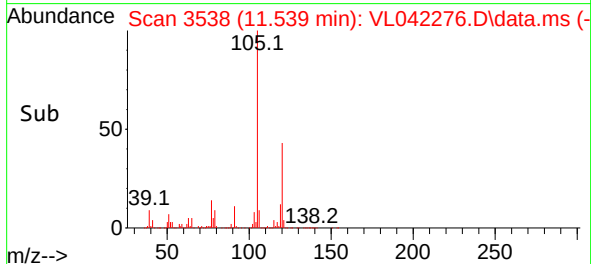
Instrument : MSVOA_L
ClientSampleId : SSSG-B2-1-04022025DUP



Tgt Ion:119 Resp: 8926
Ion Ratio Lower Upper
119 100
91 100.8 66.0 99.0
134 2.8 16.7 25.1

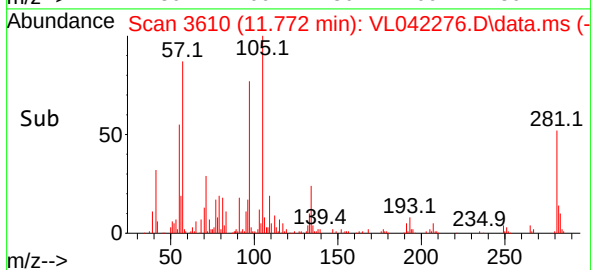
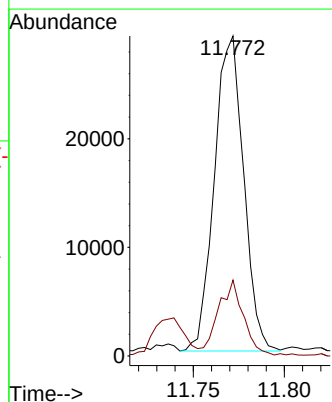
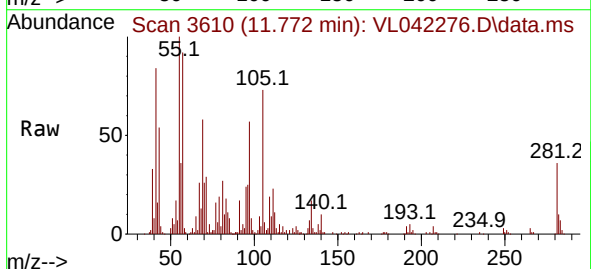
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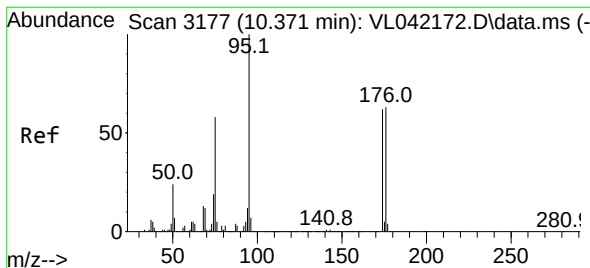
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#67
sec-Butylbenzene
Concen: 0.293 ppbv
RT: 11.772 min Scan# 3610
Delta R.T. 0.006 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

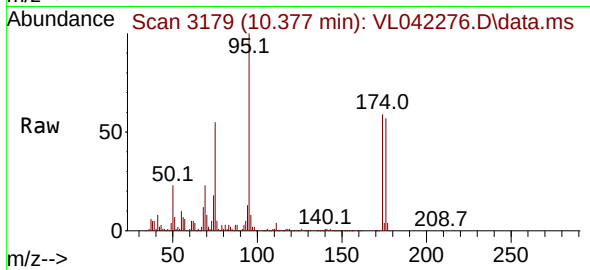
Tgt Ion:105 Resp: 32418
Ion Ratio Lower Upper
105 100
134 34.7 15.5 23.3





#68
1-Bromo-4-Fluorobenzene
Concen: 9.522 ppbv
RT: 10.377 min Scan# 3177
Delta R.T. 0.006 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

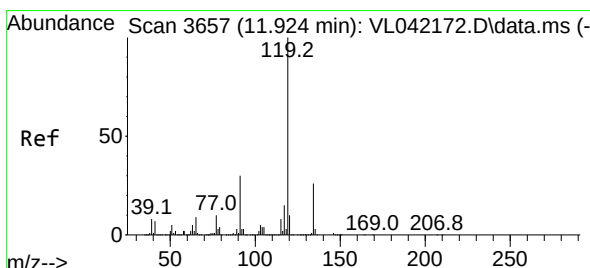
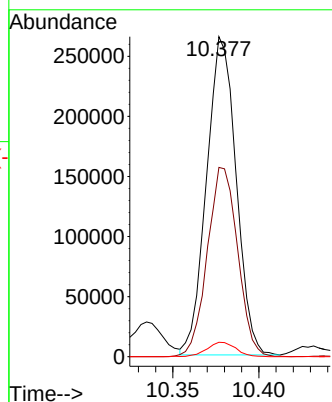
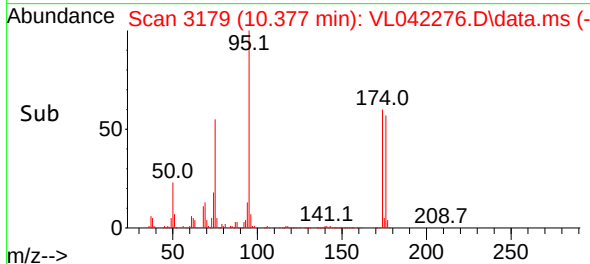
Instrument : MSVOA_L
ClientSampleId : SSSG-B2-1-04022025DUP



Tgt Ion: 95 Resp: 31677
Ion Ratio Lower Upper
95 100
174 61.0 50.6 76.0
175 4.5 3.8 5.6

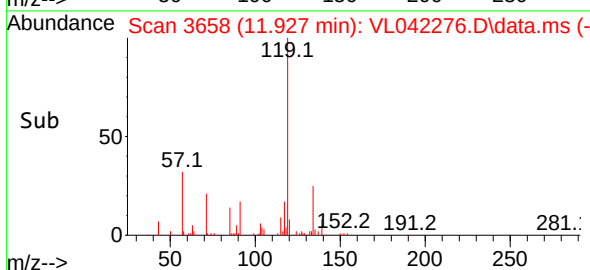
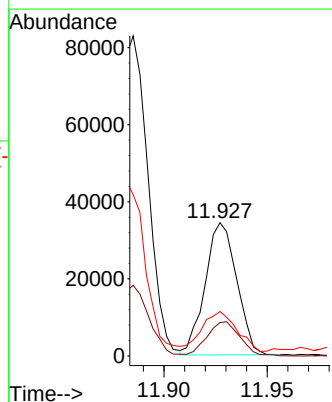
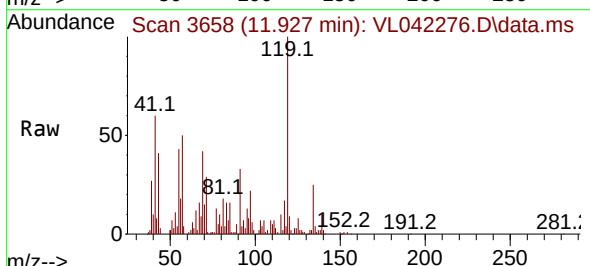
Manual Integrations
APPROVED

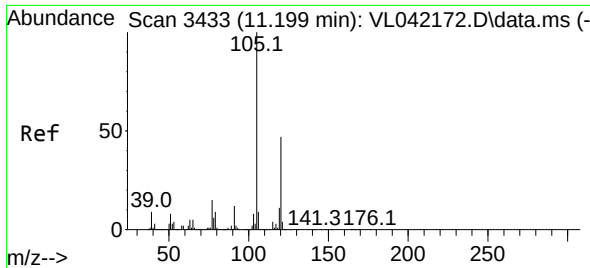
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#69
p-Isopropyltoluene
Concen: 0.384 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.003 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

Tgt Ion:119 Resp: 36608
Ion Ratio Lower Upper
119 100
134 27.0 20.4 30.6
91 29.5 23.7 35.5





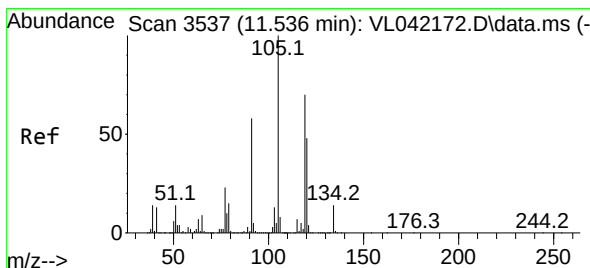
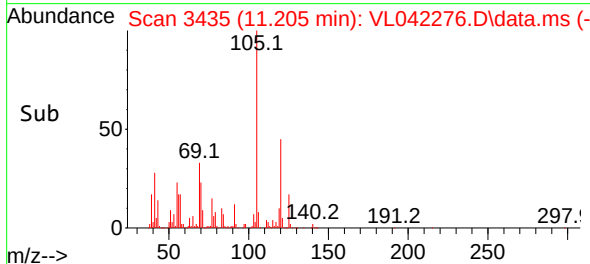
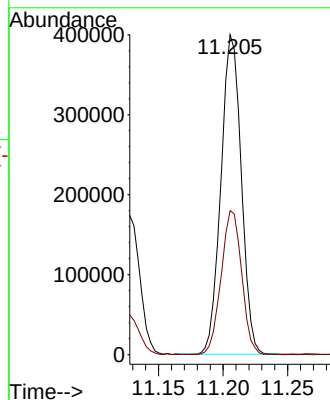
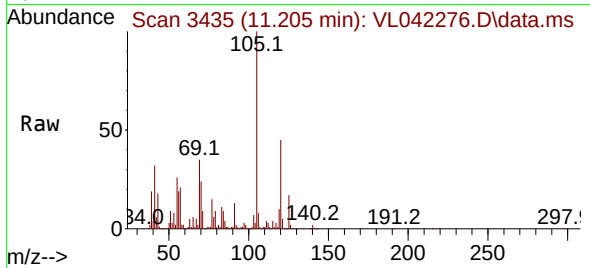
#73
1,3,5-Trimethylbenzene
Concen: 6.977 ppbv
RT: 11.205 min Scan# 3433
Delta R.T. 0.006 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

Instrument : MSVOA_L
ClientSampleId : SSSG-B2-1-04022025DUP

Tgt Ion:105 Resp: 436960
Ion Ratio Lower Upper
105 100
120 45.0 37.4 56.0

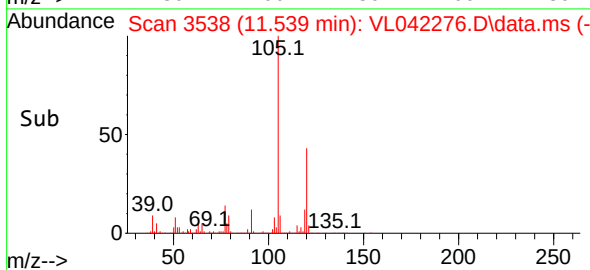
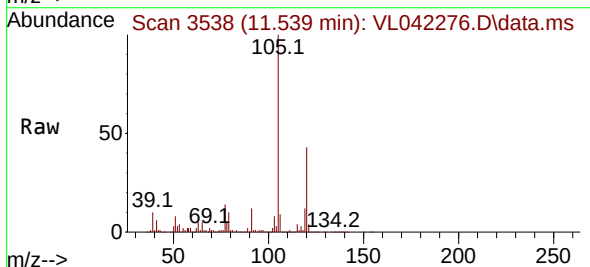
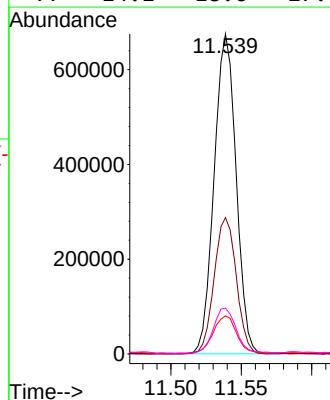
Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#74
1,2,4-Trimethylbenzene
Concen: 10.154 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

Tgt Ion:105 Resp: 732665
Ion Ratio Lower Upper
105 100
120 42.6 38.6 58.0
91 11.7 46.2 69.2#
77 14.1 18.6 27.8#



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:	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
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
Q1728-06DL	VL042261.D	Cyclohexane	MMDadoda	4/9/2025 3:24:01 PM	SAM	4/10/2025 11:29:58 AM	Peak Integrated by Software
Q1728-06DL	VL042261.D	Heptane	MMDadoda	4/9/2025 3:24:01 PM	SAM	4/10/2025 11:29:58 AM	Peak Integrated by Software
Q1728-06DL	VL042261.D	Hexane	MMDadoda	4/9/2025 3:24:01 PM	SAM	4/10/2025 11:29:58 AM	Peak Integrated by Software
Q1728-06DL	VL042261.D	m/p-Xylene	MMDadoda	4/9/2025 3:24:01 PM	SAM	4/10/2025 11:29:58 AM	Peak Integrated by Software
Q1728-08	VL042263.D	2,2,4-Trimethylpentane	MMDadoda	4/9/2025 3:24:46 PM	SAM	4/10/2025 11:30:05 AM	Peak Integrated by Software
Q1728-08	VL042263.D	Heptane	MMDadoda	4/9/2025 3:24:46 PM	SAM	4/10/2025 11:30:05 AM	Peak Integrated by Software
Q1728-08	VL042263.D	Trichloroethene	MMDadoda	4/9/2025 3:24:46 PM	SAM	4/10/2025 11:30:05 AM	Peak Integrated by Software
Q1728-09	VL042266.D	Ethanol	MMDadoda	4/9/2025 3:25:09 PM	SAM	4/10/2025 11:30:17 AM	Peak Integrated by Software
Q1728-09	VL042266.D	m/p-Xylene	MMDadoda	4/9/2025 3:25:09 PM	SAM	4/10/2025 11:30:17 AM	Peak Integrated by Software
Q1728-09	VL042266.D	Toluene	MMDadoda	4/9/2025 3:25:09 PM	SAM	4/10/2025 11:30:17 AM	Peak Integrated by Software
Q1728-01DL	VL042267.D	Ethanol	MMDadoda	4/9/2025 3:25:13 PM	SAM	4/10/2025 11:30:19 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
Q1728-01DL	VL042267.D	Propene	MMDadoda	4/9/2025 3:25:13 PM	SAM	4/10/2025 11:30:19 AM	Peak Integrated by Software
Q1728-01DL	VL042267.D	Toluene	MMDadoda	4/9/2025 3:25:13 PM	SAM	4/10/2025 11:30:19 AM	Peak Integrated by Software
Q1728-07	VL042272.D	2-Butanone	MMDadoda	4/9/2025 3:27:19 PM	SAM	4/10/2025 11:30:28 AM	Peak Integrated by Software
Q1728-07	VL042272.D	Chlorodifluoromethane	MMDadoda	4/9/2025 3:27:19 PM	SAM	4/10/2025 11:30:28 AM	Peak Integrated by Software
Q1728-07	VL042272.D	Ethanol	MMDadoda	4/9/2025 3:27:19 PM	SAM	4/10/2025 11:30:28 AM	Peak Integrated by Software
Q1728-07	VL042272.D	o-Xylene	MMDadoda	4/9/2025 3:27:19 PM	SAM	4/10/2025 11:30:28 AM	Peak Integrated by Software
Q1728-08DL	VL042273.D	Ethyl Benzene	MMDadoda	4/9/2025 3:26:27 PM	SAM	4/10/2025 11:30:30 AM	Peak Integrated by Software
Q1728-08DL	VL042273.D	m/p-Xylene	MMDadoda	4/9/2025 3:26:27 PM	SAM	4/10/2025 11:30:30 AM	Peak Integrated by Software
Q1728-11	VL042274.D	4-Methyl-2-Pentanone	MMDadoda	4/9/2025 3:26:32 PM	SAM	4/10/2025 11:30:33 AM	Peak Integrated by Software
Q1728-11	VL042274.D	Carbon Tetrachloride	MMDadoda	4/9/2025 3:26:32 PM	SAM	4/10/2025 11:30:33 AM	Peak Integrated by Software
Q1728-11	VL042274.D	Chlorodifluoromethane	MMDadoda	4/9/2025 3:26:32 PM	SAM	4/10/2025 11:30:33 AM	Peak Integrated by Software
Q1728-11	VL042274.D	Styrene	MMDadoda	4/9/2025 3:26:32 PM	SAM	4/10/2025 11:30:33 AM	Peak Integrated by Software
Q1728-11	VL042274.D	Tetrachloroethene	MMDadoda	4/9/2025 3:26:32 PM	SAM	4/10/2025 11:30:33 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
Q1728-11	VL042274.D	Trichloroethene	MMDadoda	4/9/2025 3:26:32 PM	SAM	4/10/2025 11:30:33 AM	Peak Integrated by Software
Q1728-11	VL042274.D	Trichlorofluoromethane	MMDadoda	4/9/2025 3:26:32 PM	SAM	4/10/2025 11:30:33 AM	Peak Integrated by Software
Q1728-12	VL042275.D	Benzene	MMDadoda	4/9/2025 3:26:36 PM	SAM	4/10/2025 11:30:34 AM	Peak Integrated by Software
Q1728-12	VL042275.D	Carbon Tetrachloride	MMDadoda	4/9/2025 3:26:36 PM	SAM	4/10/2025 11:30:34 AM	Peak Integrated by Software
Q1728-12	VL042275.D	Chlorodifluoromethane	MMDadoda	4/9/2025 3:26:36 PM	SAM	4/10/2025 11:30:34 AM	Peak Integrated by Software
Q1728-12	VL042275.D	m/p-Xylene	MMDadoda	4/9/2025 3:26:36 PM	SAM	4/10/2025 11:30:34 AM	Peak Integrated by Software
Q1728-12	VL042275.D	Tetrachloroethene	MMDadoda	4/9/2025 3:26:36 PM	SAM	4/10/2025 11:30:34 AM	Peak Integrated by Software
Q1728-12	VL042275.D	Toluene	MMDadoda	4/9/2025 3:26:36 PM	SAM	4/10/2025 11:30:34 AM	Peak Integrated by Software
Q1728-12	VL042275.D	Trichloroethene	MMDadoda	4/9/2025 3:26:36 PM	SAM	4/10/2025 11:30:34 AM	Peak Integrated by Software
Q1728-09DUP	VL042276.D	Ethanol	MMDadoda	4/9/2025 3:48:23 PM	SAM	4/10/2025 11:30:37 AM	Peak Integrated by Software
Q1728-09DUP	VL042276.D	n-propylbenzene	MMDadoda	4/9/2025 3:48:23 PM	SAM	4/10/2025 11:30:37 AM	Peak Integrated by Software
Q1728-09DUP	VL042276.D	Tetrachloroethene	MMDadoda	4/9/2025 3:48:23 PM	SAM	4/10/2025 11:30:37 AM	Peak Integrated by Software
Q1728-01	VL042277.D	Carbon Tetrachloride	MMDadoda	4/9/2025 3:26:45 PM	SAM	4/10/2025 11:30:39 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
Q1728-01	VL042277.D	Chlorodifluoromethane	MMDadoda	4/9/2025 3:26:45 PM	SAM	4/10/2025 11:30:39 AM	Peak Integrated by Software
Q1728-01	VL042277.D	Heptane	MMDadoda	4/9/2025 3:26:45 PM	SAM	4/10/2025 11:30:39 AM	Peak Integrated by Software
Q1728-01	VL042277.D	Propene	MMDadoda	4/9/2025 3:26:45 PM	SAM	4/10/2025 11:30:39 AM	Peak Integrated by Software
Q1728-01	VL042277.D	Tetrachloroethene	MMDadoda	4/9/2025 3:26:45 PM	SAM	4/10/2025 11:30:39 AM	Peak Integrated by Software
Q1728-02	VL042278.D	Carbon Tetrachloride	MMDadoda	4/9/2025 3:26:50 PM	SAM	4/10/2025 11:30:41 AM	Peak Integrated by Software
Q1728-02	VL042278.D	Chlorodifluoromethane	MMDadoda	4/9/2025 3:26:50 PM	SAM	4/10/2025 11:30:41 AM	Peak Integrated by Software
Q1728-02	VL042278.D	m/p-Xylene	MMDadoda	4/9/2025 3:26:50 PM	SAM	4/10/2025 11:30:41 AM	Peak Integrated by Software
Q1728-02	VL042278.D	Trichloroethene	MMDadoda	4/9/2025 3:26:50 PM	SAM	4/10/2025 11:30:41 AM	Peak Integrated by Software
Q1728-04	VL042279.D	4-Methyl-2-Pentanone	MMDadoda	4/9/2025 3:26:54 PM	SAM	4/10/2025 11:31:16 AM	Peak Integrated by Software
Q1728-04	VL042279.D	Tetrachloroethene	MMDadoda	4/9/2025 3:26:54 PM	SAM	4/10/2025 11:31:16 AM	Peak Integrated by Software
Q1728-04DL	VL042280.D	Benzene	MMDadoda	4/9/2025 3:26:58 PM	SAM	4/10/2025 11:31:17 AM	Peak Integrated by Software
Q1728-04DL	VL042280.D	Toluene	MMDadoda	4/9/2025 3:26:58 PM	SAM	4/10/2025 11:31:17 AM	Peak Integrated by Software
Q1728-05	VL042281.D	4-Methyl-2-Pentanone	MMDadoda	4/9/2025 3:27:02 PM	SAM	4/10/2025 11:31:41 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
Q1728-05	VL042281.D	Trichloroethene	MMDadod a	4/9/2025 3:27:02 PM	SAM	4/10/2025 11:31:41 AM	Peak Integrated by Software
Q1728-10	VL042283.D	Carbon Tetrachloride	MMDadod a	4/9/2025 3:27:06 PM	SAM	4/10/2025 11:31:47 AM	Peak Integrated by Software
Q1728-10	VL042283.D	Chlorodifluoromethane	MMDadod a	4/9/2025 3:27:06 PM	SAM	4/10/2025 11:31:47 AM	Peak Integrated by Software
Q1728-10	VL042283.D	Propene	MMDadod a	4/9/2025 3:27:06 PM	SAM	4/10/2025 11:31:47 AM	Peak Integrated by Software
Q1728-10	VL042283.D	Styrene	MMDadod a	4/9/2025 3:27:06 PM	SAM	4/10/2025 11:31:47 AM	Peak Integrated by Software
Q1728-10	VL042283.D	Trichloroethene	MMDadod a	4/9/2025 3:27:06 PM	SAM	4/10/2025 11:31:47 AM	Peak Integrated by Software
Q1728-10	VL042283.D	Trichlorofluoromethane	MMDadod a	4/9/2025 3:27:06 PM	SAM	4/10/2025 11:31:47 AM	Peak Integrated by Software
Q1728-03	VL042284.D	Cyclohexane	MMDadod a	4/9/2025 3:27:10 PM	SAM	4/10/2025 11:31:49 AM	Peak Integrated by Software
Q1728-03	VL042284.D	Ethanol	MMDadod a	4/9/2025 3:27:10 PM	SAM	4/10/2025 11:31:49 AM	Peak Integrated by Software
Q1728-03	VL042284.D	Heptane	MMDadod a	4/9/2025 3:27:10 PM	SAM	4/10/2025 11:31:49 AM	Peak Integrated by Software
Q1728-03	VL042284.D	m/p-Xylene	MMDadod a	4/9/2025 3:27:10 PM	SAM	4/10/2025 11:31:49 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 # 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	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			

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 # 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-B14-4-04012025	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-B14-4-04012025	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 : Q1728

Test : TO-15

Prepbatch ID :

Sequence ID/Qc Batch ID: 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: 

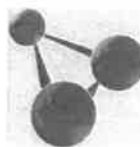
Signature: 

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	

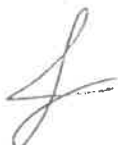
NOTES: Blend Tolerance: +/- 20 %
Analytical Tolerance: +/- 10 %
Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.
Caution: Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature: 

Signature:

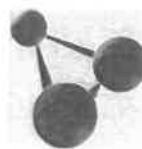
Date: 07/16/2024



*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

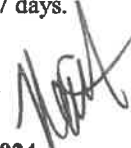
Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	040424-003	240404-10	Gravimetric

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	

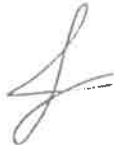
NOTES: Blend Tolerance: +/- 20 %
Analytical Tolerance: +/- 10 %
Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.
Caution: Do 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

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

Order ID : Q1728

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
04/07/2025	B2503008	Q1728-08	-9.2	10749	1.4 L	10572		C2503005	VL042092.D Seq :VL030325 TUNE : VL042074.D ICAL : VL042046.D CCAL : VL042075.D MB : VL042076.D
04/07/2025	B2503008	Q1728-09	-10.4	10722	1.4 L	10698		C2503004	VL042053.D Seq :vl022625 TUNE : VL042049.D ICAL : VL042046.D CCAL : VL042050.D MB : VL042051.D
04/07/2025	B2503008	Q1728-04	-7.1	10663	1.4 L	10618		C2503005	VL042092.D Seq :VL030325 TUNE : VL042074.D ICAL : VL042046.D CCAL : VL042075.D MB : VL042076.D
04/07/2025	B2503008	Q1728-05	-8.4	10662	1.4 L	10244		C2503004	VL042053.D Seq :vl022625 TUNE : VL042049.D ICAL : VL042046.D CCAL : VL042050.D MB : VL042051.D
04/07/2025	B2503008	Q1728-07	-10.0	10467	1.4 L	10512		C2503004	VL042053.D Seq :vl022625 TUNE : VL042049.D ICAL : VL042046.D CCAL : VL042050.D MB : VL042051.D
04/07/2025	B2503008	Q1728-11	-10.4	10466	1.4 L	10230		C2503005	VL042092.D Seq :VL030325 TUNE : VL042074.D ICAL : VL042046.D CCAL : VL042075.D MB : VL042076.D

Process Report

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

Order ID : Q1728

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
04/07/2025	B2503008	Q1728-12	-8.0	10462	1.4 L	10254		C2503005	VL042092.D Seq :VL030325 TUNE : VL042074.D ICAL : VL042046.D CCAL : VL042075.D MB : VL042076.D
04/07/2025	B2503008	Q1728-03	-8.4	10458	1.4 L	10554		C2503005	VL042092.D Seq :VL030325 TUNE : VL042074.D ICAL : VL042046.D CCAL : VL042075.D MB : VL042076.D
04/07/2025	B2503008	Q1728-02	-7.1	10149	1.4 L	10487		C2503005	VL042092.D Seq :VL030325 TUNE : VL042074.D ICAL : VL042046.D CCAL : VL042075.D MB : VL042076.D
04/07/2025	B2503008	Q1728-01	-9.6	10130	1.4 L	10571		C2503004	VL042053.D Seq :vl022625 TUNE : VL042049.D ICAL : VL042046.D CCAL : VL042050.D MB : VL042051.D
04/07/2025	B2503008	Q1728-06	-8.8	10119	1.4 L	10211		C2503005	VL042092.D Seq :VL030325 TUNE : VL042074.D ICAL : VL042046.D CCAL : VL042075.D MB : VL042076.D
04/07/2025	B2503008	Q1728-10	-9.2	10116	1.4 L	10484		C2503004	VL042053.D Seq :vl022625 TUNE : VL042049.D ICAL : VL042046.D CCAL : VL042050.D MB : VL042051.D



Canister Cleaning

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

Canister Batch : C2503004

Type of Canister : 1.4 L

Cleaning Date : 02/25/2025

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
10679	-30	02/26/2025	02/26/2025	-30	02/27/2025		10795	VL042053.D
10763	-30	02/26/2025	02/26/2025	-30	02/27/2025		10795	VL042053.D
10416	-30	02/26/2025	02/26/2025	-30	02/27/2025		10795	VL042053.D
10662	-30	02/26/2025	02/26/2025	-30	02/27/2025	Q1728-05	10795	VL042053.D
10731	-30	02/26/2025	02/26/2025	-30	02/27/2025		10795	VL042053.D
10794	-30	02/26/2025	02/26/2025	-30	02/27/2025		10795	VL042053.D
10452	-30	02/26/2025	02/26/2025	-30	02/27/2025		10795	VL042053.D
10455	-30	02/26/2025	02/26/2025	-30	02/27/2025		10795	VL042053.D
10118	-30	02/26/2025	02/26/2025	-30	02/27/2025		10795	VL042053.D
10130	-30	02/26/2025	02/26/2025	-30	02/27/2025	Q1728-01	10795	VL042053.D
10673	-30	02/26/2025	02/26/2025	-30	02/27/2025		10795	VL042053.D
10683	-30	02/26/2025	02/26/2025	-30	02/27/2025		10795	VL042053.D
10454	-30	02/26/2025	02/26/2025	-30	02/27/2025		10795	VL042053.D
10467	-30	02/26/2025	02/26/2025	-30	02/27/2025	Q1728-07	10795	VL042053.D
10413	-30	02/26/2025	02/26/2025	-30	02/27/2025		10795	VL042053.D
10722	-30	02/26/2025	02/26/2025	-30	02/27/2025	Q1728-09	10795	VL042053.D
10795	-30	02/26/2025	02/26/2025	-30	02/27/2025		10795	VL042053.D
10669	-30	02/26/2025	02/26/2025	-30	02/27/2025		10795	VL042053.D
10652	-30	02/26/2025	02/26/2025	-30	02/27/2025		10795	VL042053.D
10116	-30	02/26/2025	02/26/2025	-30	02/27/2025	Q1728-10	10795	VL042053.D
10716	-30	02/26/2025	02/26/2025	-30	02/27/2025		10795	VL042053.D



Canister Cleaning

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

Canister Batch : C2503005

Type of Canister : 1.4 L

Cleaning Date : 02/26/2025

Analyst : SAM

Oven Temperature : 125.0 c

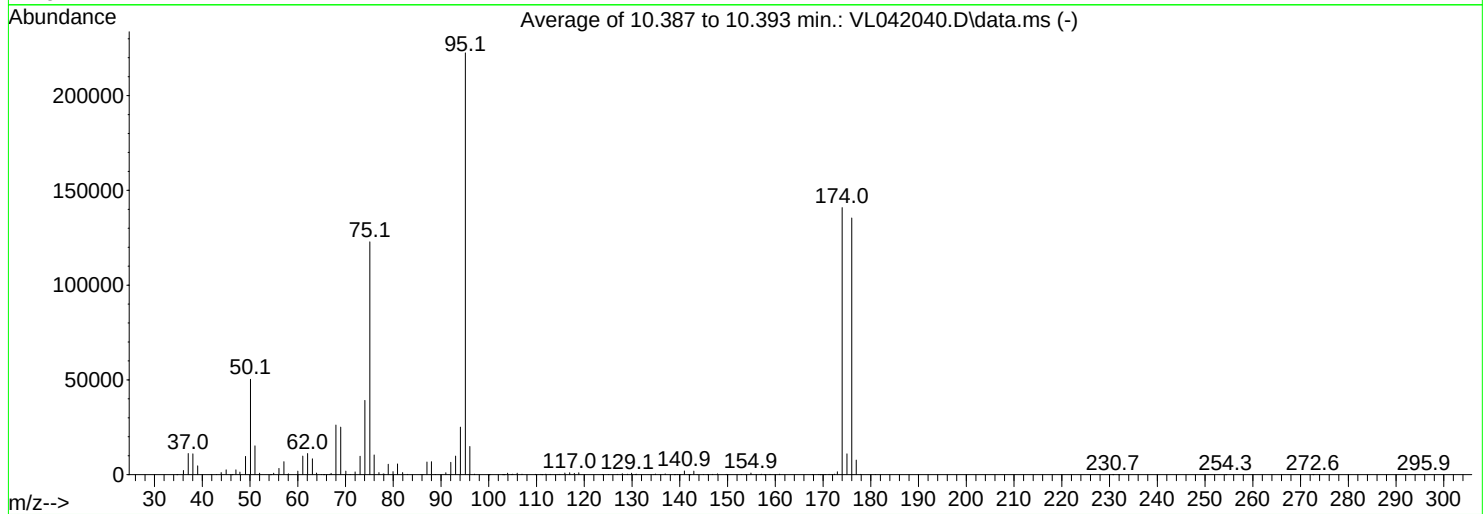
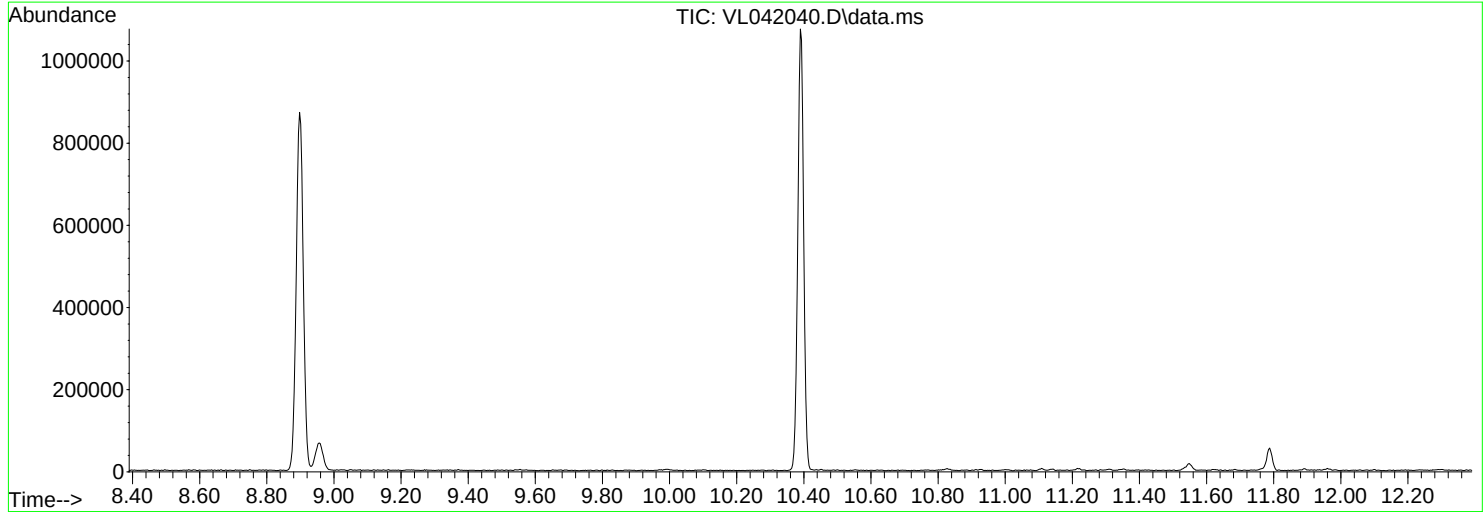
Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10431	-30	02/26/2025	03/04/2025	-30	02/27/2025		10682	VL042092.D
10121	-30	02/26/2025	03/04/2025	-30	02/27/2025		10682	VL042092.D
10462	-30	02/26/2025	03/04/2025	-30	02/27/2025	Q1728-12	10682	VL042092.D
10149	-30	02/26/2025	03/04/2025	-30	02/27/2025	Q1728-02	10682	VL042092.D
10650	-30	02/26/2025	03/04/2025	-30	02/27/2025		10682	VL042092.D
10046	-30	02/26/2025	03/04/2025	-30	02/27/2025		10682	VL042092.D
10450	-30	02/26/2025	03/04/2025	-30	02/27/2025		10682	VL042092.D
10757	-30	02/26/2025	03/04/2025	-30	02/27/2025		10682	VL042092.D
10119	-30	02/26/2025	03/04/2025	-30	02/27/2025	Q1728-06	10682	VL042092.D
10792	-30	02/26/2025	03/04/2025	-30	02/27/2025		10682	VL042092.D
10471	-30	02/26/2025	03/04/2025	-30	02/27/2025		10682	VL042092.D
10749	-30	02/26/2025	03/04/2025	-30	02/27/2025	Q1728-08	10682	VL042092.D
10656	-30	02/26/2025	03/04/2025	-30	02/27/2025		10682	VL042092.D
10432	-30	02/26/2025	03/04/2025	-30	02/27/2025		10682	VL042092.D
10800	-30	02/26/2025	03/04/2025	-30	02/27/2025		10682	VL042092.D
10677	-30	02/26/2025	03/04/2025	-30	02/27/2025		10682	VL042092.D
10458	-30	02/26/2025	03/04/2025	-30	02/27/2025	Q1728-03	10682	VL042092.D
10682	-30	02/26/2025	03/04/2025	-30	02/27/2025		10682	VL042092.D
10663	-30	02/26/2025	03/04/2025	-30	02/27/2025	Q1728-04	10682	VL042092.D
10793	-30	02/26/2025	03/04/2025	-30	02/27/2025		10682	VL042092.D
10466	-30	02/26/2025	03/04/2025	-30	02/27/2025	Q1728-11	10682	VL042092.D

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

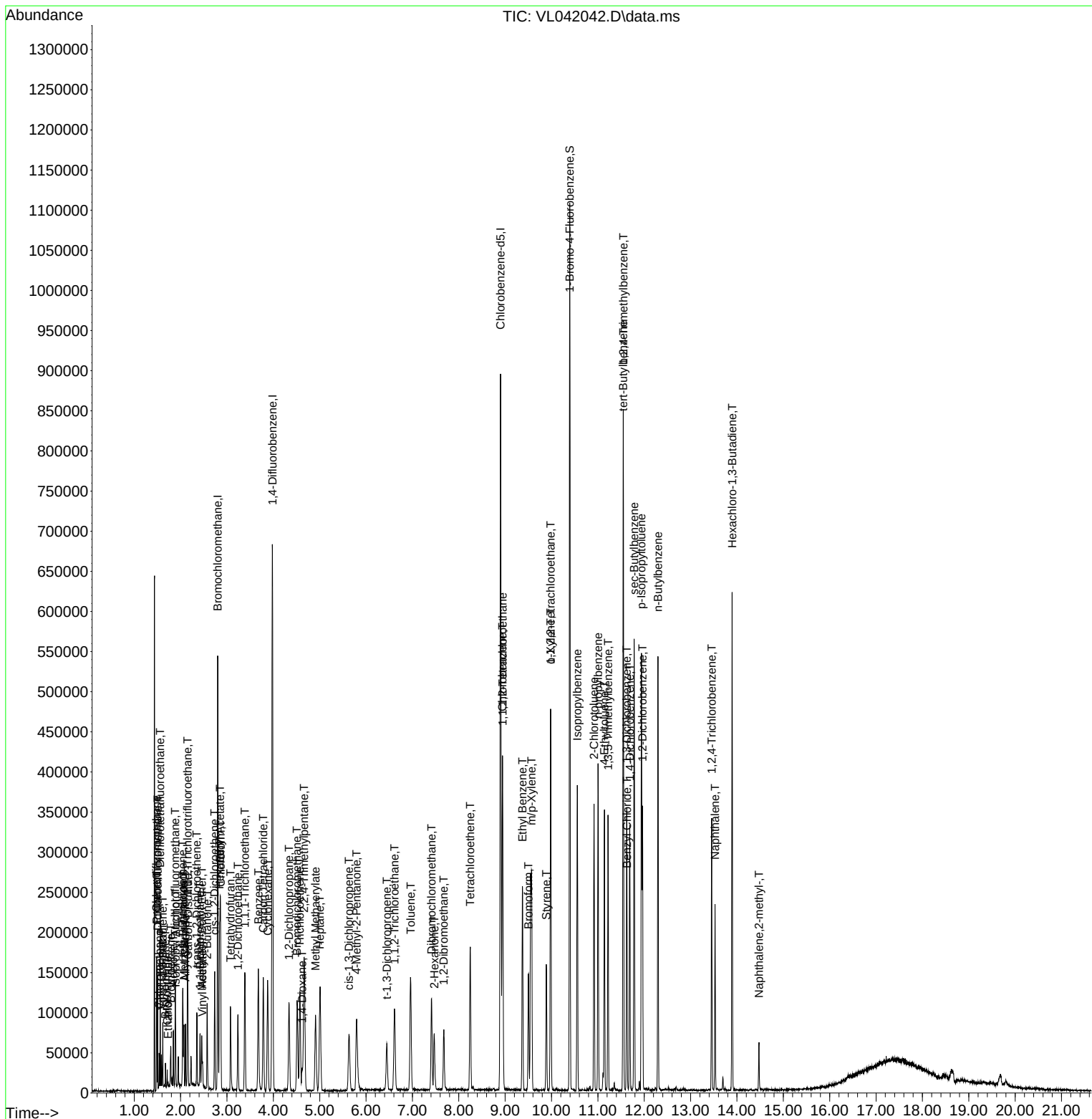
Response via : Initial Calibration

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

Manual Integrations

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
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration



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_LFri 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 : 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 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 : 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 : 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 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

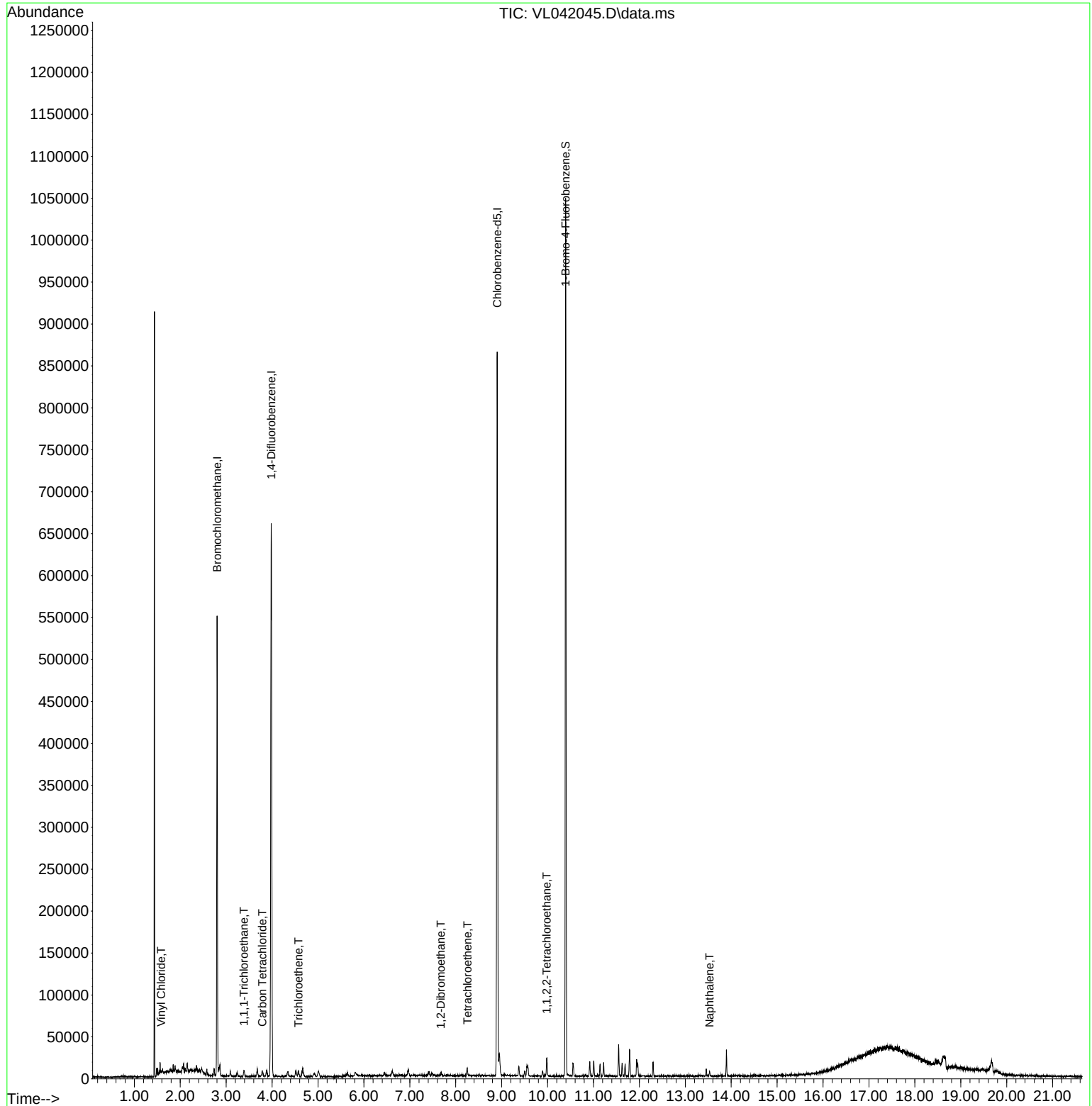
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042045.D
Acq On : 25 Feb 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

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

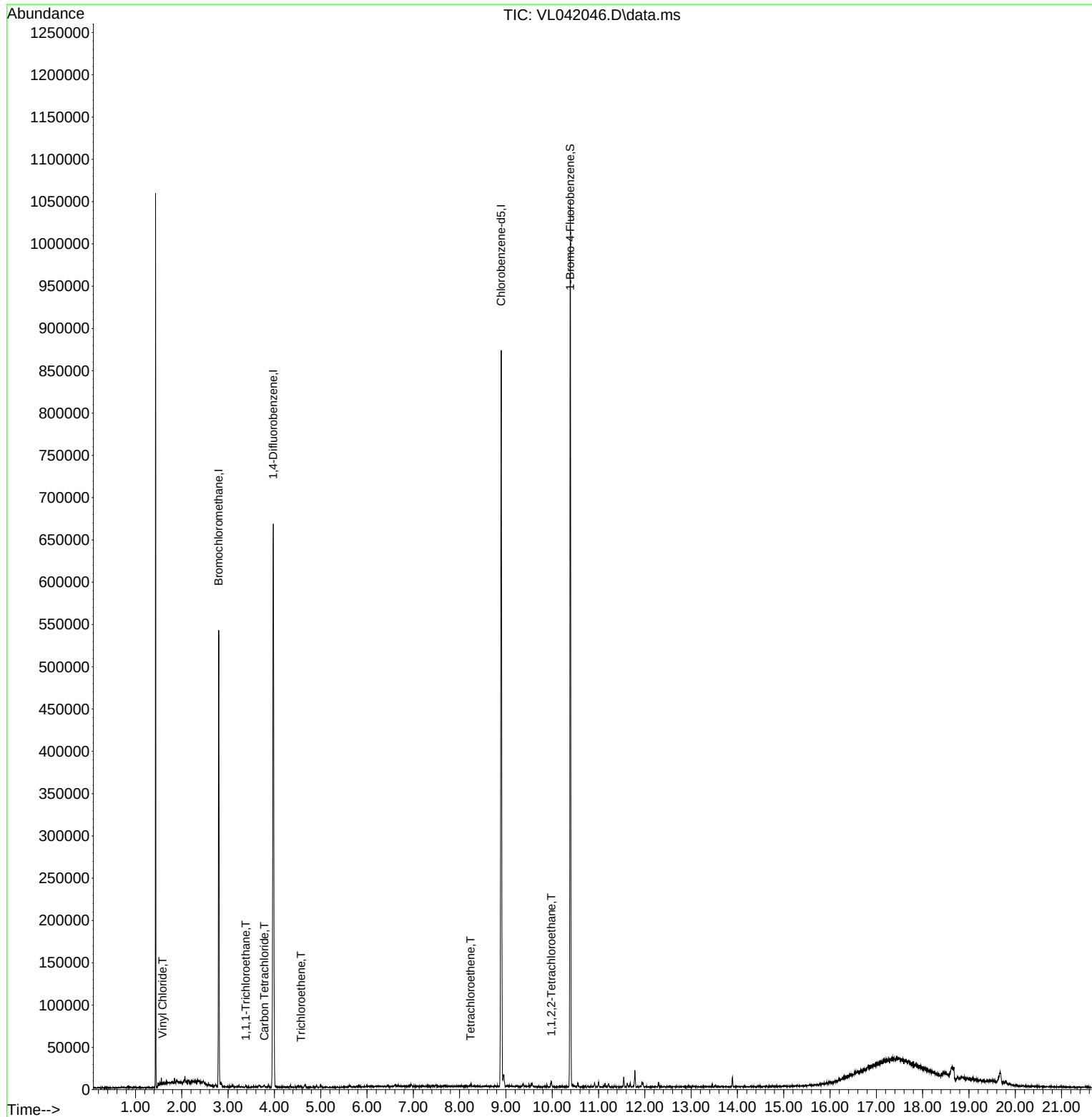
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042046.D
Acq On : 25 Feb 2025 11:34
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

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

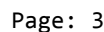
Response via : Initial Calibration

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\VL02252SAIR.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

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_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	2.800	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_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	5.635	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

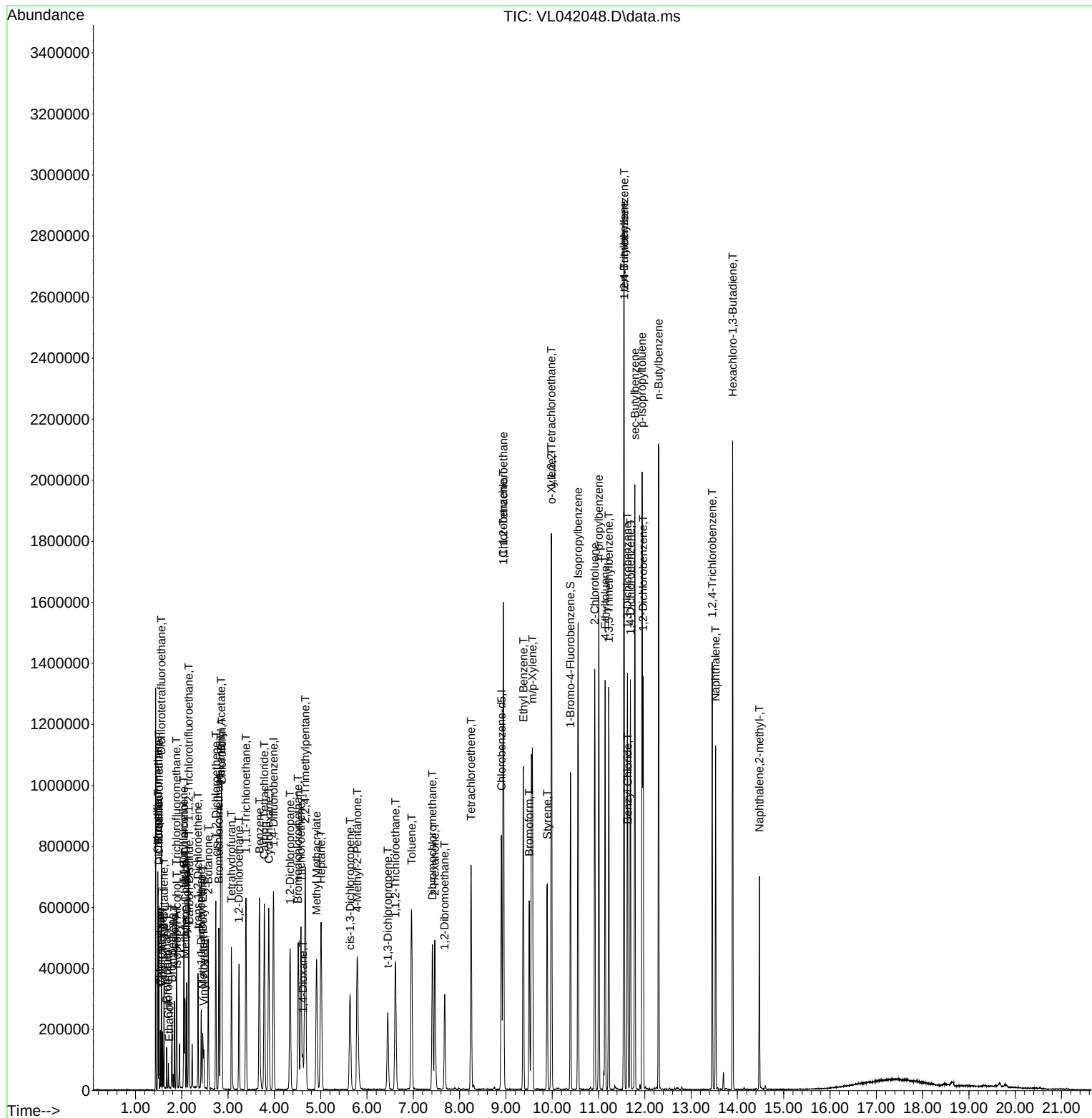
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042048.D
Acq On : 25 Feb 2025 13:15
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL022525

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_L Fri Aug
QLast Update : Wed Feb 26 01:08:36 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 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

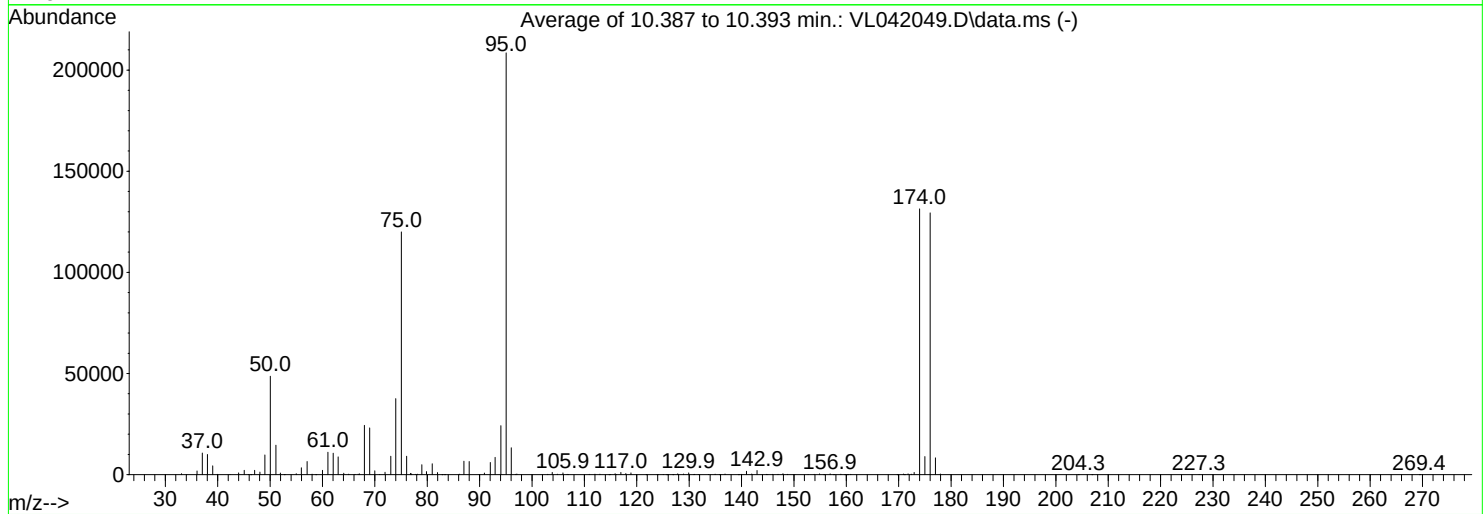
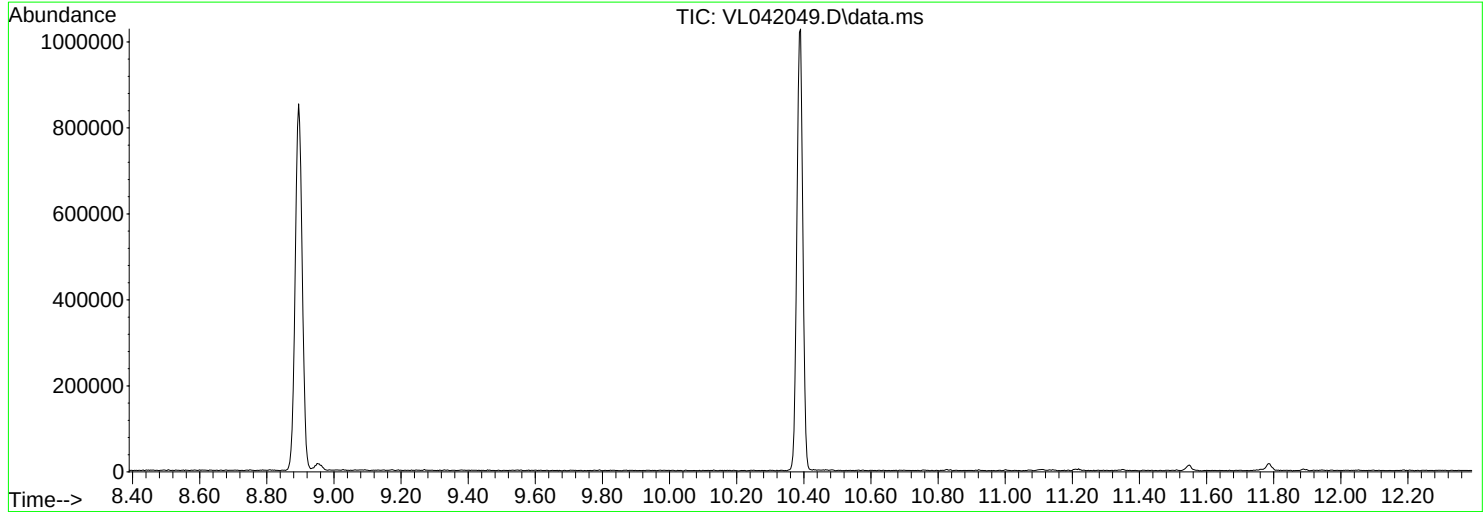
SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042049.D
Acq On : 26 Feb 2025 07:46
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\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 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.3	48688	PASS
75	95	30	66	57.6	120021	PASS
95	95	100	100	100.0	208533	PASS
96	95	5	9	6.4	13271	PASS
173	174	0.00	2	0.8	1077	PASS
174	95	50	120	63.0	131429	PASS
175	174	4	9	6.8	8951	PASS
176	174	93	101	98.5	129411	PASS
177	176	5	9	6.4	8302	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042050.D
 Acq On : 26 Feb 2025 08:38
 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 02/27/2025
 Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 00:24:17 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	2.797	49	157492	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	387144	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	336136	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 264623 10.233 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	159125	9.716	ppbv	96
3) Chlorodifluoromethane	1.479	51	217238	9.491	ppbv	99
4) Chloromethane	1.538	50	54275	8.962	ppbv	97
5) Vinyl Chloride	1.583	62	53871	9.404	ppbv	99
6) Bromomethane	1.670	94	25674	9.412	ppbv	100
7) Chloroethane	1.709	64	22033	9.466	ppbv	89
8) Dichlorotetrafluoroethane	1.557	85	129383	9.610	ppbv	99
9) Propene	1.486	41	87439	9.377	ppbv	97
10) Heptane	5.001	43	268030	9.231	ppbv	99
11) Trichlorofluoromethane	1.884	101	155832	9.496	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	114341	8.735	ppbv	99
13) Ethanol	1.725	45	2918	4.929	ppbv	98
14) Bromoethene	1.787	108	44414	9.608	ppbv	95
15) Acetone	1.842	43	116372	8.367	ppbv	98
16) 1,3-Butadiene	1.612	39	59133	9.136	ppbv	99
17) tert-Butyl alcohol	2.046	59	153167	8.802	ppbv	96
18) 1,1-Dichloroethene	2.039	96	51101	8.640	ppbv	93
19) Isopropyl Alcohol	1.890	45	69014	8.638	ppbv	98
20) Methylene Chloride	2.068	84	42907	8.156	ppbv	98
21) Allyl Chloride	2.101	41	86423	8.600	ppbv	99
22) trans-1,2-Dichloroethene	2.347	96	61551	8.927	ppbv	98
23) Vinyl Acetate	2.470	43	84867	8.678	ppbv	98
24) 1,1-Dichloroethane	2.418	63	118286	9.220	ppbv	99
25) Ethyl Acetate	2.848	43	521677	9.371	ppbv	99
26) Hexane	2.835	57	207168	9.205	ppbv	98
27) Carbon Disulfide	2.156	76	138544	9.081	ppbv	95
28) Methyl tert-Butyl Ether	2.447	73	88652	7.912	ppbv	97
29) Chloroform	2.858	83	273992	9.045	ppbv	98
30) Cyclohexane	3.871	84	167364	9.162	ppbv	94
31) cis-1,2-Dichloroethene	2.732	61	197466	9.268	ppbv	97
32) 1,1,1-Trichloroethane	3.379	97	275336	9.370	ppbv	97
34) 2-Butanone	2.567	43	298594	9.900	ppbv	97
35) Carbon Tetrachloride	3.777	117	272097	10.192	ppbv	97
36) Benzene	3.670	78	394494	9.734	ppbv	97
37) 1,2-Dichloroethane	3.230	62	224585	9.995	ppbv	99
38) Trichloroethene	4.567	130	149021	9.005	ppbv	97
39) 1,2-Dichloropropane	4.331	63	151626	9.857	ppbv	95
40) 1,4-Dioxane	4.606	88	68639	9.775	ppbv #	98
41) Tetrahydrofuran	3.065	42	178871	10.037	ppbv	97
42) Bromodichloromethane	4.509	83	306517	10.124	ppbv	98
43) Methyl Methacrylate	4.900	69	156460	9.885	ppbv	96
44) 2,2,4-Trimethylpentane	4.658	57	703370	9.834	ppbv	99
45) t-1,3-Dichloropropene	6.438	75	155197	9.870	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042050.D
 Acq On : 26 Feb 2025 08:38
 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 02/27/2025
 Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 00:24:17 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	5.622	75	205249	10.087	ppbv	99
47) 1,1,2-Trichloroethane	6.603	97	148058	9.481	ppbv	96
48) Dibromochloromethane	7.409	129	240304	9.825	ppbv	100
49) Bromoform	9.496	173	205649	9.682	ppbv	98
50) 4-Methyl-2-Pentanone	5.778	43	423271	10.851	ppbv	97
51) 2-Hexanone	7.454	43	345562	12.872	ppbv #	100
52) Tetrachloroethene	8.237	164	131164	9.454	ppbv	97
53) Toluene	6.952	91	439634	9.706	ppbv	98
54) 1,2-Dibromoethane	7.671	107	200726	9.507	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.940	131	178871	9.415	ppbv	100
57) Chlorobenzene	8.937	112	326805	9.377	ppbv	99
58) Ethyl Benzene	9.367	91	598242	9.664	ppbv	99
59) m/p-Xylene	9.564	91	957021m	19.427	ppbv	
60) o-Xylene	9.979	91	475848	9.608	ppbv	100
61) Styrene	9.885	104	231133	9.927	ppbv	99
62) Isopropylbenzene	10.552	105	718826	9.692	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.975	83	312195	9.572	ppbv	98
64) n-propylbenzene	11.001	120	185068	9.513	ppbv	95
65) tert-Butylbenzene	11.542	119	618290	9.160	ppbv	98
66) Benzyl Chloride	11.629	91	49850	9.678	ppbv	98
67) sec-Butylbenzene	11.778	105	890927	9.229	ppbv	100
69) p-Isopropyltoluene	11.937	119	724678	9.435	ppbv	100
70) n-Butylbenzene	12.293	91	756366	9.648	ppbv	99
71) 2-Chlorotoluene	10.914	91	545538	9.541	ppbv	99
72) 4-Ethyltoluene	11.137	105	574661	9.504	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	484912	9.245	ppbv	98
74) 1,2,4-Trimethylbenzene	11.548	105	527932	8.938	ppbv	96
75) 1,3-Dichlorobenzene	11.620	146	309408	9.102	ppbv	99
76) 1,4-Dichlorobenzene	11.684	146	309423	9.168	ppbv	99
77) 1,2-Dichlorobenzene	11.960	146	302720	9.177	ppbv	99
78) Hexachloro-1,3-Butadiene	13.892	225	229379	8.937	ppbv	100
79) Naphthalene	13.523	128	493813	12.193	ppbv	99
80) Naphthalene,2-methyl-	14.468	142	190978	17.232	ppbv	99
81) 1,2,4-Trichlorobenzene	13.452	180	226561	10.038	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042050.D
 Acq On : 26 Feb 2025 08:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Feb 27 00:24:17 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	98	0.00
2 T	Dichlorodifluoromethane	1.040	1.010	2.9	105	0.00
3	Chlorodifluoromethane	1.453	1.379	5.1	103	0.00
4	Chloromethane	0.385	0.345	10.4	98	0.00
5 T	Vinyl Chloride	0.364	0.342	6.0	99	0.00
6 T	Bromomethane	0.173	0.163	5.8	99	0.00
7	Chloroethane	0.148	0.140	5.4	101	0.00
8 T	Dichlorotetrafluoroethane	0.855	0.822	3.9	103	0.00
9 T	Propene	0.592	0.555	6.2	104	0.00
10 T	Heptane	1.844	1.702	7.7	100	0.00
11 T	Trichlorofluoromethane	1.042	0.989	5.1	102	0.00
12 T	1,1,2-Trichlorotrifluoroeth	0.831	0.726	12.6	102	0.00
13	Ethanol	0.038	0.019#	50.0#	92	0.00
14 T	Bromoethene	0.293	0.282	3.8	105	0.00
15 T	Acetone	0.883	0.739	16.3	101	0.00
16 T	1,3-Butadiene	0.411	0.375	8.8	102	0.00
17	tert-Butyl alcohol	1.105	0.973	11.9	100	0.00
18 T	1,1-Dichloroethene	0.376	0.324	13.8	99	0.00
19 T	Isopropyl Alcohol	0.507	0.438	13.6	102	0.00
20 T	Methylene Chloride	0.334	0.272	18.6	102	0.00
21 T	Allyl Chloride	0.638	0.549	13.9	100	0.00
22 T	trans-1,2-Dichloroethene	0.438	0.391	10.7	107	0.00
23 T	Vinyl Acetate	0.621	0.539	13.2	101	0.00
24 T	1,1-Dichloroethane	0.815	0.751	7.9	110	0.00
25 T	Ethyl Acetate	3.535	3.312	6.3	102	0.00
26 T	Hexane	1.429	1.315	8.0	100	0.00
27 T	Carbon Disulfide	0.969	0.880	9.2	100	0.00
28 T	Methyl tert-Butyl Ether	0.711	0.563	20.8	105	0.00
29 T	Chloroform	1.923	1.740	9.5	99	0.00
30 T	Cyclohexane	1.160	1.063	8.4	97	0.00
31 T	cis-1,2-Dichloroethene	1.353	1.254	7.3	99	0.00
32 T	1,1,1-Trichloroethane	1.866	1.748	6.3	96	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
34 T	2-Butanone	0.779	0.771	1.0	102	0.00
35 T	Carbon Tetrachloride	0.690	0.703	-1.9	98	0.00
36 T	Benzene	1.047	1.019	2.7	96	0.00
37 T	1,2-Dichloroethane	0.580	0.580	0.0	102	0.00
38 T	Trichloroethene	0.427	0.385	9.8	93	0.00
39 T	1,2-Dichloropropane	0.397	0.392	1.3	100	0.00
40 T	1,4-Dioxane	0.181	0.177	2.2	99	0.00
41 T	Tetrahydrofuran	0.460	0.462	-0.4	101	0.00
42 T	Bromodichloromethane	0.782	0.792	-1.3	98	0.00
43	Methyl Methacrylate	0.409	0.404	1.2	95	0.00
44 T	2,2,4-Trimethylpentane	1.848	1.817	1.7	100	0.00
45 T	t-1,3-Dichloropropene	0.406	0.401	1.2	93	0.00
46 T	cis-1,3-Dichloropropene	0.526	0.530	-0.8	94	0.00
47 T	1,1,2-Trichloroethane	0.403	0.382	5.2	97	0.00
48 T	Dibromochloromethane	0.632	0.621	1.7	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042050.D
 Acq On : 26 Feb 2025 08:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Feb 27 00:24:17 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	0.531	3.3	93	0.00
50 T	4-Methyl-2-Pentanone	1.008	1.093	-8.4	99	0.00
51 T	2-Hexanone	0.693	0.893	-28.9	98	0.00
52 T	Tetrachloroethene	0.358	0.339	5.3	95	0.00
53 T	Toluene	1.170	1.136	2.9	96	0.00
54 T	1,2-Dibromoethane	0.545	0.518	5.0	95	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
56	1,1,1,2-Tetrachloroethane	0.565	0.532	5.8	95	0.00
57 T	Chlorobenzene	1.037	0.972	6.3	96	0.00
58 T	Ethyl Benzene	1.842	1.780	3.4	94	0.00
59 T	m/p-Xylene	1.466	1.424	2.9	96	0.01
60 T	o-Xylene	1.473	1.416	3.9	97	0.00
61 T	Styrene	0.693	0.688	0.7	94	0.00
62	Isopropylbenzene	2.207	2.138	3.1	98	0.00
63 T	1,1,2,2-Tetrachloroethane	0.970	0.929	4.2	98	0.00
64	n-propylbenzene	0.579	0.551	4.8	94	0.00
65	tert-Butylbenzene	2.008	1.839	8.4	95	0.00
66 T	Benzyl Chloride	0.153	0.148	3.3	87	0.00
67	sec-Butylbenzene	2.872	2.650	7.7	96	0.00
68 S	1-Bromo-4-Fluorobenzene	0.769	0.787	-2.3	93	0.00
69	p-Isopropyltoluene	2.285	2.156	5.6	96	0.00
70	n-Butylbenzene	2.332	2.250	3.5	98	0.00
71	2-Chlorotoluene	1.701	1.623	4.6	96	0.00
72 T	4-Ethyltoluene	1.799	1.710	4.9	95	0.00
73 T	1,3,5-Trimethylbenzene	1.560	1.443	7.5	94	0.00
74 T	1,2,4-Trimethylbenzene	1.757	1.571	10.6	96	0.00
75 T	1,3-Dichlorobenzene	1.011	0.920	9.0	95	0.00
76 T	1,4-Dichlorobenzene	1.004	0.921	8.3	96	0.00
77 T	1,2-Dichlorobenzene	0.981	0.901	8.2	97	0.00
78 T	Hexachloro-1,3-Butadiene	0.764	0.682	10.7	96	0.00
79 T	Naphthalene	1.205	1.469	-21.9	96	0.00
80 T	Naphthalene,2-methyl-	0.330	0.568	-72.1#	91	0.00
81 T	1,2,4-Trichlorobenzene	0.671	0.674	-0.4	94	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042051.D
 Acq On : 26 Feb 2025 09:20
 Operator : SY/MD
 Sample : VL0226ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0226ABL01

Quant Time: Feb 27 00:25:17 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	2.797	49	157395	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	386755	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	331916	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.390	95	257988	10.103	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.000%

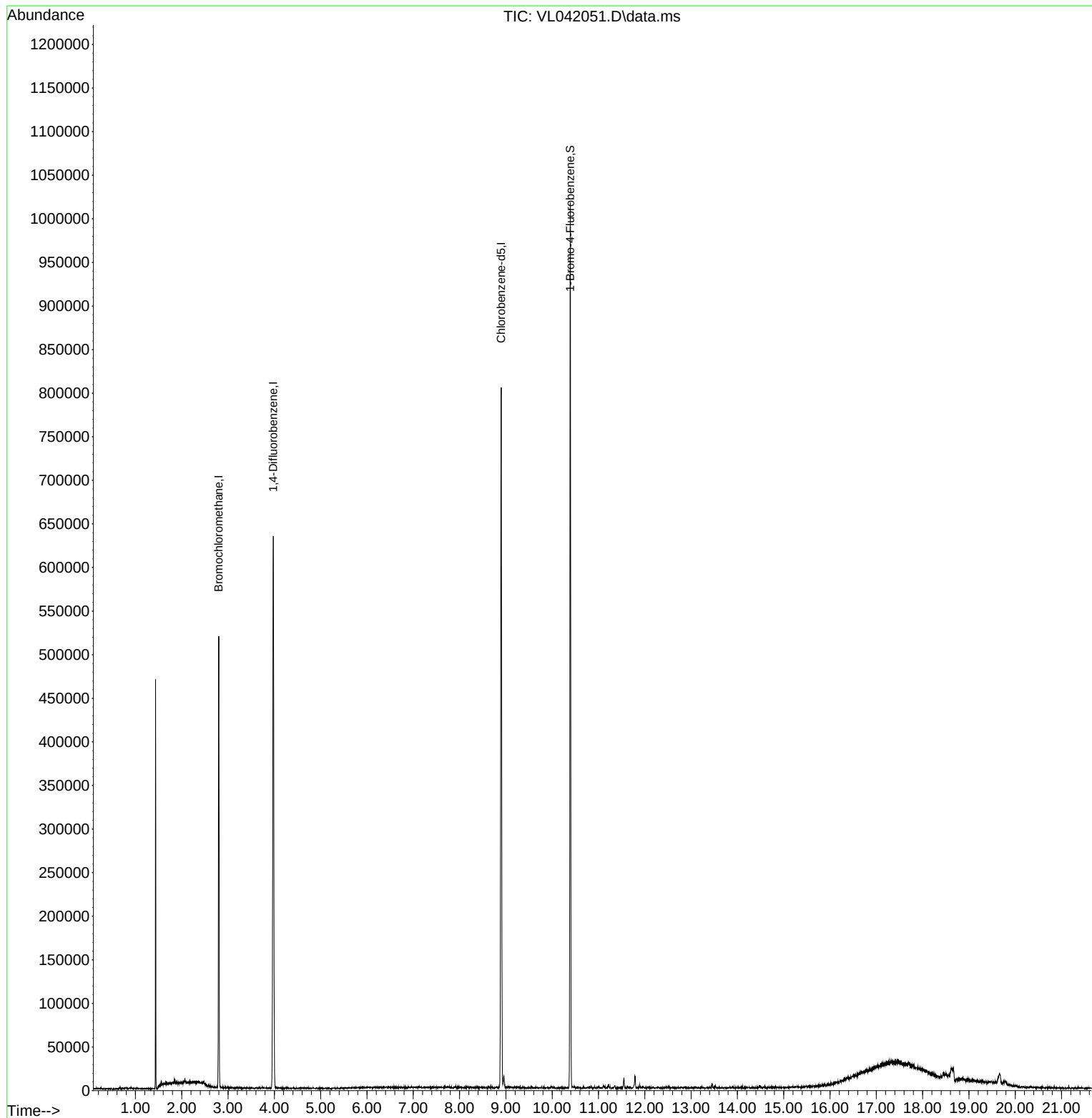
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042051.D
Acq On : 26 Feb 2025 09:20
Operator : SY/MD
Sample : VL0226ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0226ABL01

Quant Time: Feb 27 00:25:17 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\VL022625\
 Data File : VL042053.D
 Acq On : 26 Feb 2025 10:36
 Operator : SY/MD
 Sample : QC022525 CAN 10795
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC022525 CAN 10795

Quant Time: Feb 27 00:26:01 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	2.793	49	149362	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	359989	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	310295	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	240272	10.065	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.600%

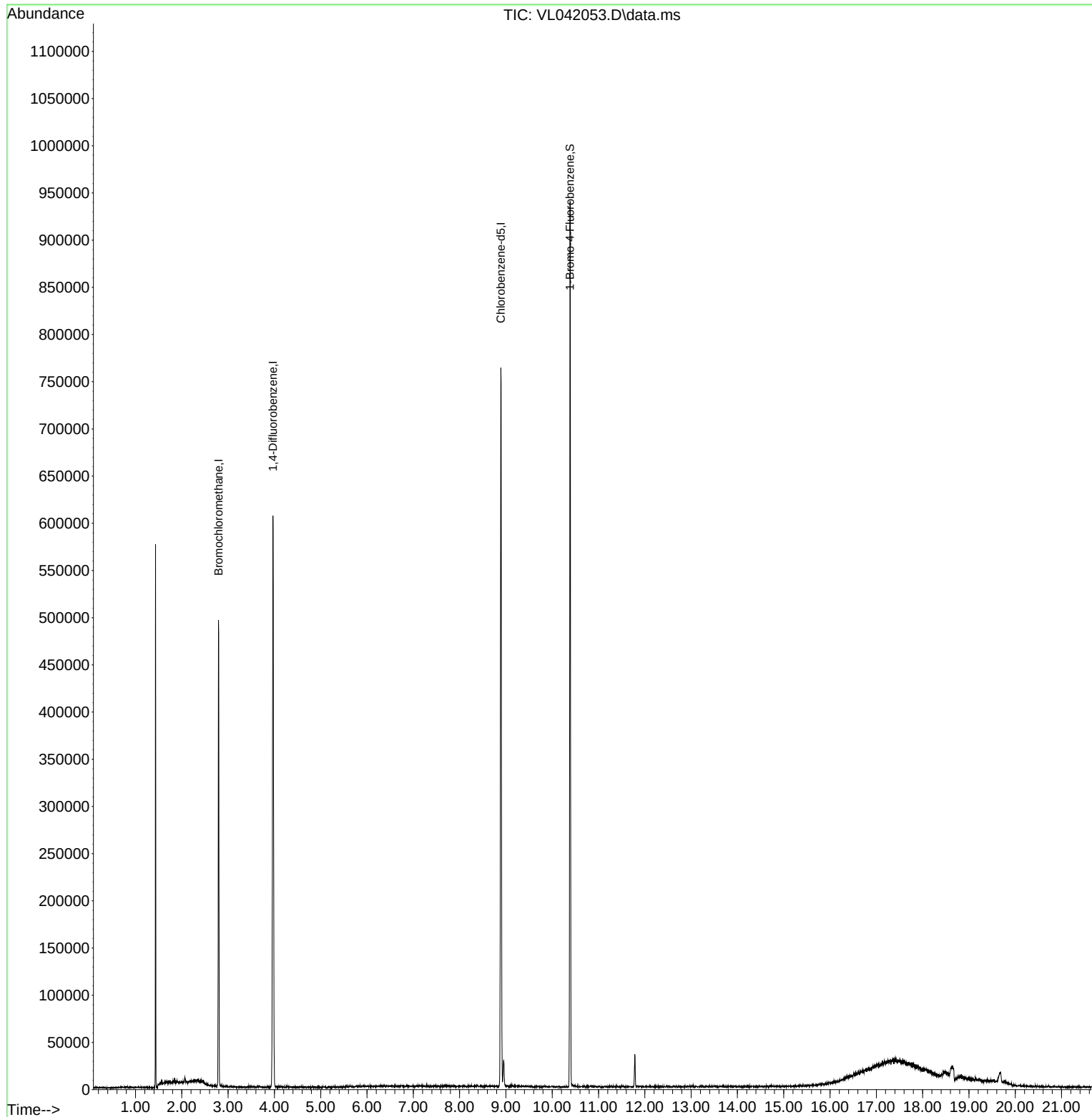
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042053.D
Acq On : 26 Feb 2025 10:36
Operator : SY/MD
Sample : QC022525 CAN 10795
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC022525 CAN 10795

Quant Time: Feb 27 00:26:01 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\VL022625\
 Data File : VL042054.D
 Acq On : 26 Feb 2025 11:07
 Operator : SY/MD
 Sample : VL0226ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0226ABS01

Quant Time: Feb 27 00:26:21 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 02/27/2025
 Supervised By : Mahesh Dadoda 02/27/2025

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

Internal Standards						
1) Bromochloromethane	2.797	49	153181	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	369057	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	318885	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 257152 10.482 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	154942	9.727	ppbv	100
3) Chlorodifluoromethane	1.480	51	208345	9.358	ppbv	100
4) Chloromethane	1.538	50	53585	9.097	ppbv	99
5) Vinyl Chloride	1.583	62	54944	9.861	ppbv	96
6) Bromomethane	1.674	94	25364	9.560	ppbv	96
7) Chloroethane	1.709	64	21007	9.279	ppbv	88
8) Dichlorotetrafluoroethane	1.557	85	125091	9.553	ppbv	98
9) Propene	1.486	41	83500	9.206	ppbv	99
10) Heptane	5.001	43	256046	9.067	ppbv	99
11) Trichlorofluoromethane	1.884	101	154527	9.682	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.146	101	124837	9.805	ppbv	96
13) Ethanol	1.726	45	3000	5.211	ppbv	92
14) Bromoethene	1.787	108	43051	9.576	ppbv	99
15) Acetone	1.842	43	116404	8.605	ppbv	100
16) 1,3-Butadiene	1.612	39	57319	9.105	ppbv	99
17) tert-Butyl alcohol	2.049	59	156939	9.273	ppbv	99
18) 1,1-Dichloroethene	2.039	96	53389	9.281	ppbv	86
19) Isopropyl Alcohol	1.891	45	68899	8.867	ppbv	100
20) Methylene Chloride	2.069	84	46174	9.024	ppbv	93
21) Allyl Chloride	2.101	41	92702	9.484	ppbv	99
22) trans-1,2-Dichloroethene	2.347	96	61477	9.167	ppbv	99
23) Vinyl Acetate	2.470	43	80476	8.461	ppbv	98
24) 1,1-Dichloroethane	2.415	63	119185	9.551	ppbv	99
25) Ethyl Acetate	2.845	43	509260	9.405	ppbv	100
26) Hexane	2.836	57	194754	8.897	ppbv	94
27) Carbon Disulfide	2.156	76	144095	9.711	ppbv #	91
28) Methyl tert-Butyl Ether	2.451	73	106845	9.804	ppbv	99
29) Chloroform	2.858	83	266332	9.040	ppbv	98
30) Cyclohexane	3.871	84	158311	8.910	ppbv	94
31) cis-1,2-Dichloroethene	2.729	61	193240	9.325	ppbv	94
32) 1,1,1-Trichloroethane	3.379	97	262261	9.177	ppbv	96
34) 2-Butanone	2.567	43	292802	10.184	ppbv	97
35) Carbon Tetrachloride	3.778	117	262129	10.300	ppbv	95
36) Benzene	3.671	78	375533	9.720	ppbv	95
37) 1,2-Dichloroethane	3.231	62	218716	10.211	ppbv	98
38) Trichloroethene	4.567	130	143714	9.110	ppbv	95
39) 1,2-Dichloropropane	4.331	63	146117	9.964	ppbv	99
40) 1,4-Dioxane	4.603	88	65661	9.809	ppbv #	96
41) Tetrahydrofuran	3.066	42	172429	10.150	ppbv	98
42) Bromodichloromethane	4.506	83	289453	10.029	ppbv	100
43) Methyl Methacrylate	4.904	69	151059	10.012	ppbv	95
44) 2,2,4-Trimethylpentane	4.658	57	684336	10.036	ppbv	99
45) t-1,3-Dichloropropene	6.441	75	147062	9.811	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042054.D
 Acq On : 26 Feb 2025 11:07
 Operator : SY/MD
 Sample : VL0226ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0226ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/27/2025
 Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 00:26:21 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	5.626	75	191420	9.868	ppbv	98
47) 1,1,2-Trichloroethane	6.603	97	139001	9.337	ppbv	97
48) Dibromochloromethane	7.406	129	228694	9.808	ppbv	100
49) Bromoform	9.497	173	194002	9.581	ppbv	99
50) 4-Methyl-2-Pentanone	5.775	43	407870	10.969	ppbv	98
51) 2-Hexanone	7.454	43	327784	12.808	ppbv #	99
52) Tetrachloroethene	8.241	164	123860	9.365	ppbv	95
53) Toluene	6.953	91	418086	9.683	ppbv	98
54) 1,2-Dibromoethane	7.671	107	190454	9.462	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.940	131	171980	9.542	ppbv	100
57) Chlorobenzene	8.937	112	313487	9.482	ppbv	98
58) Ethyl Benzene	9.370	91	575798	9.805	ppbv	99
59) m/p-Xylene	9.565	91	909392m	19.459	ppbv	
60) o-Xylene	9.976	91	450481	9.588	ppbv	100
61) Styrene	9.882	104	218205	9.879	ppbv	100
62) Isopropylbenzene	10.552	105	678100	9.637	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.976	83	295251	9.543	ppbv	99
64) n-propylbenzene	10.999	120	178544	9.674	ppbv	95
65) tert-Butylbenzene	11.542	119	599970	9.369	ppbv	98
66) Benzyl Chloride	11.630	91	44022	9.009	ppbv	97
67) sec-Butylbenzene	11.779	105	863022	9.423	ppbv	99
69) p-Isopropyltoluene	11.937	119	715231	9.816	ppbv	99
70) n-Butylbenzene	12.293	91	744799	10.014	ppbv	99
71) 2-Chlorotoluene	10.914	91	520897	9.603	ppbv	99
72) 4-Ethyltoluene	11.138	105	558376	9.734	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	475566	9.557	ppbv	98
74) 1,2,4-Trimethylbenzene	11.549	105	520419	9.288	ppbv	99
75) 1,3-Dichlorobenzene	11.620	146	302808	9.390	ppbv	98
76) 1,4-Dichlorobenzene	11.685	146	298128	9.311	ppbv	99
77) 1,2-Dichlorobenzene	11.960	146	293043	9.364	ppbv	99
78) Hexachloro-1,3-Butadiene	13.892	225	216968	8.911	ppbv	99
79) Naphthalene	13.523	128	476359	12.399	ppbv	99
80) Naphthalene,2-methyl-	14.468	142	187061	17.792	ppbv	98
81) 1,2,4-Trichlorobenzene	13.452	180	218258	10.194	ppbv	99

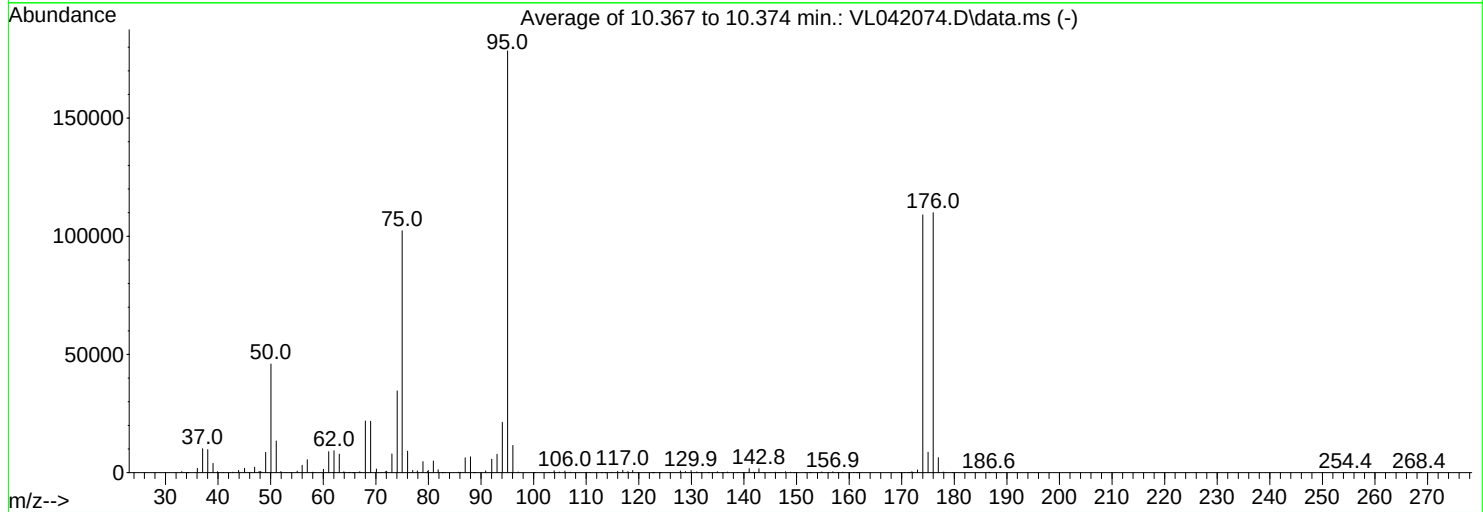
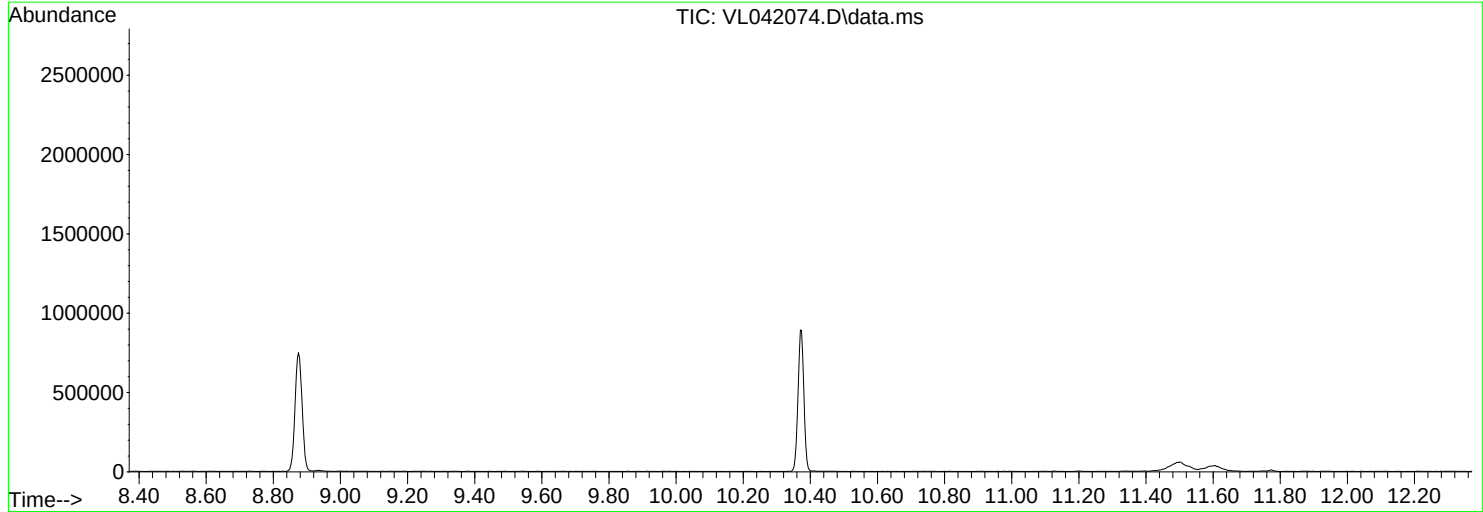
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
 Data File : VL042074.D
 Acq On : 03 Mar 2025 11:45
 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 3176, 3177, 3178; Background Corrected with Scan 3162

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	25.8	45971	PASS
75	95	30	66	57.4	102347	PASS
95	95	100	100	100.0	178453	PASS
96	95	5	9	6.5	11542	PASS
173	174	0.00	2	1.0	1135	PASS
174	95	50	120	61.1	109091	PASS
175	174	4	9	7.9	8641	PASS
176	174	93	101	100.9	110029	PASS
177	176	5	9	5.8	6386	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
 Data File : VL042075.D
 Acq On : 03 Mar 2025 12:15
 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 03/04/2025
 Supervised By :Mahesh Dadoda 03/05/2025

Quant Time: Mar 04 00:16:36 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)

Internal Standards						
1) Bromochloromethane	2.784	49	173325	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.952	114	409365	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.875	117	350236	10.000	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 273654 10.156 ppbv -0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.495	85	176895	9.815	ppbv	98
3) Chlorodifluoromethane	1.473	51	229308	9.103	ppbv	100
4) Chloromethane	1.531	50	61184	9.180	ppbv	99
5) Vinyl Chloride	1.576	62	60317	9.567	ppbv	100
6) Bromomethane	1.664	94	30156	10.045	ppbv	92
7) Chloroethane	1.703	64	24074	9.398	ppbv	98
8) Dichlorotetrafluoroethane	1.550	85	144041	9.722	ppbv	99
9) Propene	1.482	41	95116	9.268	ppbv	99
10) Heptane	4.972	43	285343	8.930	ppbv	96
11) Trichlorofluoromethane	1.874	101	187492	10.382	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.136	101	142259	9.875	ppbv	98
13) Ethanol	1.719	45	3376	5.182	ppbv	95
14) Bromoethene	1.780	108	48570	9.548	ppbv	100
15) Acetone	1.832	43	133956	8.752	ppbv	99
16) 1,3-Butadiene	1.605	39	64990	9.124	ppbv	99
17) tert-Butyl alcohol	2.036	59	174843	9.130	ppbv	97
18) 1,1-Dichloroethene	2.029	96	62817	9.651	ppbv	98
19) Isopropyl Alcohol	1.884	45	79667	9.061	ppbv	100
20) Methylene Chloride	2.059	84	53086	9.169	ppbv	97
21) Allyl Chloride	2.091	41	107750	9.743	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	72547	9.561	ppbv	93
23) Vinyl Acetate	2.460	43	89888	8.352	ppbv	99
24) 1,1-Dichloroethane	2.405	63	136644	9.678	ppbv	99
25) Ethyl Acetate	2.832	43	563012	9.189	ppbv	99
26) Hexane	2.822	57	216702	8.749	ppbv	94
27) Carbon Disulfide	2.146	76	166324	9.906	ppbv	97
28) Methyl tert-Butyl Ether	2.437	73	102443	8.307	ppbv	99
29) Chloroform	2.845	83	294142	8.824	ppbv	100
30) Cyclohexane	3.852	84	170364	8.474	ppbv	91
31) cis-1,2-Dichloroethene	2.716	61	209328	8.928	ppbv	95
32) 1,1,1-Trichloroethane	3.363	97	275584	8.522	ppbv	94
34) 2-Butanone	2.554	43	324639	10.179	ppbv	96
35) Carbon Tetrachloride	3.755	117	281106	9.958	ppbv	93
36) Benzene	3.651	78	410714	9.584	ppbv	98
37) 1,2-Dichloroethane	3.214	62	235420	9.908	ppbv	98
38) Trichloroethene	4.541	130	154616	8.836	ppbv	99
39) 1,2-Dichloropropane	4.308	63	159010	9.776	ppbv	95
40) 1,4-Dioxane	4.577	88	69401	9.347	ppbv #	99
41) Tetrahydrofuran	3.052	42	189509	10.057	ppbv	97
42) Bromodichloromethane	4.483	83	315387	9.852	ppbv	97
43) Methyl Methacrylate	4.871	69	160485	9.589	ppbv	92
44) 2,2,4-Trimethylpentane	4.635	57	731737	9.675	ppbv	98
45) t-1,3-Dichloropropene	6.409	75	150198	9.033	ppbv	89

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
 Data File : VL042075.D
 Acq On : 03 Mar 2025 12:15
 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 03/04/2025
 Supervised By :Mahesh Dadoda 03/05/2025

Quant Time: Mar 04 00:16:36 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	5.590	75	201389	9.360	ppbv	97
47) 1,1,2-Trichloroethane	6.574	97	155548	9.419	ppbv	94
48) Dibromochloromethane	7.380	129	244551	9.456	ppbv	99
49) Bromoform	9.477	173	215068	9.576	ppbv	99
50) 4-Methyl-2-Pentanone	5.742	43	451104	10.937	ppbv	97
51) 2-Hexanone	7.428	43	364047	12.824	ppbv #	98
52) Tetrachloroethene	8.218	164	135049	9.205	ppbv	96
53) Toluene	6.926	91	448652	9.368	ppbv	99
54) 1,2-Dibromoethane	7.645	107	207672	9.302	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.917	131	186364	9.414	ppbv	99
57) Chlorobenzene	8.917	112	344415	9.485	ppbv	99
58) Ethyl Benzene	9.351	91	617808	9.578	ppbv	99
59) m/p-Xylene	9.545	91	999203m	19.467	ppbv	
60) o-Xylene	9.959	91	499183	9.674	ppbv	99
61) Styrene	9.865	104	239891	9.888	ppbv	99
62) Isopropylbenzene	10.535	105	742029	9.602	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.956	83	327826	9.647	ppbv	99
64) n-propylbenzene	10.985	120	194972	9.618	ppbv	95
65) tert-Butylbenzene	11.529	119	655219	9.316	ppbv	98
66) Benzyl Chloride	11.613	91	44259	8.247	ppbv	99
67) sec-Butylbenzene	11.765	105	956463	9.509	ppbv	100
69) p-Isopropyltoluene	11.924	119	773774	9.669	ppbv	99
70) n-Butylbenzene	12.280	91	803607	9.837	ppbv	99
71) 2-Chlorotoluene	10.898	91	568423	9.541	ppbv	99
72) 4-Ethyltoluene	11.121	105	607815	9.647	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	516320	9.447	ppbv	99
74) 1,2,4-Trimethylbenzene	11.532	105	569704	9.257	ppbv #	91
75) 1,3-Dichlorobenzene	11.603	146	332997	9.402	ppbv	98
76) 1,4-Dichlorobenzene	11.668	146	334533	9.513	ppbv	99
77) 1,2-Dichlorobenzene	11.943	146	328836	9.567	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	235840	8.819	ppbv	98
79) Naphthalene	13.510	128	519908	12.321	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	193268	16.737	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	237980	10.120	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
Data File : VL042075.D
Acq On : 03 Mar 2025 12:15
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 03/04/2025
Supervised By : Mahesh Dadoda 03/05/2025

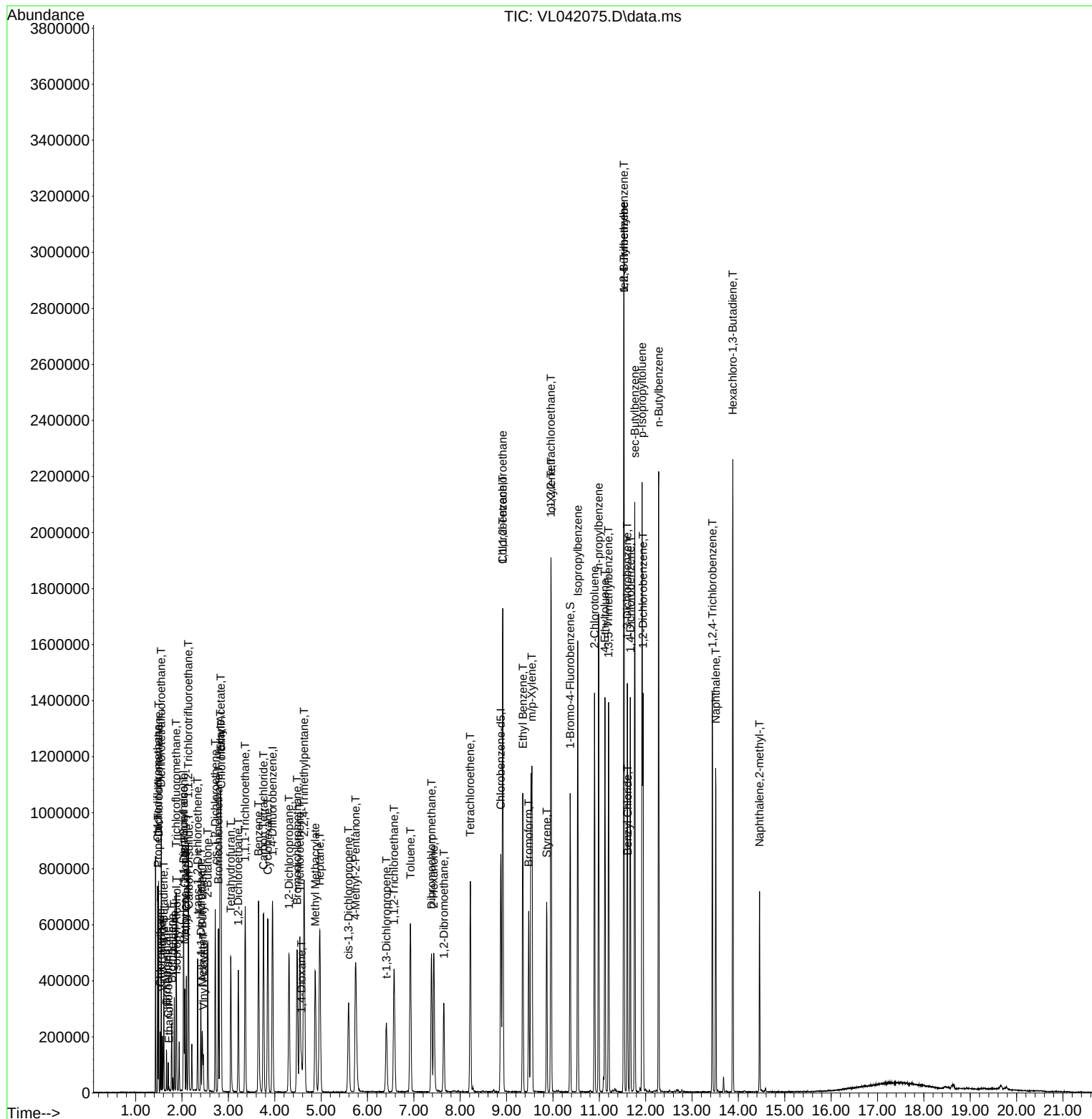
Quant Time: Mar 04 00:16:36 2025

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 : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
 Data File : VL042075.D
 Acq On : 03 Mar 2025 12:15
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Mar 04 00:16:36 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	108	-0.02
2 T	Dichlorodifluoromethane	1.040	1.021	1.8	116	0.00
3	Chlorodifluoromethane	1.453	1.323	8.9	109	0.00
4	Chloromethane	0.385	0.353	8.3	111	0.00
5 T	Vinyl Chloride	0.364	0.348	4.4	111	0.00
6 T	Bromomethane	0.173	0.174	-0.6	117	0.00
7	Chloroethane	0.148	0.139	6.1	111	0.00
8 T	Dichlorotetrafluoroethane	0.855	0.831	2.8	115	0.00
9 T	Propene	0.592	0.549	7.3	113	0.00
10 T	Heptane	1.844	1.646	10.7	107	-0.04
11 T	Trichlorofluoromethane	1.042	1.082	-3.8	123	0.00
12 T	1,1,2-Trichlorotrifluoroeth	0.831	0.821	1.2	127	0.00
13	Ethanol	0.038	0.019#	50.0#	106	0.00
14 T	Bromoethene	0.293	0.280	4.4	114	0.00
15 T	Acetone	0.883	0.773	12.5	116	0.00
16 T	1,3-Butadiene	0.411	0.375	8.8	113	0.00
17	tert-Butyl alcohol	1.105	1.009	8.7	114	-0.01
18 T	1,1-Dichloroethene	0.376	0.362	3.7	122	-0.01
19 T	Isopropyl Alcohol	0.507	0.460	9.3	118	0.00
20 T	Methylene Chloride	0.334	0.306	8.4	126	0.00
21 T	Allyl Chloride	0.638	0.622	2.5	124	-0.01
22 T	trans-1,2-Dichloroethene	0.438	0.419	4.3	126	-0.01
23 T	Vinyl Acetate	0.621	0.519	16.4	107	-0.01
24 T	1,1-Dichloroethane	0.815	0.788	3.3	127	-0.01
25 T	Ethyl Acetate	3.535	3.248	8.1	110	-0.02
26 T	Hexane	1.429	1.250	12.5	105	-0.02
27 T	Carbon Disulfide	0.969	0.960	0.9	121	-0.01
28 T	Methyl tert-Butyl Ether	0.711	0.591	16.9	122	-0.01
29 T	Chloroform	1.923	1.697	11.8	106	-0.02
30 T	Cyclohexane	1.160	0.983	15.3	98	-0.02
31 T	cis-1,2-Dichloroethene	1.353	1.208	10.7	105	-0.02
32 T	1,1,1-Trichloroethane	1.866	1.590	14.8	97	-0.02
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	97	-0.03
34 T	2-Butanone	0.779	0.793	-1.8	111	-0.02
35 T	Carbon Tetrachloride	0.690	0.687	0.4	102	-0.03
36 T	Benzene	1.047	1.003	4.2	100	-0.02
37 T	1,2-Dichloroethane	0.580	0.575	0.9	107	-0.02
38 T	Trichloroethene	0.427	0.378	11.5	97	-0.03
39 T	1,2-Dichloropropane	0.397	0.388	2.3	105	-0.03
40 T	1,4-Dioxane	0.181	0.170	6.1	100	-0.03
41 T	Tetrahydrofuran	0.460	0.463	-0.7	107	-0.02
42 T	Bromodichloromethane	0.782	0.770	1.5	101	-0.03
43	Methyl Methacrylate	0.409	0.392	4.2	97	-0.04
44 T	2,2,4-Trimethylpentane	1.848	1.787	3.3	104	-0.03
45 T	t-1,3-Dichloropropene	0.406	0.367	9.6	90	-0.04
46 T	cis-1,3-Dichloropropene	0.526	0.492	6.5	92	-0.04
47 T	1,1,2-Trichloroethane	0.403	0.380	5.7	102	-0.04
48 T	Dibromochloromethane	0.632	0.597	5.5	97	-0.03

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
 Data File : VL042075.D
 Acq On : 03 Mar 2025 12:15
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Mar 04 00:16:36 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	0.525	4.4	97	-0.03
50 T	4-Methyl-2-Pentanone	1.008	1.102	-9.3	105	-0.05
51 T	2-Hexanone	0.693	0.889	-28.3	103	-0.04
52 T	Tetrachloroethene	0.358	0.330	7.8	98	-0.03
53 T	Toluene	1.170	1.096	6.3	98	-0.03
54 T	1,2-Dibromoethane	0.545	0.507	7.0	98	-0.03
55 I	Chlorobenzene-d5	1.000	1.000	0.0	94	-0.03
56	1,1,1,2-Tetrachloroethane	0.565	0.532	5.8	99	-0.03
57 T	Chlorobenzene	1.037	0.983	5.2	101	-0.02
58 T	Ethyl Benzene	1.842	1.764	4.2	97	-0.02
59 T	m/p-Xylene	1.466	1.426	2.7	100	0.00
60 T	o-Xylene	1.473	1.425	3.3	101	-0.02
61 T	Styrene	0.693	0.685	1.2	97	-0.02
62	Isopropylbenzene	2.207	2.119	4.0	101	-0.02
63 T	1,1,2,2-Tetrachloroethane	0.970	0.936	3.5	103	-0.02
64	n-propylbenzene	0.579	0.557	3.8	99	-0.02
65	tert-Butylbenzene	2.008	1.871	6.8	101	-0.02
66 T	Benzyl Chloride	0.153	0.126	17.6	77	-0.02
67	sec-Butylbenzene	2.872	2.731	4.9	103	-0.02
68 S	1-Bromo-4-Fluorobenzene	0.769	0.781	-1.6	96	-0.02
69	p-Isopropyltoluene	2.285	2.209	3.3	102	-0.02
70	n-Butylbenzene	2.332	2.294	1.6	104	-0.02
71	2-Chlorotoluene	1.701	1.623	4.6	100	-0.02
72 T	4-Ethyltoluene	1.799	1.735	3.6	100	-0.02
73 T	1,3,5-Trimethylbenzene	1.560	1.474	5.5	100	-0.02
74 T	1,2,4-Trimethylbenzene	1.757	1.627	7.4	104	-0.02
75 T	1,3-Dichlorobenzene	1.011	0.951	5.9	102	-0.02
76 T	1,4-Dichlorobenzene	1.004	0.955	4.9	104	-0.02
77 T	1,2-Dichlorobenzene	0.981	0.939	4.3	105	-0.02
78 T	Hexachloro-1,3-Butadiene	0.764	0.673	11.9	99	-0.02
79 T	Naphthalene	1.205	1.484	-23.2	101	-0.02
80 T	Naphthalene,2-methyl-	0.330	0.552	-67.3#	92	-0.02
81 T	1,2,4-Trichlorobenzene	0.671	0.679	-1.2	99	-0.02

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
 Data File : VL042076.D
 Acq On : 03 Mar 2025 14:49
 Operator : SY/MD
 Sample : VL0303ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0303ABL01

Quant Time: Mar 04 00:17:34 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	2.787	49	156551	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.959	114	349743	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.882	117	302717	10.000	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.377	95	224142	9.624	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.200%

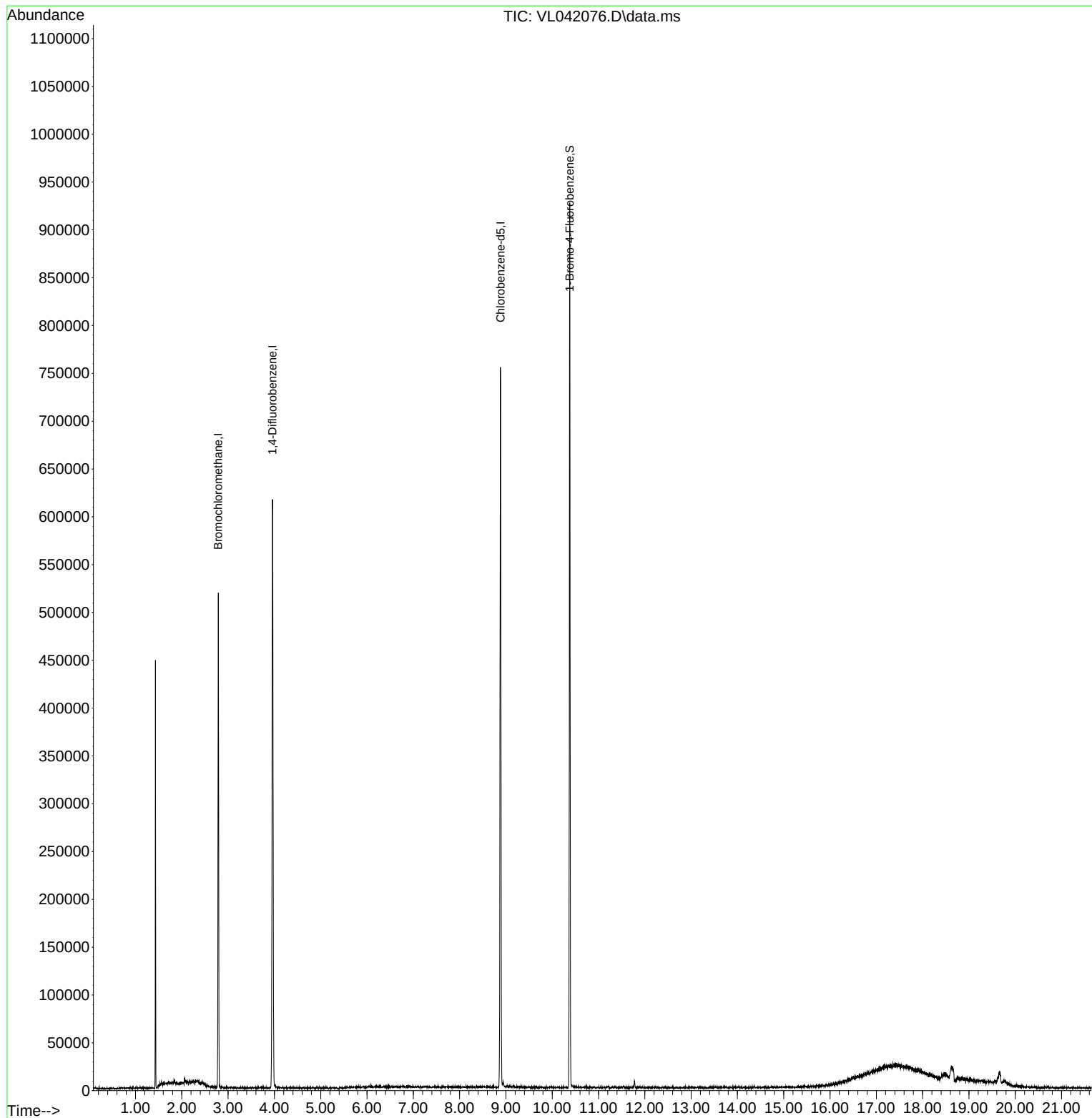
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
Data File : VL042076.D
Acq On : 03 Mar 2025 14:49
Operator : SY/MD
Sample : VL0303ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0303ABL01

Quant Time: Mar 04 00:17:34 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\VL030325\
 Data File : VL042077.D
 Acq On : 03 Mar 2025 15:19
 Operator : SY/MD
 Sample : VL0303ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0303ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/04/2025
 Supervised By :Mahesh Dadoda 03/05/2025

Quant Time: Mar 04 00:17:54 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)

Internal Standards						
1) Bromochloromethane	2.787	49	157956	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.959	114	356972	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.882	117	309763	10.000	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 242622 10.181 ppbv -0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	174930	10.650	ppbv	99
3) Chlorodifluoromethane	1.476	51	222297	9.683	ppbv	100
4) Chloromethane	1.531	50	62156	10.233	ppbv	97
5) Vinyl Chloride	1.580	62	59385	10.336	ppbv	100
6) Bromomethane	1.667	94	28458	10.402	ppbv	97
7) Chloroethane	1.703	64	24205	10.368	ppbv	93
8) Dichlorotetrafluoroethane	1.554	85	142918	10.584	ppbv	98
9) Propene	1.483	41	90270	9.652	ppbv	98
10) Heptane	4.978	43	279114	9.585	ppbv	97
11) Trichlorofluoromethane	1.878	101	191850	11.657	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	147601	11.243	ppbv	95
13) Ethanol	1.722	45	3648	6.145	ppbv	97
14) Bromoethene	1.780	108	48227	10.403	ppbv	100
15) Acetone	1.835	43	137515	9.858	ppbv	100
16) 1,3-Butadiene	1.609	39	64593	9.950	ppbv	97
17) tert-Butyl alcohol	2.039	59	167124	9.576	ppbv	100
18) 1,1-Dichloroethene	2.033	96	61659	10.394	ppbv	91
19) Isopropyl Alcohol	1.887	45	78936	9.851	ppbv	98
20) Methylene Chloride	2.062	84	52065	9.868	ppbv	96
21) Allyl Chloride	2.098	41	105683	10.486	ppbv	99
22) trans-1,2-Dichloroethene	2.340	96	70753	10.232	ppbv	93
23) Vinyl Acetate	2.463	43	74937	7.640	ppbv	98
24) 1,1-Dichloroethane	2.408	63	137183	10.661	ppbv	100
25) Ethyl Acetate	2.836	43	548497	9.824	ppbv	99
26) Hexane	2.826	57	207965	9.213	ppbv	92
27) Carbon Disulfide	2.149	76	168252	10.996	ppbv	99
28) Methyl tert-Butyl Ether	2.441	73	94112	8.374	ppbv	100
29) Chloroform	2.849	83	286765	9.439	ppbv	97
30) Cyclohexane	3.858	84	163145	8.905	ppbv	91
31) cis-1,2-Dichloroethene	2.722	61	199200	9.322	ppbv	97
32) 1,1,1-Trichloroethane	3.370	97	269140	9.133	ppbv	95
34) 2-Butanone	2.557	43	313084	11.258	ppbv	95
35) Carbon Tetrachloride	3.765	117	268731	10.917	ppbv	96
36) Benzene	3.658	78	390842	10.459	ppbv	96
37) 1,2-Dichloroethane	3.218	62	227067	10.959	ppbv	98
38) Trichloroethene	4.551	130	148971	9.762	ppbv	94
39) 1,2-Dichloropropane	4.315	63	151311	10.668	ppbv	96
40) 1,4-Dioxane	4.587	88	67241	10.385	ppbv #	91
41) Tetrahydrofuran	3.056	42	183578	11.172	ppbv	93
42) Bromodichloromethane	4.490	83	302583	10.839	ppbv	100
43) Methyl Methacrylate	4.881	69	150871	10.338	ppbv	91
44) 2,2,4-Trimethylpentane	4.638	57	718377	10.892	ppbv	98
45) t-1,3-Dichloropropene	6.415	75	139814	9.643	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
 Data File : VL042077.D
 Acq On : 03 Mar 2025 15:19
 Operator : SY/MD
 Sample : VL0303ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0303ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/04/2025
 Supervised By :Mahesh Dadoda 03/05/2025

Quant Time: Mar 04 00:17:54 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 : 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	189075	10.077	ppbv	95
47) 1,1,2-Trichloroethane	6.587	97	146747	10.191	ppbv	97
48) Dibromochloromethane	7.390	129	229765	10.188	ppbv	99
49) Bromoform	9.487	173	205188	10.477	ppbv	98
50) 4-Methyl-2-Pentanone	5.752	43	434273	12.074	ppbv	95
51) 2-Hexanone	7.438	43	347904	14.054	ppbv #	96
52) Tetrachloroethene	8.225	164	128803	10.068	ppbv	97
53) Toluene	6.933	91	428586	10.262	ppbv	97
54) 1,2-Dibromoethane	7.652	107	199250	10.235	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.927	131	181131	10.346	ppbv	99
57) Chlorobenzene	8.924	112	328409	10.225	ppbv	98
58) Ethyl Benzene	9.357	91	596825	10.462	ppbv	100
59) m/p-Xylene	9.552	91	977538m	21.533	ppbv	
60) o-Xylene	9.966	91	488769	10.710	ppbv	100
61) Styrene	9.872	104	226533	10.558	ppbv	99
62) Isopropylbenzene	10.542	105	733758	10.735	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.963	83	327069	10.882	ppbv	99
64) n-propylbenzene	10.992	120	192573	10.741	ppbv	97
65) tert-Butylbenzene	11.532	119	643195	10.340	ppbv	98
66) Benzyl Chloride	11.617	91	39375	8.295	ppbv	98
67) sec-Butylbenzene	11.769	105	940060	10.567	ppbv	100
69) p-Isopropyltoluene	11.927	119	759761	10.734	ppbv	100
70) n-Butylbenzene	12.283	91	795433	11.010	ppbv	99
71) 2-Chlorotoluene	10.901	91	553780	10.510	ppbv	99
72) 4-Ethyltoluene	11.128	105	592316	10.629	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	508702	10.524	ppbv	98
74) 1,2,4-Trimethylbenzene	11.539	105	557804	10.248	ppbv	97
75) 1,3-Dichlorobenzene	11.610	146	328061	10.473	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	328671	10.568	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	324906	10.688	ppbv	100
78) Hexachloro-1,3-Butadiene	13.886	225	232449	9.827	ppbv	99
79) Naphthalene	13.517	128	503470	13.490	ppbv	98
80) Naphthalene,2-methyl-	14.462	142	184155	18.031	ppbv	97
81) 1,2,4-Trichlorobenzene	13.442	180	227832	10.954	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
 Data File : VL042092.D
 Acq On : 04 Mar 2025 08:07
 Operator : SY/MD
 Sample : QC022625 CAN 10682
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC022625 CAN 10682

Quant Time: Mar 04 08:42:00 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	169978	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.959	114	377989	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.882	117	312700	10.000	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	231208	9.611	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.100%

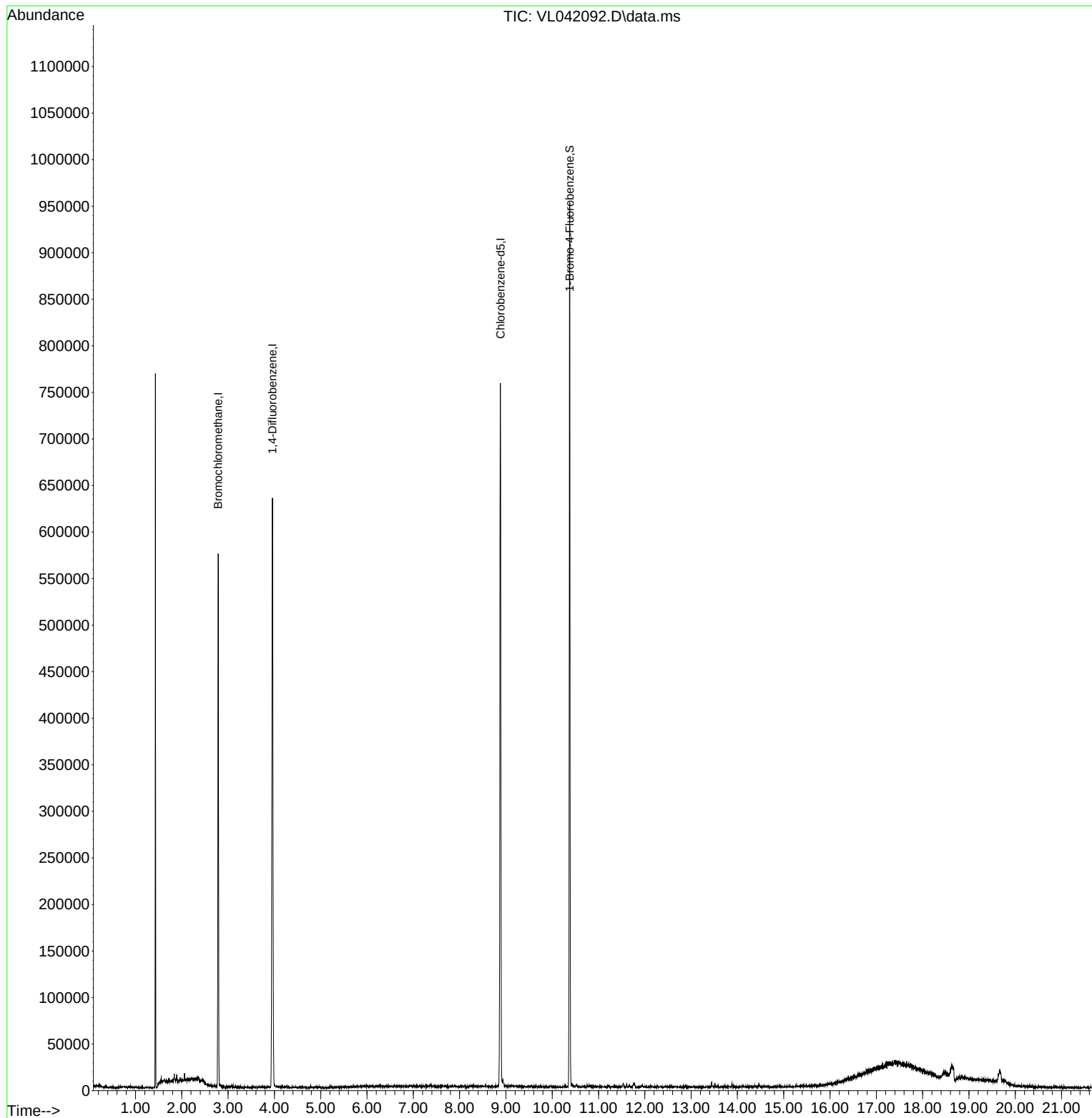
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
Data File : VL042092.D
Acq On : 04 Mar 2025 08:07
Operator : SY/MD
Sample : QC022625 CAN 10682
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC022625 CAN 10682

Quant Time: Mar 04 08:42:00 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



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	VSTDIC010	VL042041.D	25 Feb 2025 08:56	SY/MD	Ok,M
3	VSTDIC002	VL042042.D	25 Feb 2025 09:29	SY/MD	Ok,M
4	VSTDIC001	VL042043.D	25 Feb 2025 10:00	SY/MD	Ok,M
5	VSTDIC0.5	VL042044.D	25 Feb 2025 10:31	SY/MD	Ok,M
6	VSTDIC0.1	VL042045.D	25 Feb 2025 11:03	SY/MD	Ok,M
7	VSTDIC0.03	VL042046.D	25 Feb 2025 11:34	SY/MD	Ok,M
8	VSTDIC015	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 # VL022625

Review By	Semsettin Yesilyurt	Review On	2/27/2025 10:12:04 AM		
Supervise By	Maresh Dadoda	Supervise On	2/27/2025 12:13:24 PM		
SubDirectory	VL022625	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	VL042049.D	26 Feb 2025 07:46	SY/MD	Ok
2	VSTDCCC010	VL042050.D	26 Feb 2025 08:38	SY/MD	Ok,M
3	VL0226ABL01	VL042051.D	26 Feb 2025 09:20	SY/MD	Ok
4	QC021725 CAN 10271	VL042052.D	26 Feb 2025 10:04	SY/MD	Ok
5	QC022525 CAN 10795	VL042053.D	26 Feb 2025 10:36	SY/MD	Ok
6	VL0226ABS01	VL042054.D	26 Feb 2025 11:07	SY/MD	Ok,M
7	Q1419-02	VL042055.D	26 Feb 2025 11:40	SY/MD	Ok,M
8	Q1430-05	VL042056.D	26 Feb 2025 12:14	SY/MD	Ok,M
9	Q1430-05DUP	VL042057.D	26 Feb 2025 12:48	SY/MD	Ok,M
10	Q1430-06	VL042058.D	26 Feb 2025 13:21	SY/MD	Ok,M
11	Q1430-06DL	VL042059.D	26 Feb 2025 13:52	SY/MD	Not Ok
12	Q1419-01	VL042060.D	26 Feb 2025 14:24	SY/MD	Dilution
13	Q1419-01DL	VL042061.D	26 Feb 2025 14:55	SY/MD	Not Ok
14	Q1419-01DL	VL042062.D	26 Feb 2025 15:27	SY/MD	Ok,M
15	Q1419-01DL2	VL042063.D	26 Feb 2025 15:58	SY/MD	Not Ok
16	VSTDCCC010	VL042064.D	26 Feb 2025 16:29	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL030325

Review By	Semsettin Yesilyurt	Review On	3/4/2025 4:05:35 PM
Supervise By	Maresh Dadoda	Supervise On	3/5/2025 12:17:04 PM
SubDirectory	VL030325	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL022525AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2587		
Initial Calibration Stds	AP2582,AP2584,AP2585		
CCC	AP2582		
Internal Standard/PEM	AP2587		
ICV/I.BLK	AP2586		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042074.D	03 Mar 2025 11:45	SY/MD	Ok
2	VSTDCCC010	VL042075.D	03 Mar 2025 12:15	SY/MD	Ok,M
3	VL0303ABL01	VL042076.D	03 Mar 2025 14:49	SY/MD	Ok
4	VL0303ABS01	VL042077.D	03 Mar 2025 15:19	SY/MD	Ok,M
5	QC022725 CAN 10331	VL042078.D	03 Mar 2025 15:52	SY/MD	Ok
6	Q1430-03	VL042079.D	03 Mar 2025 16:23	SY/MD	Ok,M
7	Q1430-03DL	VL042080.D	03 Mar 2025 16:53	SY/MD	Not Ok
8	Q1430-02	VL042081.D	03 Mar 2025 17:24	SY/MD	Ok,M
9	Q1430-02DL	VL042082.D	03 Mar 2025 17:55	SY/MD	Not Ok
10	Q1430-04	VL042083.D	03 Mar 2025 18:26	SY/MD	Ok,M
11	Q1430-04DL	VL042084.D	03 Mar 2025 18:57	SY/MD	Not Ok
12	Q1430-01	VL042085.D	03 Mar 2025 19:28	SY/MD	Ok,M
13	Q1430-01DL	VL042086.D	03 Mar 2025 19:59	SY/MD	Not Ok
14	Q1430-01DUP	VL042087.D	03 Mar 2025 20:29	SY/MD	Ok,M
15	VIBLK	VL042088.D	03 Mar 2025 21:00	SY/MD	Ok
16	QC022625 CAN 10682	VL042089.D	03 Mar 2025 21:31	SY/MD	Not Ok
17	QC022625 CAN 10746	VL042090.D	03 Mar 2025 22:02	SY/MD	Ok
18	VL0303ABS02	VL042091.D	03 Mar 2025 22:33	SY/MD	Not Ok
19	QC022625 CAN 10682	VL042092.D	04 Mar 2025 08:07	SY/MD	Ok
20	VSTDCCC010	VL042093.D	04 Mar 2025 09:04	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

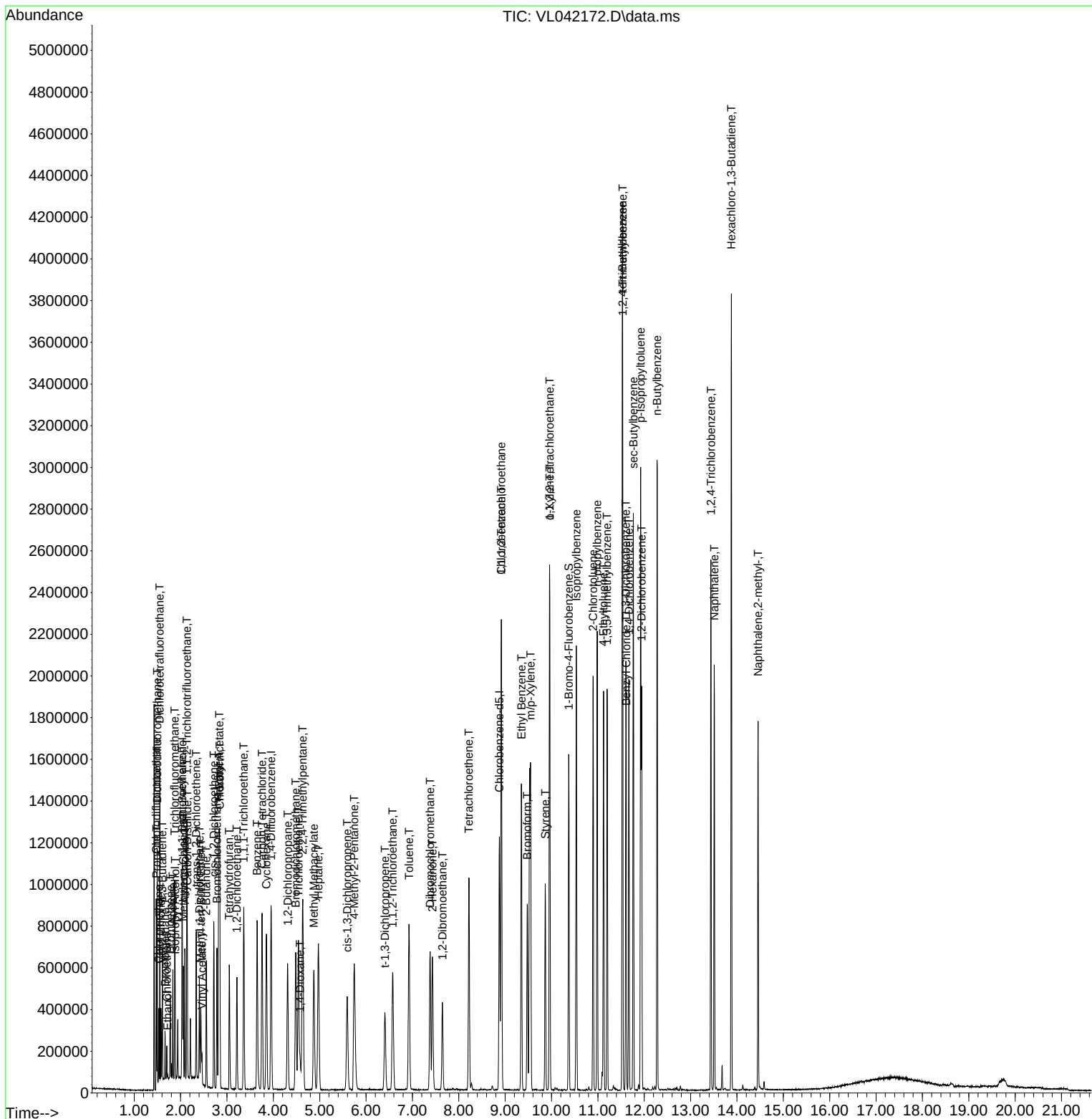
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 MSVOA_L
 ClientSampleId :
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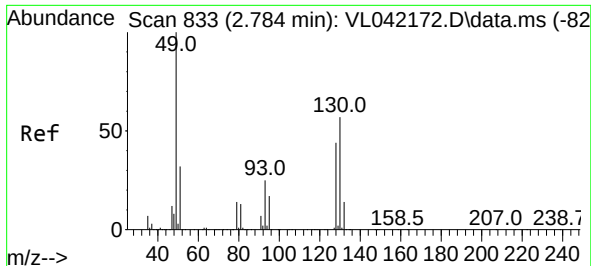
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	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

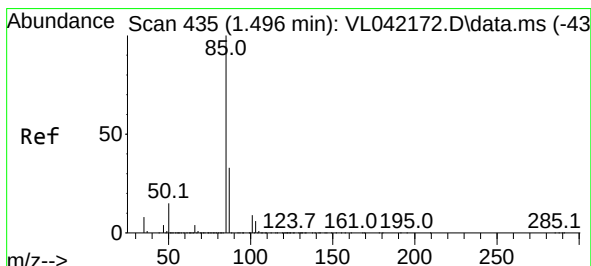
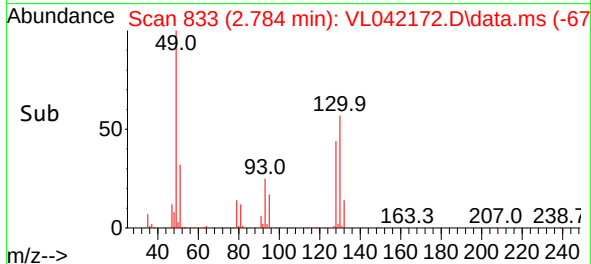
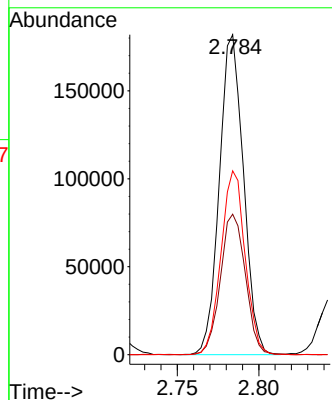
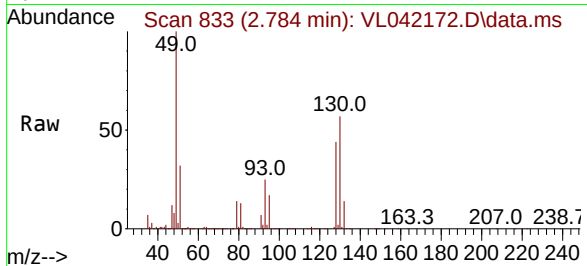




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.784 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

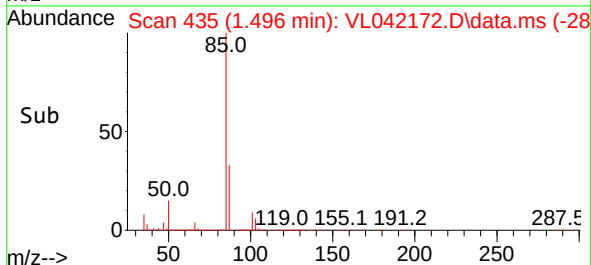
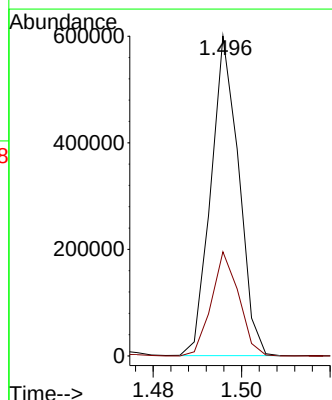
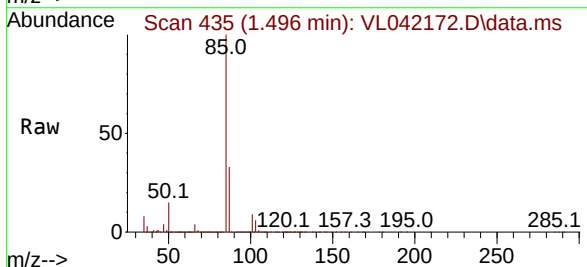
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

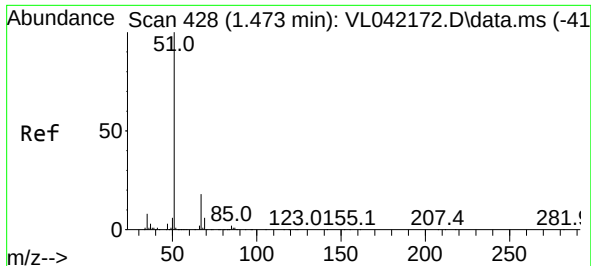
Tgt Ion: 49 Resp: 187002
 Ion Ratio Lower Upper
 49 100
 128 45.7 22.9 68.5
 130 57.6 28.8 86.4



#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

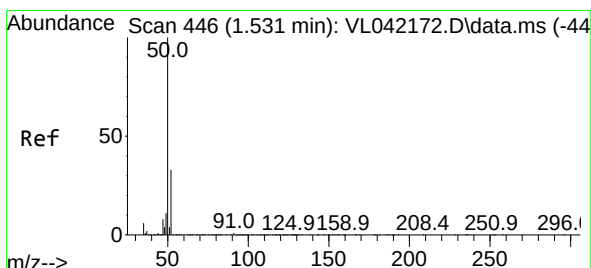
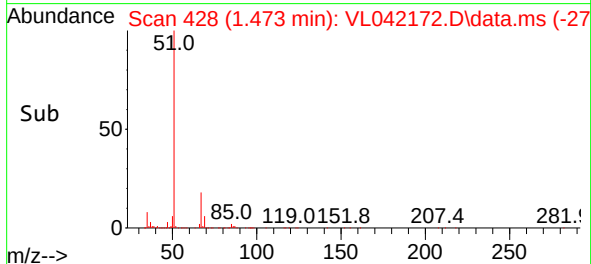
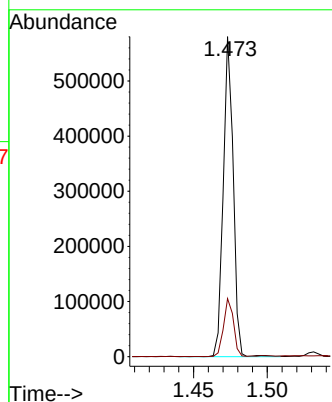
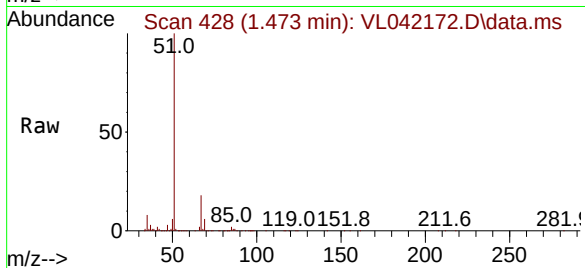




#3
Chlorodifluoromethane
Concen: 9.662 ppbv
RT: 1.473 min Scan# 428
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

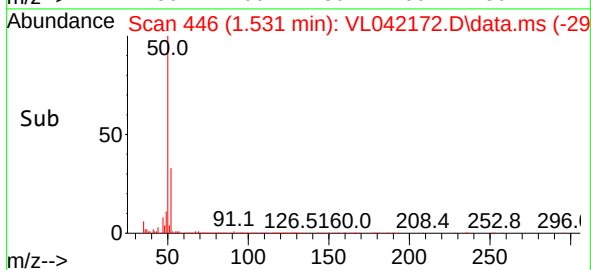
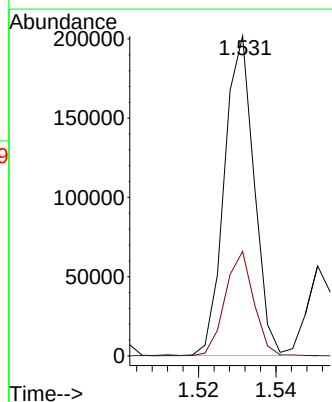
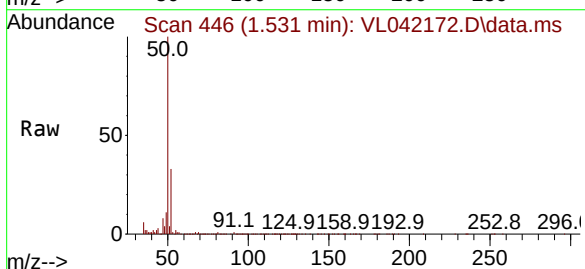
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MSVOA_L
ClientSampleId :
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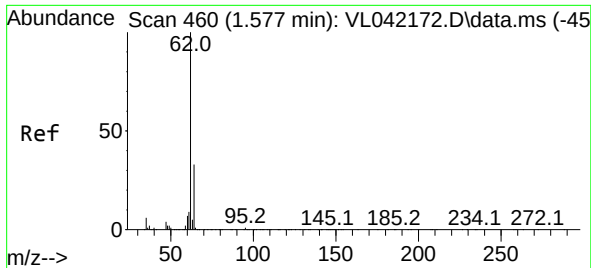
Tgt Ion: 51 Resp: 272522
Ion Ratio Lower Upper
51 100
67 18.8 15.0 22.6



#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

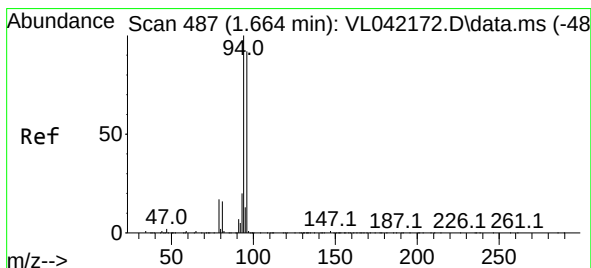
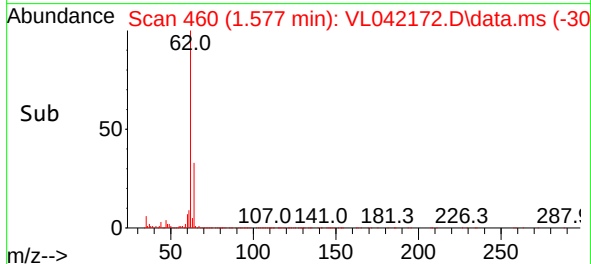
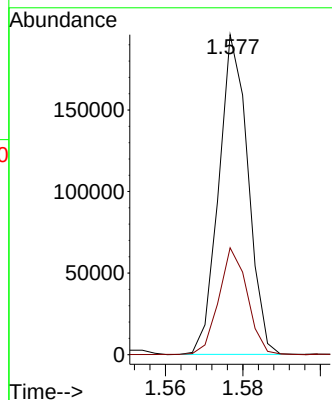
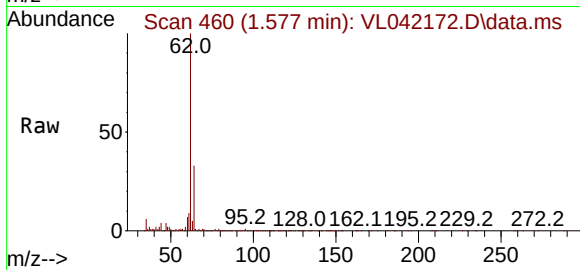




#5
 Vinyl Chloride
 Concen: 8.925 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

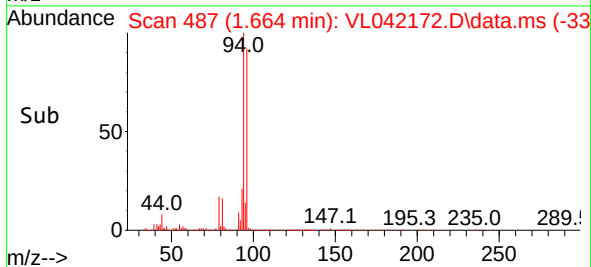
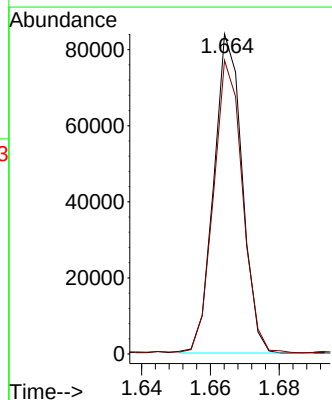
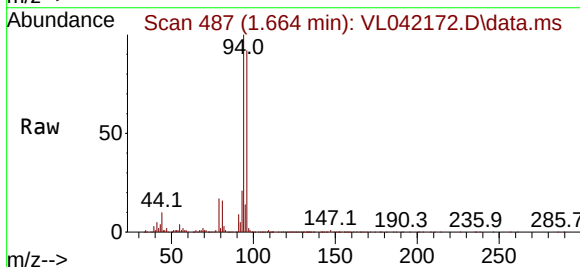
Instrument :
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 ClientSampleId :
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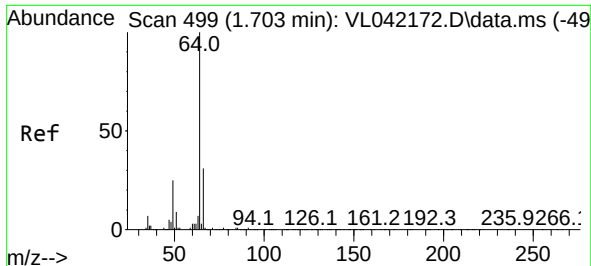
Tgt Ion: 62 Resp: 102699
 Ion Ratio Lower Upper
 62 100
 64 33.3 26.6 40.0



#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

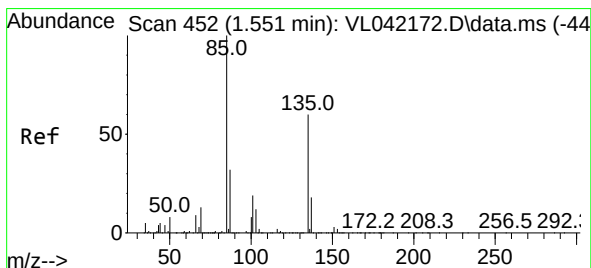
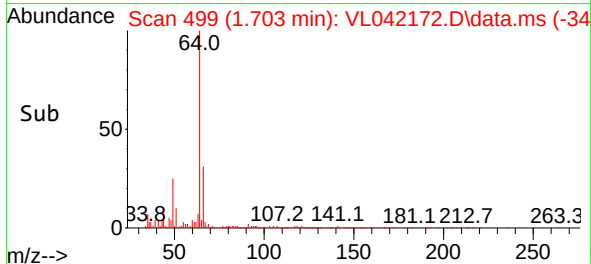
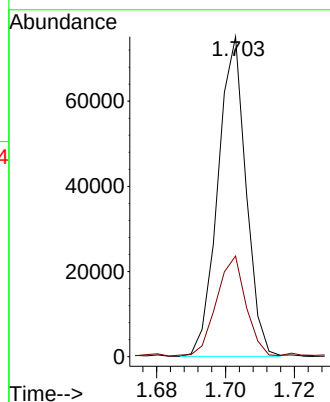
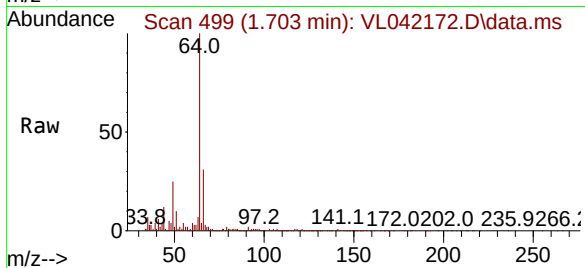




#7
Chloroethane
Concen: 9.387 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

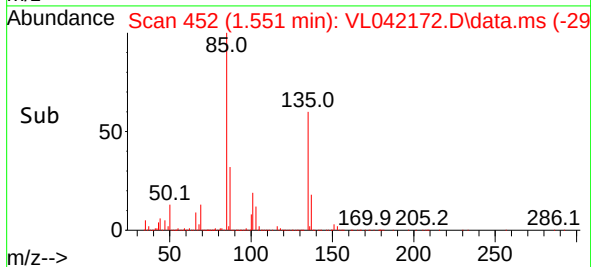
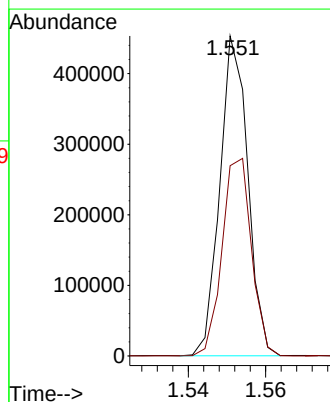
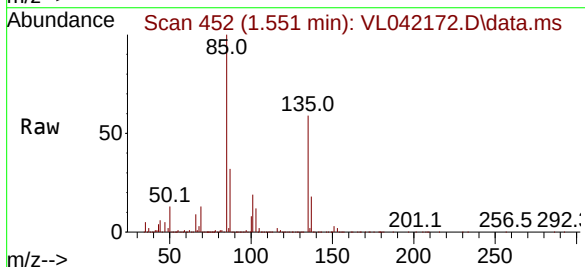
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

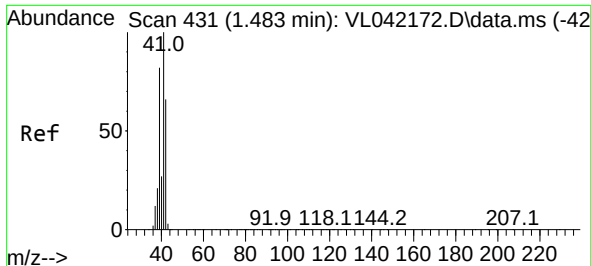
Tgt Ion: 64 Resp: 42516
Ion Ratio Lower Upper
64 100
66 31.5 25.2 37.8



#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 :

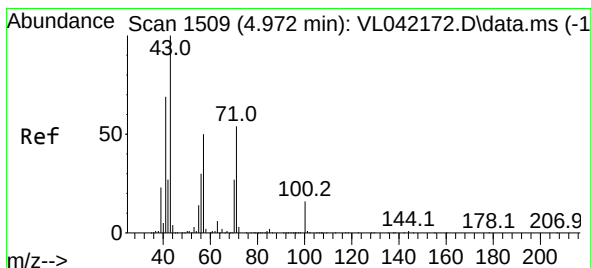
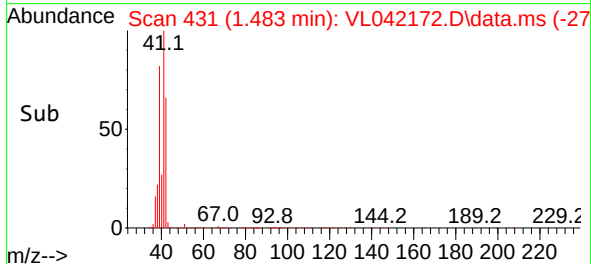
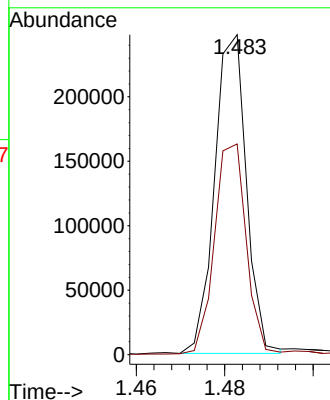
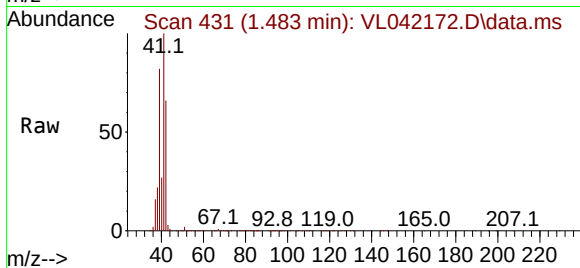
VSTDICCC010

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

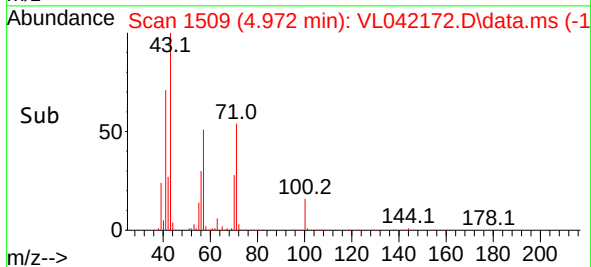
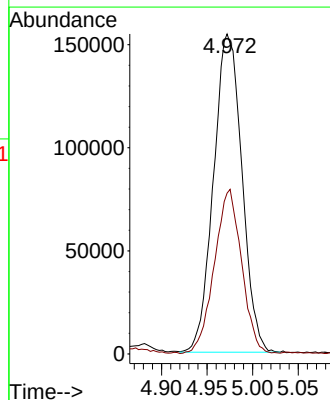
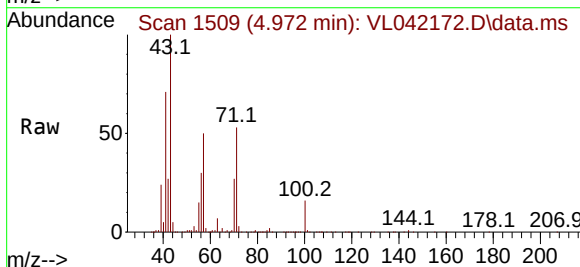
Acq: 27 Mar 2025 08:26

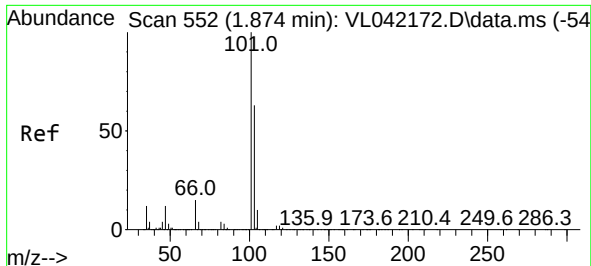
Tgt Ion: 43 Resp: 335086

Ion Ratio Lower Upper

43 100

57 49.3 39.4 59.2

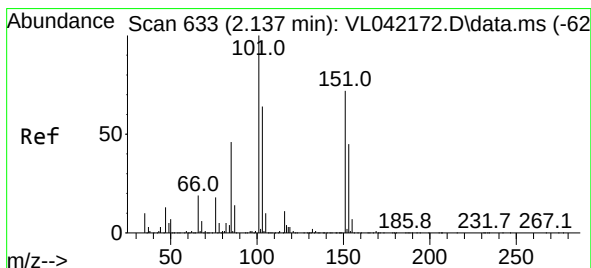
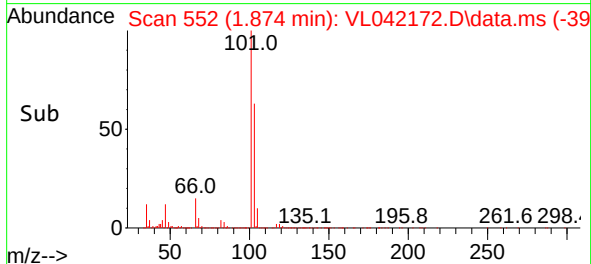
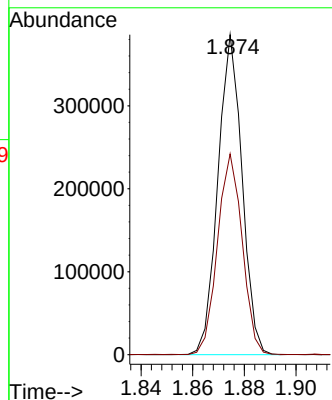
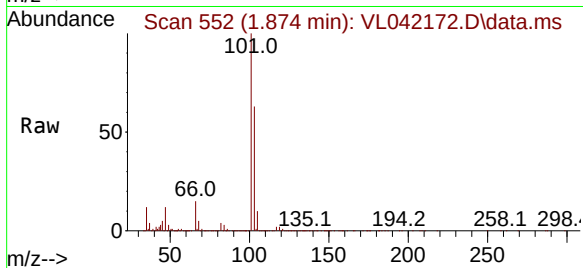




#11
 Trichlorofluoromethane
 Concen: 9.318 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

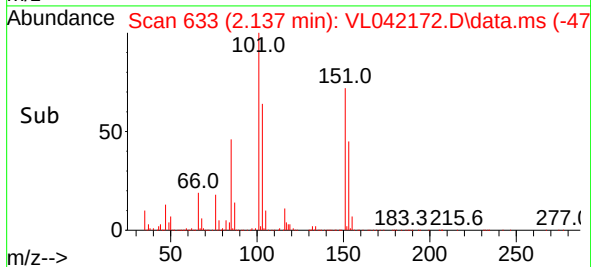
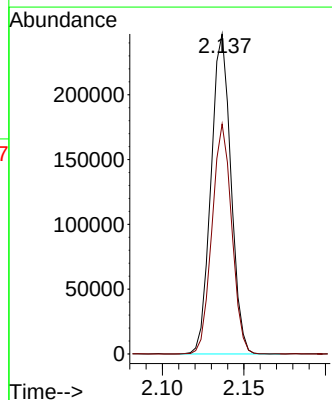
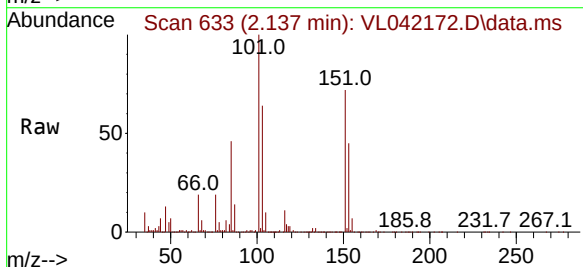
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

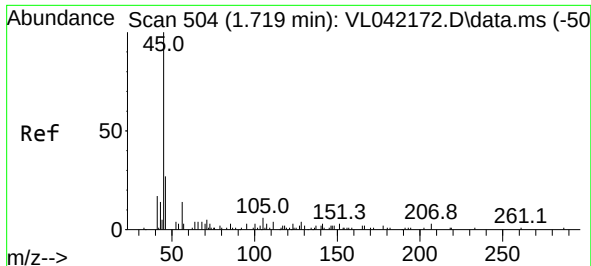
Tgt Ion:101 Resp: 250349
 Ion Ratio Lower Upper
 101 100
 103 62.7 50.2 75.2



#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

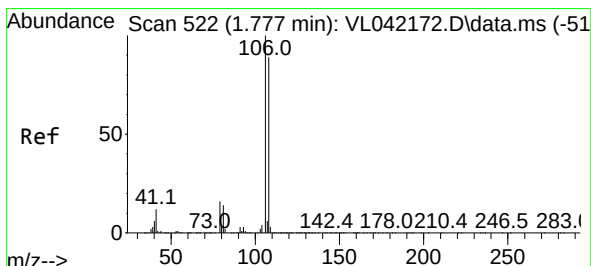
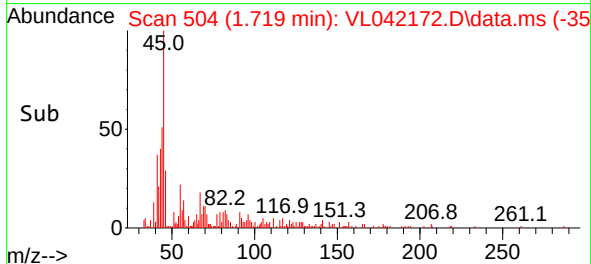
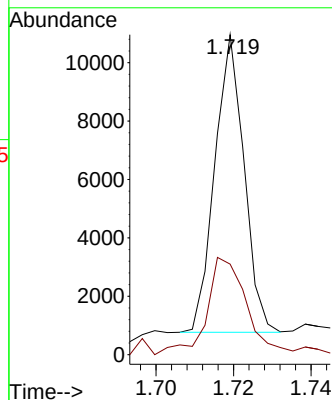
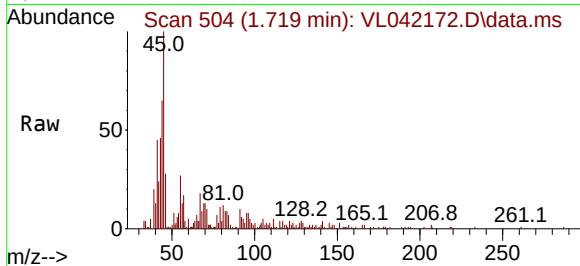




#13
Ethanol
Concen: 5.364 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

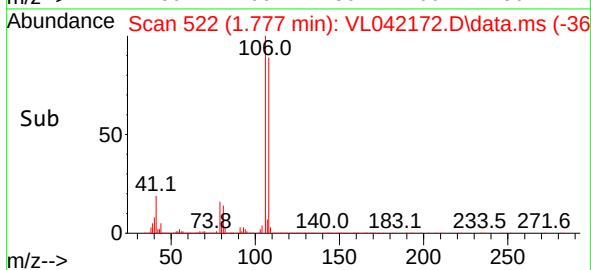
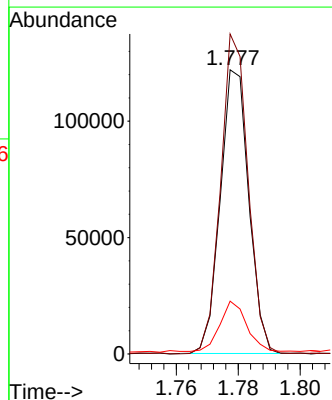
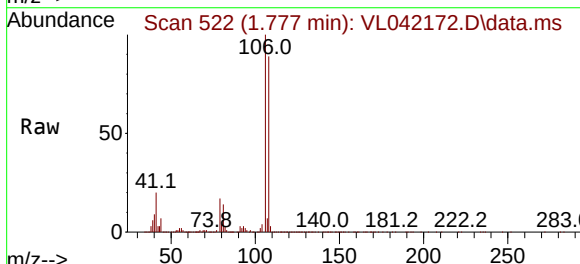
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

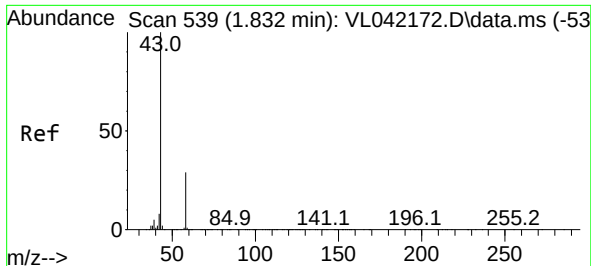
Tgt Ion: 45 Resp: 5338
Ion Ratio Lower Upper
45 100
46 50.5 20.2 80.8



#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 :

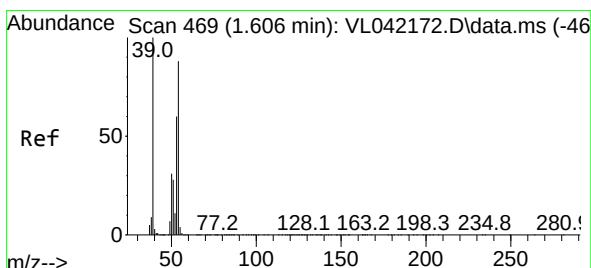
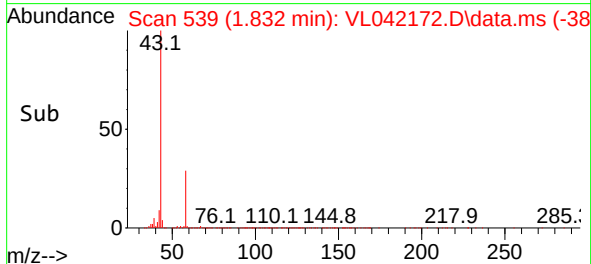
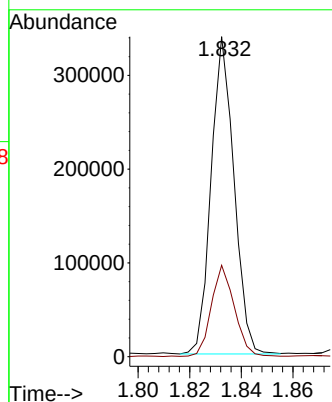
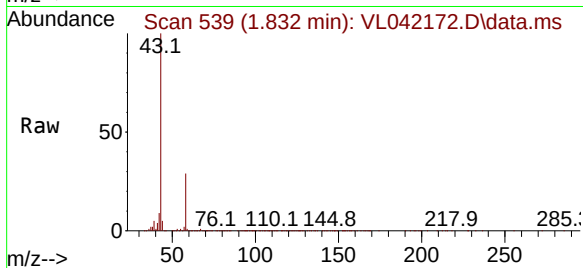
VSTDICCC010

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

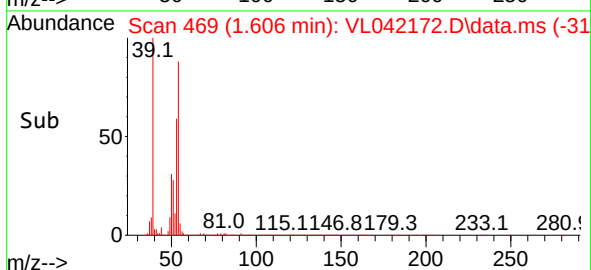
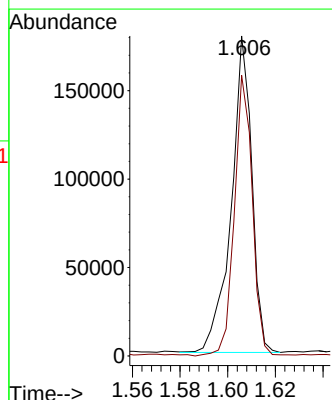
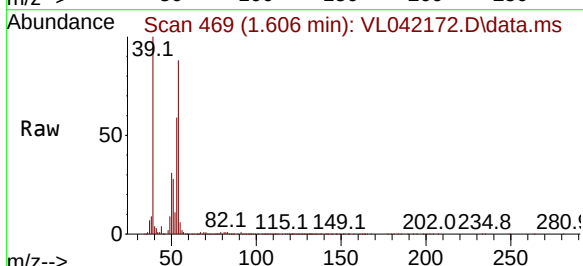
Acq: 27 Mar 2025 08:26

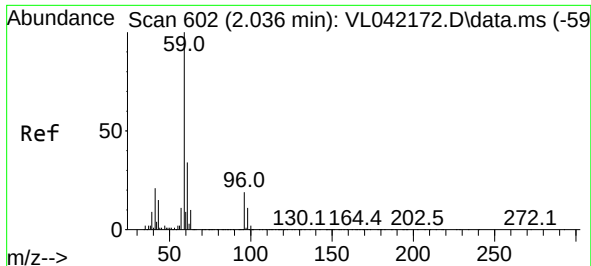
Tgt Ion: 39 Resp: 107104

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 :

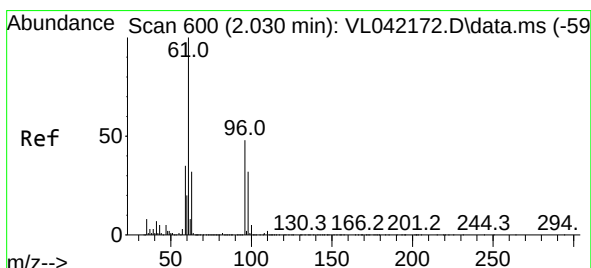
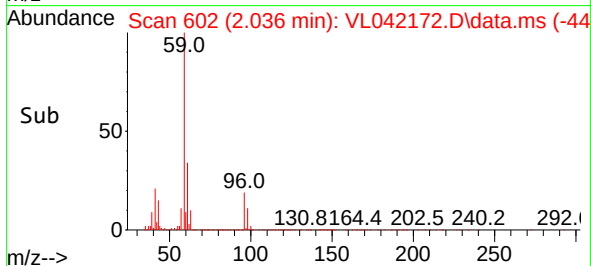
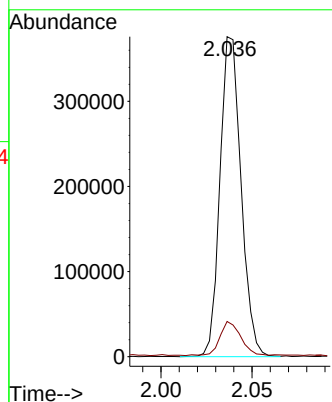
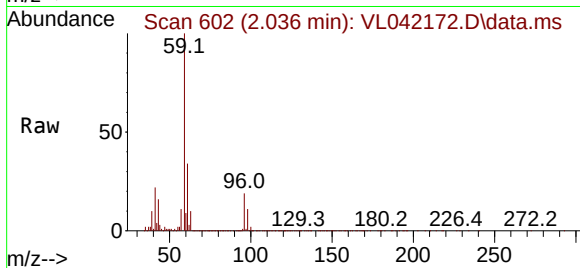
VSTDICCC010

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

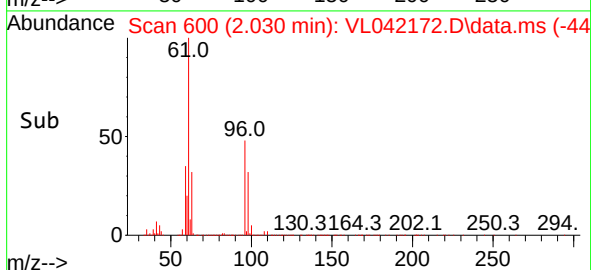
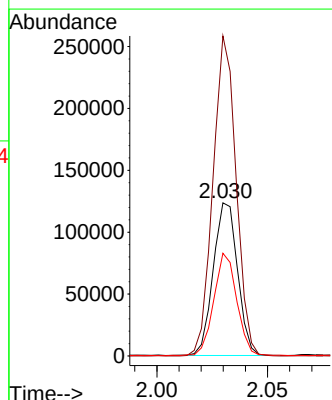
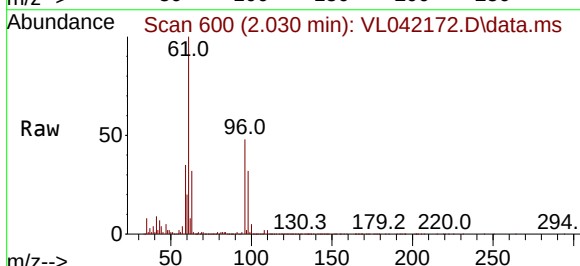
Tgt Ion: 96 Resp: 94236

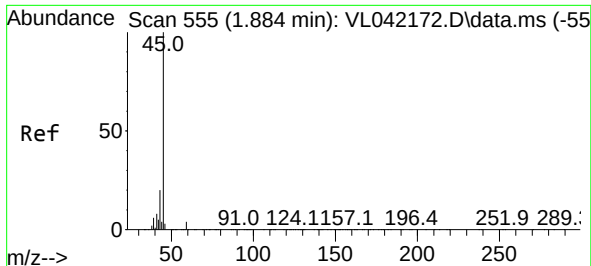
Ion Ratio Lower Upper

96 100

61 209.5 167.6 251.4

98 66.9 53.5 80.3

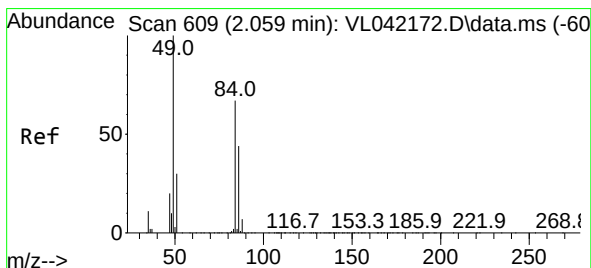
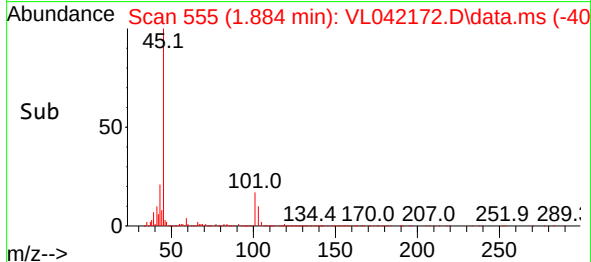
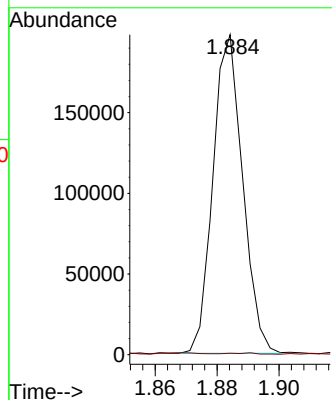
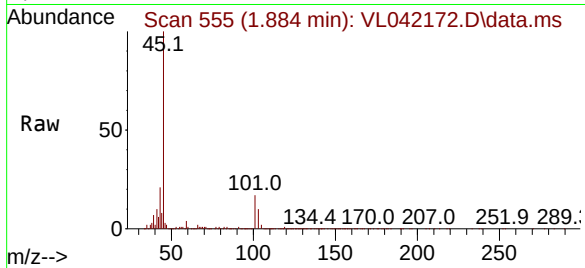




#19
Isopropyl Alcohol
Concen: 8.902 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

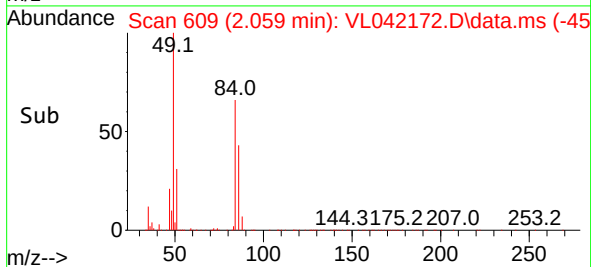
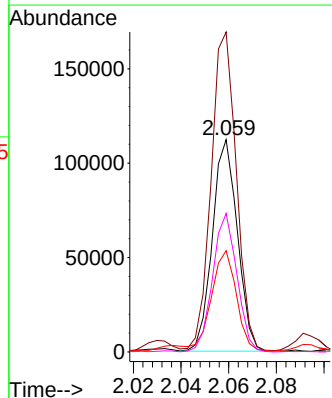
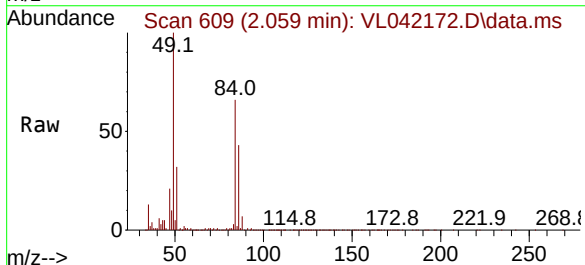
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

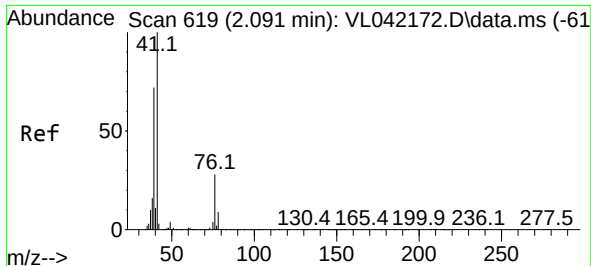
Tgt Ion: 45 Resp: 131359
Ion Ratio Lower Upper
45 100
58 46.1 36.9 55.3



#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

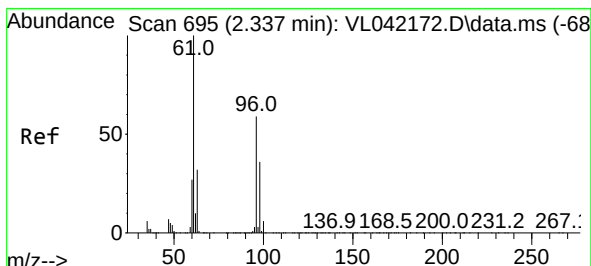
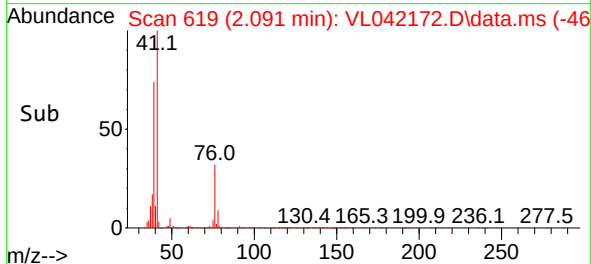
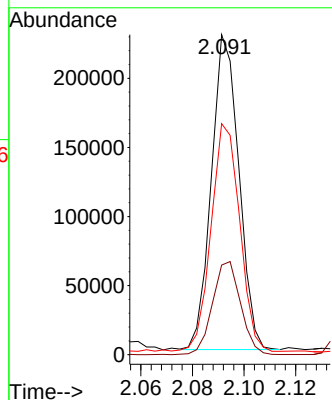
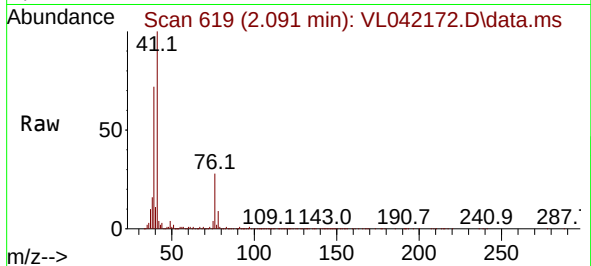




#21
 Allyl Chloride
 Concen: 9.141 ppbv
 RT: 2.091 min Scan# 619
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

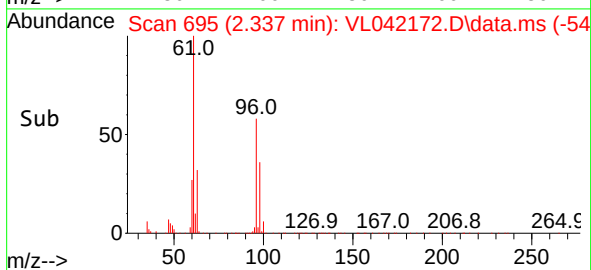
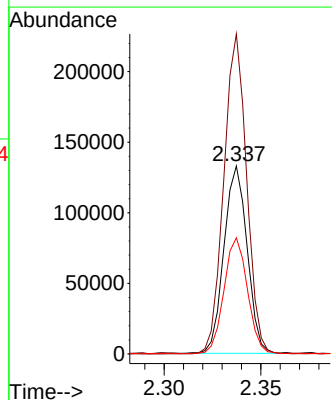
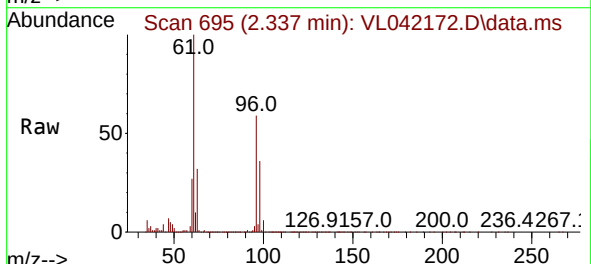
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

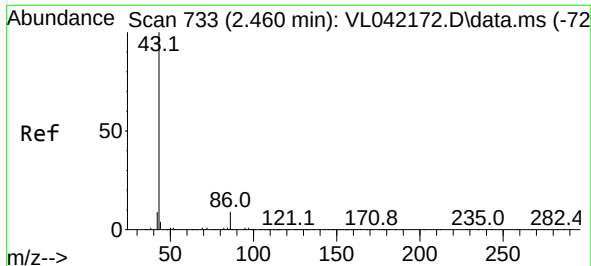
Tgt Ion: 41 Resp: 168602
 Ion Ratio Lower Upper
 41 100
 76 30.1 24.1 36.1
 39 76.4 61.1 91.7



#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

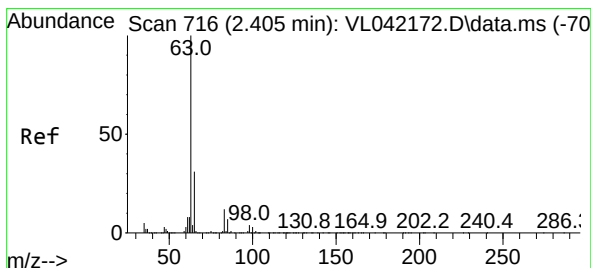
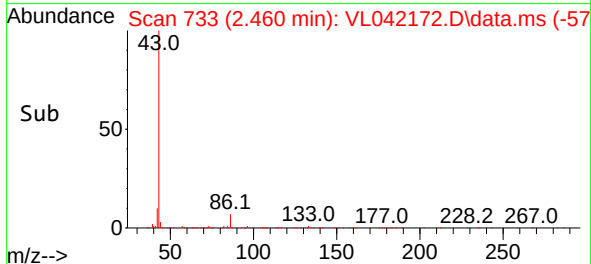
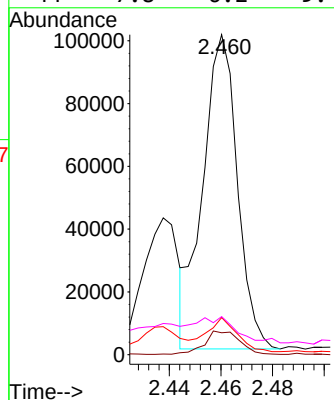
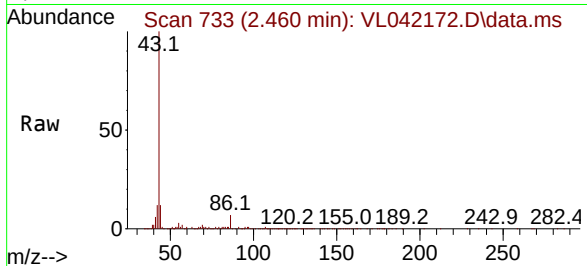




#23
 Vinyl Acetate
 Concen: 8.563 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

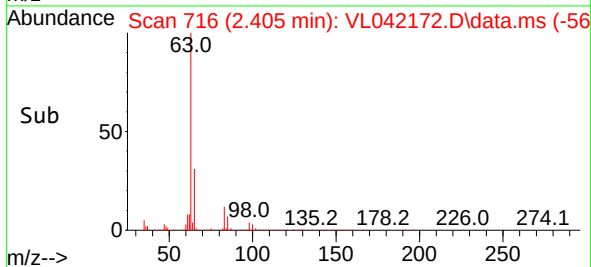
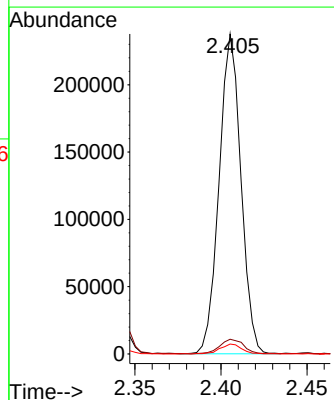
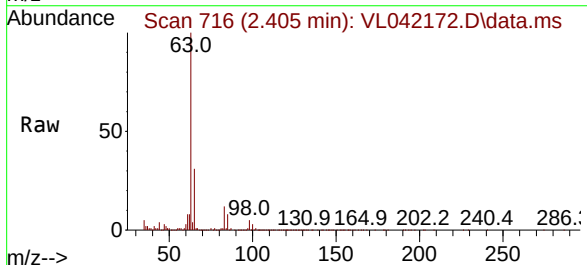
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

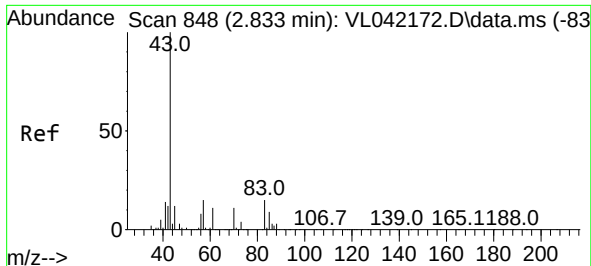
Tgt Ion:	43	Resp:	93080
Ion	Ratio	Lower	Upper
43	100		
86	6.9	5.5	8.3
42	10.8	8.6	13.0
44	7.8	6.2	9.4



#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

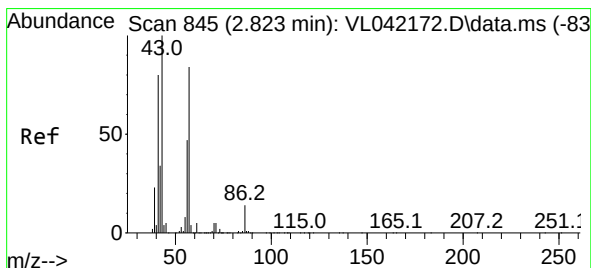
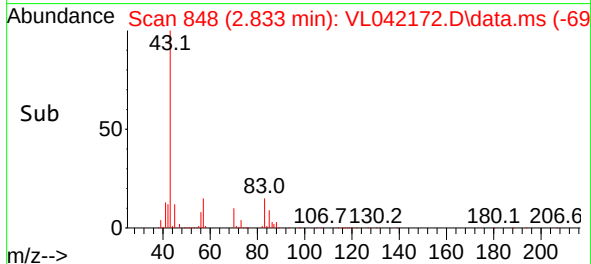
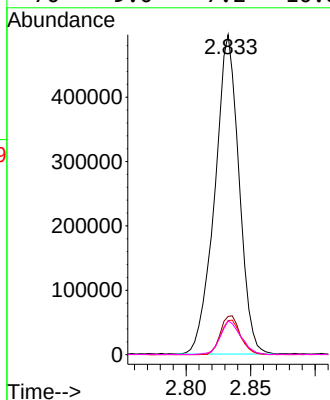
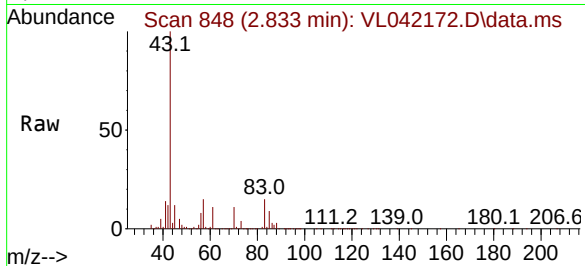




#25
Ethyl Acetate
Concen: 9.524 ppbv
RT: 2.833 min Scan# 848
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

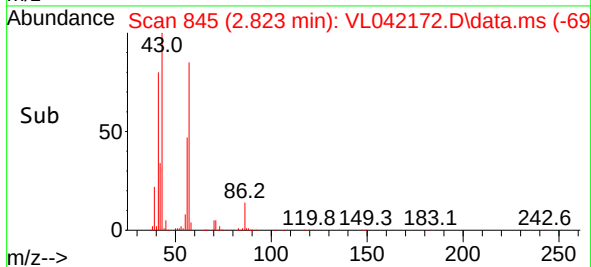
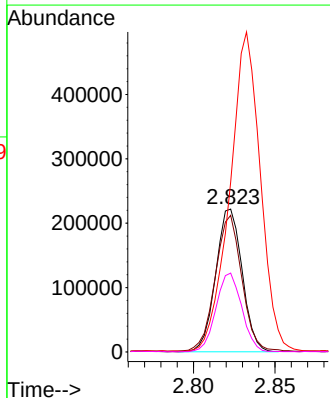
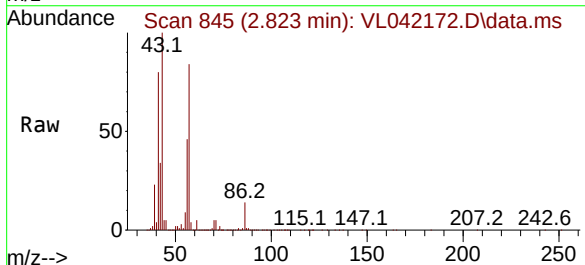
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

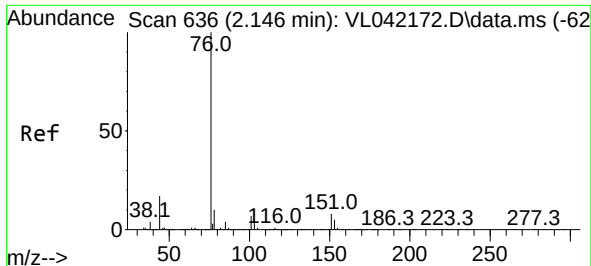
Tgt Ion: 43	Resp: 646501
Ion Ratio	Lower Upper
43 100	
45 10.2	8.2 12.2
61 9.1	7.3 10.9
70 9.0	7.2 10.8



#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
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

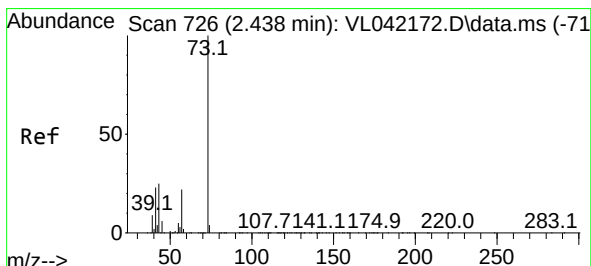
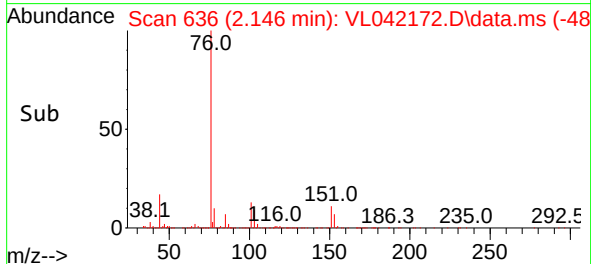
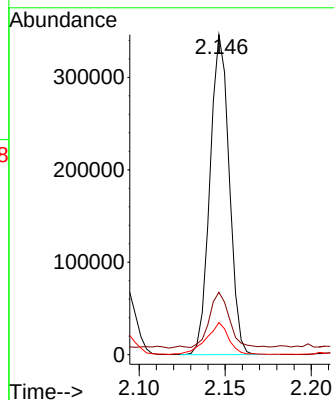
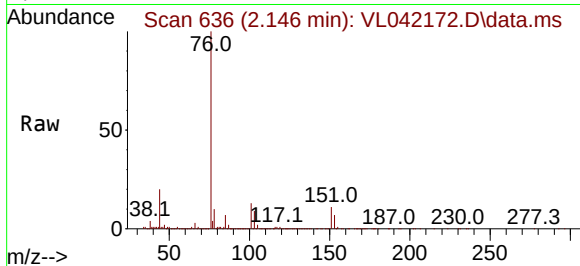




#27
Carbon Disulfide
Concen: 9.550 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

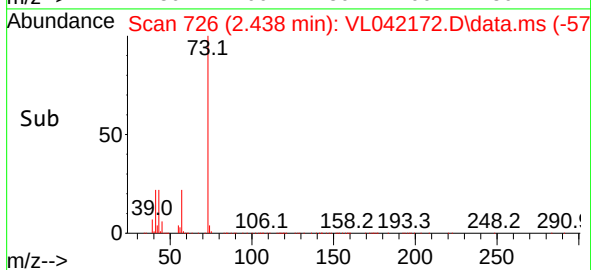
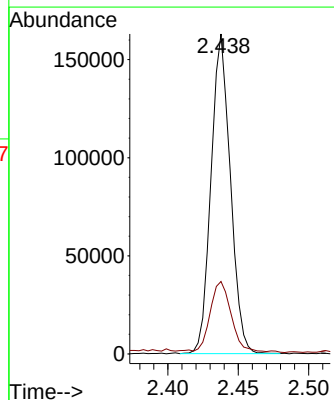
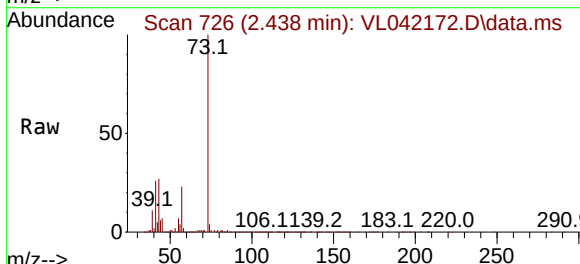
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

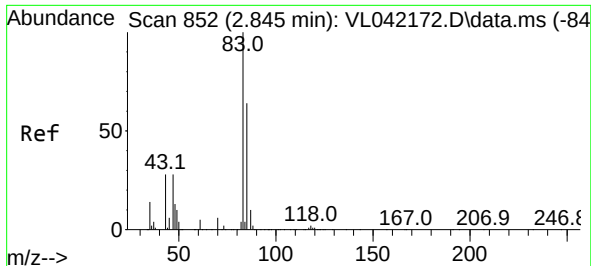
Tgt Ion: 76 Resp: 268507
Ion Ratio Lower Upper
76 100
44 18.4 14.7 22.1
78 11.6 9.3 13.9



#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 :

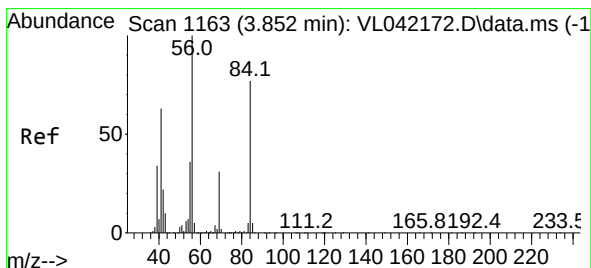
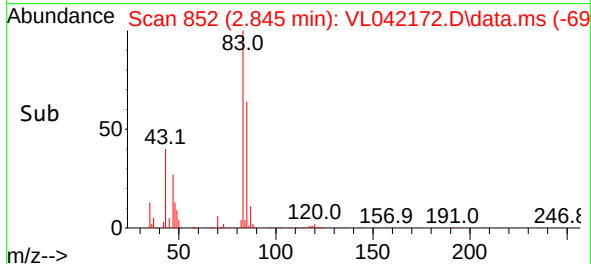
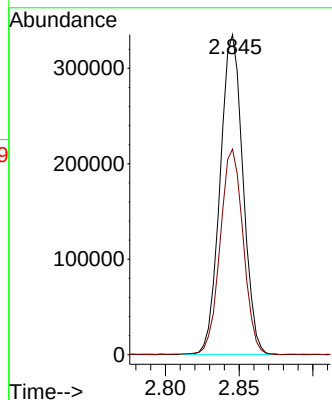
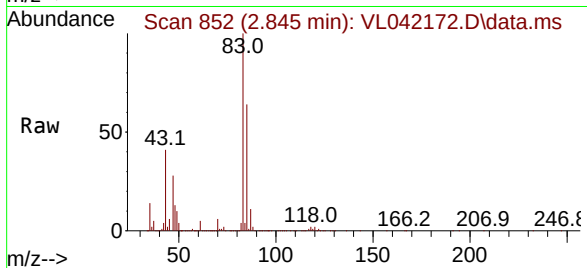
VSTDICCC010

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

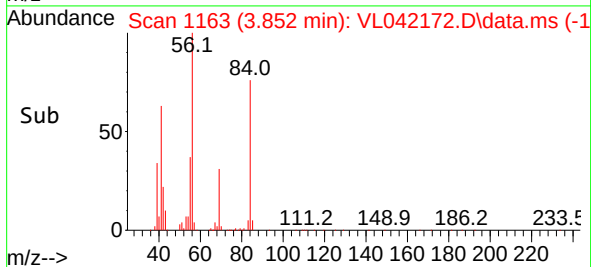
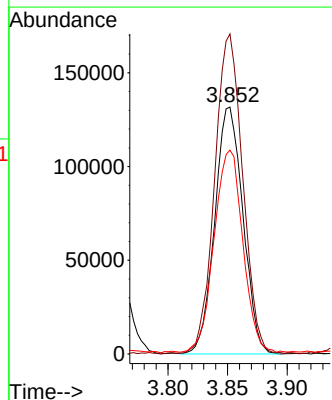
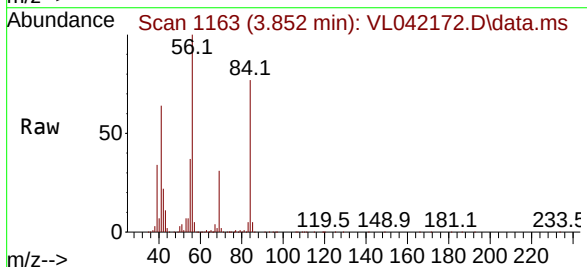
Tgt Ion: 84 Resp: 217215

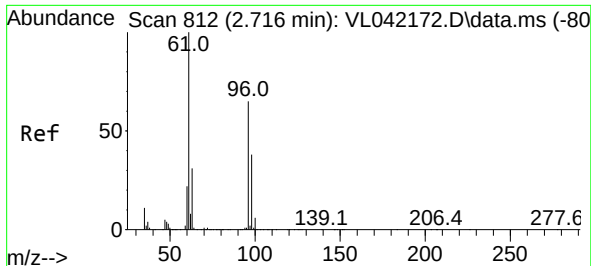
Ion Ratio Lower Upper

84 100

56 128.5 102.8 154.2

41 83.1 66.5 99.7

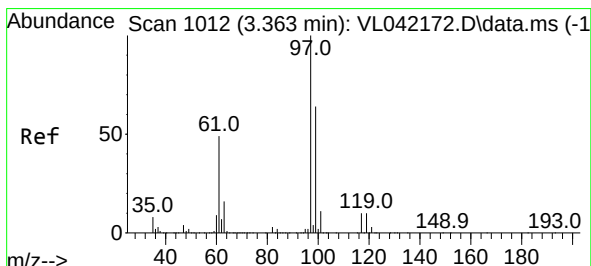
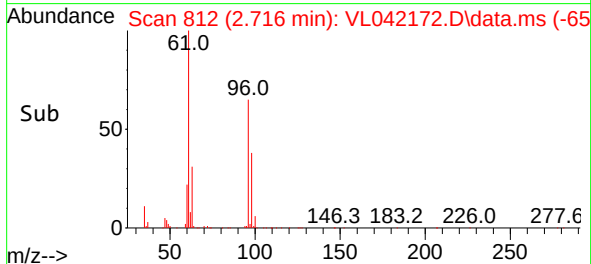
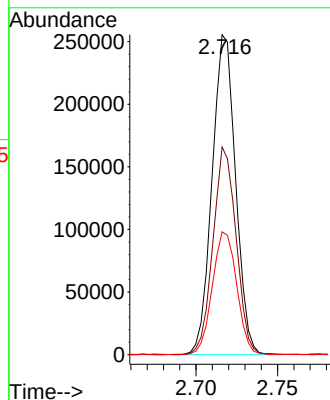
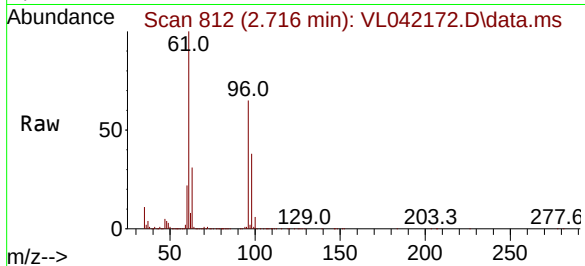




#31
 cis-1,2-Dichloroethene
 Concen: 9.634 ppbv
 RT: 2.716 min Scan# 812
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

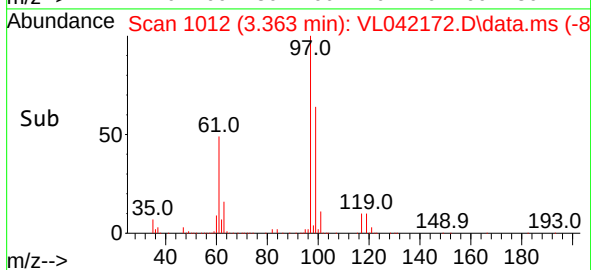
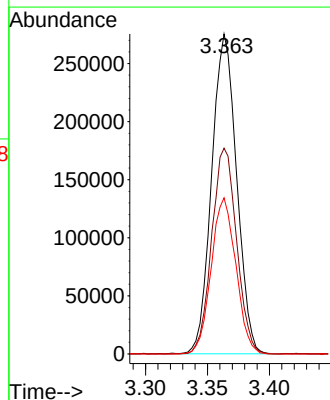
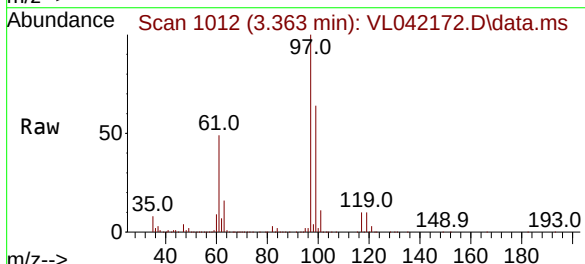
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

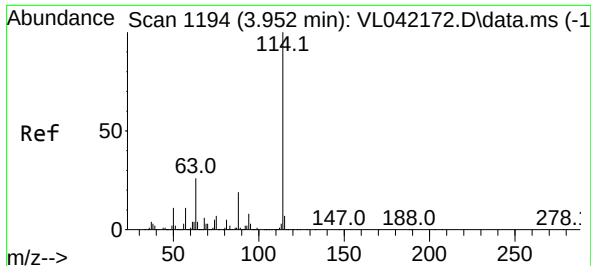
Tgt Ion: 61 Resp: 256425
 Ion Ratio Lower Upper
 61 100
 96 64.8 51.8 77.8
 98 38.3 30.6 46.0



#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

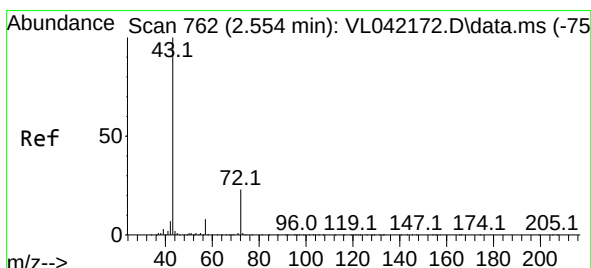
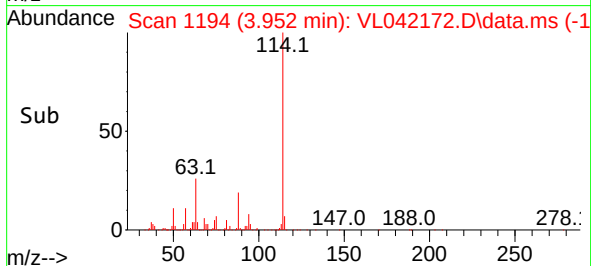
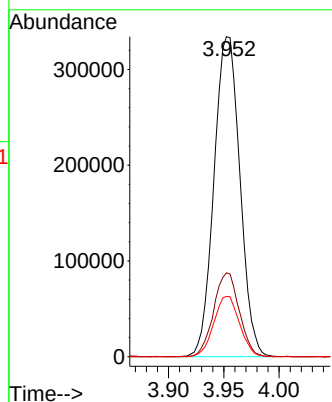
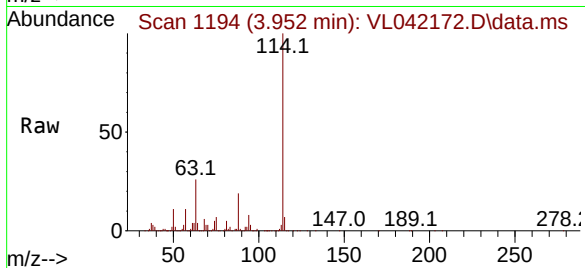
Tgt Ion:114 Resp: 545068

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

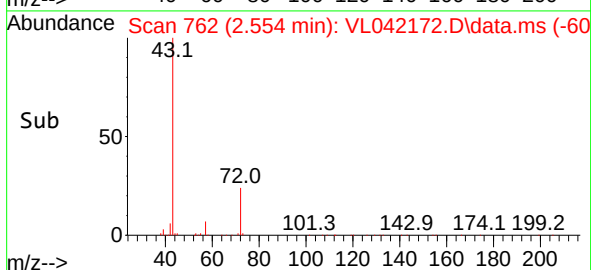
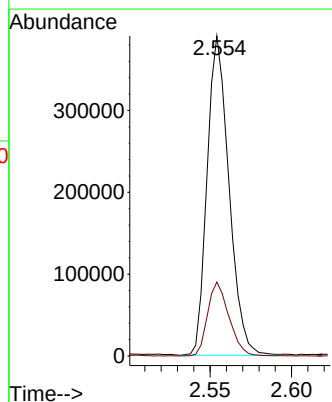
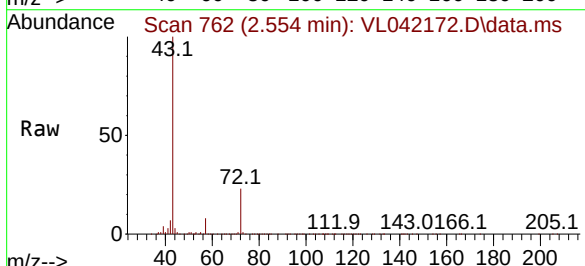
Acq: 27 Mar 2025 08:26

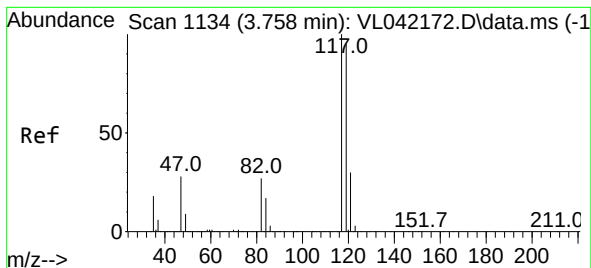
Tgt Ion: 43 Resp: 363735

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_L

ClientSampleId :

VSTDICCC010

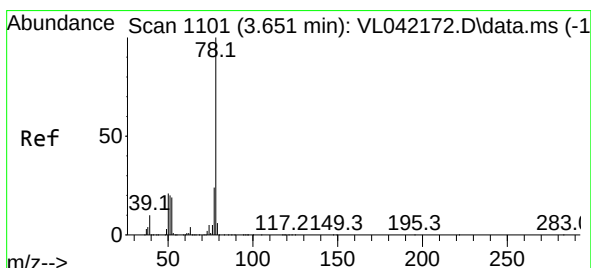
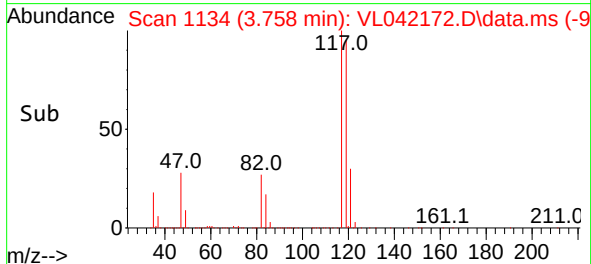
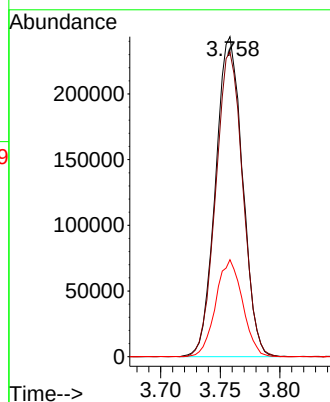
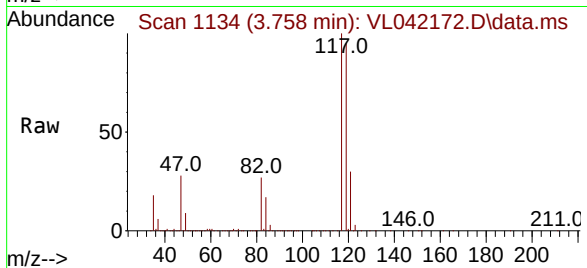
Tgt Ion:117 Resp: 382925

Ion Ratio Lower Upper

117 100

119 95.2 76.2 114.2

121 30.3 24.2 36.4



#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

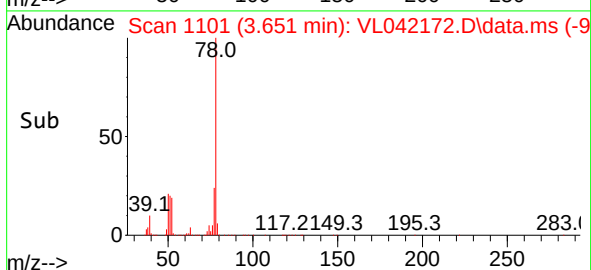
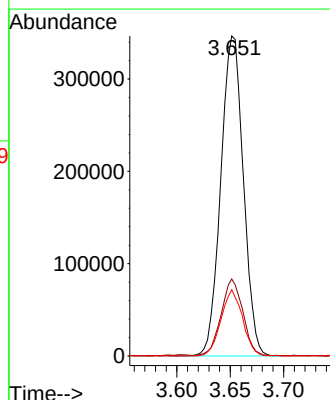
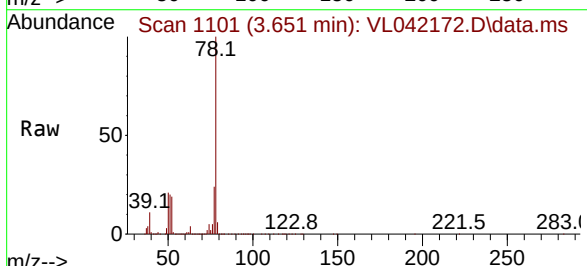
Tgt Ion: 78 Resp: 508860

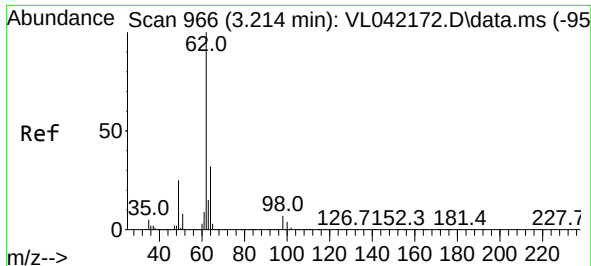
Ion Ratio Lower Upper

78 100

77 23.9 19.1 28.7

50 20.7 16.6 24.8

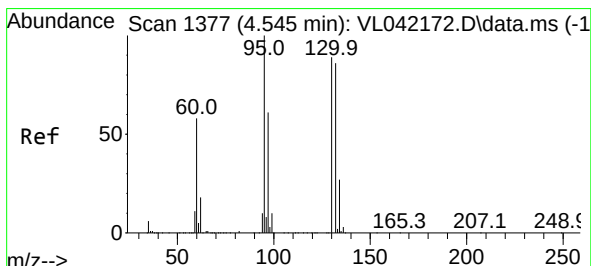
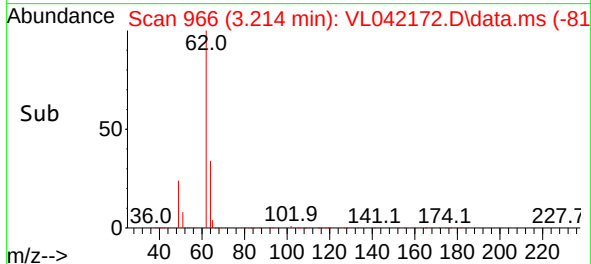
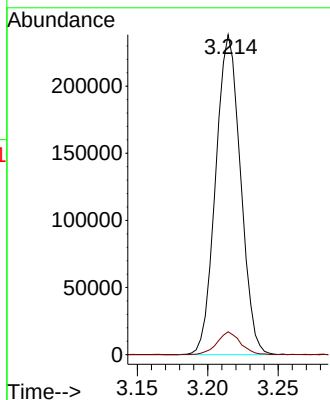
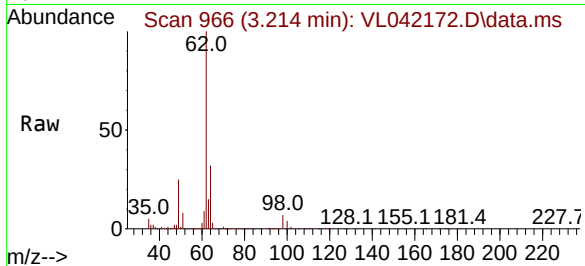




#37
1,2-Dichloroethane
Concen: 9.469 ppbv
RT: 3.214 min Scan# 966
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

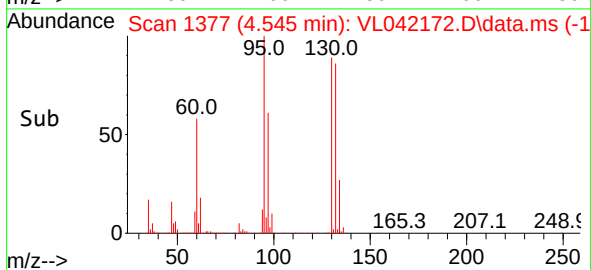
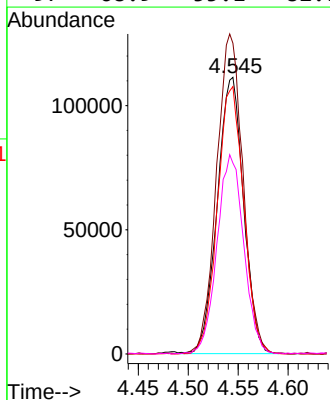
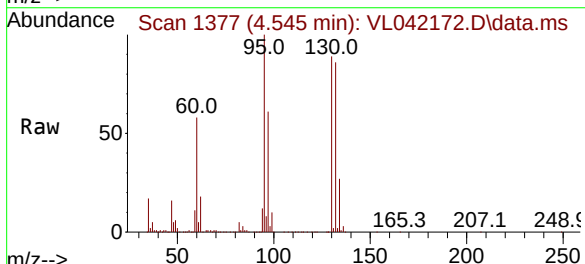
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

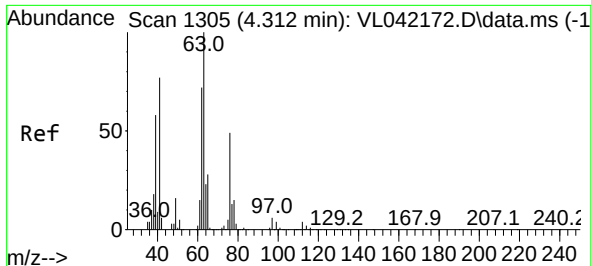
Tgt Ion: 62 Resp: 292937
Ion Ratio Lower Upper
62 100
98 6.8 5.4 8.2



#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

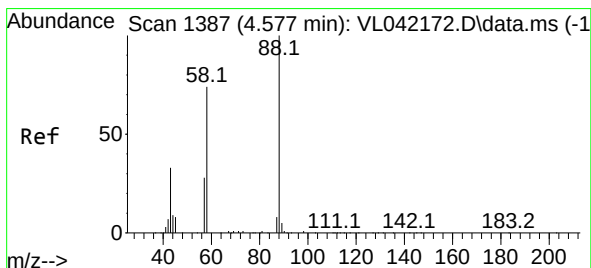
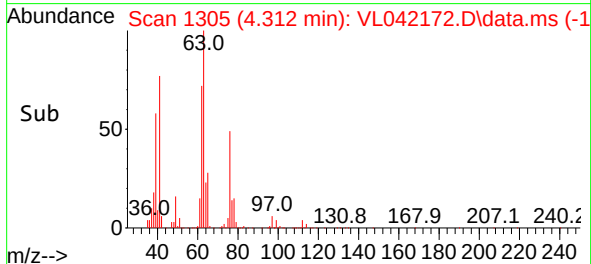
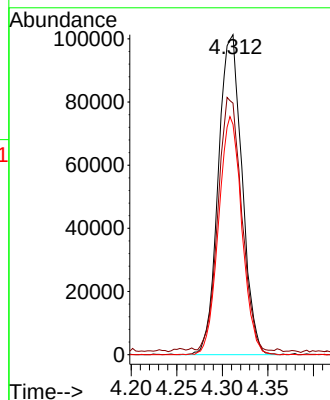
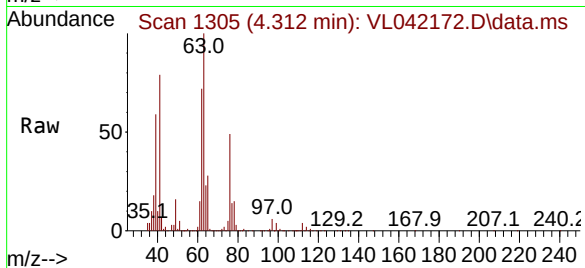
Tgt Ion: 63 Resp: 183439

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

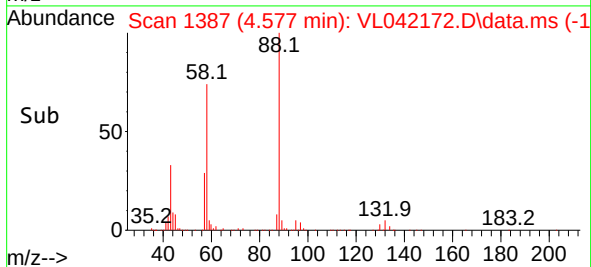
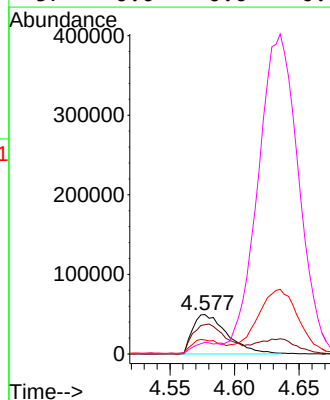
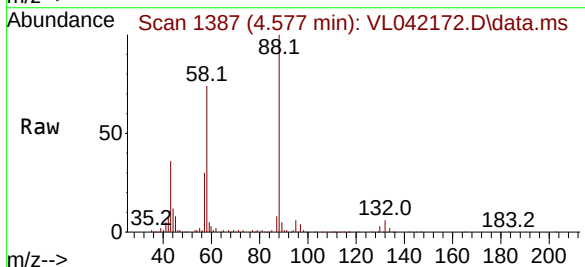
Ion Ratio Lower Upper

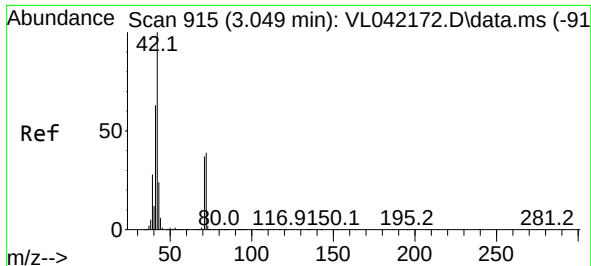
88 100

58 78.4 62.7 94.1

43 28.7 23.0 34.4

57 0.0 0.0 0.0

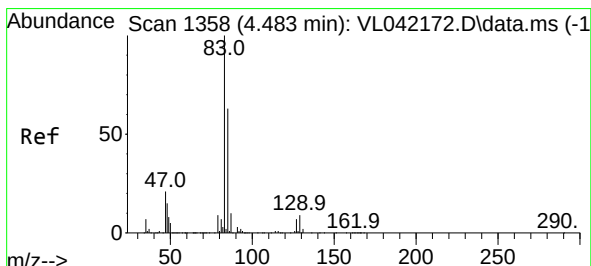
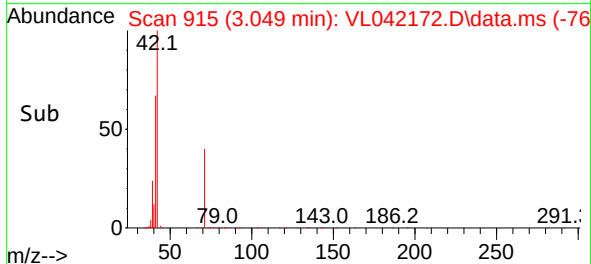
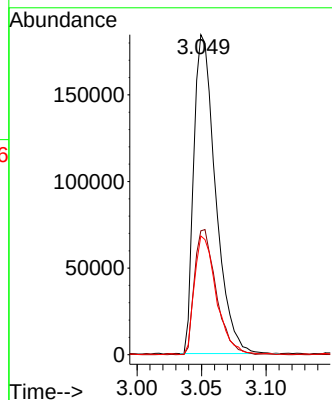
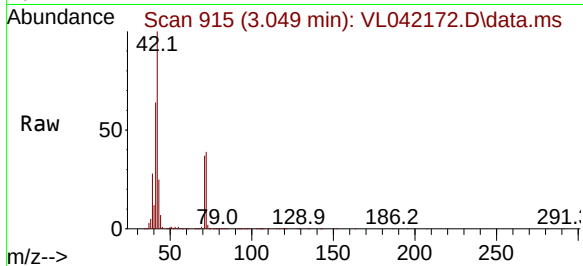




#41
Tetrahydrofuran
Concen: 9.643 ppbv
RT: 3.049 min Scan# 915
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

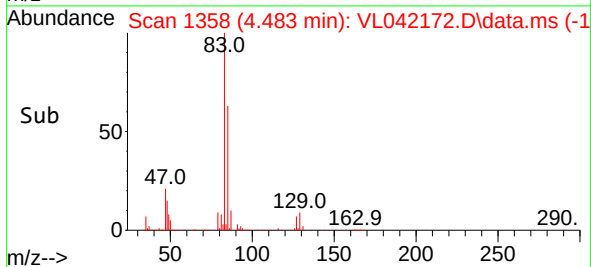
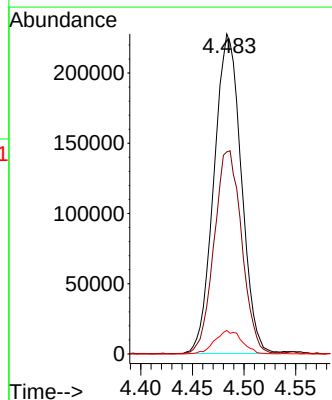
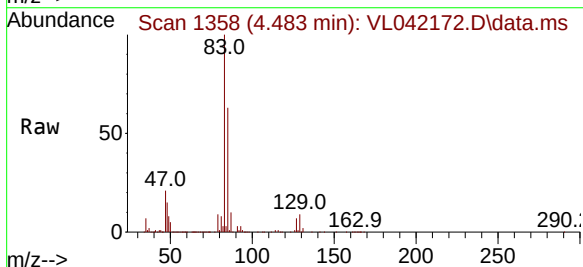
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

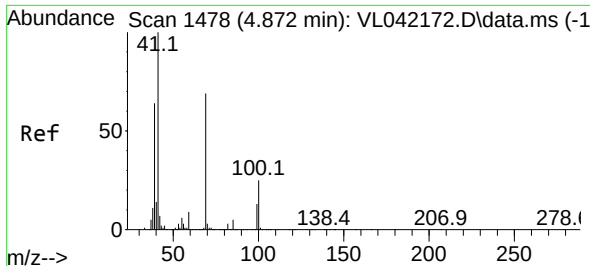
Tgt Ion: 42 Resp: 216851
Ion Ratio Lower Upper
42 100
72 39.2 31.4 47.0
71 37.8 30.2 45.4



#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

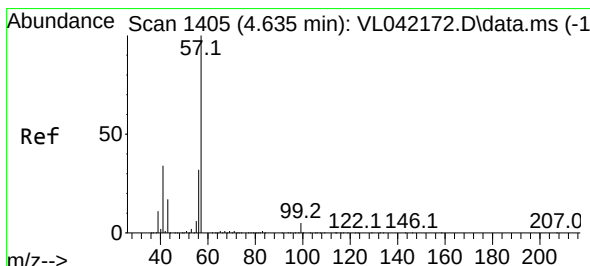
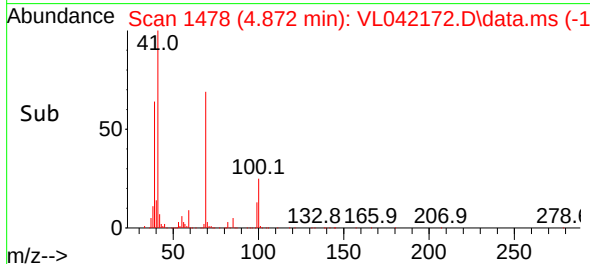
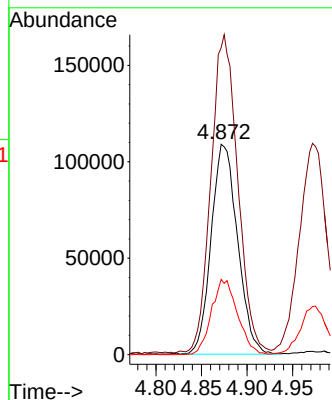
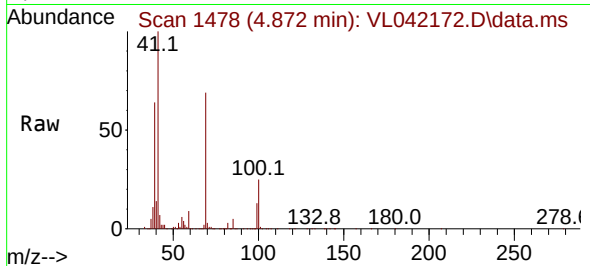




#43
Methyl Methacrylate
Concen: 9.618 ppbv
RT: 4.872 min Scan# 1478
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

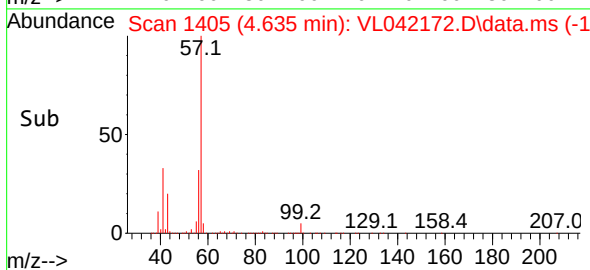
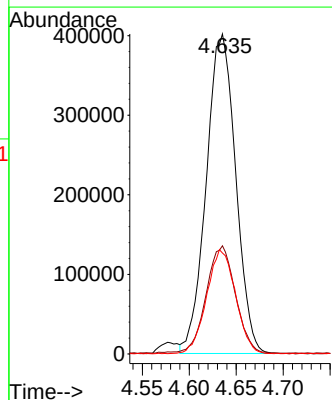
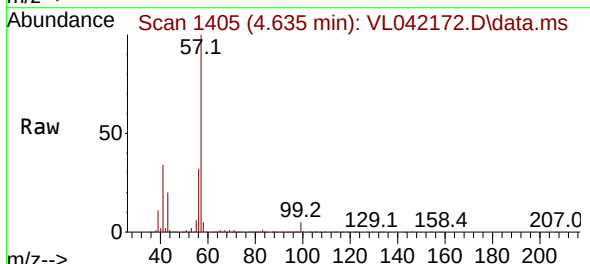
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

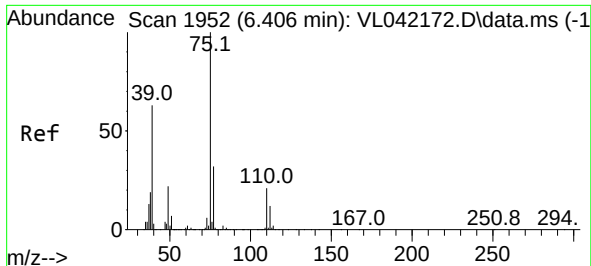
Tgt Ion: 69 Resp: 219399
Ion Ratio Lower Upper
69 100
41 154.7 123.8 185.6
100 35.5 28.4 42.6



#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 :

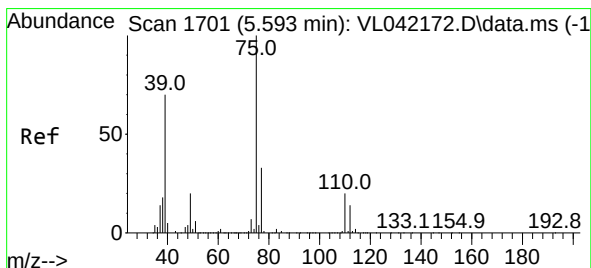
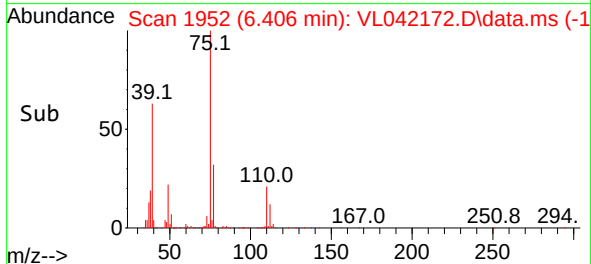
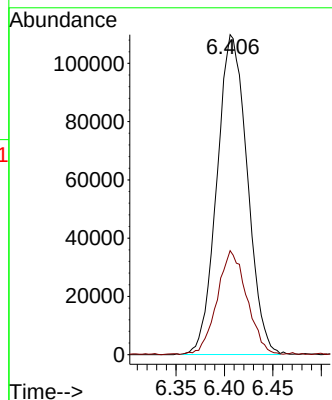
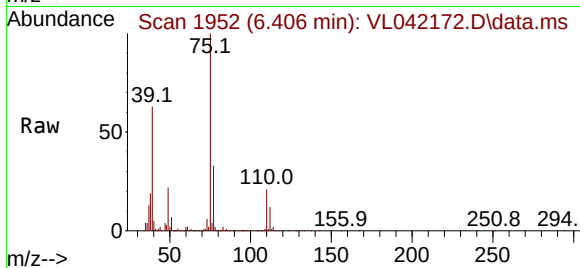
VSTDICCC010

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

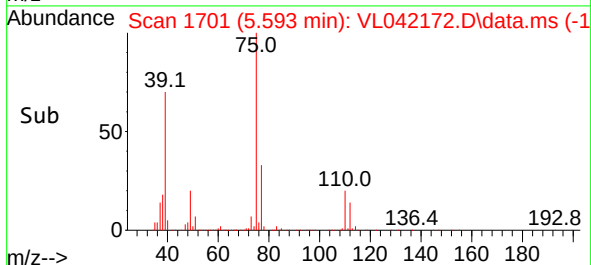
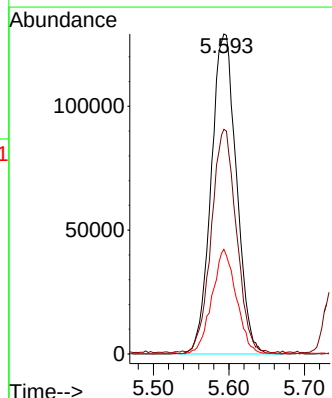
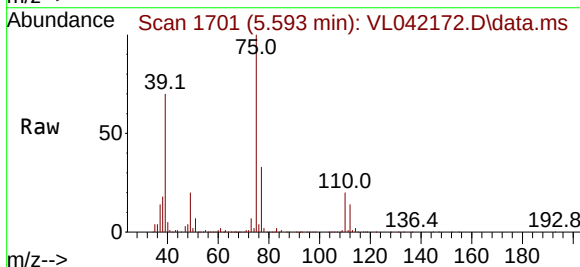
Tgt Ion: 75 Resp: 300021

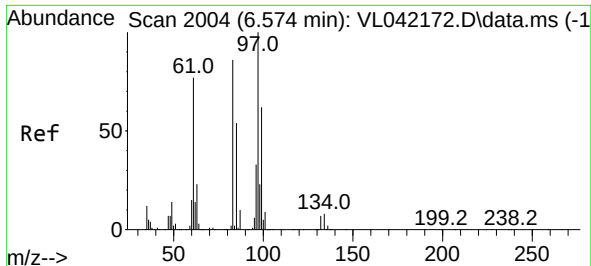
Ion Ratio Lower Upper

75 100

39 69.7 55.8 83.6

77 32.5 26.0 39.0

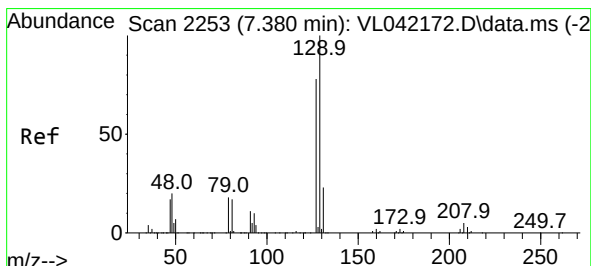
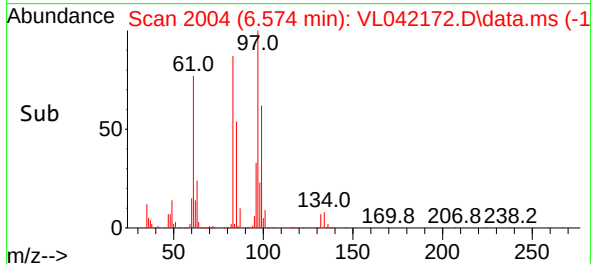
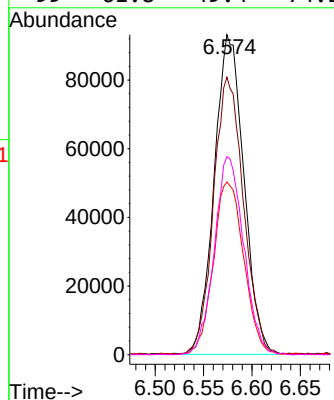
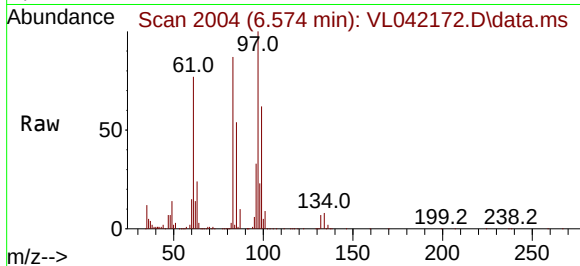




#47
1,1,2-Trichloroethane
Concen: 9.526 ppbv
RT: 6.574 min Scan# 2004
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

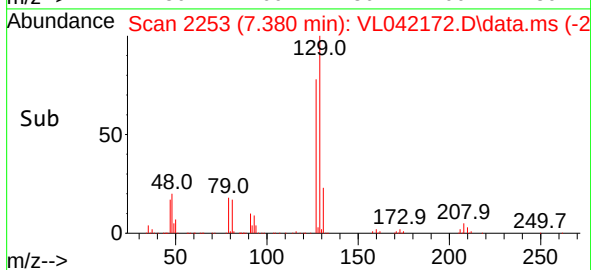
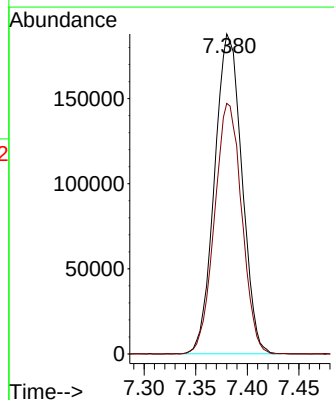
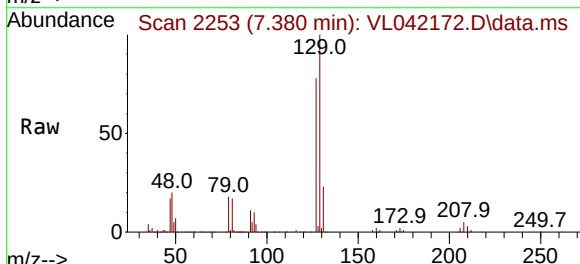
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

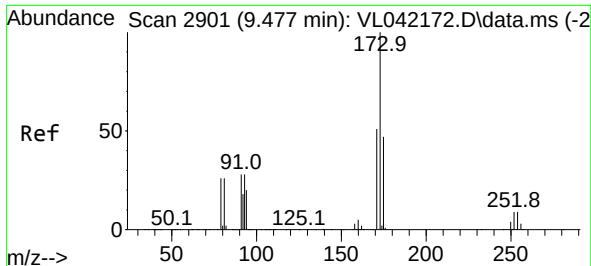
Tgt Ion:	97	Resp:	198176
Ion	Ratio	Lower	Upper
97	100		
83	86.5	69.2	103.8
85	53.9	43.1	64.7
99	61.8	49.4	74.2



#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

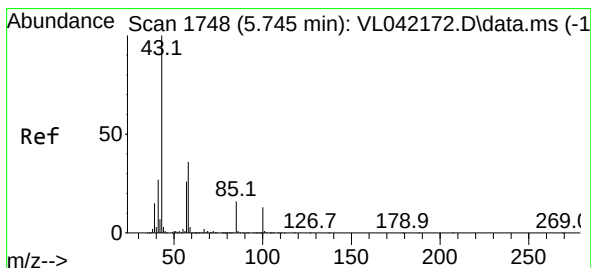
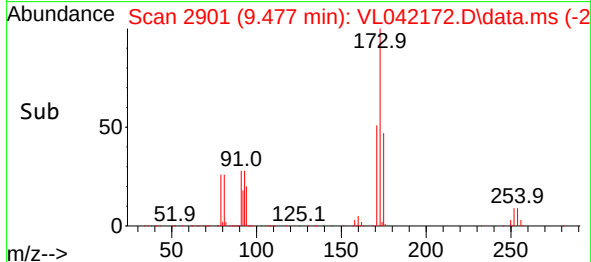
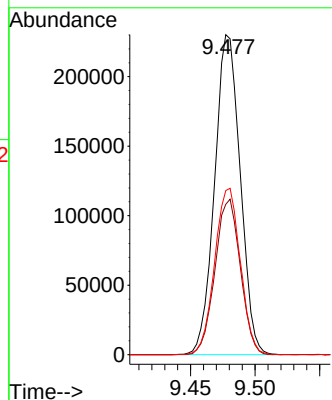
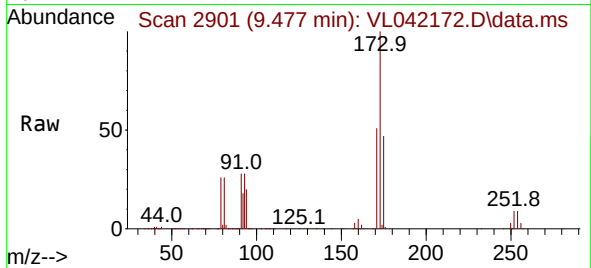




#49
Bromoform
Concen: 10.021 ppbv
RT: 9.477 min Scan# 2901
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

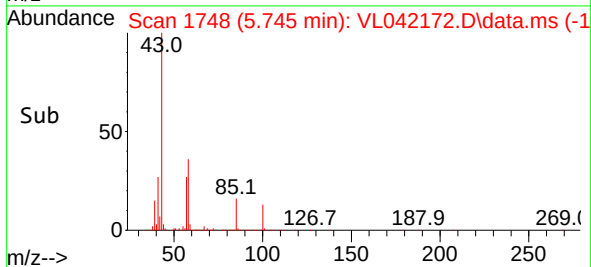
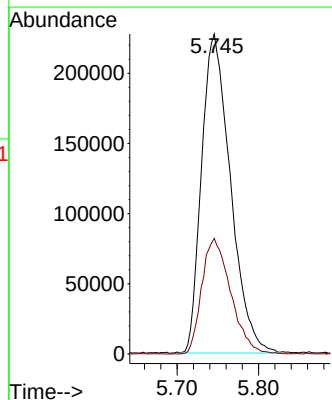
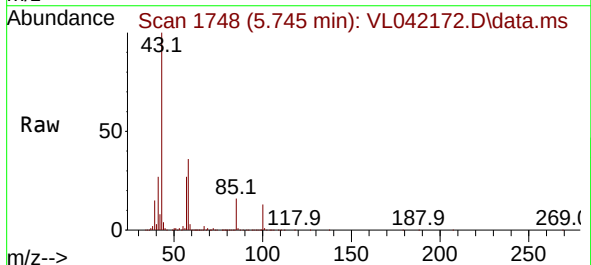
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

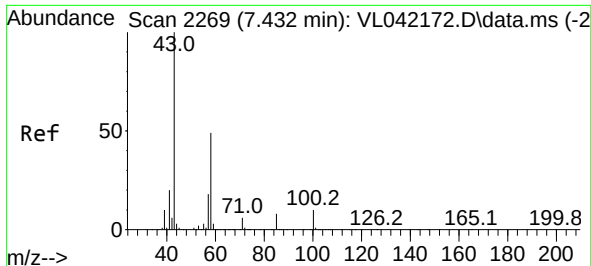
Tgt Ion:173 Resp: 317189
Ion Ratio Lower Upper
173 100
175 48.2 38.6 57.8
171 52.2 41.8 62.6



#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

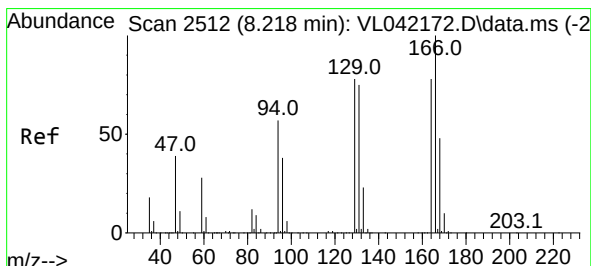
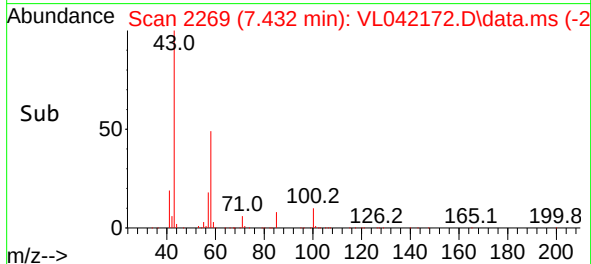
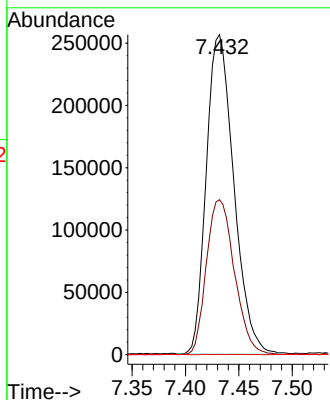
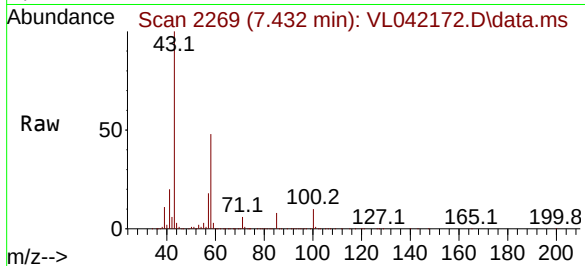




#51
2-Hexanone
Concen: 8.848 ppbv
RT: 7.432 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

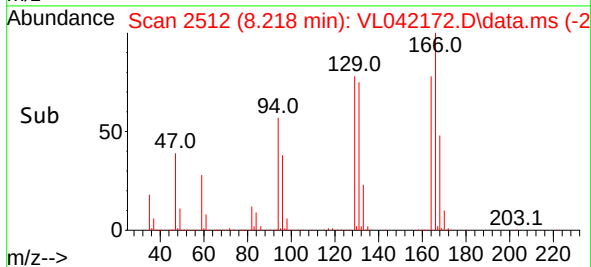
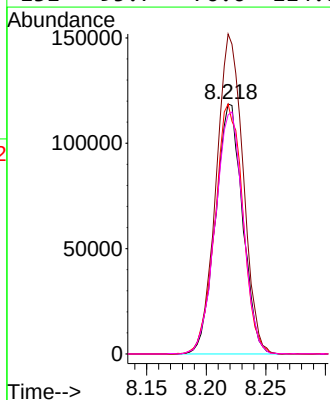
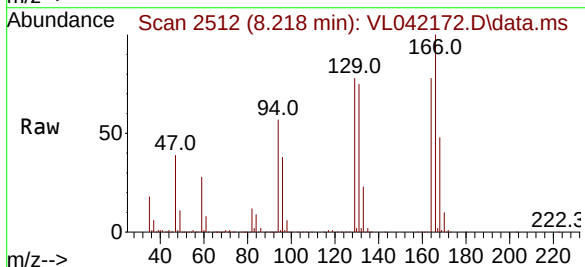
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

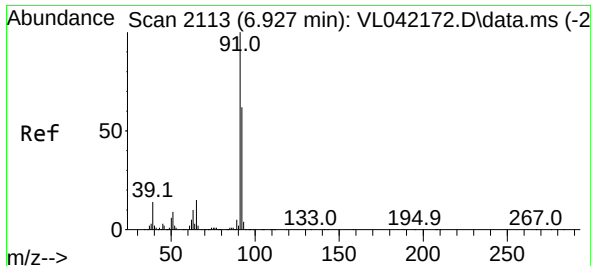
Tgt Ion: 43 Resp: 460013
Ion Ratio Lower Upper
43 100
58 49.6 39.7 59.5
98 0.1 0.1 0.1#



#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

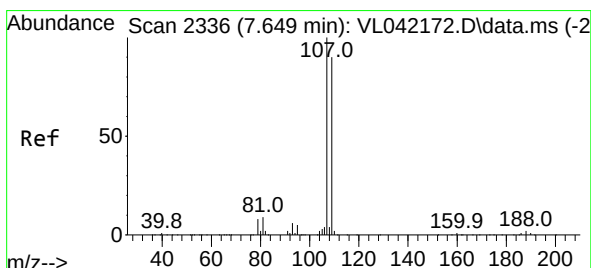
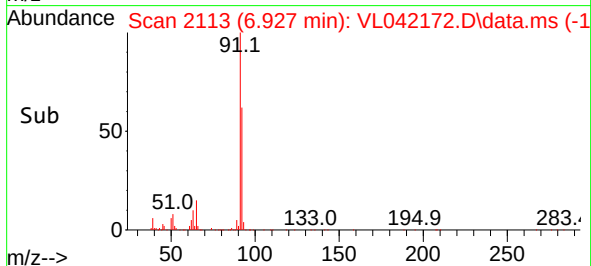
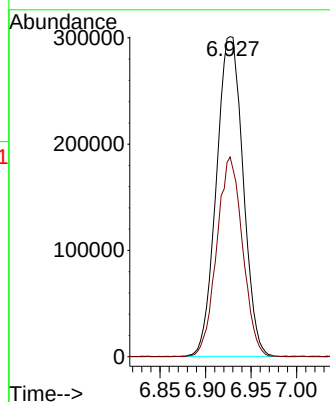
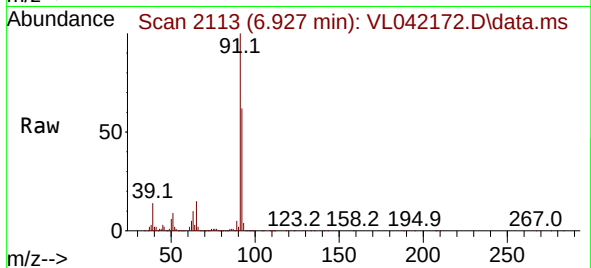




#53
Toluene
Concen: 9.576 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

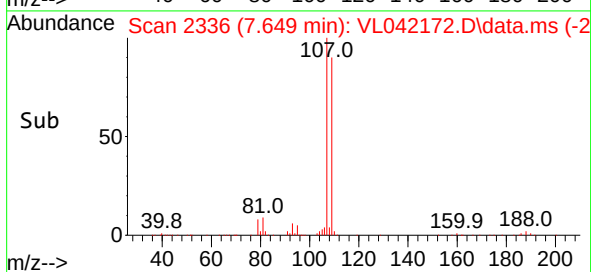
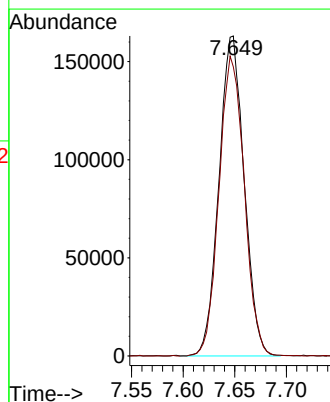
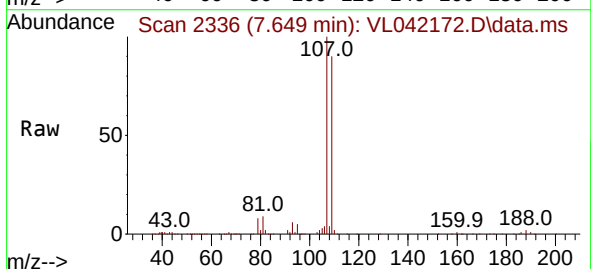
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

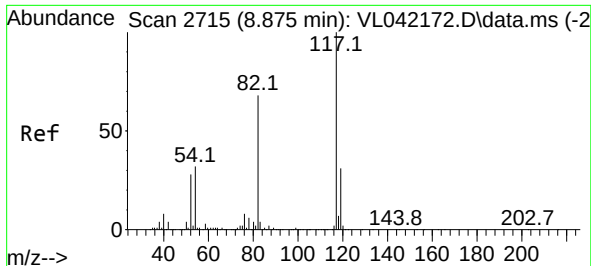
Tgt Ion: 91 Resp: 613378
Ion Ratio Lower Upper
91 100
92 60.5 48.4 72.6



#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

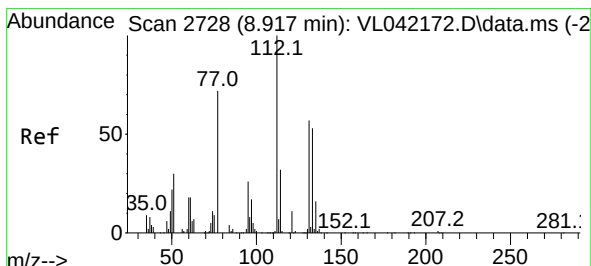
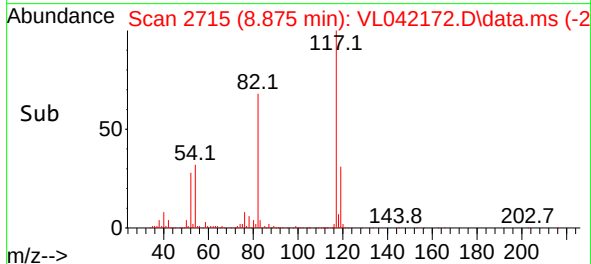
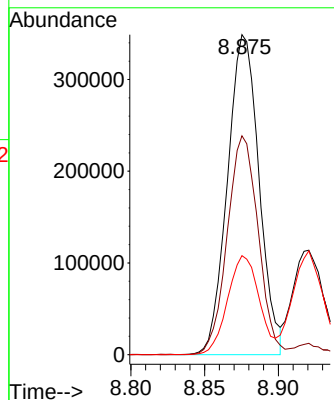
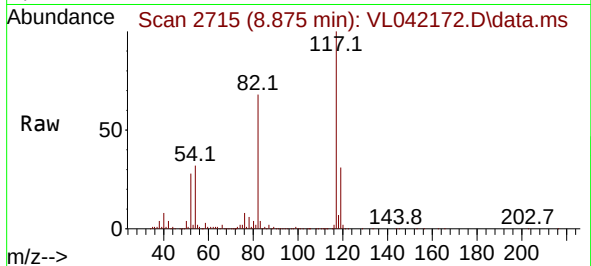




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

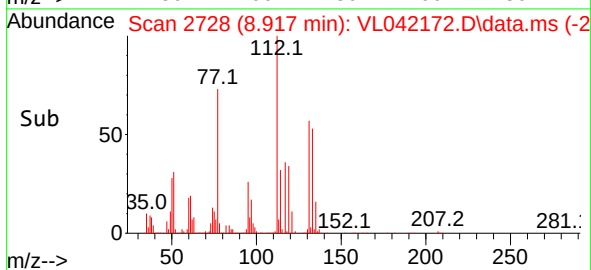
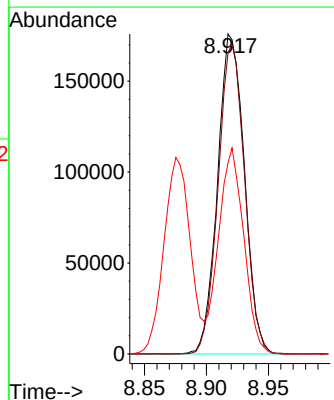
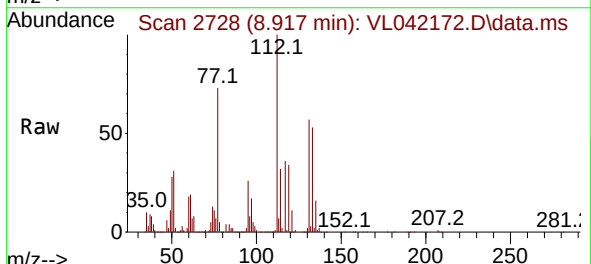
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

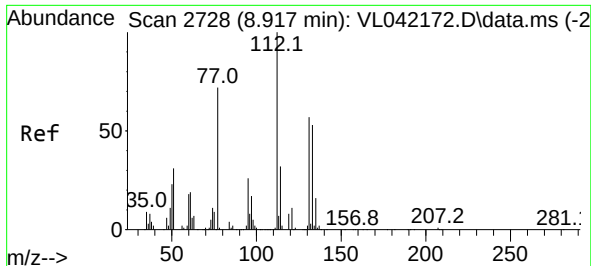
Tgt Ion:117 Resp: 519536
Ion Ratio Lower Upper
117 100
82 69.7 55.8 83.6
119 31.9 25.5 38.3



#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

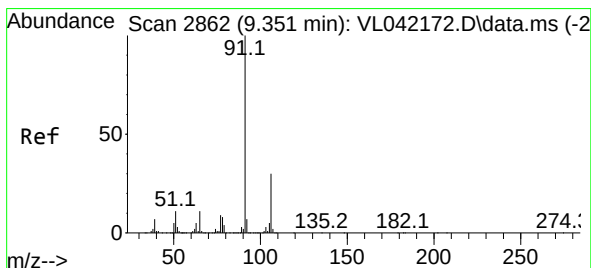
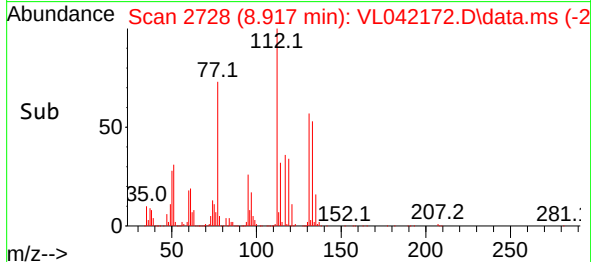
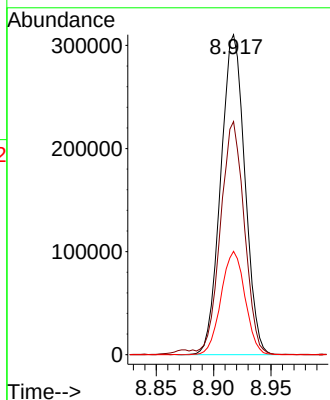
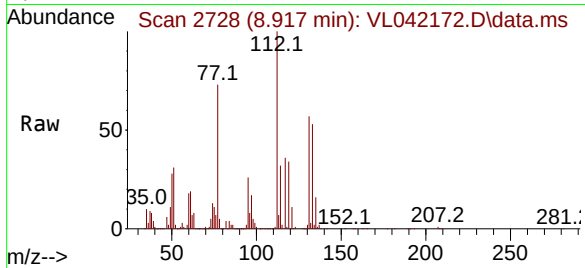




#57
Chlorobenzene
Concen: 9.223 ppbv
RT: 8.917 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

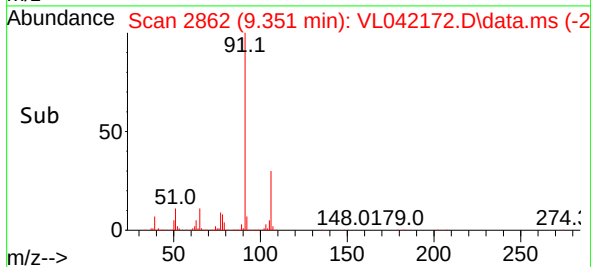
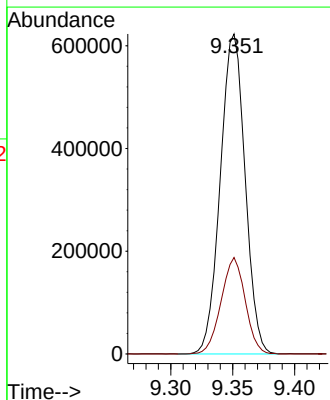
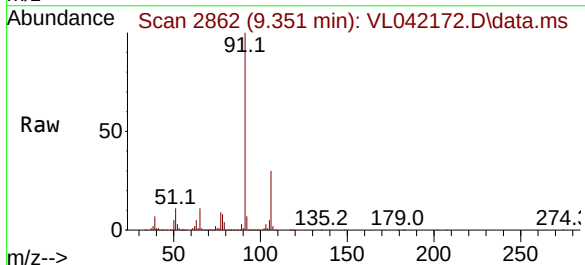
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

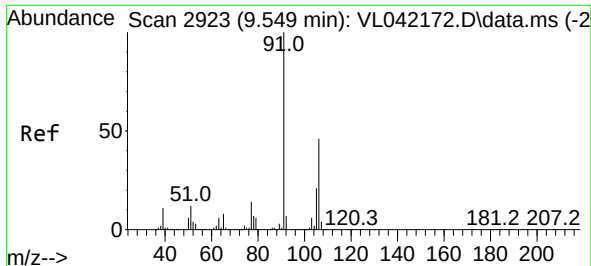
Tgt Ion:112 Resp: 454511
Ion Ratio Lower Upper
112 100
77 72.7 58.2 87.2
114 32.3 29.1 35.5



#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 :

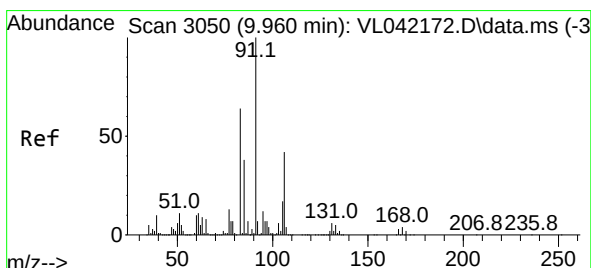
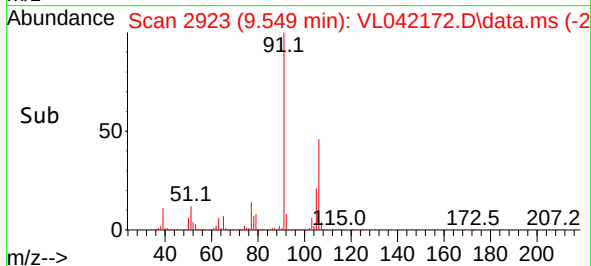
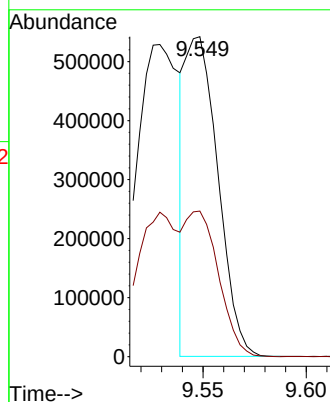
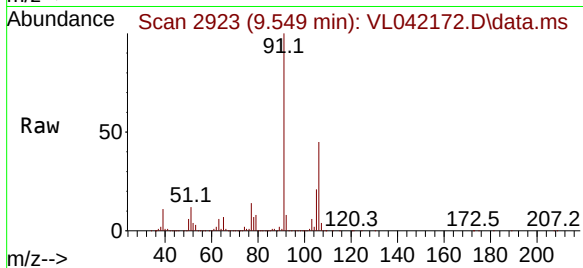
VSTDICCC010

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

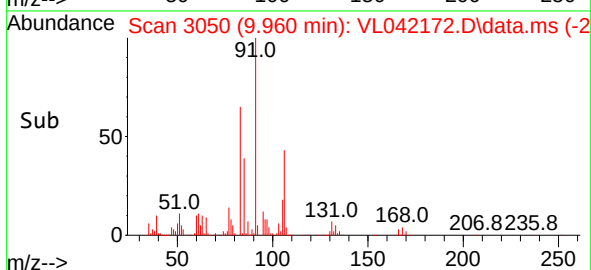
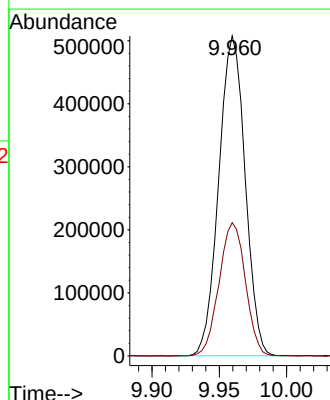
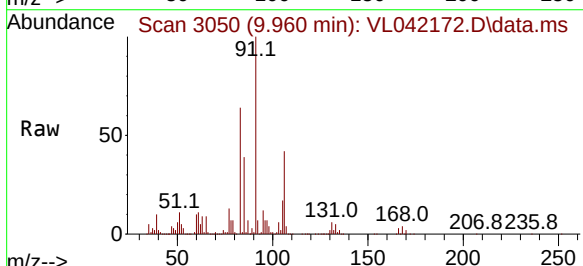
Acq: 27 Mar 2025 08:26

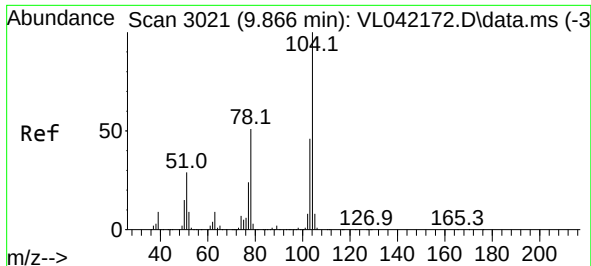
Tgt Ion: 91 Resp: 689933

Ion Ratio Lower Upper

91 100

106 41.7 20.8 62.5

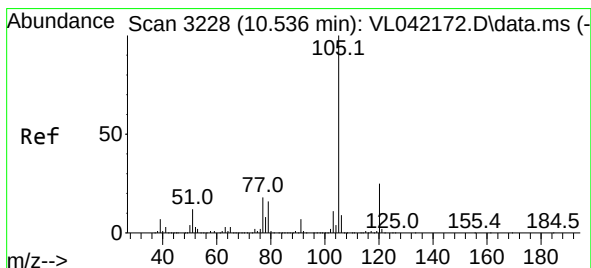
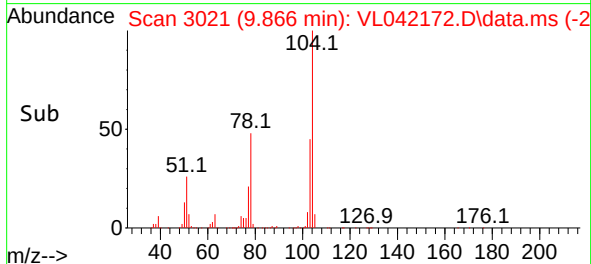
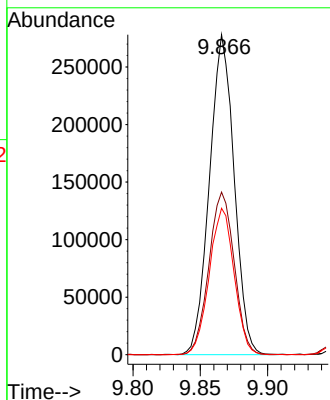
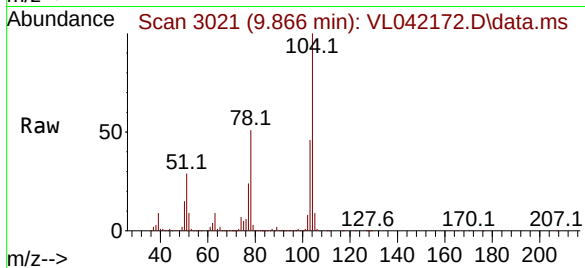




#61
Styrene
Concen: 9.706 ppbv
RT: 9.866 min Scan# 3021
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

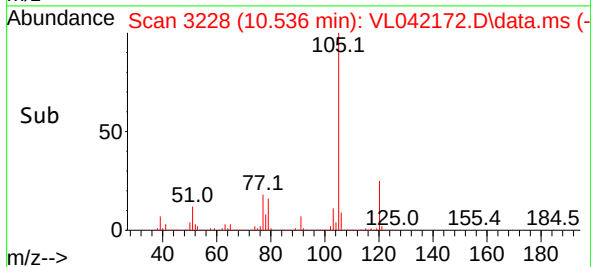
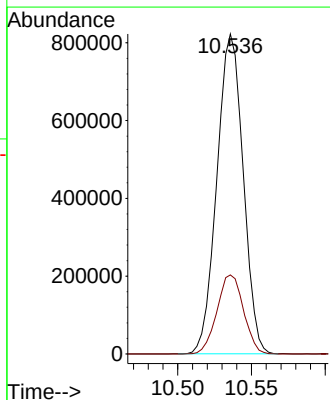
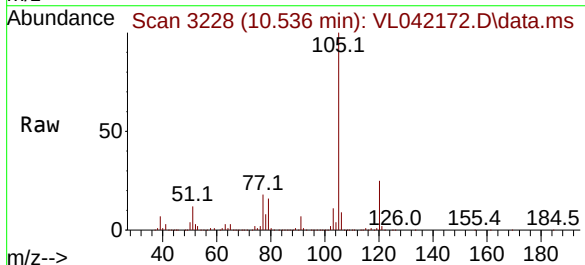
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

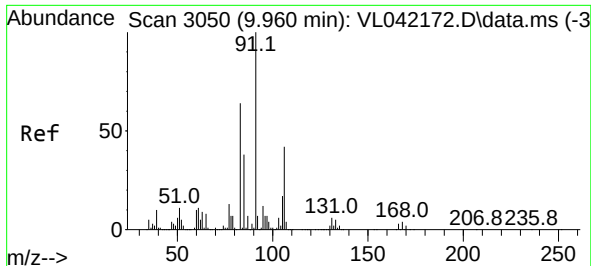
Tgt Ion:104 Resp: 354697
Ion Ratio Lower Upper
104 100
78 52.2 41.8 62.6
103 46.2 37.0 55.4



#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

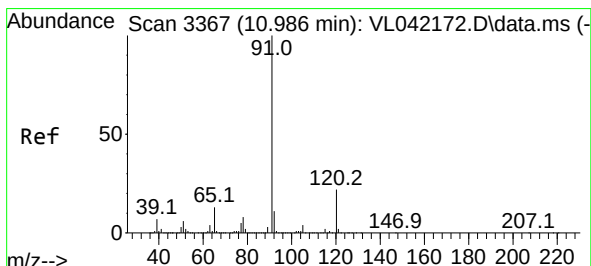
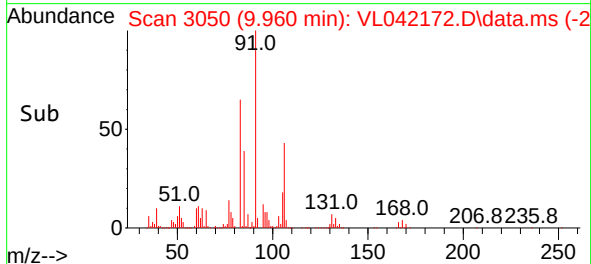
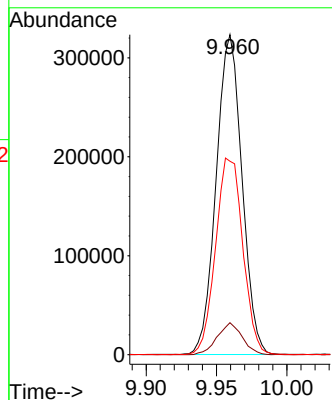
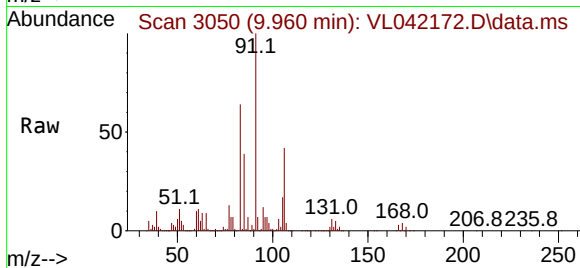
Tgt Ion: 83 Resp: 413392

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

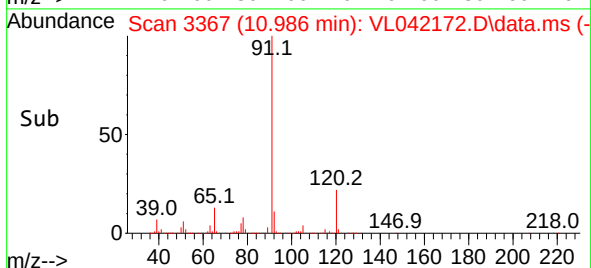
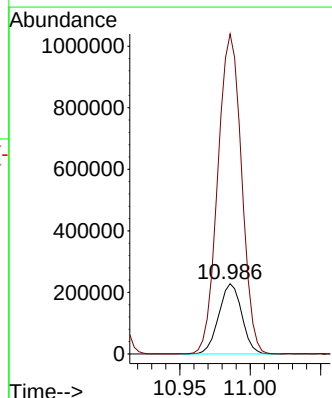
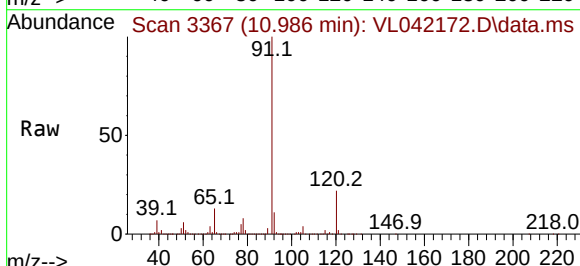
Acq: 27 Mar 2025 08:26

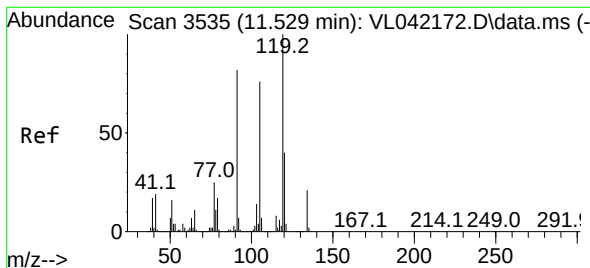
Tgt Ion: 120 Resp: 259405

Ion Ratio Lower Upper

120 100

91 471.1 376.9 565.3

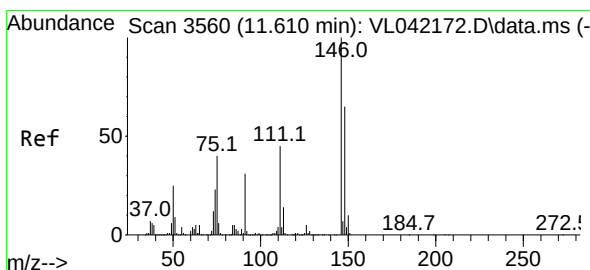
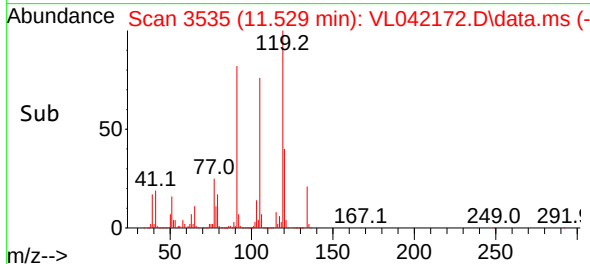
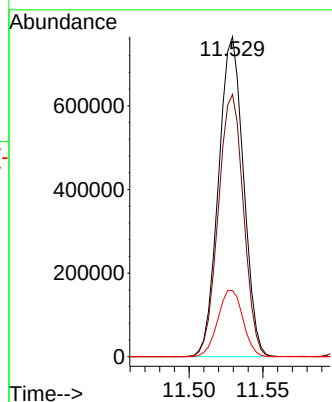
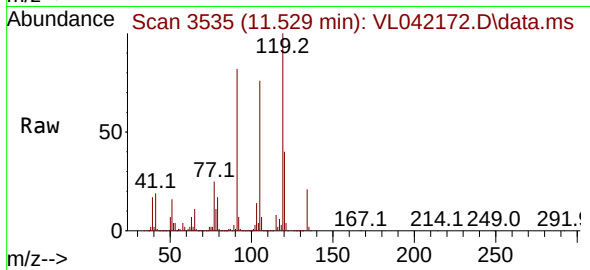




#65
tert-Butylbenzene
Concen: 8.828 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

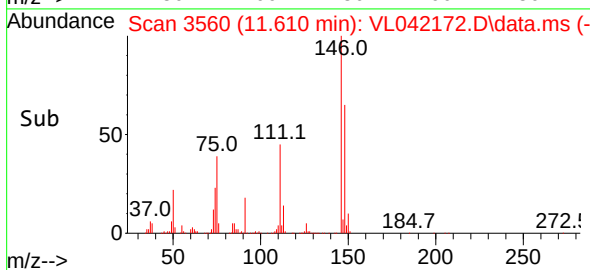
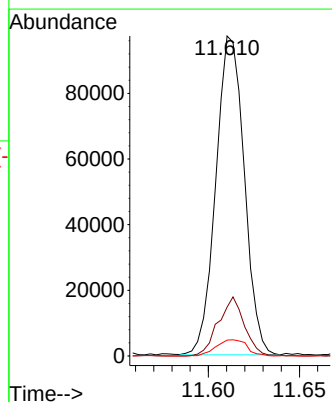
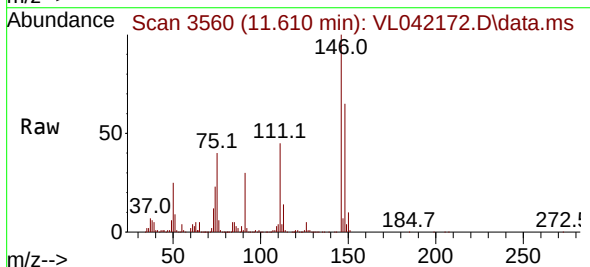
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

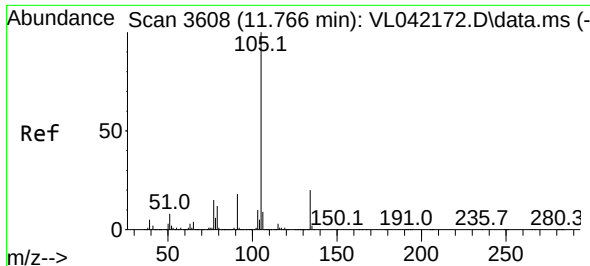
Tgt Ion:119 Resp: 901951
Ion Ratio Lower Upper
119 100
91 82.5 66.0 99.0
134 20.9 16.7 25.1



#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

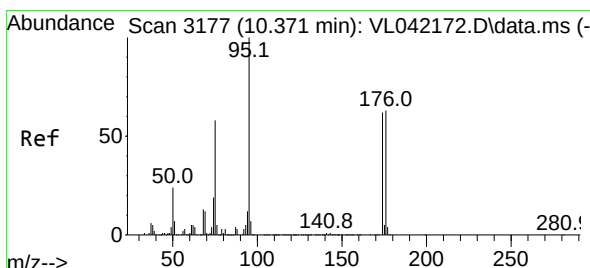
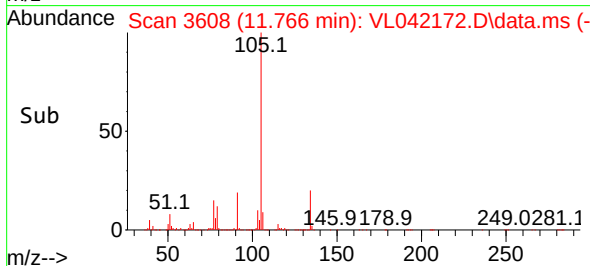
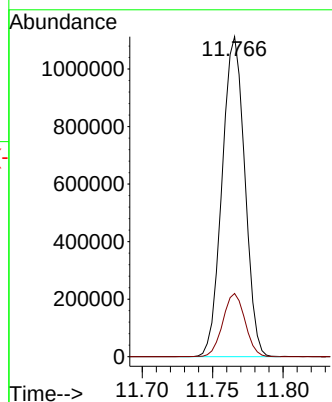
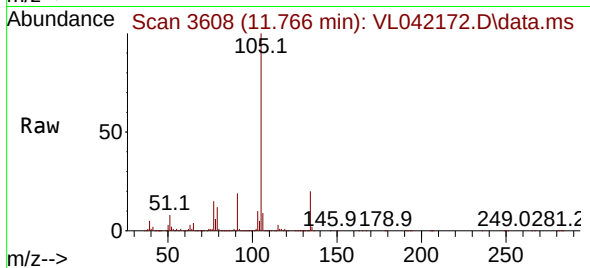




#67
 sec-Butylbenzene
 Concen: 8.796 ppbv
 RT: 11.766 min Scan# 3608
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

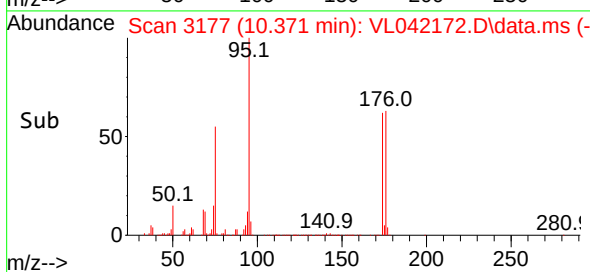
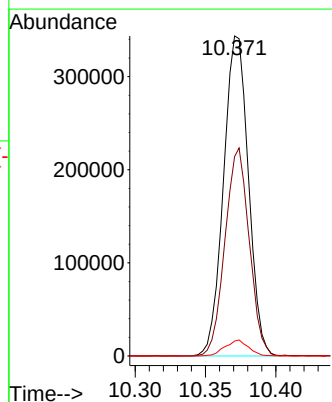
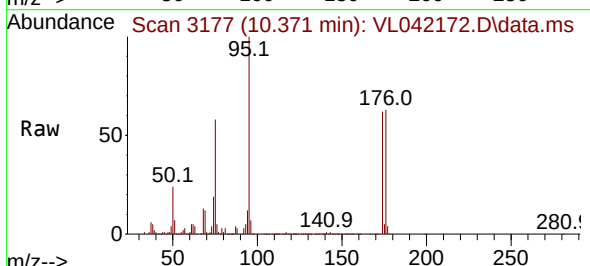
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

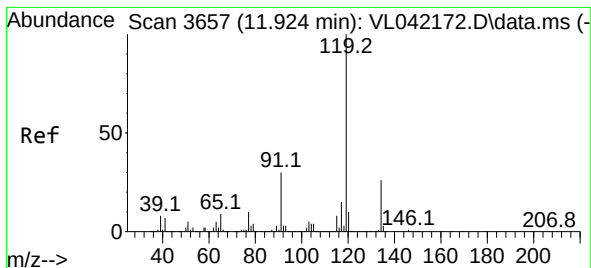
Tgt Ion:105 Resp: 1249106
 Ion Ratio Lower Upper
 105 100
 134 19.4 15.5 23.3



#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

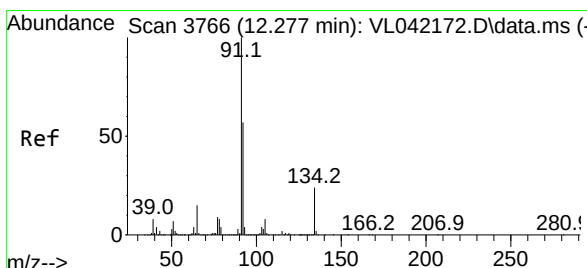
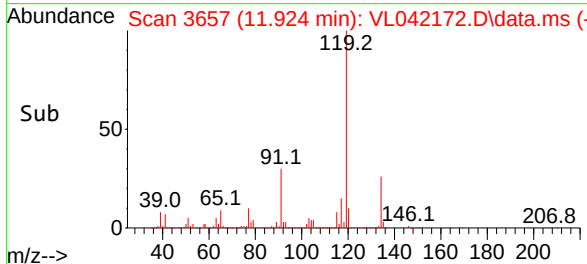
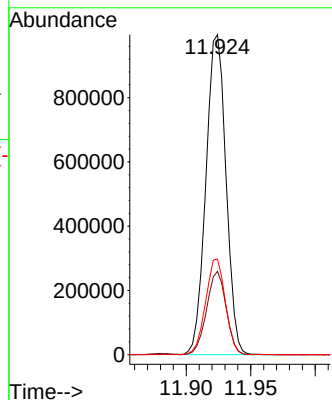
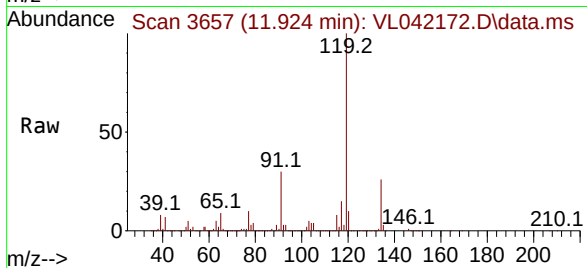
Tgt Ion:119 Resp: 1079675

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

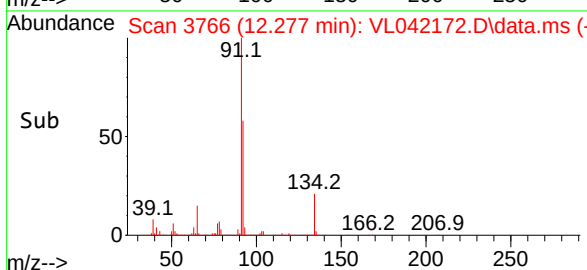
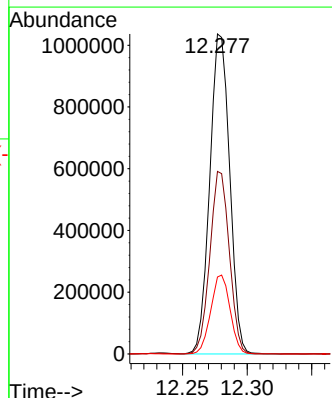
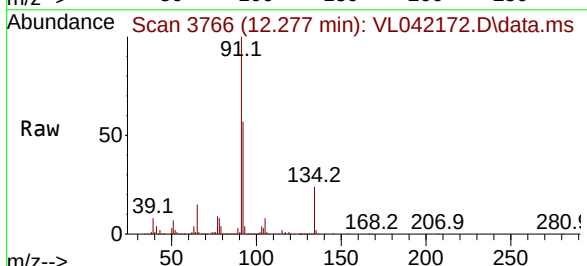
Tgt Ion: 91 Resp: 1110351

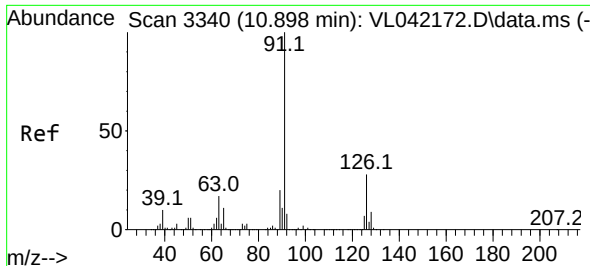
Ion Ratio Lower Upper

91 100

92 56.1 44.9 67.3

134 24.0 19.2 28.8

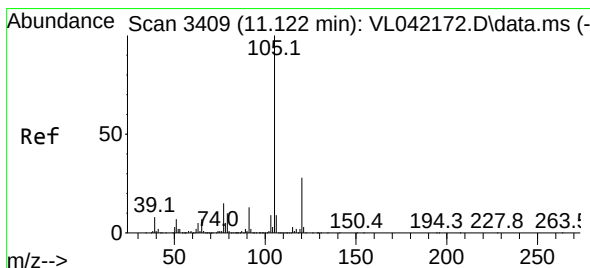
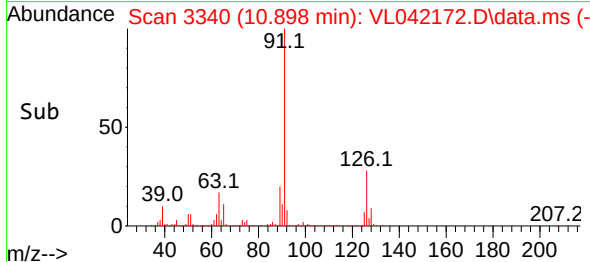
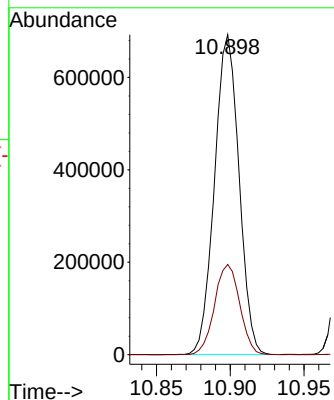
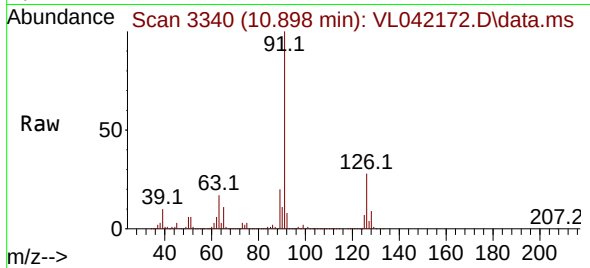




#71
2-Chlorotoluene
Concen: 9.320 ppbv
RT: 10.898 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

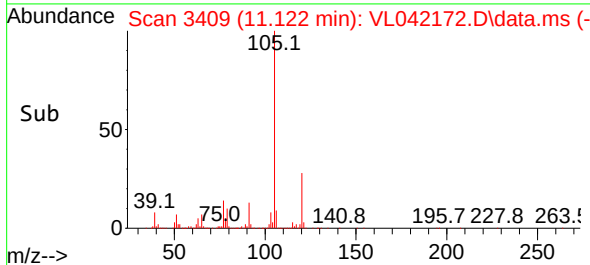
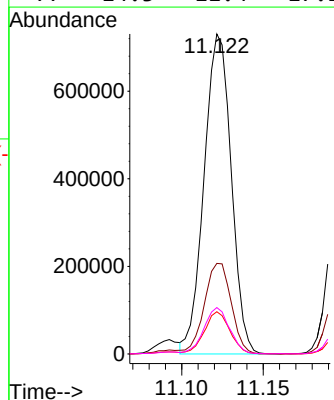
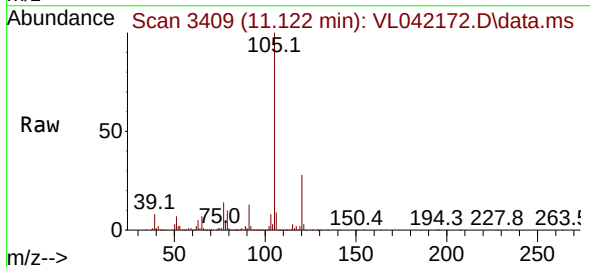
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

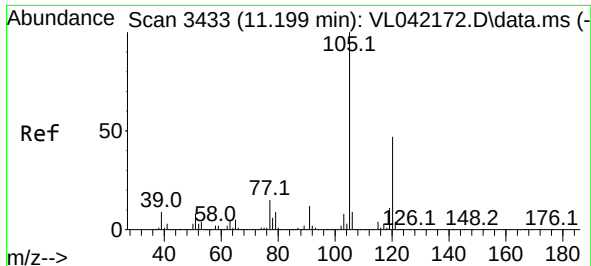
Tgt Ion: 91 Resp: 799102
Ion Ratio Lower Upper
91 100
126 29.0 11.6 46.4



#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

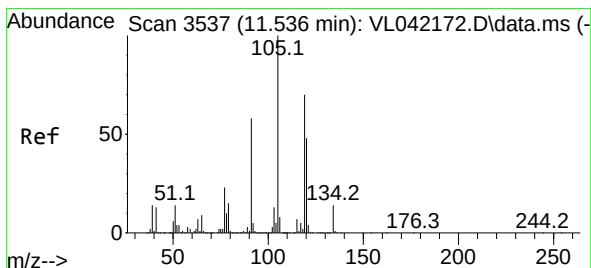
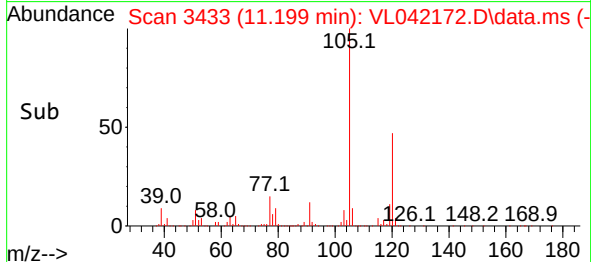
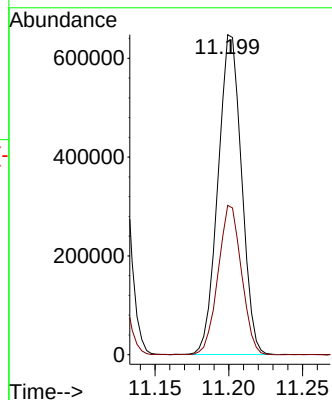
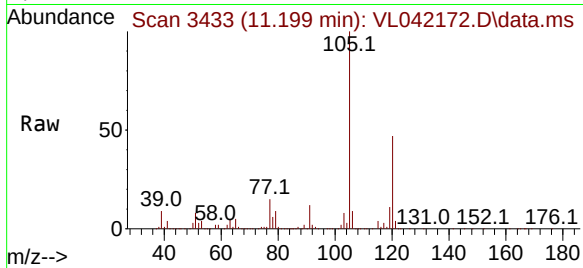




#73
 1,3,5-Trimethylbenzene
 Concen: 8.970 ppbv
 RT: 11.199 min Scan# 3433
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

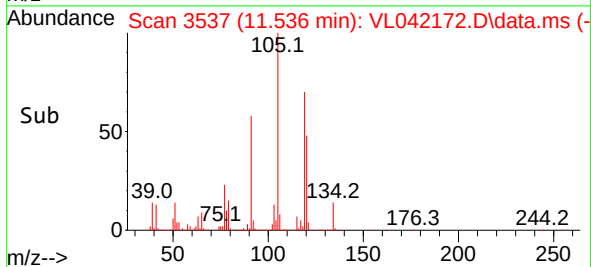
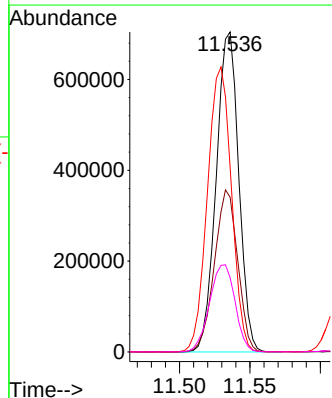
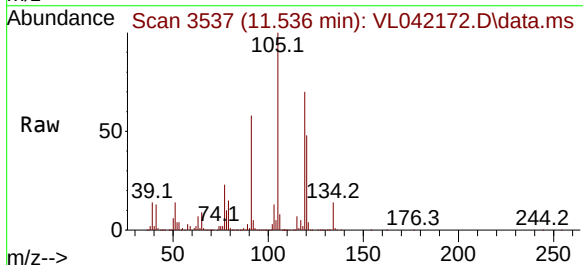
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

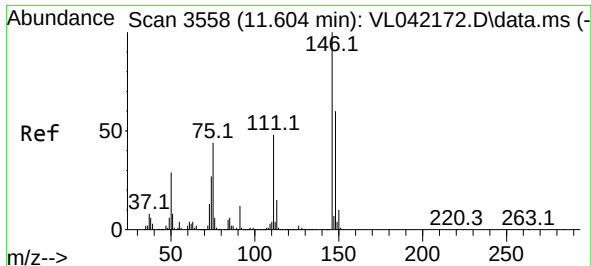
Tgt Ion:105 Resp: 720566
 Ion Ratio Lower Upper
 105 100
 120 46.7 37.4 56.0



#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

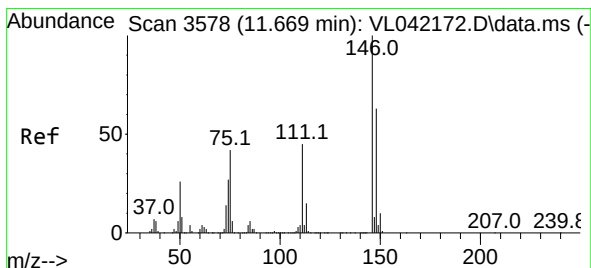
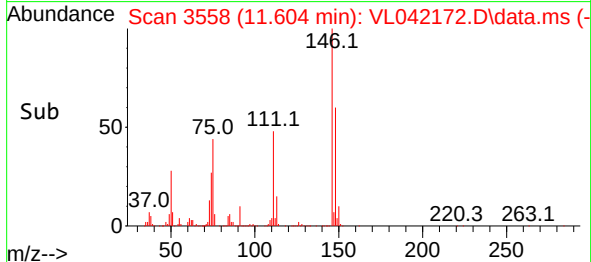
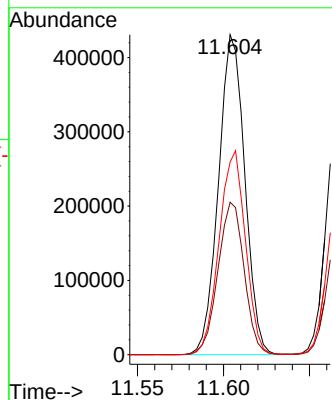
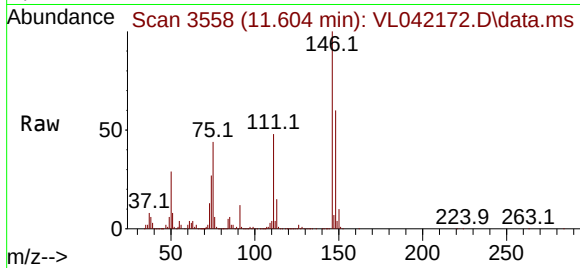




#75
1,3-Dichlorobenzene
Concen: 9.028 ppbv
RT: 11.604 min Scan# 3558
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

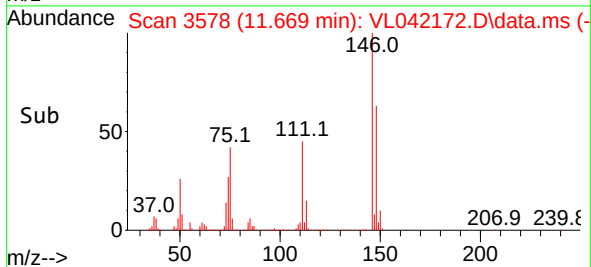
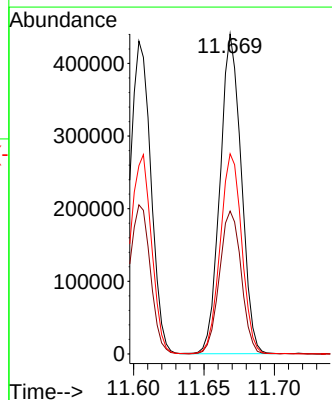
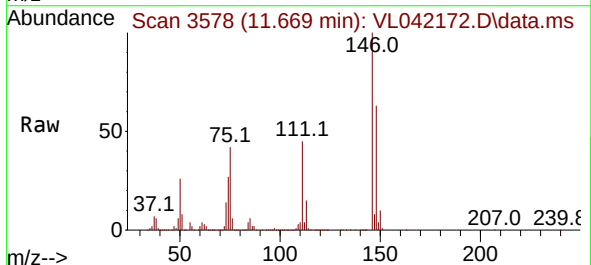
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

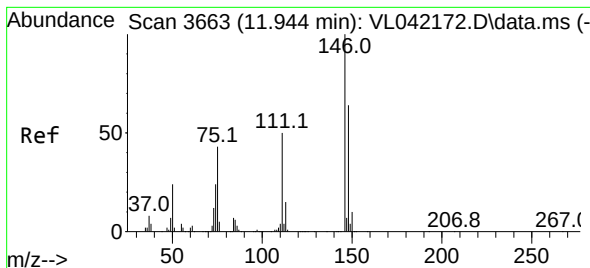
Tgt Ion:146 Resp: 458226
Ion Ratio Lower Upper
146 100
111 47.5 23.8 71.2
148 63.9 31.9 95.9



#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# 3

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

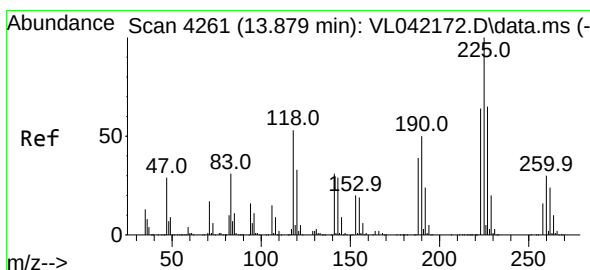
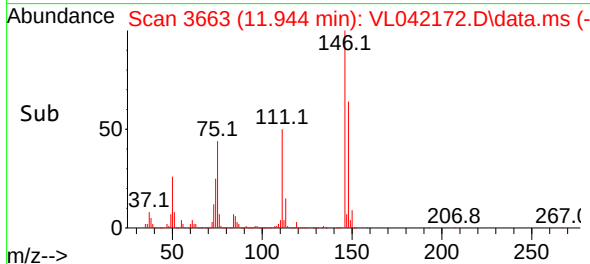
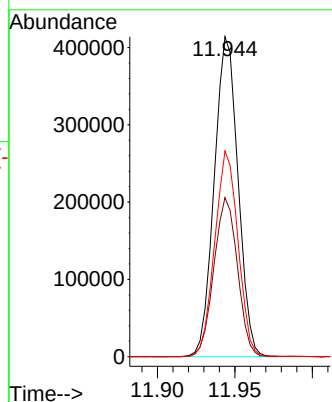
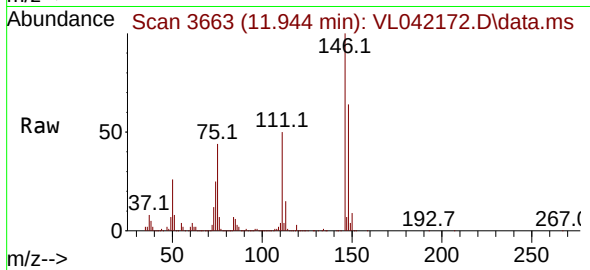
Tgt Ion:146 Resp: 441473

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

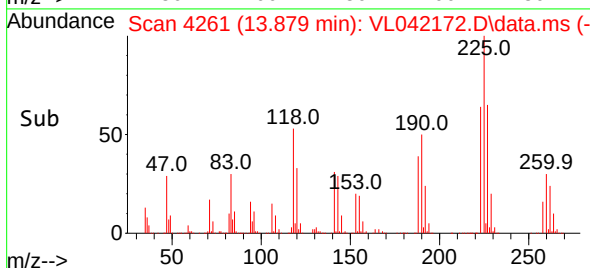
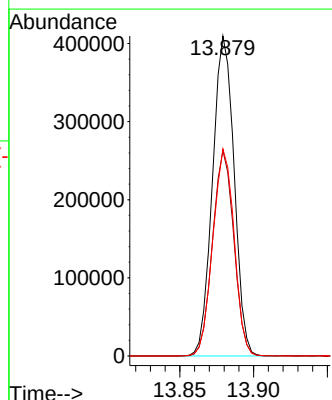
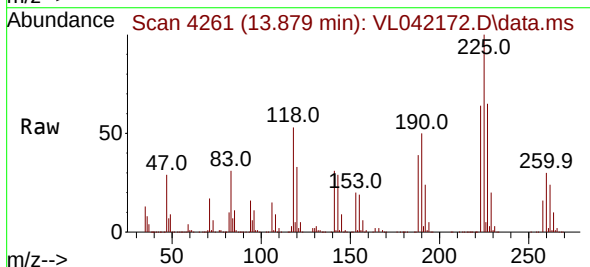
Tgt Ion:225 Resp: 416735

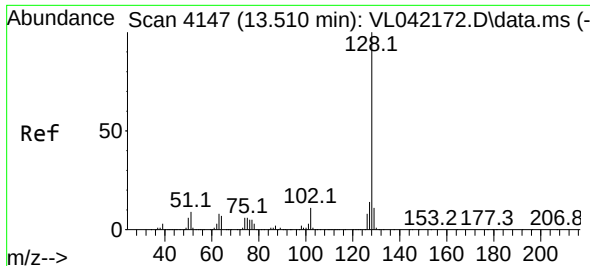
Ion Ratio Lower Upper

225 100

223 63.3 50.6 76.0

227 64.0 51.2 76.8

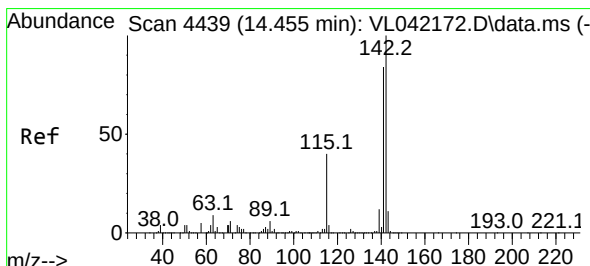
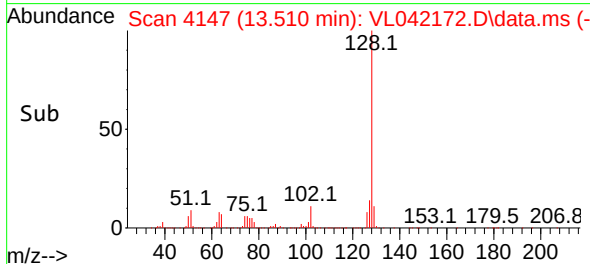
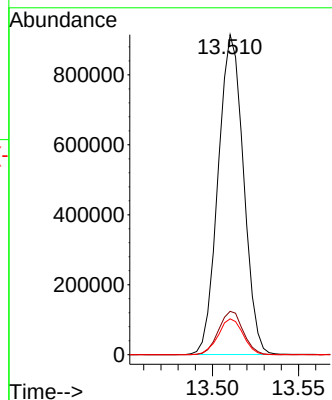
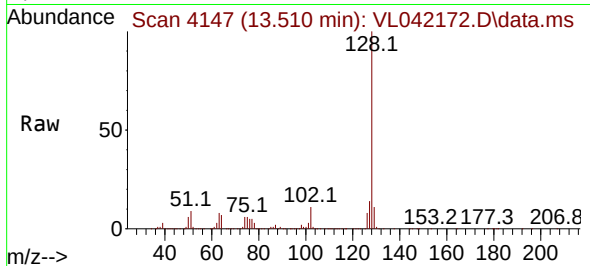




#79
Naphthalene
Concen: 9.271 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

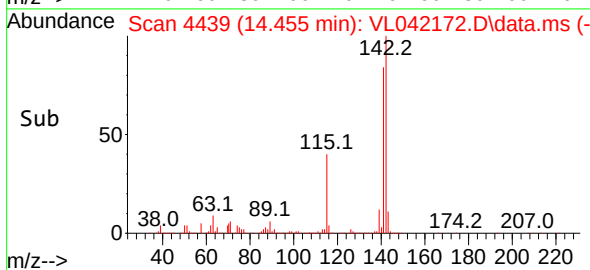
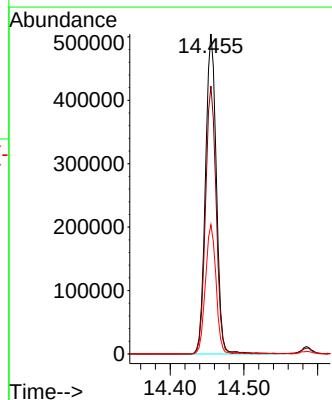
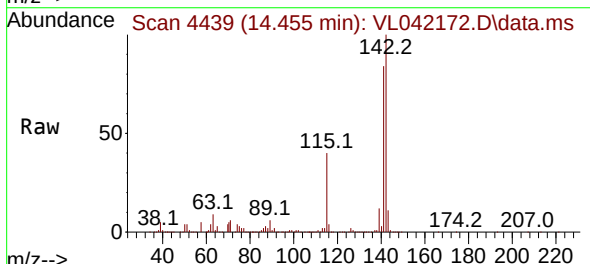
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

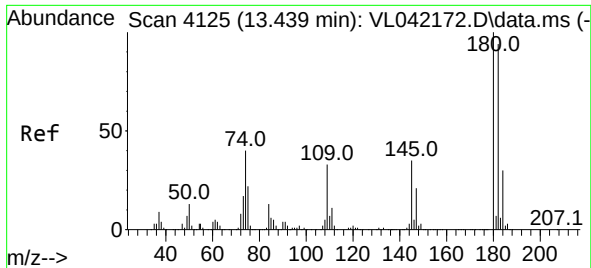
Tgt Ion:128 Resp: 938470
Ion Ratio Lower Upper
128 100
127 13.5 10.8 16.2
129 11.2 9.0 13.4



#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

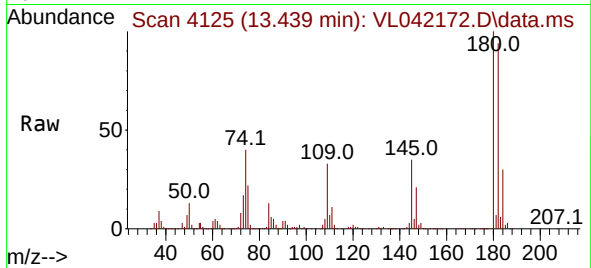
Tgt Ion:142 Resp: 514394
Ion Ratio Lower Upper
142 100
141 82.9 66.3 99.5
115 39.5 31.6 47.4



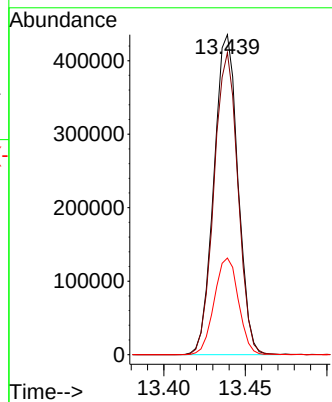
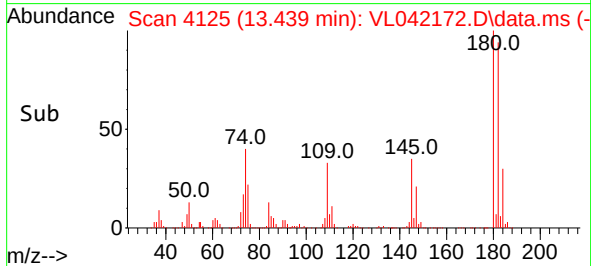


#81
 1,2,4-Trichlorobenzene
 Concen: 9.561 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

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
 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	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

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

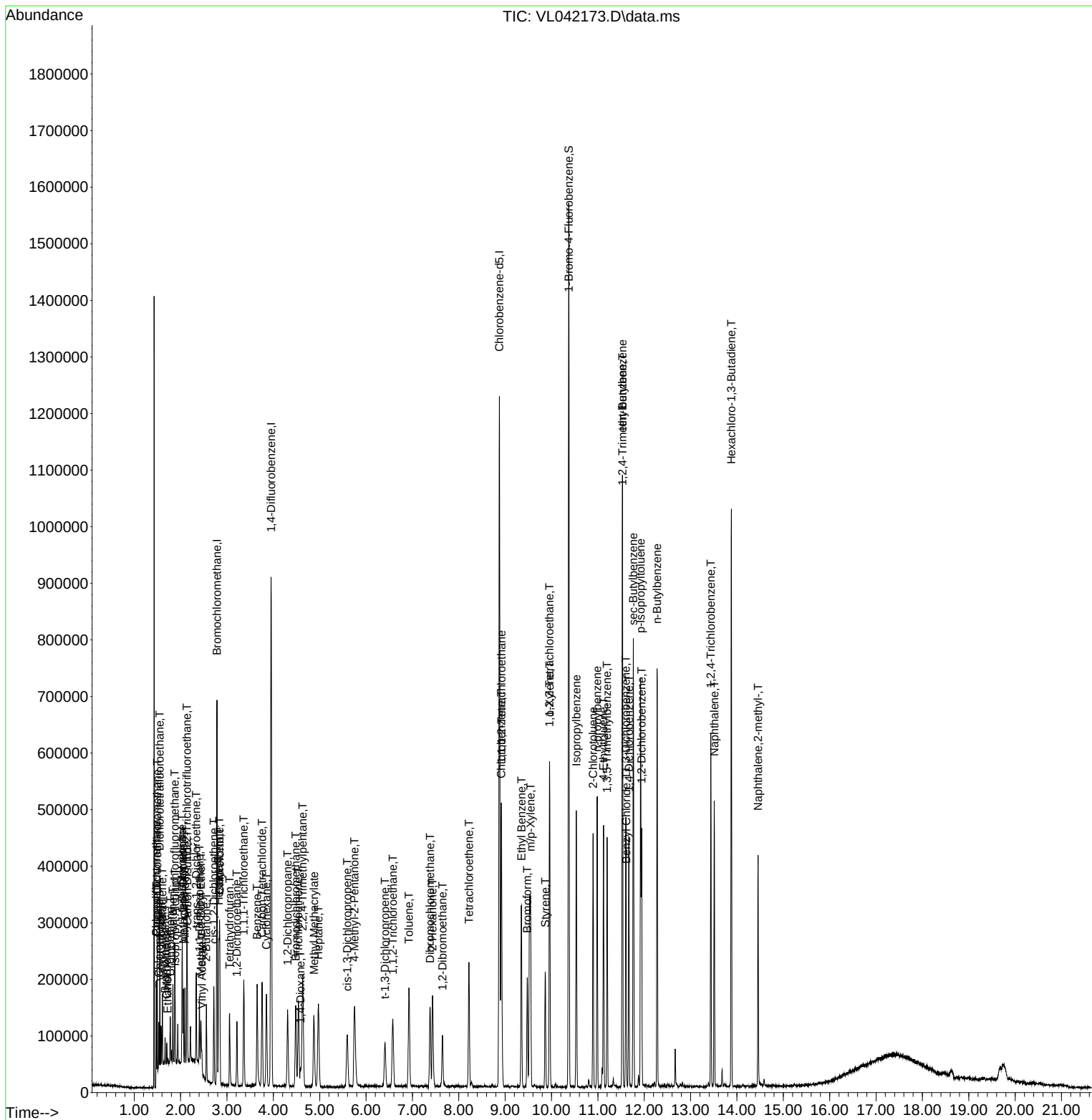
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 ClientSampleId :
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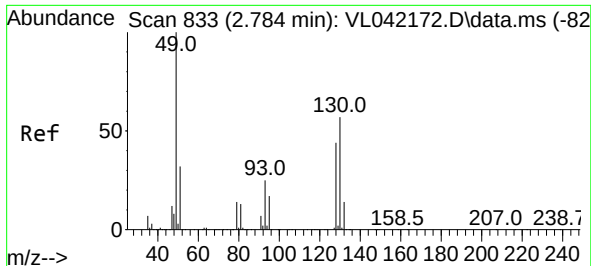
Quant Time: Mar 28 01:32:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

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

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_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

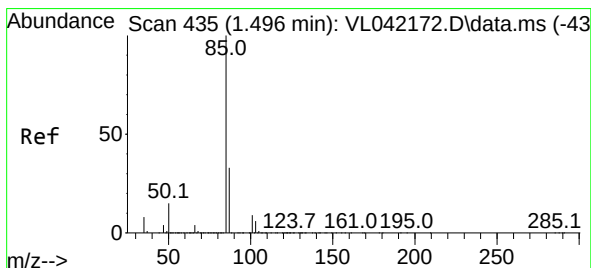
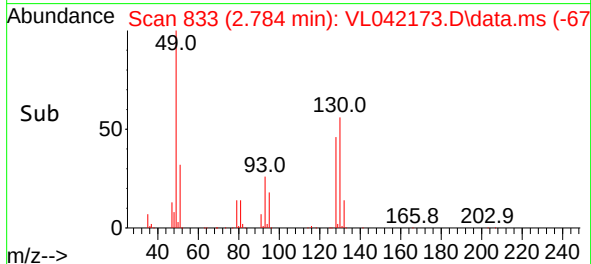
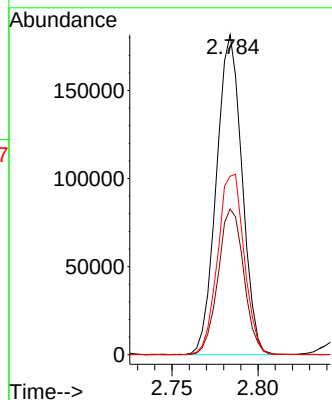
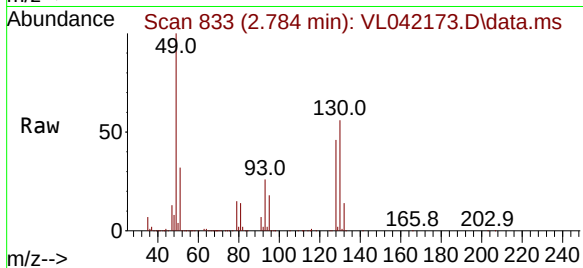




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.784 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

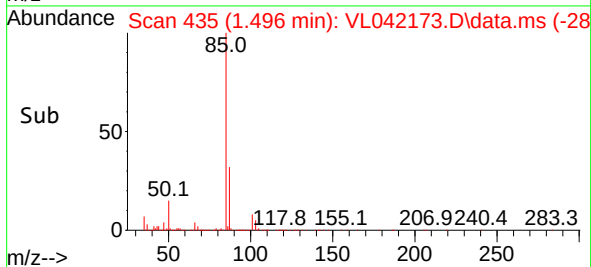
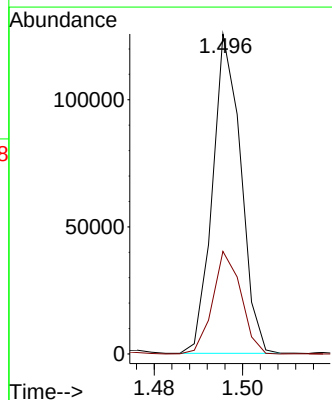
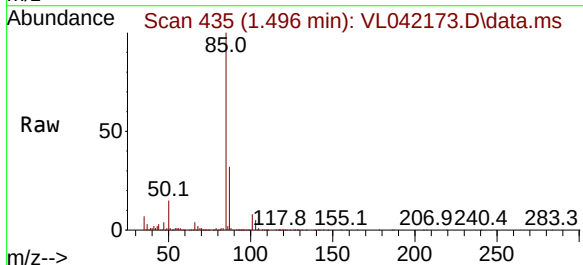
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

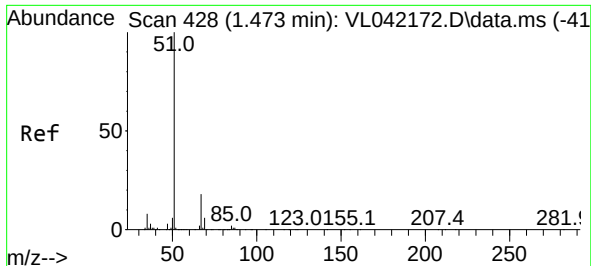
Tgt Ion: 49 Resp: 188395
 Ion Ratio Lower Upper
 49 100
 128 45.7 22.9 68.5
 130 58.5 28.8 86.4



#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

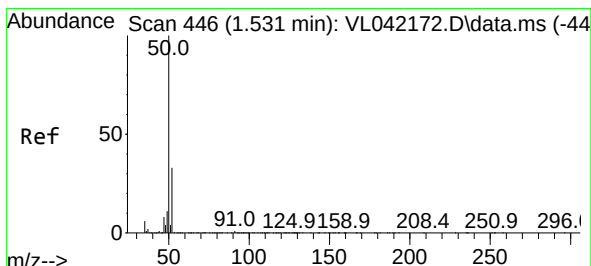
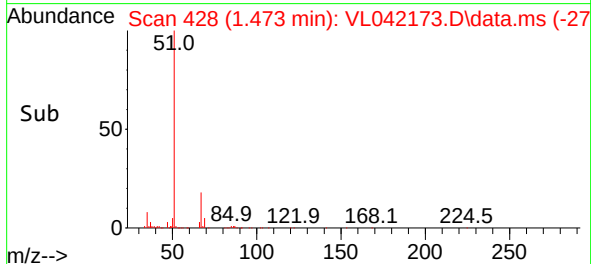
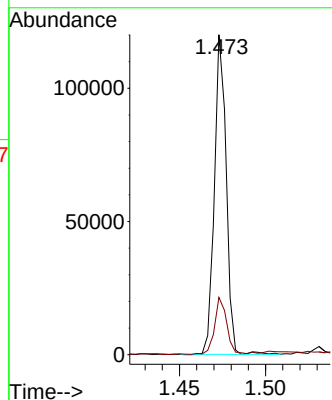
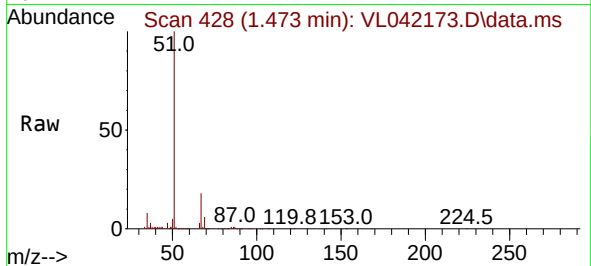




#3
Chlorodifluoromethane
Concen: 2.007 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

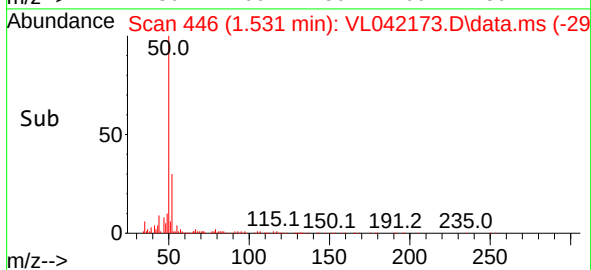
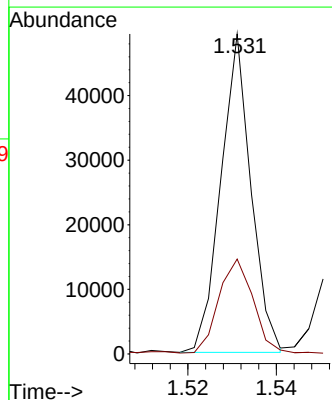
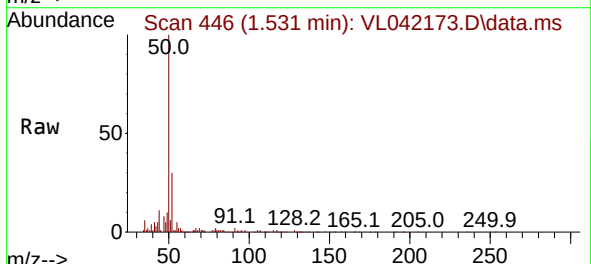
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ClientSampleId :
VSTDICC002

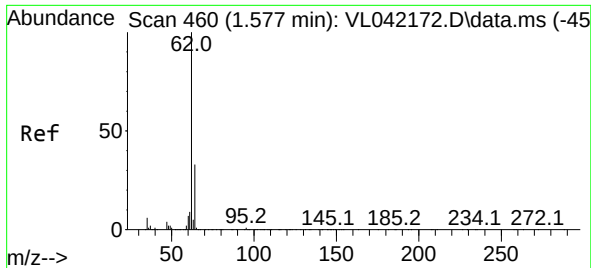
Tgt Ion: 51 Resp: 57045
Ion Ratio Lower Upper
51 100
67 19.4 15.0 22.6



#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

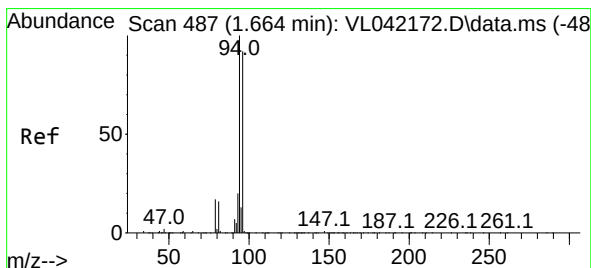
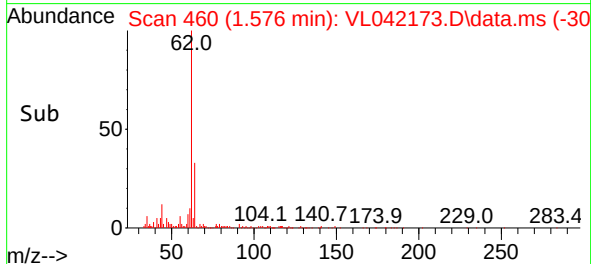
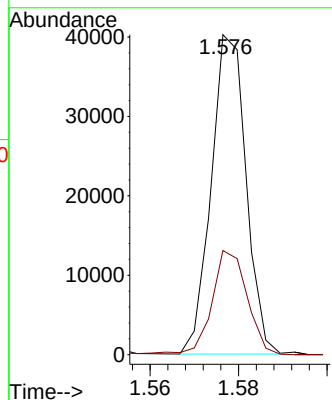
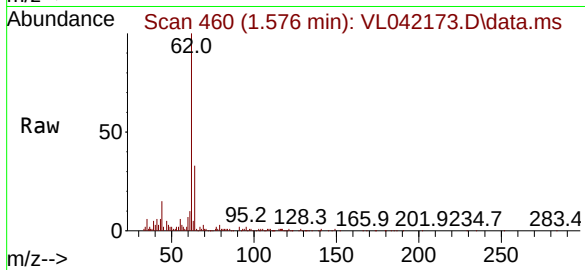




#5
 Vinyl Chloride
 Concen: 1.897 ppbv
 RT: 1.576 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

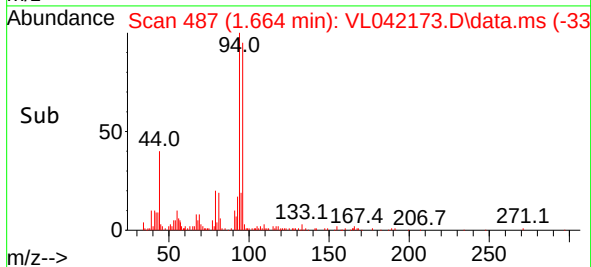
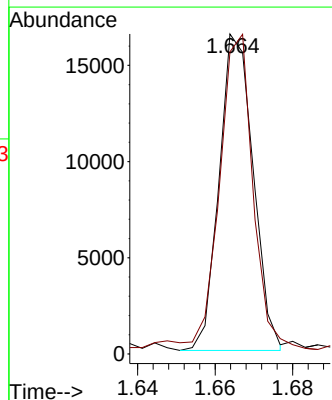
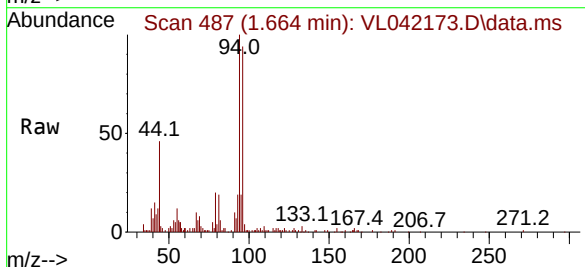
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

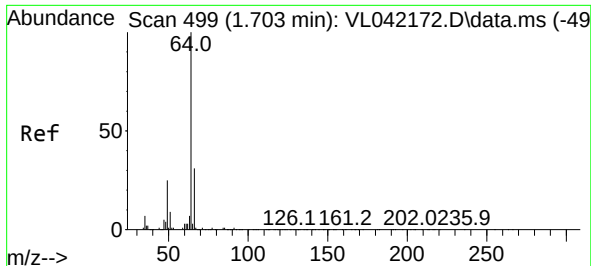
Tgt Ion: 62 Resp: 21989
 Ion Ratio Lower Upper
 62 100
 64 32.5 26.6 40.0



#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

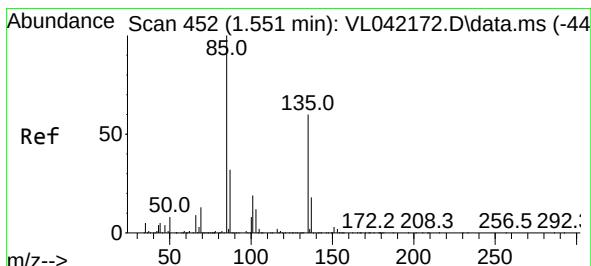
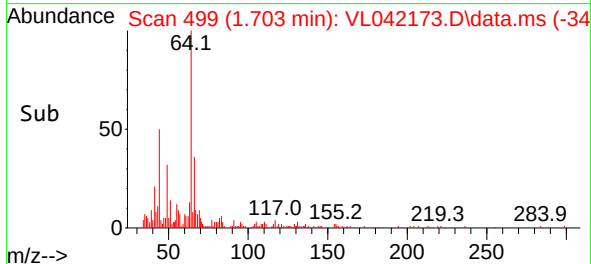
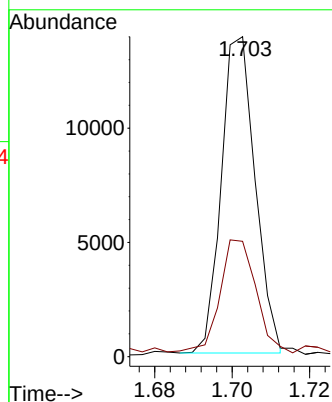
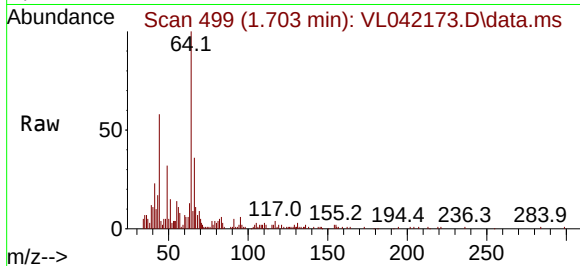




#7
Chloroethane
Concen: 1.844 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

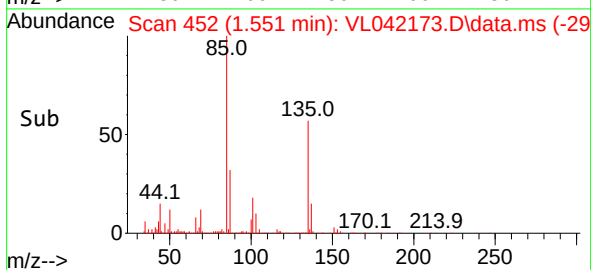
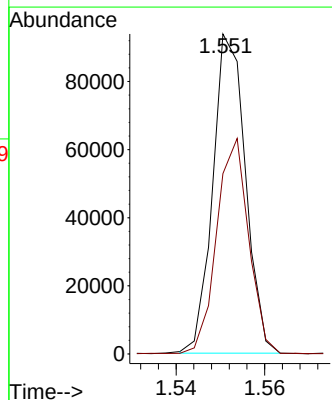
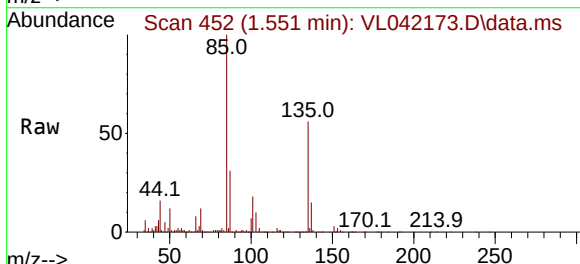
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

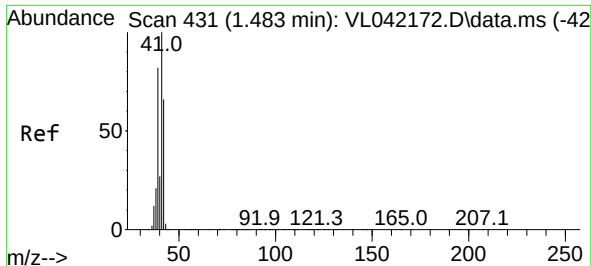
Tgt Ion: 64 Resp: 8413
Ion Ratio Lower Upper
64 100
66 36.1 25.2 37.8



#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 :

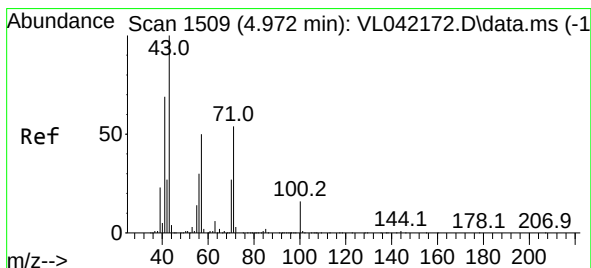
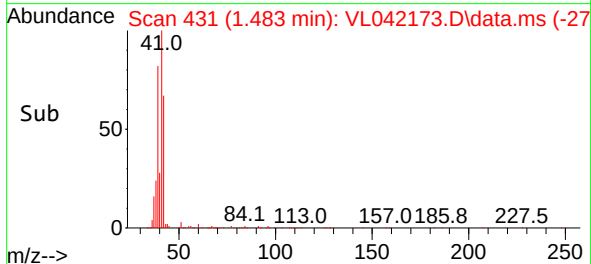
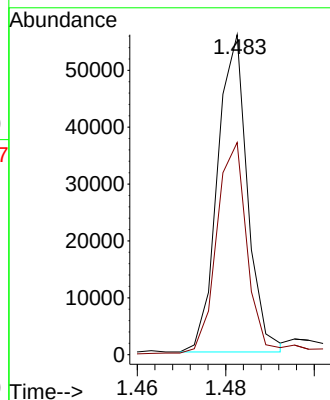
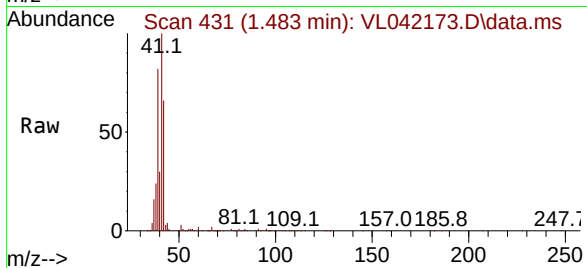
VSTDICC002

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

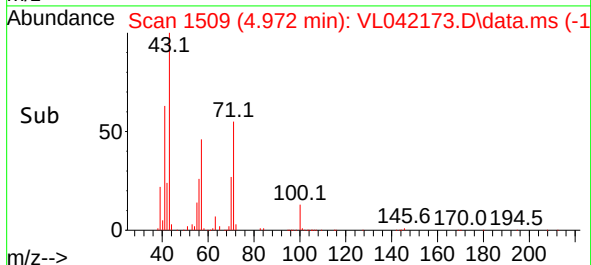
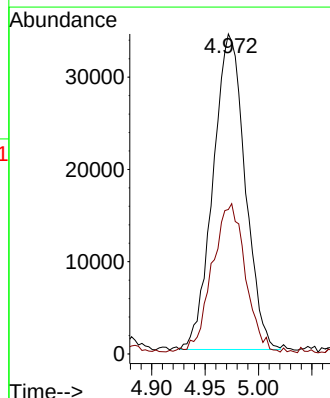
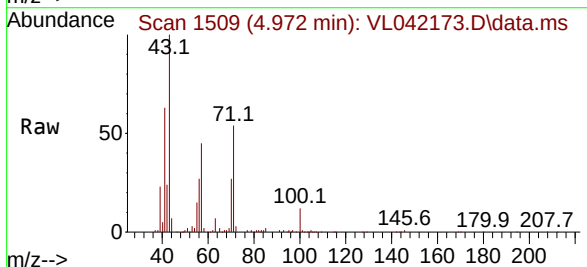
Acq: 27 Mar 2025 08:59

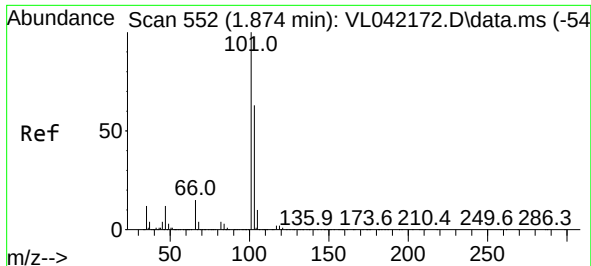
Tgt Ion: 43 Resp: 71466

Ion Ratio Lower Upper

43 100

57 49.6 39.4 59.2

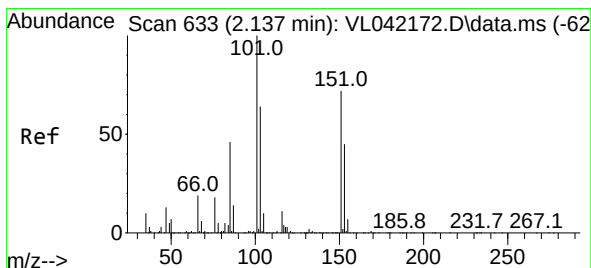
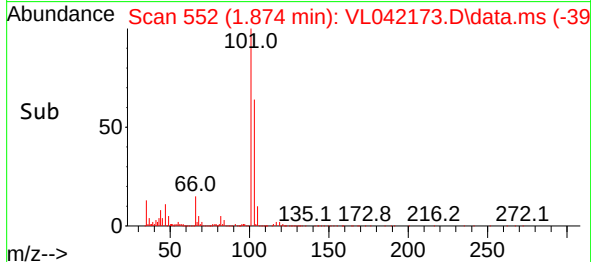
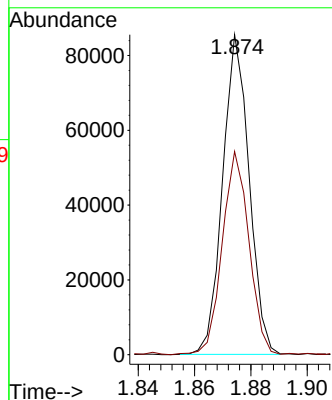
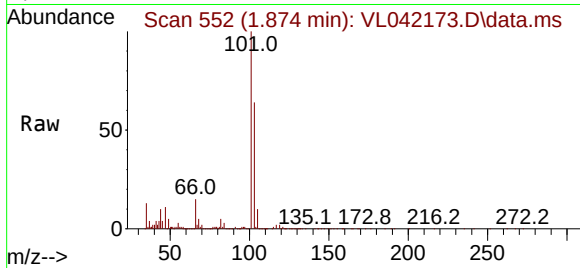




#11
 Trichlorofluoromethane
 Concen: 2.060 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

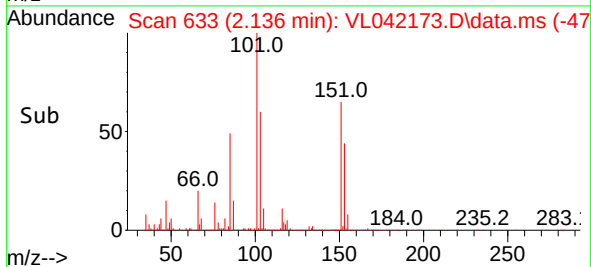
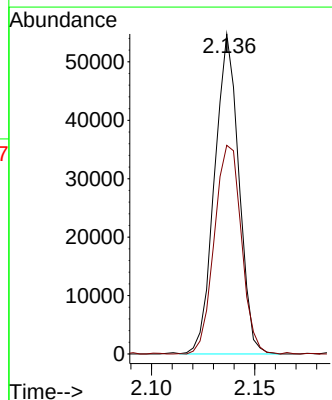
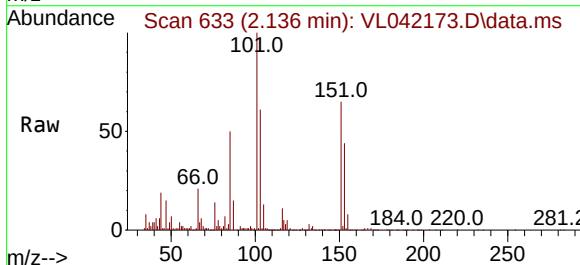
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

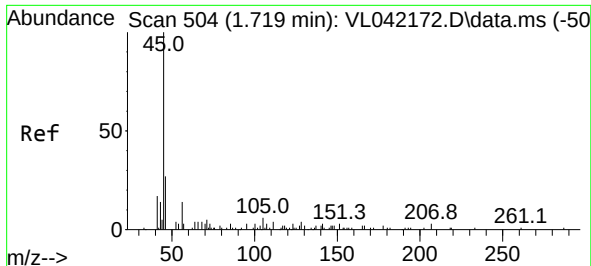
Tgt Ion:101 Resp: 55754
 Ion Ratio Lower Upper
 101 100
 103 63.5 50.2 75.2



#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

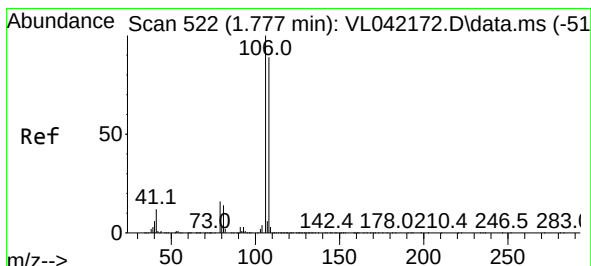
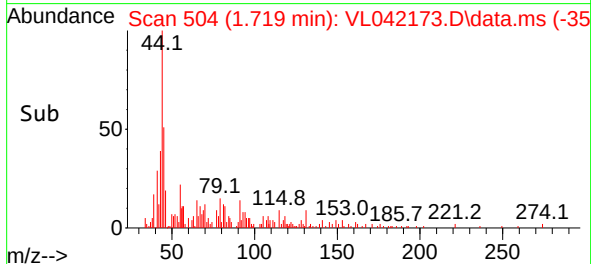
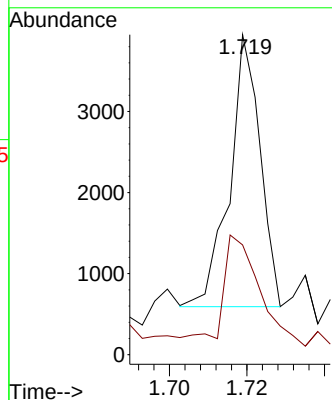
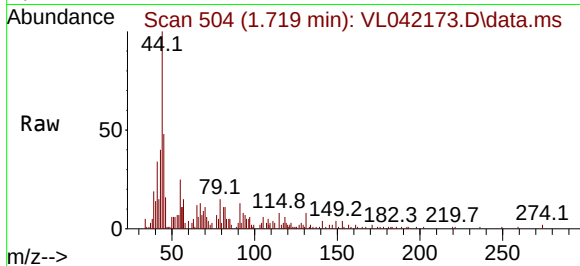




#13
Ethanol
Concen: 1.822 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

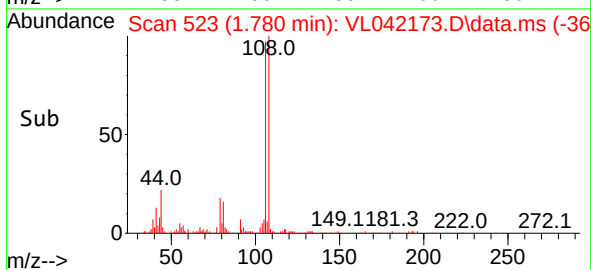
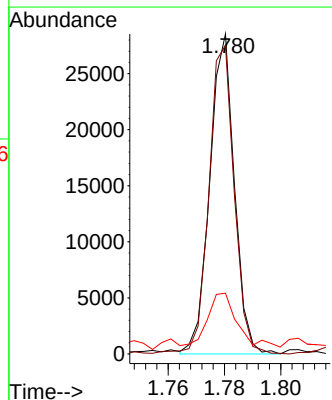
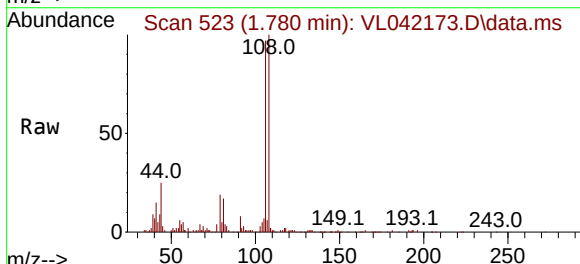
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

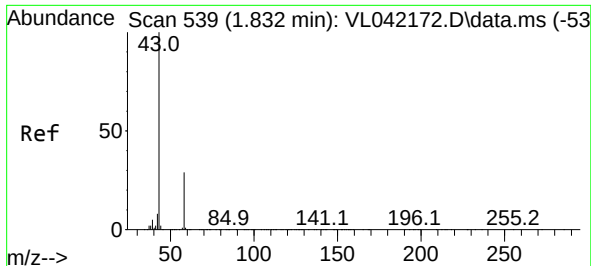
Tgt Ion: 45 Resp: 1827
Ion Ratio Lower Upper
45 100
46 85.6 20.2 80.8#



#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#

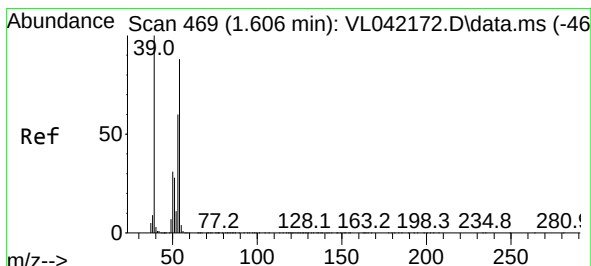
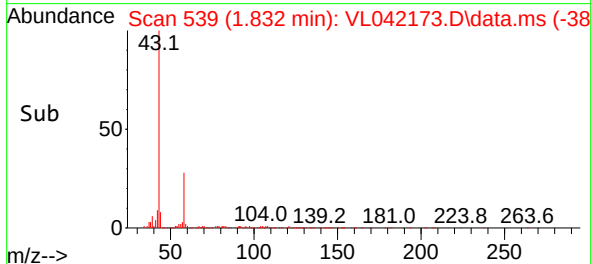
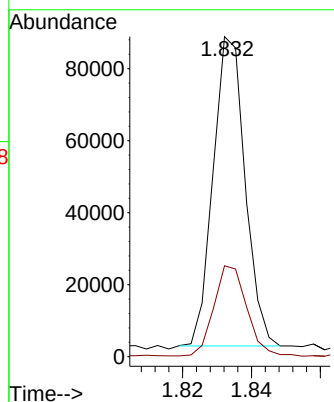
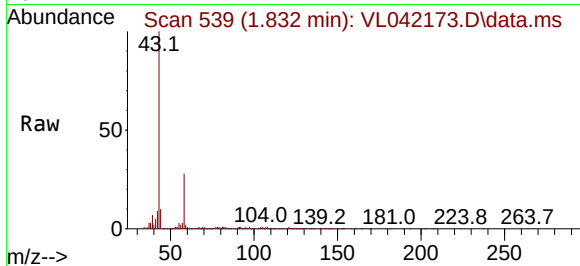




#15
Acetone
Concen: 2.101 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

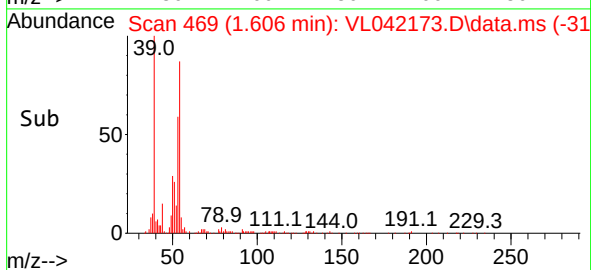
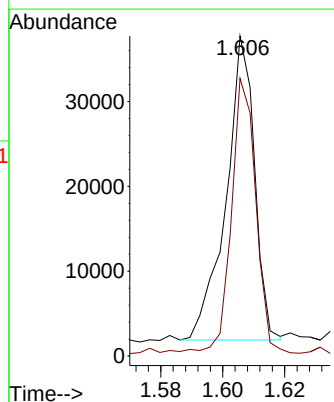
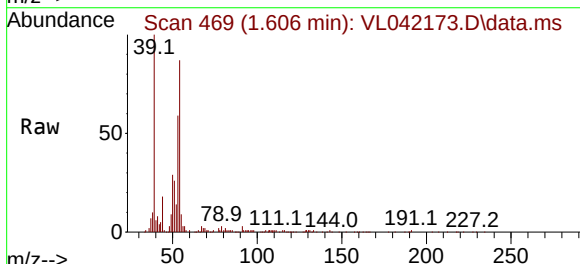
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

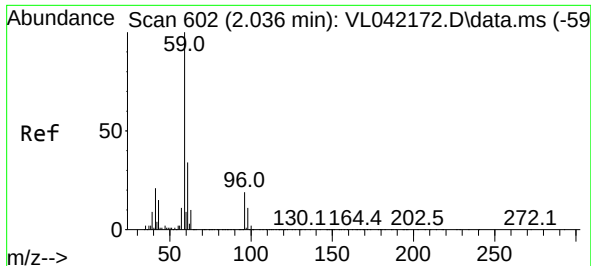
Tgt Ion: 43 Resp: 55365
Ion Ratio Lower Upper
43 100
58 31.8 23.2 34.8



#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 :

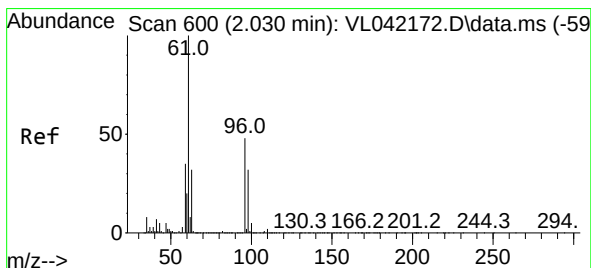
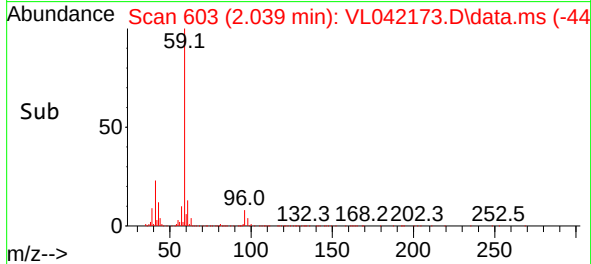
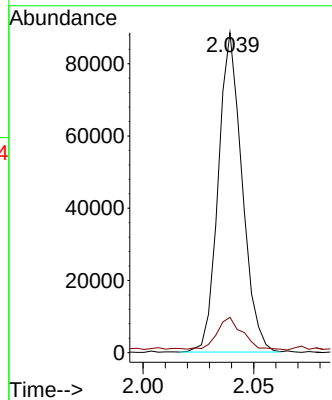
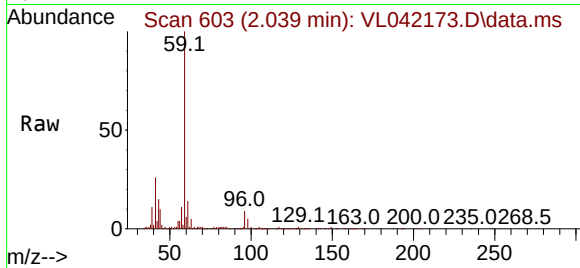
VSTDICC002

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

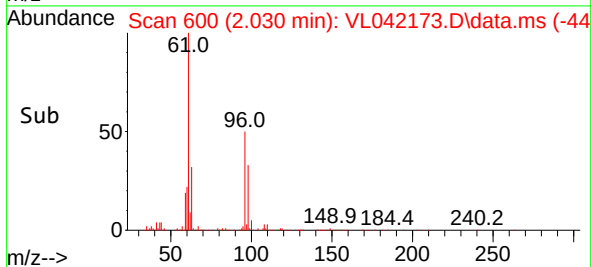
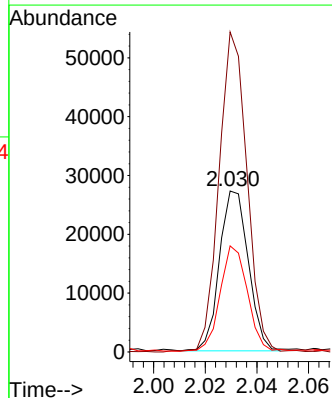
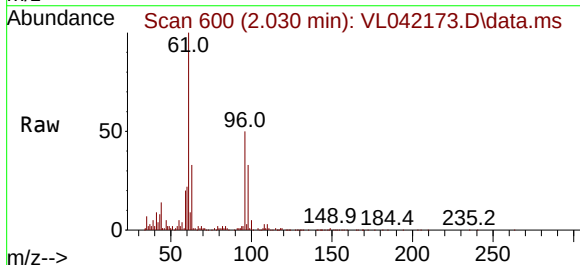
Tgt Ion: 96 Resp: 21103

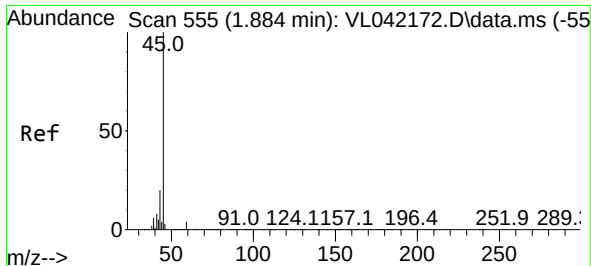
Ion Ratio Lower Upper

96 100

61 199.8 167.6 251.4

98 66.0 53.5 80.3

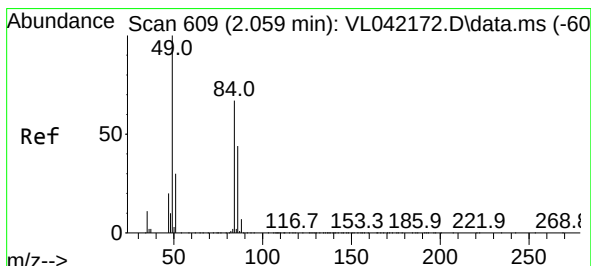
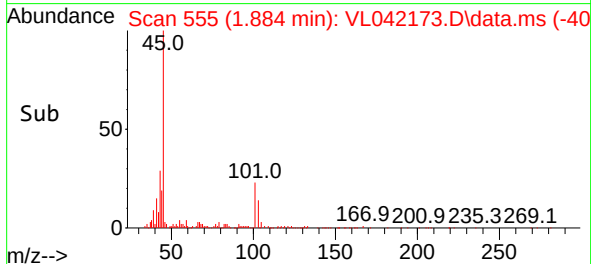
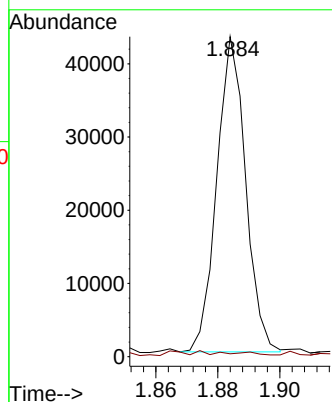
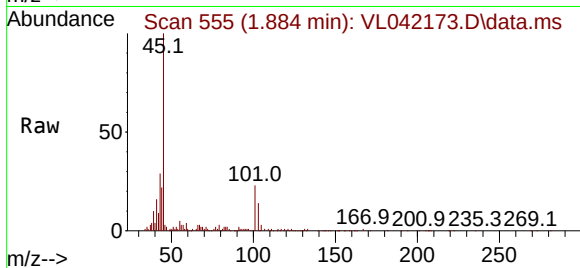




#19
Isopropyl Alcohol
Concen: 1.870 ppbv
RT: 1.884 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

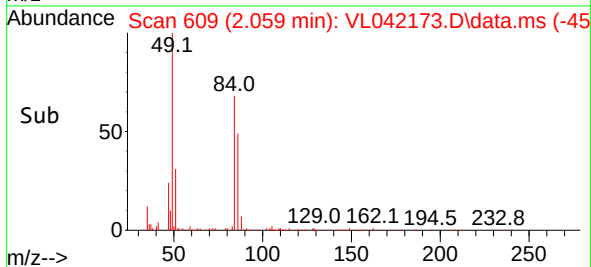
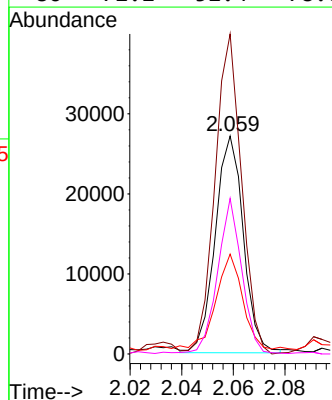
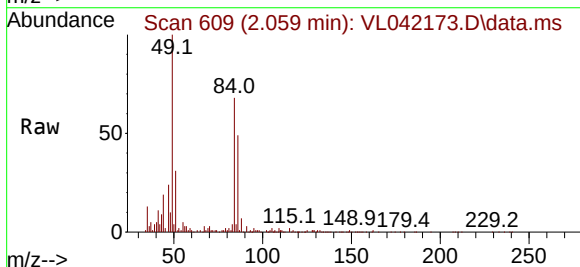
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

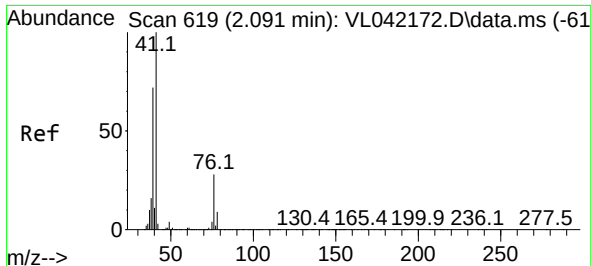
Tgt Ion: 45 Resp: 27804
Ion Ratio Lower Upper
45 100
58 3.3 36.9 55.3#



#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

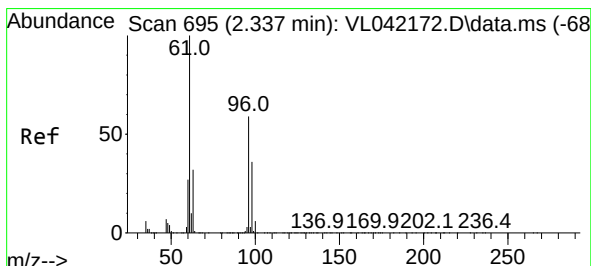
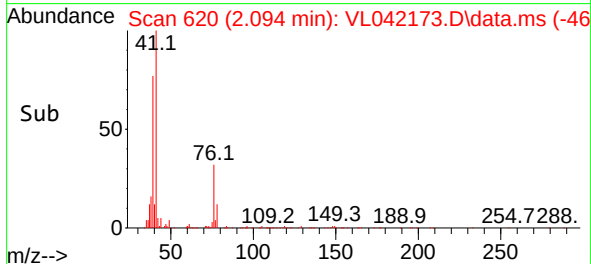
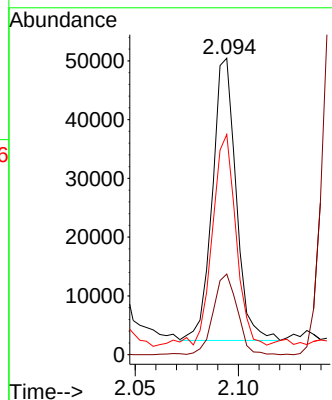
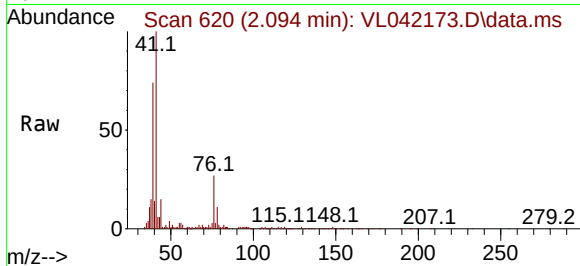




#21
 Allyl Chloride
 Concen: 2.068 ppbv
 RT: 2.094 min Scan# 619
 Delta R.T. 0.003 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

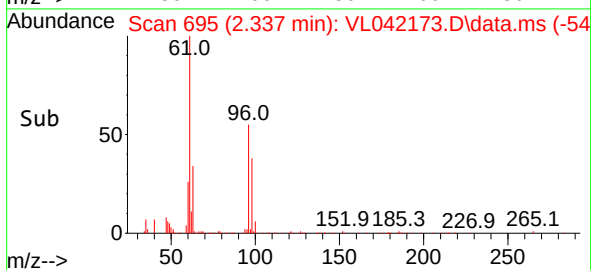
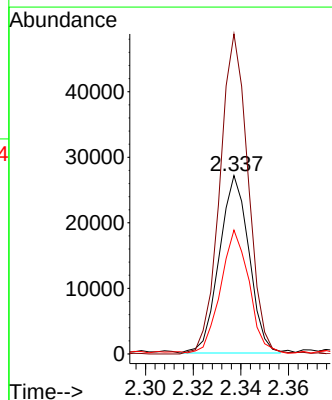
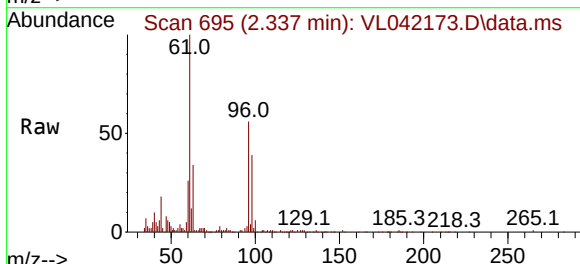
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

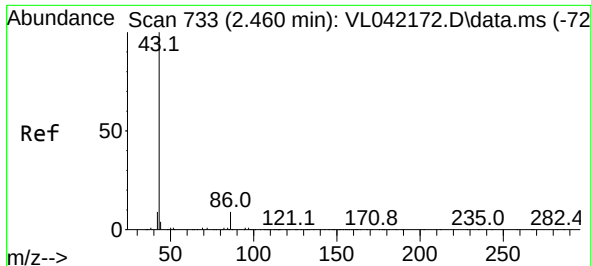
Tgt Ion: 41 Resp: 38425
 Ion Ratio Lower Upper
 41 100
 76 29.0 24.1 36.1
 39 77.5 61.1 91.7



#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

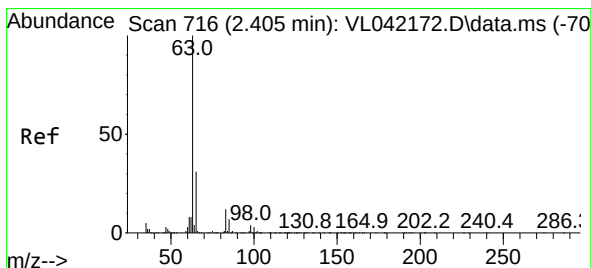
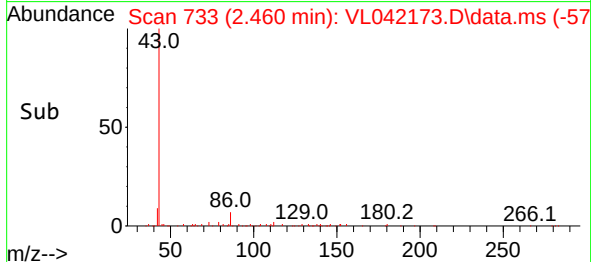
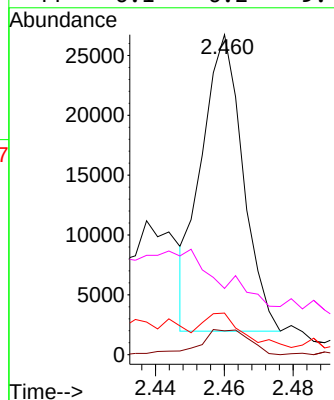
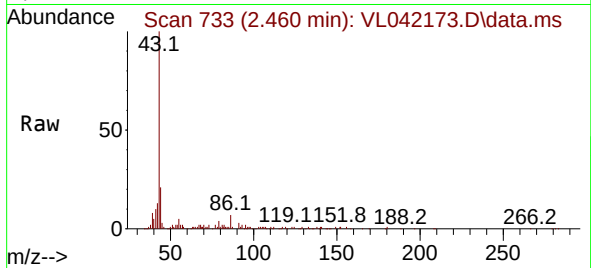




#23
 Vinyl Acetate
 Concen: 1.894 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

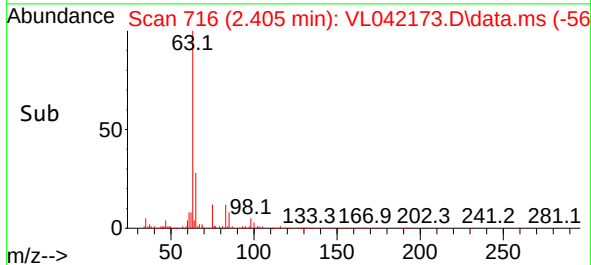
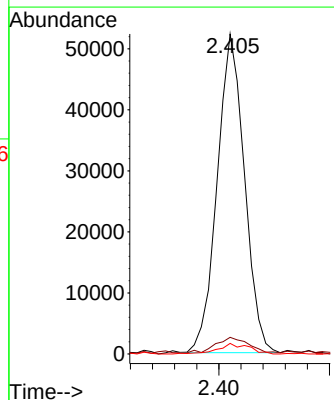
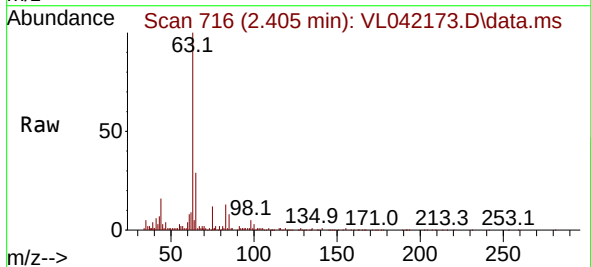
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

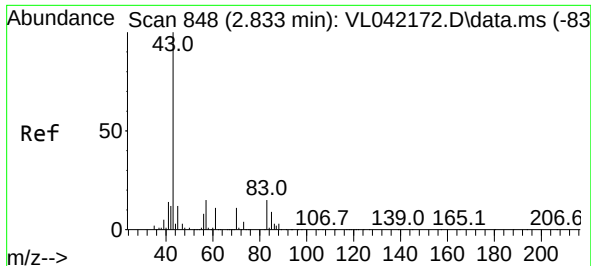
Tgt Ion: 43	Resp: 20736
Ion Ratio	Lower Upper
43 100	
86 8.1	5.5 8.3
42 10.4	8.6 13.0
44 6.1	6.2 9.4#



#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

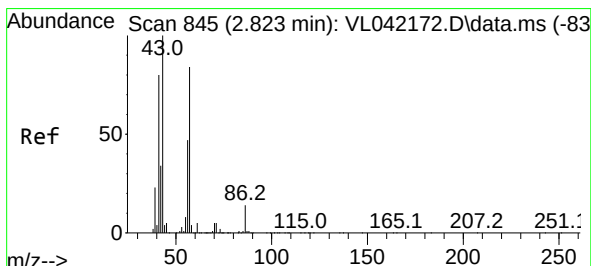
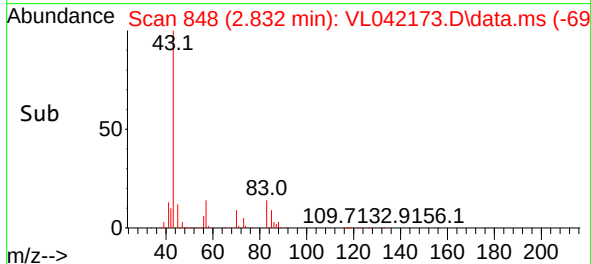
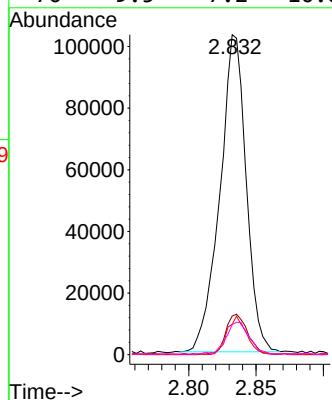
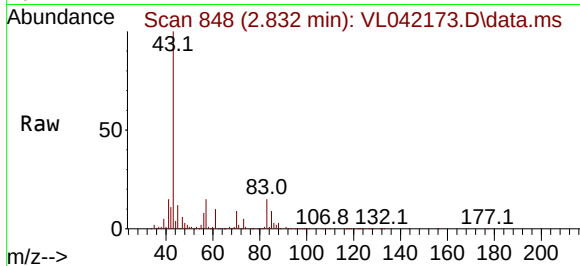




#25
Ethyl Acetate
Concen: 2.040 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

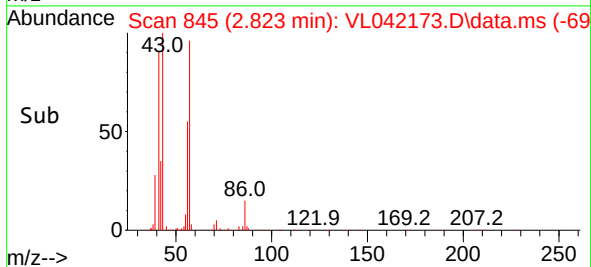
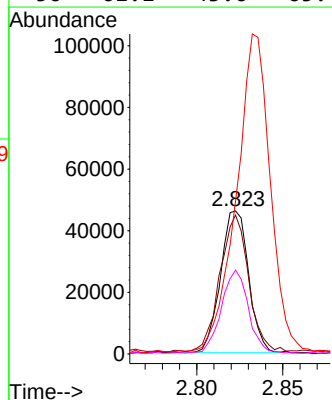
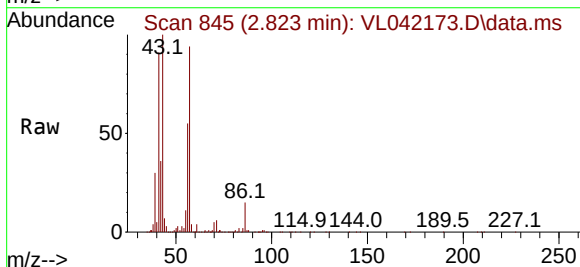
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

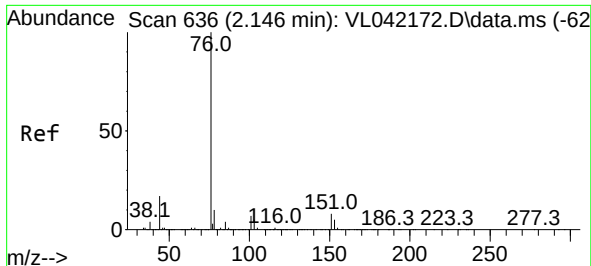
Tgt Ion: 43	Resp: 139516
Ion Ratio	Lower Upper
43 100	
45 10.9	8.2 12.2
61 9.1	7.3 10.9
70 9.5	7.2 10.8



#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

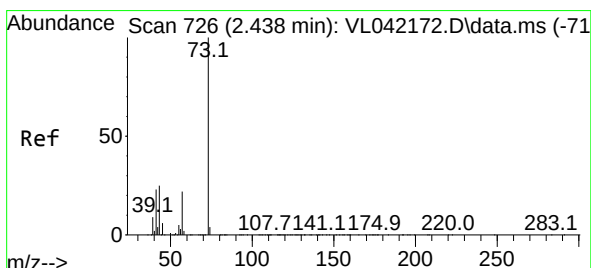
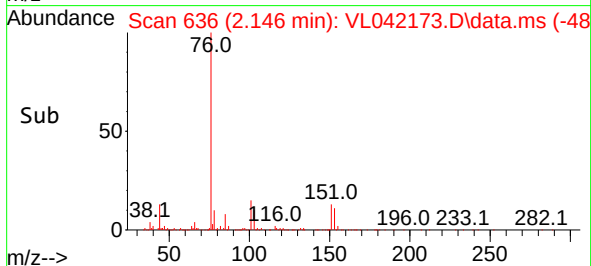
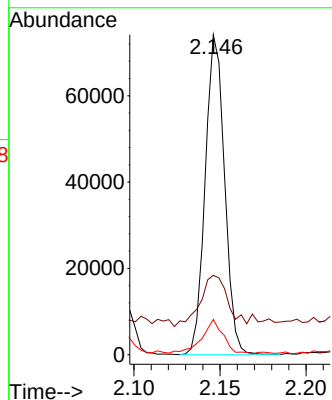
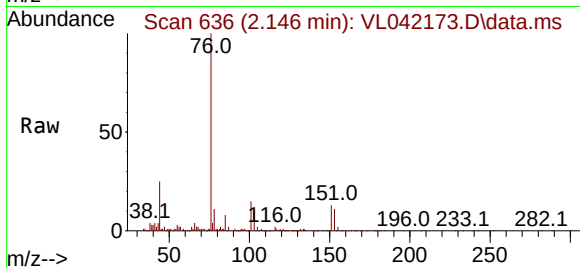
Tgt Ion: 76 Resp: 57969

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

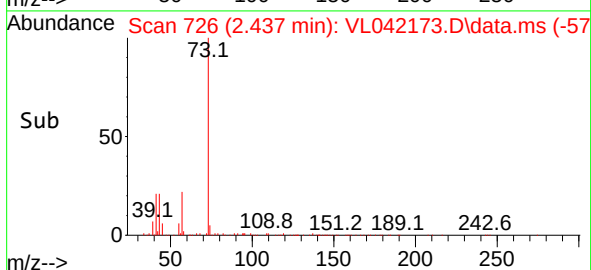
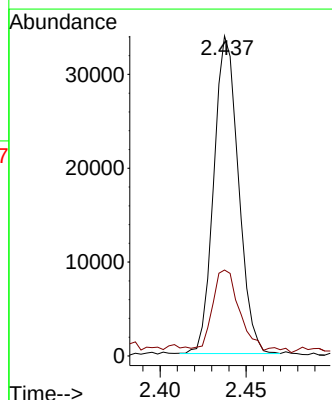
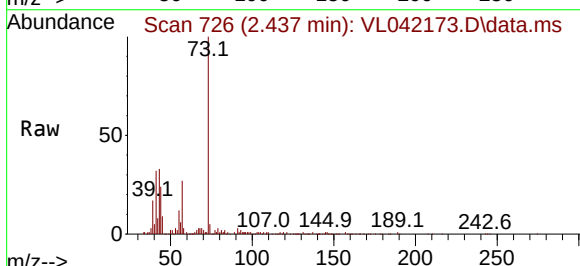
Acq: 27 Mar 2025 08:59

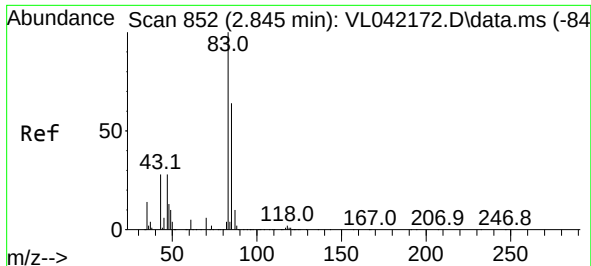
Tgt Ion: 73 Resp: 33703

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 :

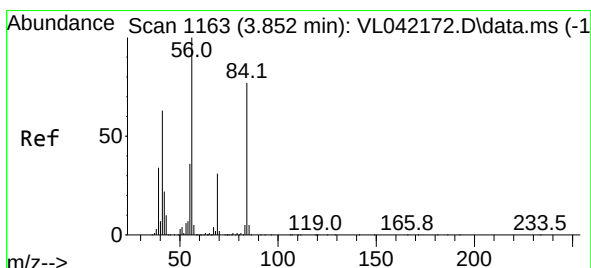
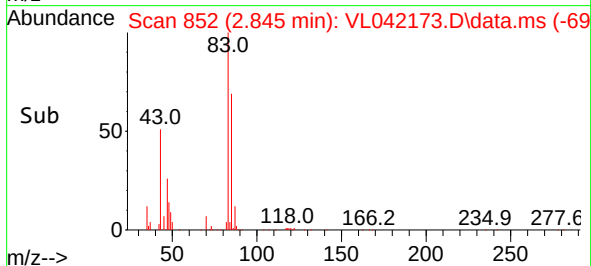
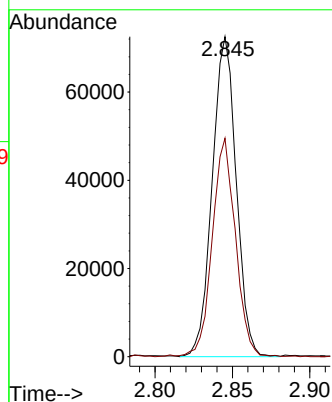
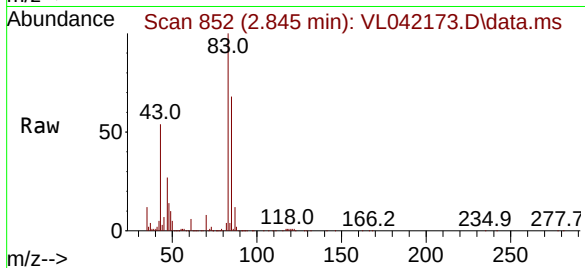
VSTDIC002

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

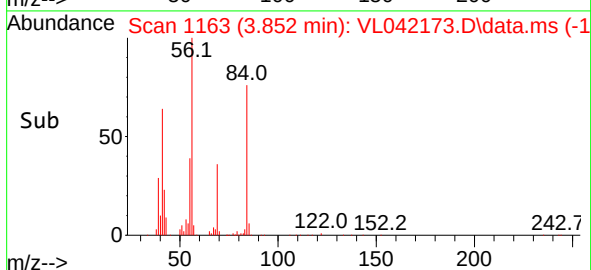
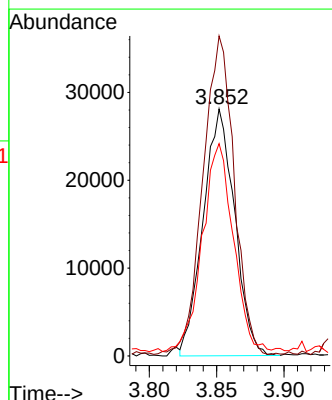
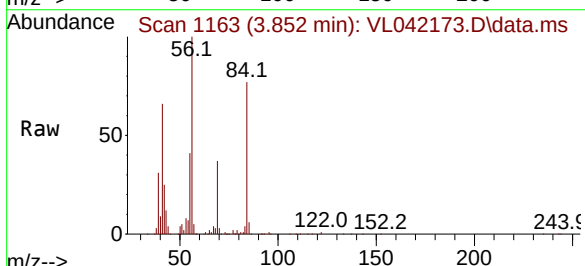
Tgt Ion: 84 Resp: 45641

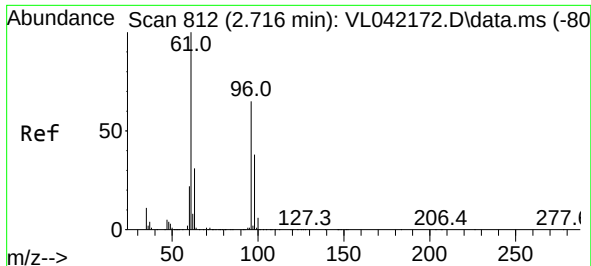
Ion Ratio Lower Upper

84 100

56 127.8 102.8 154.2

41 84.6 66.5 99.7

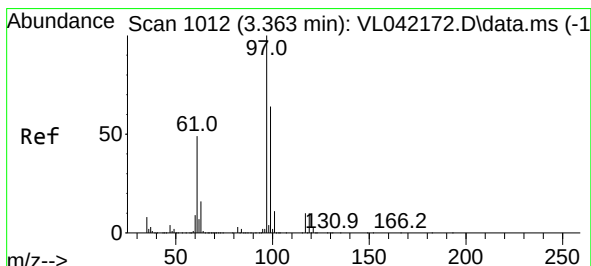
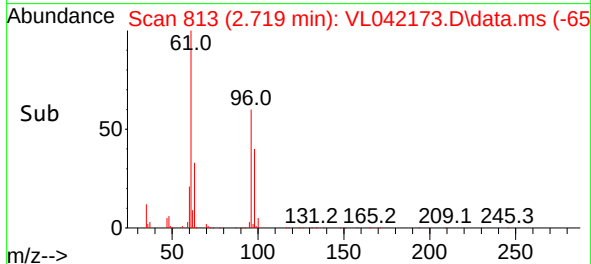
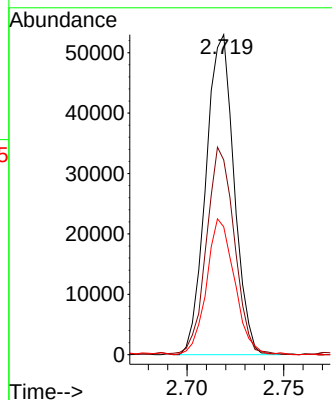
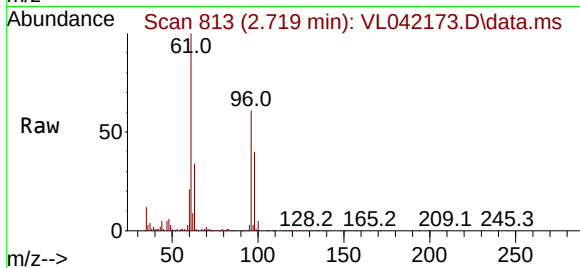




#31
 cis-1,2-Dichloroethene
 Concen: 2.003 ppbv
 RT: 2.719 min Scan# 812
 Delta R.T. 0.003 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

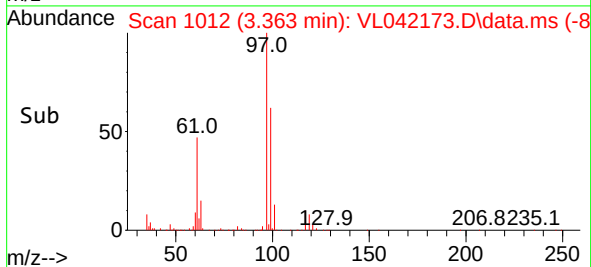
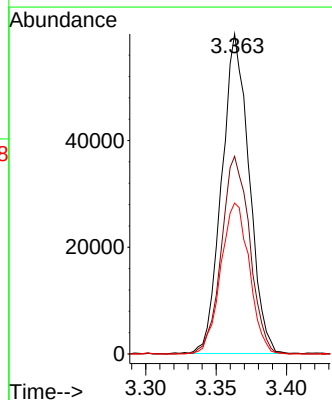
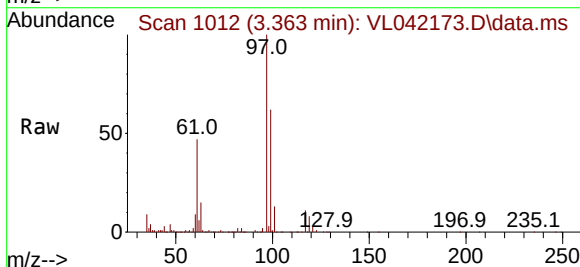
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

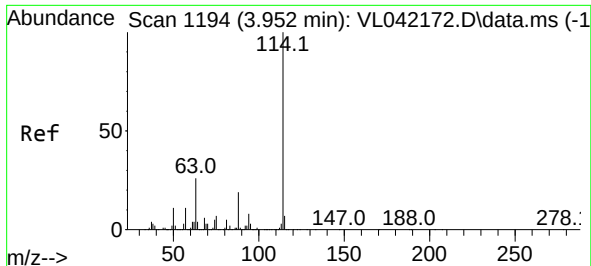
Tgt Ion: 61 Resp: 53713
 Ion Ratio Lower Upper
 61 100
 96 60.6 51.8 77.8
 98 39.6 30.6 46.0



#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

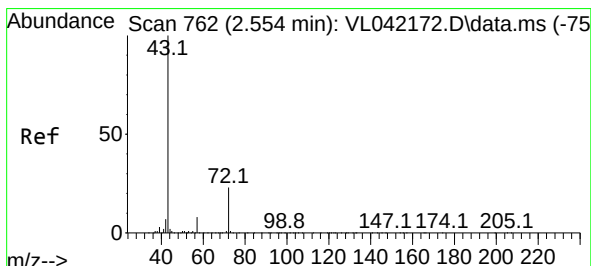
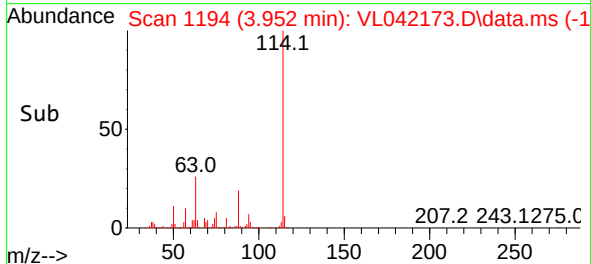
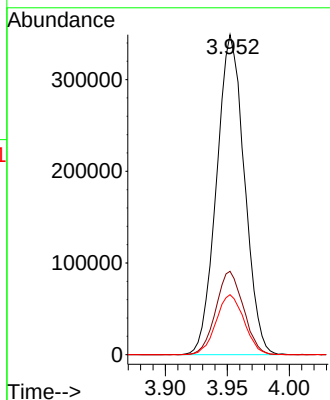
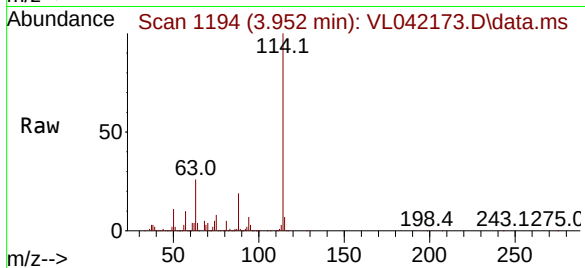




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

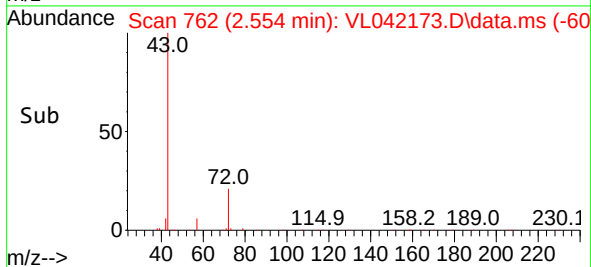
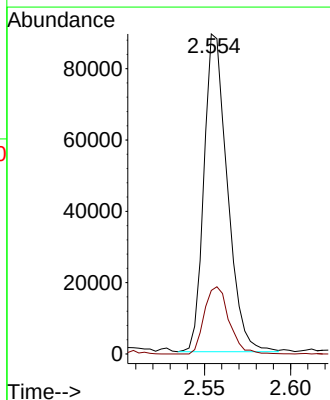
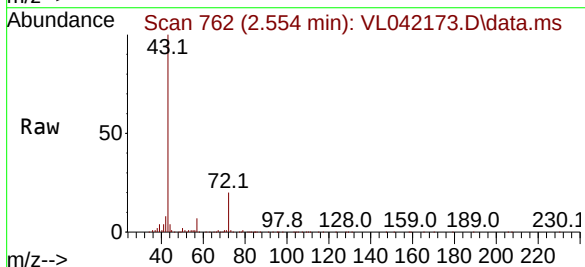
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

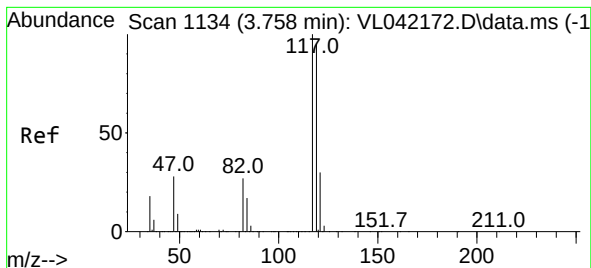
Tgt Ion:114 Resp: 546394
Ion Ratio Lower Upper
114 100
63 25.9 20.7 31.1
88 18.9 15.0 22.4



#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 :

VSTDICC002

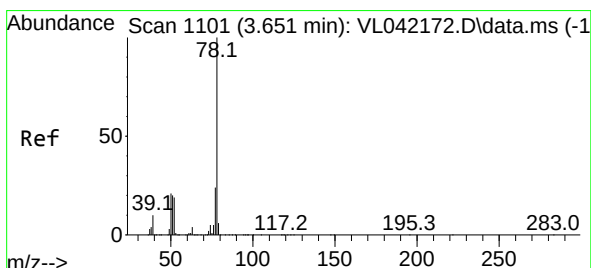
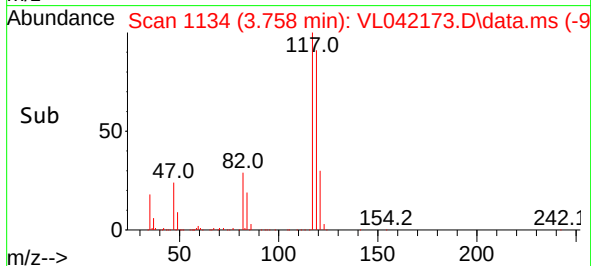
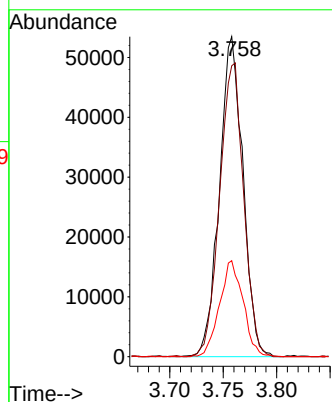
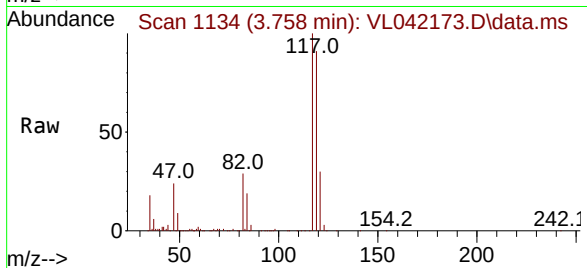
Tgt Ion:117 Resp: 81735

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

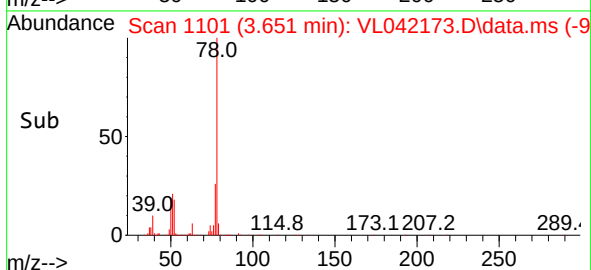
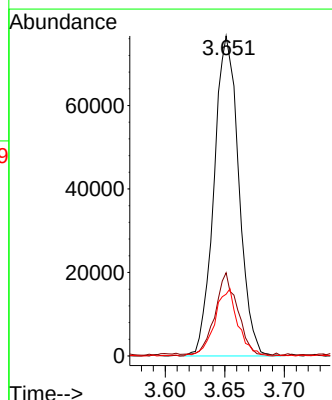
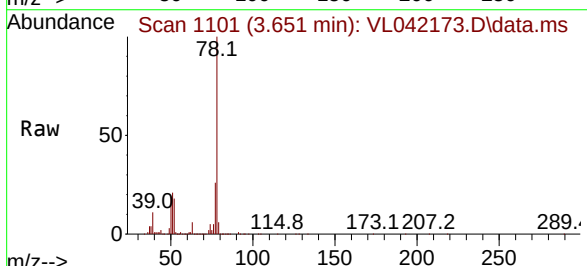
Tgt Ion: 78 Resp: 110727

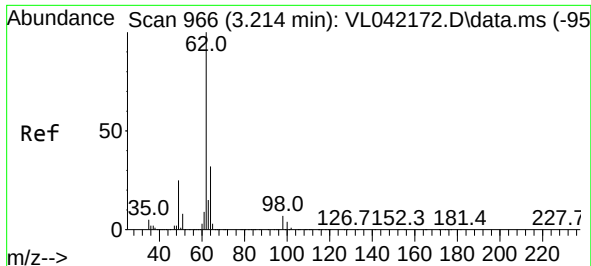
Ion Ratio Lower Upper

78 100

77 25.7 19.1 28.7

50 19.3 16.6 24.8

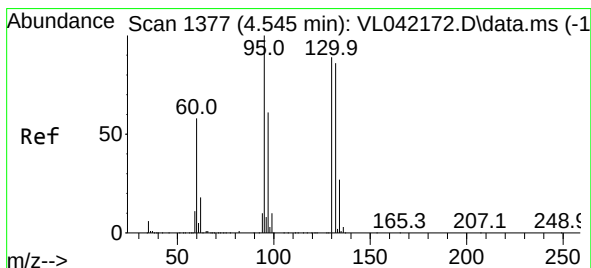
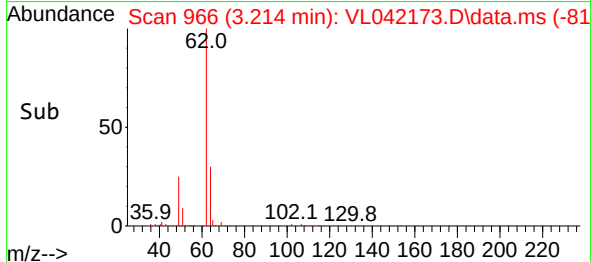
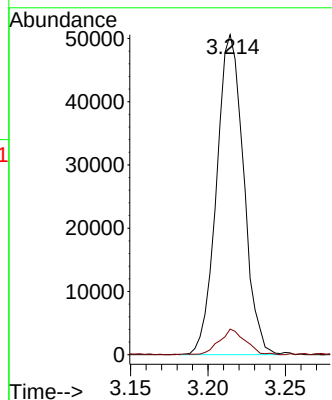
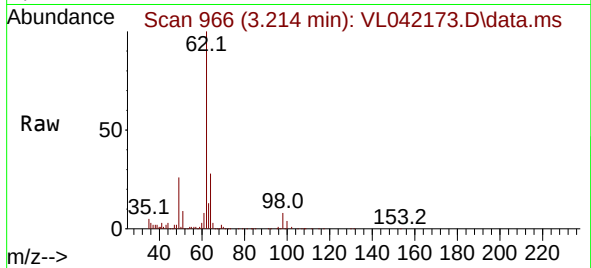




#37
1,2-Dichloroethane
Concen: 1.982 ppbv
RT: 3.214 min Scan# 966
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

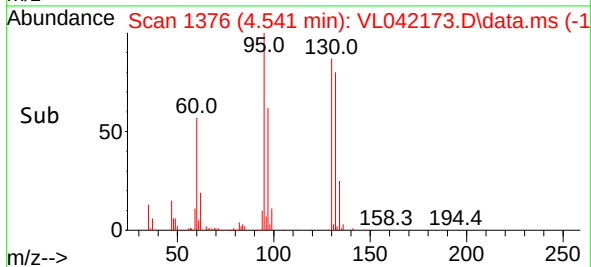
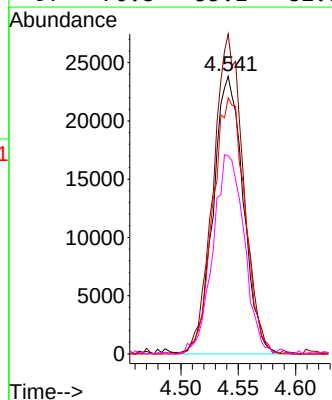
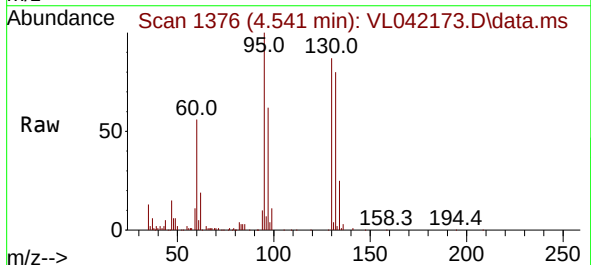
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

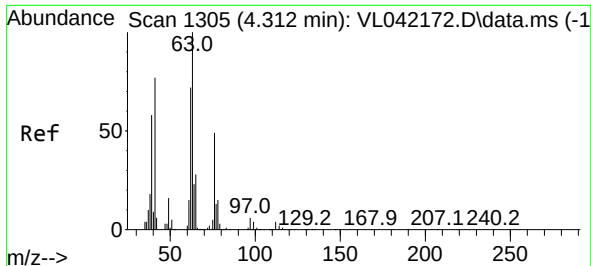
Tgt Ion: 62 Resp: 61476
Ion Ratio Lower Upper
62 100
98 7.7 5.4 8.2



#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 :

VSTDIC002

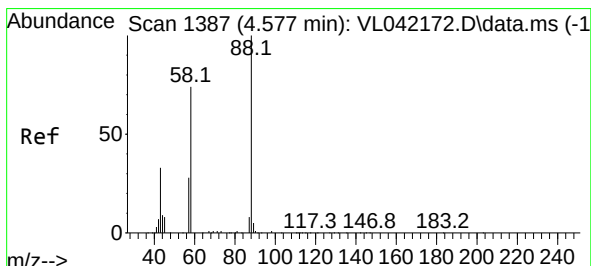
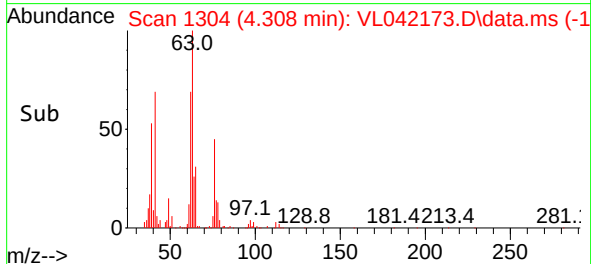
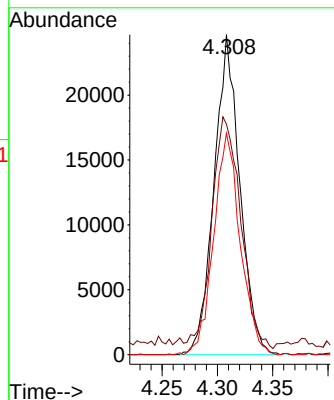
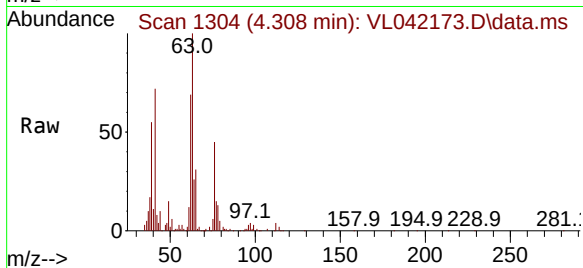
Tgt Ion: 63 Resp: 39912

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

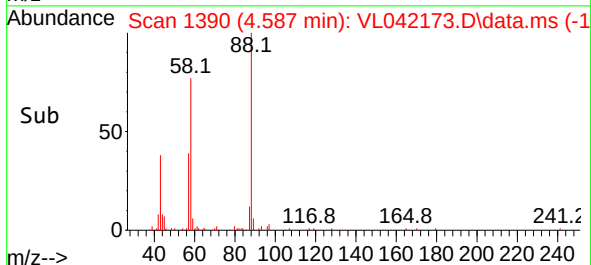
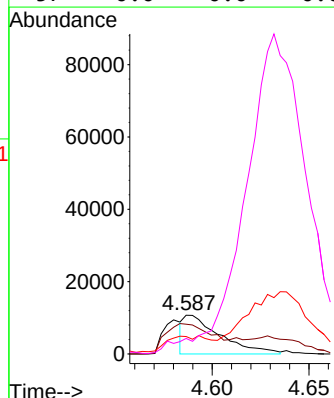
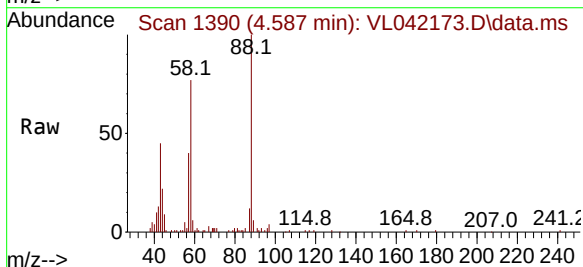
Ion Ratio Lower Upper

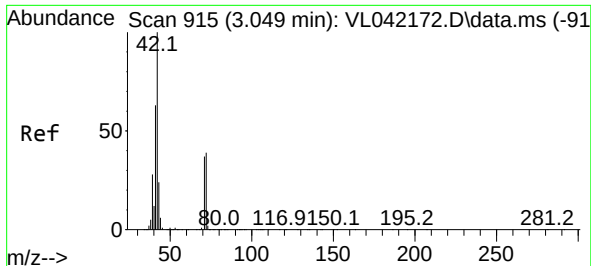
88 100

58 178.2 62.7 94.1#

43 0.0 23.0 34.4#

57 0.0 0.0 0.0

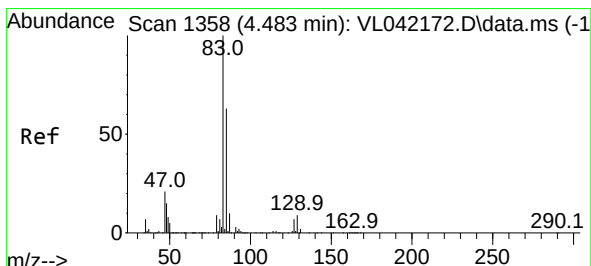
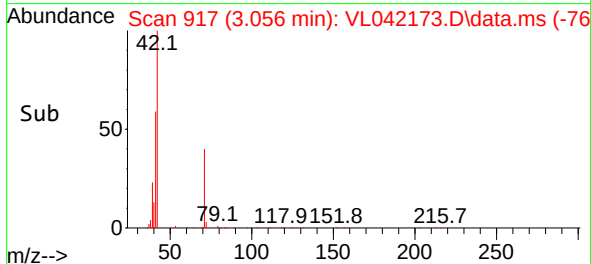
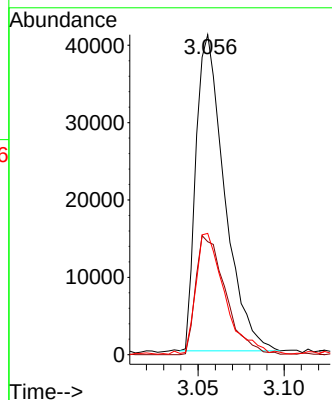
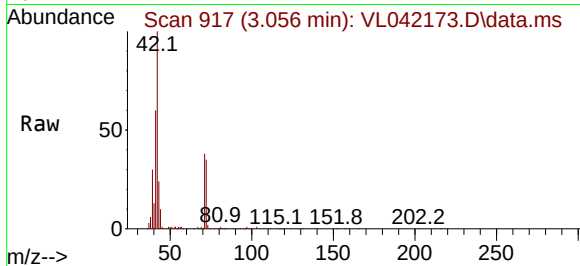




#41
Tetrahydrofuran
Concen: 2.097 ppbv
RT: 3.056 min Scan# 915
Delta R.T. 0.006 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

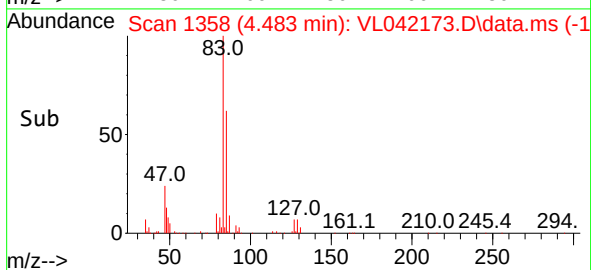
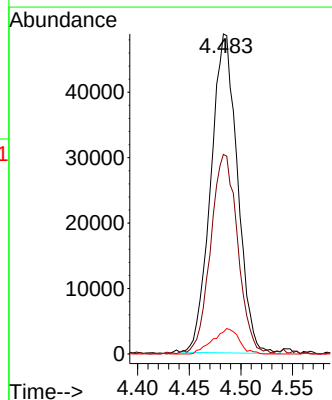
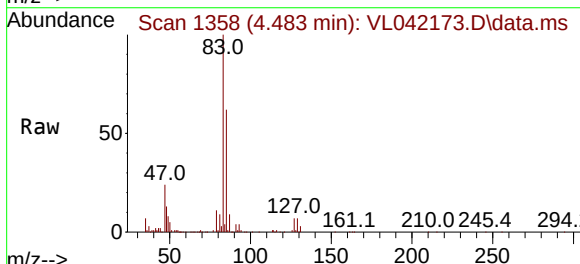
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

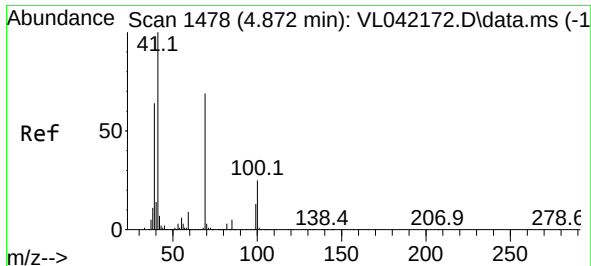
Tgt Ion: 42 Resp: 47262
Ion Ratio Lower Upper
42 100
72 39.6 31.4 47.0
71 39.0 30.2 45.4



#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

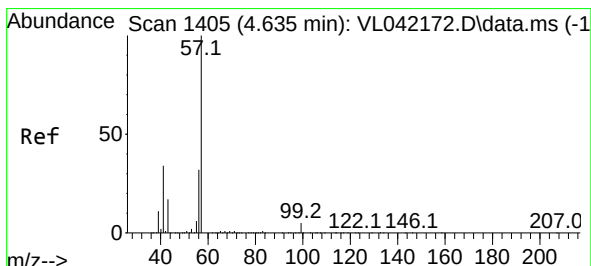
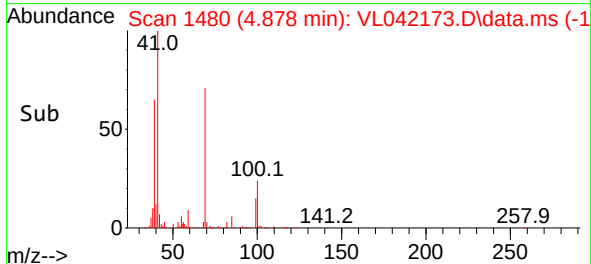
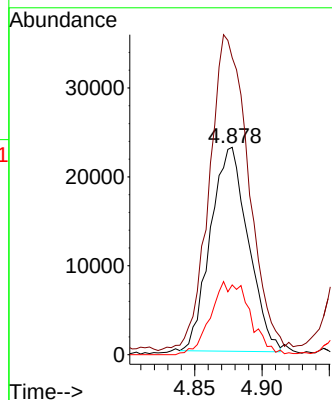
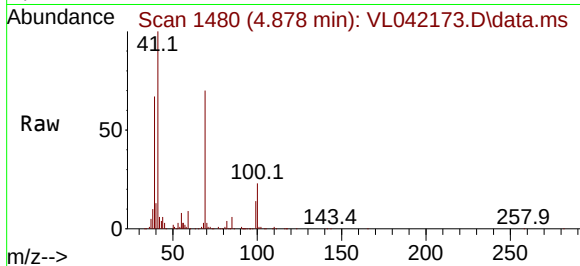




#43
Methyl Methacrylate
Concen: 1.952 ppbv
RT: 4.878 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

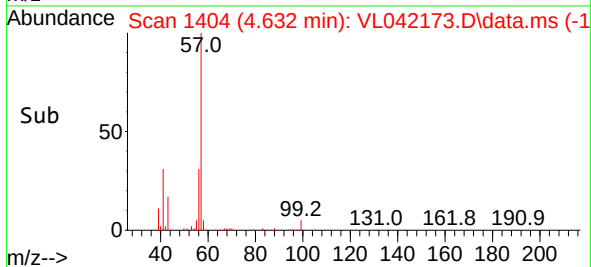
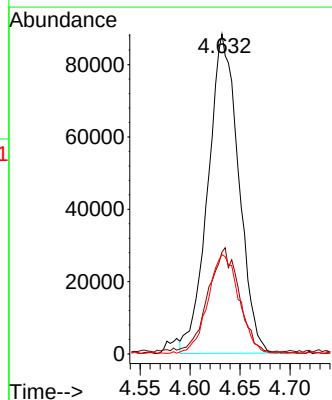
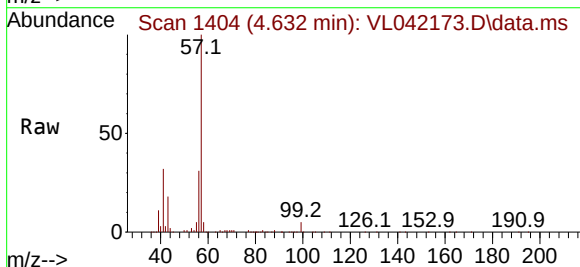
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

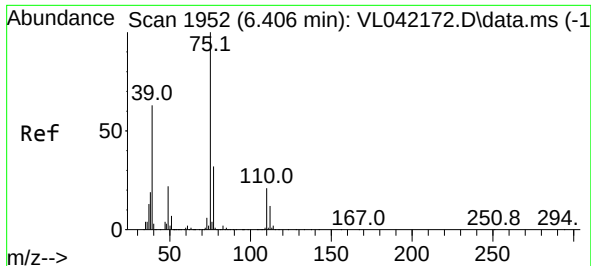
Tgt Ion: 69 Resp: 44624
Ion Ratio Lower Upper
69 100
41 158.7 123.8 185.6
100 37.5 28.4 42.6



#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 :

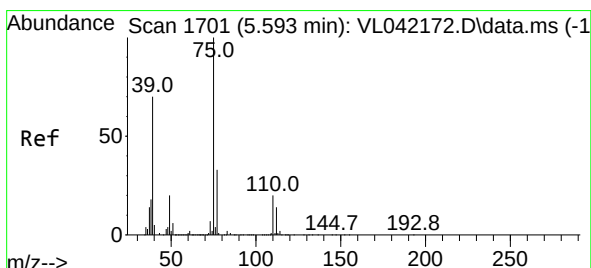
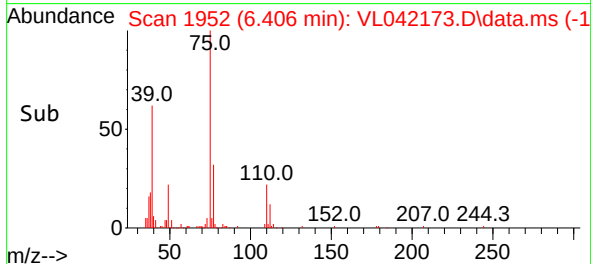
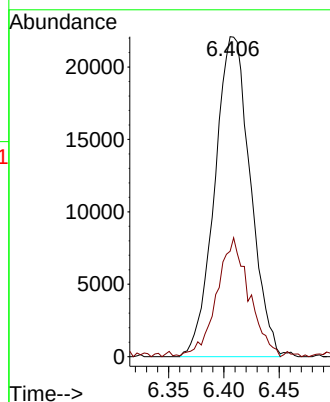
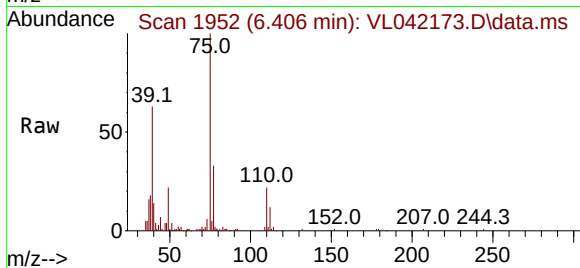
VSTDIC002

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

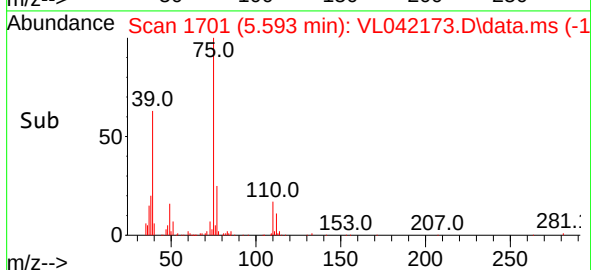
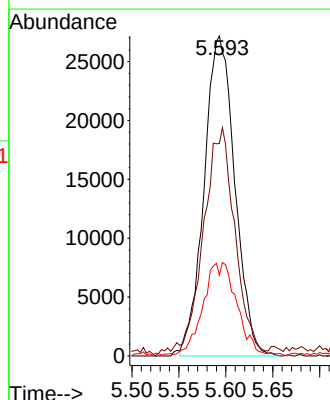
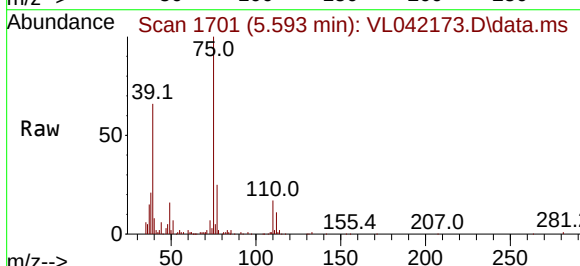
Tgt Ion: 75 Resp: 61829

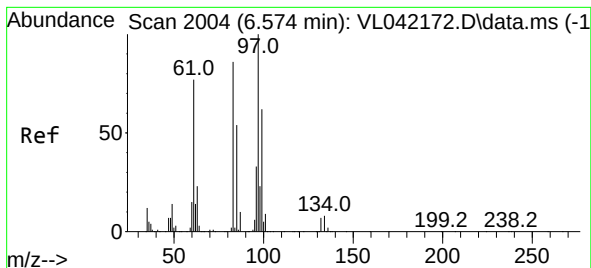
Ion Ratio Lower Upper

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

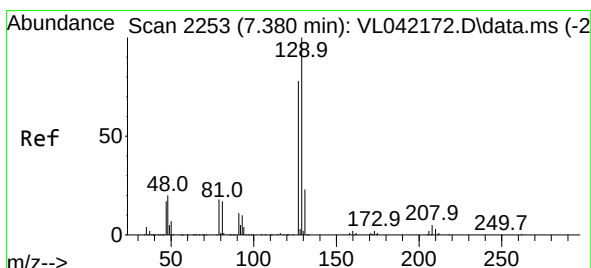
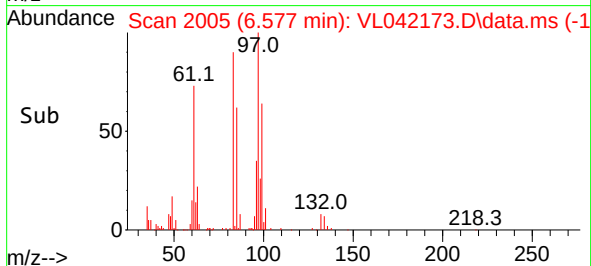
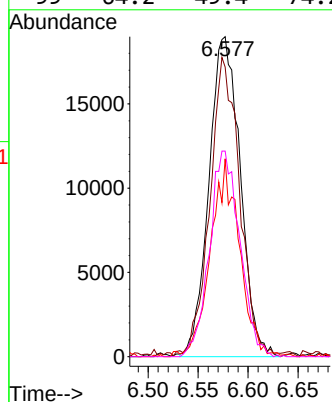
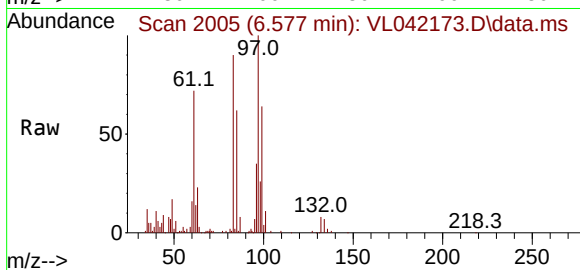
Ion Ratio Lower Upper

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

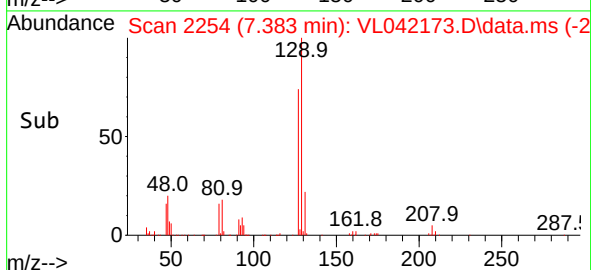
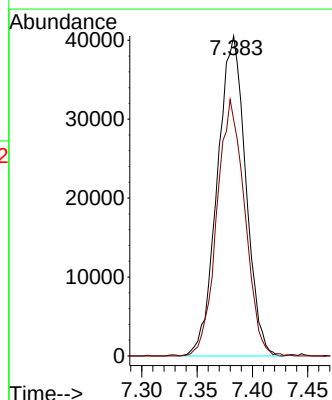
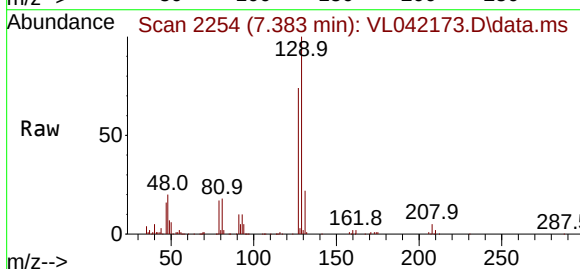
Acq: 27 Mar 2025 08:59

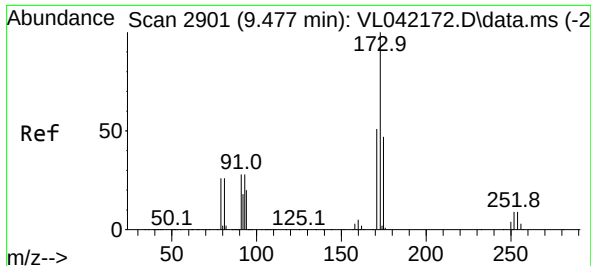
Tgt Ion: 129 Resp: 72441

Ion Ratio Lower Upper

129 100

127 78.5 39.1 117.2

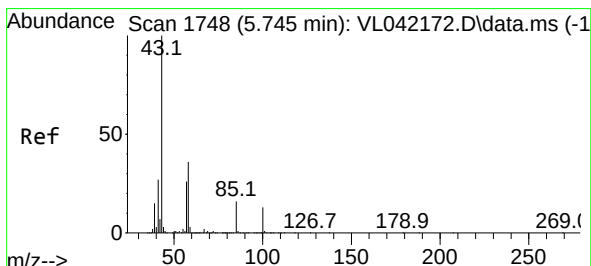
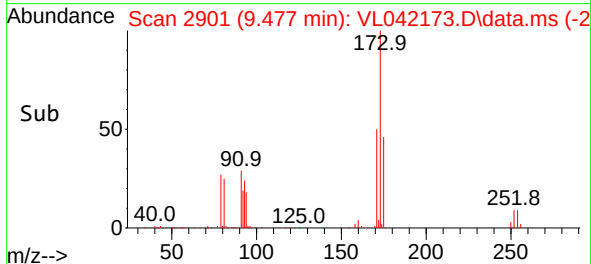
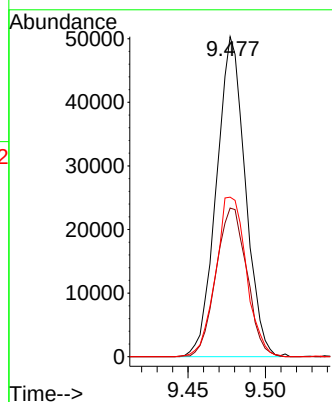
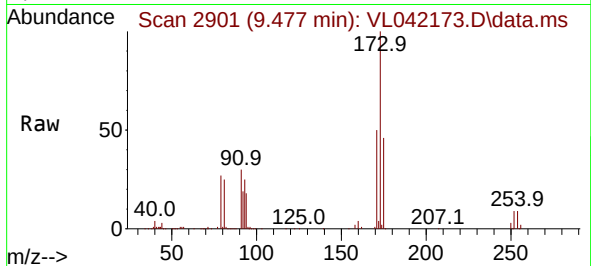




#49
Bromoform
Concen: 2.056 ppbv
RT: 9.477 min Scan# 2901
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

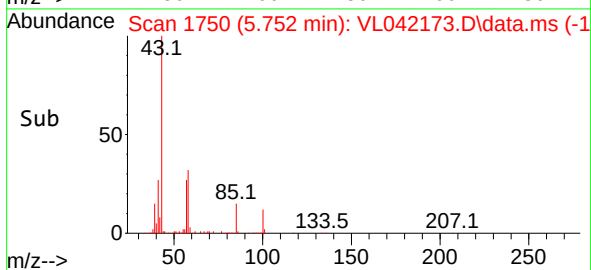
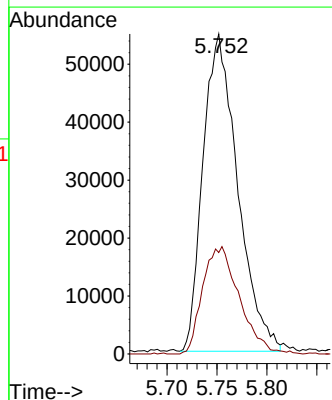
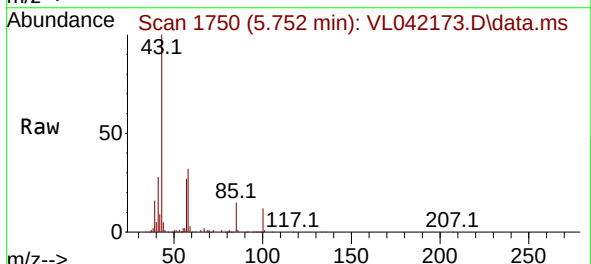
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

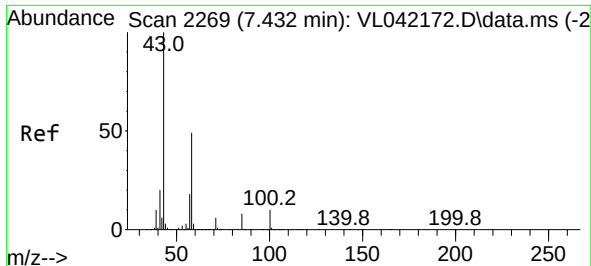
Tgt Ion:173 Resp: 65221
Ion Ratio Lower Upper
173 100
175 49.7 38.6 57.8
171 53.0 41.8 62.6



#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

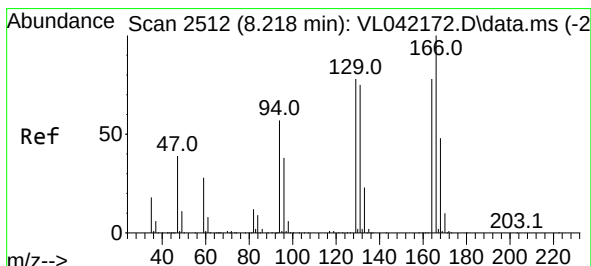
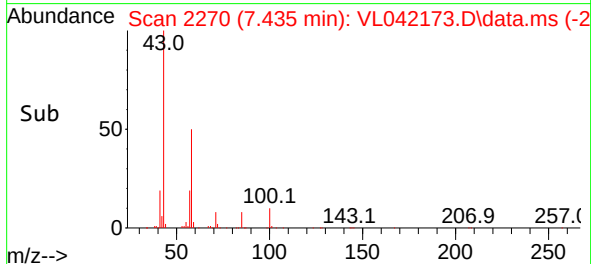
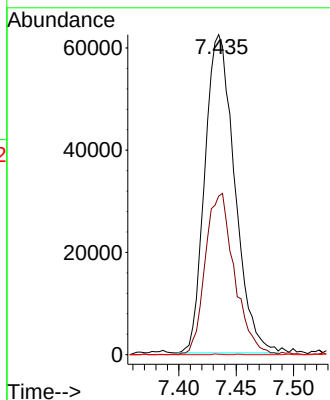
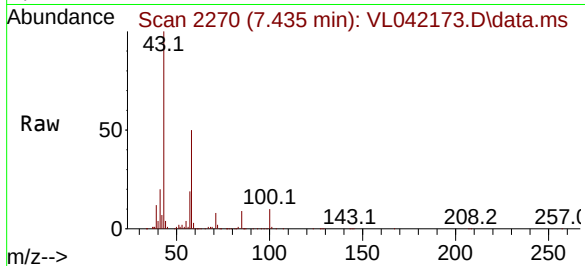




#51
2-Hexanone
Concen: 2.162 ppbv
RT: 7.435 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

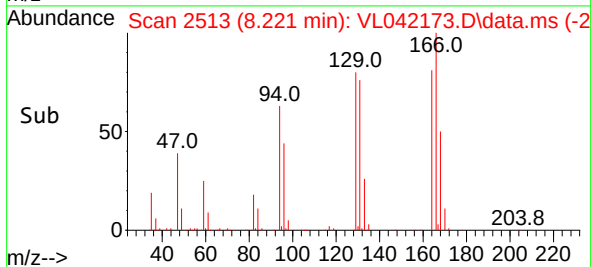
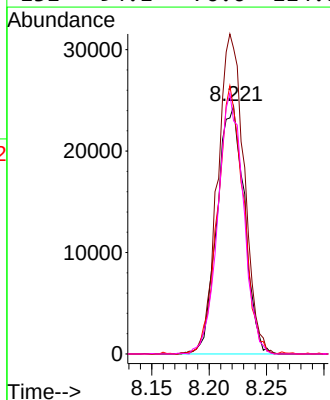
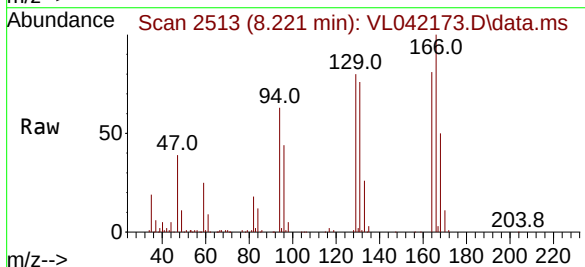
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

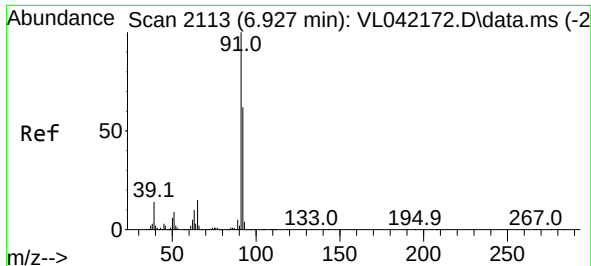
Tgt Ion: 43 Resp: 112681
Ion Ratio Lower Upper
43 100
58 50.0 39.7 59.5
98 0.0 0.1 0.1#



#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

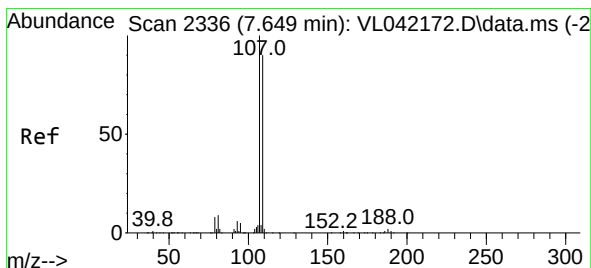
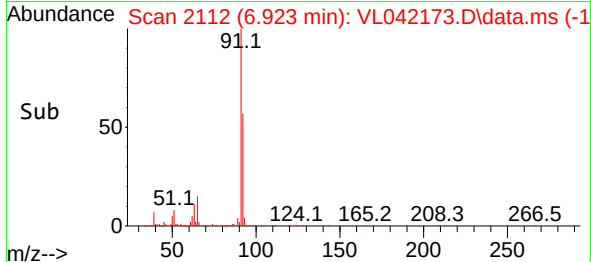
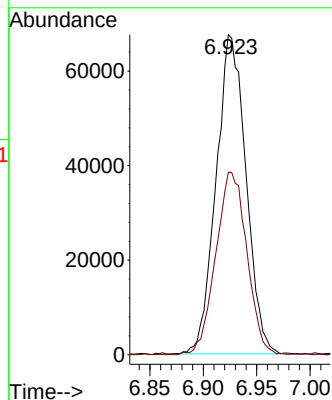
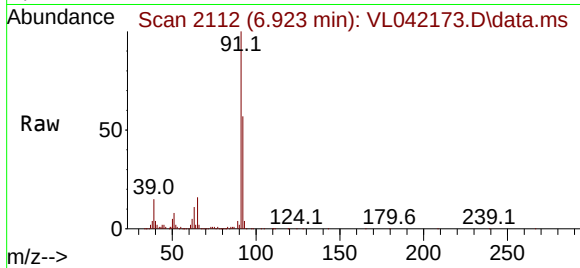




#53
Toluene
Concen: 2.045 ppbv
RT: 6.923 min Scan# 2113
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

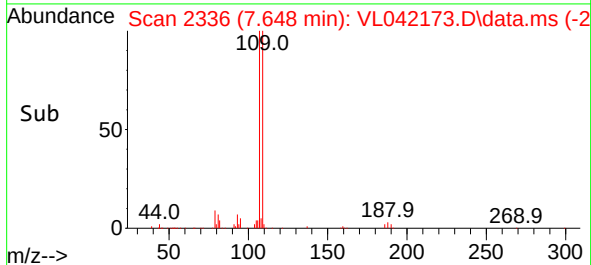
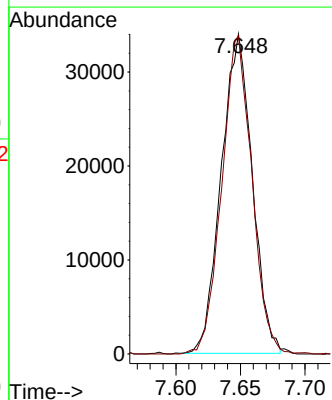
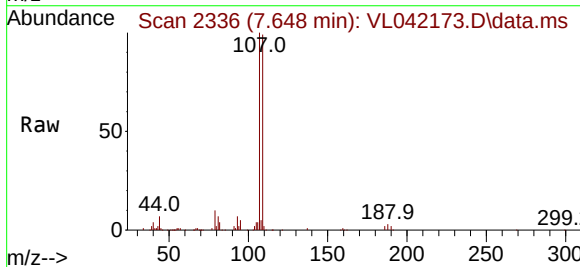
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

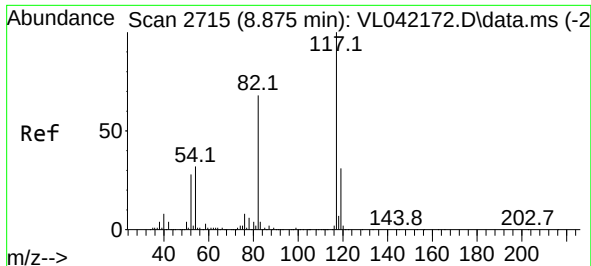
Tgt Ion: 91 Resp: 131314
Ion Ratio Lower Upper
91 100
92 59.6 48.4 72.6



#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

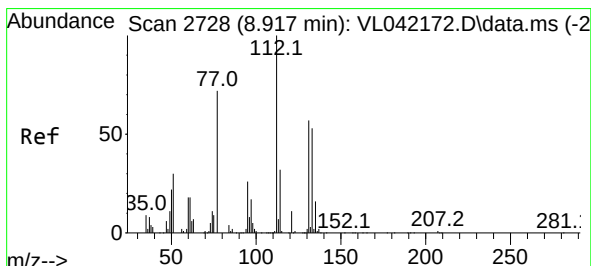
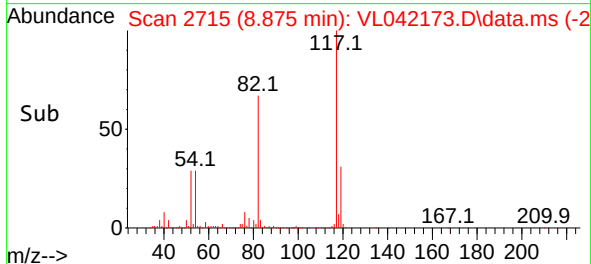
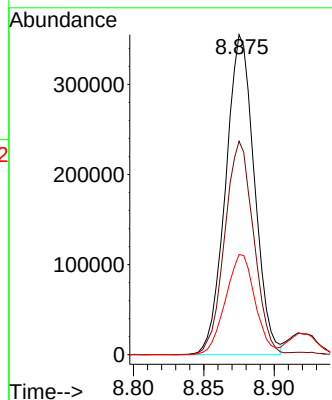
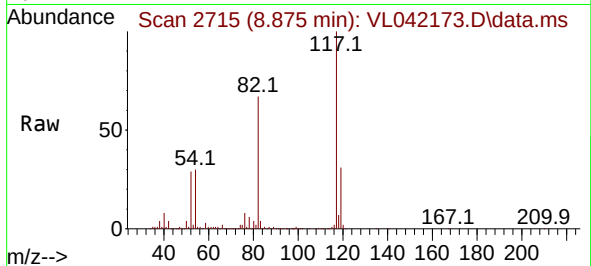




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

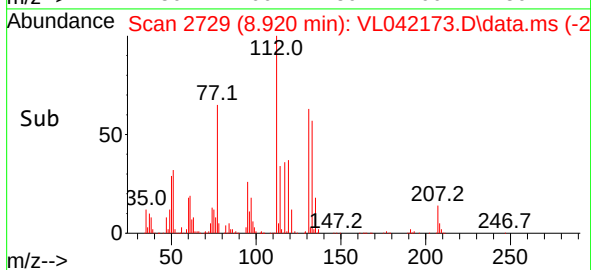
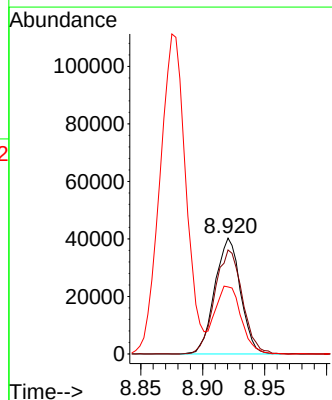
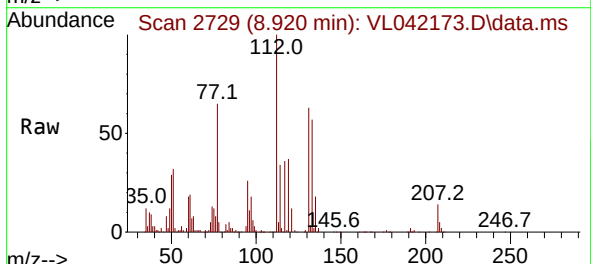
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

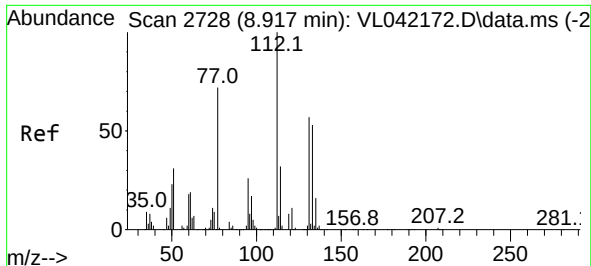
Tgt Ion:117 Resp: 504538
Ion Ratio Lower Upper
117 100
82 68.2 55.8 83.6
119 33.0 25.5 38.3



#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 :

VSTDICC002

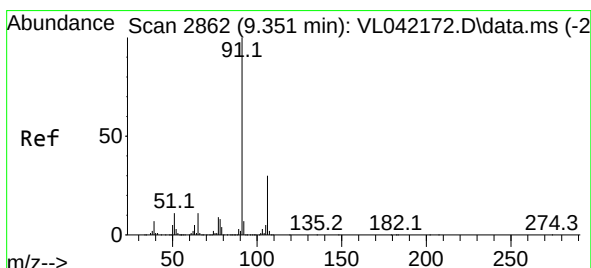
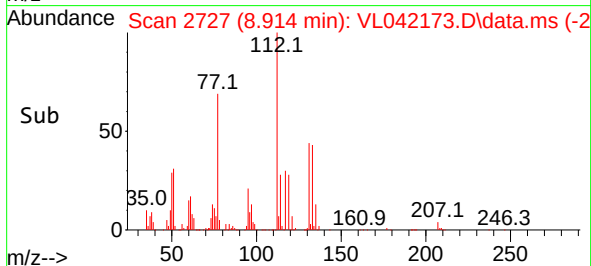
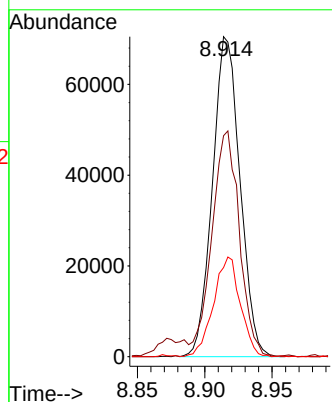
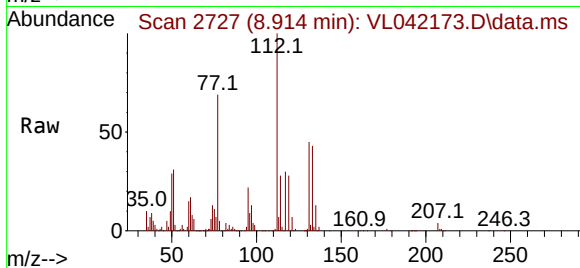
Tgt Ion:112 Resp: 100308

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

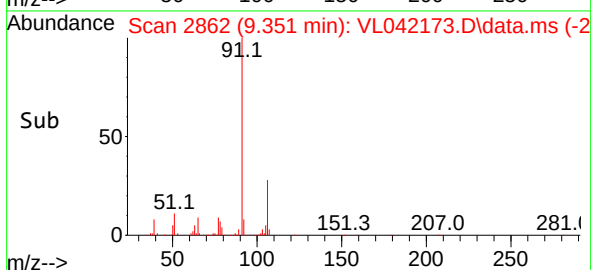
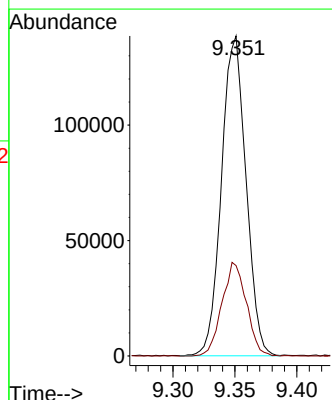
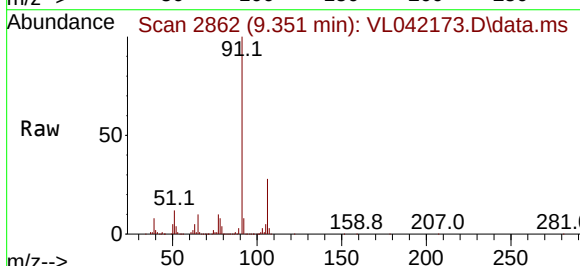
Acq: 27 Mar 2025 08:59

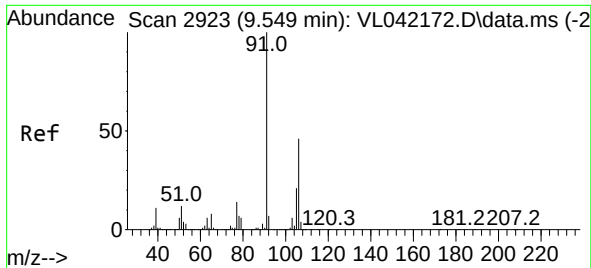
Tgt Ion: 91 Resp: 191114

Ion Ratio Lower Upper

91 100

106 28.3 24.2 36.2

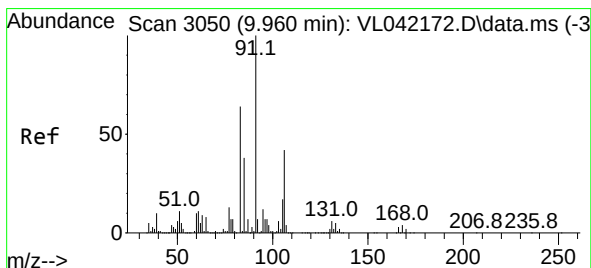
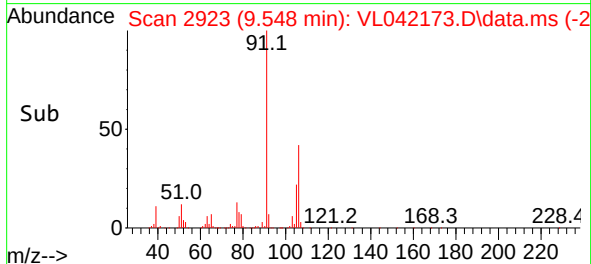
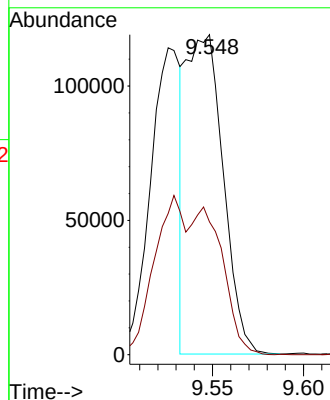
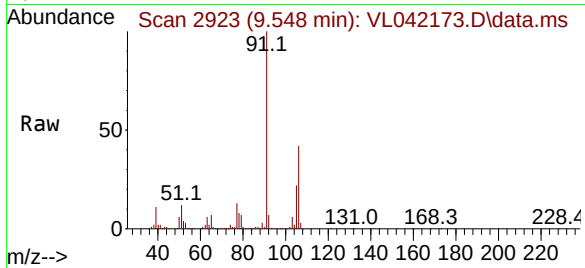




#59
m/p-Xylene
Concen: 2.333 ppbv
RT: 9.548 min Scan# 2923
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

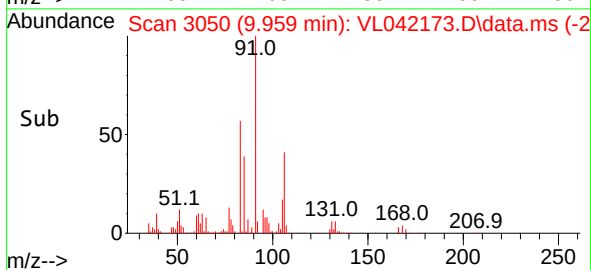
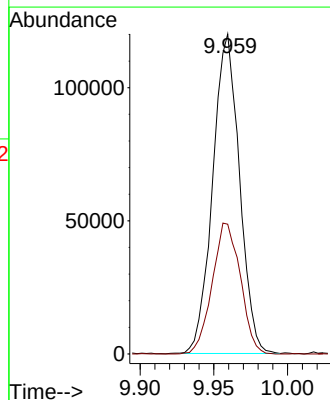
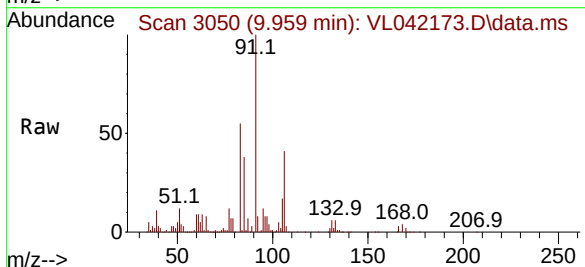
Instrument : MSVOA_1
ClientSampleId : VSTDIC002

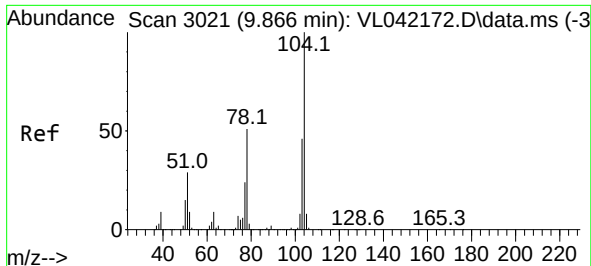
Tgt Ion: 91 Resp: 167182
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6#



#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 :

VSTDIC002

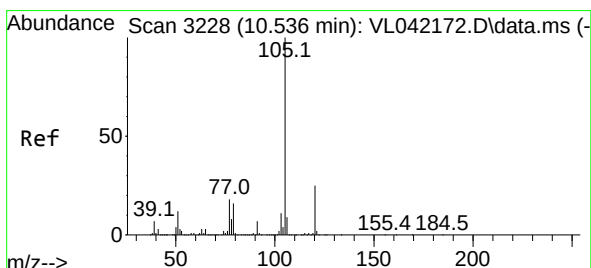
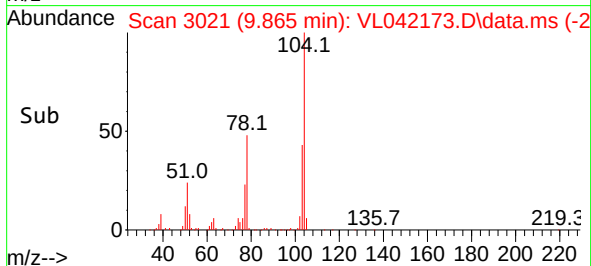
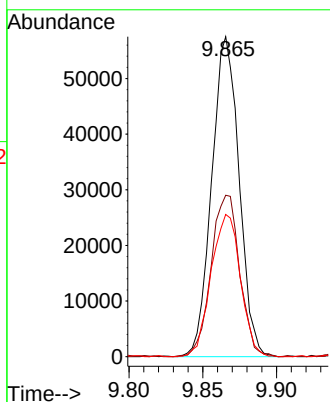
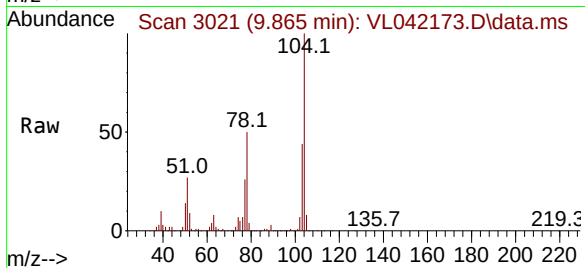
Tgt Ion:104 Resp: 74134

Ion Ratio Lower Upper

104 100

78 52.8 41.8 62.6

103 47.8 37.0 55.4



#62

Isopropylbenzene

Concen: 2.127 ppbv

RT: 10.535 min Scan# 3228

Delta R.T. -0.000 min

Lab File: VL042173.D

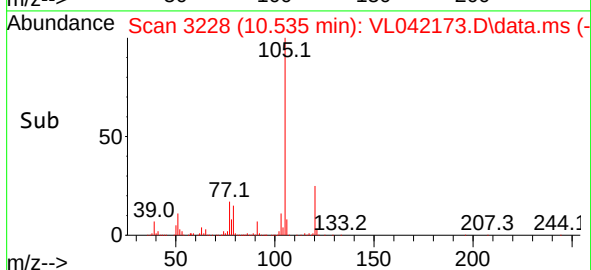
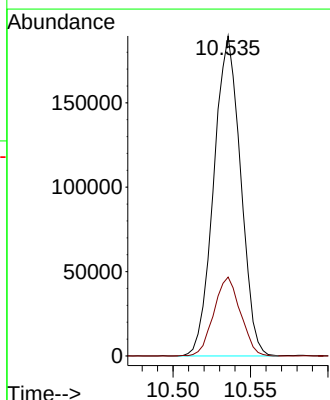
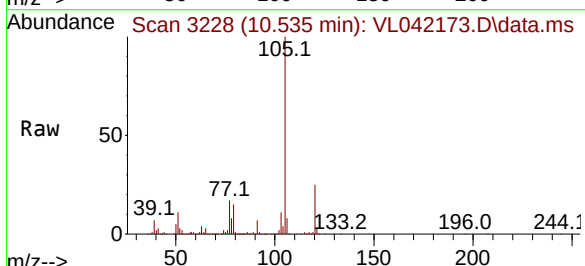
Acq: 27 Mar 2025 08:59

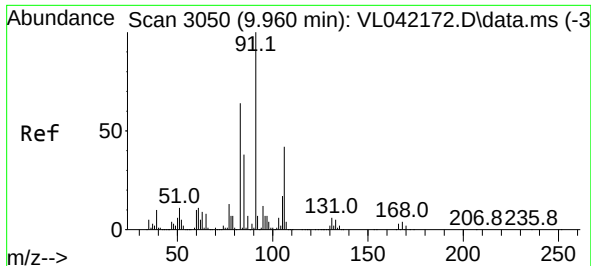
Tgt Ion:105 Resp: 228191

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

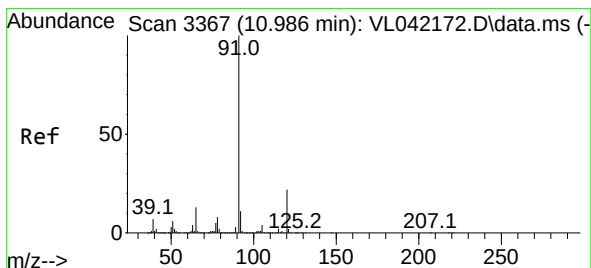
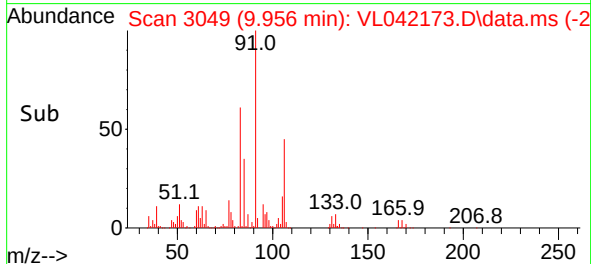
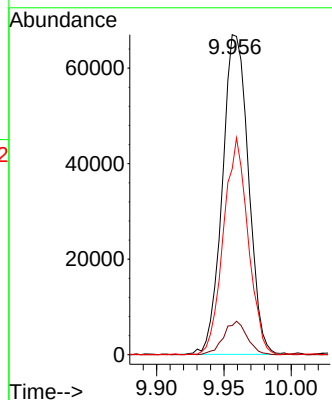
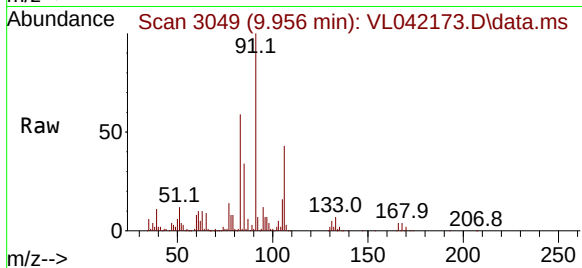
Tgt Ion: 83 Resp: 90114

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

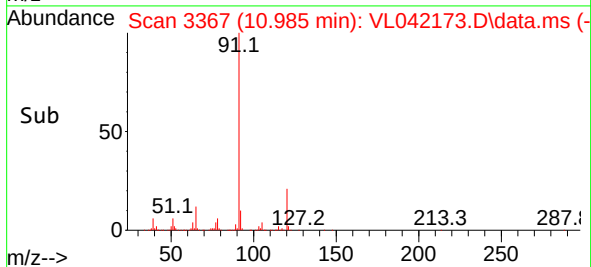
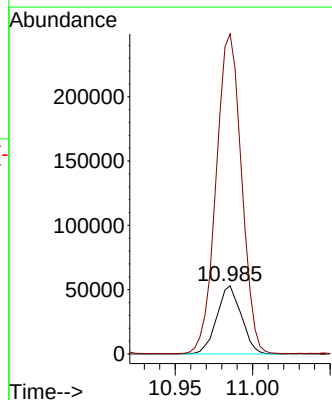
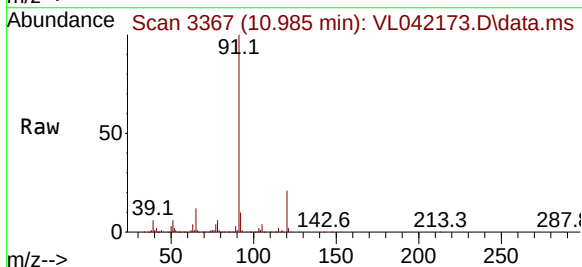
Acq: 27 Mar 2025 08:59

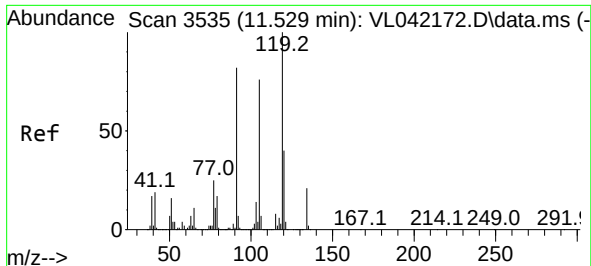
Tgt Ion:120 Resp: 58105

Ion Ratio Lower Upper

120 100

91 491.1 376.9 565.3

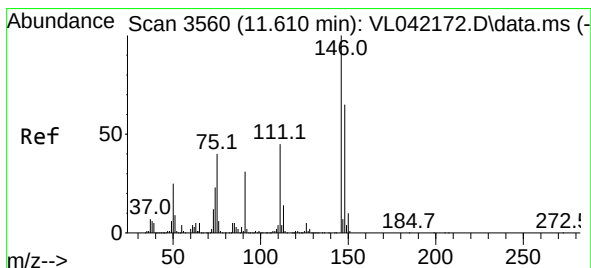
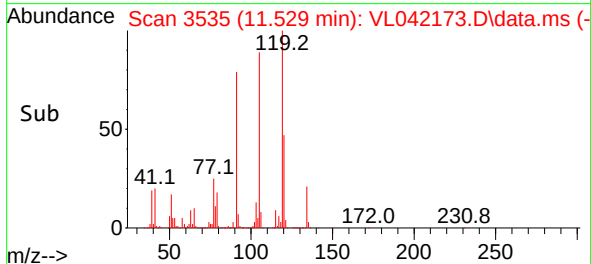
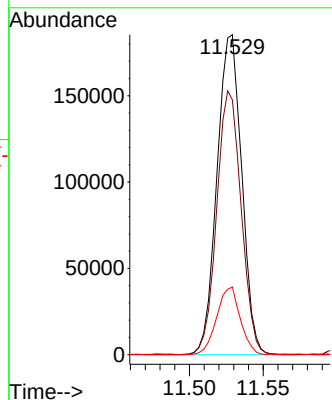
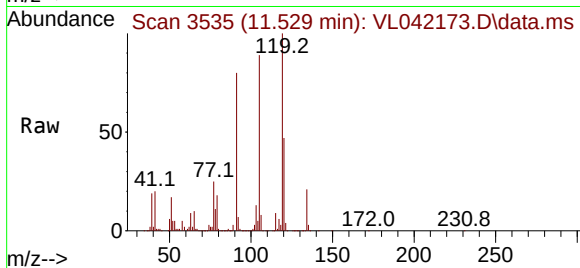




#65
 tert-Butylbenzene
 Concen: 2.180 ppbv
 RT: 11.529 min Scan# 3535
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

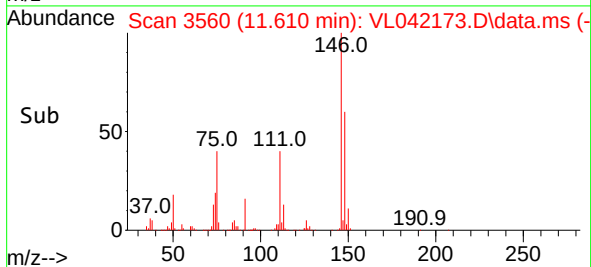
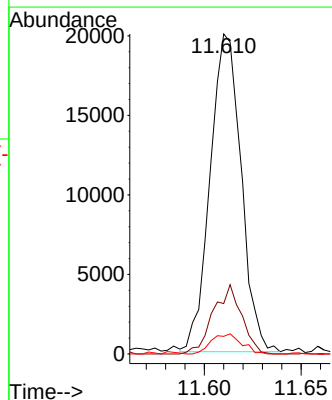
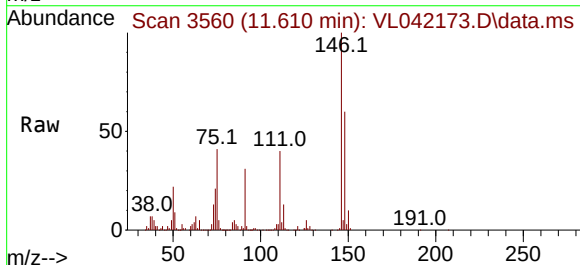
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

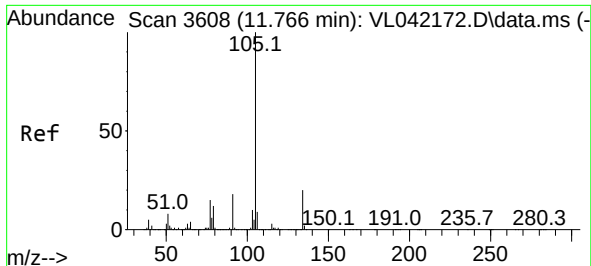
Tgt Ion:119 Resp: 216336
 Ion Ratio Lower Upper
 119 100
 91 81.5 66.0 99.0
 134 20.2 16.7 25.1



#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

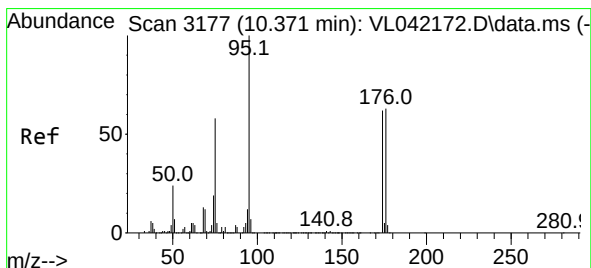
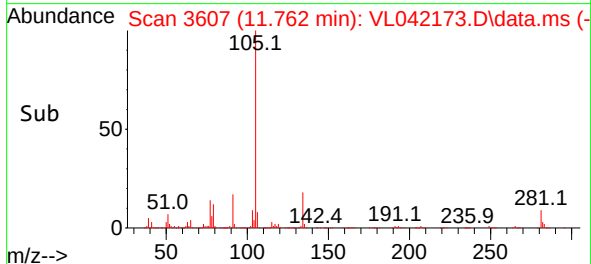
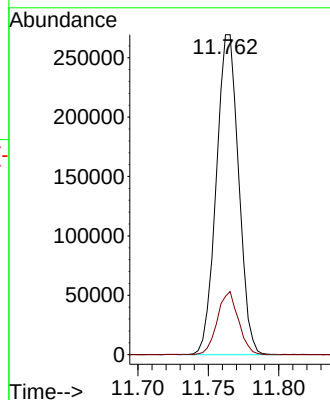
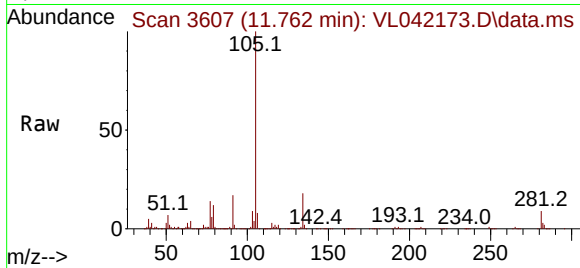




#67
 sec-Butylbenzene
 Concen: 2.156 ppbv
 RT: 11.762 min Scan# 3607
 Delta R.T. -0.003 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

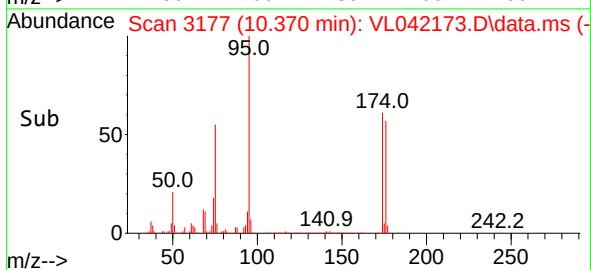
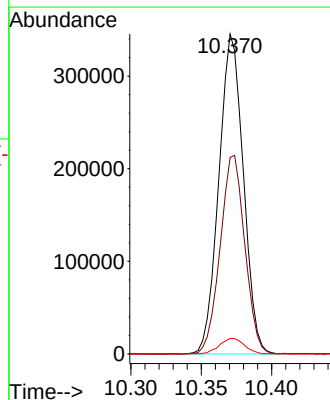
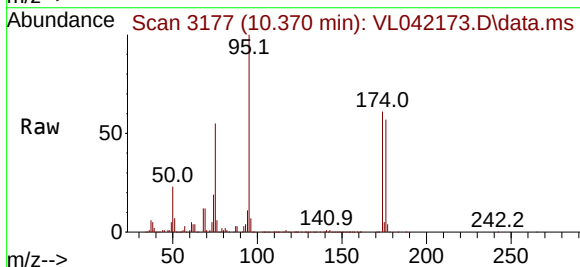
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

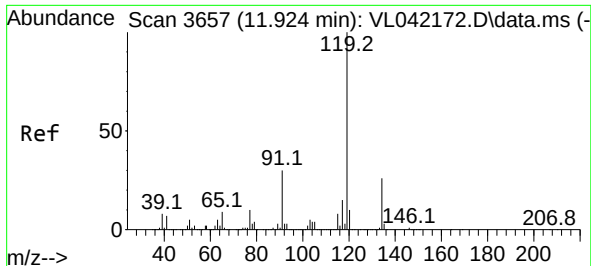
Tgt Ion:105 Resp: 297381
 Ion Ratio Lower Upper
 105 100
 134 18.8 15.5 23.3



#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

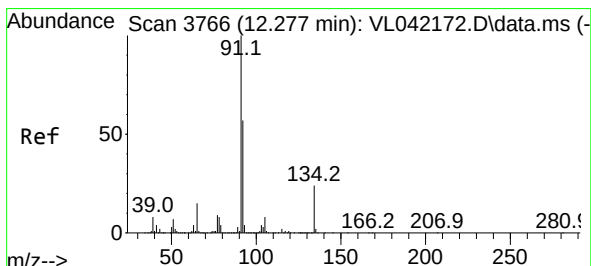
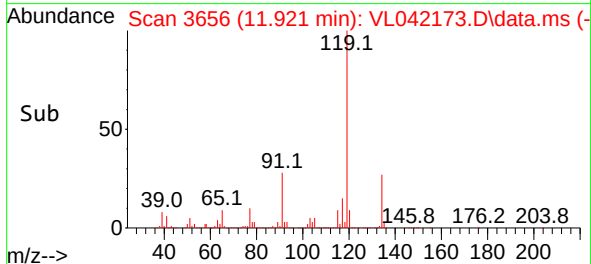
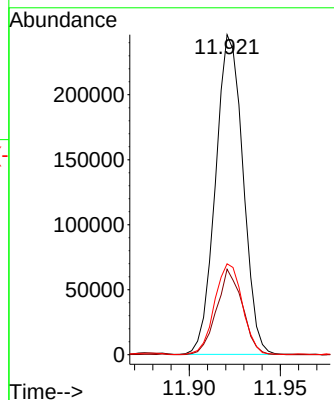
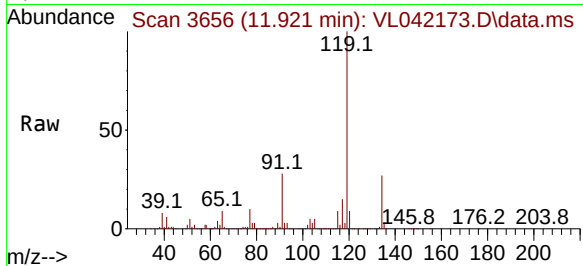




#69
 p-Isopropyltoluene
 Concen: 2.176 ppbv
 RT: 11.921 min Scan# 3656
 Delta R.T. -0.003 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

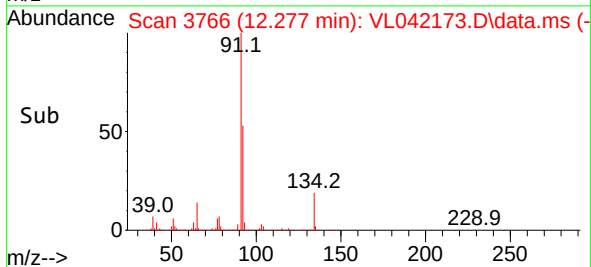
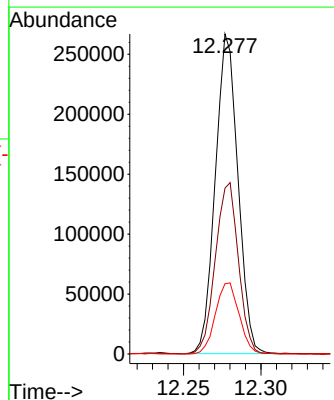
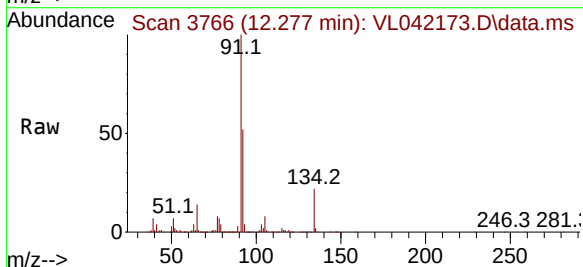
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

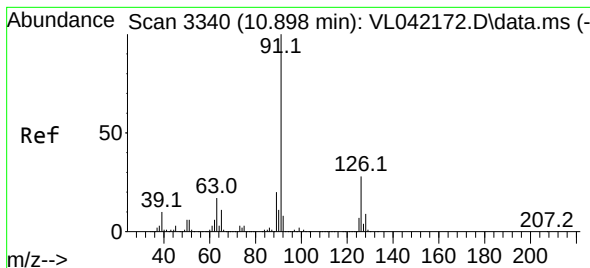
Tgt Ion:119 Resp: 258357
 Ion Ratio Lower Upper
 119 100
 134 25.2 20.4 30.6
 91 29.5 23.7 35.5



#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

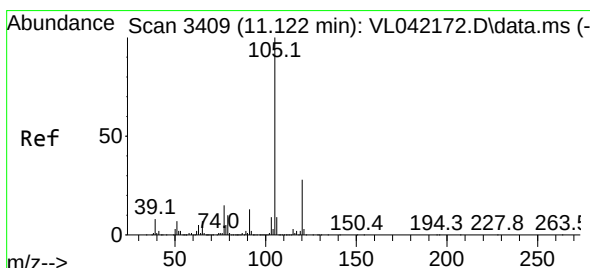
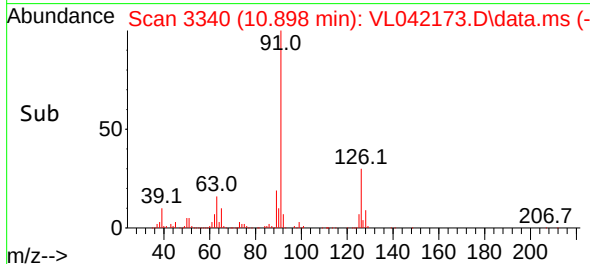
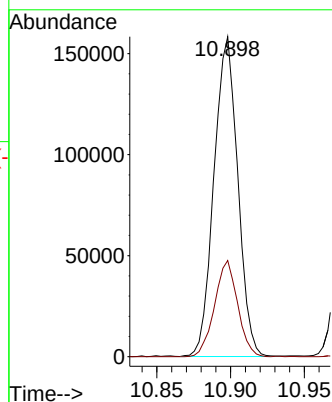
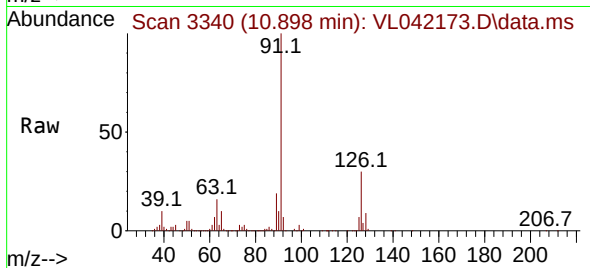




#71
2-Chlorotoluene
Concen: 2.132 ppbv
RT: 10.898 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

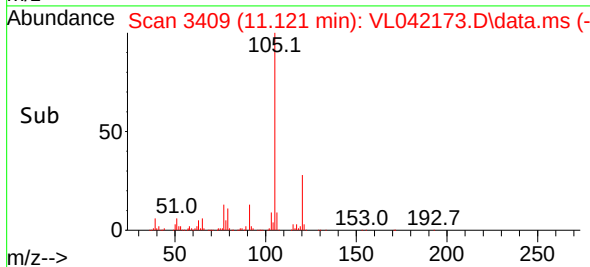
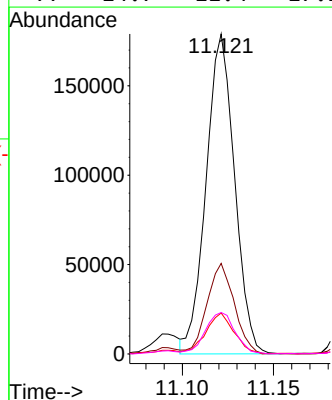
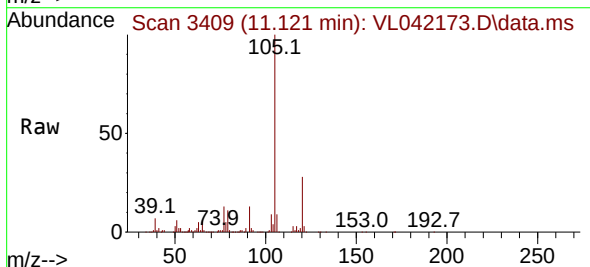
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

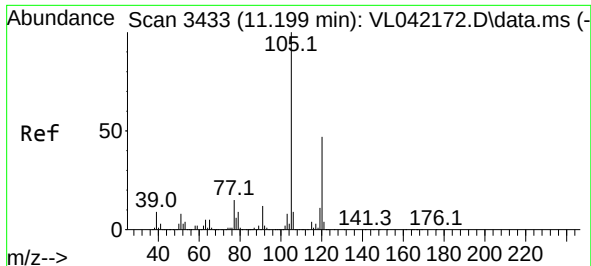
Tgt Ion: 91 Resp: 177487
Ion Ratio Lower Upper
91 100
126 29.2 11.6 46.4



#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

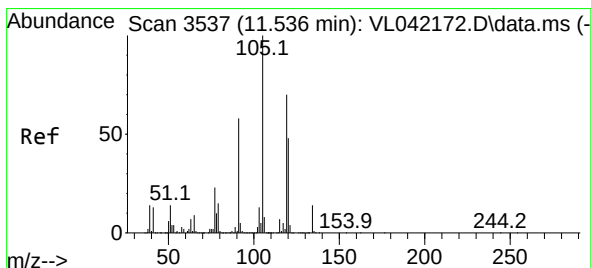
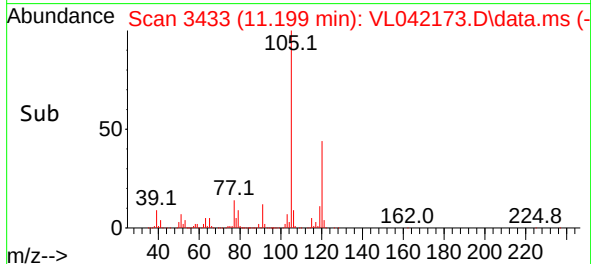
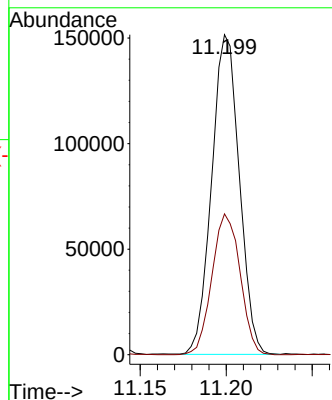
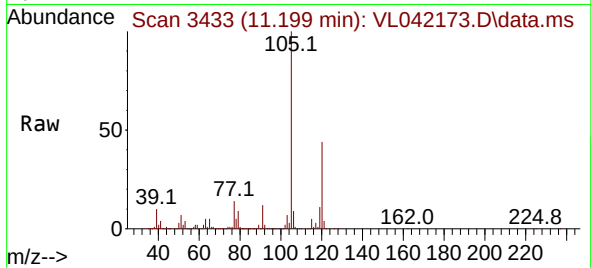




#73
1,3,5-Trimethylbenzene
Concen: 2.169 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

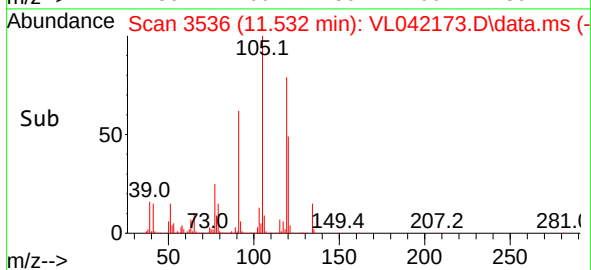
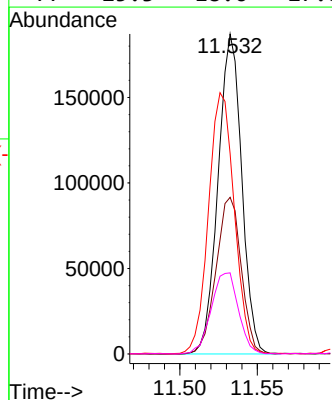
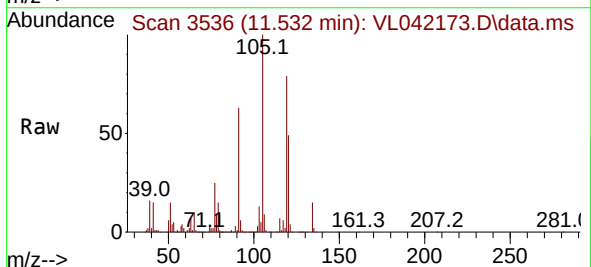
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

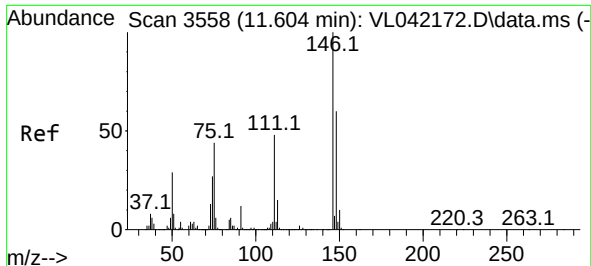
Tgt Ion:105 Resp: 169221
Ion Ratio Lower Upper
105 100
120 44.0 37.4 56.0



#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

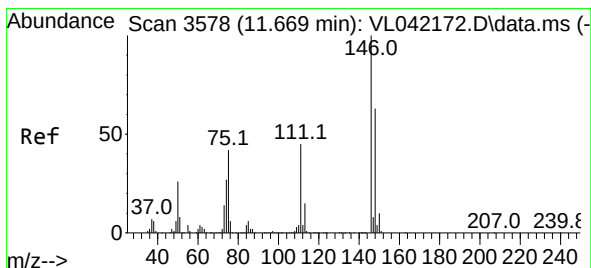
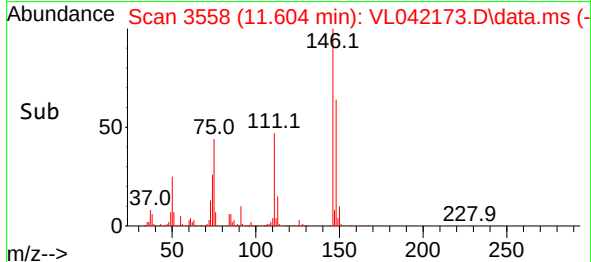
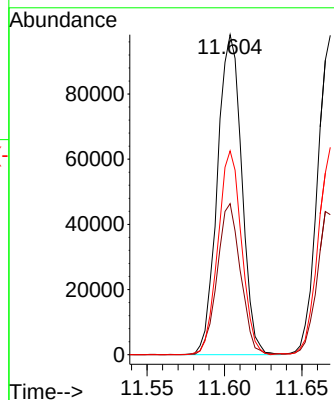
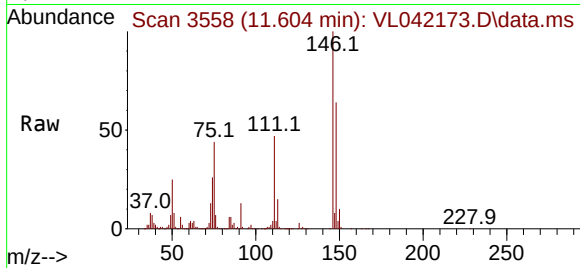




#75
1,3-Dichlorobenzene
Concen: 2.175 ppbv
RT: 11.604 min Scan# 3558
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

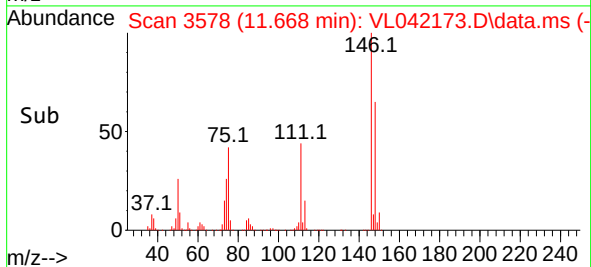
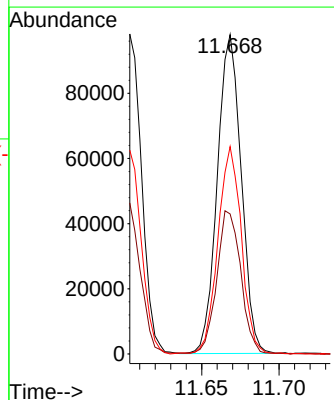
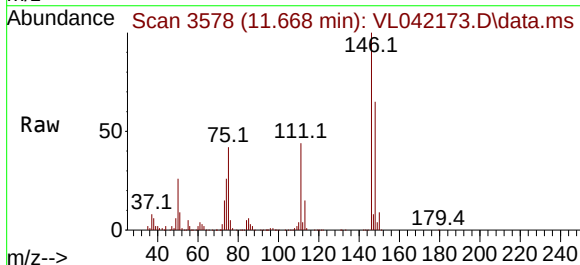
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

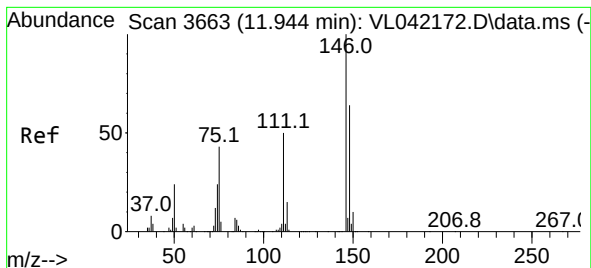
Tgt Ion:146 Resp: 107217
Ion Ratio Lower Upper
146 100
111 45.5 23.8 71.2
148 61.6 31.9 95.9



#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

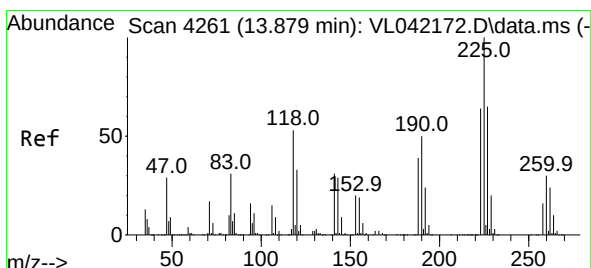
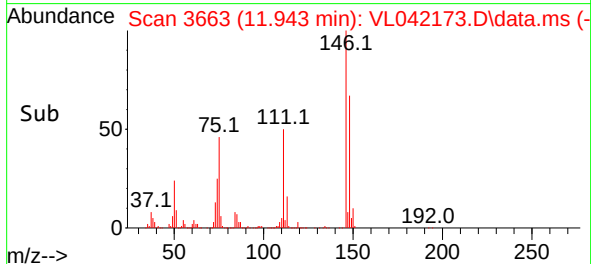
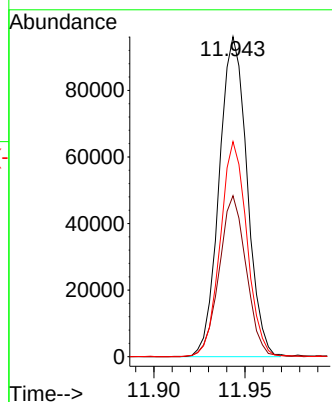
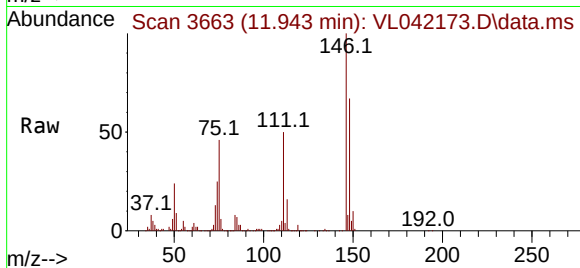
Tgt Ion:146 Resp: 102310

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

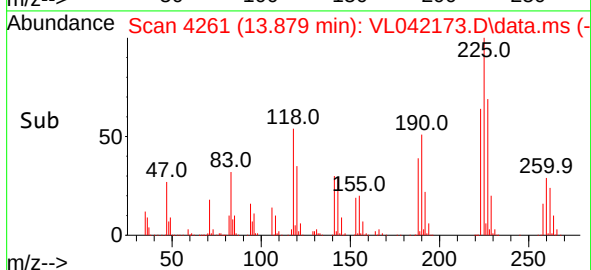
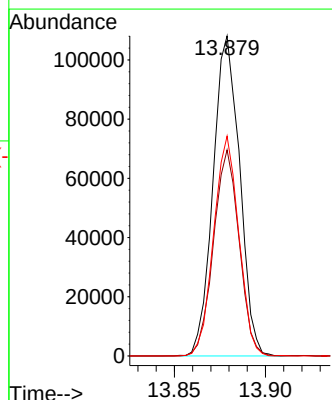
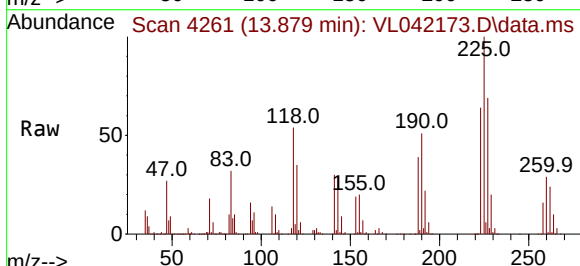
Tgt Ion:225 Resp: 109539

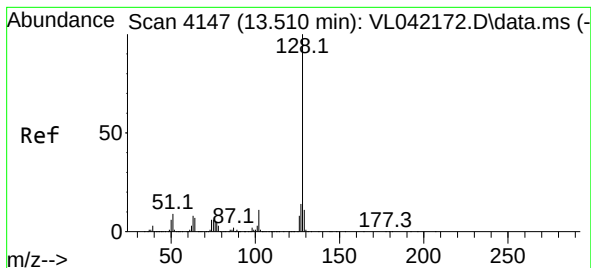
Ion Ratio Lower Upper

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

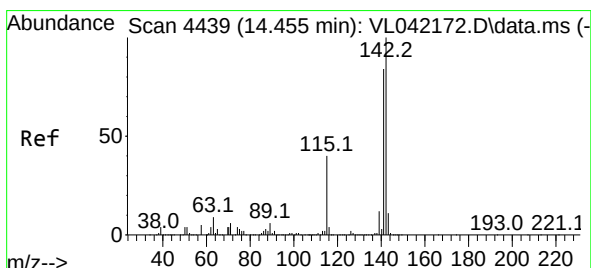
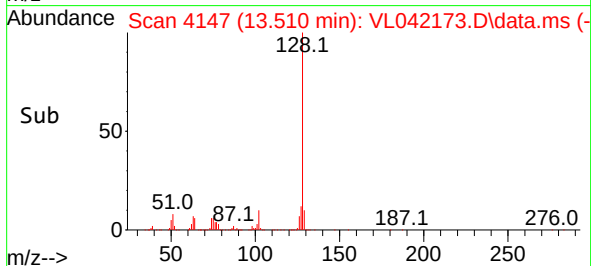
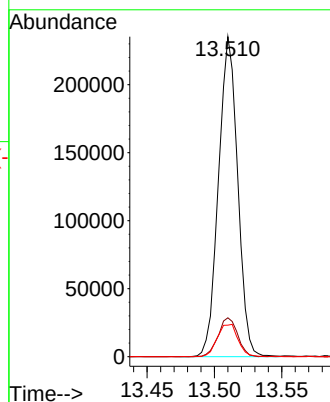
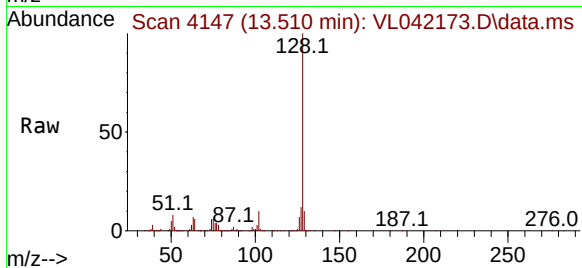
Tgt Ion:128 Resp: 233451

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

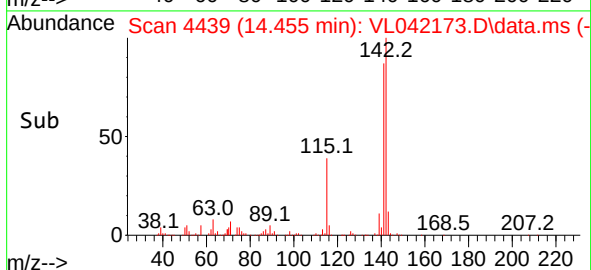
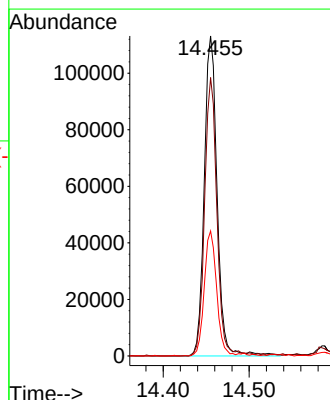
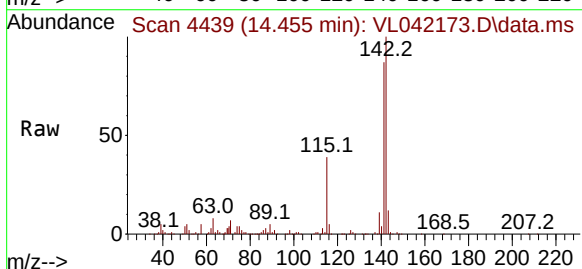
Tgt Ion:142 Resp: 117313

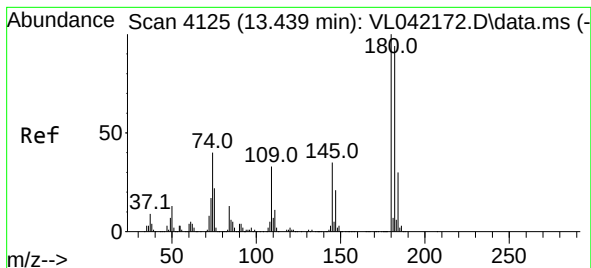
Ion Ratio Lower Upper

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

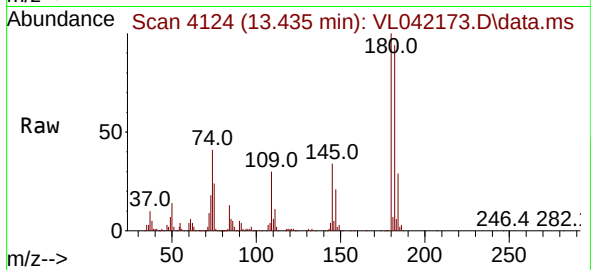
Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002



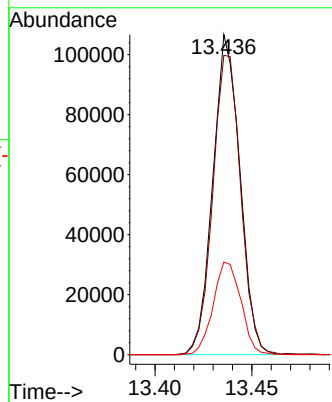
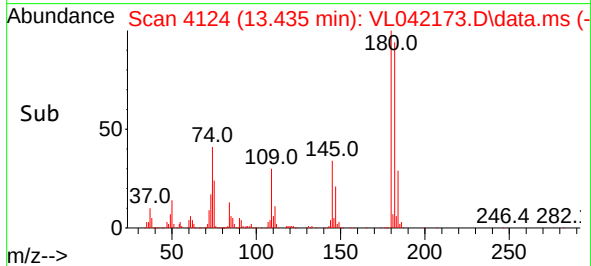
Tgt Ion:180 Resp: 103765

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

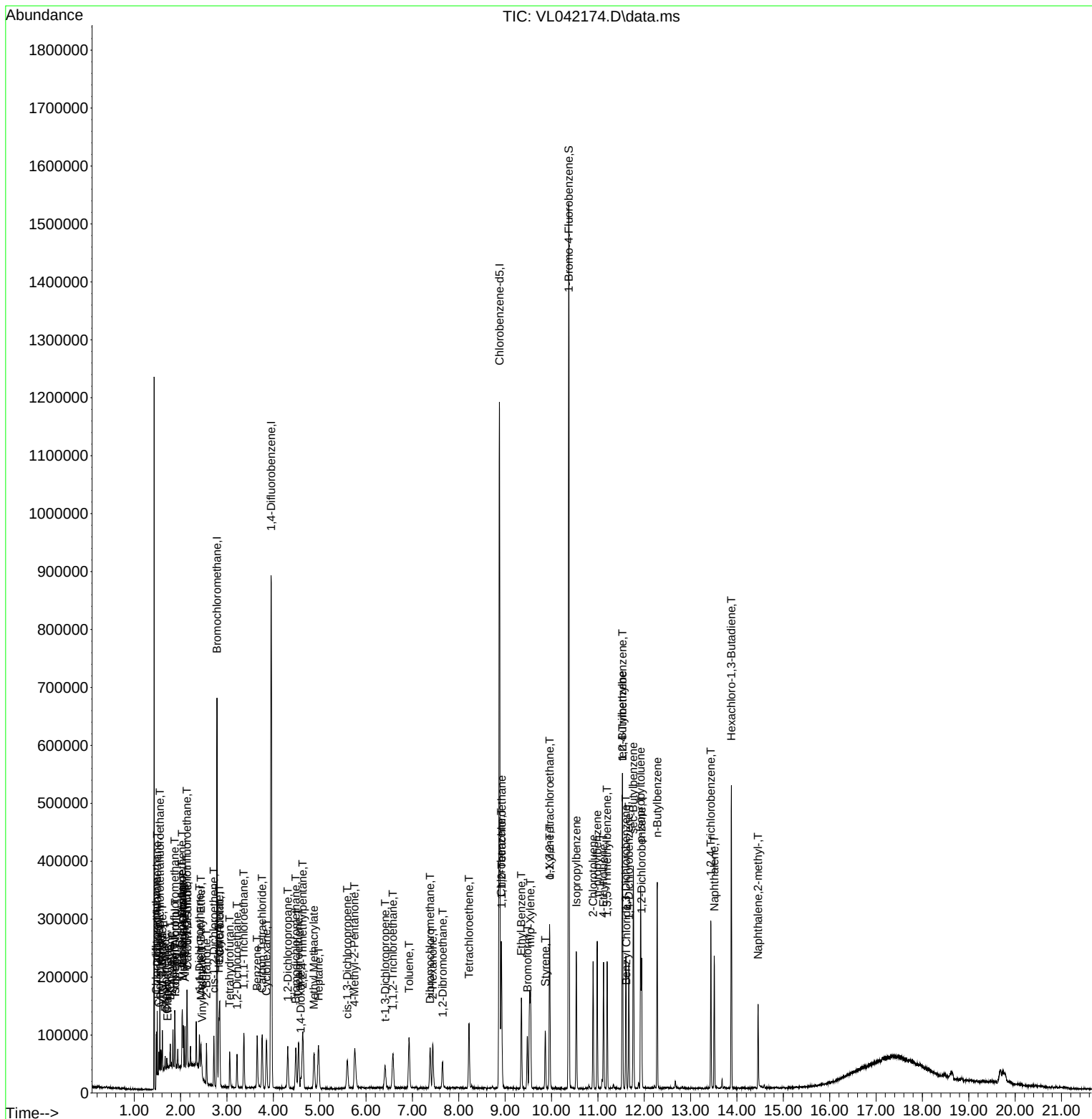
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

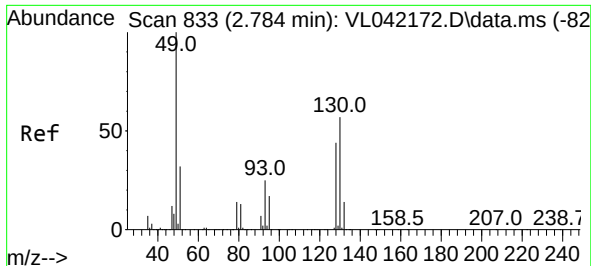
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	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

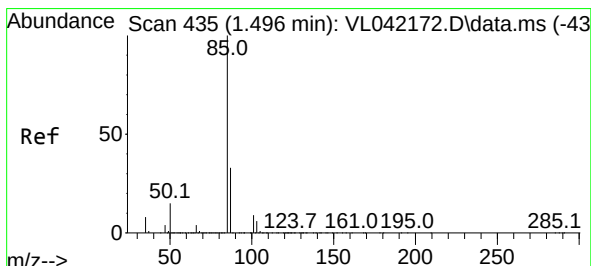
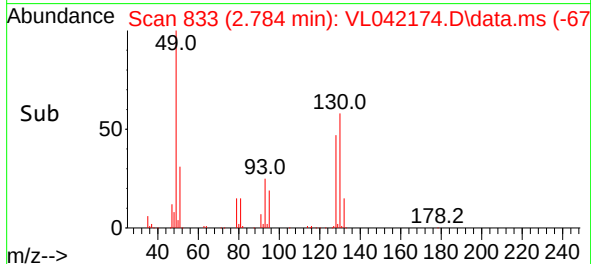
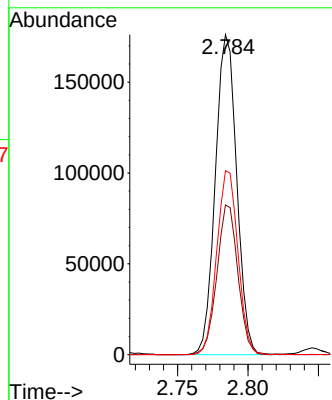
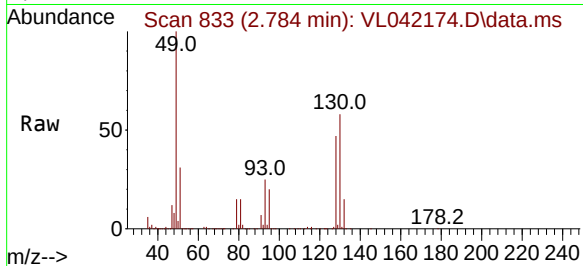




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

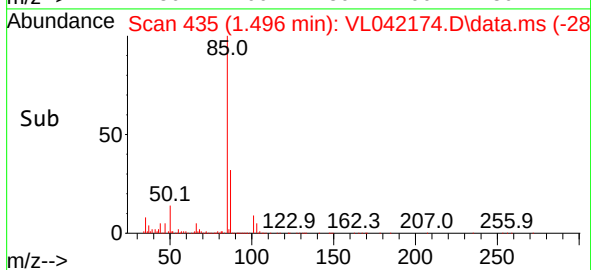
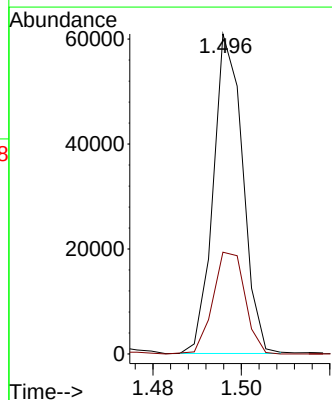
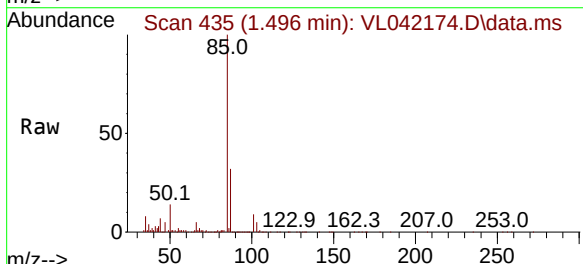
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

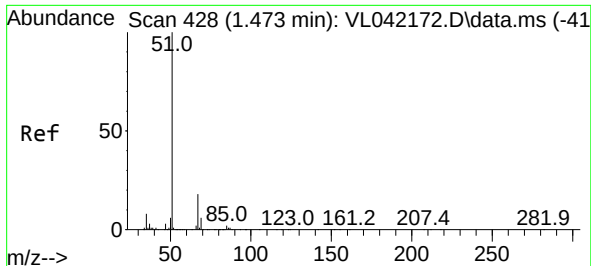
Tgt Ion: 49 Resp: 186244
Ion Ratio Lower Upper
49 100
128 46.2 22.9 68.5
130 57.0 28.8 86.4



#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

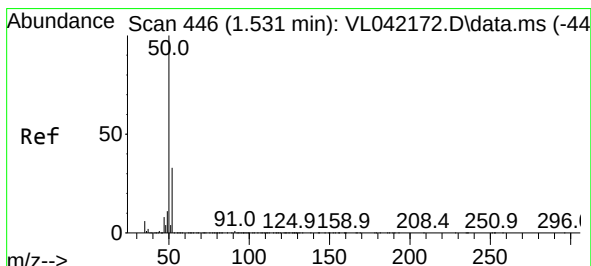
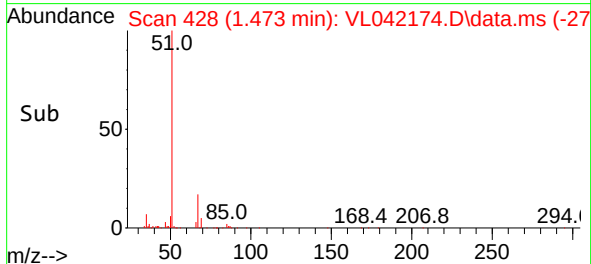
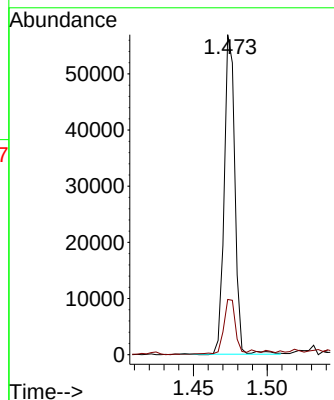
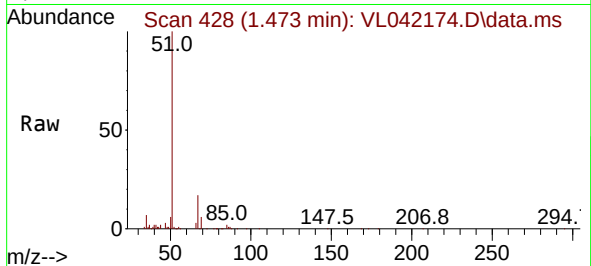




#3
Chlorodifluoromethane
Concen: 1.021 ppbv
RT: 1.473 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

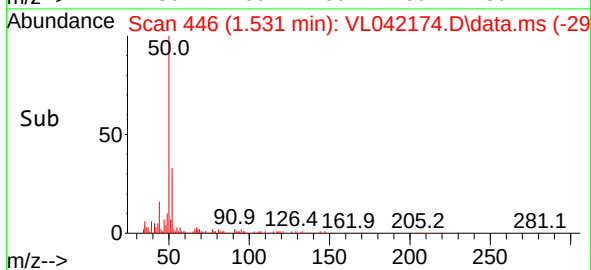
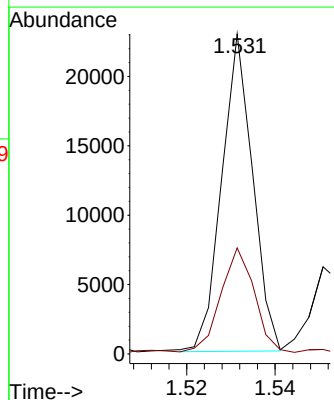
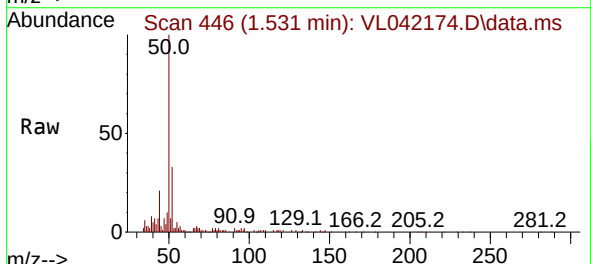
Instrument :
MSVOA_L
ClientSampleId :
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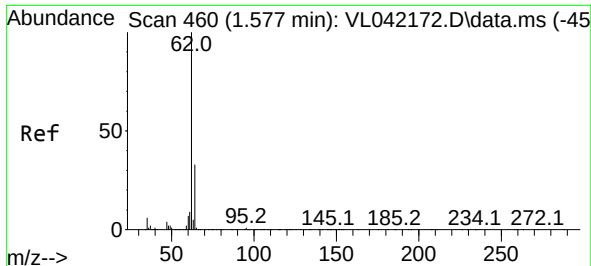
Tgt Ion: 51 Resp: 28693
Ion Ratio Lower Upper
51 100
67 21.5 15.0 22.6



#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

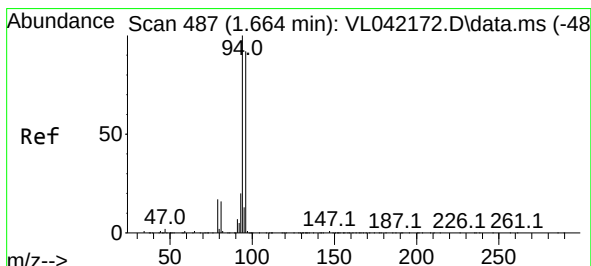
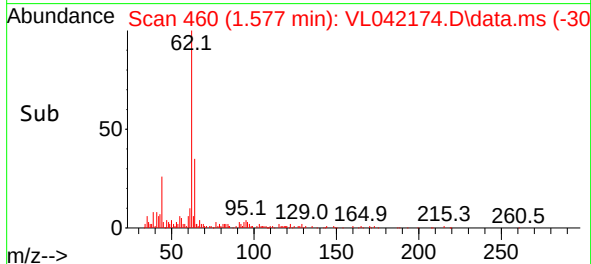
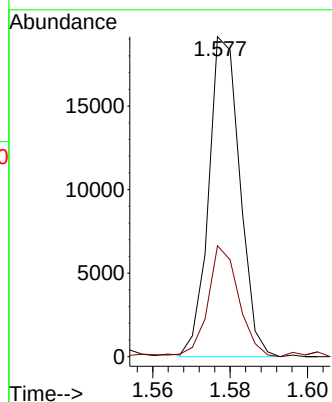
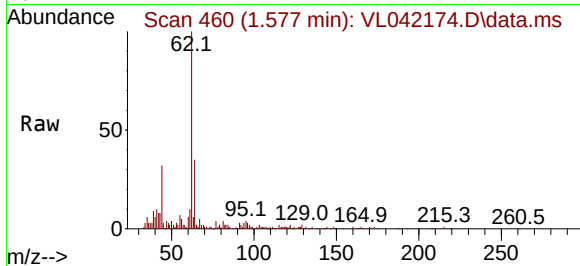




#5
 Vinyl Chloride
 Concen: 0.936 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. 0.000 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

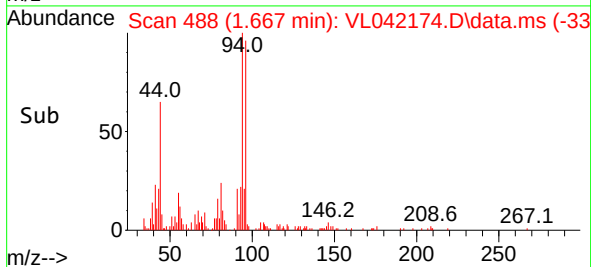
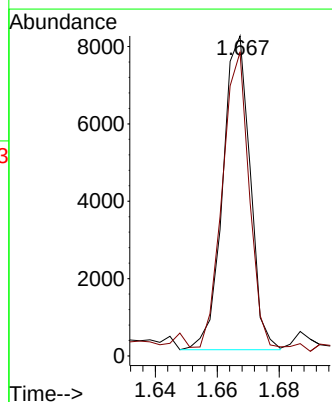
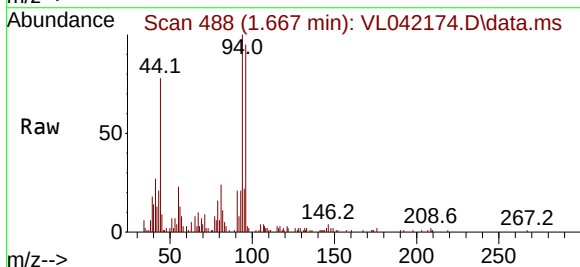
Instrument :
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 ClientSampleId :
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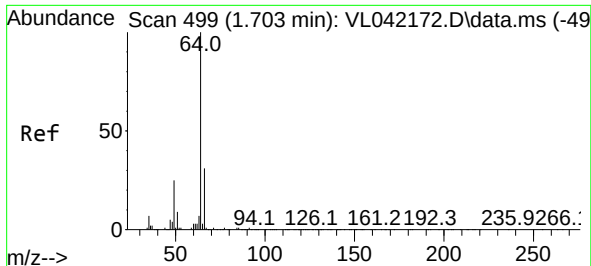
Tgt Ion: 62 Resp: 10723
 Ion Ratio Lower Upper
 62 100
 64 34.6 26.6 40.0



#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

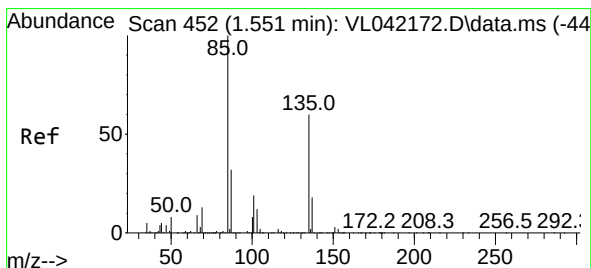
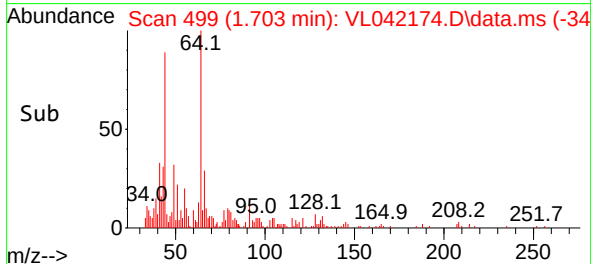
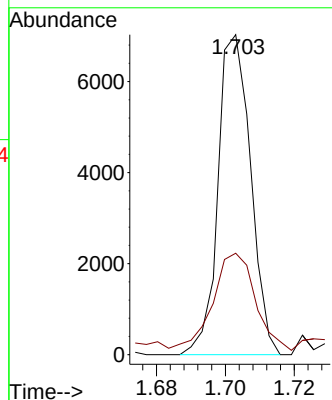
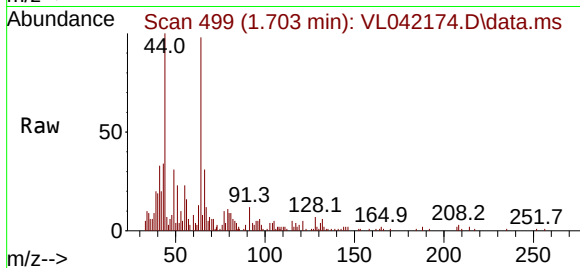




#7
Chloroethane
Concen: 1.025 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

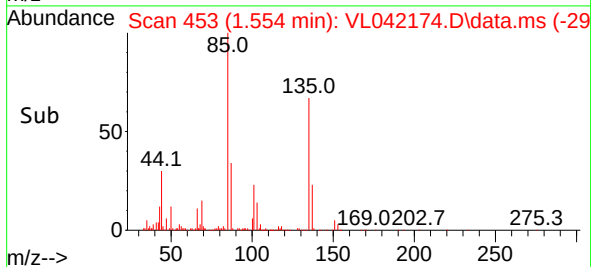
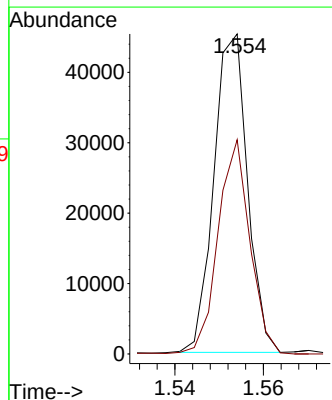
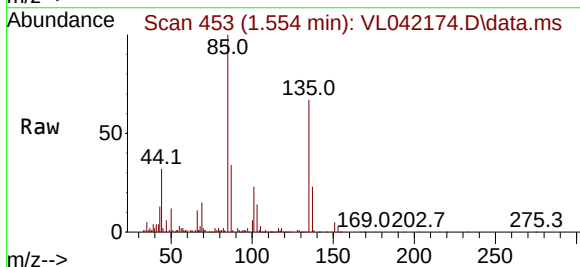
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

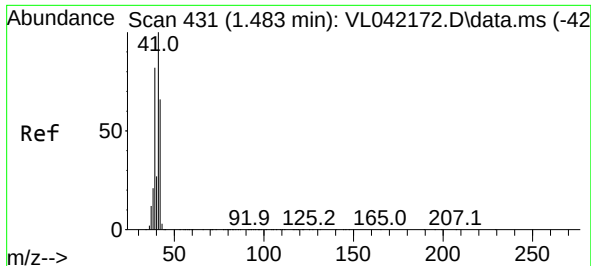
Tgt Ion: 64 Resp: 4622
Ion Ratio Lower Upper
64 100
66 31.7 25.2 37.8



#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# 51

Delta R.T. 0.401 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_1

ClientSampleId :

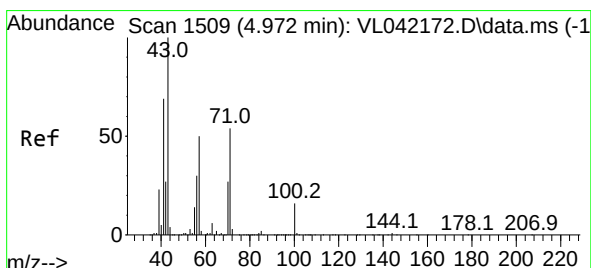
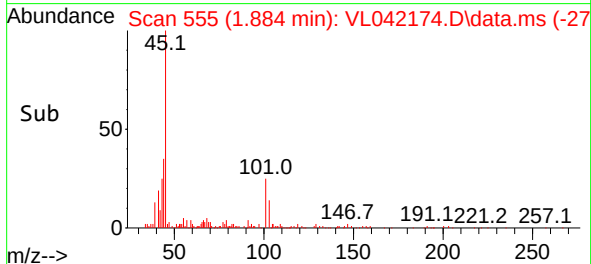
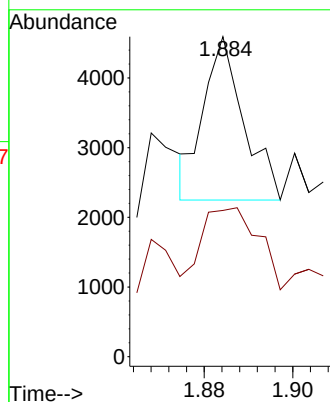
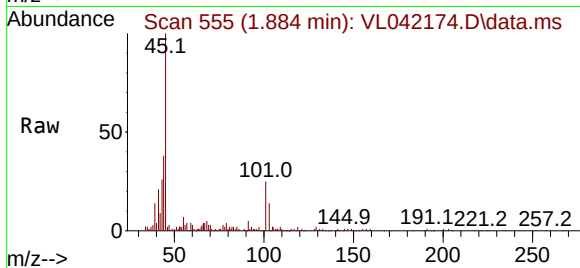
VSTDIC001

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

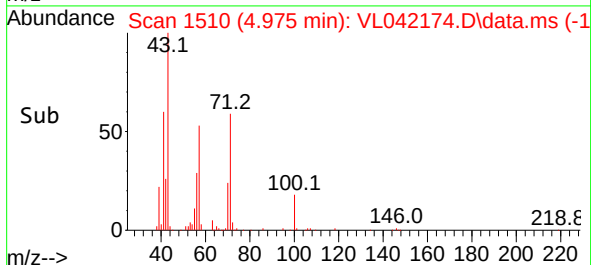
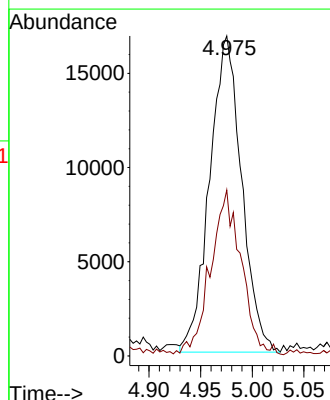
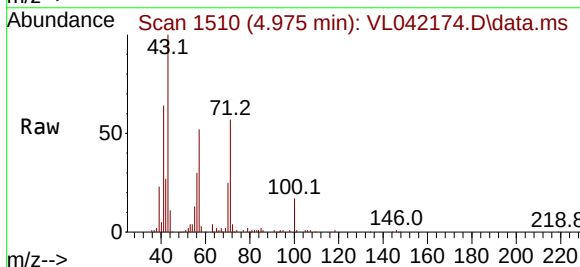
Acq: 27 Mar 2025 09:30

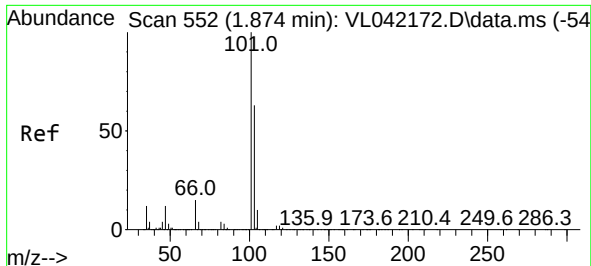
Tgt Ion: 43 Resp: 36132

Ion Ratio Lower Upper

43 100

57 49.6 39.4 59.2

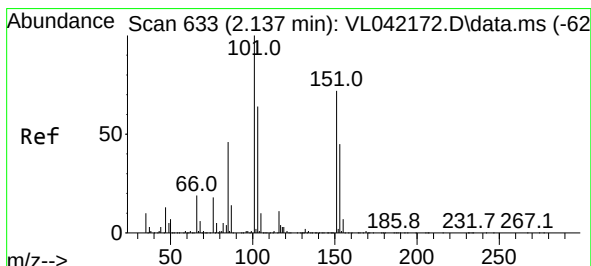
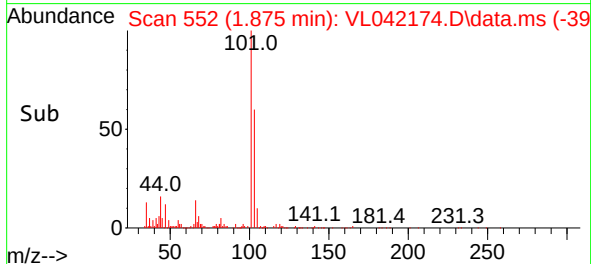
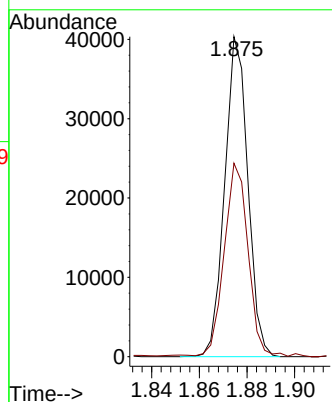
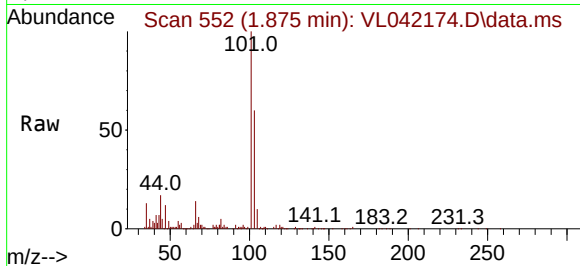




#11
Trichlorofluoromethane
Concen: 1.014 ppbv
RT: 1.875 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

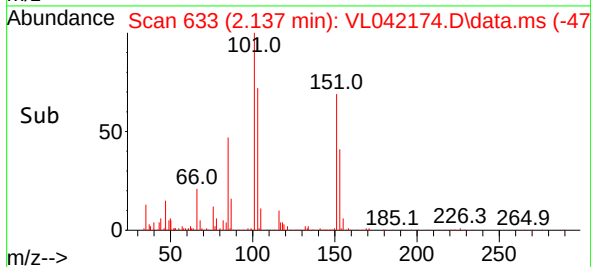
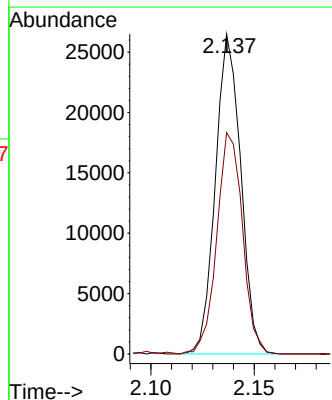
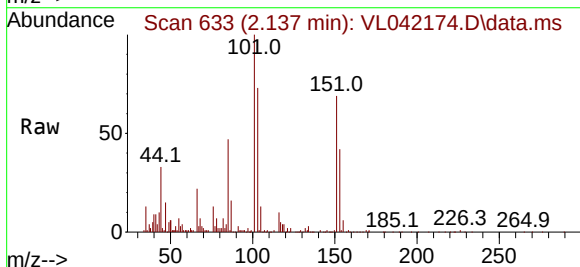
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

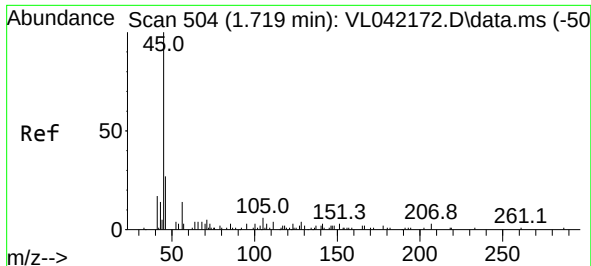
Tgt Ion:101 Resp: 27136
Ion Ratio Lower Upper
101 100
103 59.9 50.2 75.2



#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

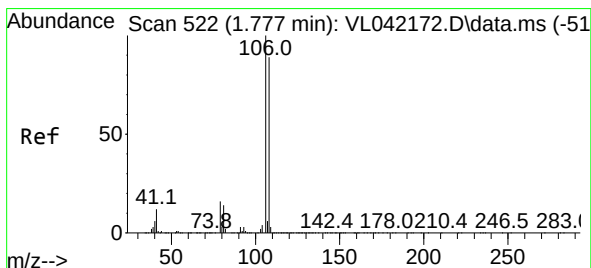
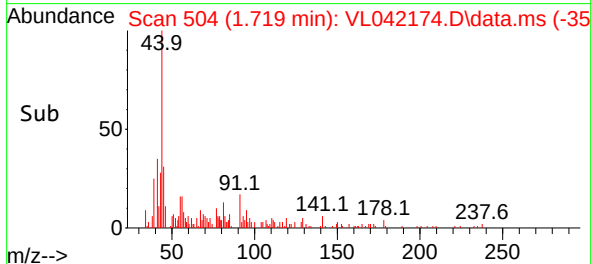
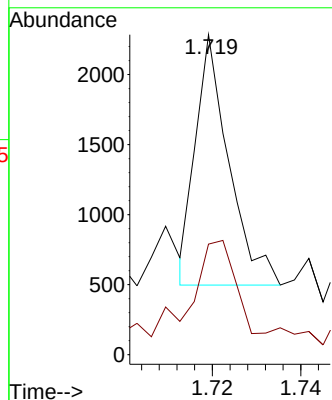
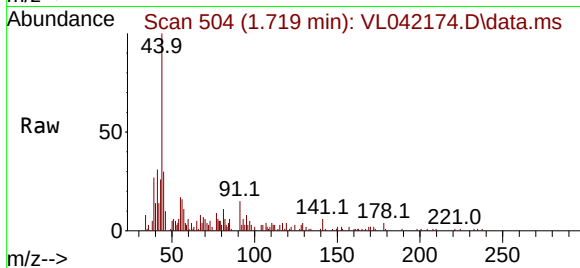




#13
 Ethanol
 Concen: 0.943 ppbv
 RT: 1.719 min Scan# 504
 Delta R.T. 0.000 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

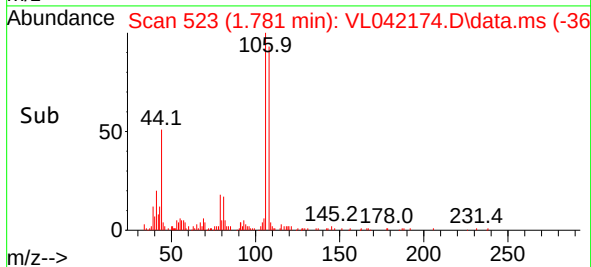
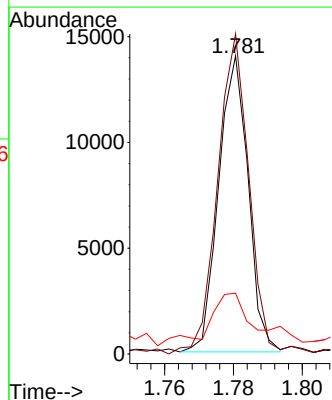
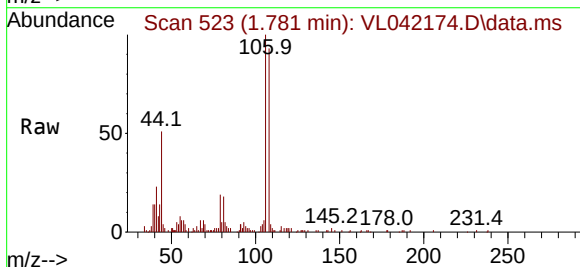
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

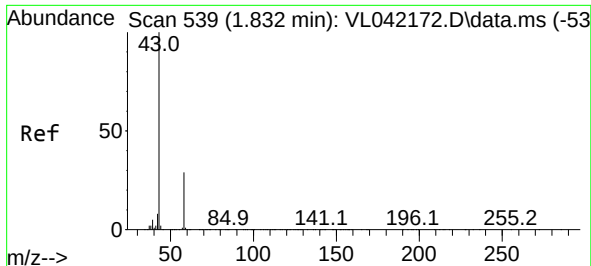
Tgt Ion: 45 Resp: 935
 Ion Ratio Lower Upper
 45 100
 46 126.3 20.2 80.8#



#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#

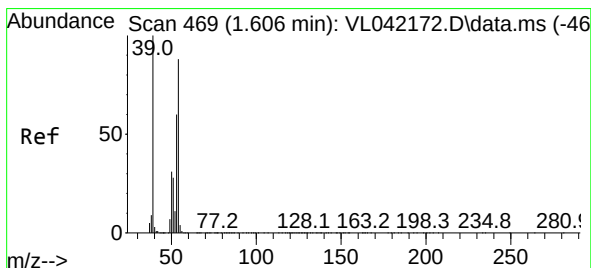
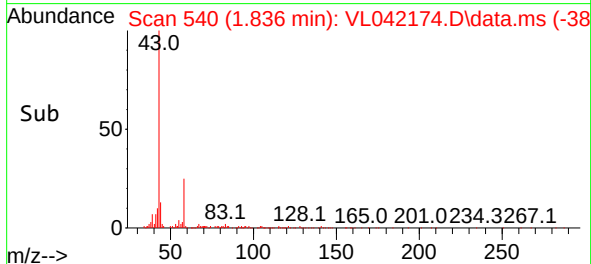
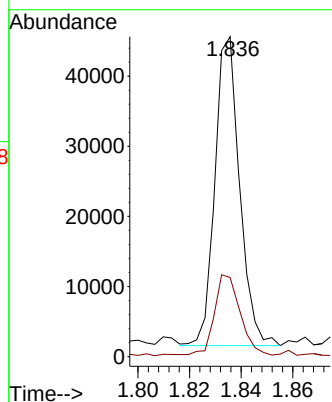
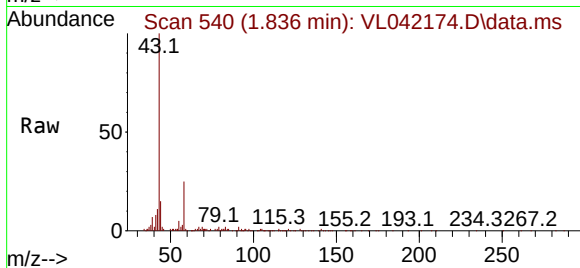




#15
Acetone
Concen: 1.125 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

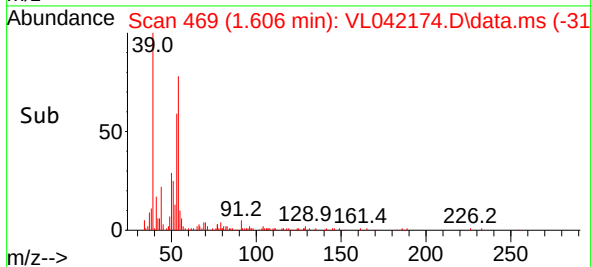
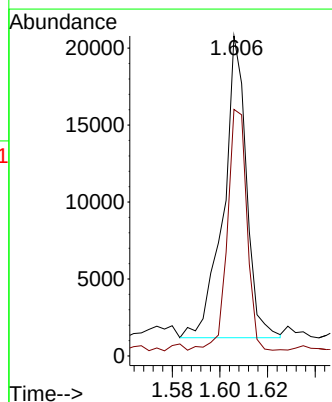
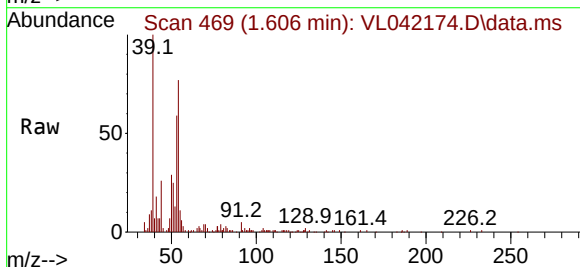
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

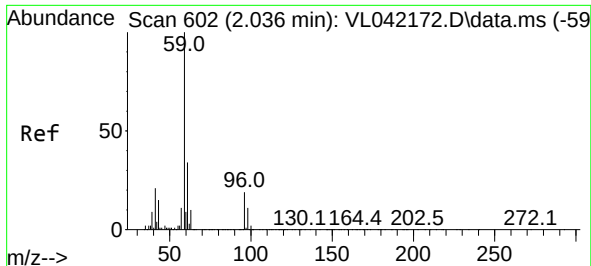
Tgt Ion: 43 Resp: 29294
Ion Ratio Lower Upper
43 100
58 31.6 23.2 34.8



#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 :

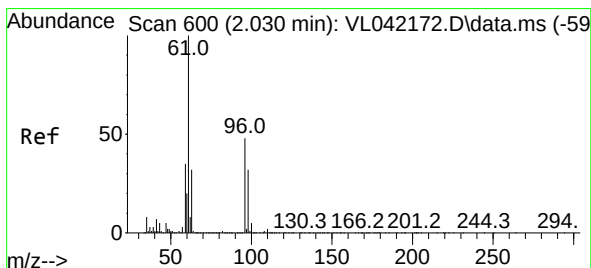
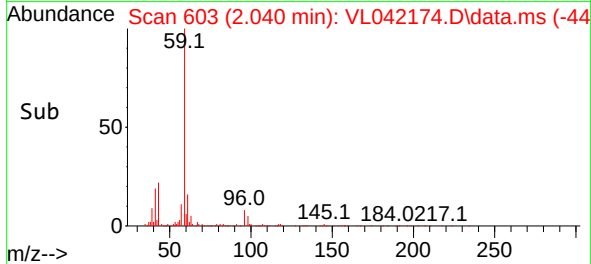
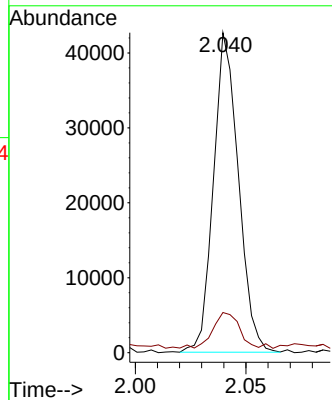
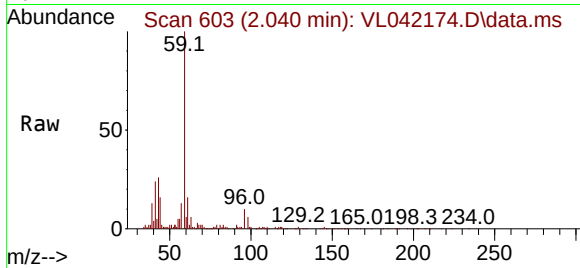
VSTDIC001

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

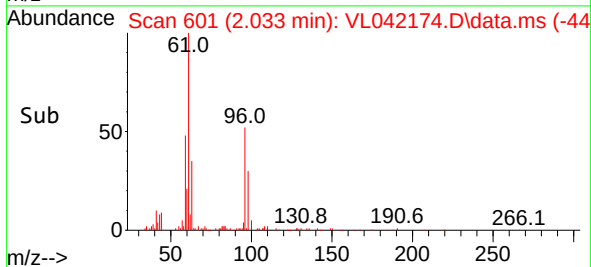
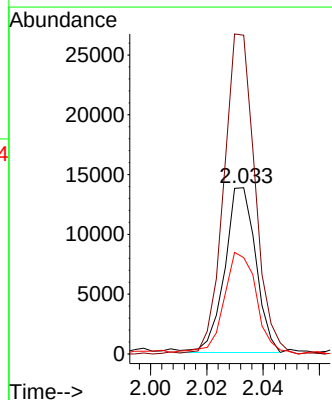
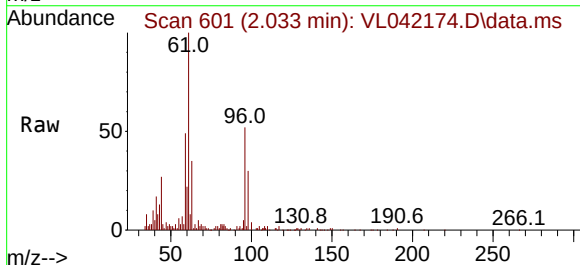
Tgt Ion: 96 Resp: 10532

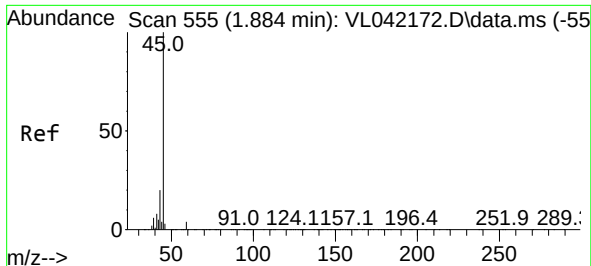
Ion Ratio Lower Upper

96 100

61 192.9 167.6 251.4

98 56.7 53.5 80.3

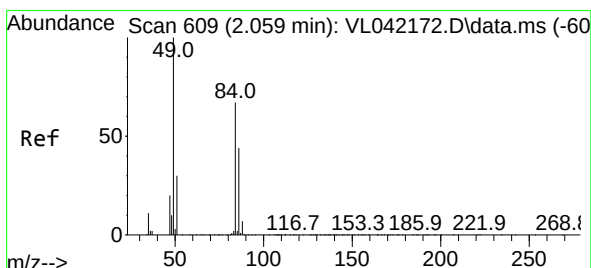
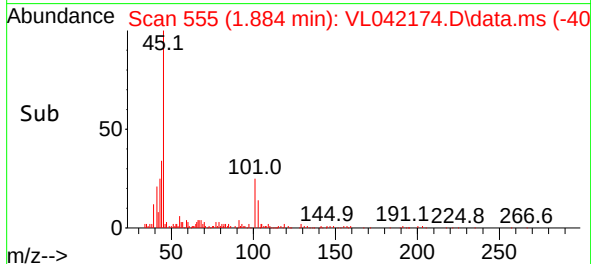
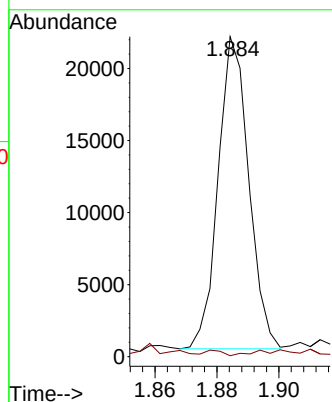
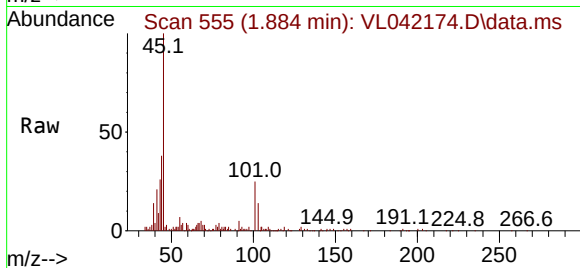




#19
Isopropyl Alcohol
Concen: 1.014 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

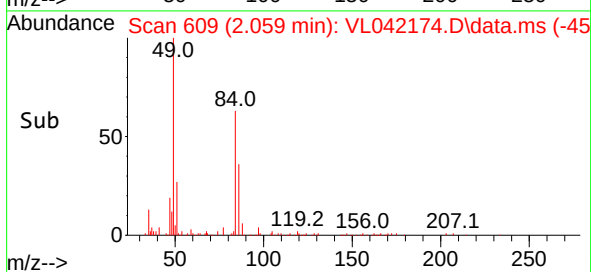
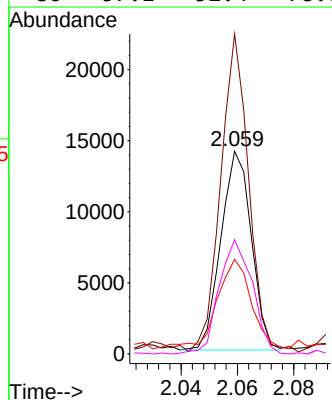
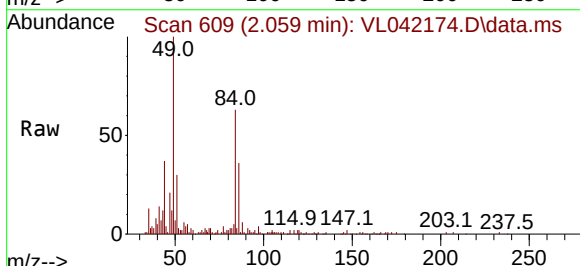
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

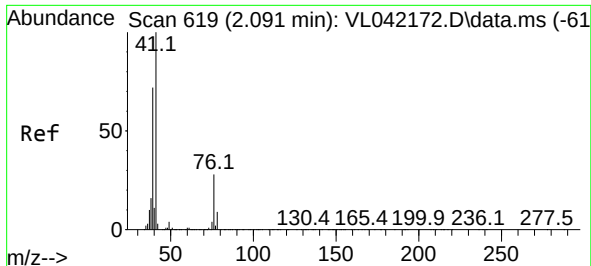
Tgt Ion: 45 Resp: 14903
Ion Ratio Lower Upper
45 100
58 4.9 36.9 55.3#



#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

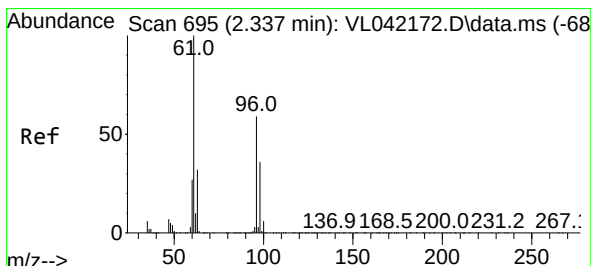
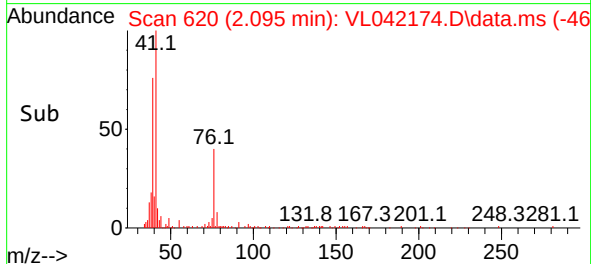
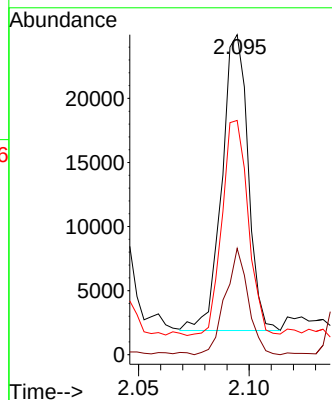
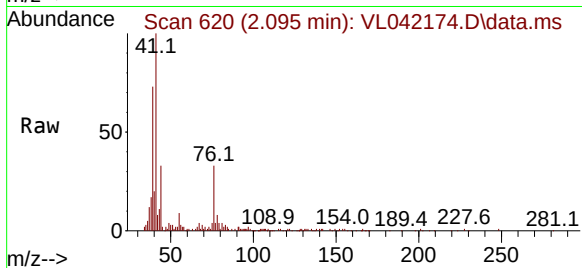




#21
 Allyl Chloride
 Concen: 1.036 ppbv
 RT: 2.095 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

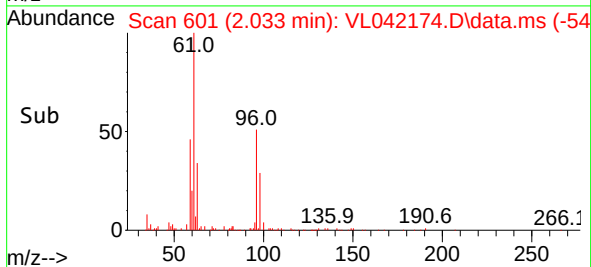
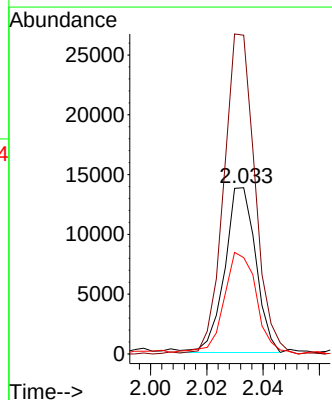
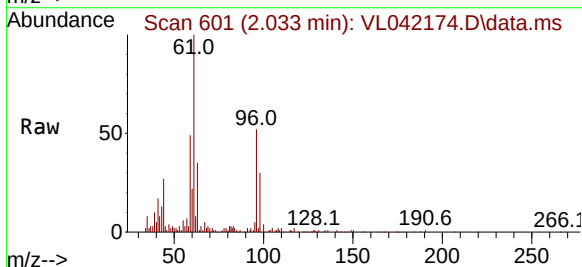
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

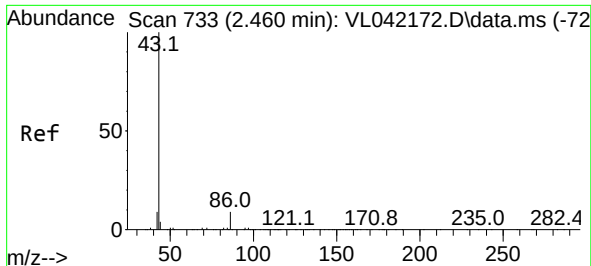
Tgt Ion: 41 Resp: 19039
 Ion Ratio Lower Upper
 41 100
 76 30.5 24.1 36.1
 39 77.8 61.1 91.7



#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

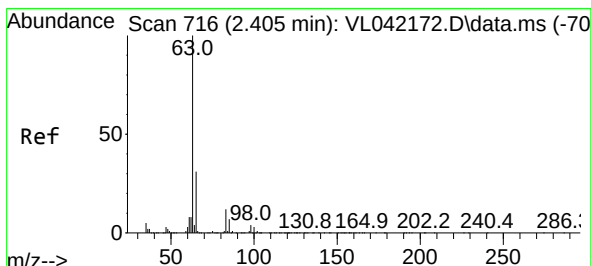
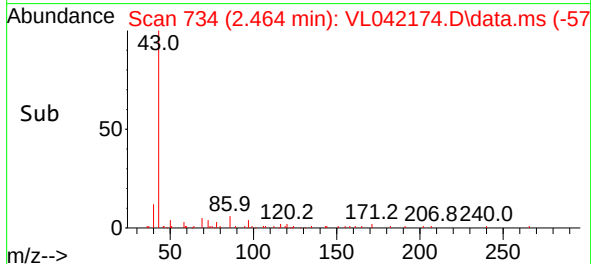
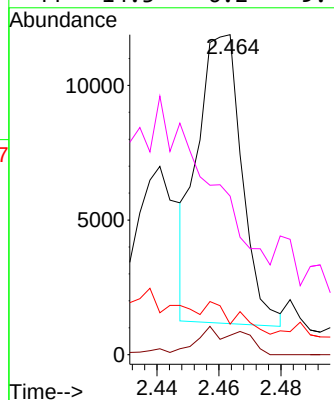
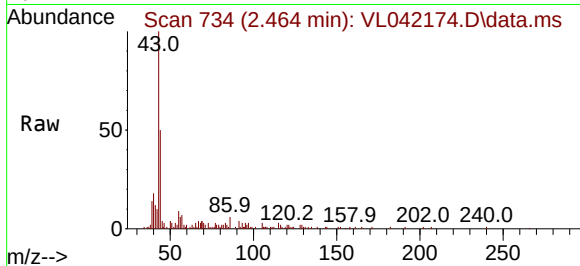




#23
 Vinyl Acetate
 Concen: 0.983 ppbv
 RT: 2.464 min Scan# 716
 Delta R.T. 0.003 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

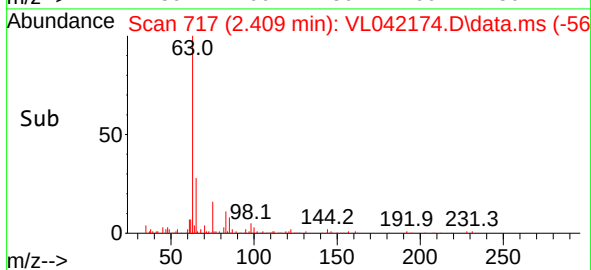
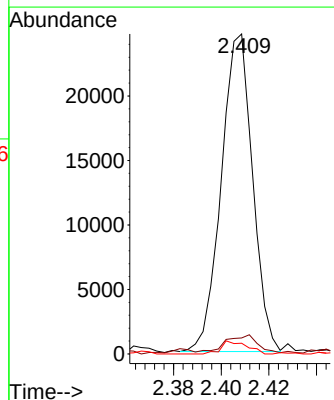
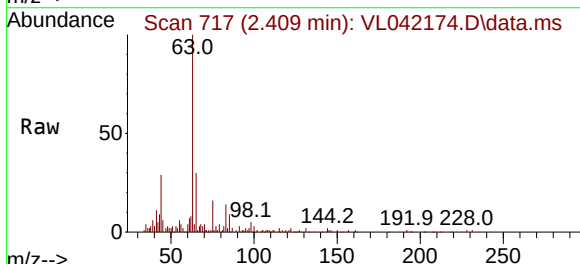
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

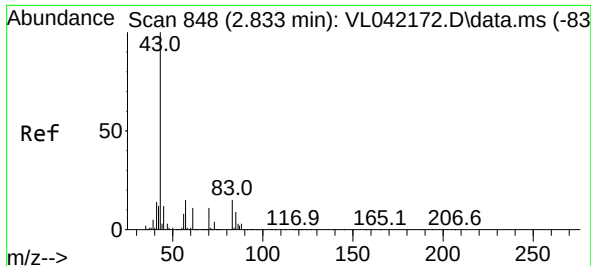
Tgt Ion:	43	Resp:	10644
Ion	Ratio	Lower	Upper
43	100		
86	6.9	5.5	8.3
42	2.4	8.6	13.0#
44	14.3	6.2	9.4#



#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

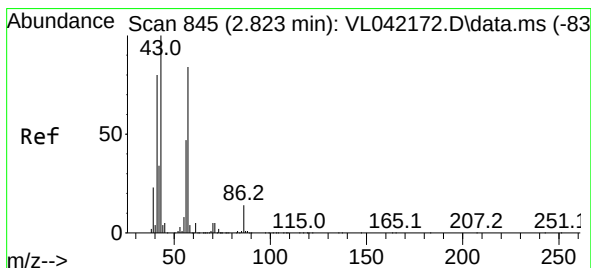
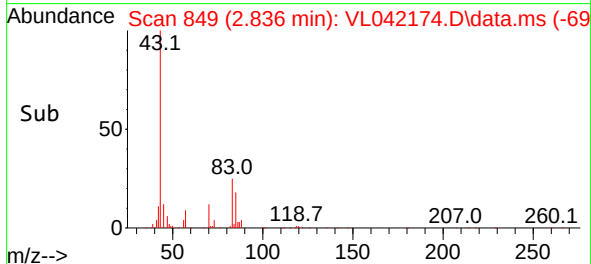
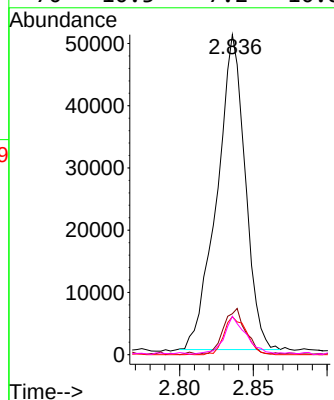
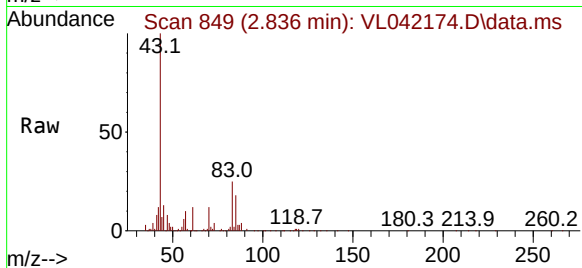




#25
Ethyl Acetate
Concen: 0.997 ppbv
RT: 2.836 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

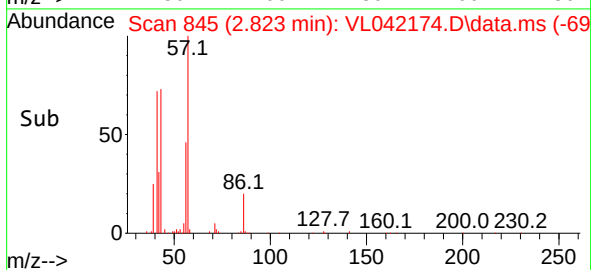
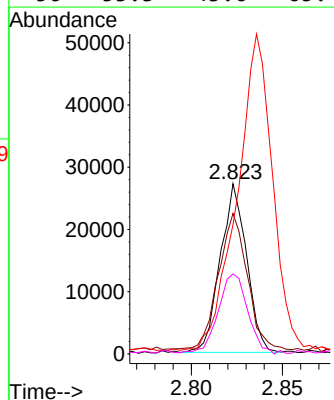
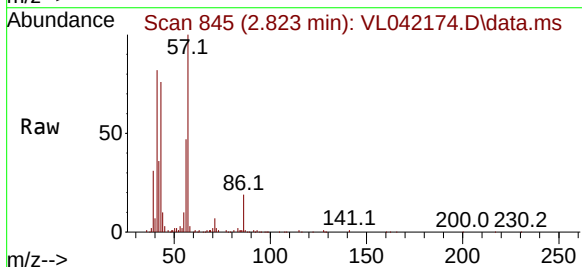
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

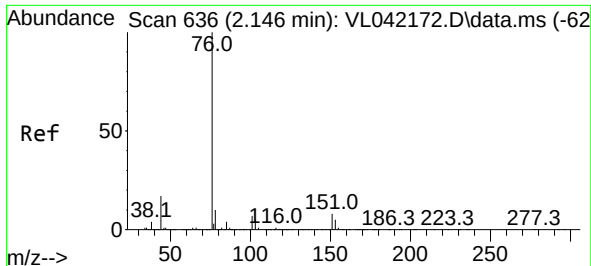
Tgt Ion: 43	Resp: 67402
Ion Ratio	Lower Upper
43 100	
45 12.3	8.2 12.2#
61 9.6	7.3 10.9
70 10.3	7.2 10.8



#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

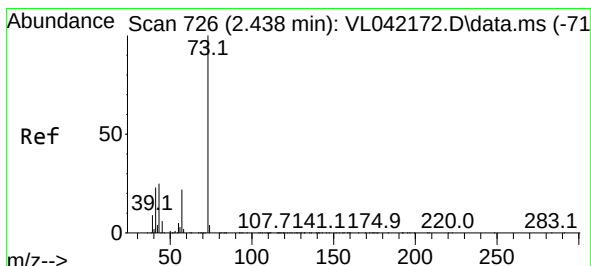
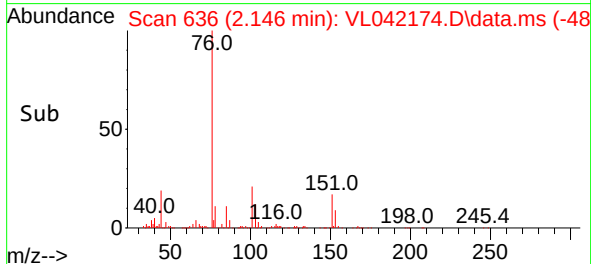
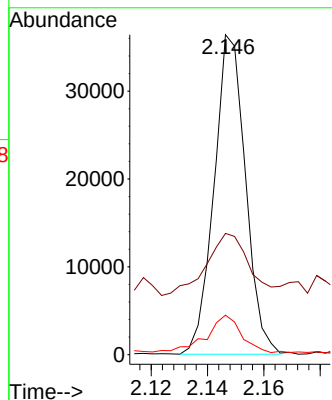
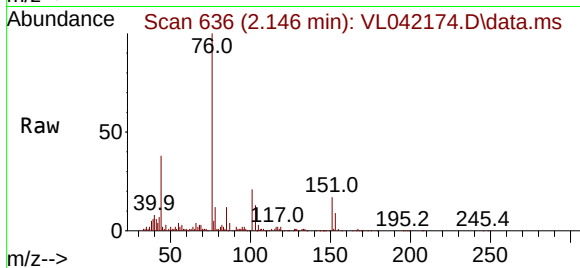




#27
Carbon Disulfide
Concen: 1.006 ppbv
RT: 2.146 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

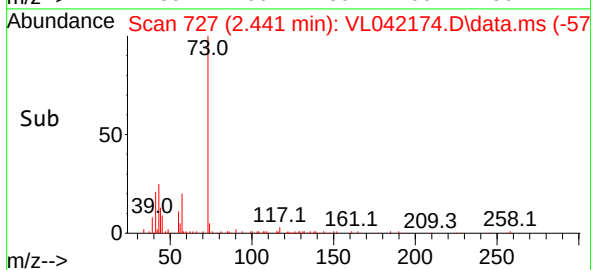
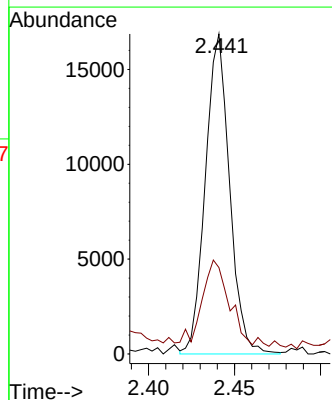
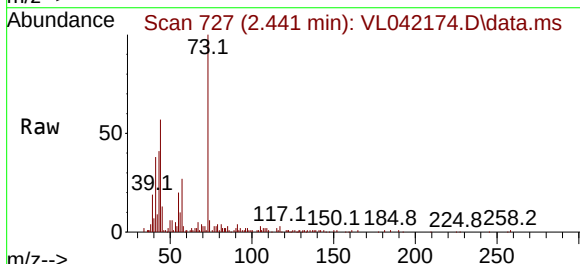
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC001

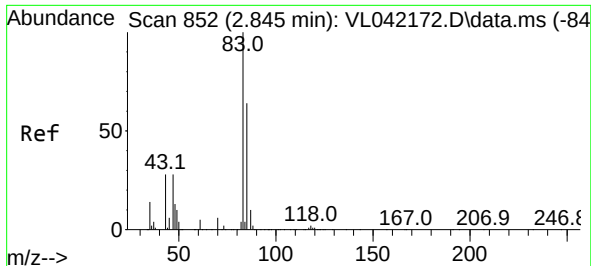
Tgt Ion: 76 Resp: 28167
Ion Ratio Lower Upper
76 100
44 54.6 14.7 22.1#
78 15.0 9.3 13.9#



#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

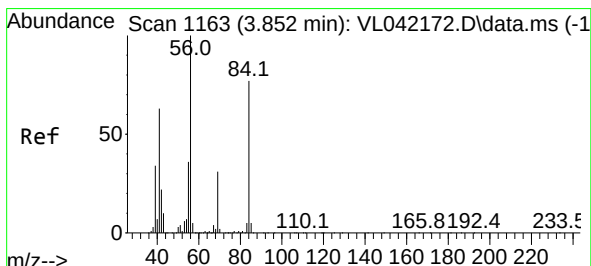
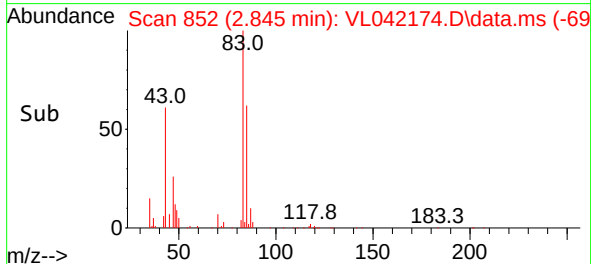
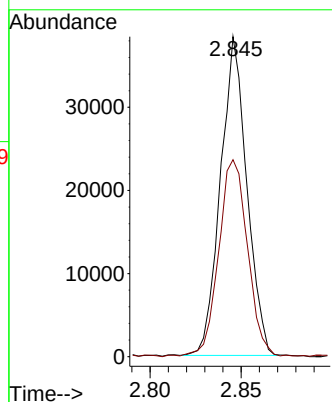
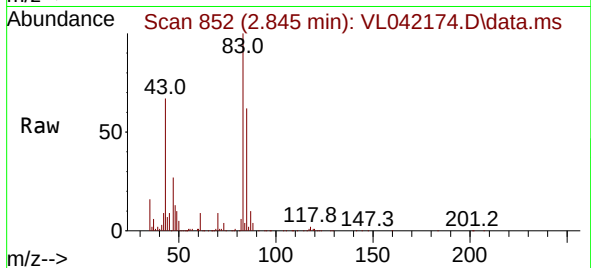




#29
Chloroform
Concen: 1.008 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

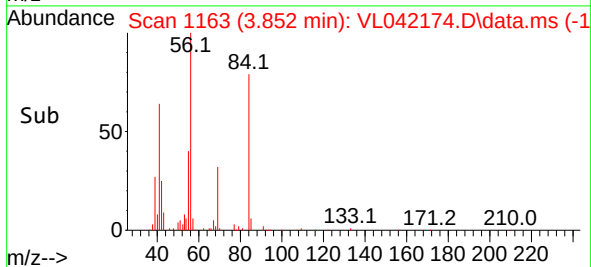
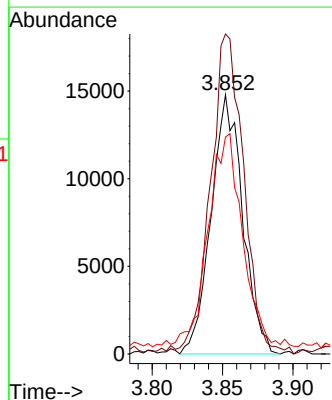
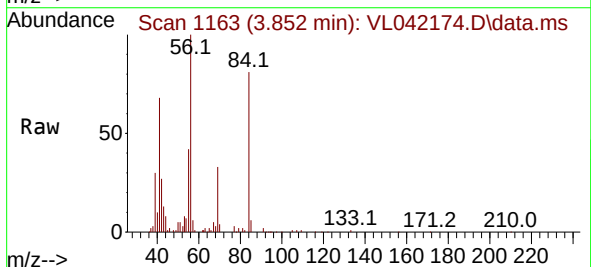
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

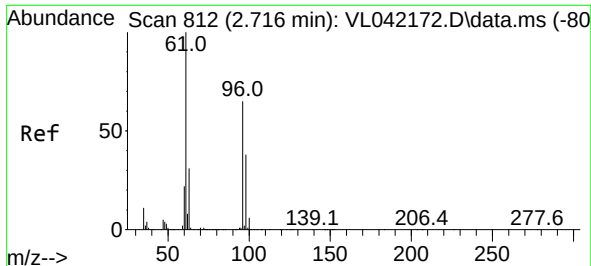
Tgt Ion: 83 Resp: 38516
Ion Ratio Lower Upper
83 100
85 61.6 51.4 77.2



#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

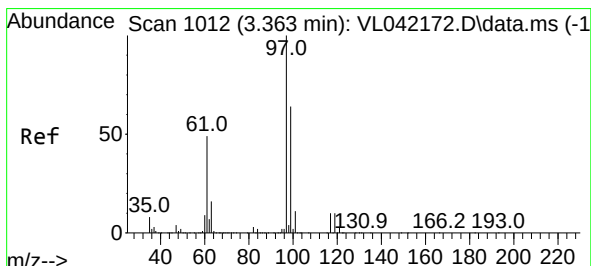
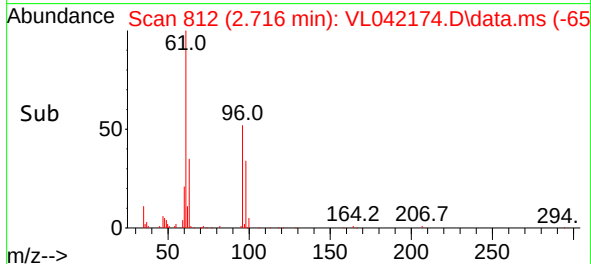
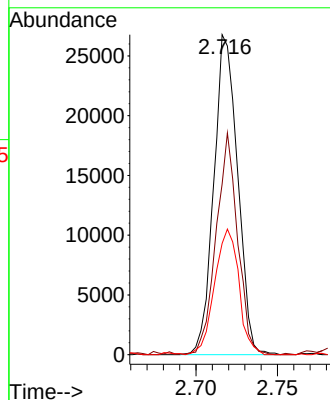
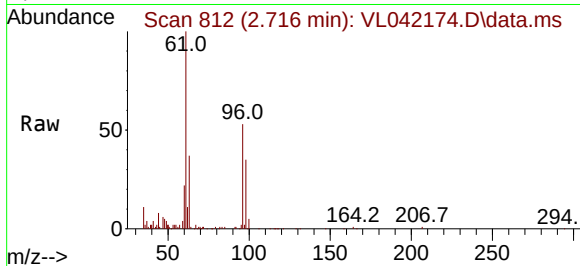




#31
 cis-1,2-Dichloroethene
 Concen: 1.026 ppbv
 RT: 2.716 min Scan# 812
 Delta R.T. 0.000 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

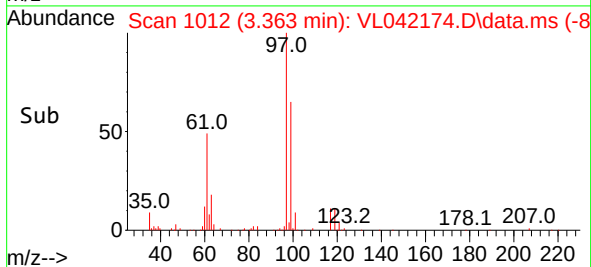
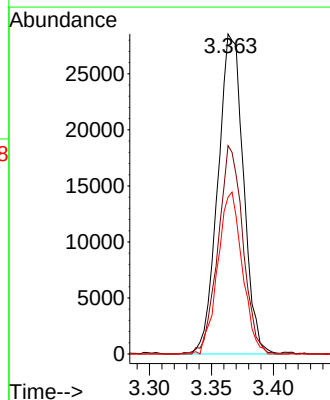
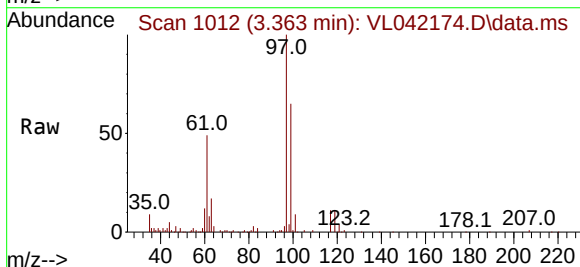
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

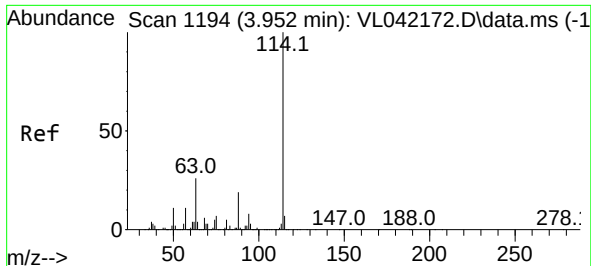
Tgt Ion: 61 Resp: 27187
 Ion Ratio Lower Upper
 61 100
 96 53.3 51.8 77.8
 98 34.8 30.6 46.0



#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

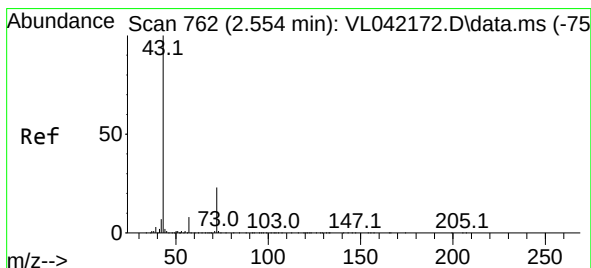
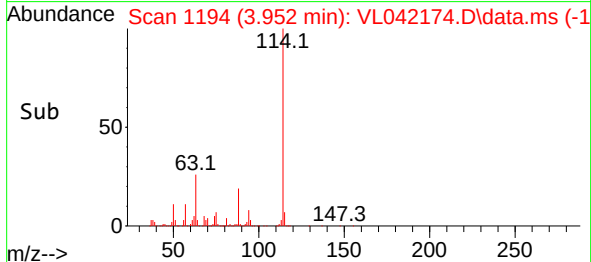
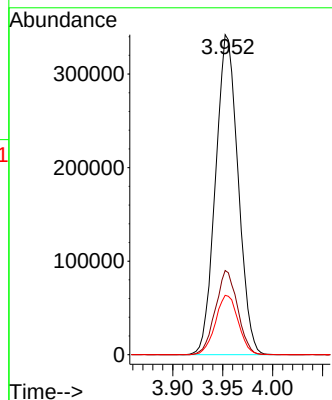
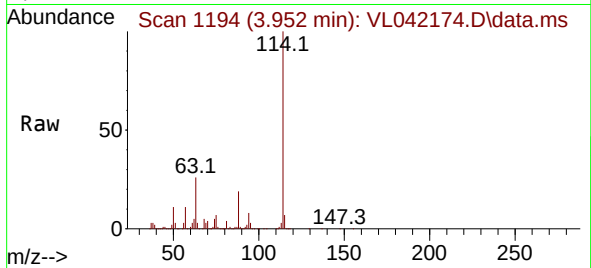




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

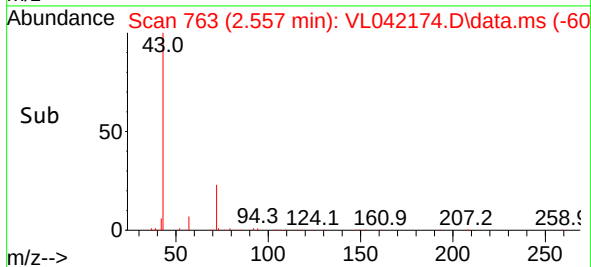
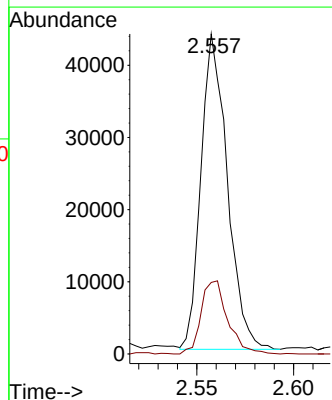
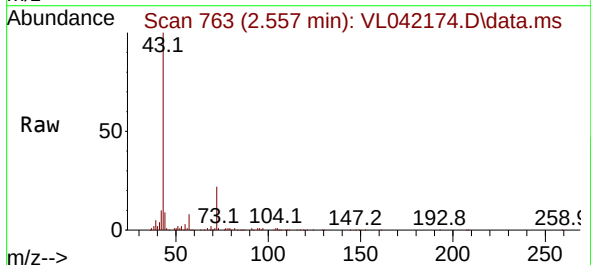
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

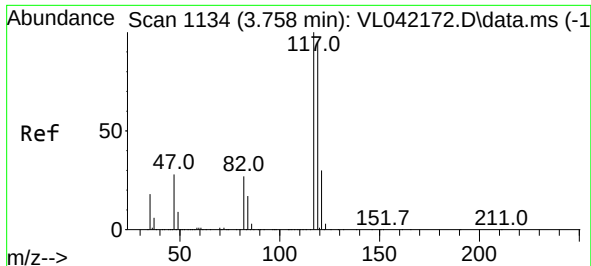
Tgt Ion:114 Resp: 537244
Ion Ratio Lower Upper
114 100
63 25.8 20.7 31.1
88 18.8 15.0 22.4



#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

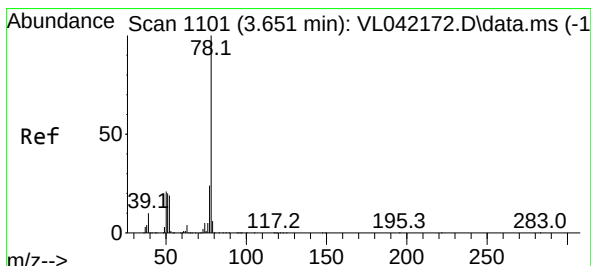
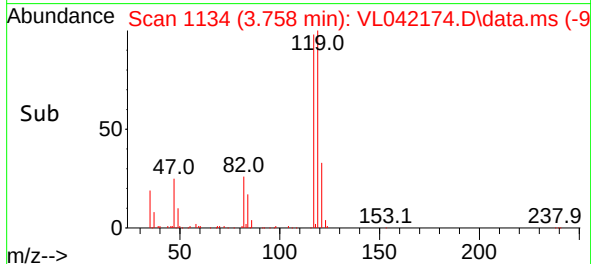
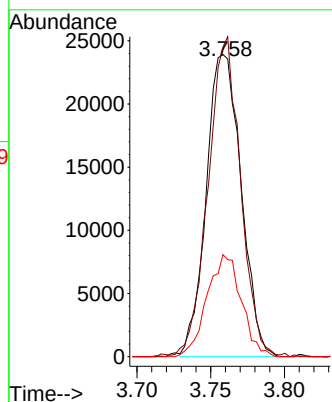
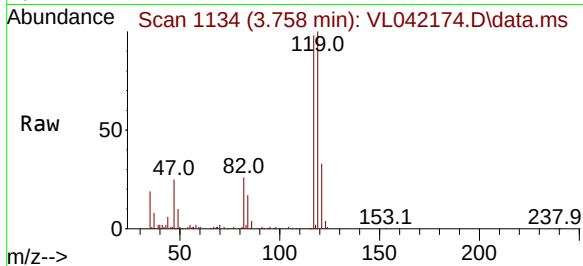




#35
Carbon Tetrachloride
Concen: 0.952 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

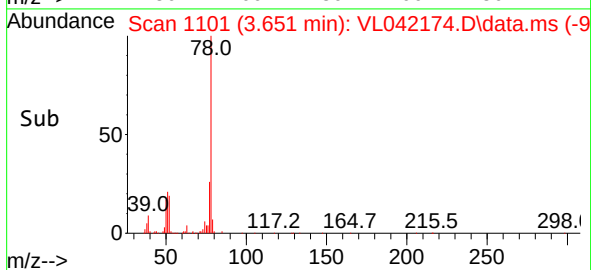
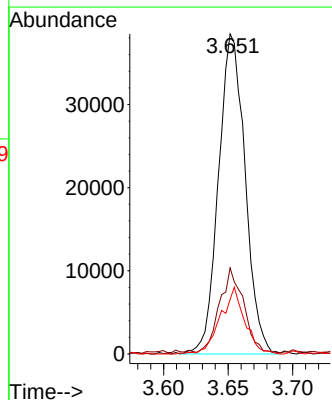
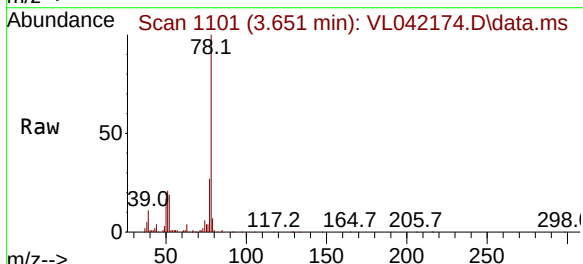
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

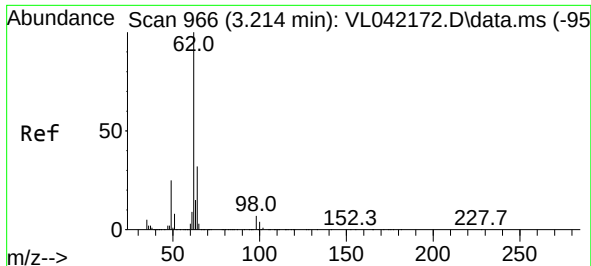
Tgt Ion:117 Resp: 39345
Ion Ratio Lower Upper
117 100
119 101.8 76.2 114.2
121 33.7 24.2 36.4



#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# 9

Delta R.T. 0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

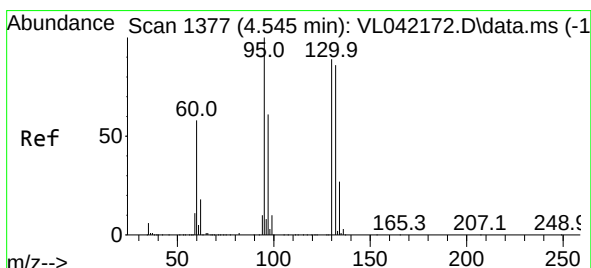
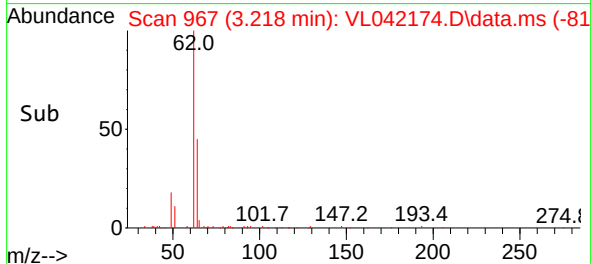
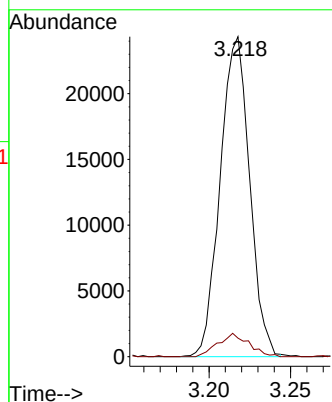
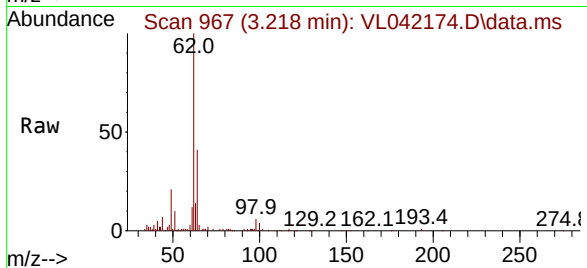
VSTDIC001

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

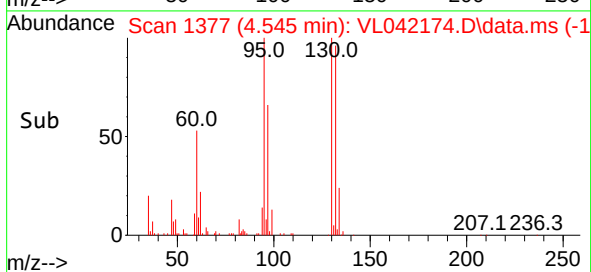
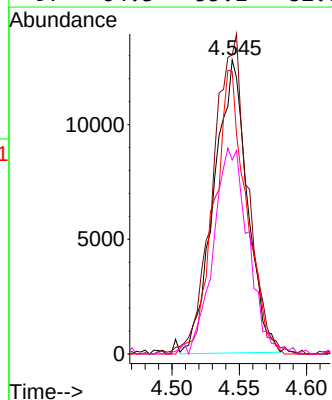
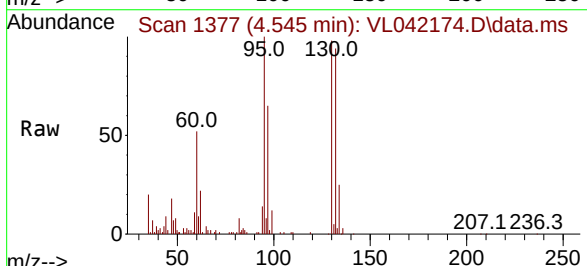
Ion Ratio Lower Upper

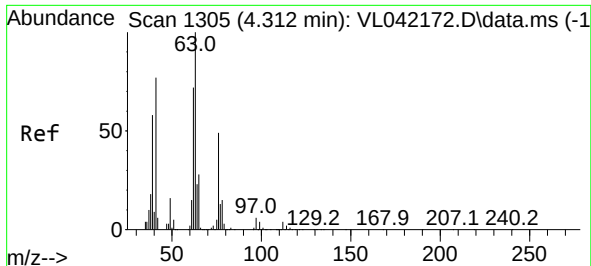
130 100

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

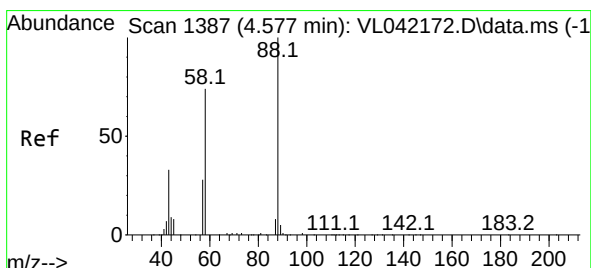
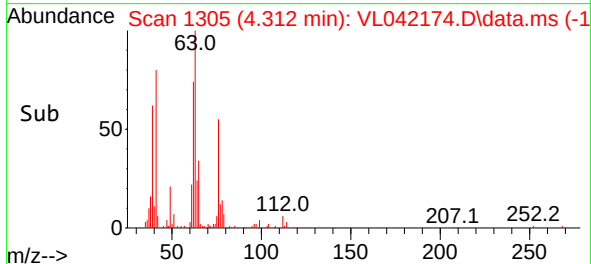
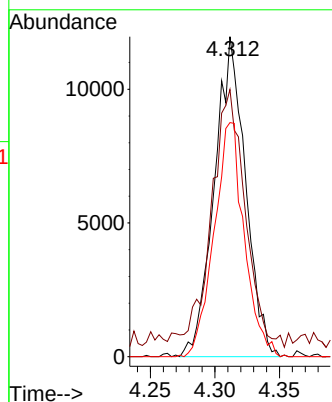
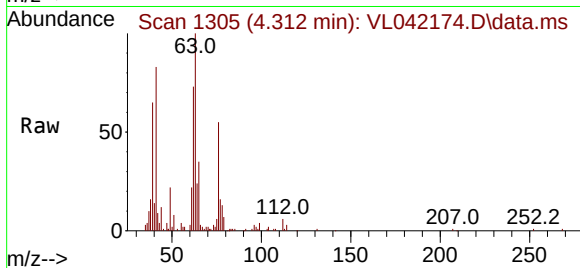
Tgt Ion: 63 Resp: 20020

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

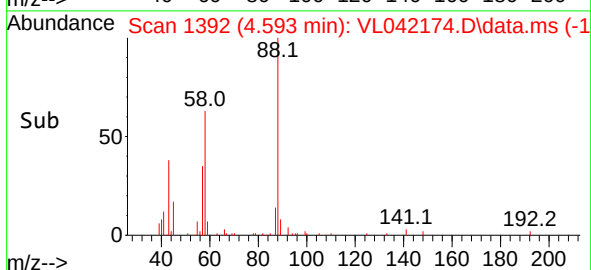
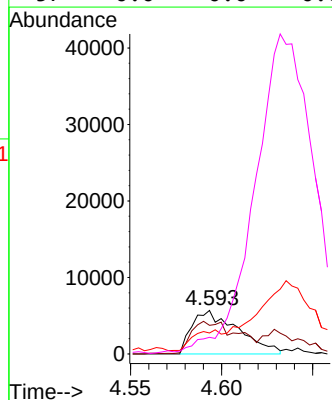
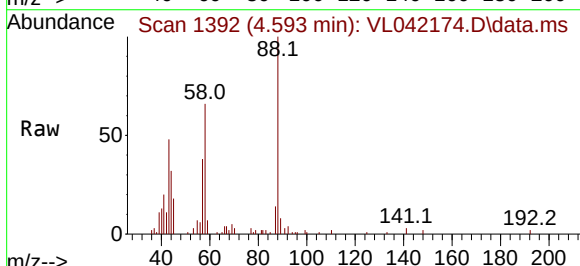
Ion Ratio Lower Upper

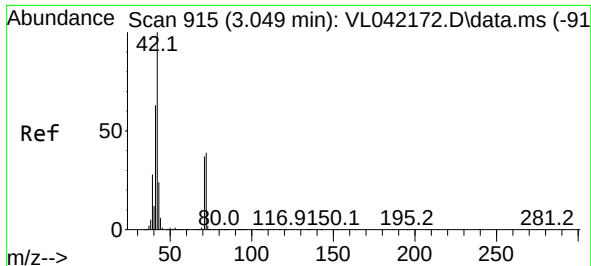
88 100

58 121.8 62.7 94.1#

43 0.0 23.0 34.4#

57 0.0 0.0 0.0

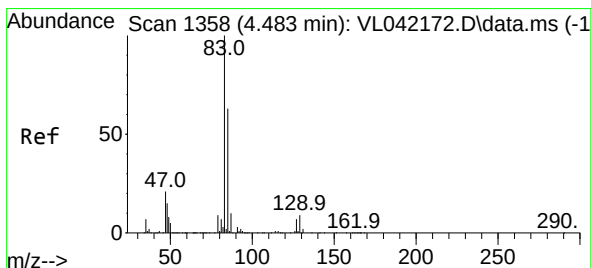
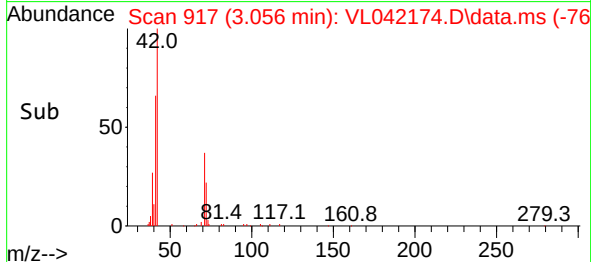
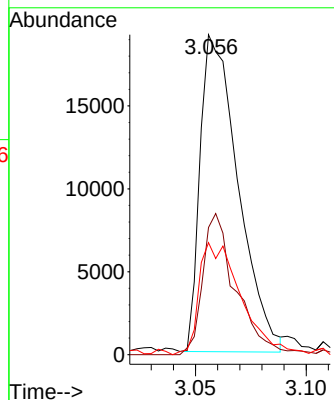
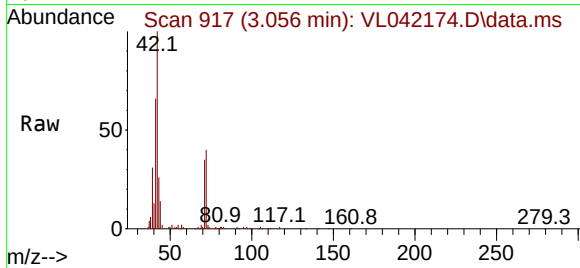




#41
Tetrahydrofuran
Concen: 1.029 ppbv
RT: 3.056 min Scan# 915
Delta R.T. 0.007 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

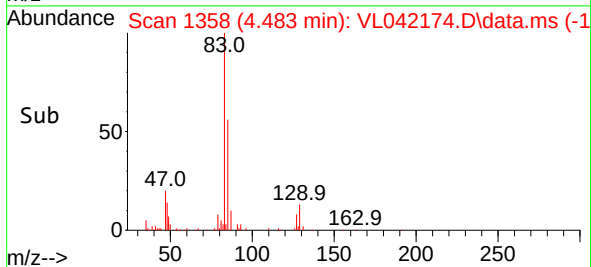
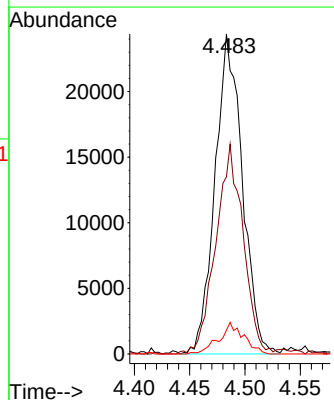
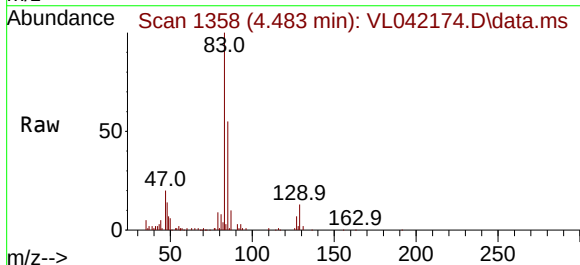
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

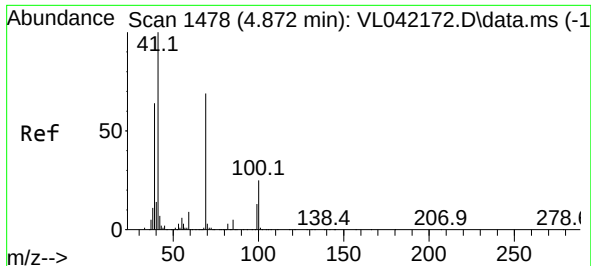
Tgt Ion: 42 Resp: 22818
Ion Ratio Lower Upper
42 100
72 39.4 31.4 47.0
71 40.8 30.2 45.4



#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

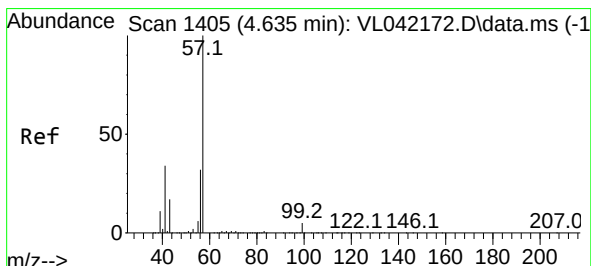
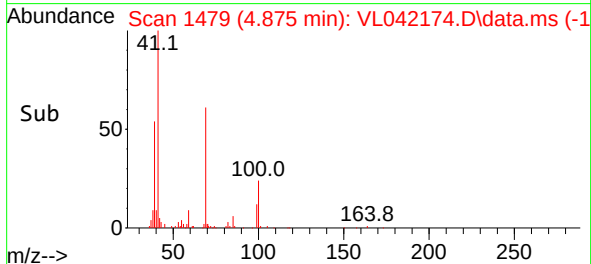
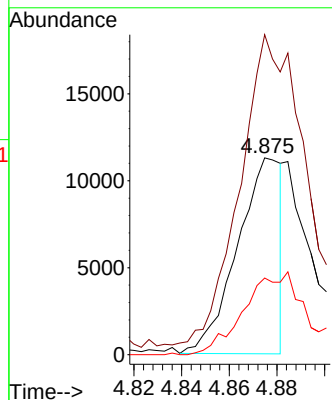
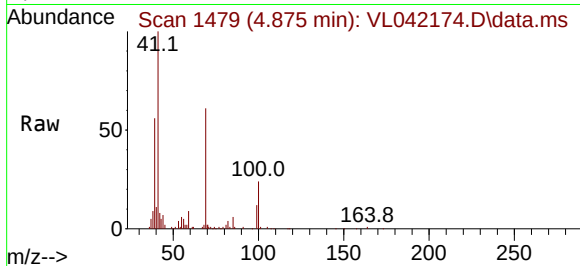




#43
Methyl Methacrylate
Concen: 0.640 ppbv
RT: 4.875 min Scan# 1478
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

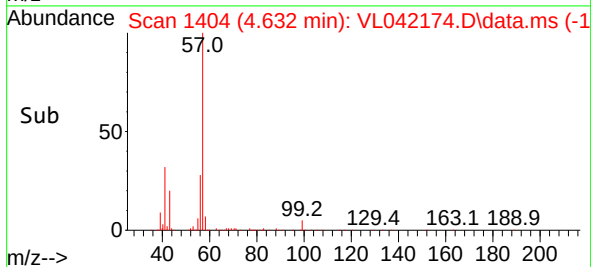
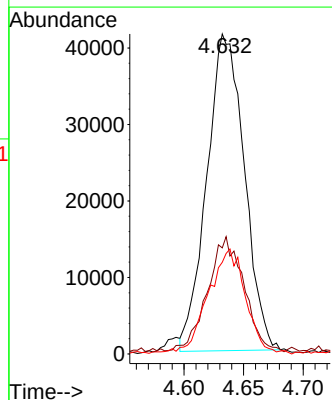
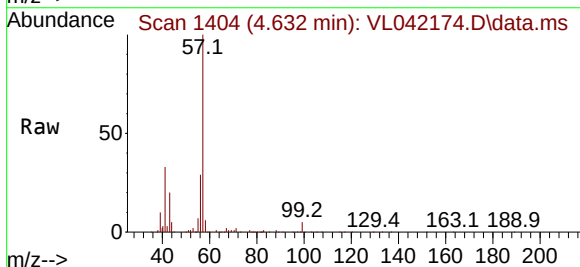
Instrument : MSVOA_1
ClientSampleId : VSTDIC001

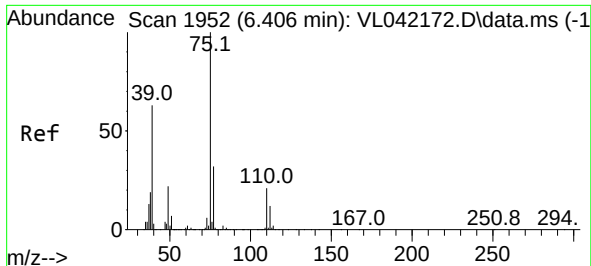
Tgt Ion: 69 Resp: 14387
Ion Ratio Lower Upper
69 100
41 246.1 123.8 185.6#
100 0.0 28.4 42.6#



#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# 1954

Delta R.T. 0.007 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

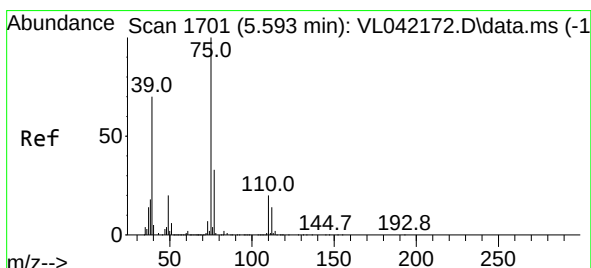
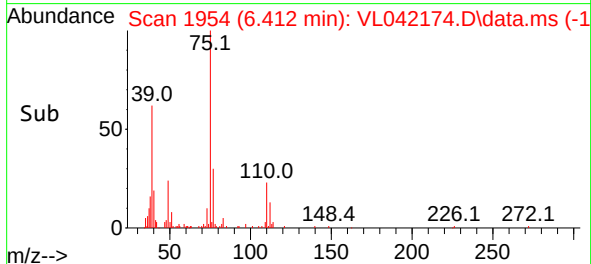
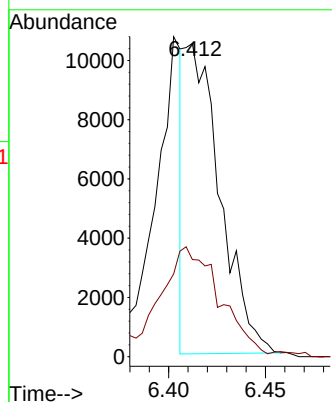
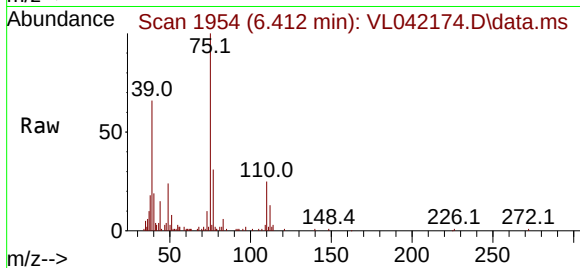
VSTDICC001

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

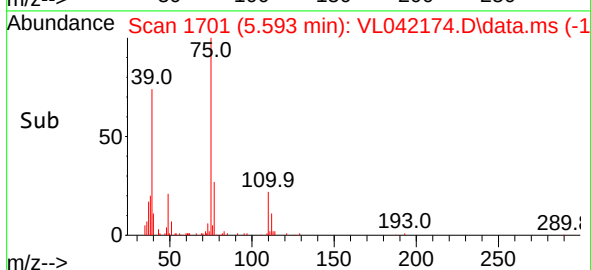
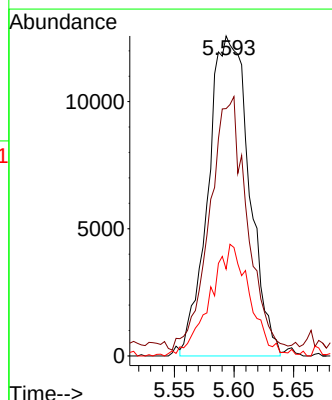
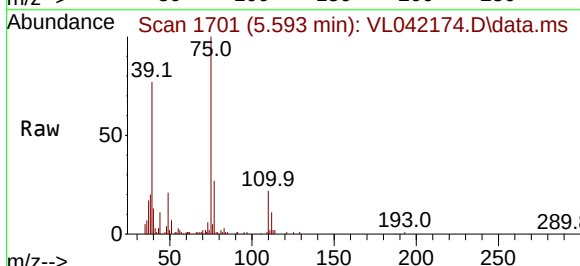
Tgt Ion: 75 Resp: 30063

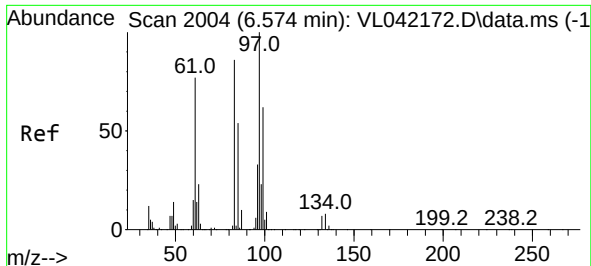
Ion Ratio Lower Upper

75 100

39 74.2 55.8 83.6

77 26.4 26.0 39.0

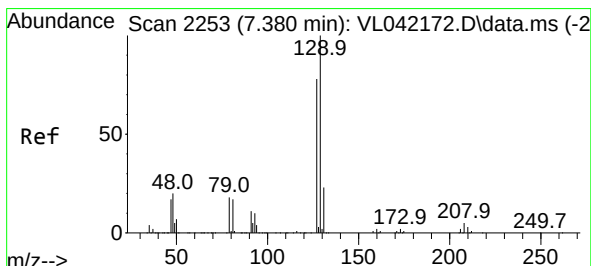
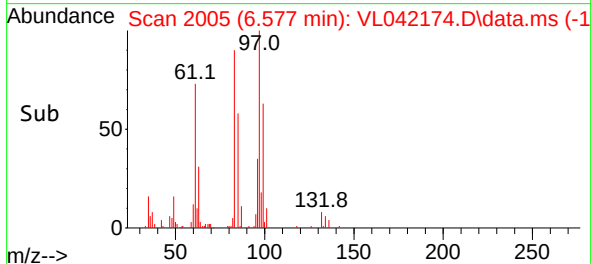
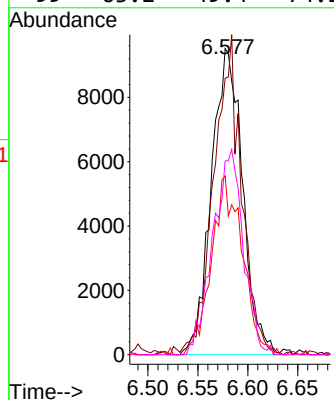
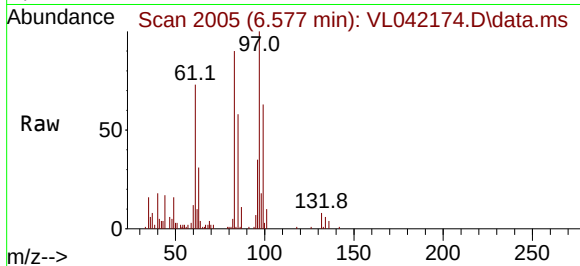




#47
1,1,2-Trichloroethane
Concen: 1.002 ppbv
RT: 6.577 min Scan# 2005
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

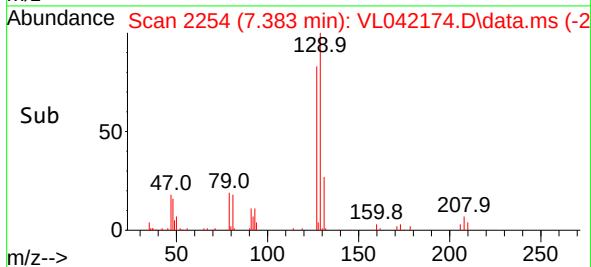
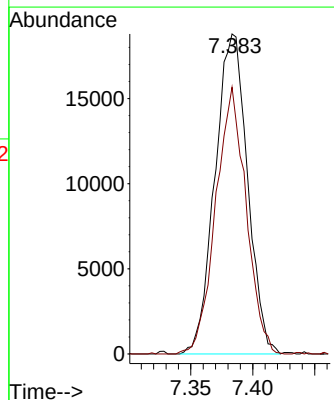
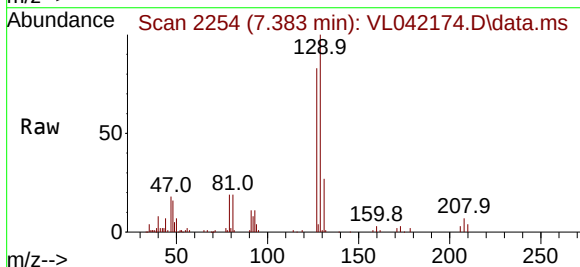
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

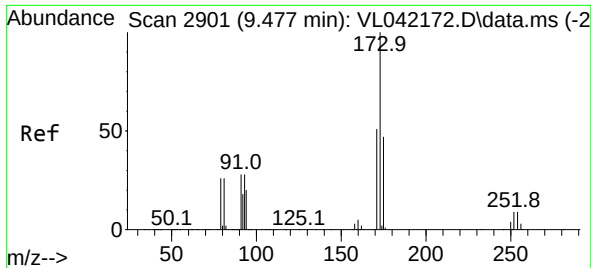
Tgt Ion:	97	Resp:	20546
Ion	Ratio	Lower	Upper
97	100		
83	89.7	69.2	103.8
85	58.4	43.1	64.7
99	63.2	49.4	74.2



#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

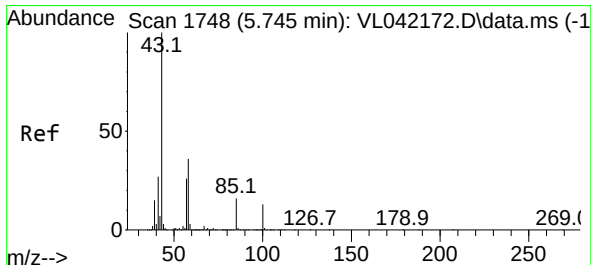
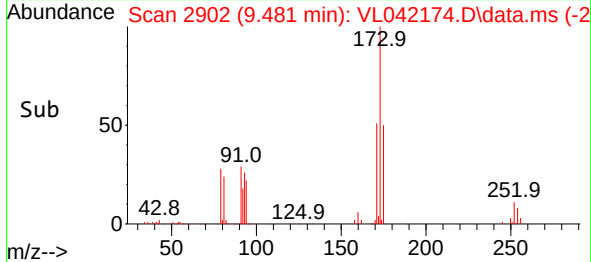
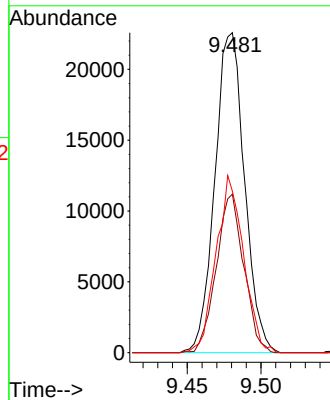
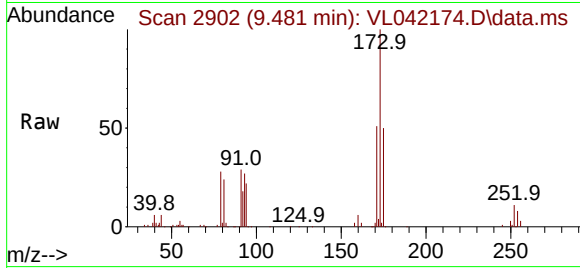
Tgt Ion:173 Resp: 31610

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

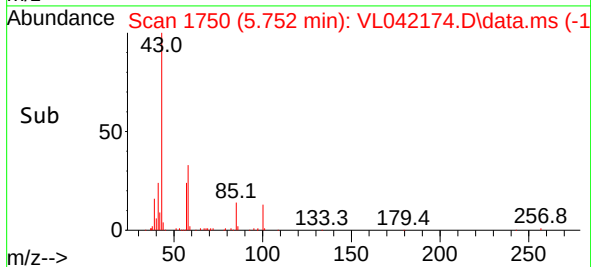
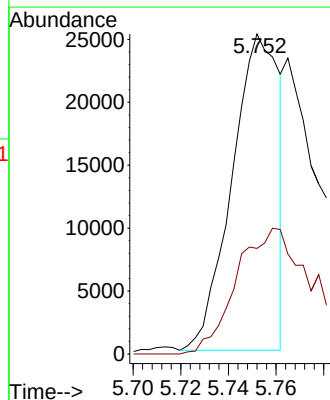
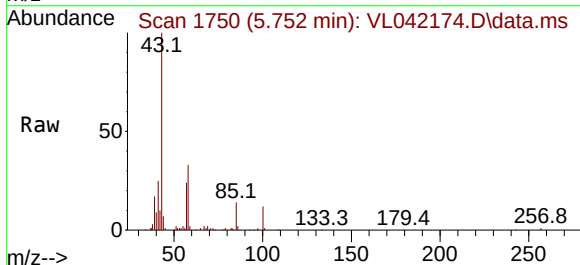
Acq: 27 Mar 2025 09:30

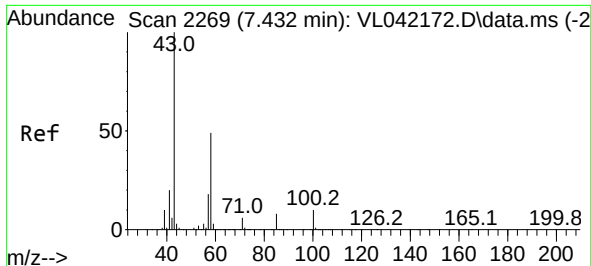
Tgt Ion: 43 Resp: 34358

Ion Ratio Lower Upper

43 100

58 0.0 29.0 43.6#

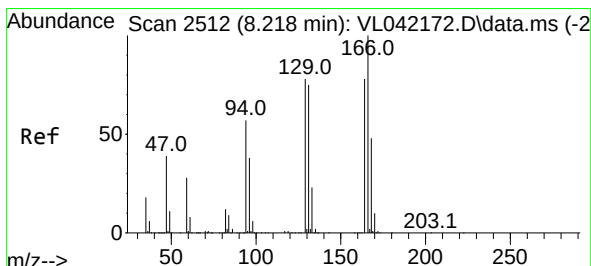
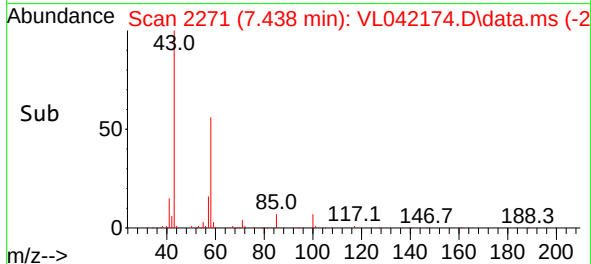
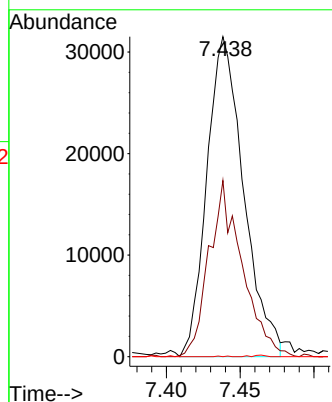
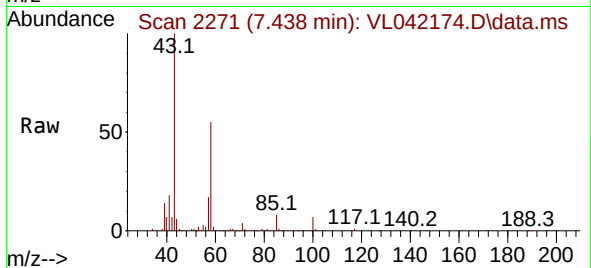




#51
2-Hexanone
Concen: 1.067 ppbv
RT: 7.438 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

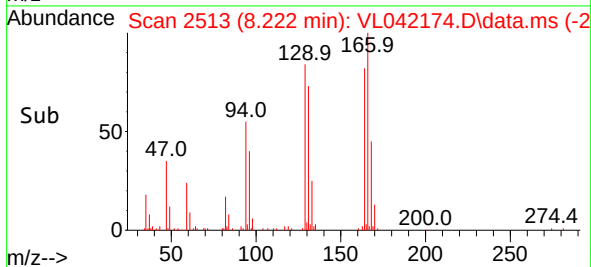
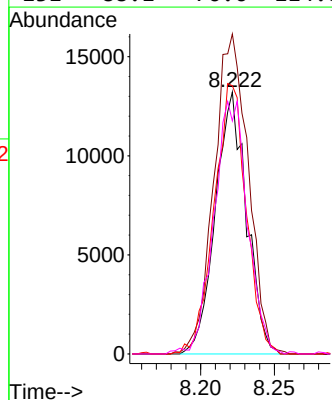
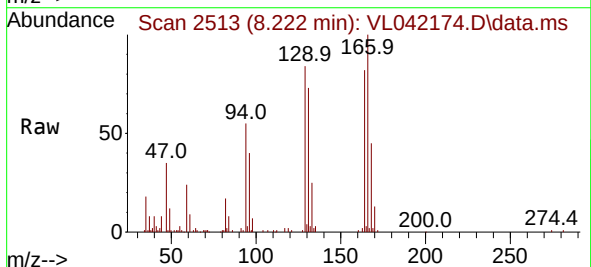
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

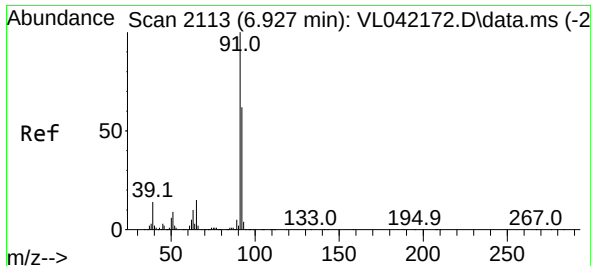
Tgt Ion: 43 Resp: 54680
Ion Ratio Lower Upper
43 100
58 49.8 39.7 59.5
98 0.2 0.1 0.1#



#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

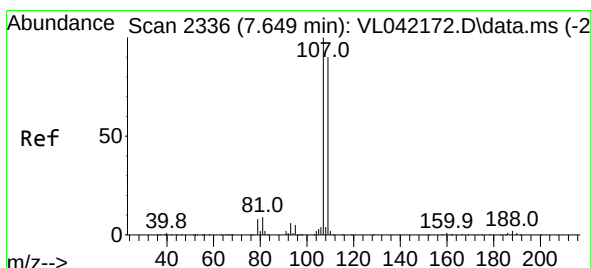
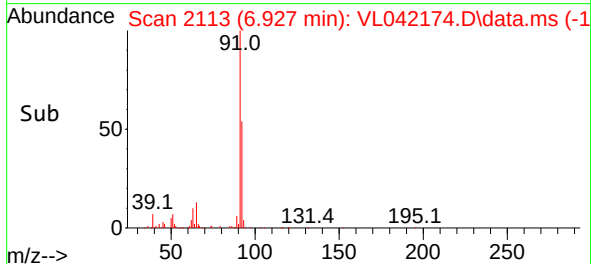
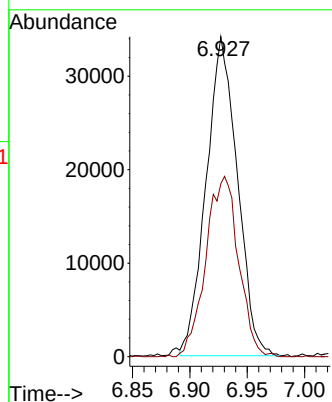
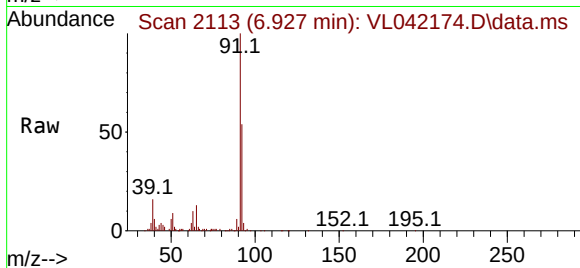




#53
Toluene
Concen: 1.023 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

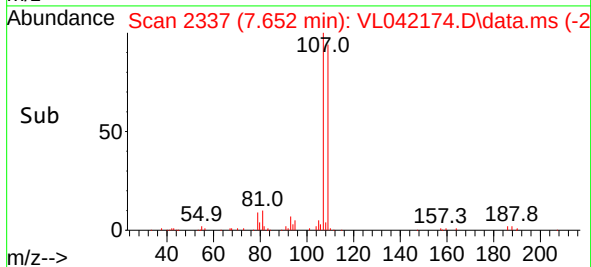
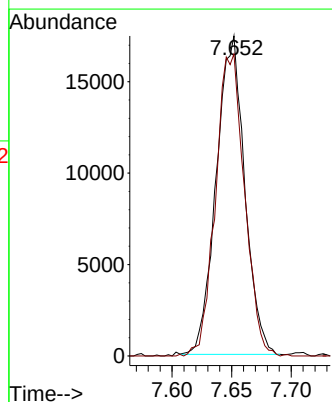
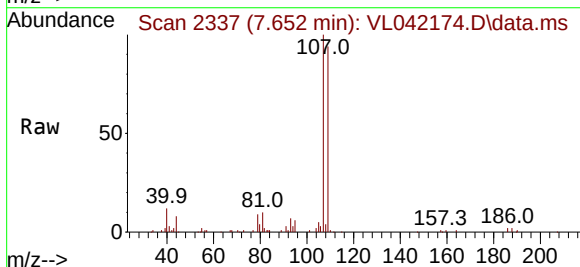
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

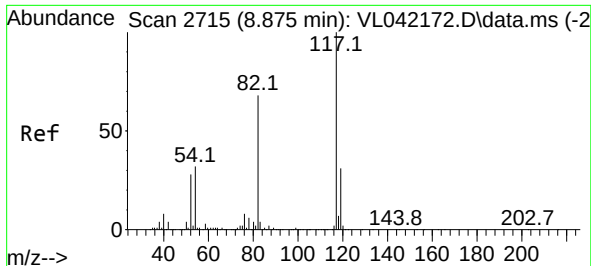
Tgt Ion: 91 Resp: 64612
Ion Ratio Lower Upper
91 100
92 59.4 48.4 72.6



#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

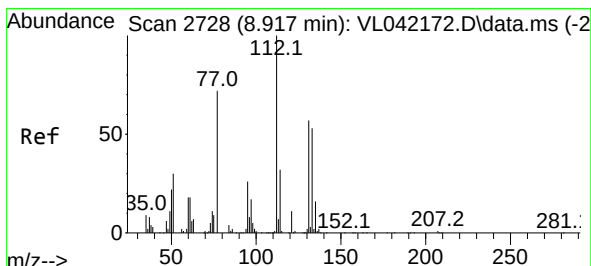
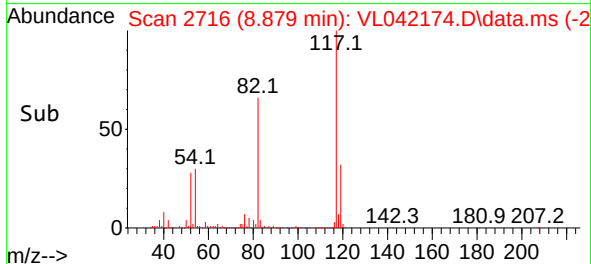
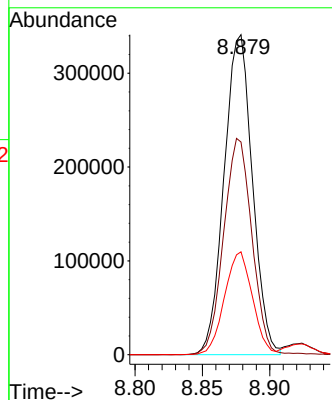
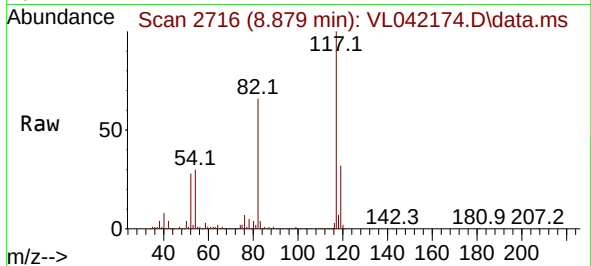




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

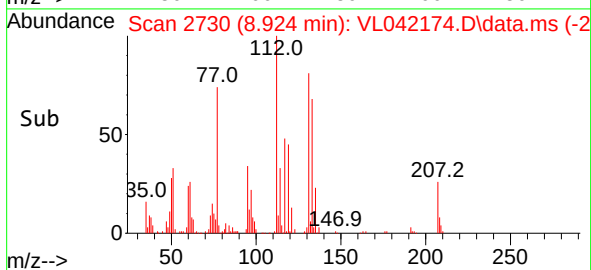
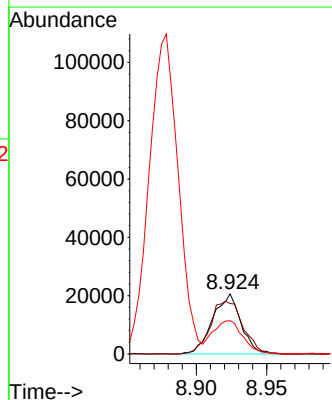
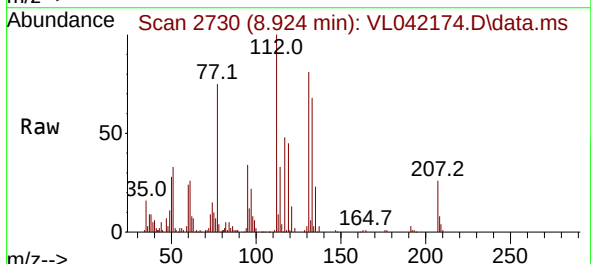
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

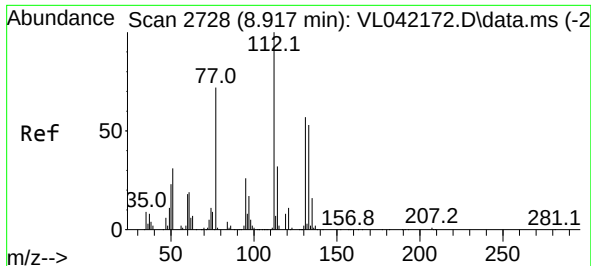
Tgt Ion:117 Resp: 499830
Ion Ratio Lower Upper
117 100
82 67.6 55.8 83.6
119 32.2 25.5 38.3



#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#

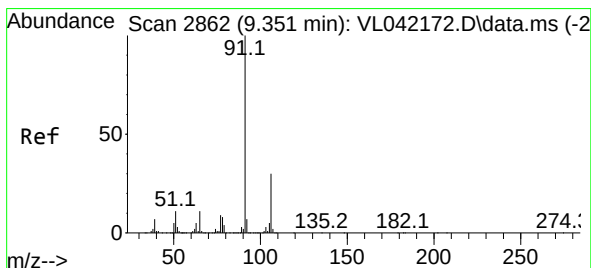
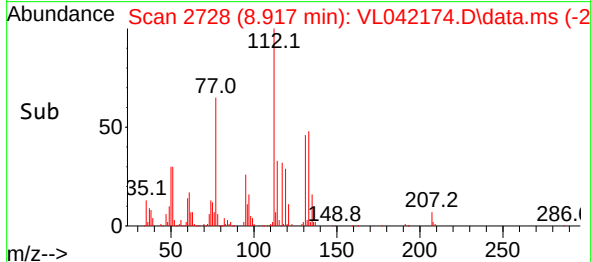
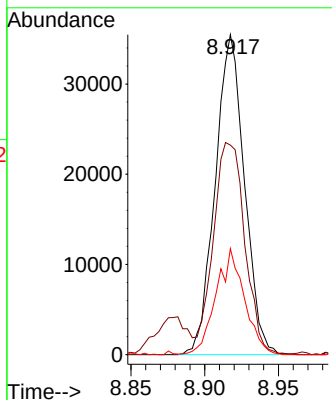
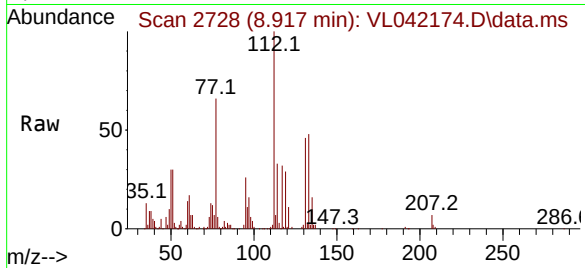




#57
Chlorobenzene
Concen: 1.032 ppbv
RT: 8.917 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

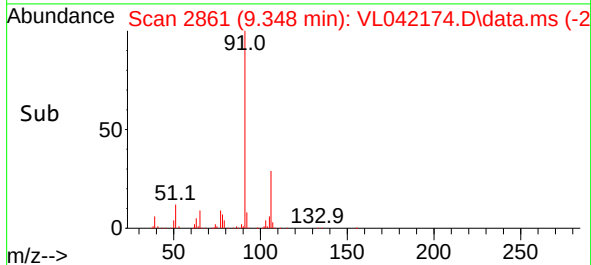
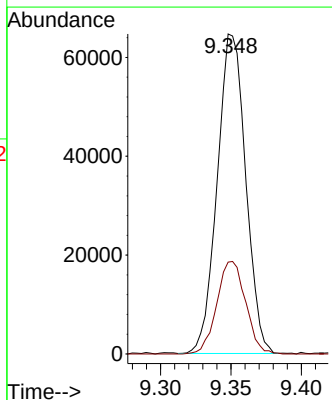
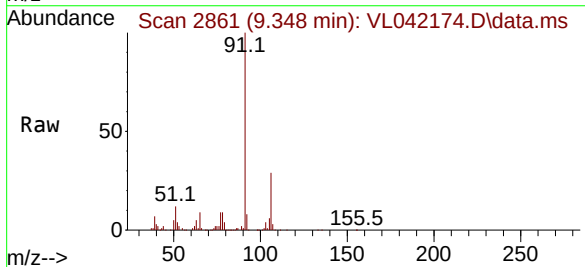
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

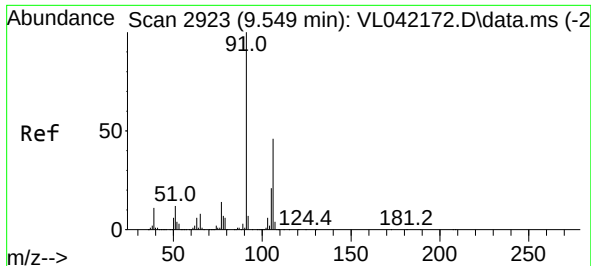
Tgt Ion:112 Resp: 48930
Ion Ratio Lower Upper
112 100
77 65.0 58.2 87.2
114 32.9 29.1 35.5



#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 :

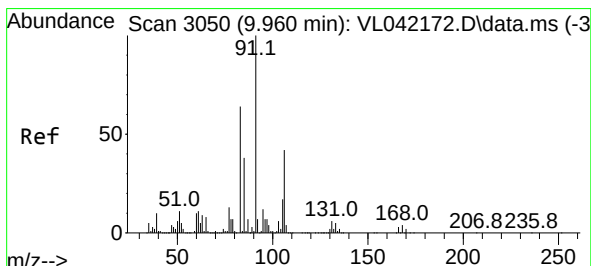
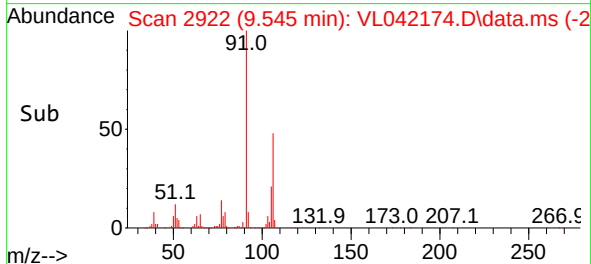
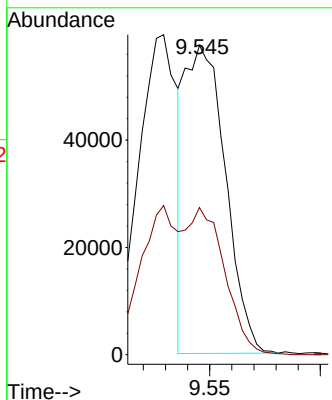
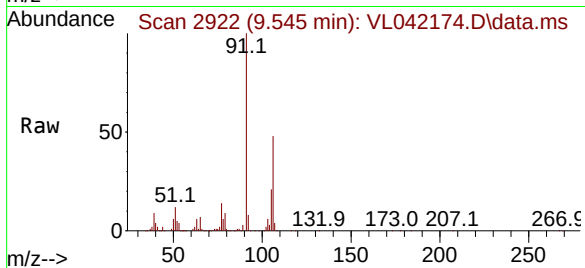
VSTDIC001

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

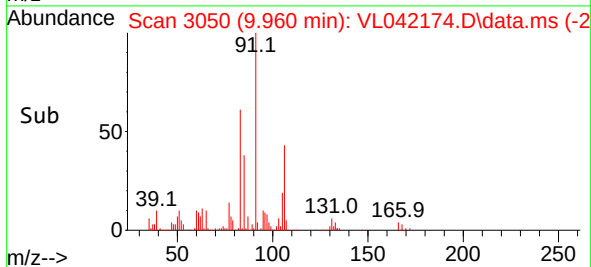
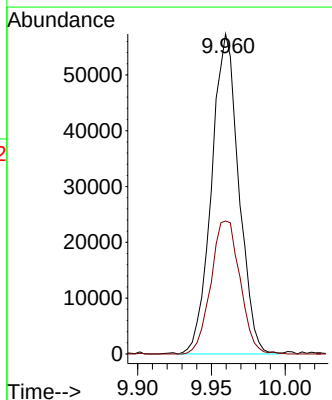
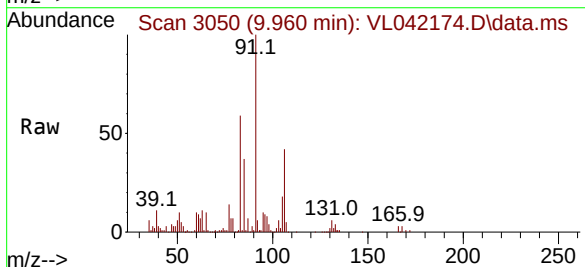
Acq: 27 Mar 2025 09:30

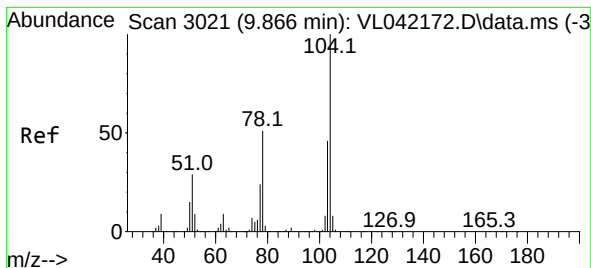
Tgt Ion: 91 Resp: 73702

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

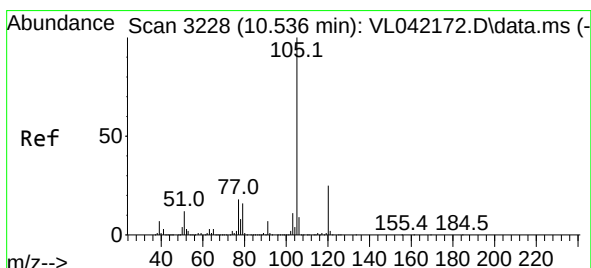
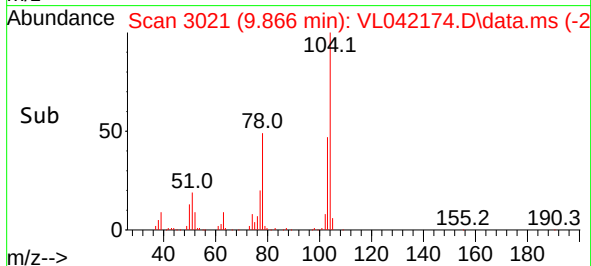
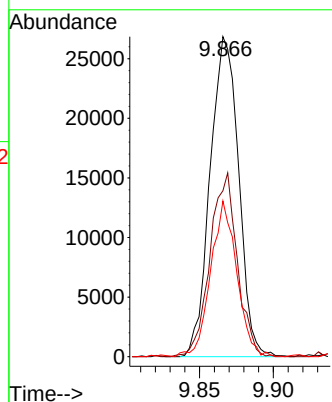
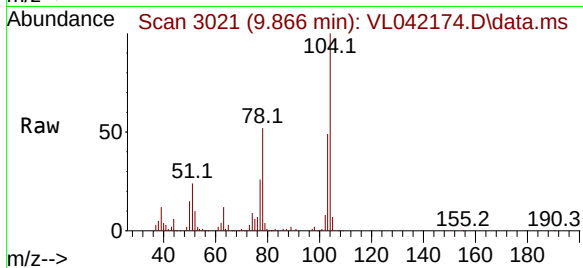
Tgt Ion:104 Resp: 36110

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

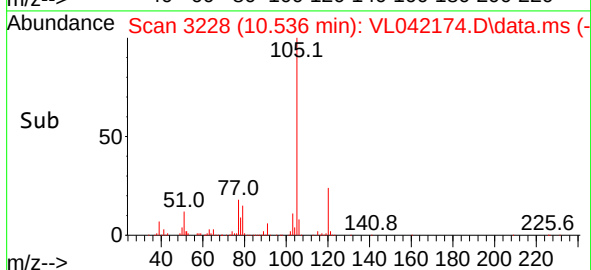
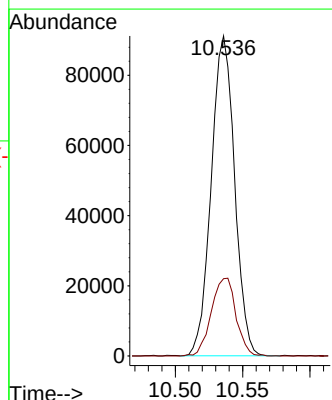
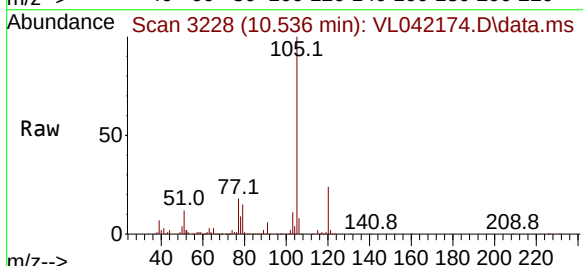
Acq: 27 Mar 2025 09:30

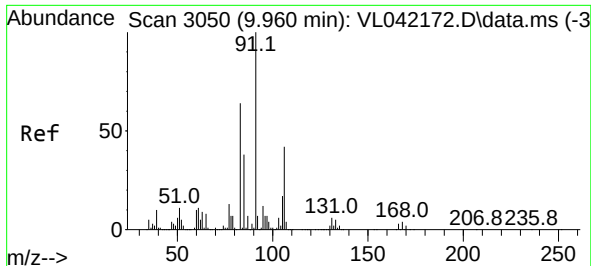
Tgt Ion:105 Resp: 109897

Ion Ratio Lower Upper

105 100

120 25.7 19.9 29.9

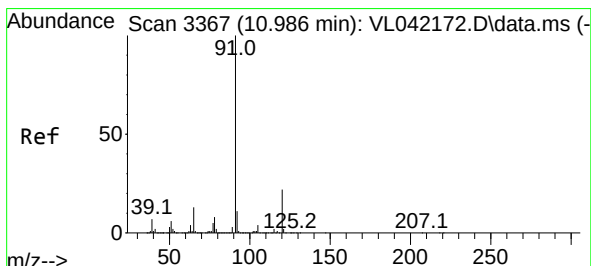
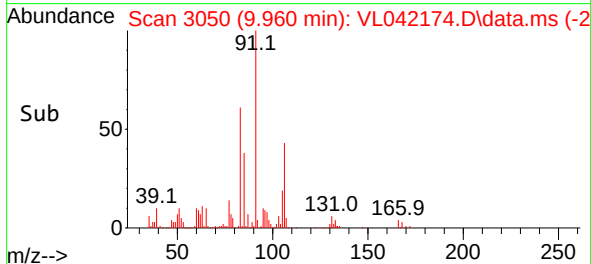
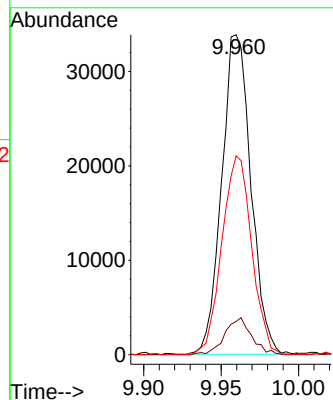
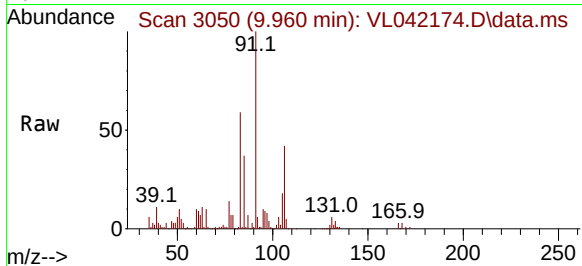




#63
 1,1,2,2-Tetrachloroethane
 Concen: 1.029 ppbv
 RT: 9.960 min Scan# 3050
 Delta R.T. 0.000 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

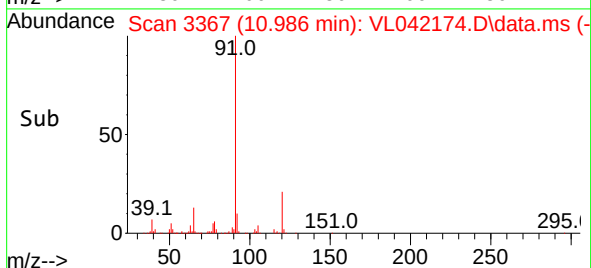
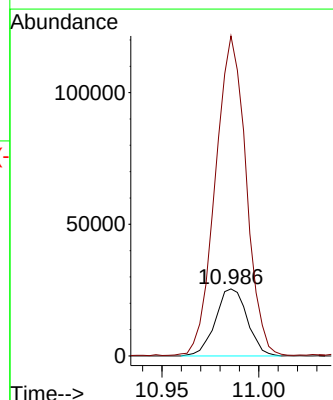
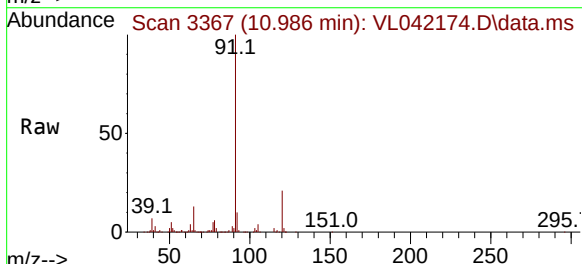
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

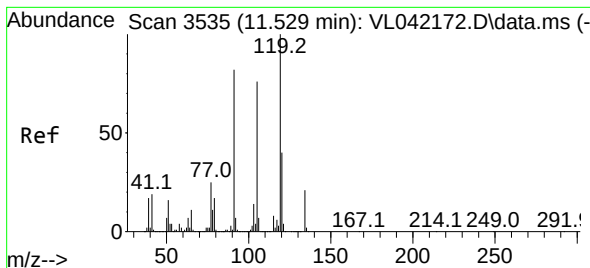
Tgt Ion: 83 Resp: 44431
 Ion Ratio Lower Upper
 83 100
 131 10.6 4.8 14.4
 85 64.0 32.5 97.5



#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

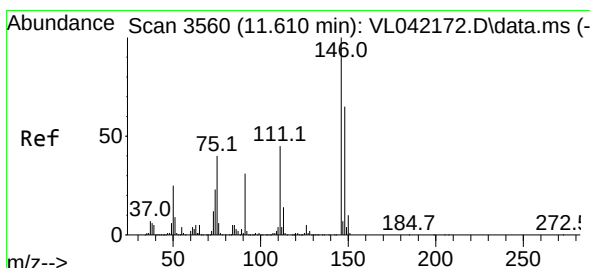
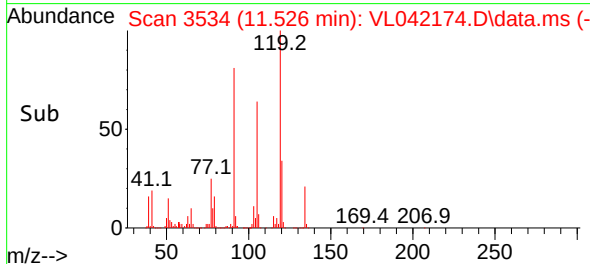
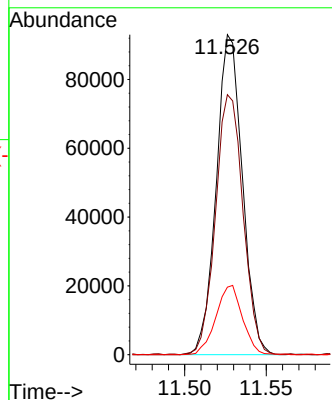
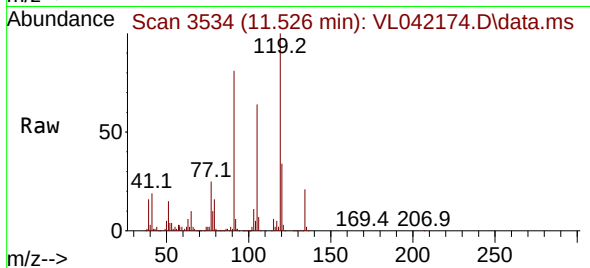
Tgt Ion:119 Resp: 103520

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

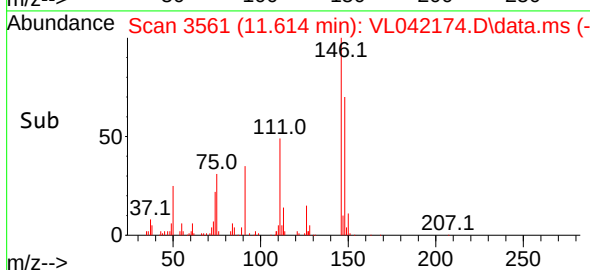
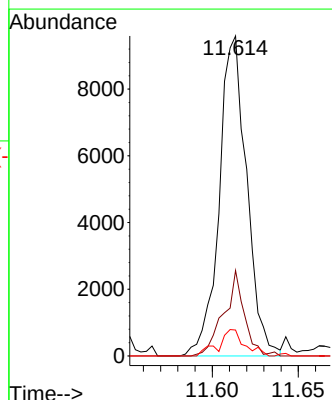
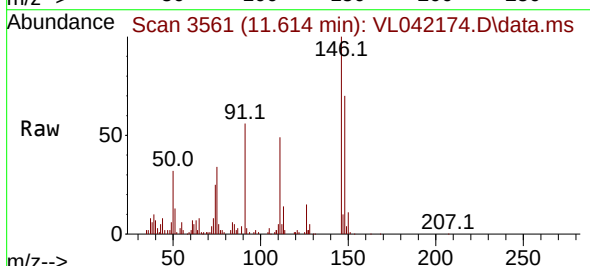
Tgt Ion: 91 Resp: 10660

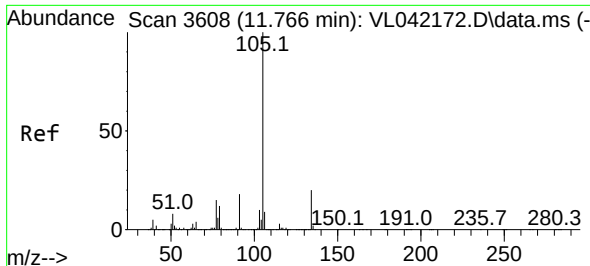
Ion Ratio Lower Upper

91 100

126 20.0 13.8 20.6

128 8.0 4.5 6.7#

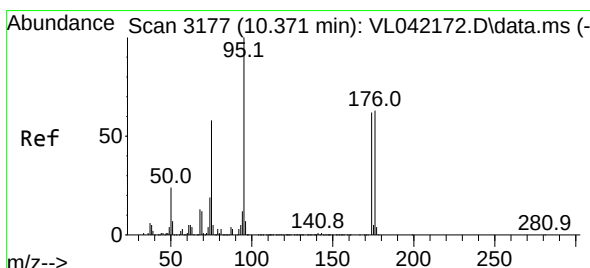
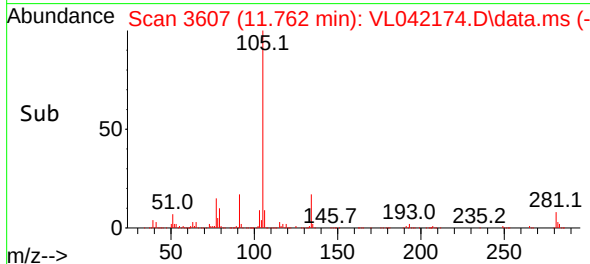
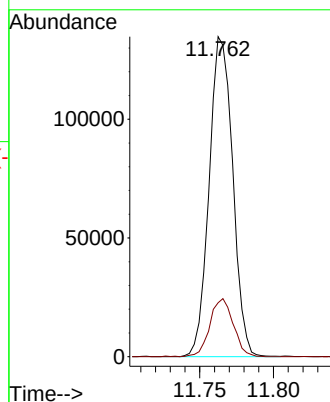
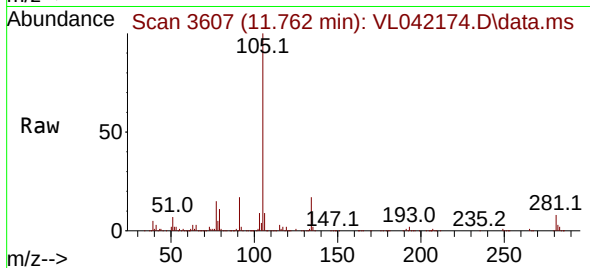




#67
 sec-Butylbenzene
 Concen: 1.095 ppbv
 RT: 11.762 min Scan# 3607
 Delta R.T. -0.003 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

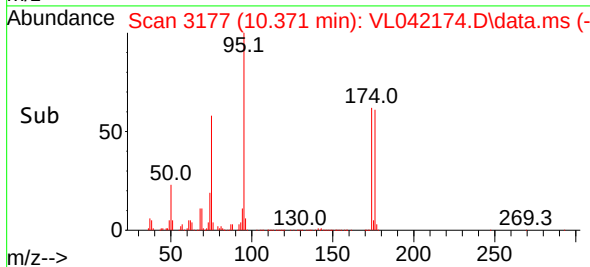
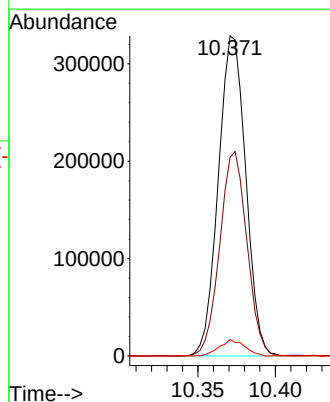
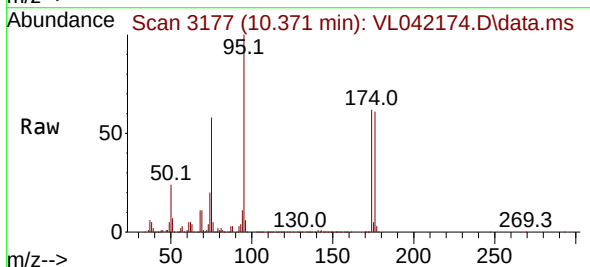
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

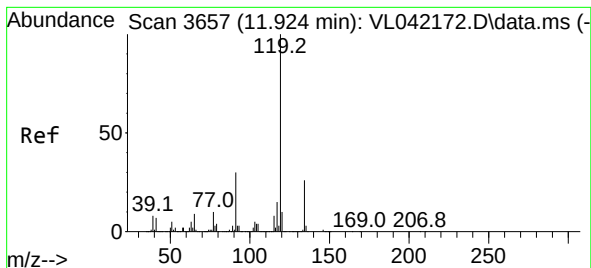
Tgt Ion:105 Resp: 149660
 Ion Ratio Lower Upper
 105 100
 134 18.1 15.5 23.3



#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

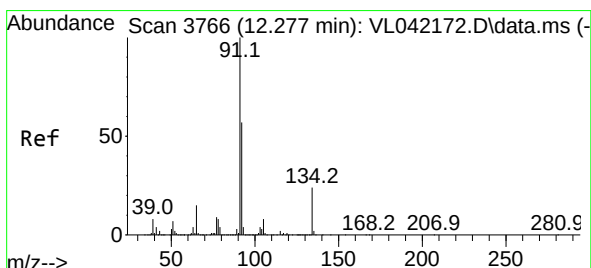
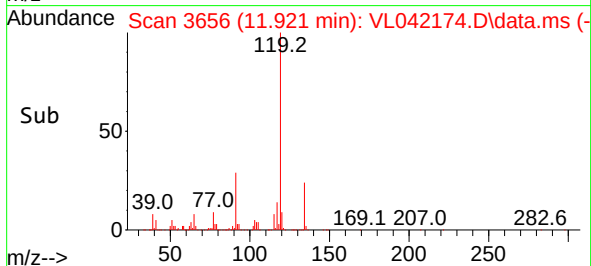
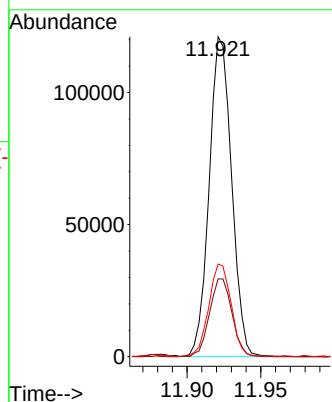
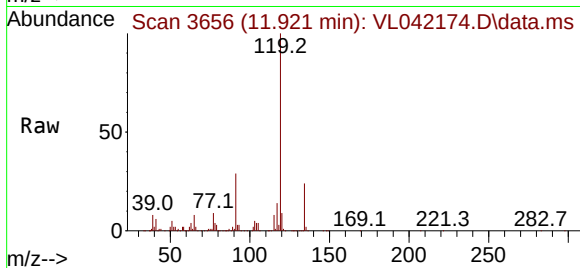
Tgt Ion:119 Resp: 127509

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

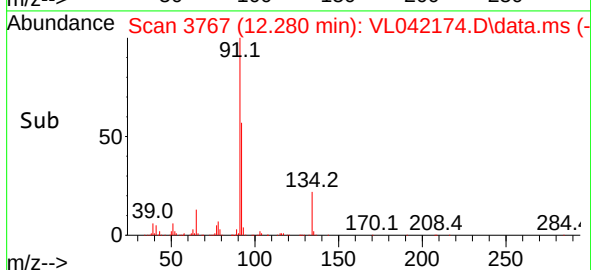
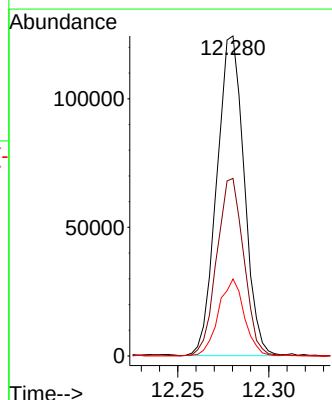
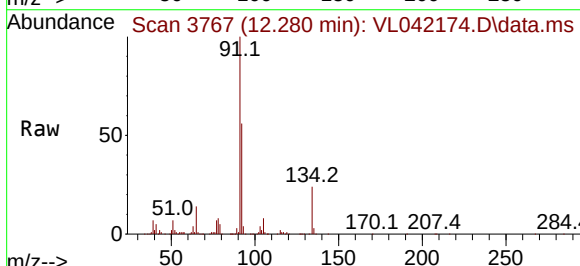
Tgt Ion: 91 Resp: 129860

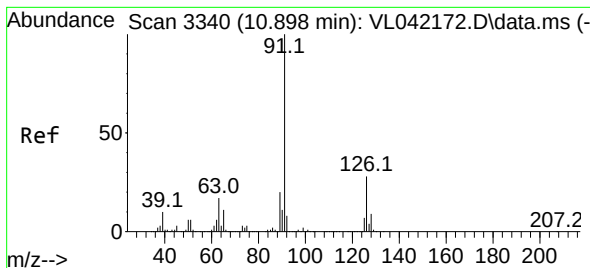
Ion Ratio Lower Upper

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 :

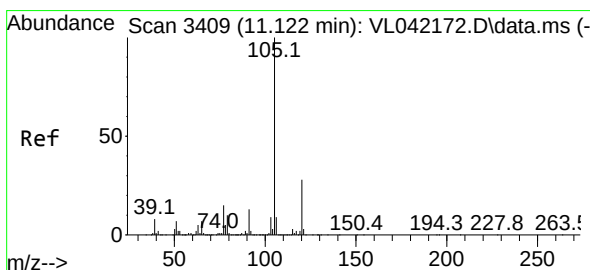
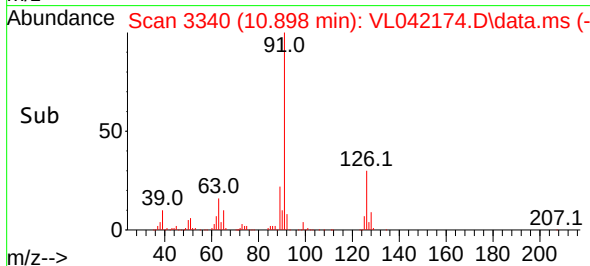
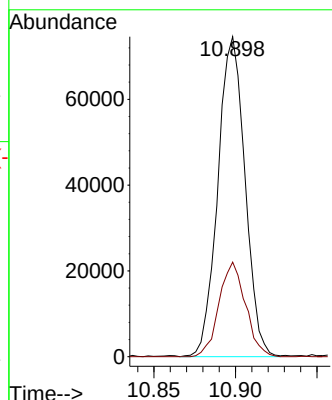
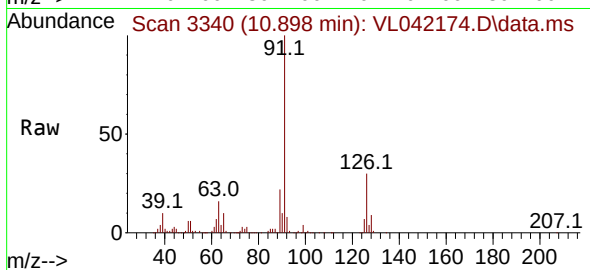
VSTDIC001

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

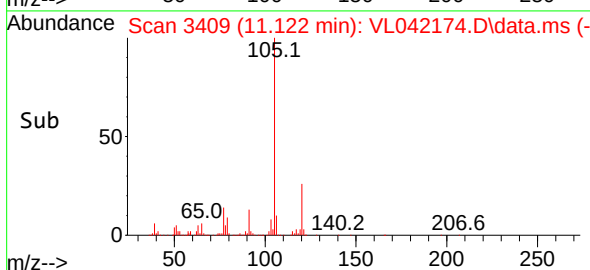
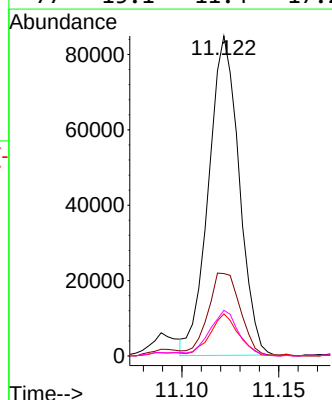
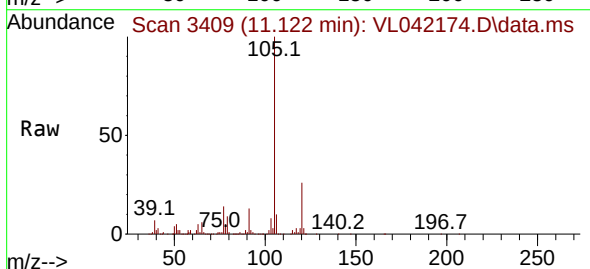
Ion Ratio Lower Upper

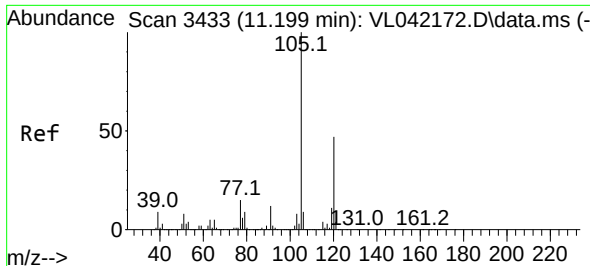
105 100

120 29.7 23.4 35.0

91 13.5 10.3 15.5

77 15.1 11.4 17.2

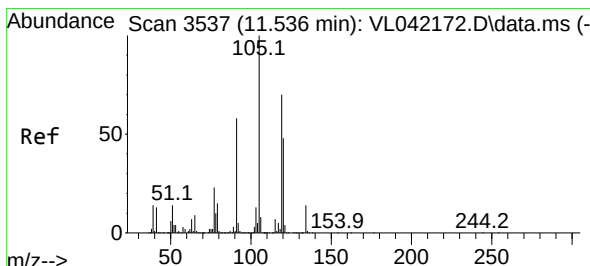
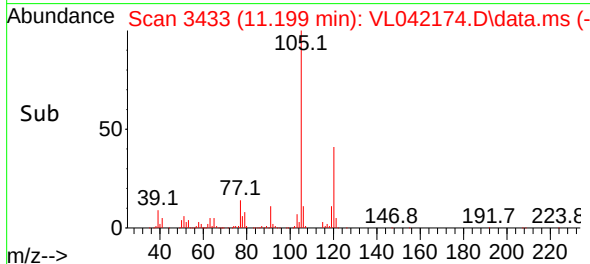
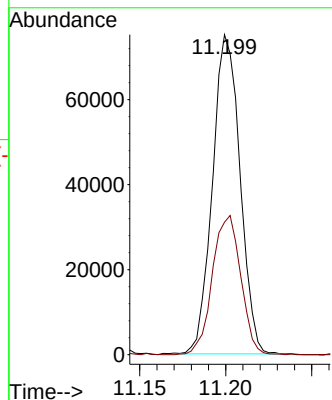
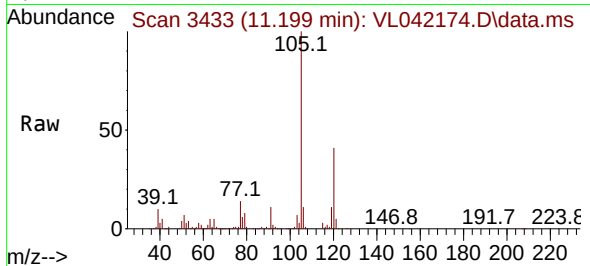




#73
 1,3,5-Trimethylbenzene
 Concen: 1.080 ppbv
 RT: 11.199 min Scan# 3433
 Delta R.T. 0.000 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

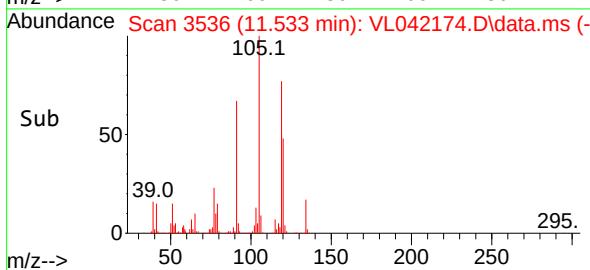
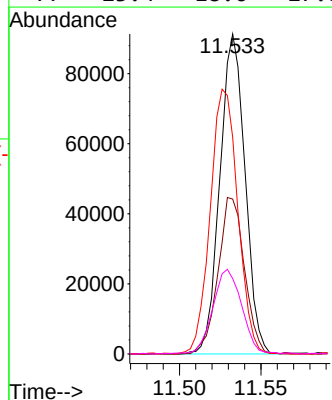
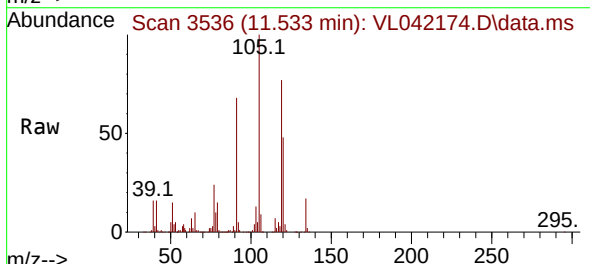
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

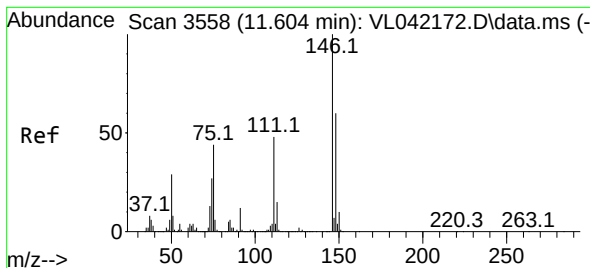
Tgt Ion:105 Resp: 83497
 Ion Ratio Lower Upper
 105 100
 120 41.3 37.4 56.0



#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

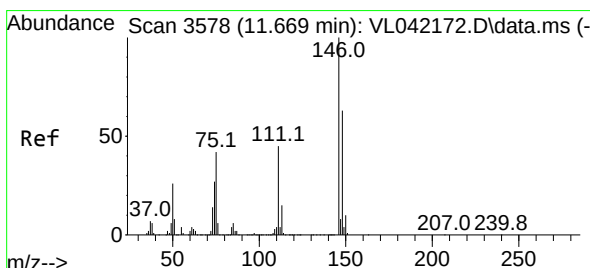
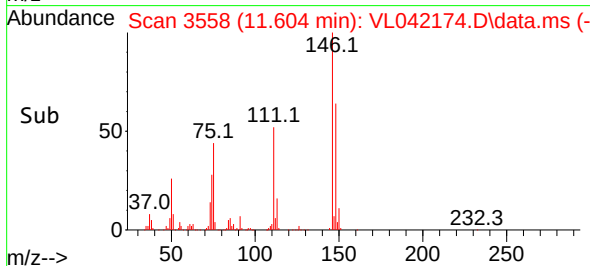
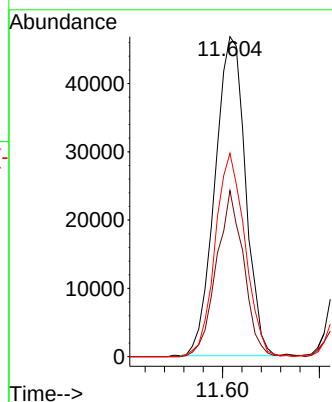
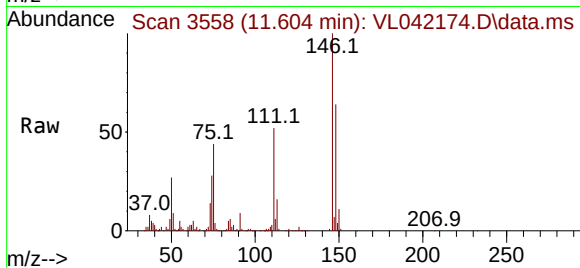
Tgt Ion:146 Resp: 51096

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

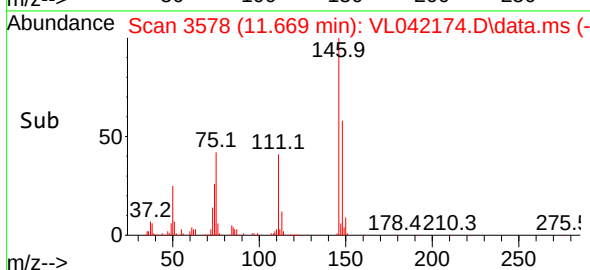
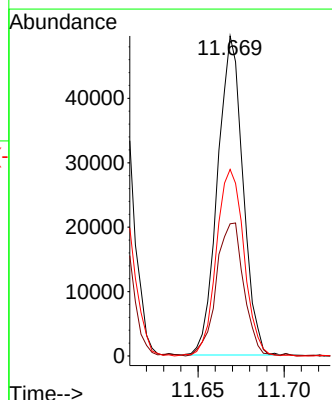
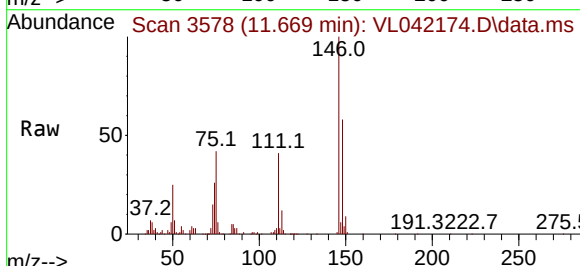
Tgt Ion:146 Resp: 50841

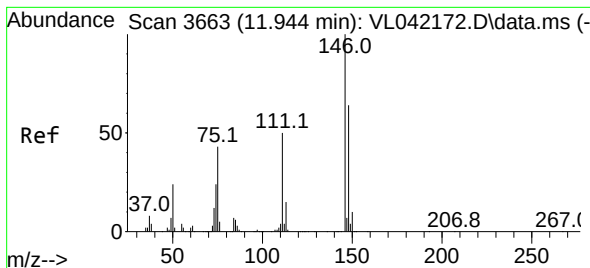
Ion Ratio Lower Upper

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

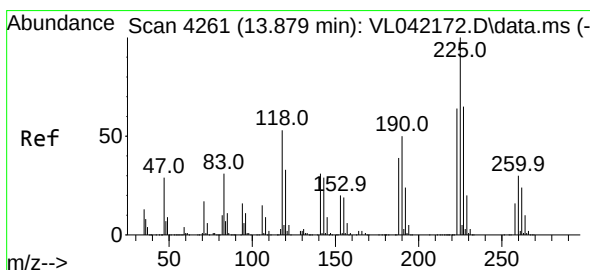
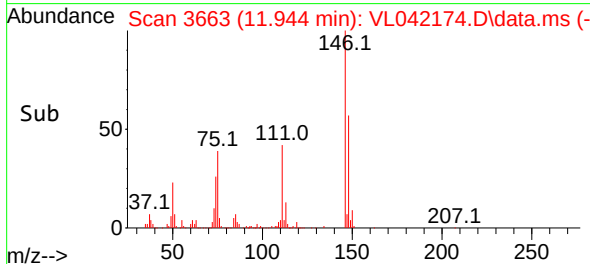
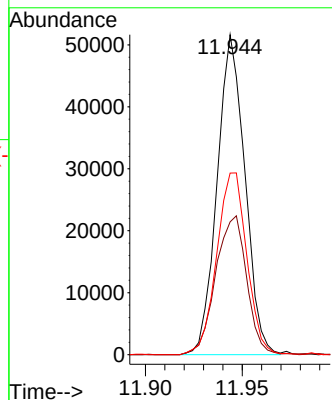
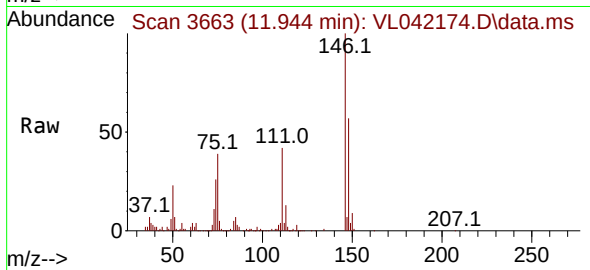
Tgt Ion:146 Resp: 51523

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

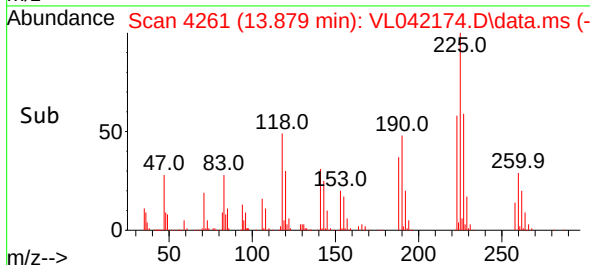
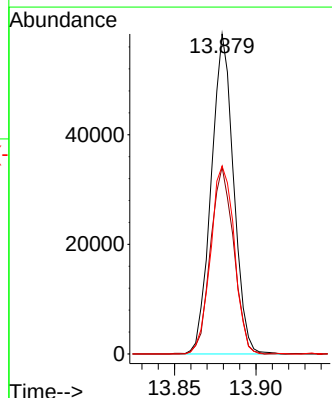
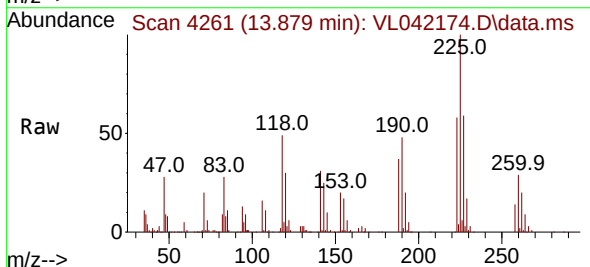
Tgt Ion:225 Resp: 55611

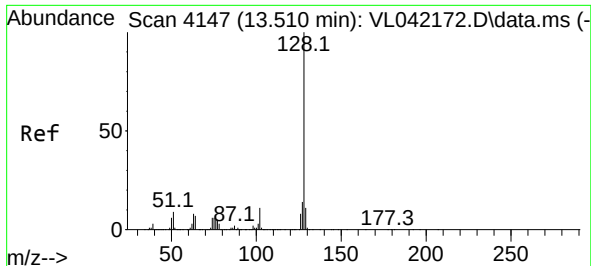
Ion Ratio Lower Upper

225 100

223 60.8 50.6 76.0

227 62.3 51.2 76.8

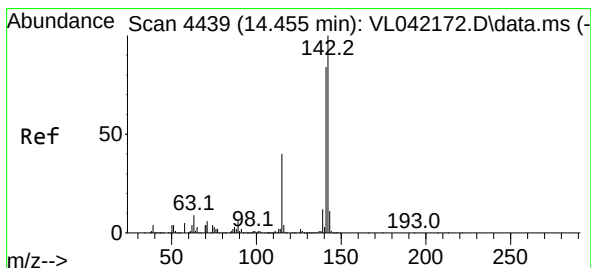
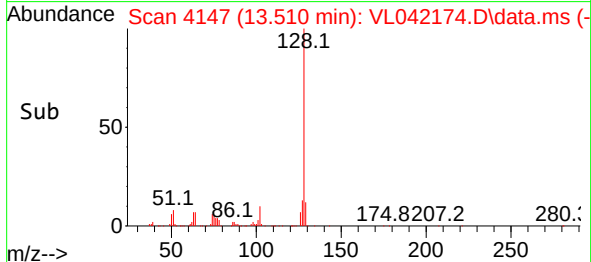
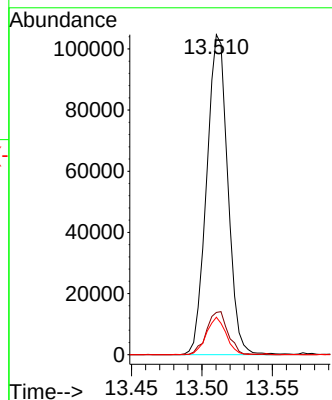
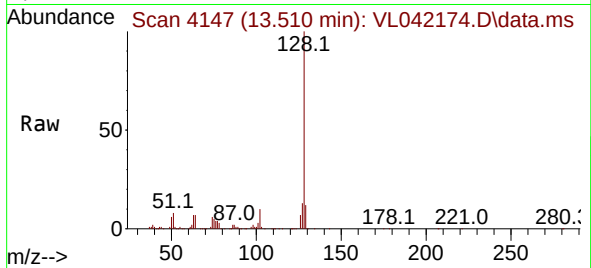




#79
Naphthalene
Concen: 1.120 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

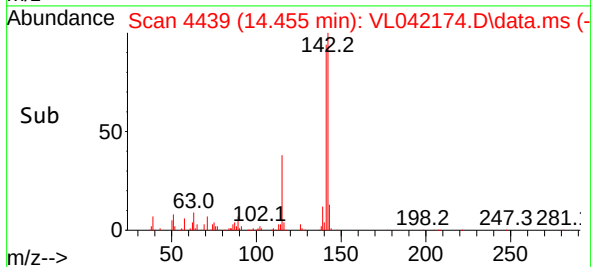
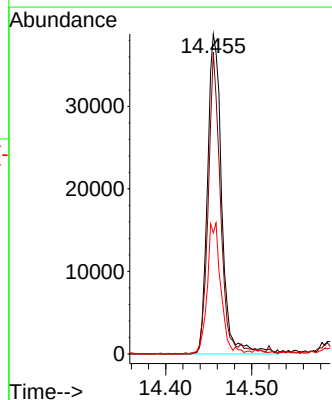
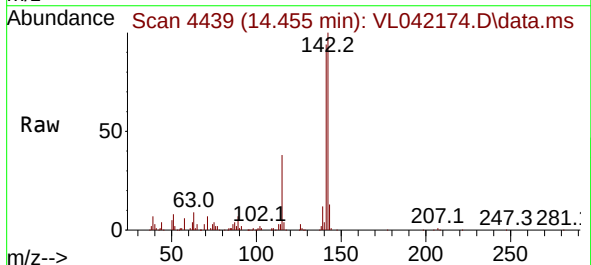
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

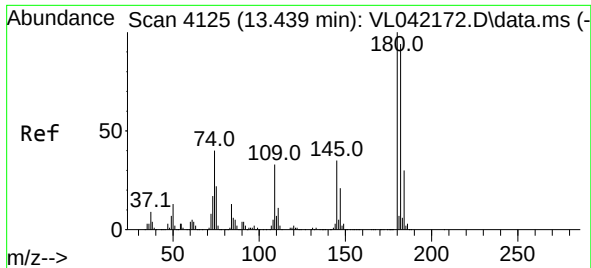
Tgt Ion:128 Resp: 109031
Ion Ratio Lower Upper
128 100
127 13.2 10.8 16.2
129 11.7 9.0 13.4



#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

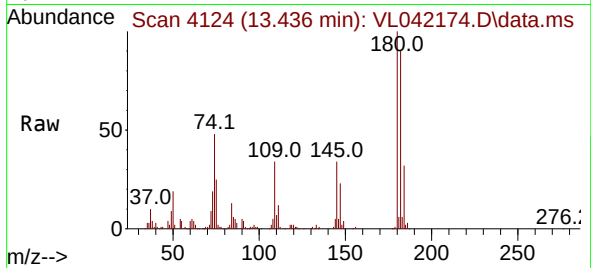
Tgt Ion:142 Resp: 44518
Ion Ratio Lower Upper
142 100
141 83.4 66.3 99.5
115 41.5 31.6 47.4



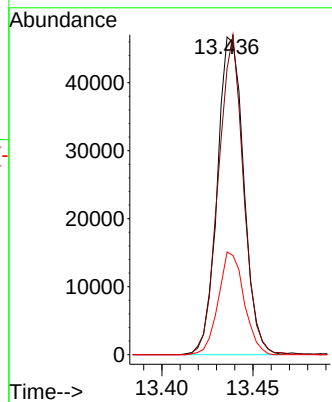
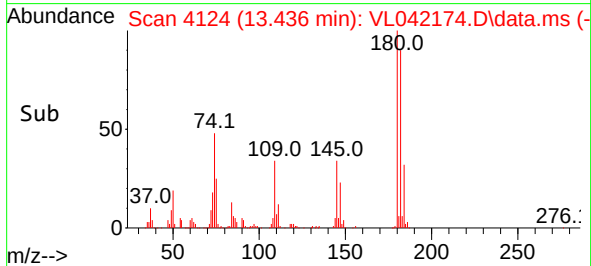


#81
 1,2,4-Trichlorobenzene
 Concen: 1.047 ppbv
 RT: 13.436 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

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
 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

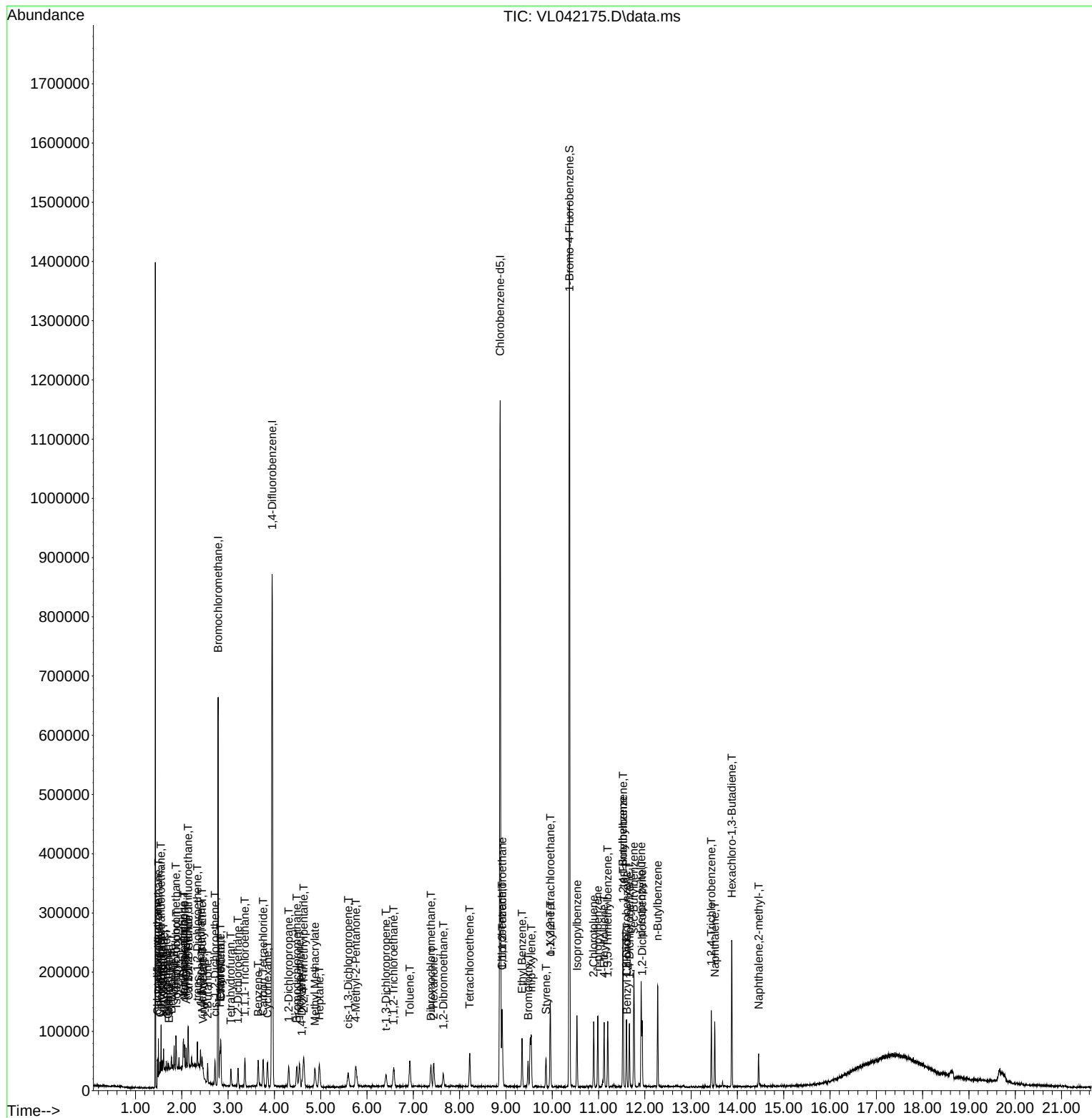
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	8584	0.297	ppbv #	91
47) 1,1,2-Trichloroethane	6.574	97	8374	0.419	ppbv	96
48) Dibromochloromethane	7.380	129	17042	0.503	ppbv	99
49) Bromoform	9.480	173	14828	0.487	ppbv	98
50) 4-Methyl-2-Pentanone	5.758	43	33674	0.559	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

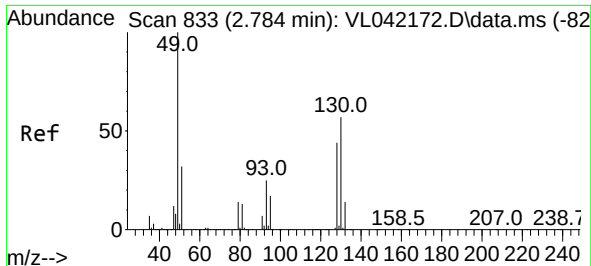
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 Acq On : 27 Mar 2025 10:01
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

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

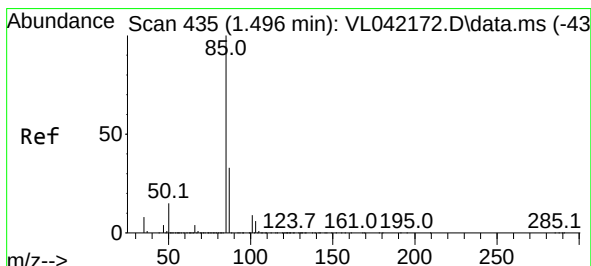
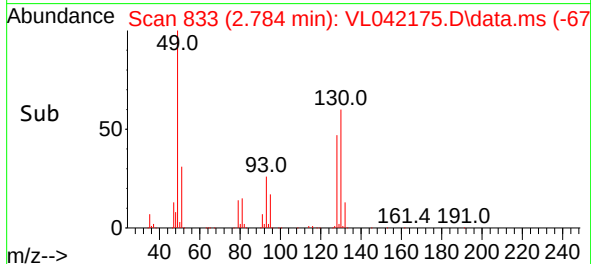
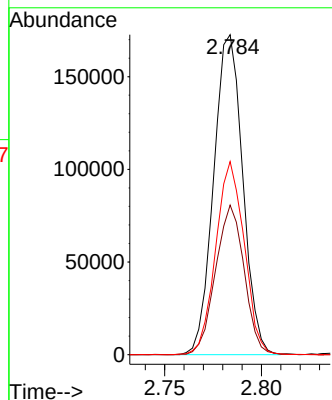
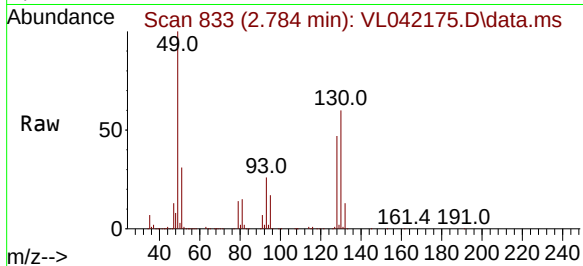




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

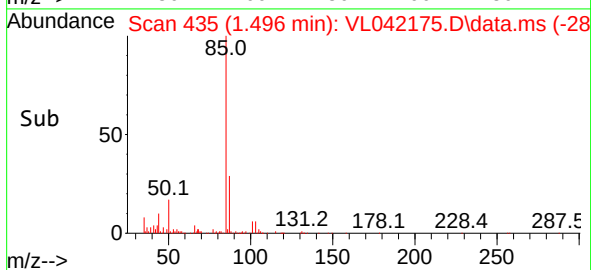
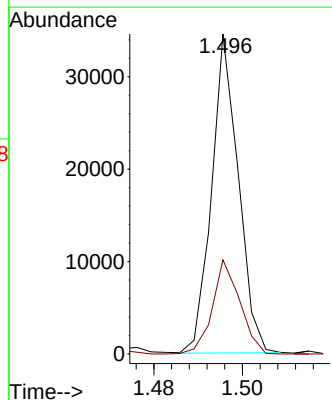
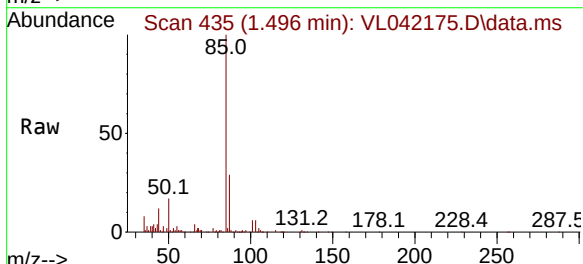
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

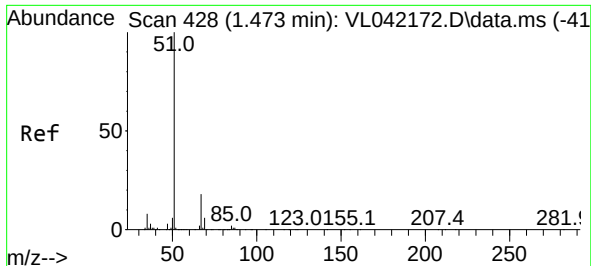
Tgt Ion: 49 Resp: 180502
Ion Ratio Lower Upper
49 100
128 46.1 22.9 68.5
130 59.2 28.8 86.4



#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

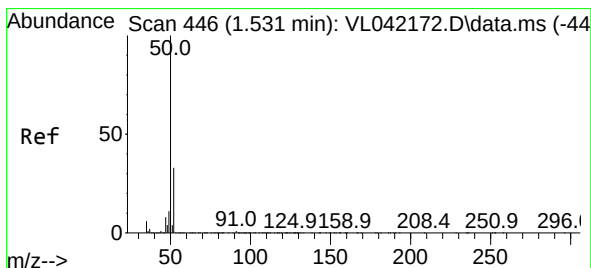
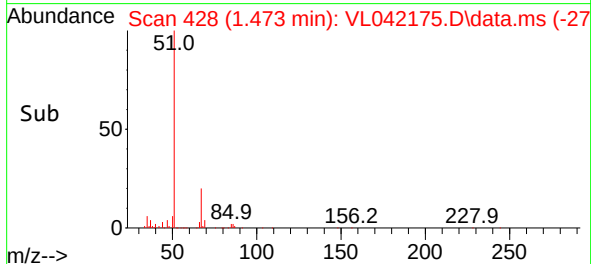
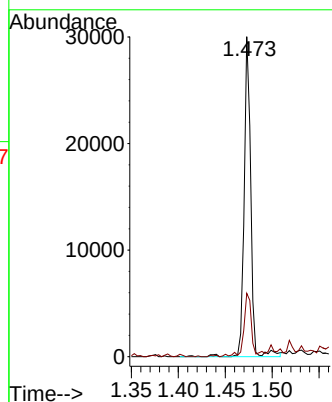
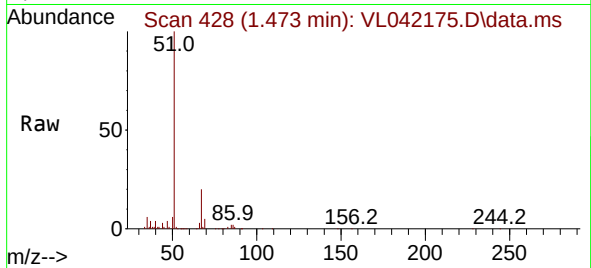




#3
Chlorodifluoromethane
Concen: 0.538 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

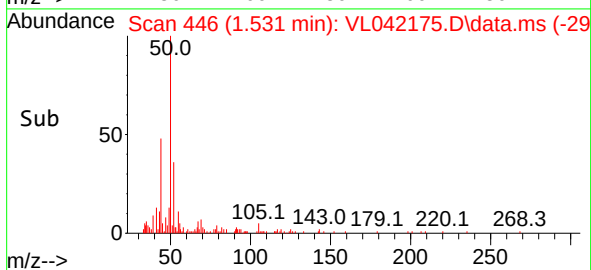
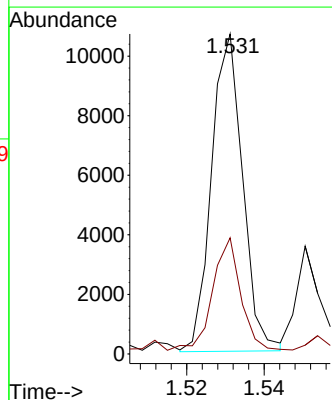
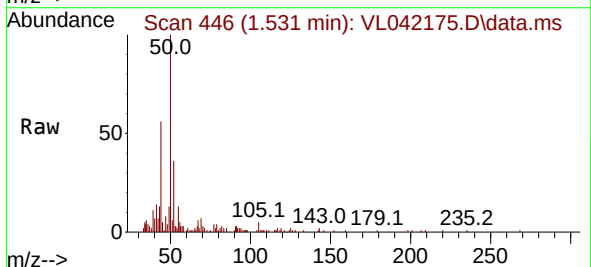
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

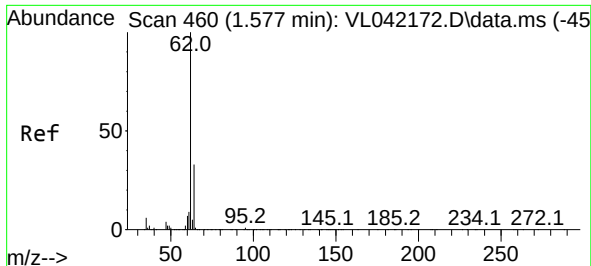
Tgt Ion: 51 Resp: 14637
Ion Ratio Lower Upper
51 100
67 23.6 15.0 22.6#



#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

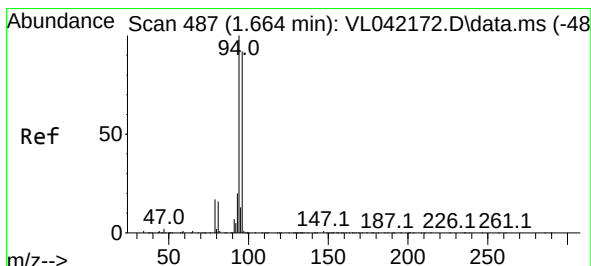
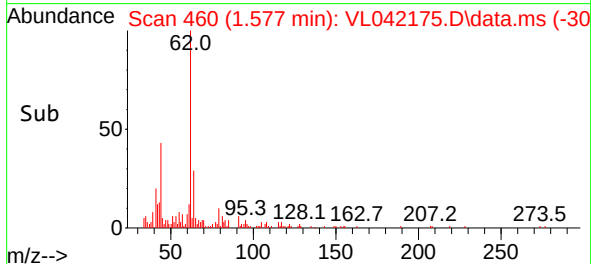
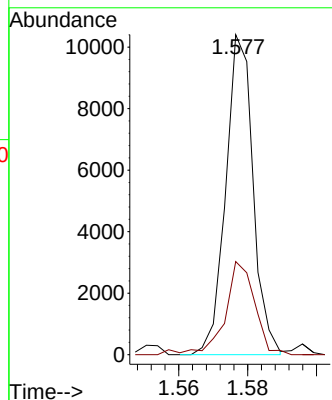
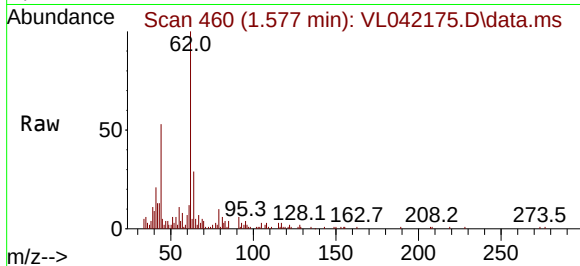




#5
 Vinyl Chloride
 Concen: 0.516 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

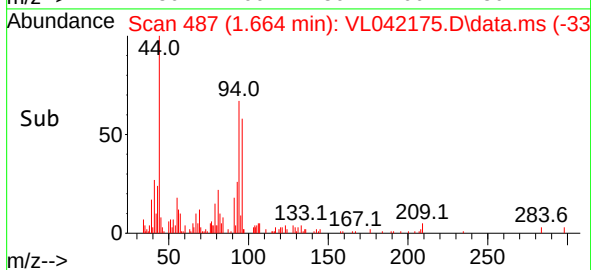
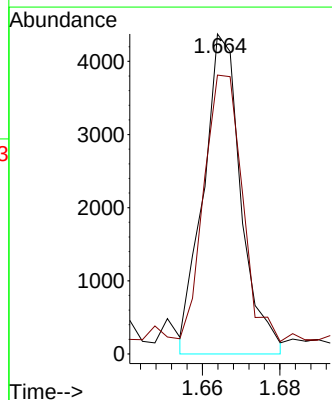
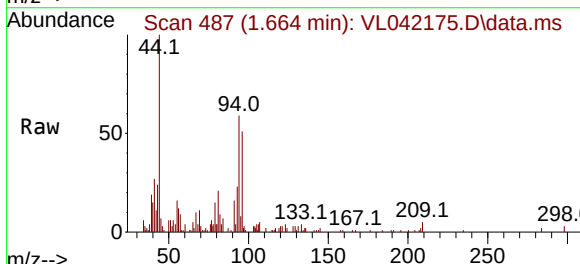
Instrument :
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 ClientSampleId :
 VSTDIC0.5

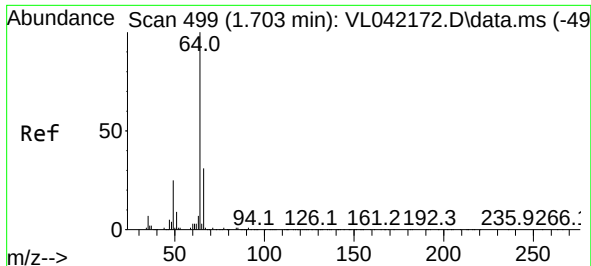
Tgt Ion: 62 Resp: 5732
 Ion Ratio Lower Upper
 62 100
 64 28.5 26.6 40.0



#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

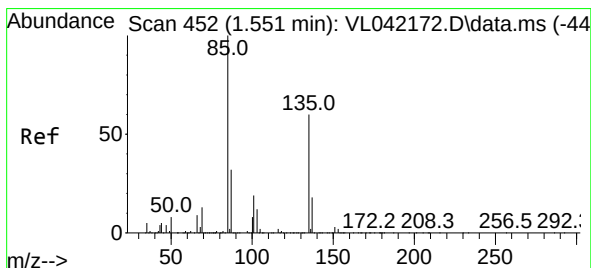
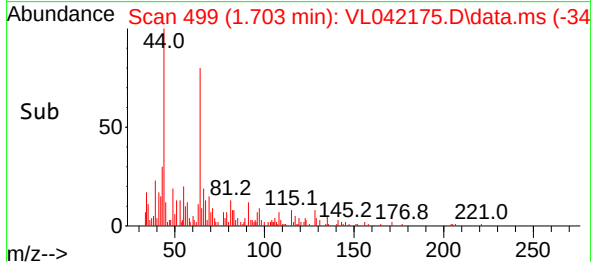
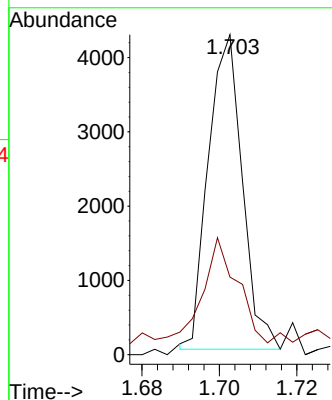
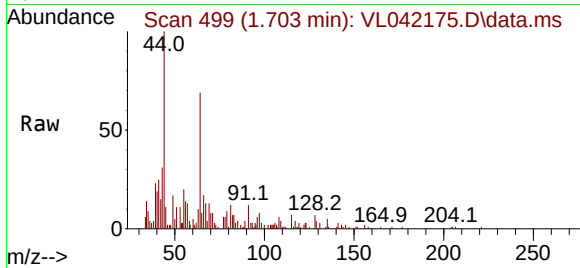




#7
Chloroethane
Concen: 0.591 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

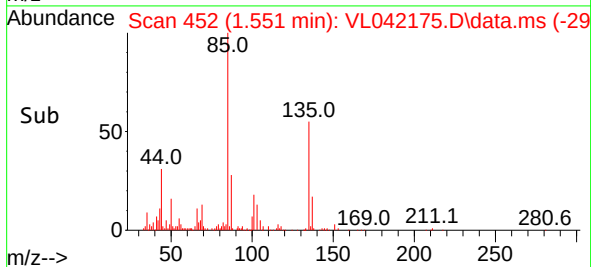
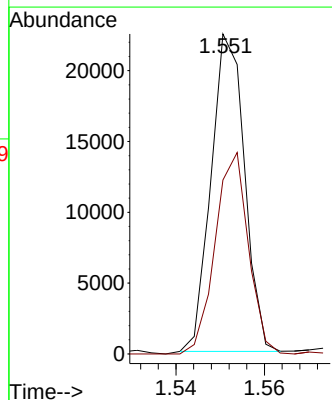
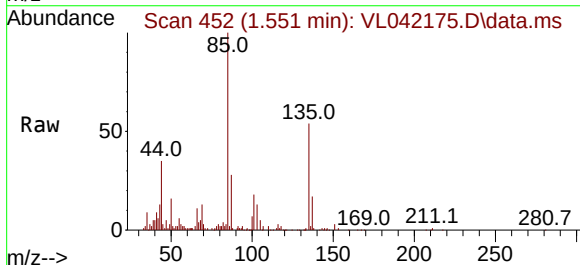
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

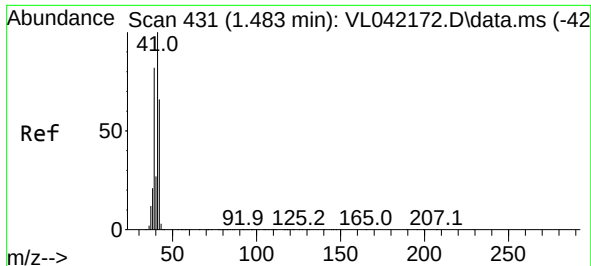
Tgt Ion: 64 Resp: 2582
Ion Ratio Lower Upper
64 100
66 24.2 25.2 37.8#



#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 :

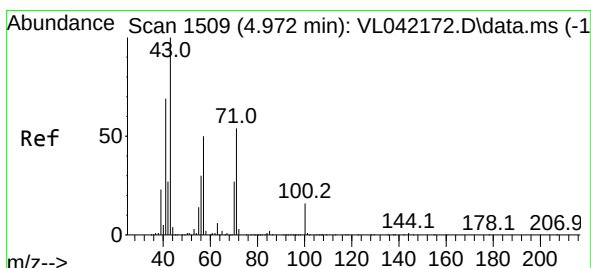
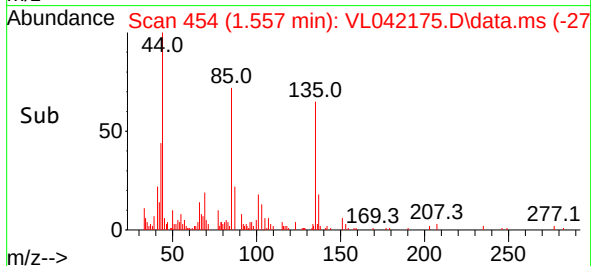
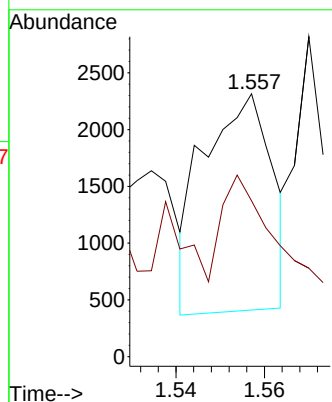
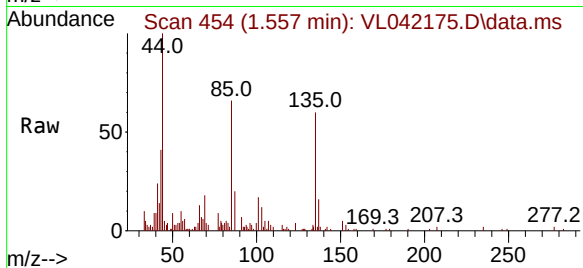
VSTDICC0.5

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

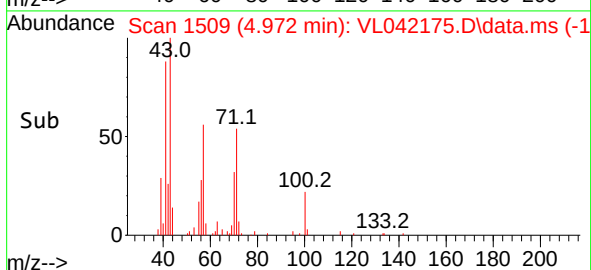
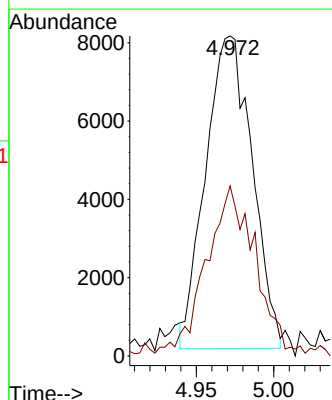
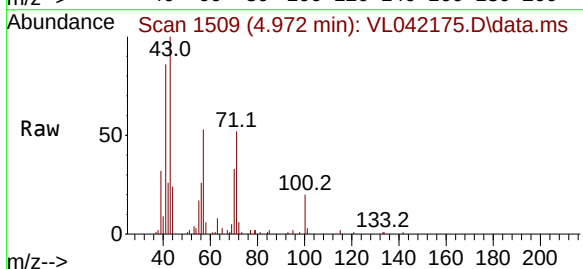
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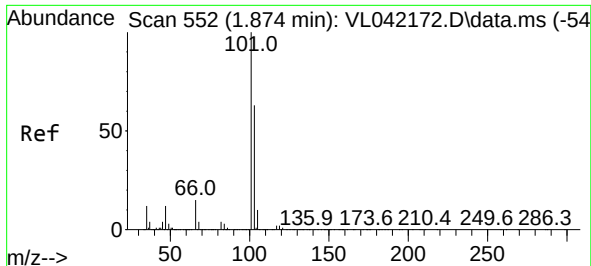
Tgt Ion: 43 Resp: 16673

Ion Ratio Lower Upper

43 100

57 57.0 39.4 59.2

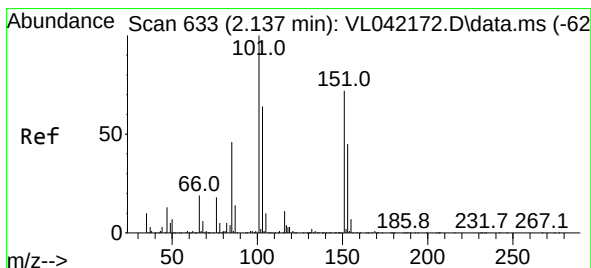
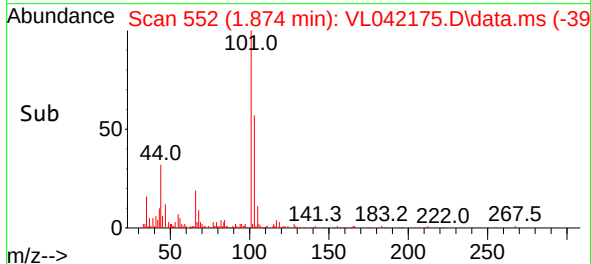
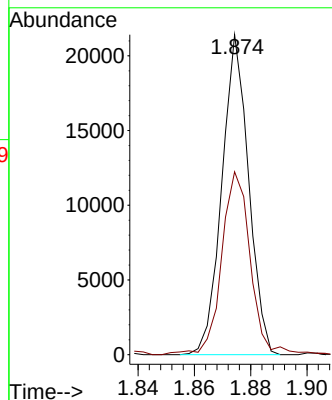
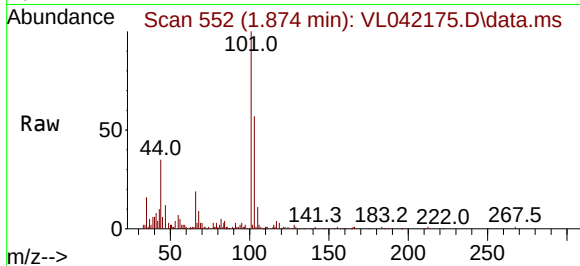




#11
 Trichlorofluoromethane
 Concen: 0.544 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

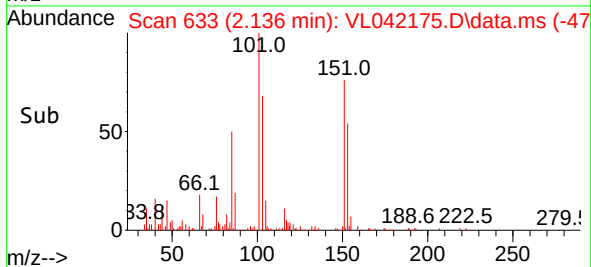
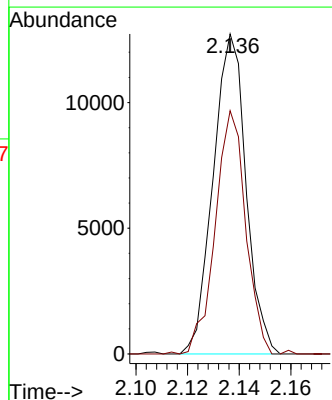
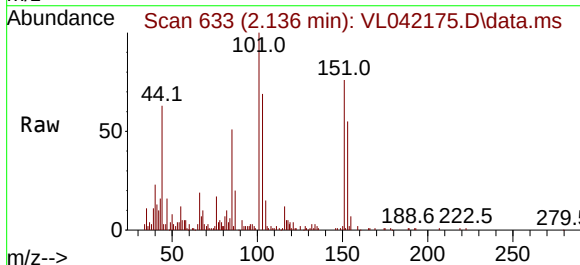
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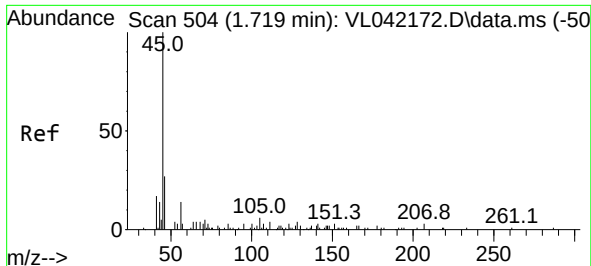
Tgt Ion:101 Resp: 14099
 Ion Ratio Lower Upper
 101 100
 103 56.3 50.2 75.2



#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

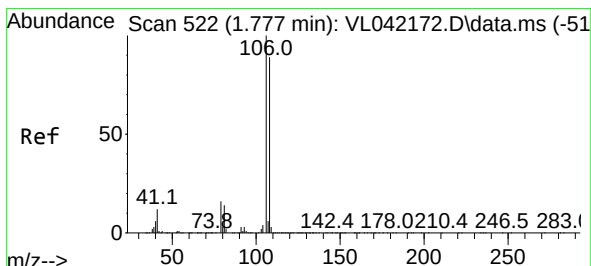
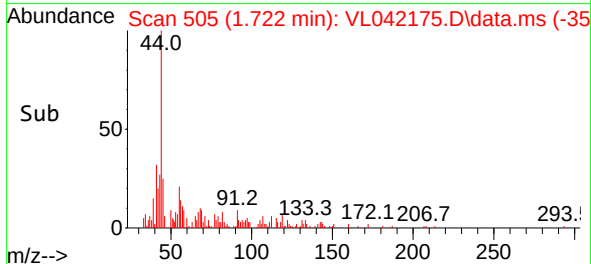
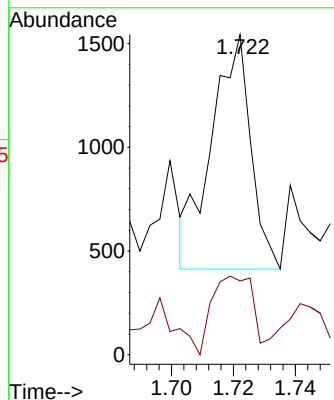
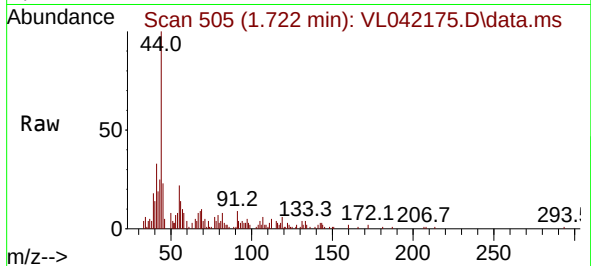




#13
Ethanol
Concen: 1.038 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

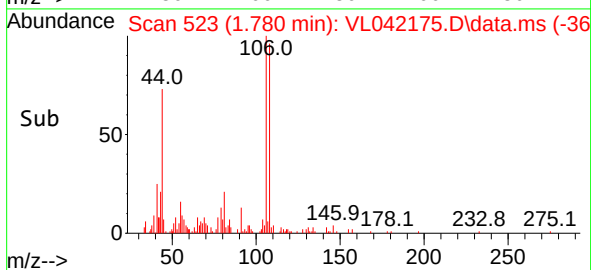
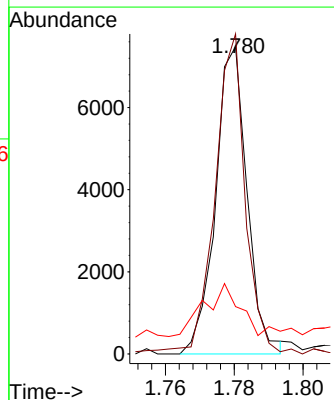
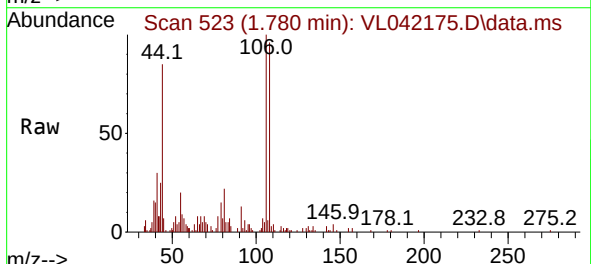
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

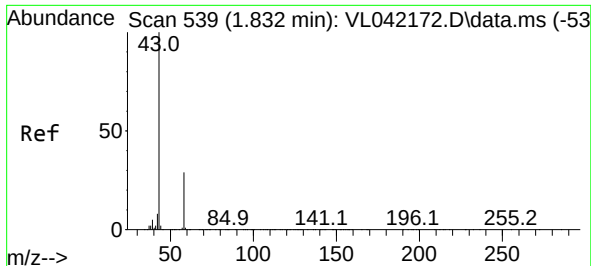
Tgt Ion: 45 Resp: 997
Ion Ratio Lower Upper
45 100
46 94.5 20.2 80.8#



#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#

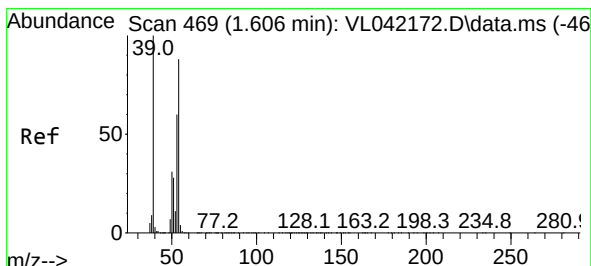
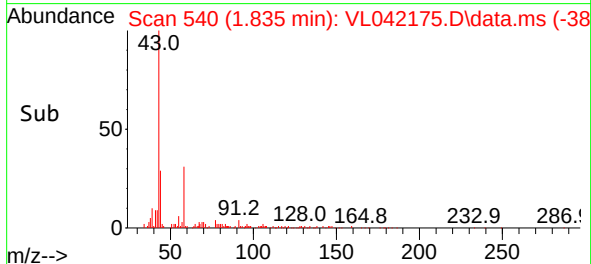
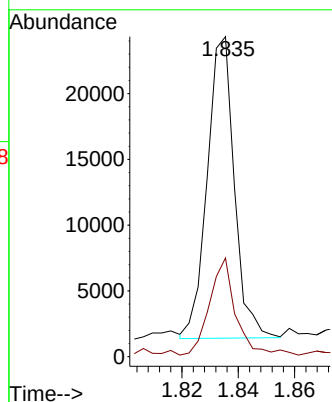
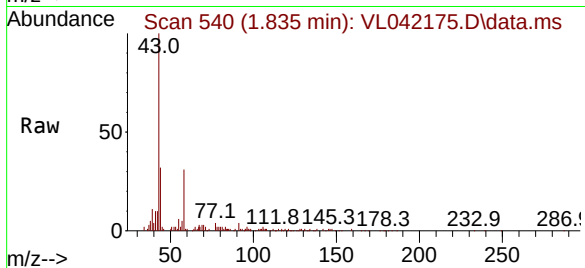




#15
Acetone
Concen: 0.607 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

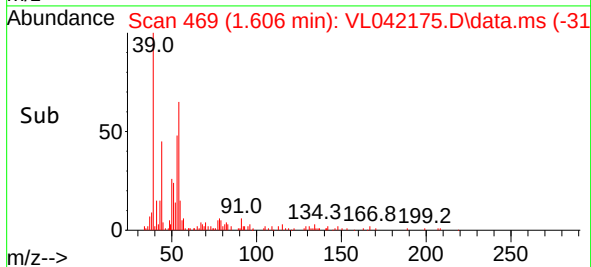
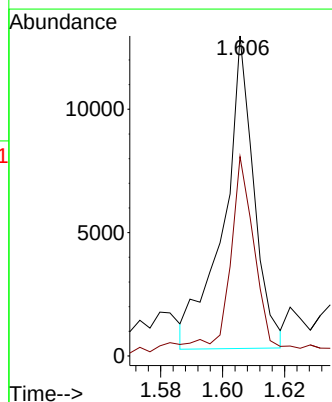
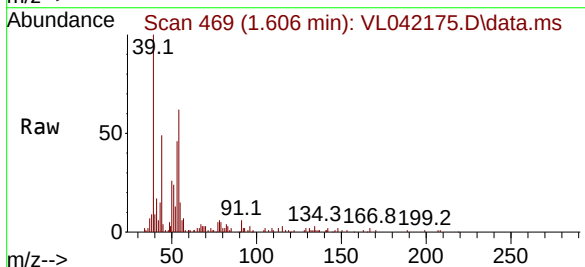
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

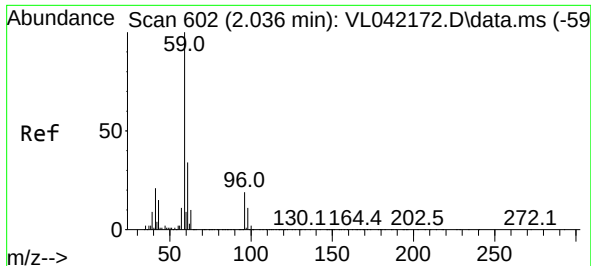
Tgt Ion: 43 Resp: 15331
Ion Ratio Lower Upper
43 100
58 37.1 23.2 34.8#



#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 :

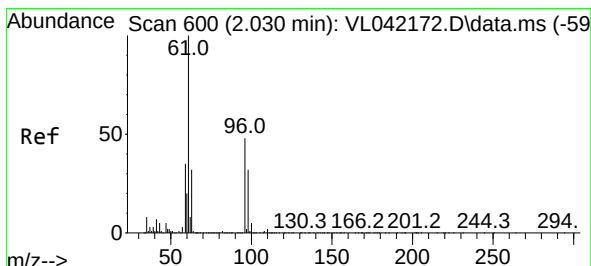
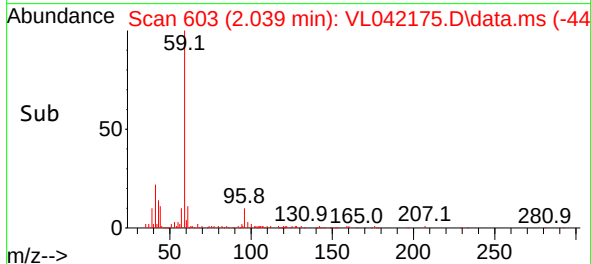
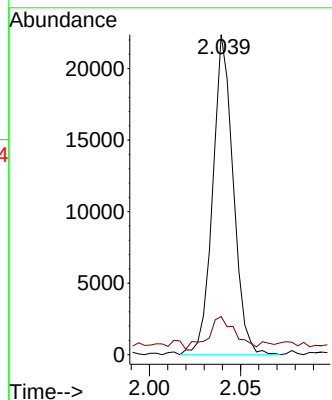
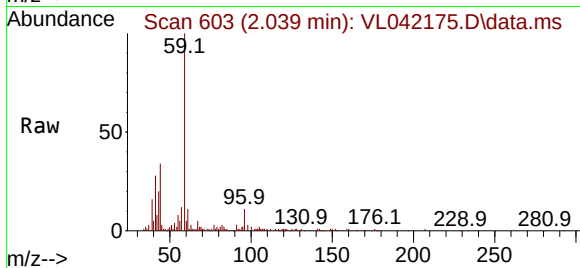
VSTDIC0.5

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

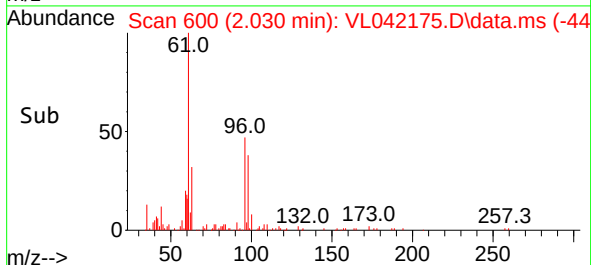
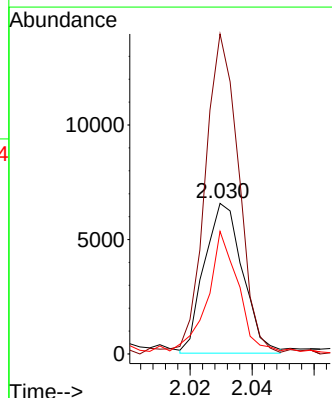
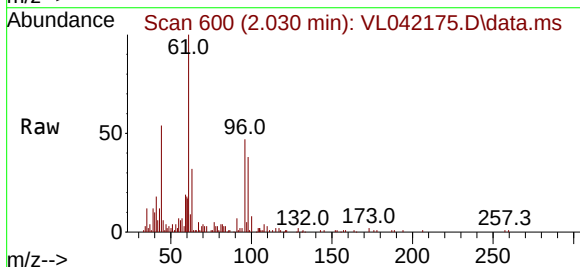
Tgt Ion: 96 Resp: 5634

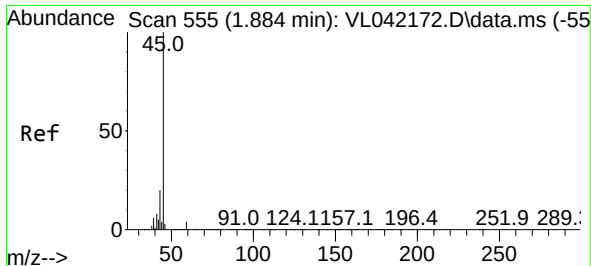
Ion Ratio Lower Upper

96 100

61 216.6 167.6 251.4

98 81.2 53.5 80.3#

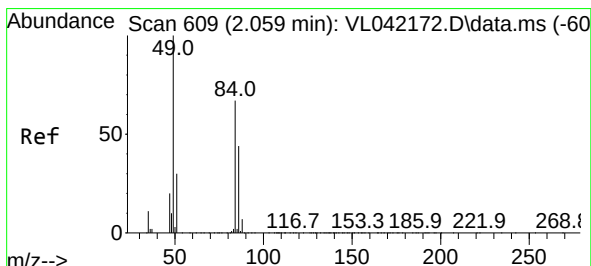
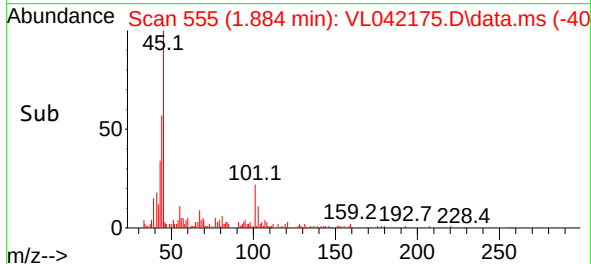
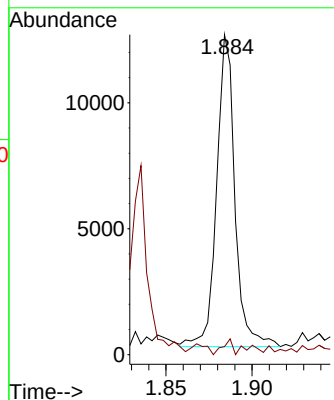
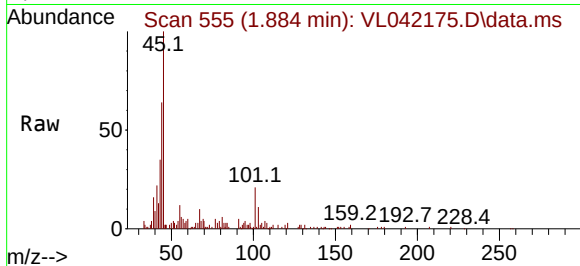




#19
Isopropyl Alcohol
Concen: 0.644 ppbv
RT: 1.884 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

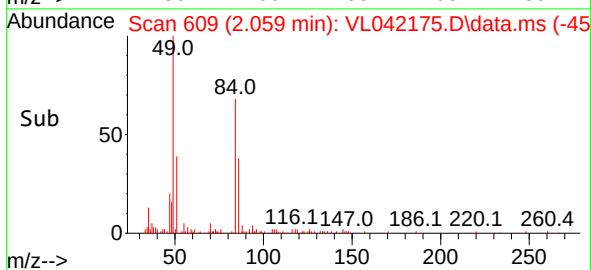
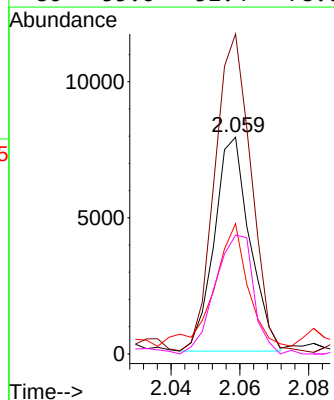
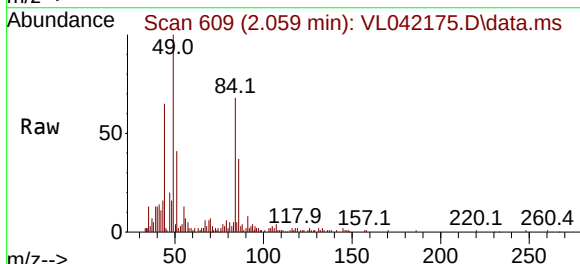
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

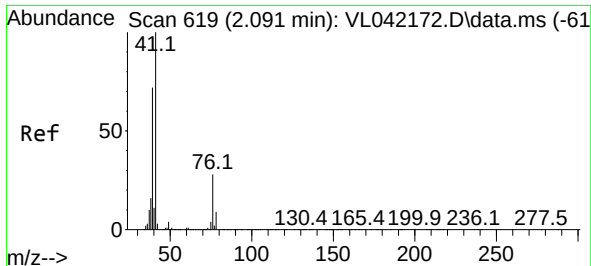
Tgt Ion: 45 Resp: 9171
Ion Ratio Lower Upper
45 100
58 5.5 36.9 55.3#



#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

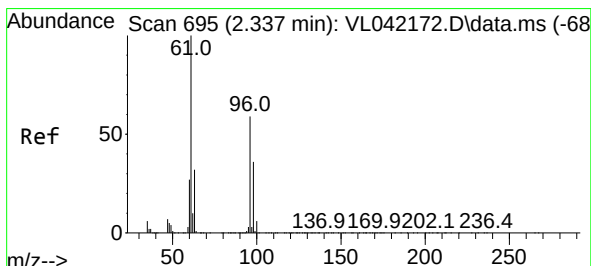
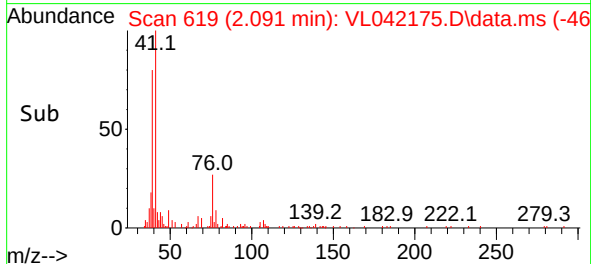
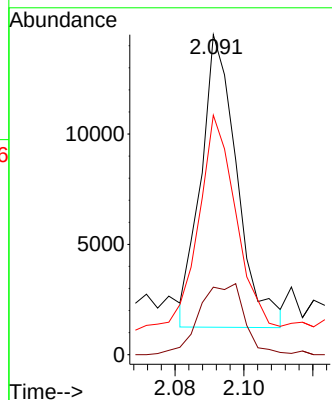
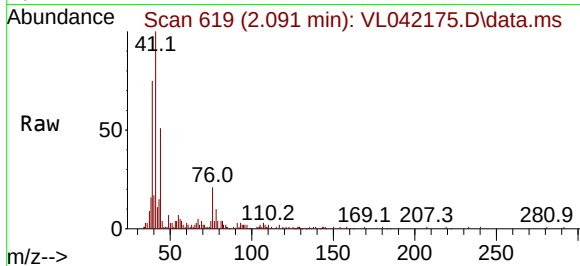




#21
 Allyl Chloride
 Concen: 0.541 ppbv
 RT: 2.091 min Scan# 619
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

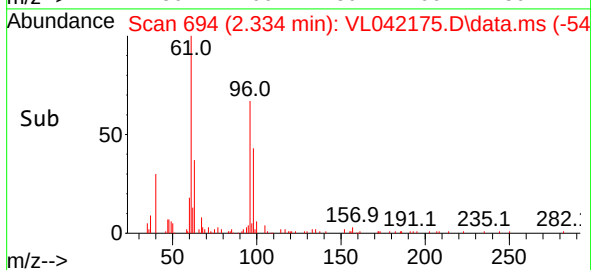
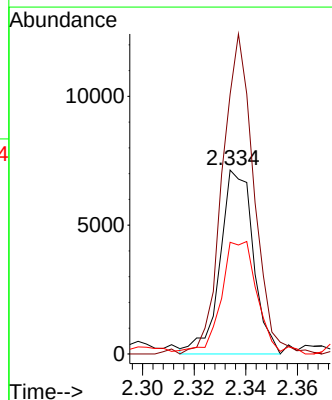
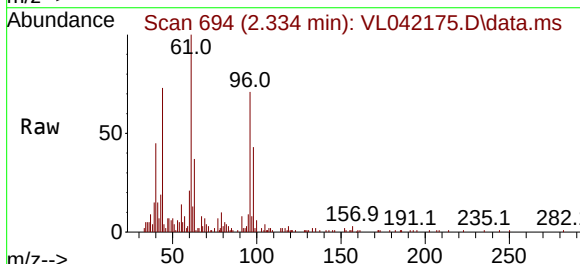
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

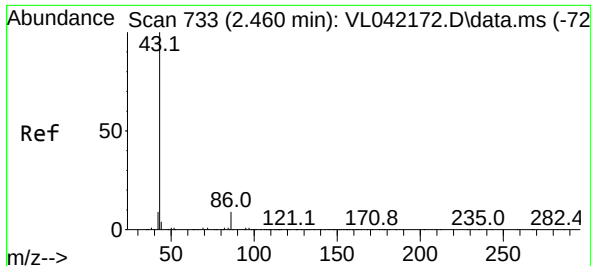
Tgt Ion: 41 Resp: 9632
 Ion Ratio Lower Upper
 41 100
 76 30.9 24.1 36.1
 39 88.9 61.1 91.7



#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

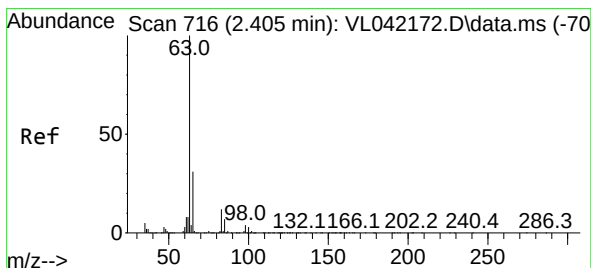
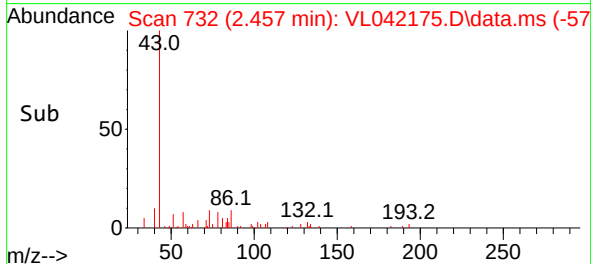
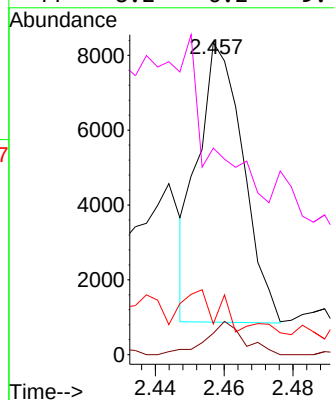
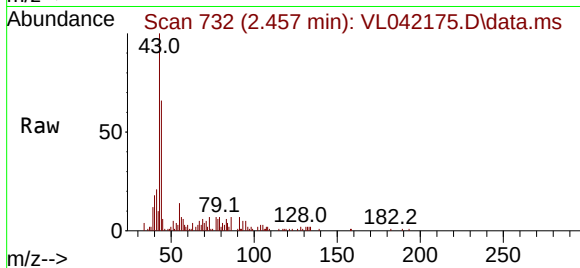
Ion Ratio Lower Upper

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

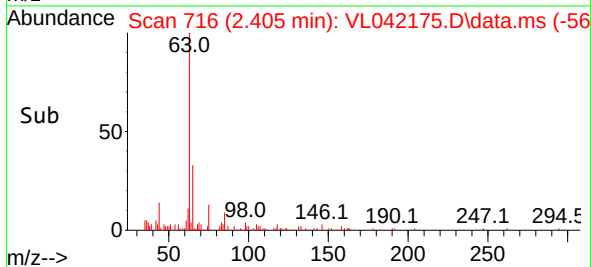
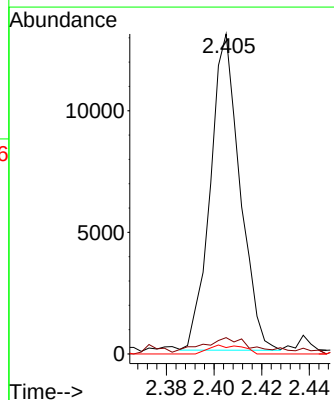
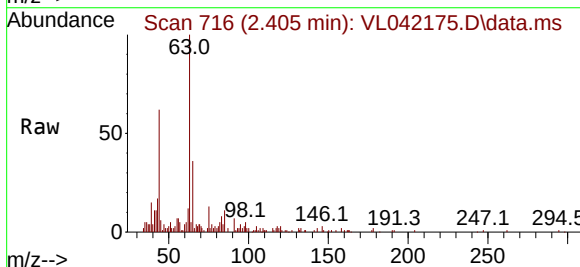
Tgt Ion: 63 Resp: 11258

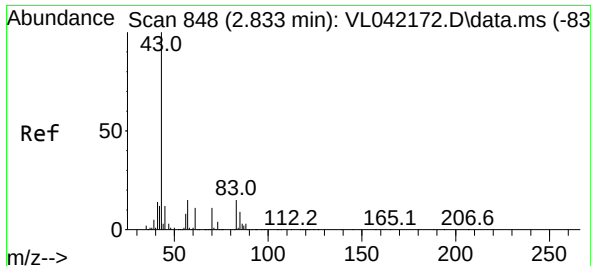
Ion Ratio Lower Upper

63 100

98 3.7 2.3 6.8

100 2.0 1.6 4.7

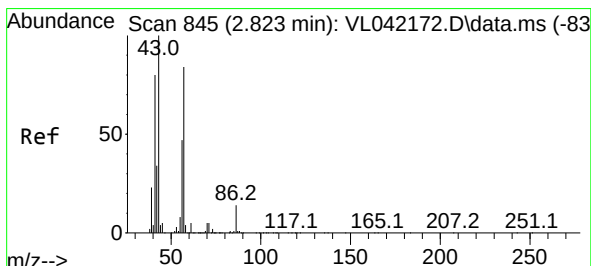
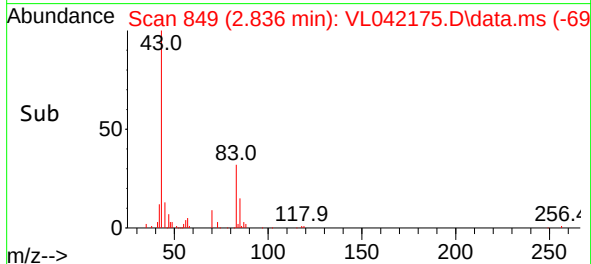
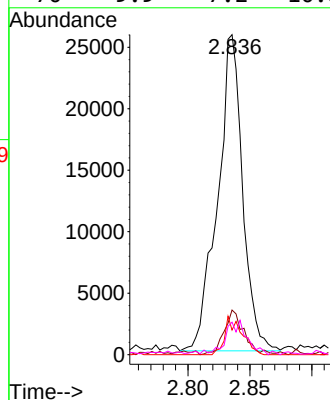
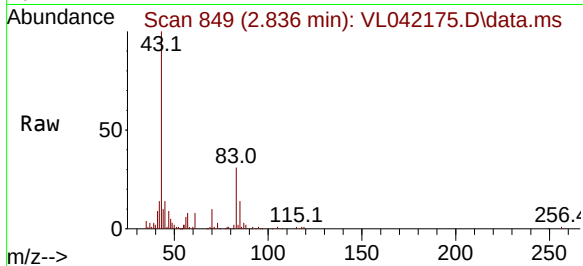




#25
Ethyl Acetate
Concen: 0.553 ppbv
RT: 2.836 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

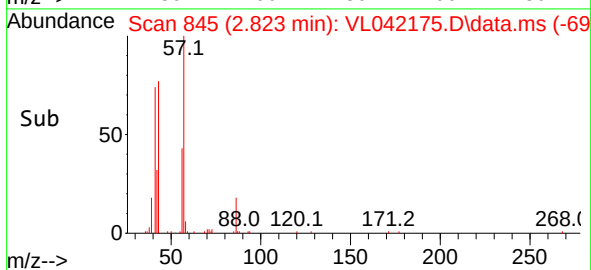
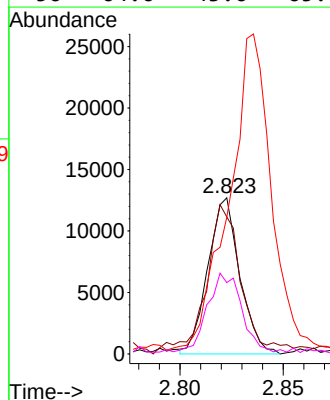
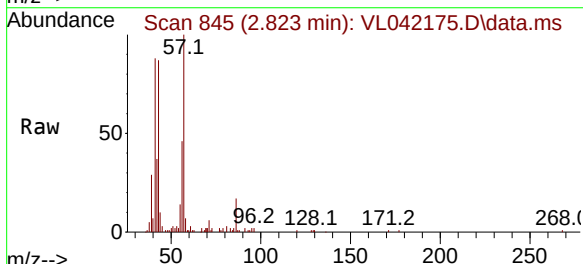
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

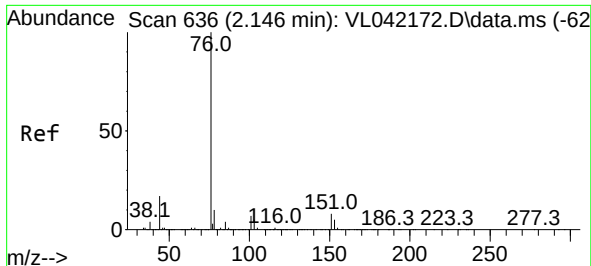
Tgt Ion: 43	Resp: 36258
Ion Ratio	Lower Upper
43 100	
45 11.2	8.2 12.2
61 8.3	7.3 10.9
70 9.9	7.2 10.8



#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

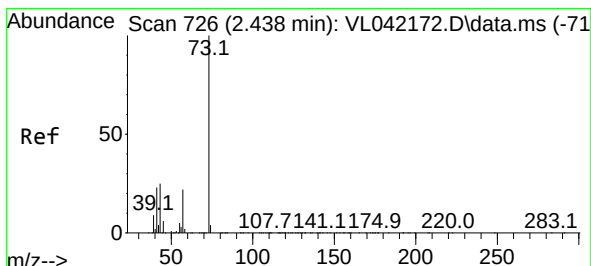
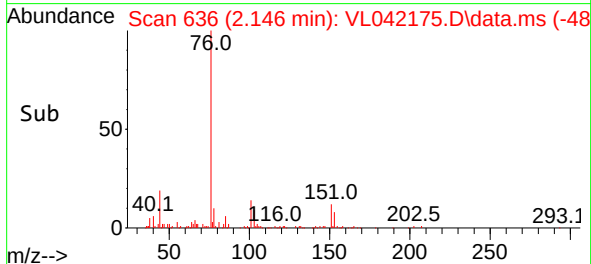
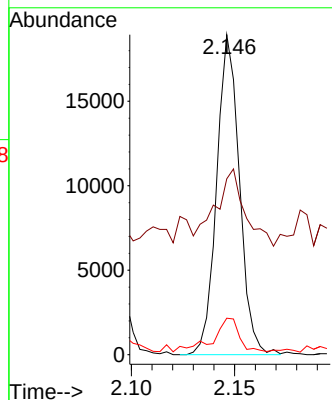
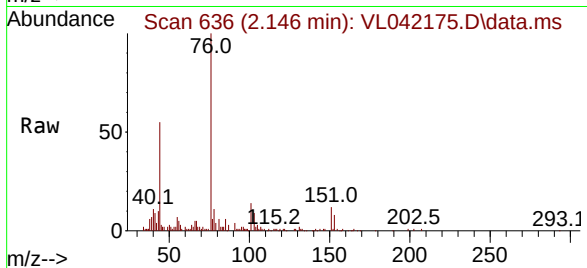




#27
Carbon Disulfide
Concen: 0.535 ppbv
RT: 2.146 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

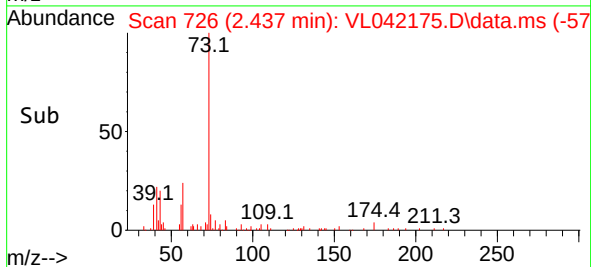
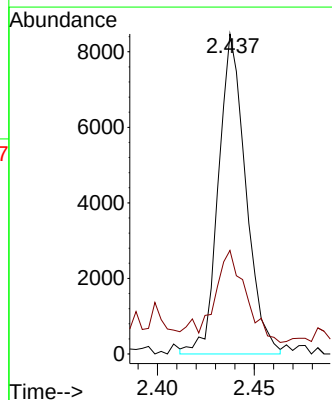
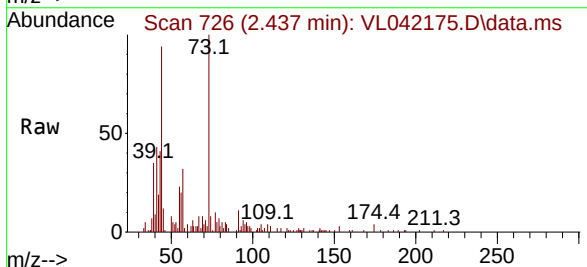
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

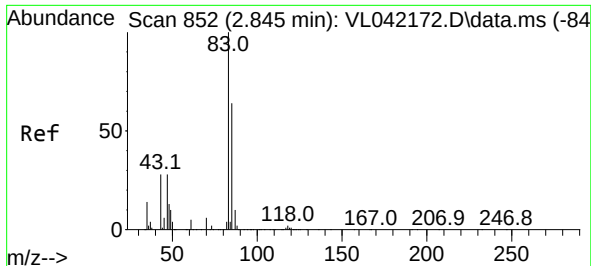
Tgt Ion: 76 Resp: 14510
Ion Ratio Lower Upper
76 100
44 115.5 14.7 22.1#
78 14.9 9.3 13.9#



#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 :

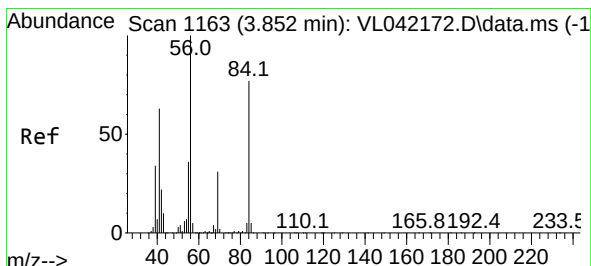
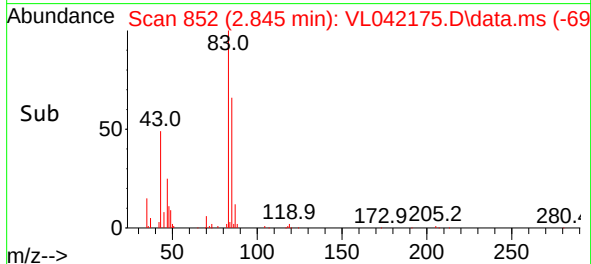
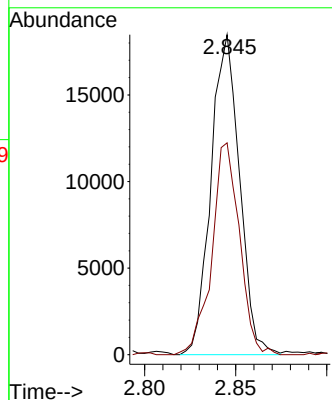
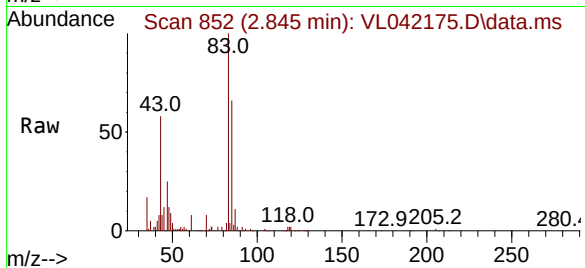
VSTDIC0.5

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

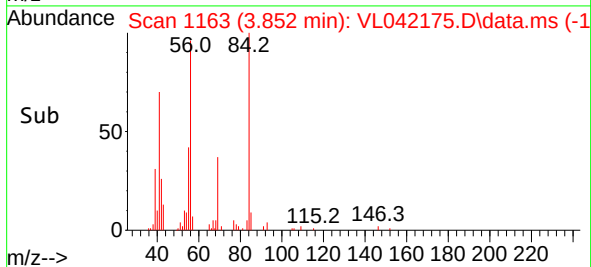
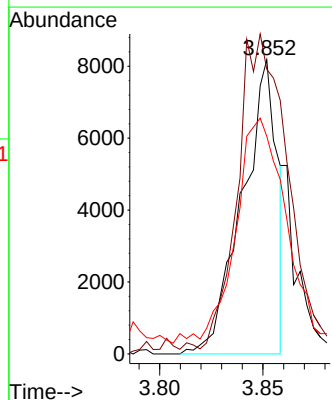
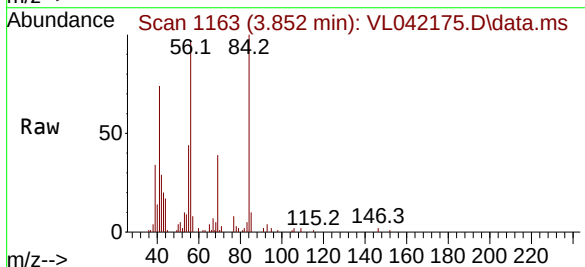
Tgt Ion: 84 Resp: 9635

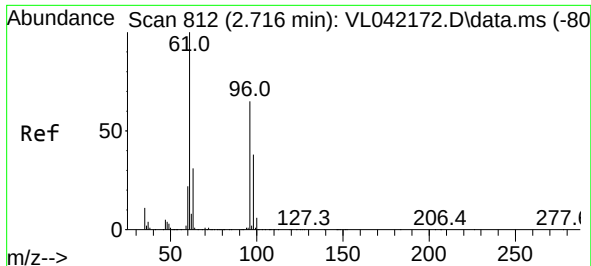
Ion Ratio Lower Upper

84 100

56 158.1 102.8 154.2#

41 117.1 66.5 99.7#

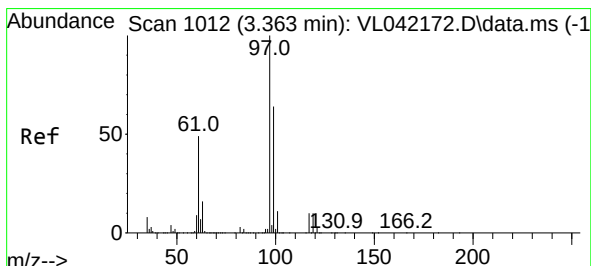
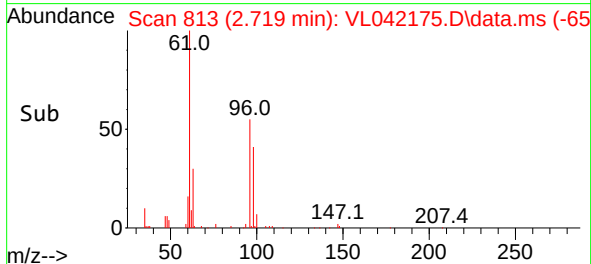
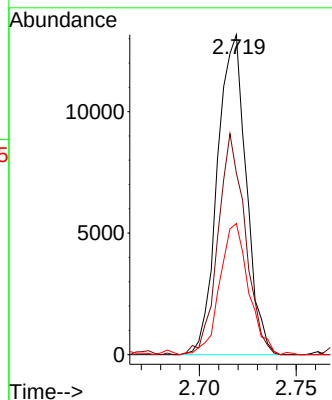
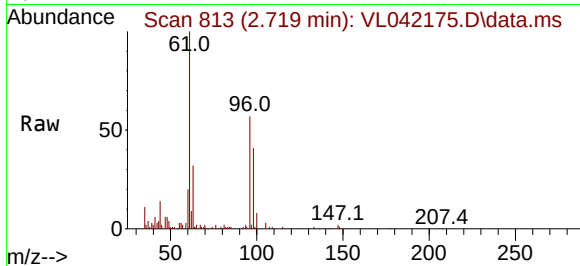




#31
 cis-1,2-Dichloroethene
 Concen: 0.529 ppbv
 RT: 2.719 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

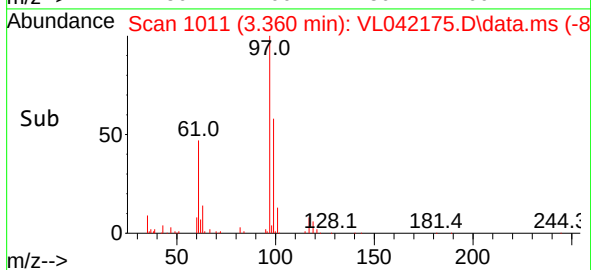
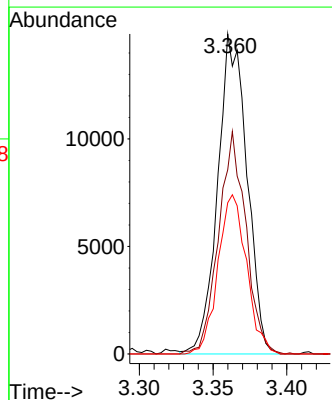
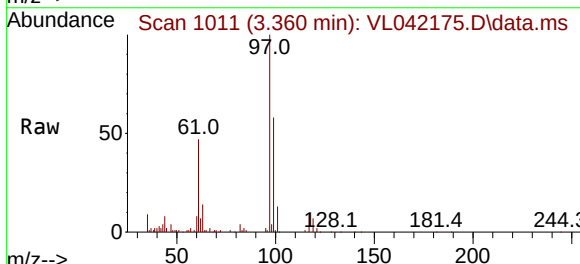
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

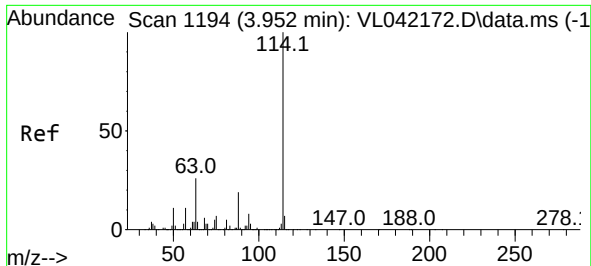
Tgt Ion: 61 Resp: 13601
 Ion Ratio Lower Upper
 61 100
 96 56.8 51.8 77.8
 98 41.0 30.6 46.0



#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_L

ClientSampleId :

VSTDICC0.5

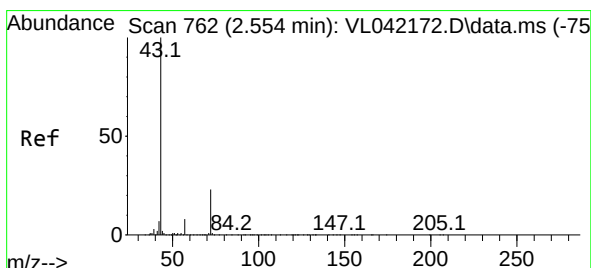
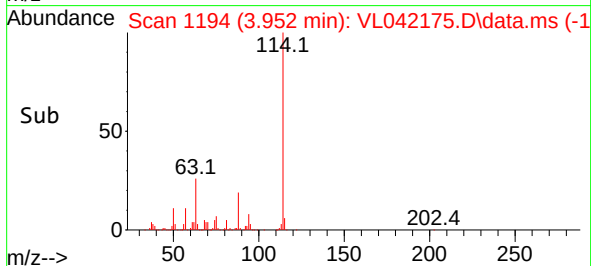
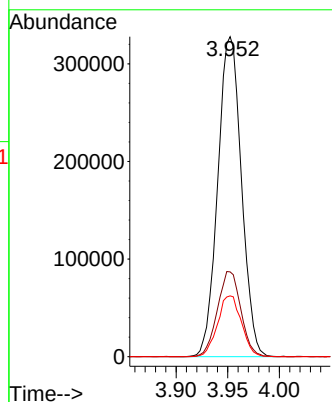
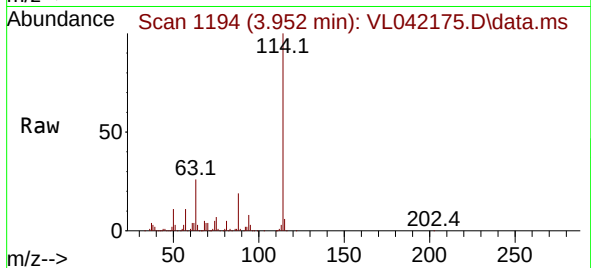
Tgt Ion:114 Resp: 523832

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

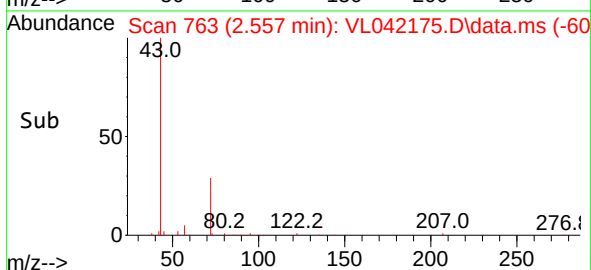
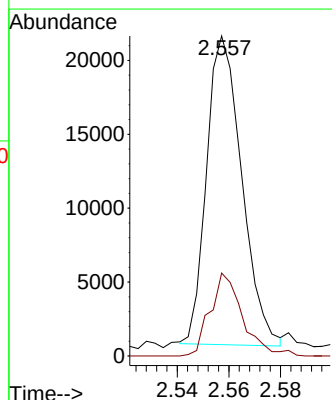
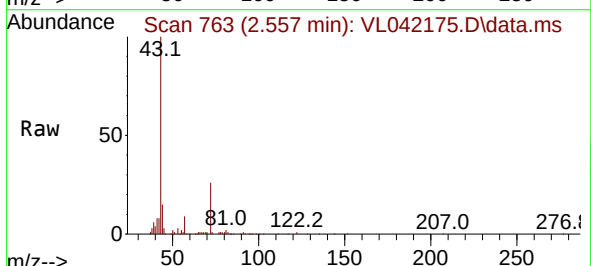
Acq: 27 Mar 2025 10:01

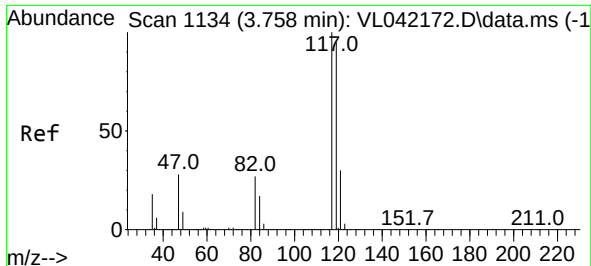
Tgt Ion: 43 Resp: 19739

Ion Ratio Lower Upper

43 100

72 24.8 18.2 27.2

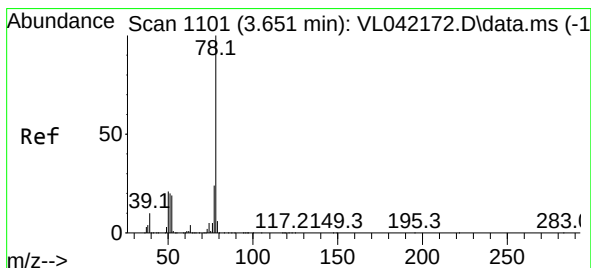
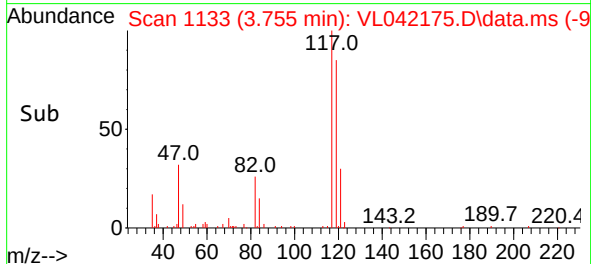
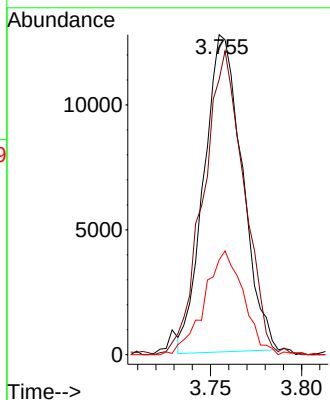
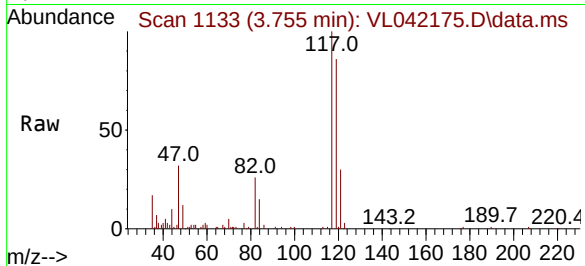




#35
Carbon Tetrachloride
Concen: 0.460 ppbv
RT: 3.755 min Scan# 1133
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

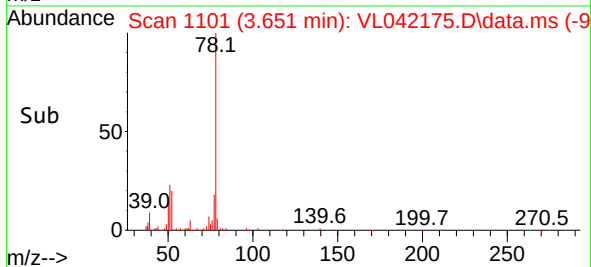
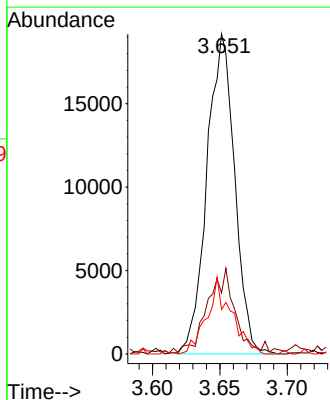
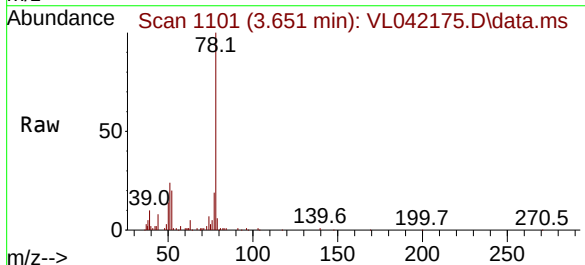
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

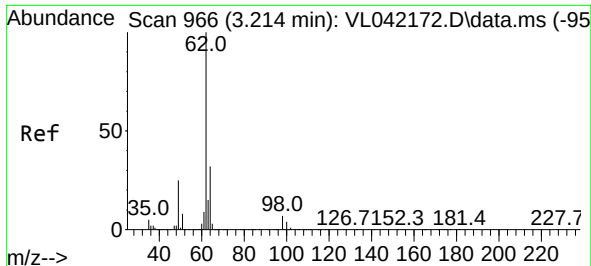
Tgt Ion:117 Resp: 18558
Ion Ratio Lower Upper
117 100
119 86.4 76.2 114.2
121 30.1 24.2 36.4



#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#

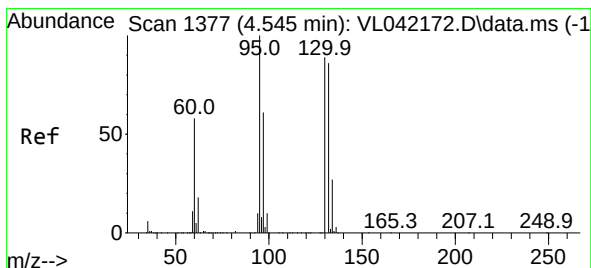
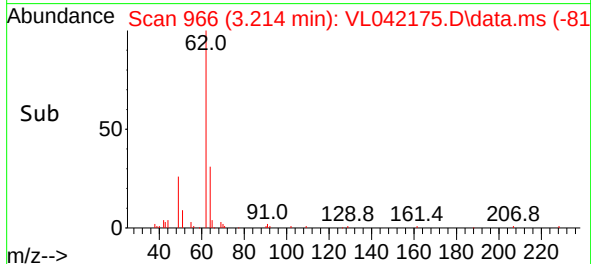
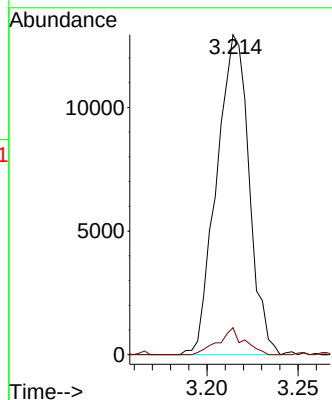
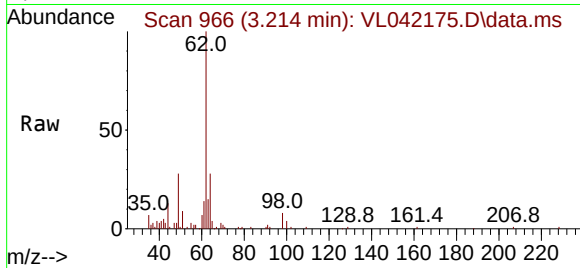




#37
1,2-Dichloroethane
Concen: 0.540 ppbv
RT: 3.214 min Scan# 966
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

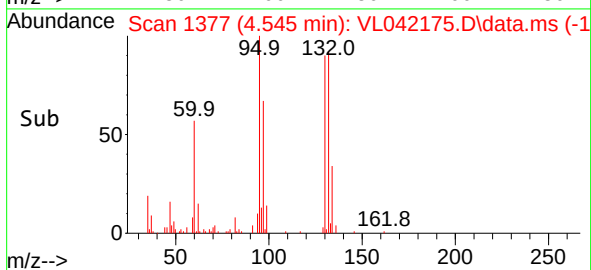
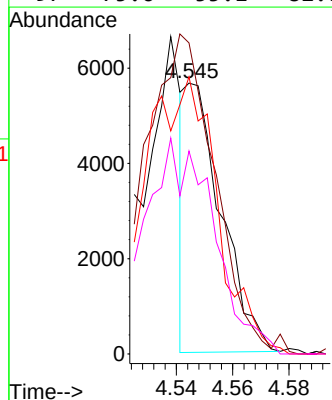
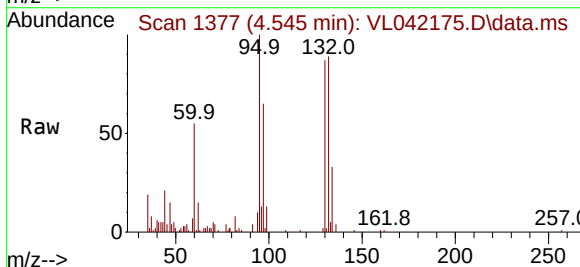
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

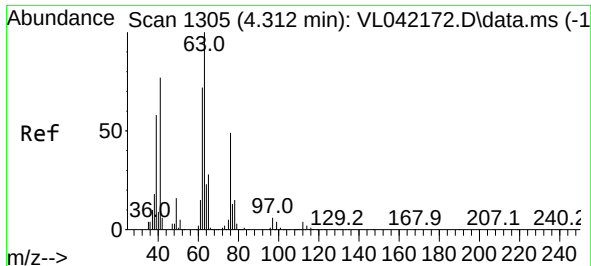
Tgt Ion: 62 Resp: 16062
Ion Ratio Lower Upper
62 100
98 7.0 5.4 8.2



#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

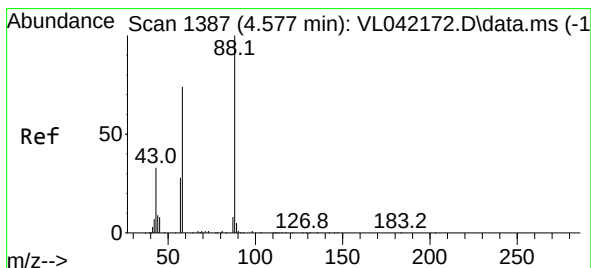
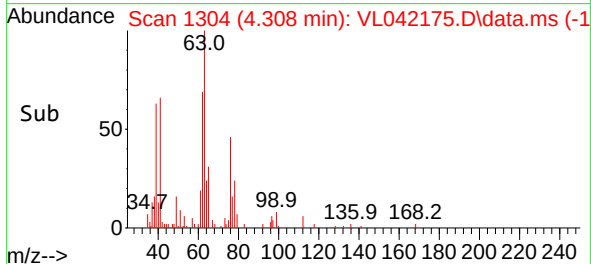
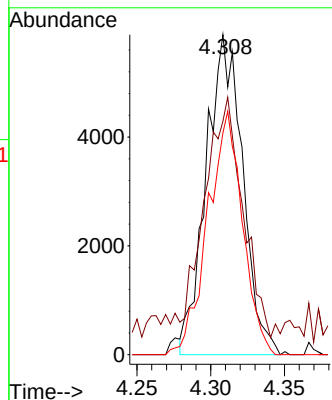
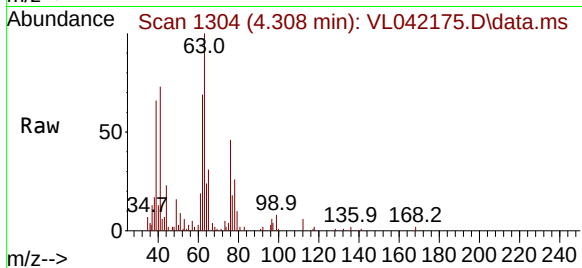
Tgt Ion: 63 Resp: 10123

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

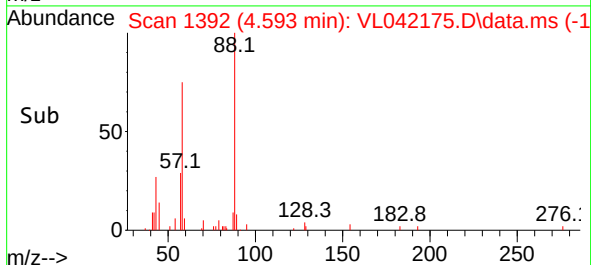
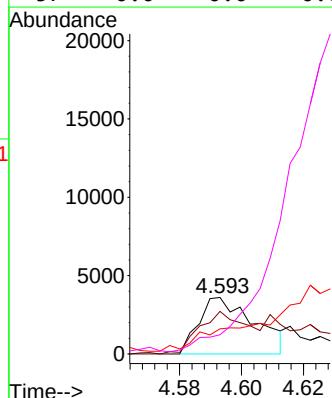
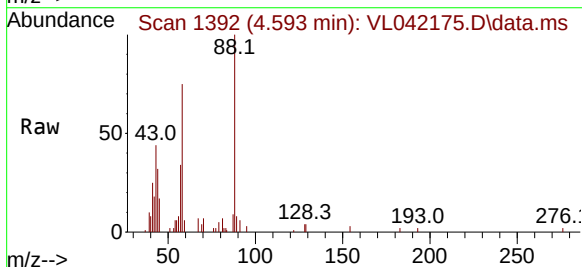
Ion Ratio Lower Upper

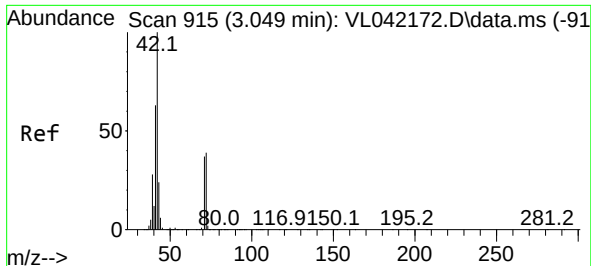
88 100

58 151.6 62.7 94.1#

43 0.0 23.0 34.4#

57 0.0 0.0 0.0

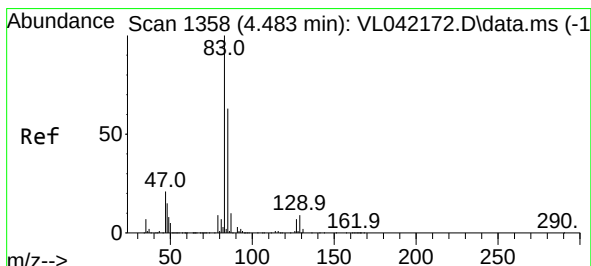
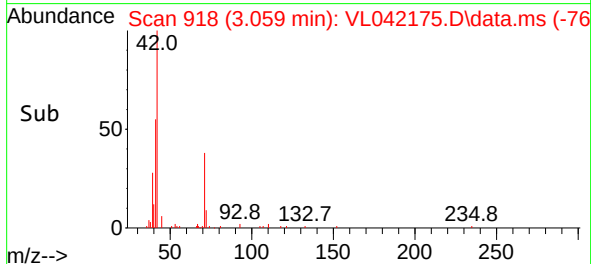
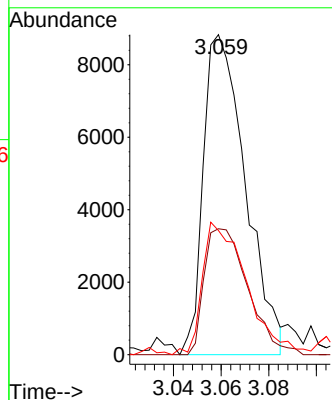
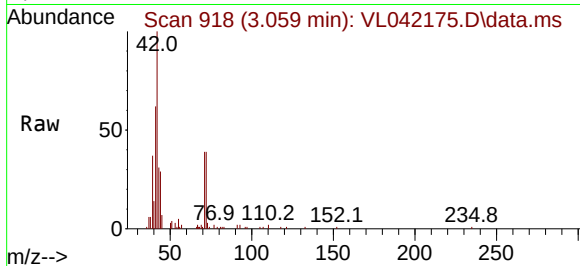




#41
Tetrahydrofuran
Concen: 0.502 ppbv
RT: 3.059 min Scan# 915
Delta R.T. 0.010 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

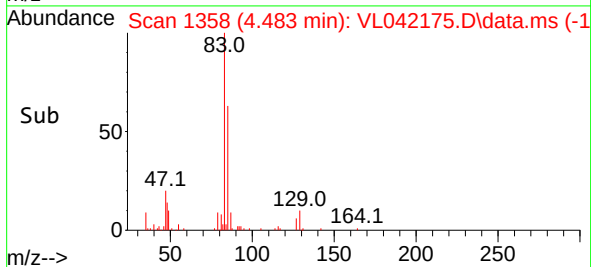
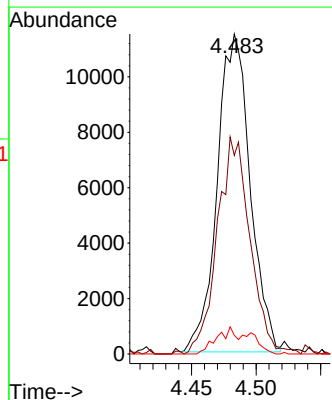
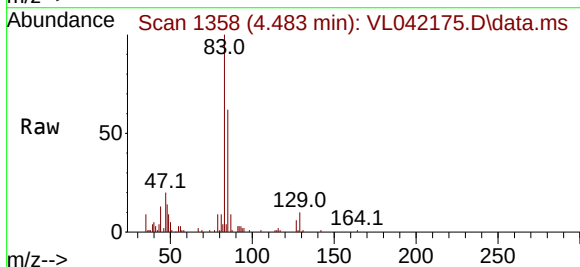
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

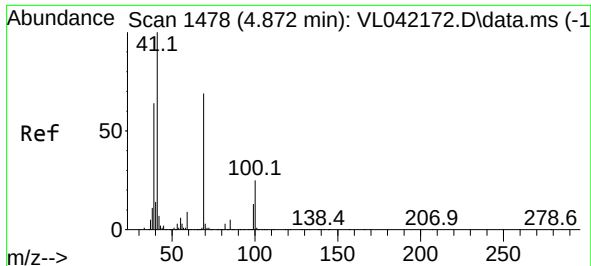
Tgt Ion: 42 Resp: 10856
Ion Ratio Lower Upper
42 100
72 40.7 31.4 47.0
71 43.1 30.2 45.4



#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#

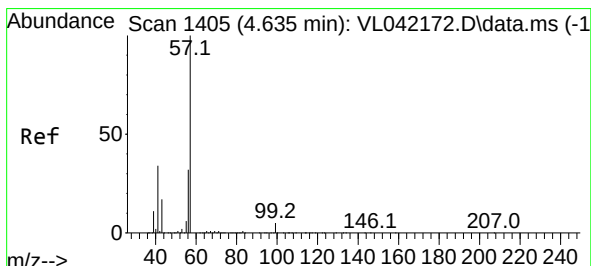
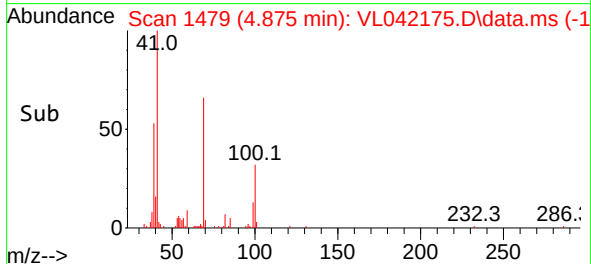
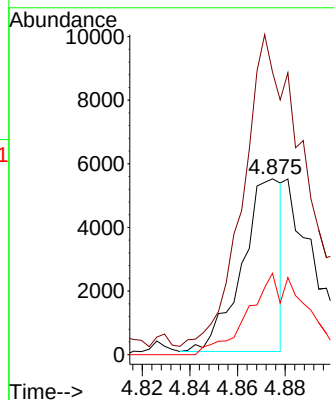
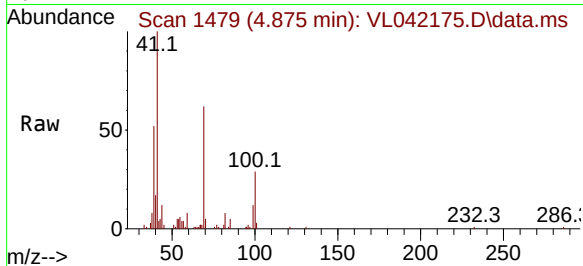




#43
Methyl Methacrylate
Concen: 0.284 ppbv
RT: 4.875 min Scan# 1478
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

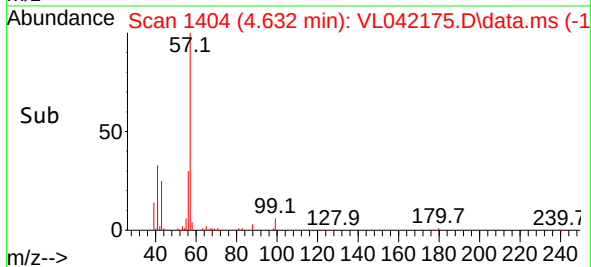
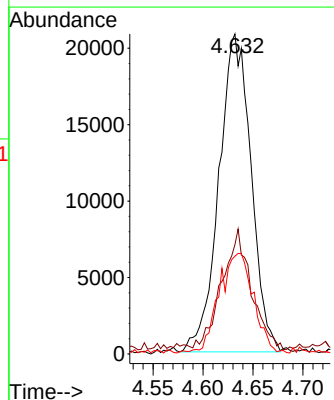
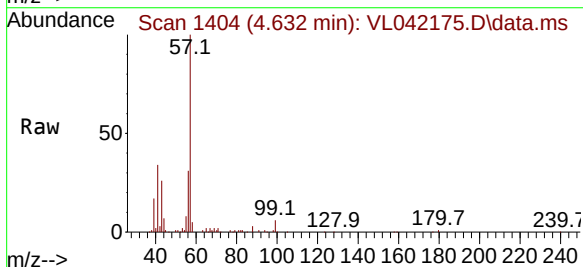
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

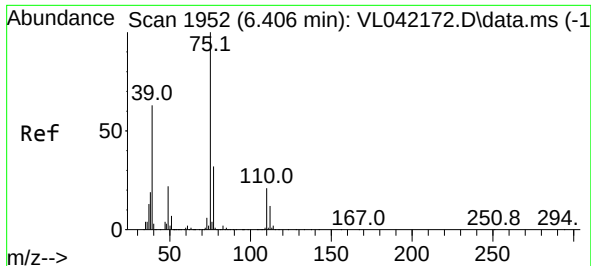
Tgt Ion: 69 Resp: 6229
Ion Ratio Lower Upper
69 100
41 279.4 123.8 185.6#
100 70.5 28.4 42.6#



#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 :

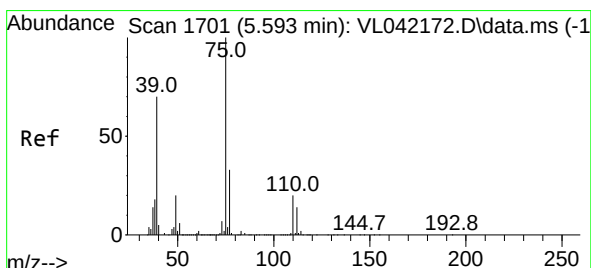
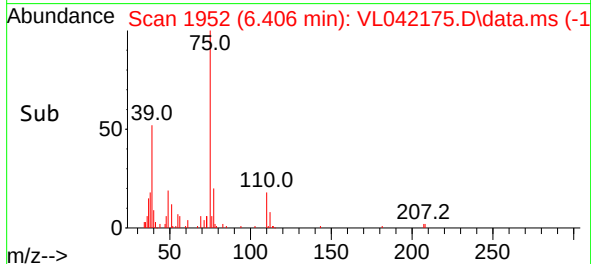
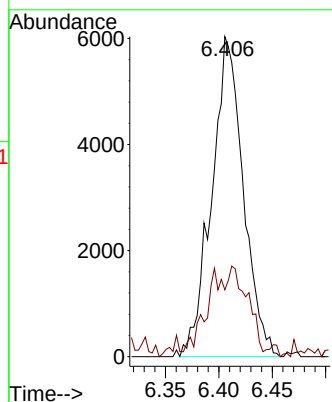
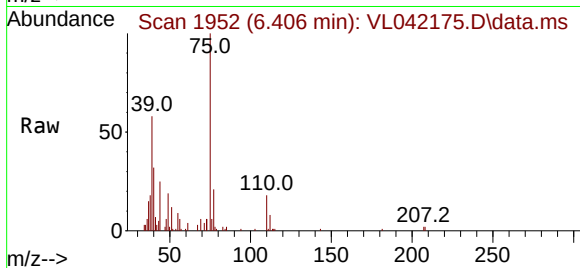
VSTDICC0.5

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

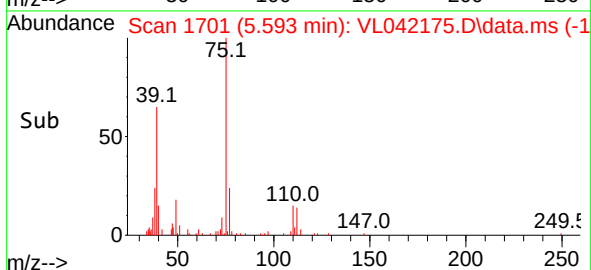
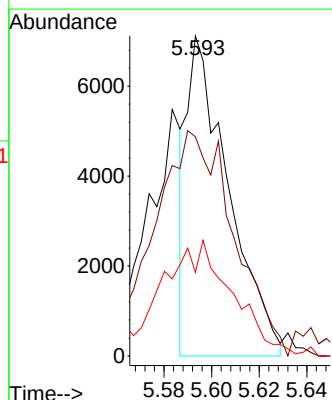
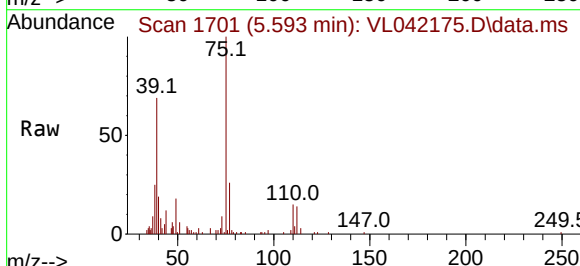
Tgt Ion: 75 Resp: 8584

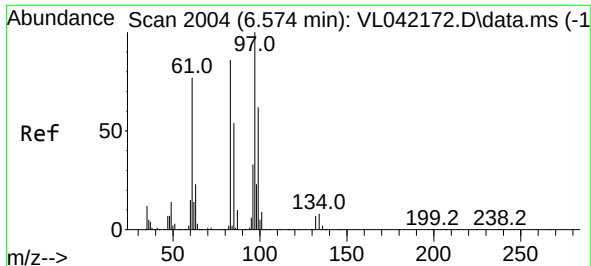
Ion Ratio Lower Upper

75 100

39 65.0 55.8 83.6

77 23.4 26.0 39.0#

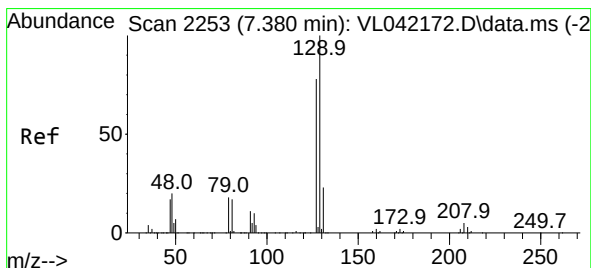
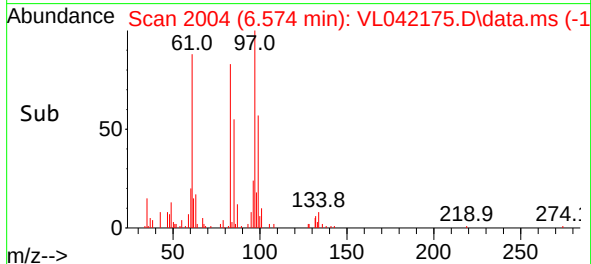
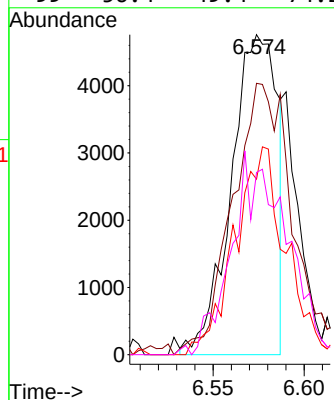
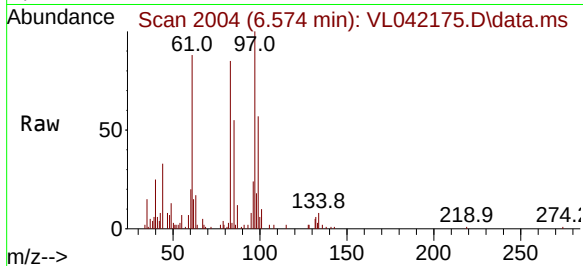




#47
1,1,2-Trichloroethane
Concen: 0.419 ppbv
RT: 6.574 min Scan# 2004
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

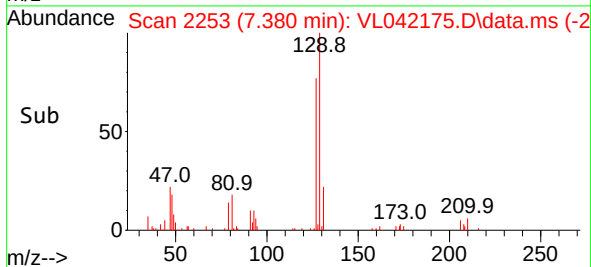
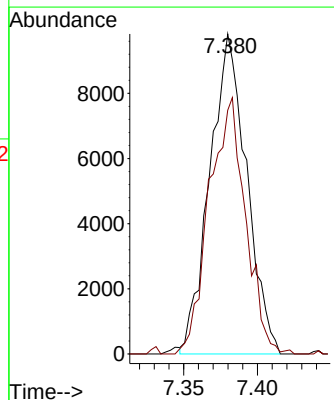
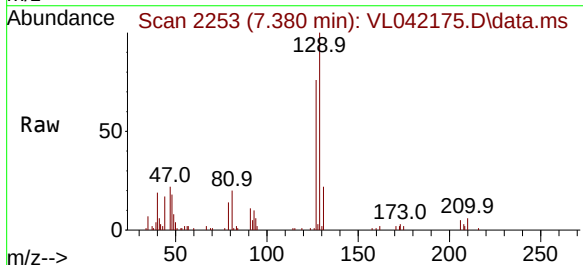
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

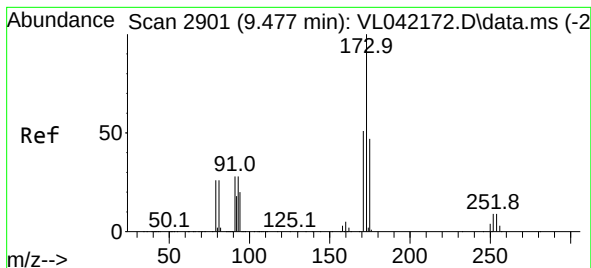
Tgt Ion:	97	Resp:	8374
Ion	Ratio	Lower	Upper
97	100		
83	84.5	69.2	103.8
85	55.9	43.1	64.7
99	56.4	49.4	74.2



#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

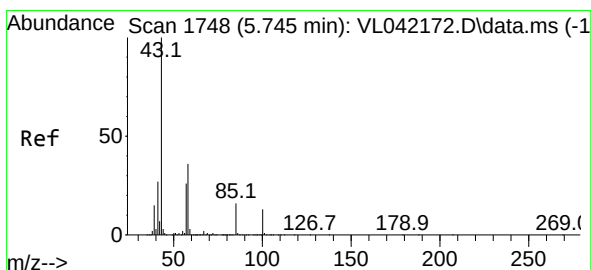
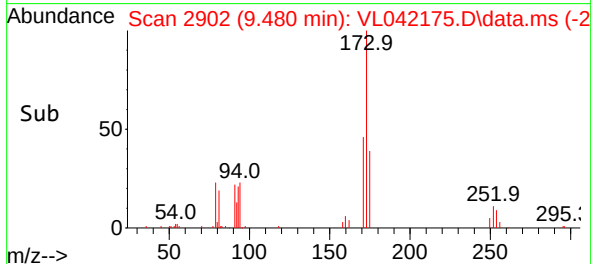
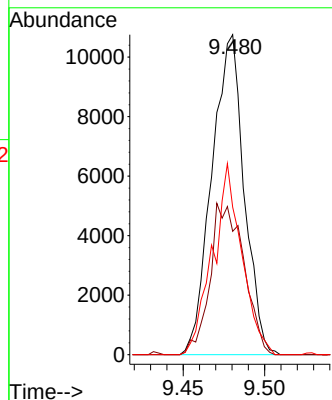
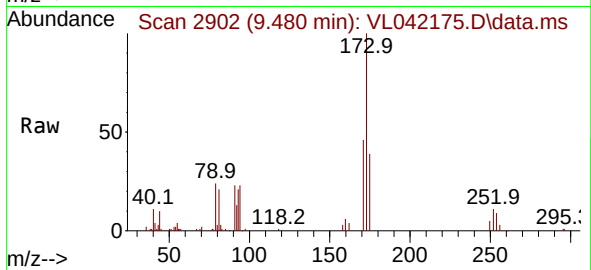
Tgt Ion:173 Resp: 14828

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

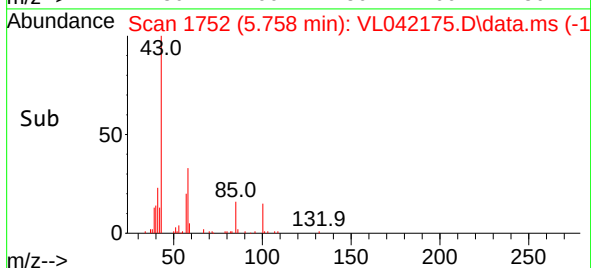
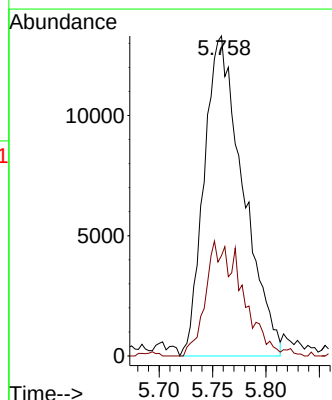
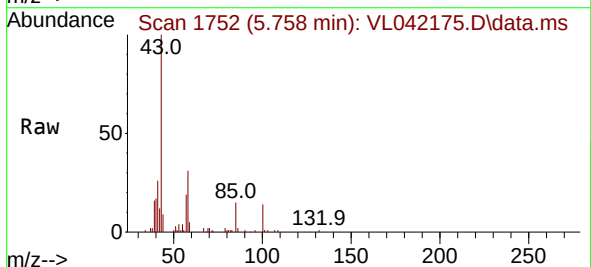
Acq: 27 Mar 2025 10:01

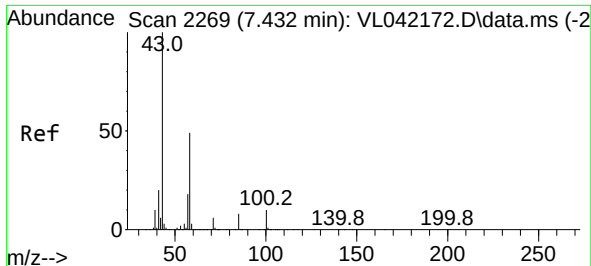
Tgt Ion: 43 Resp: 33674

Ion Ratio Lower Upper

43 100

58 34.4 29.0 43.6

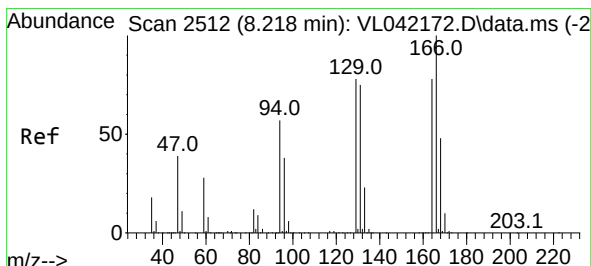
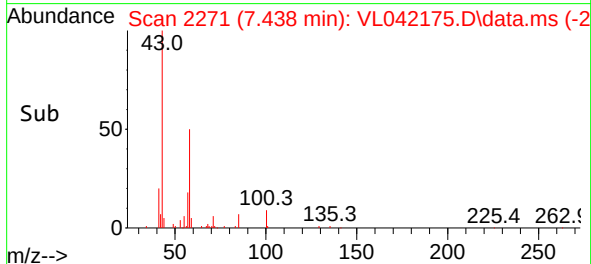
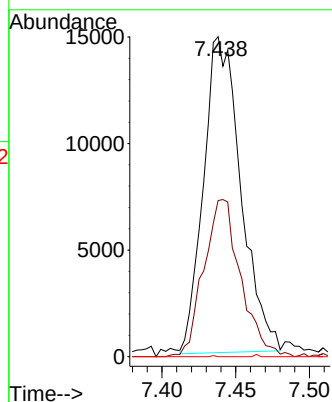
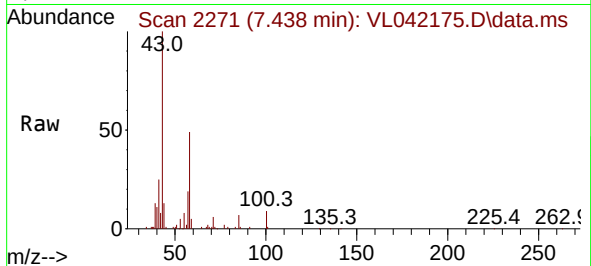




#51
2-Hexanone
Concen: 0.523 ppbv
RT: 7.438 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

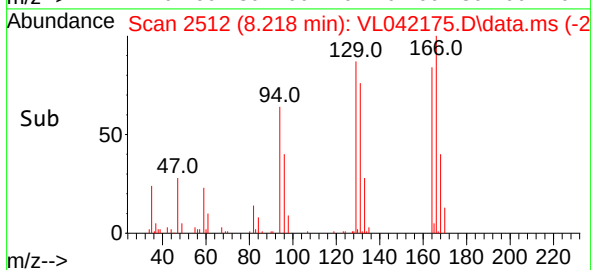
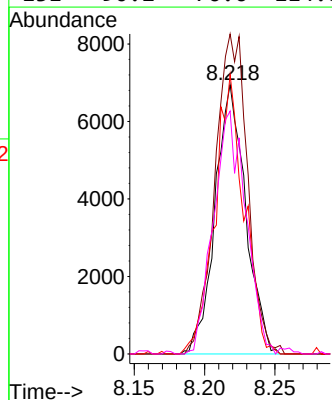
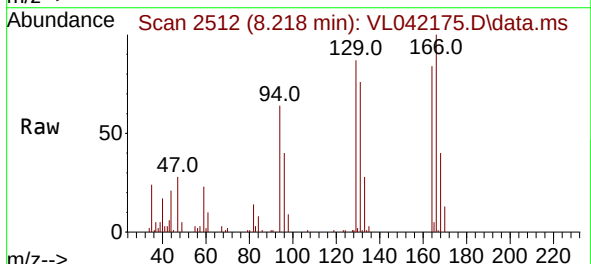
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

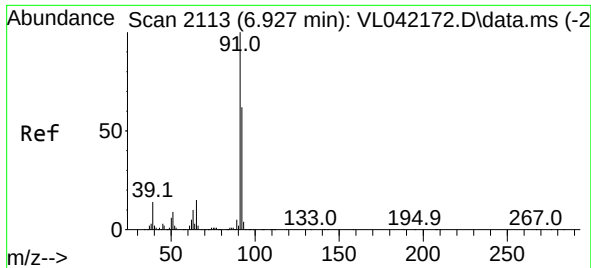
Tgt Ion: 43 Resp: 26154
Ion Ratio Lower Upper
43 100
58 49.8 39.7 59.5
98 0.0 0.1 0.1#



#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

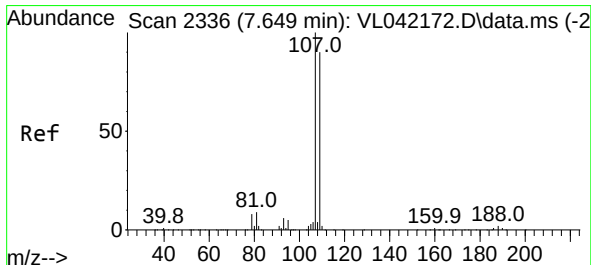
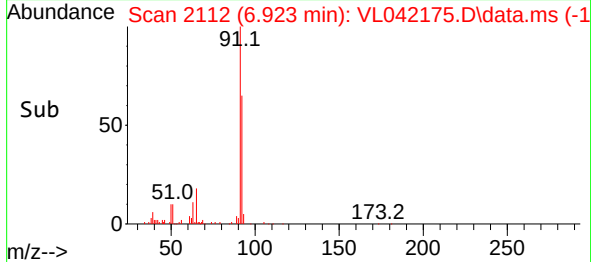
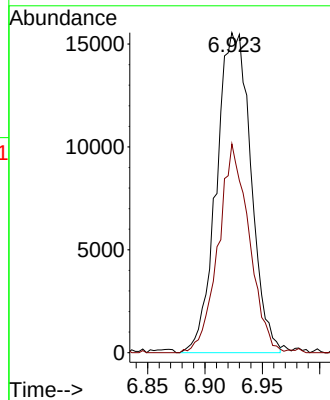
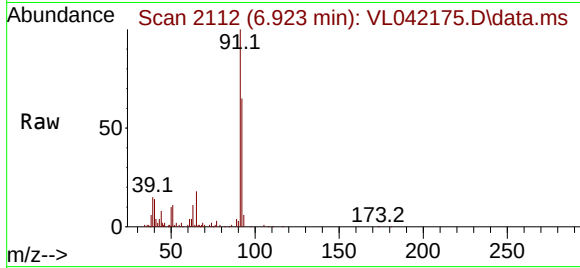




#53
Toluene
Concen: 0.527 ppbv
RT: 6.923 min Scan# 2112
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

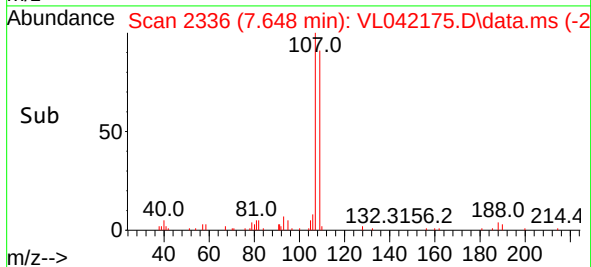
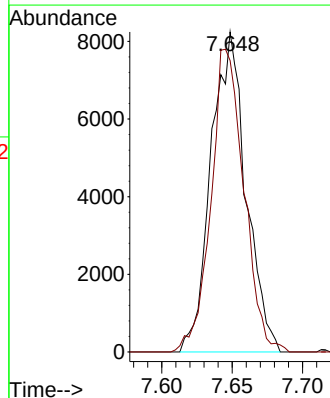
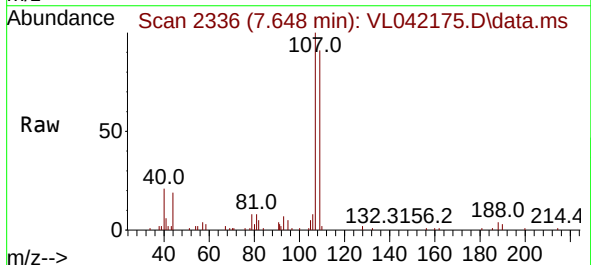
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

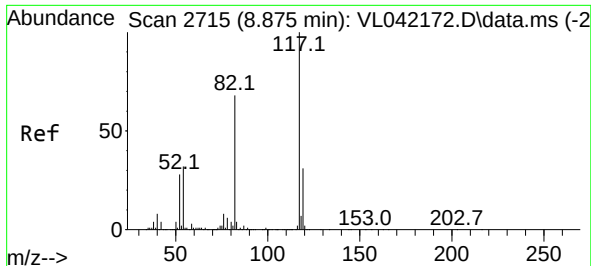
Tgt Ion: 91 Resp: 32444
Ion Ratio Lower Upper
91 100
92 58.9 48.4 72.6



#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

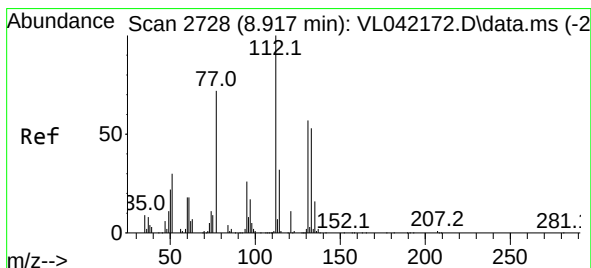
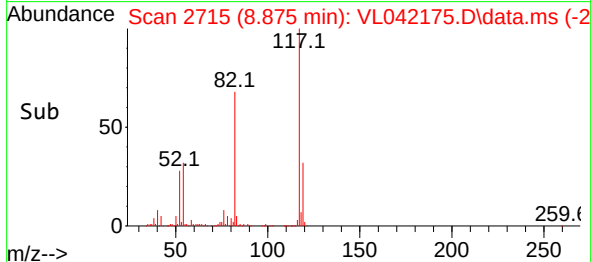
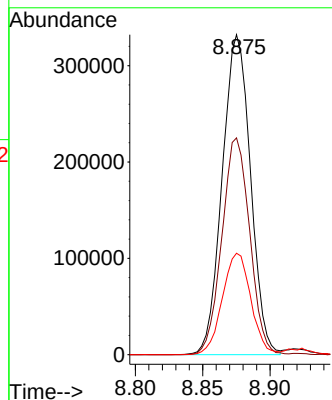
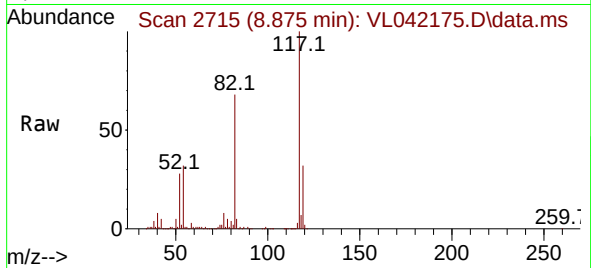




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

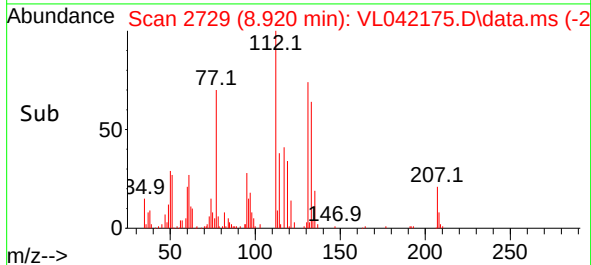
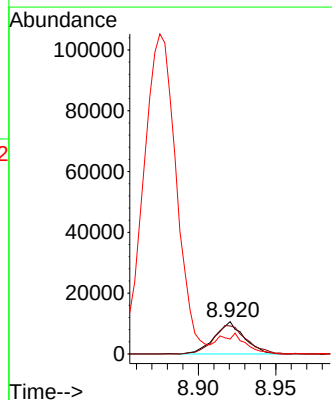
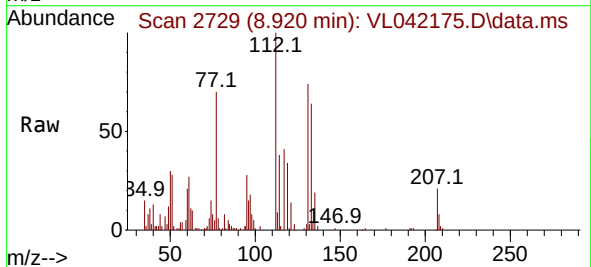
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

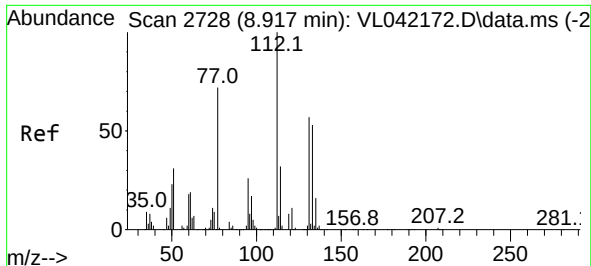
Tgt Ion:117 Resp: 485078
Ion Ratio Lower Upper
117 100
82 67.0 55.8 83.6
119 33.7 25.5 38.3



#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#

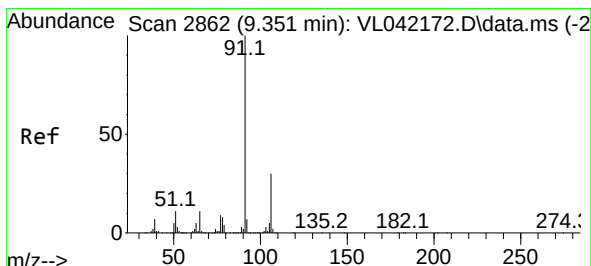
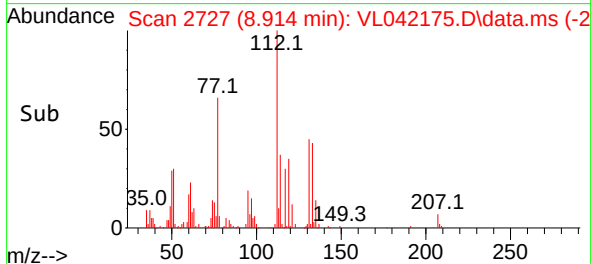
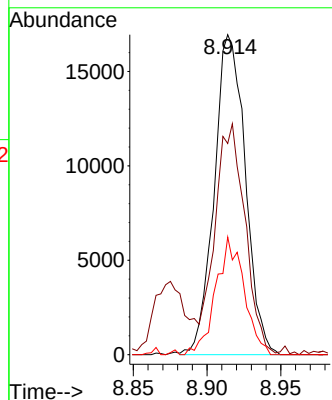
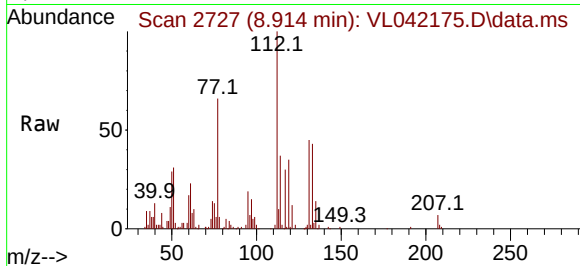




#57
Chlorobenzene
Concen: 0.540 ppbv
RT: 8.914 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

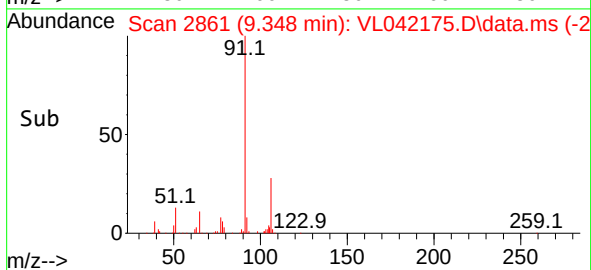
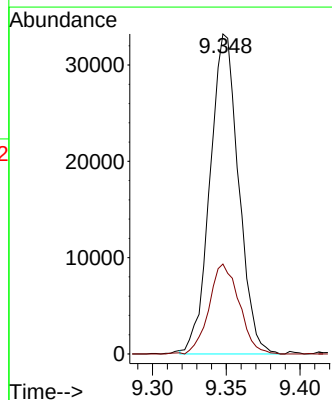
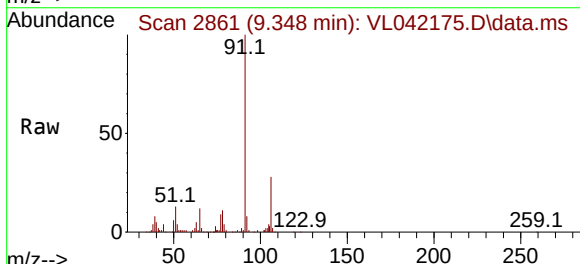
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.5

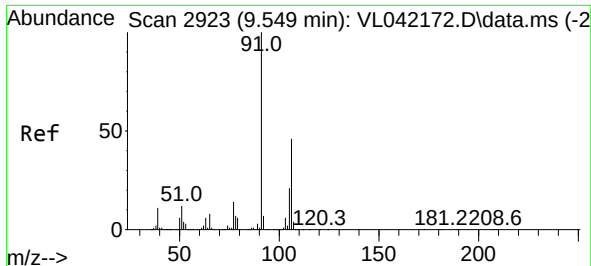
Tgt Ion:112 Resp: 24826
Ion Ratio Lower Upper
112 100
77 65.1 58.2 87.2
114 36.8 29.1 35.5#



#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

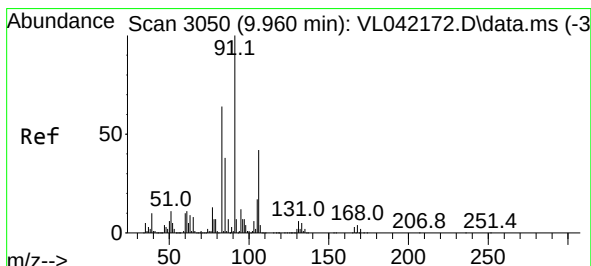
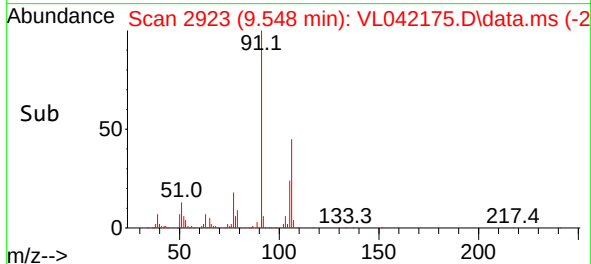
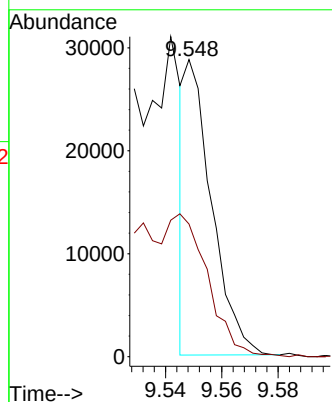
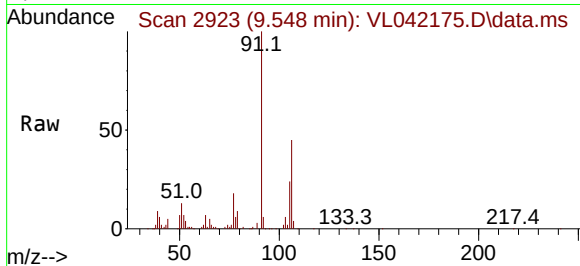




#59
m/p-Xylene
Concen: 0.272 ppbv
RT: 9.548 min Scan# 2923
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

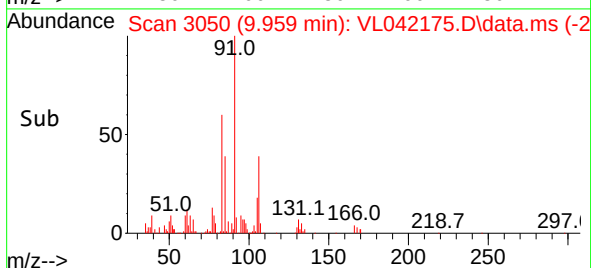
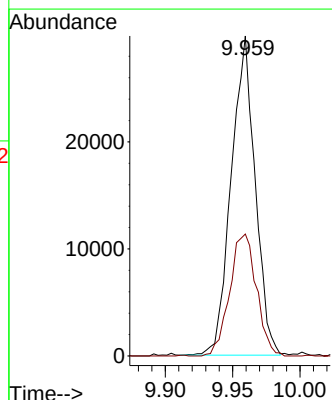
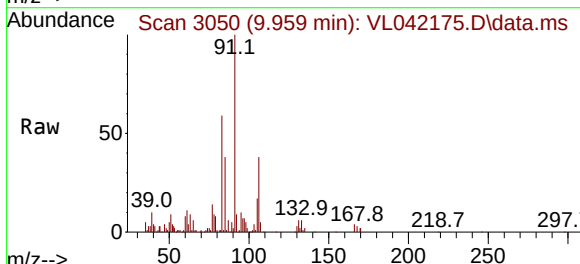
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

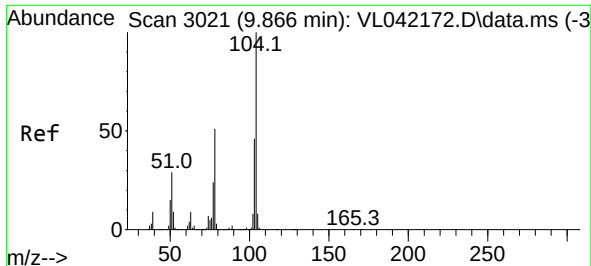
Tgt Ion: 91 Resp: 18711
Ion Ratio Lower Upper
91 100
106 176.2 36.4 54.6#



#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

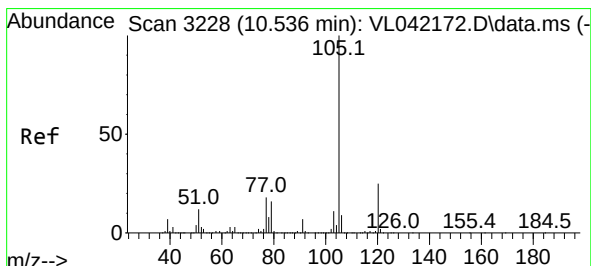
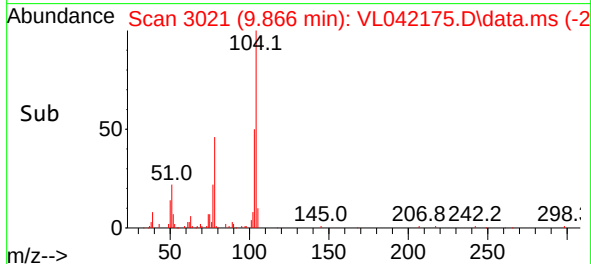
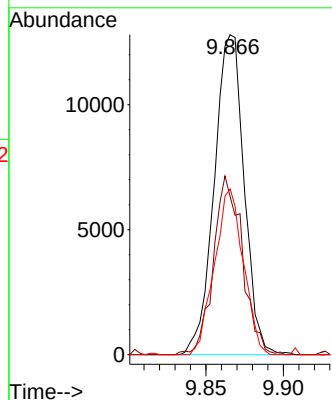
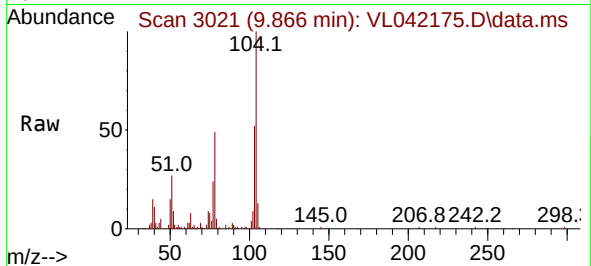




#61
Styrene
Concen: 0.504 ppbv
RT: 9.866 min Scan# 3021
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

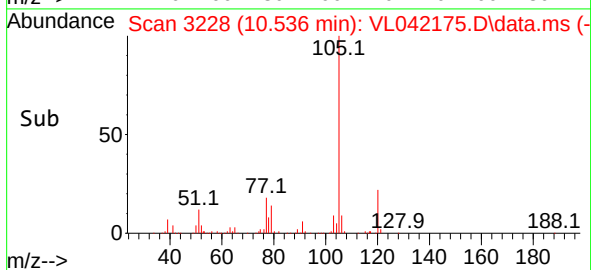
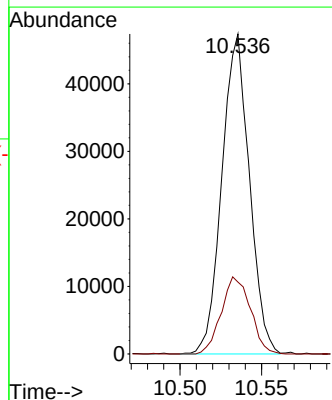
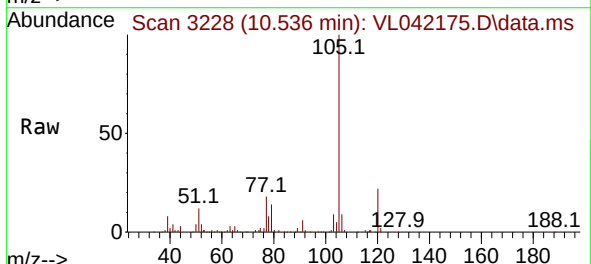
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

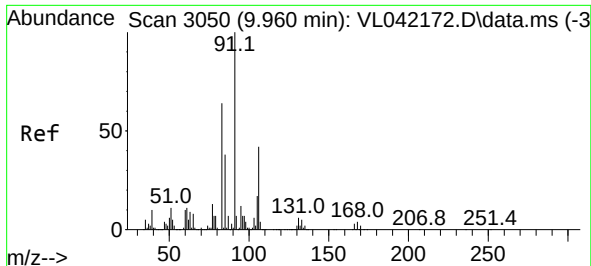
Tgt Ion:104 Resp: 17198
Ion Ratio Lower Upper
104 100
78 53.7 41.8 62.6
103 50.2 37.0 55.4



#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

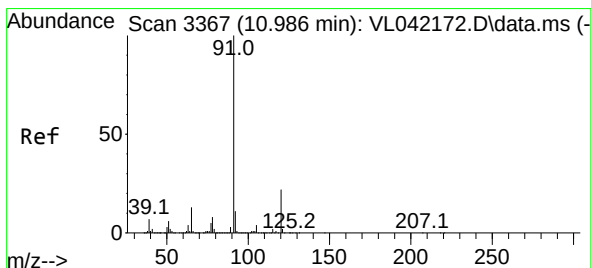
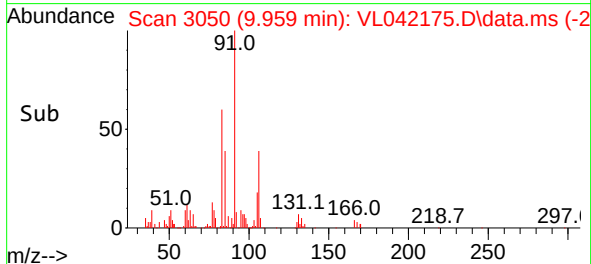
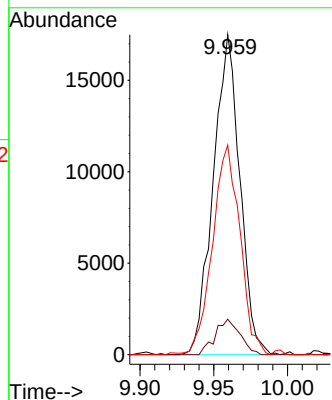
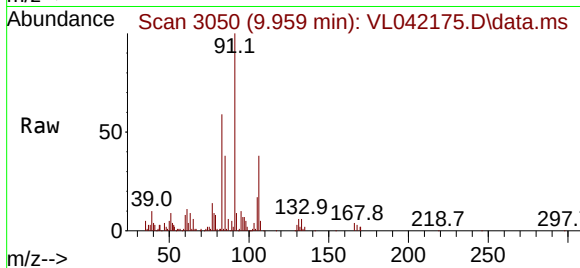
Tgt Ion: 83 Resp: 21989

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

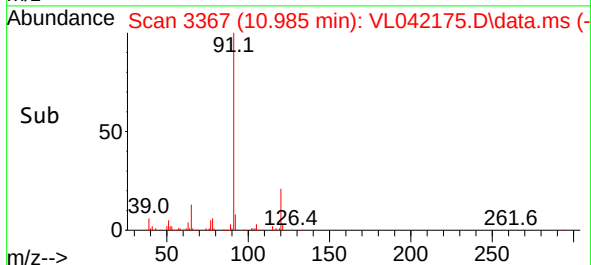
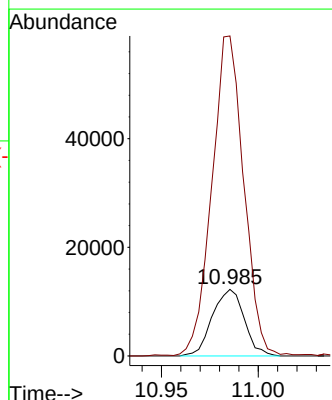
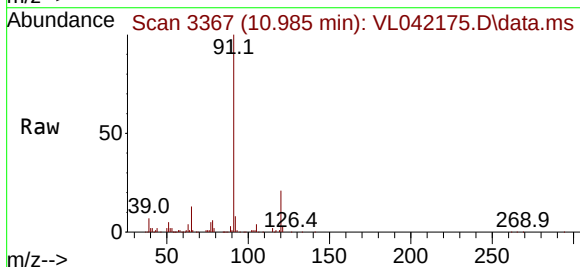
Acq: 27 Mar 2025 10:01

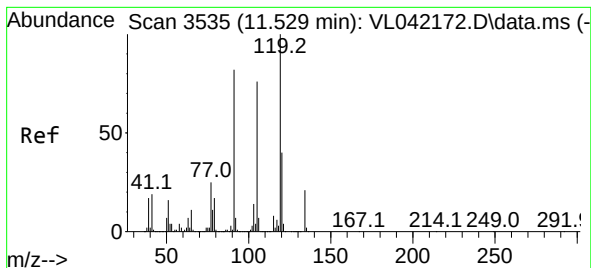
Tgt Ion: 120 Resp: 14030

Ion Ratio Lower Upper

120 100

91 483.1 376.9 565.3

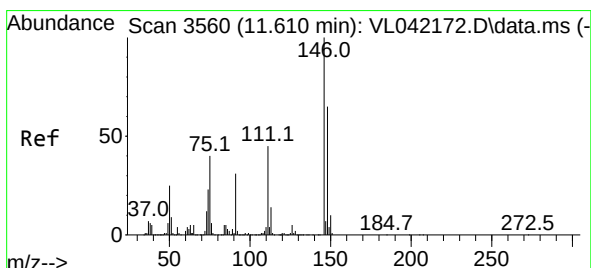
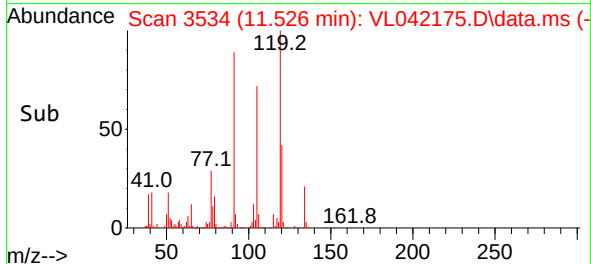
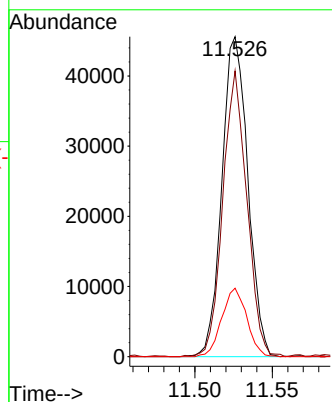
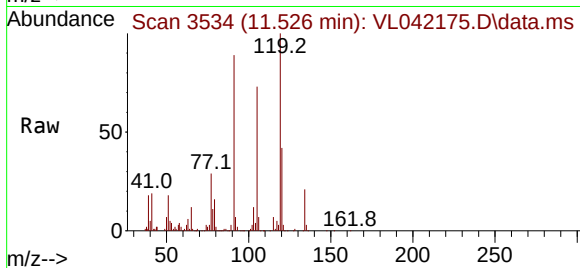




#65
tert-Butylbenzene
Concen: 0.557 ppbv
RT: 11.526 min Scan# 3534
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

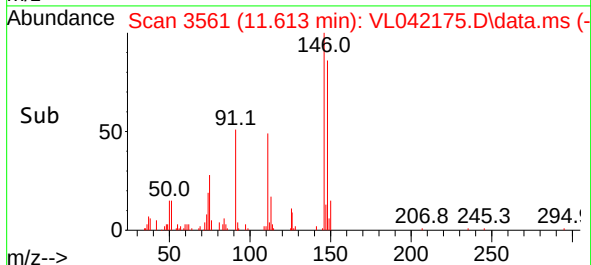
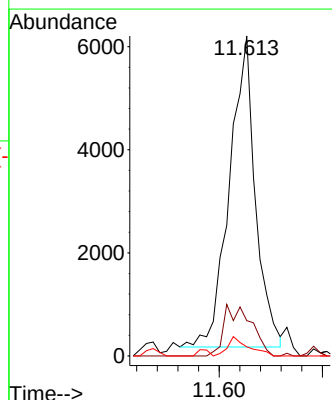
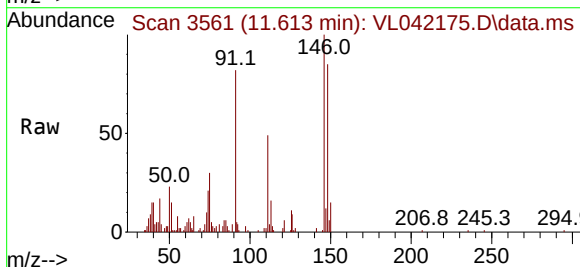
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

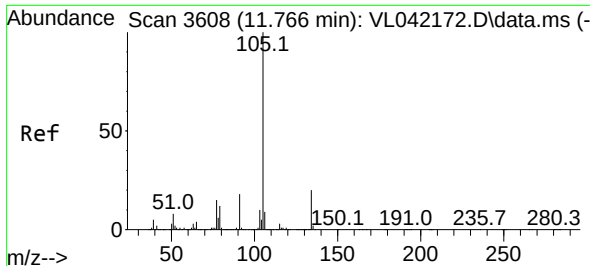
Tgt Ion:119 Resp: 53115
Ion Ratio Lower Upper
119 100
91 82.9 66.0 99.0
134 20.6 16.7 25.1



#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

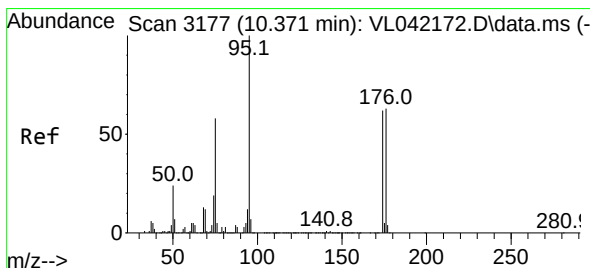
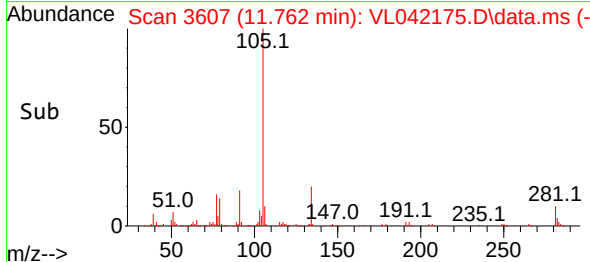
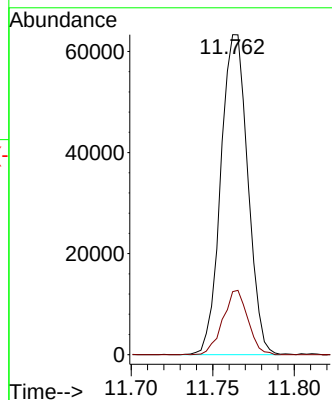
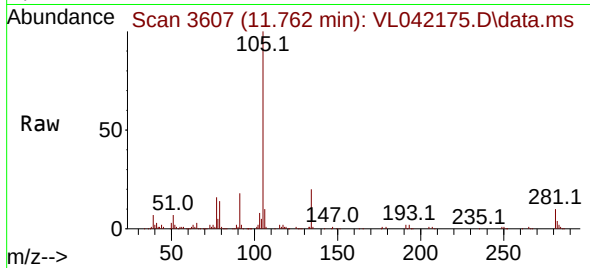




#67
 sec-Butylbenzene
 Concen: 0.550 ppbv
 RT: 11.762 min Scan# 3608
 Delta R.T. -0.003 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

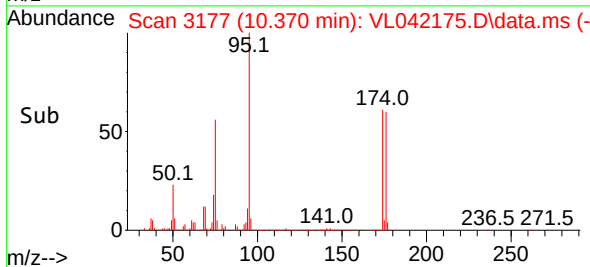
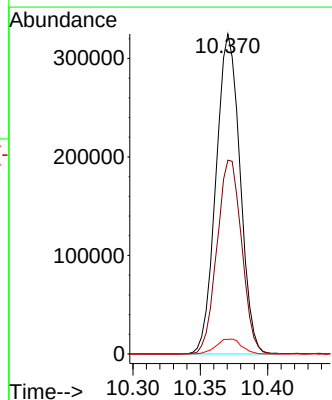
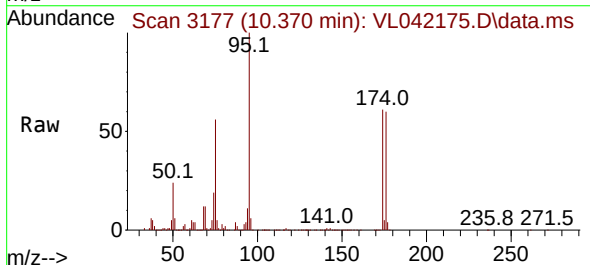
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

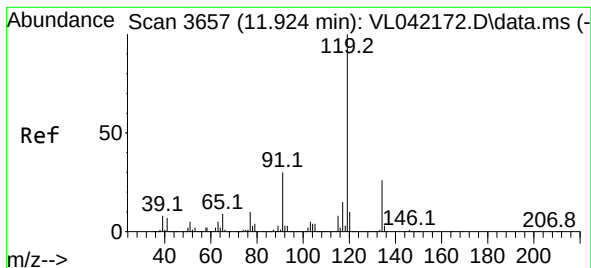
Tgt Ion:105 Resp: 72879
 Ion Ratio Lower Upper
 105 100
 134 18.6 15.5 23.3



#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# 3

Delta R.T. -0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

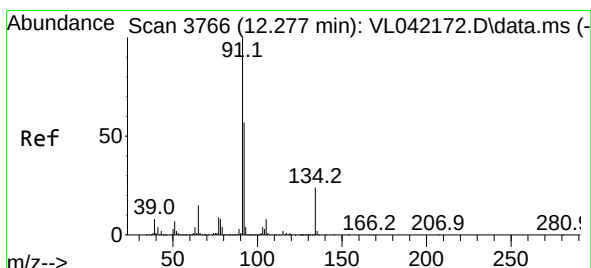
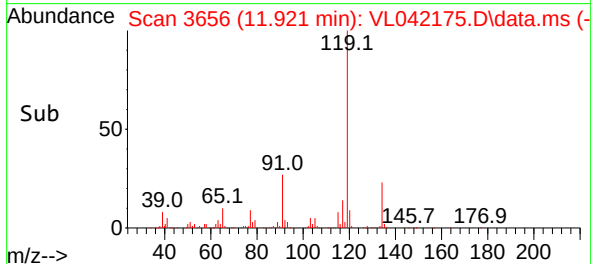
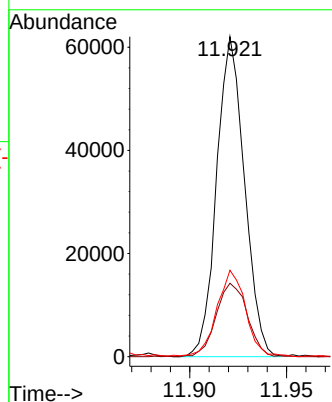
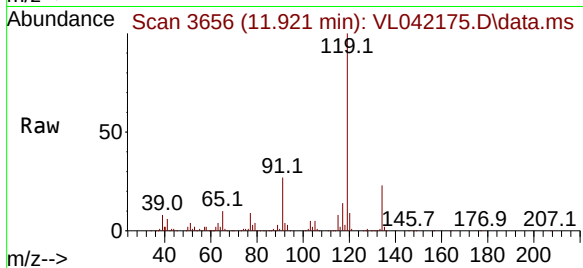
Tgt Ion:119 Resp: 61933

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

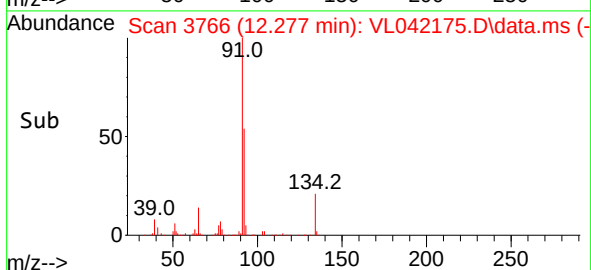
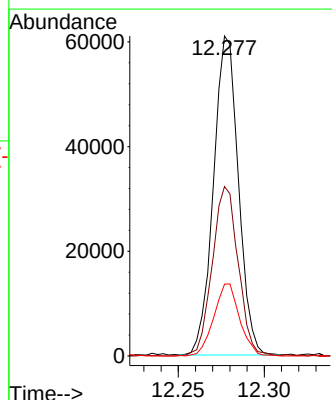
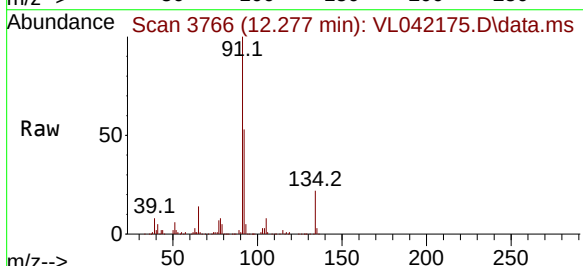
Tgt Ion: 91 Resp: 61507

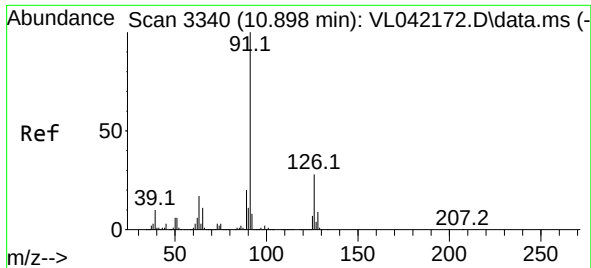
Ion Ratio Lower Upper

91 100

92 55.3 44.9 67.3

134 23.4 19.2 28.8

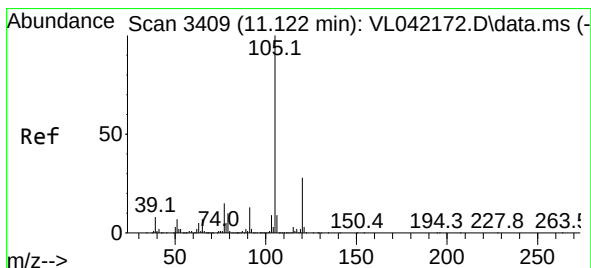
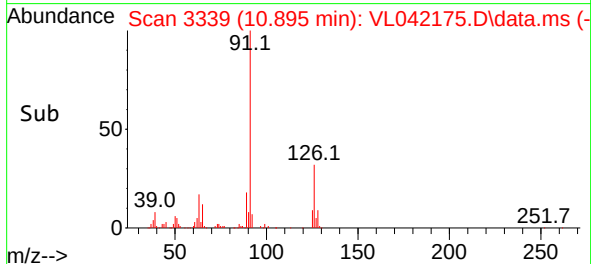
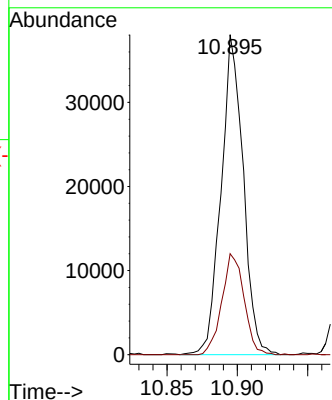
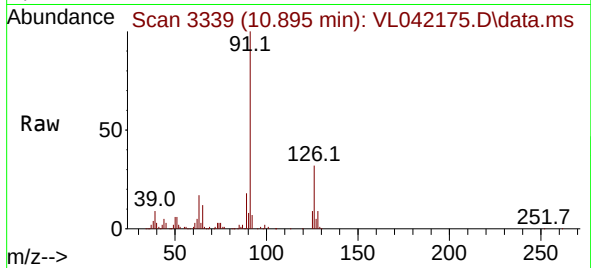




#71
2-Chlorotoluene
Concen: 0.520 ppbv
RT: 10.895 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

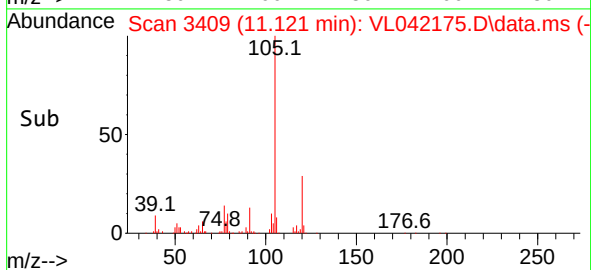
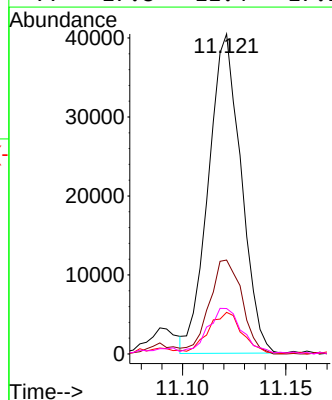
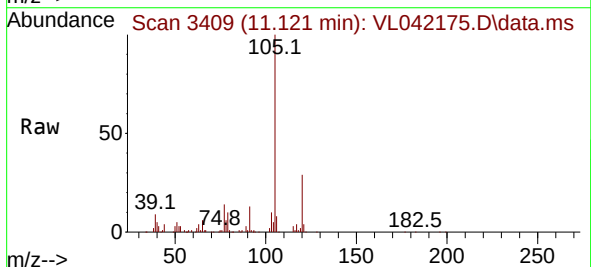
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

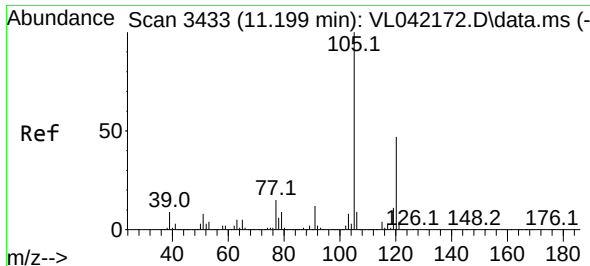
Tgt Ion: 91 Resp: 41637
Ion Ratio Lower Upper
91 100
126 31.7 11.6 46.4



#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#

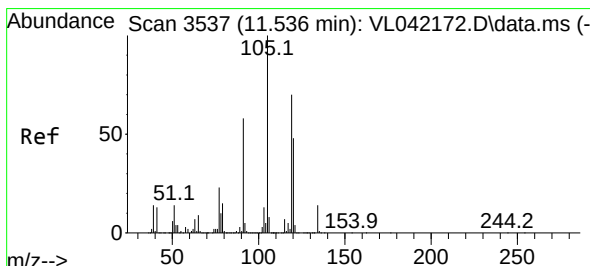
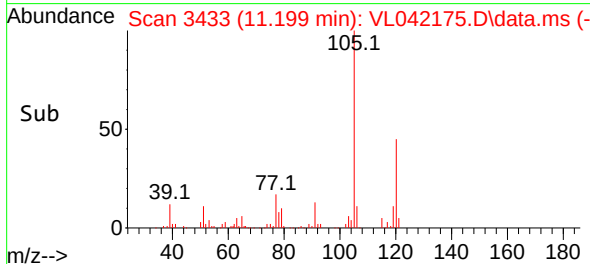
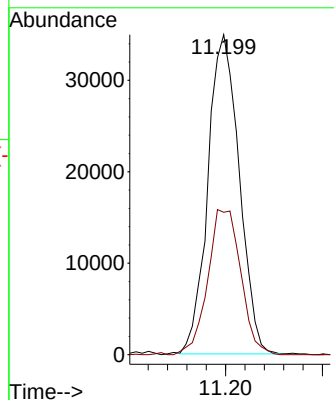
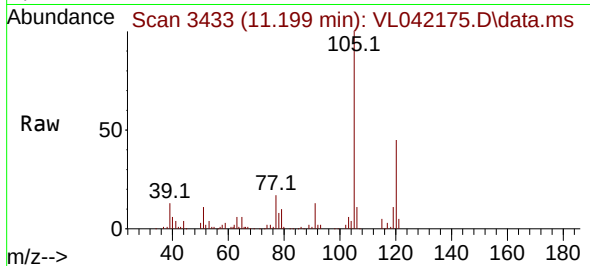




#73
 1,3,5-Trimethylbenzene
 Concen: 0.523 ppbv
 RT: 11.199 min Scan# 3433
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

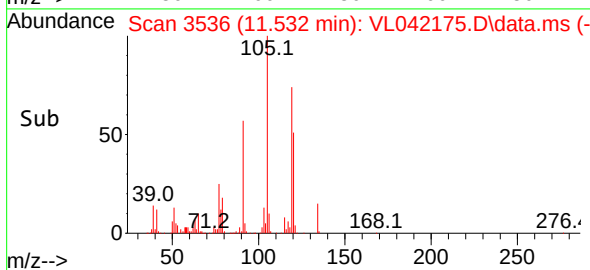
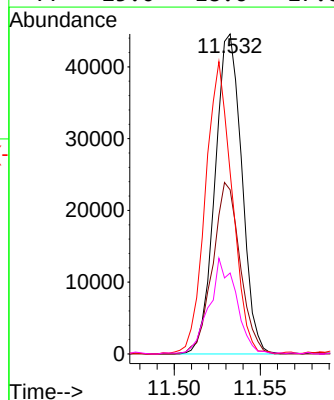
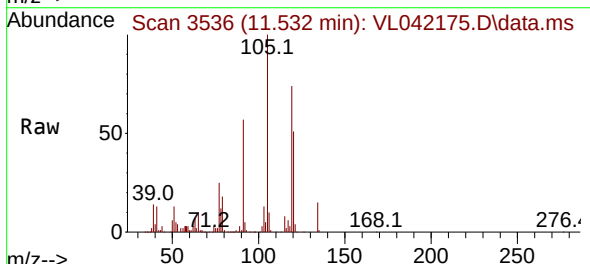
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

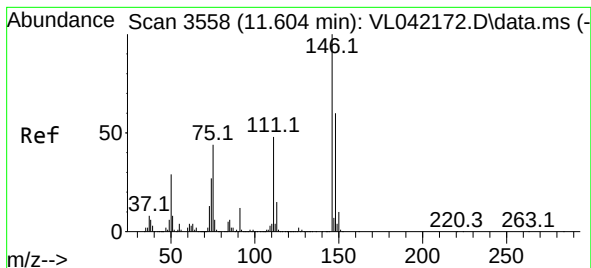
Tgt Ion:105 Resp: 39190
 Ion Ratio Lower Upper
 105 100
 120 44.6 37.4 56.0



#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

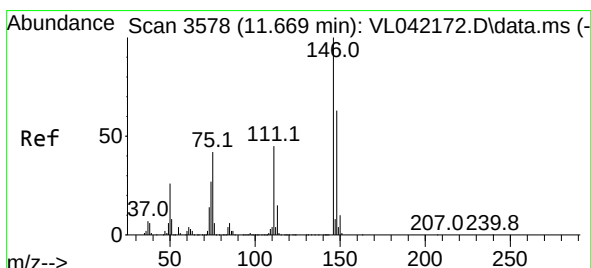
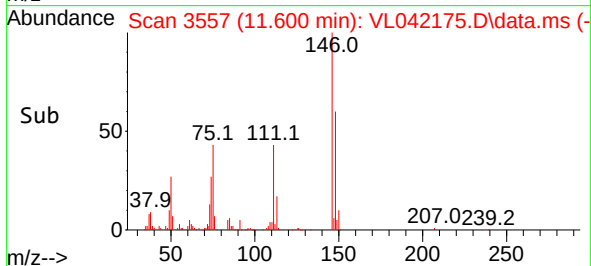
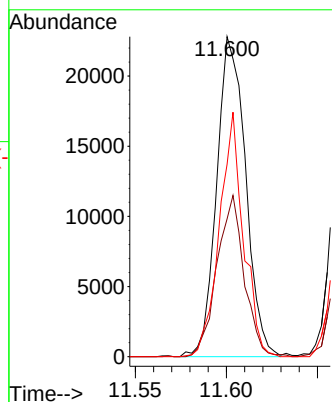
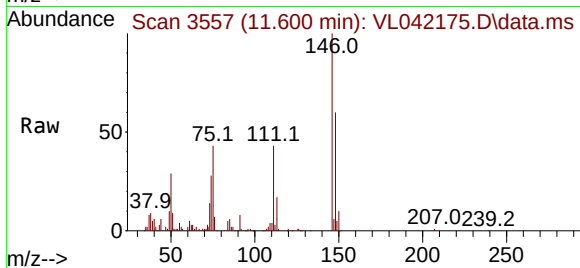
Tgt Ion:146 Resp: 25122

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

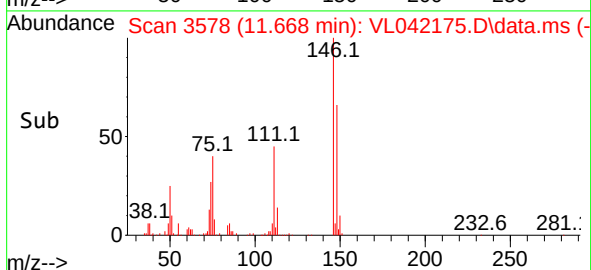
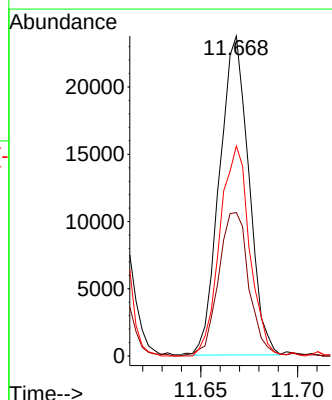
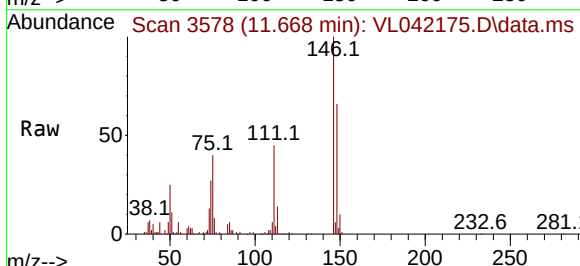
Tgt Ion:146 Resp: 24991

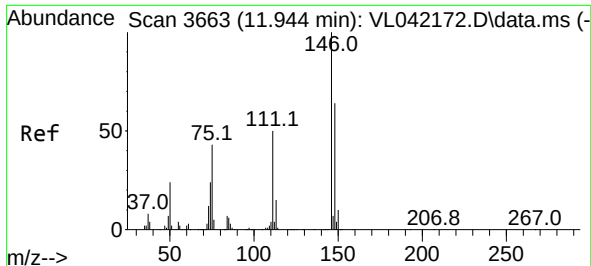
Ion Ratio Lower Upper

146 100

111 47.0 23.0 69.0

148 67.5 31.9 95.7

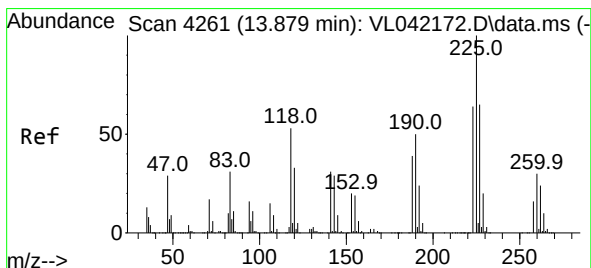
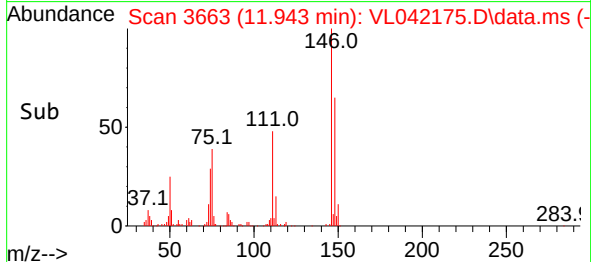
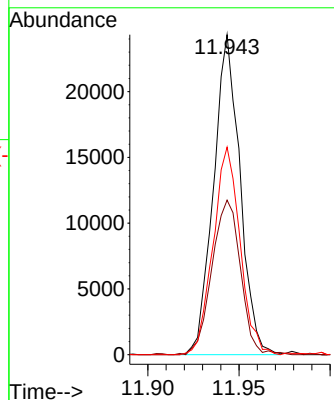
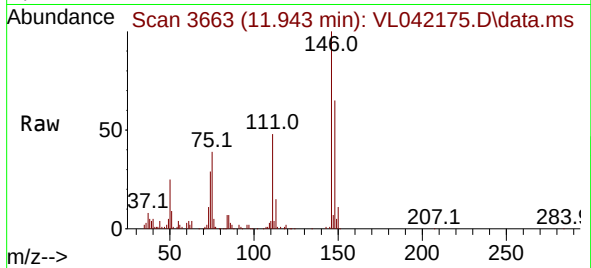




#77
1,2-Dichlorobenzene
Concen: 0.532 ppbv
RT: 11.943 min Scan# 3663
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

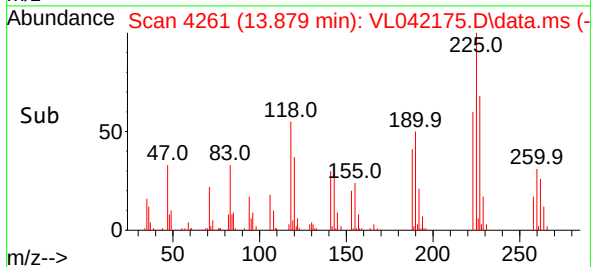
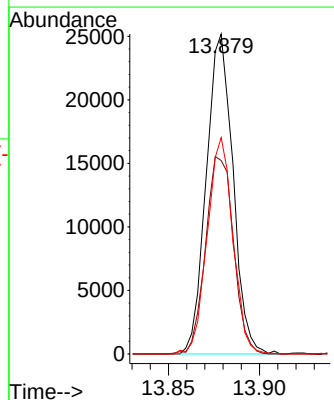
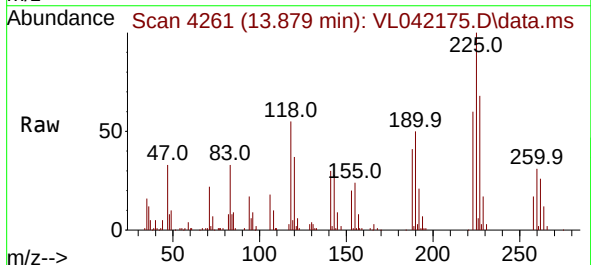
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

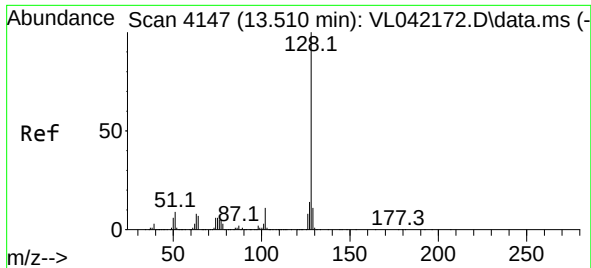
Tgt Ion:146 Resp: 24548
Ion Ratio Lower Upper
146 100
111 52.2 24.8 74.3
148 66.6 31.6 94.8



#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

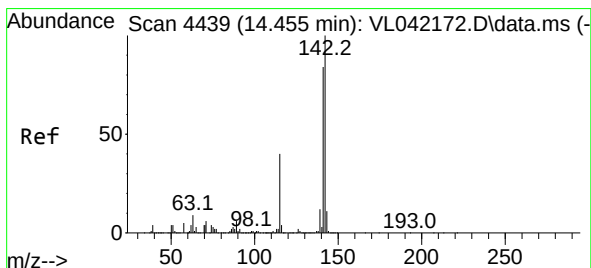
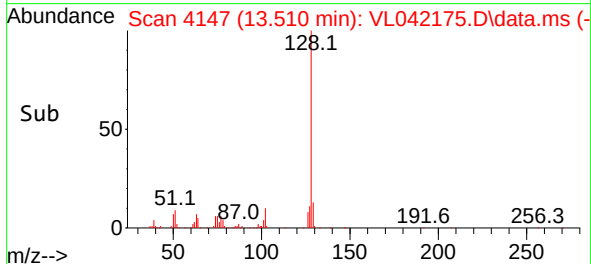
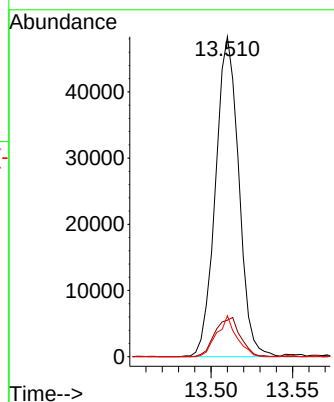
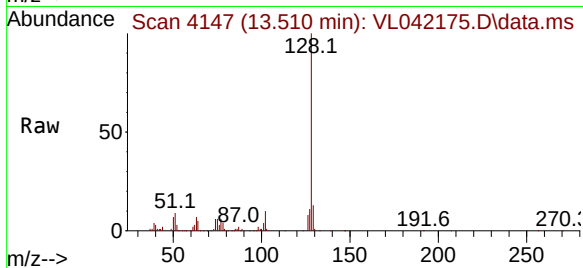




#79
Naphthalene
Concen: 0.508 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

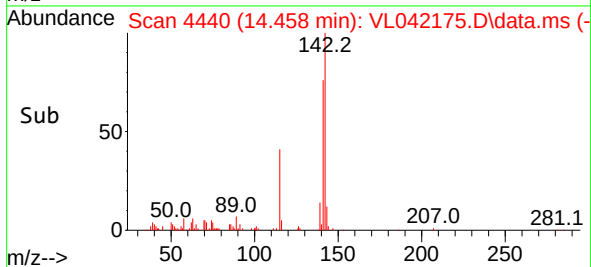
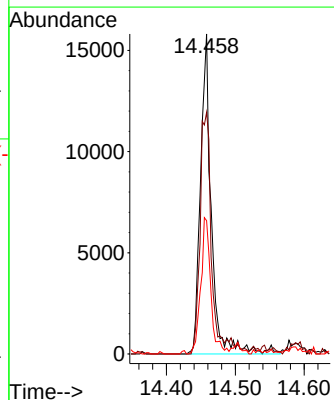
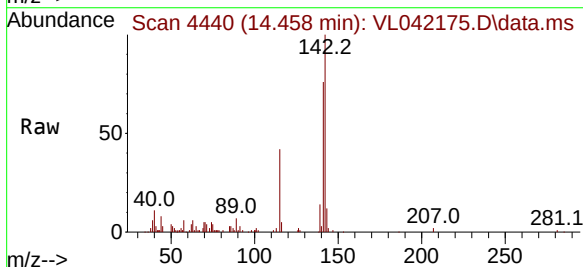
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

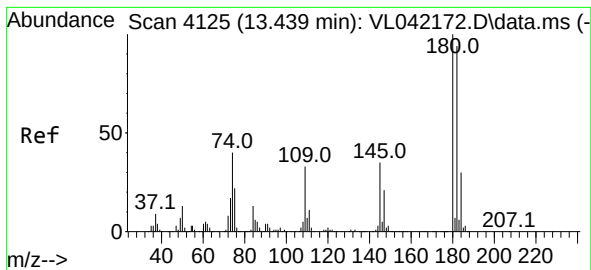
Tgt Ion:128 Resp: 47990
Ion Ratio Lower Upper
128 100
127 11.4 10.8 16.2
129 12.8 9.0 13.4



#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

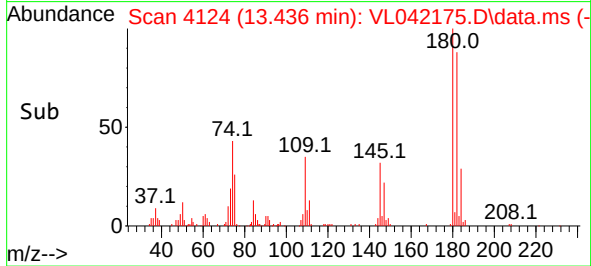
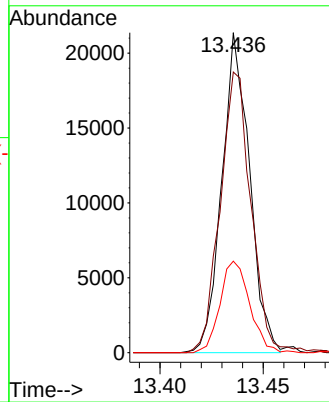
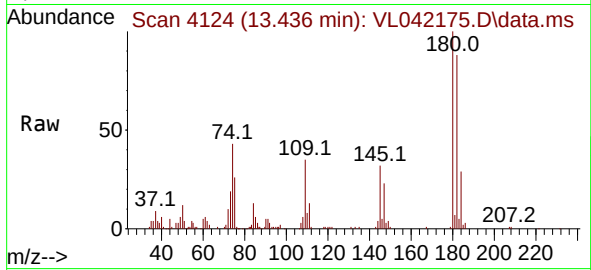




#81
 1,2,4-Trichlorobenzene
 Concen: 0.457 ppbv
 RT: 13.436 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

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
 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

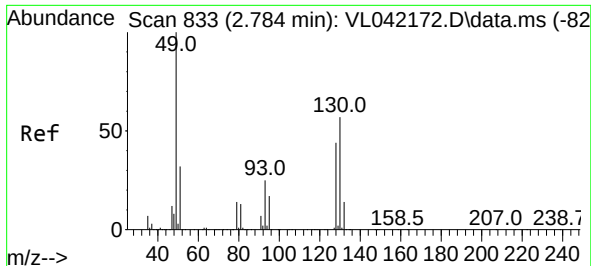
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

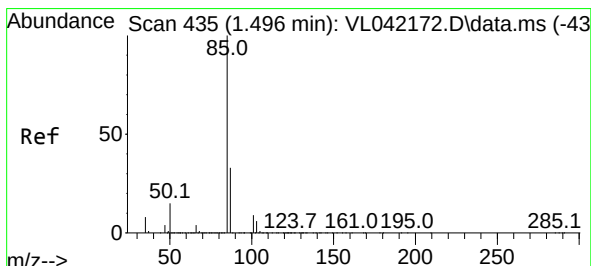
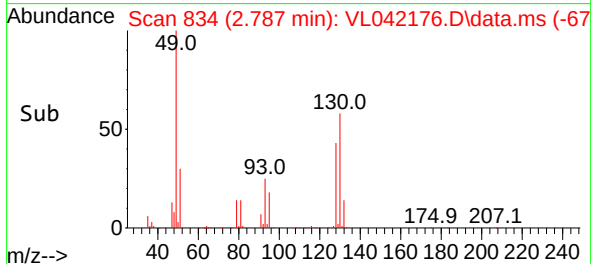
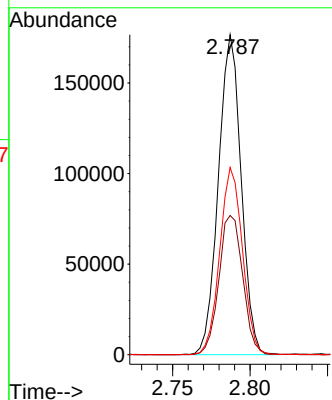
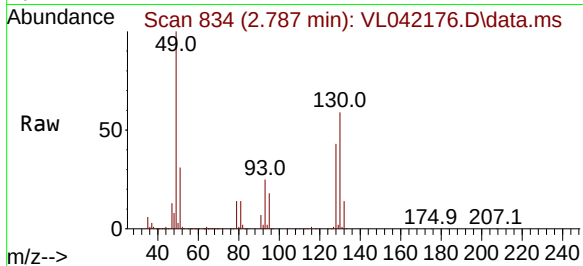




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

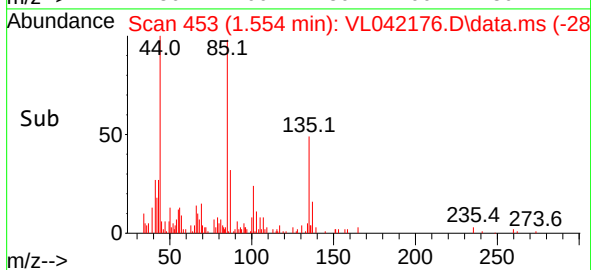
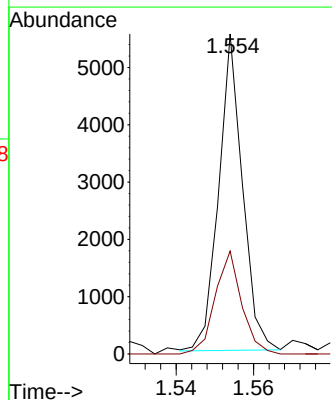
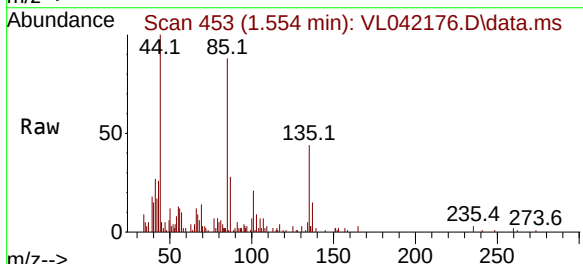
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

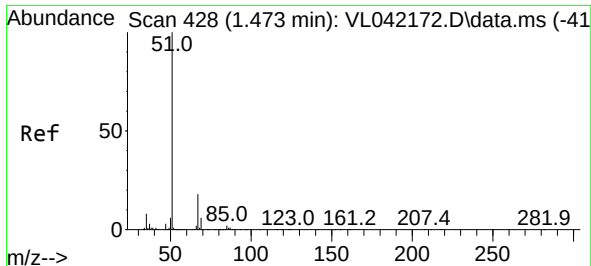
Tgt Ion: 49 Resp: 180740
Ion Ratio Lower Upper
49 100
128 45.6 22.9 68.5
130 58.5 28.8 86.4



#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

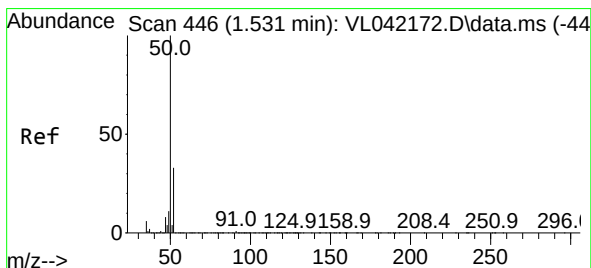
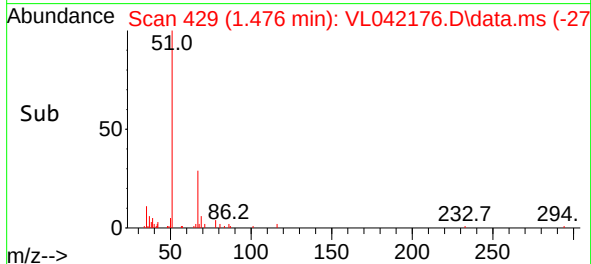
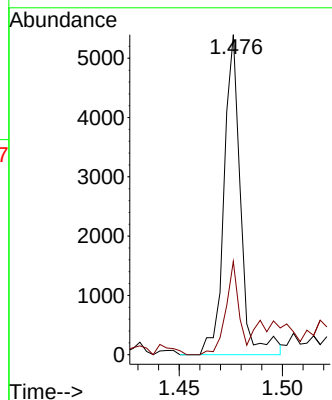
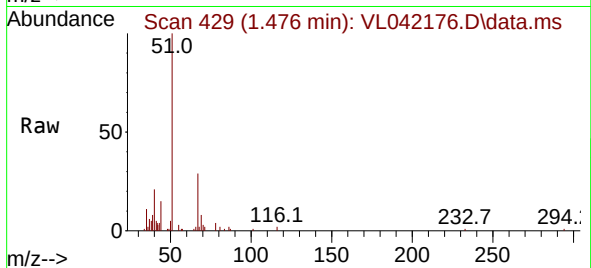




#3
Chlorodifluoromethane
Concen: 0.110 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

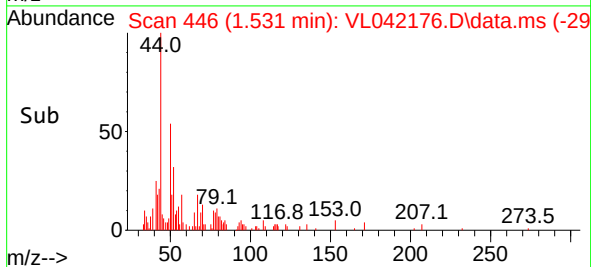
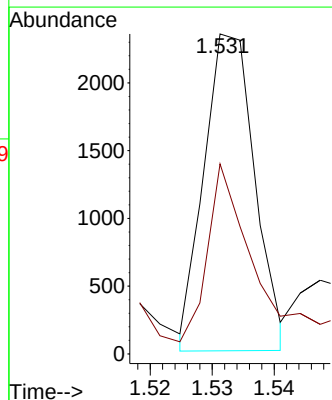
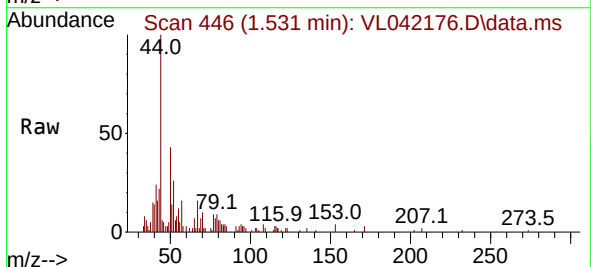
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

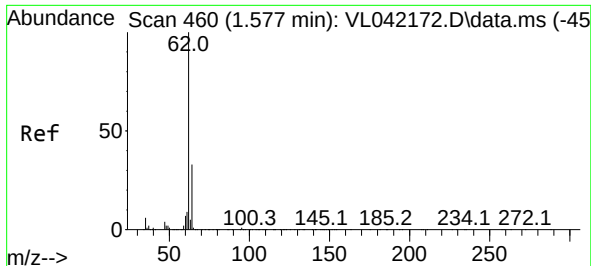
Tgt Ion: 51 Resp: 3006
Ion Ratio Lower Upper
51 100
67 45.8 15.0 22.6#



#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#

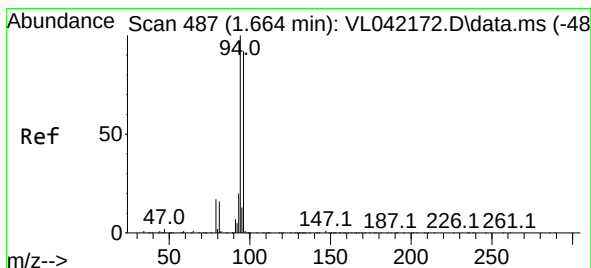
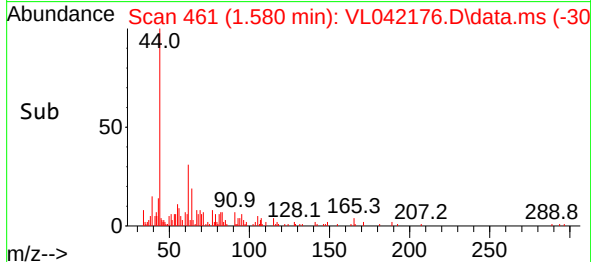
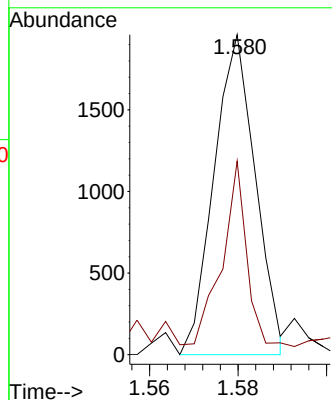
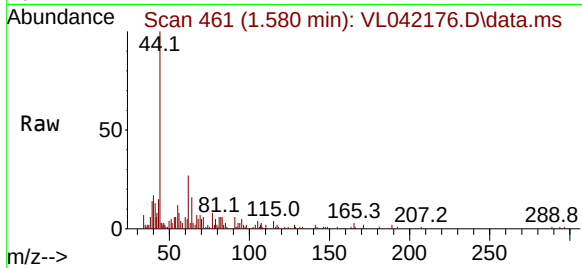




#5
 Vinyl Chloride
 Concen: 0.115 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

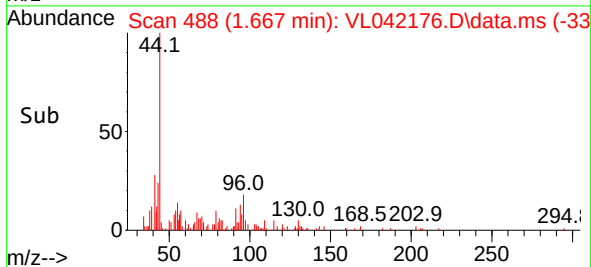
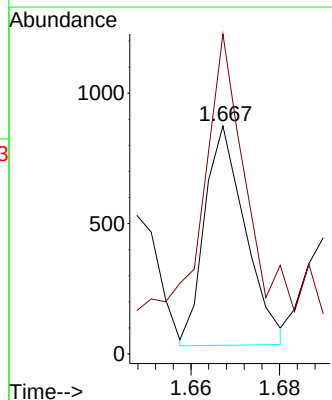
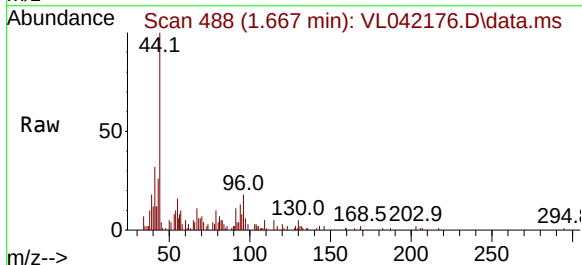
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

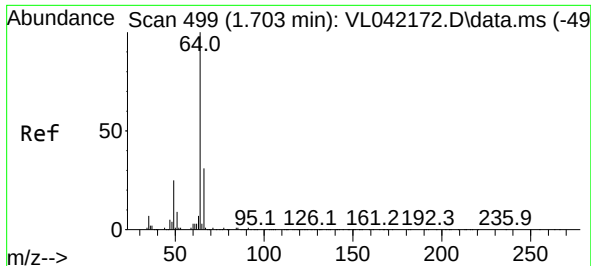
Tgt Ion: 62 Resp: 1274
 Ion Ratio Lower Upper
 62 100
 64 66.4 26.6 40.0#



#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#

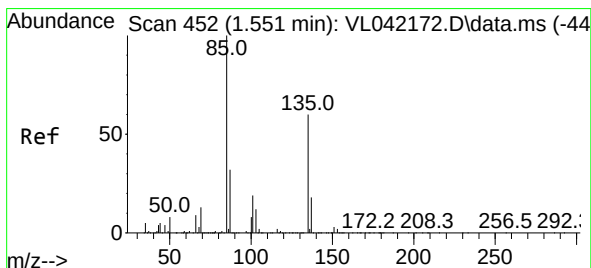
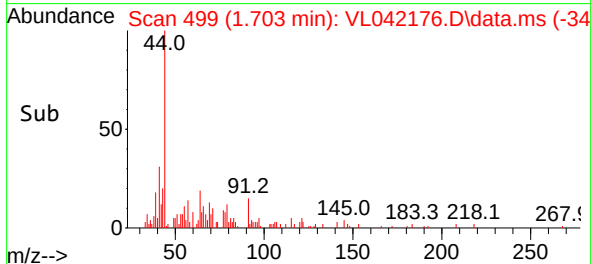
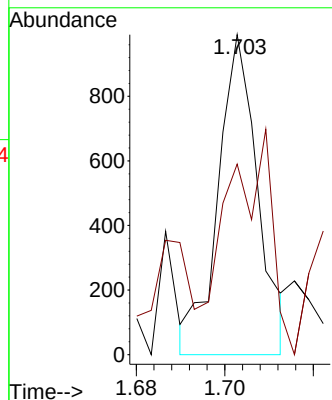
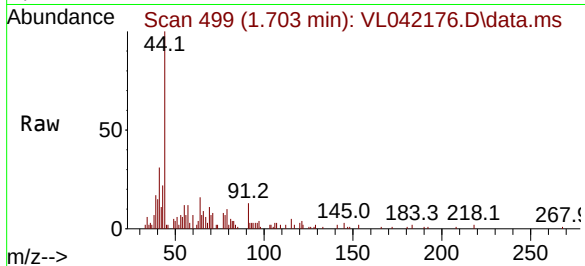




#7
Chloroethane
Concen: 0.141 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

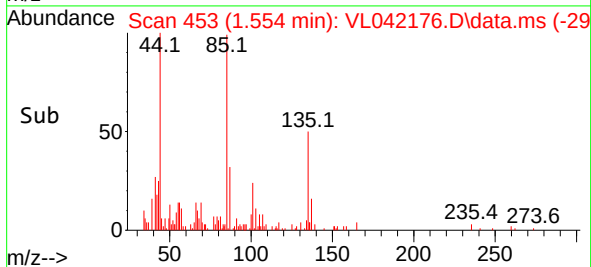
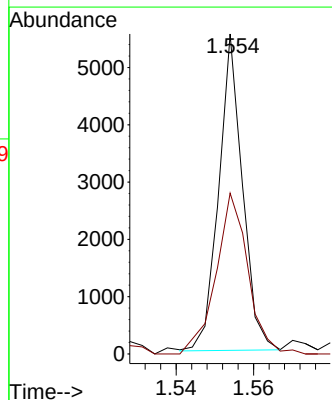
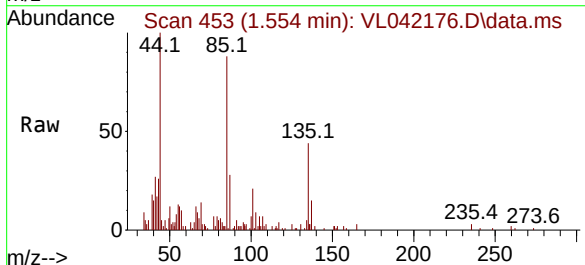
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

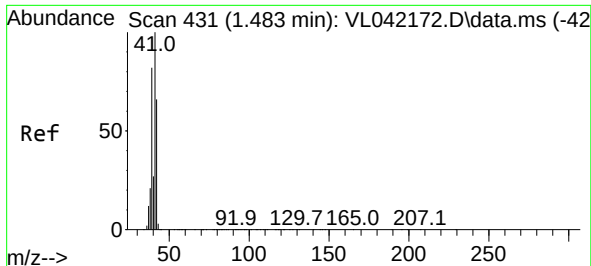
Tgt Ion: 64 Resp: 616
Ion Ratio Lower Upper
64 100
66 59.5 25.2 37.8#



#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 :

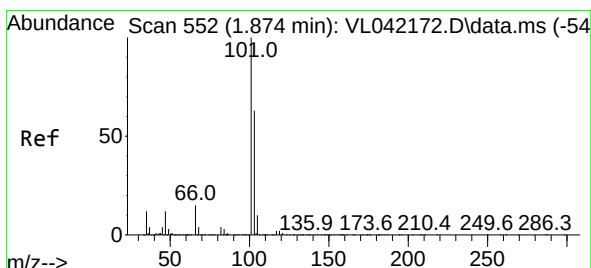
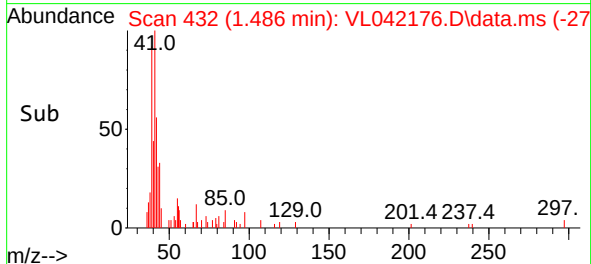
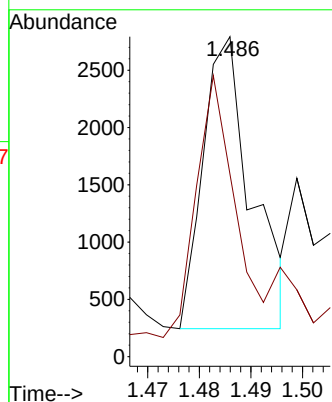
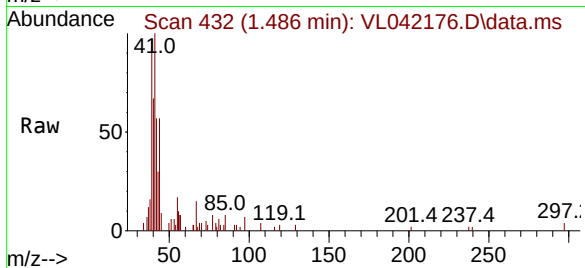
VSTDICC0.1

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

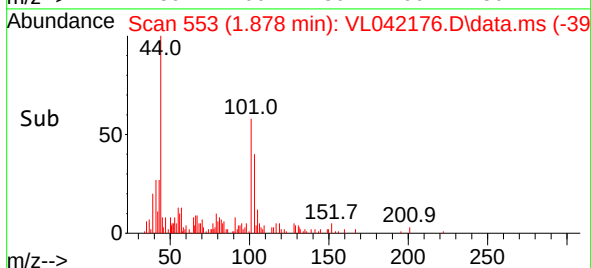
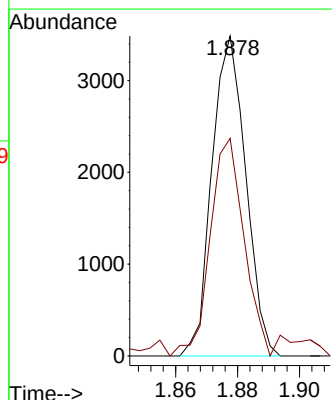
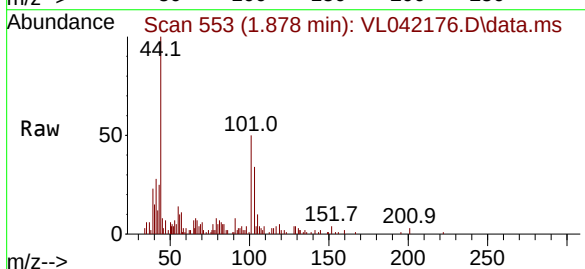
Acq: 27 Mar 2025 10:32

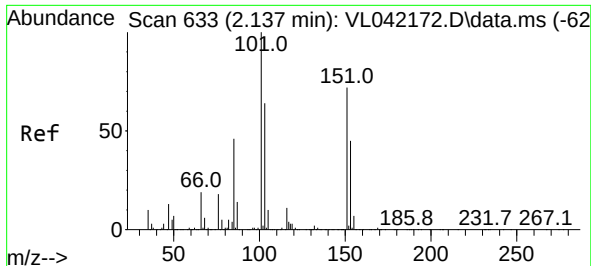
Tgt Ion:101 Resp: 2644

Ion Ratio Lower Upper

101 100

103 64.7 50.2 75.2

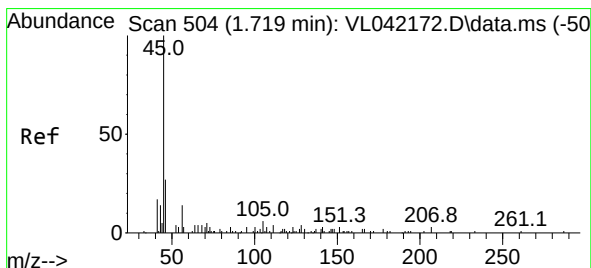
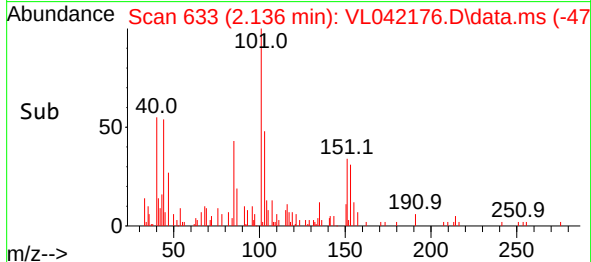
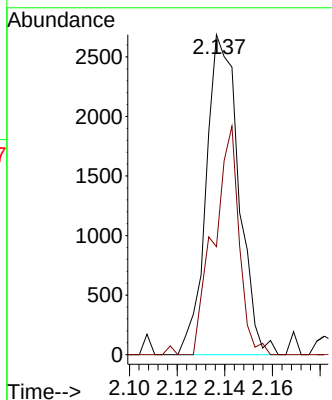
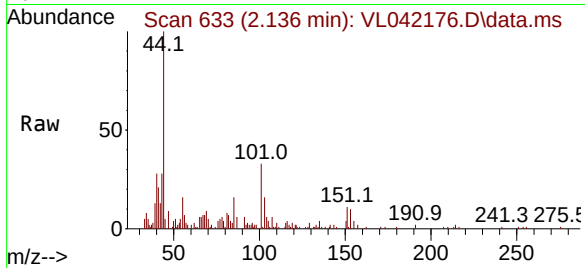




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.120 ppbv
 RT: 2.136 min Scan# 611
 Delta R.T. -0.000 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

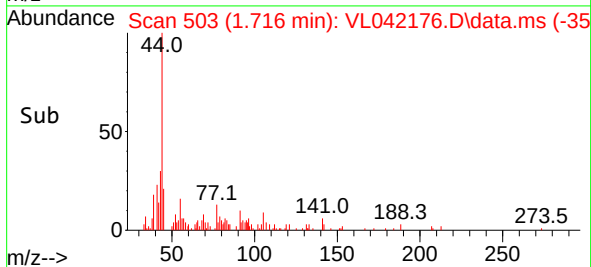
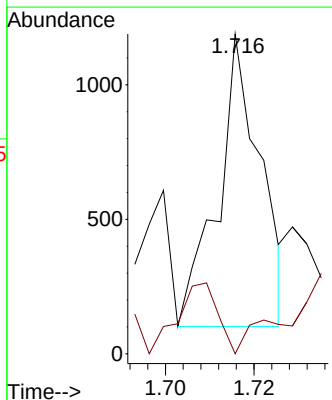
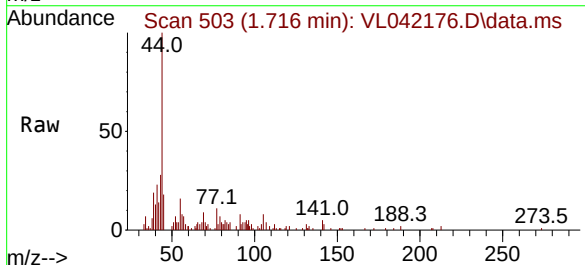
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

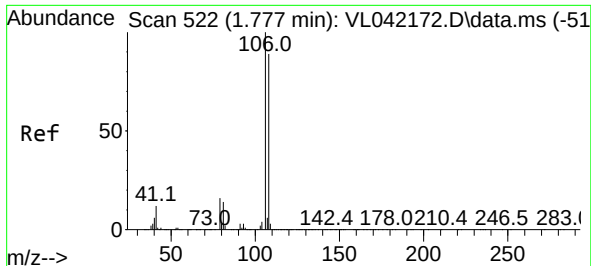
Tgt Ion:101 Resp: 2551
 Ion Ratio Lower Upper
 101 100
 151 55.7 57.1 85.7#



#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

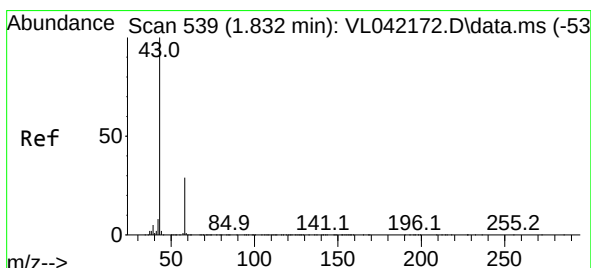
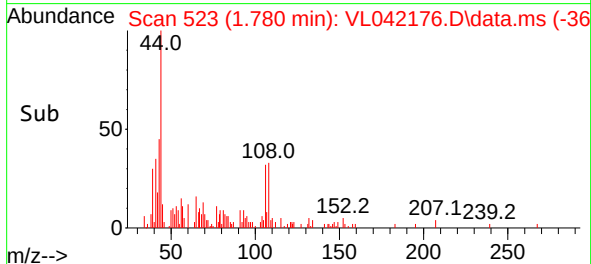
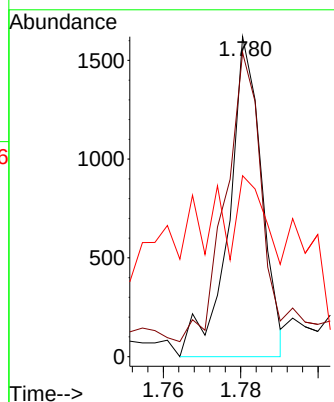
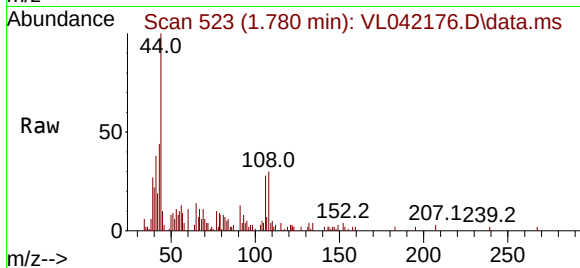
Tgt Ion:108 Resp: 956

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

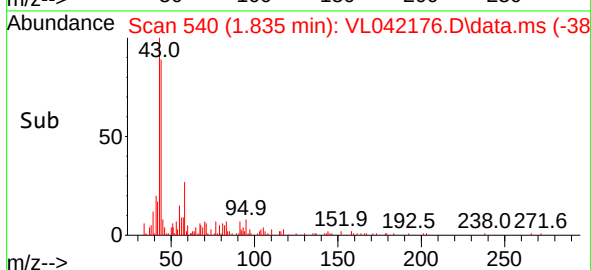
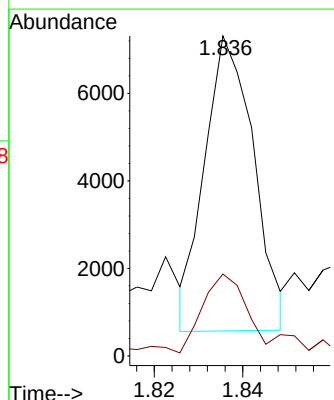
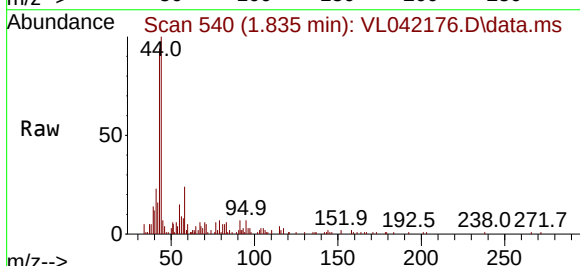
Acq: 27 Mar 2025 10:32

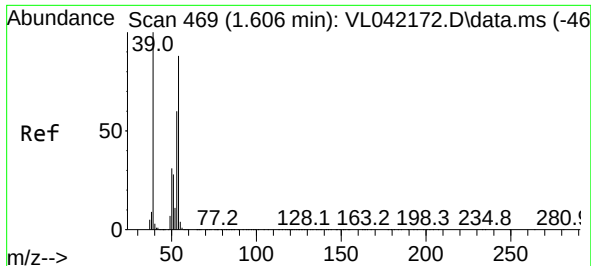
Tgt Ion: 43 Resp: 5179

Ion Ratio Lower Upper

43 100

58 33.1 23.2 34.8

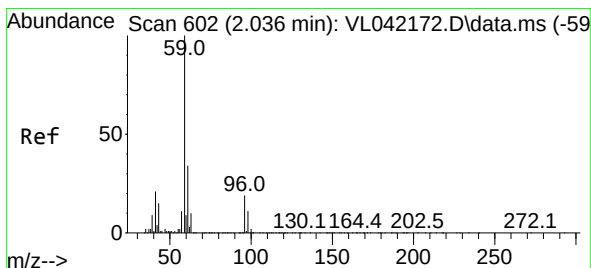
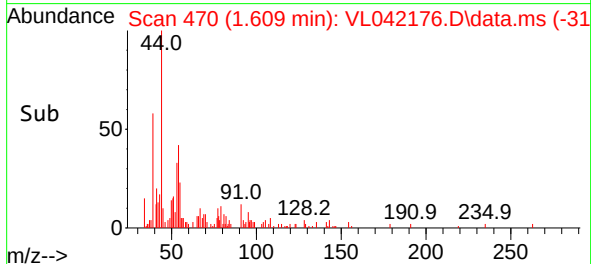
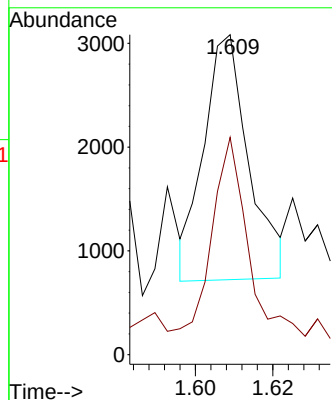
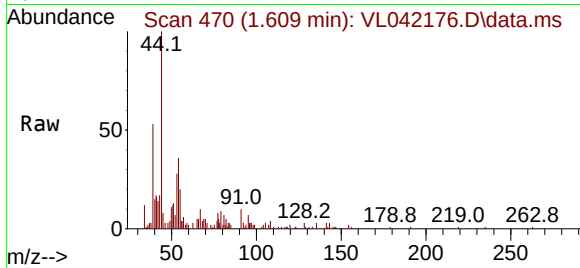




#16
1,3-Butadiene
Concen: 0.168 ppbv
RT: 1.609 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

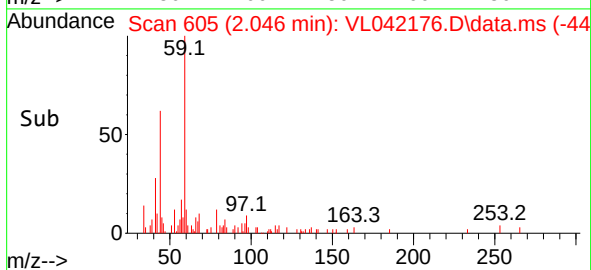
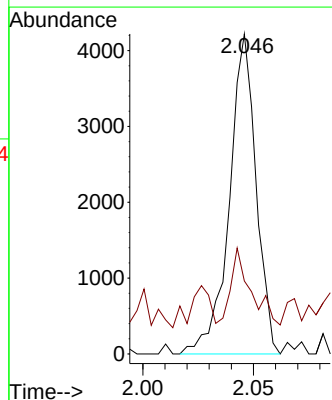
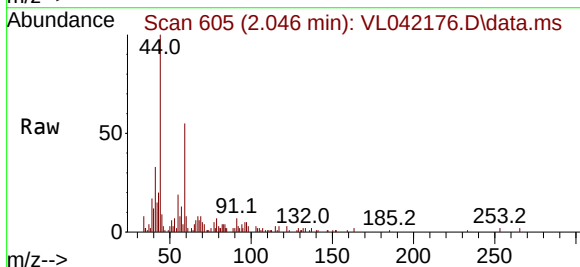
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

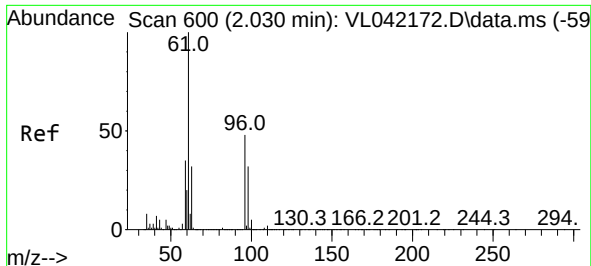
Tgt Ion: 39 Resp: 1912
Ion Ratio Lower Upper
39 100
54 70.7 60.7 91.1



#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#

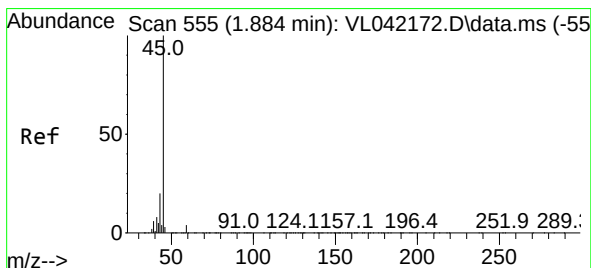
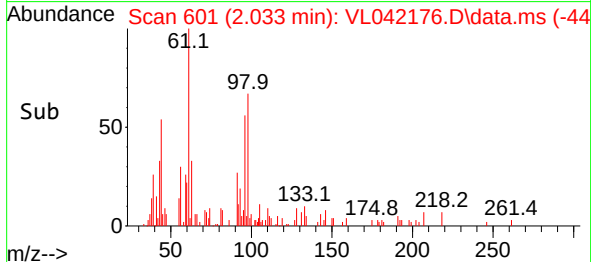
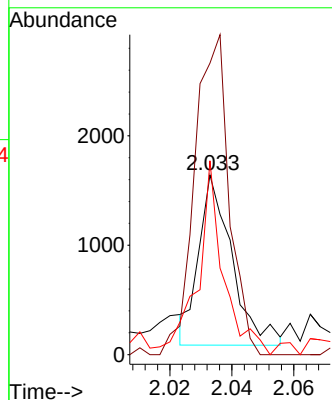
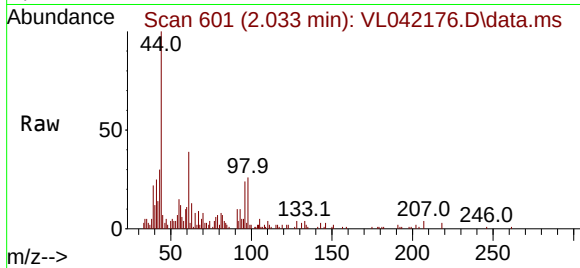




#18
1,1-Dichloroethene
Concen: 0.116 ppbv
RT: 2.033 min Scan# 600
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

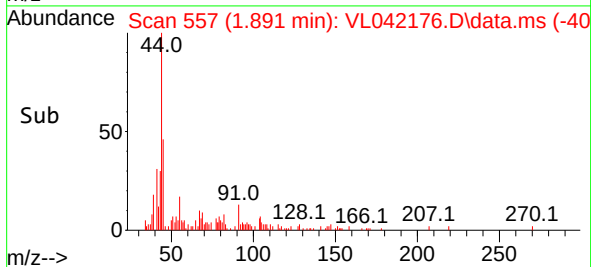
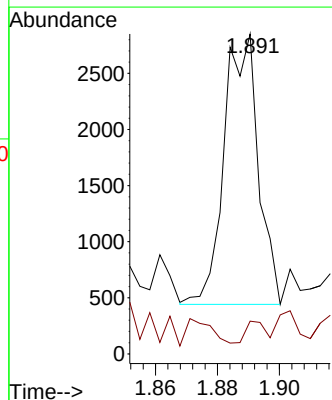
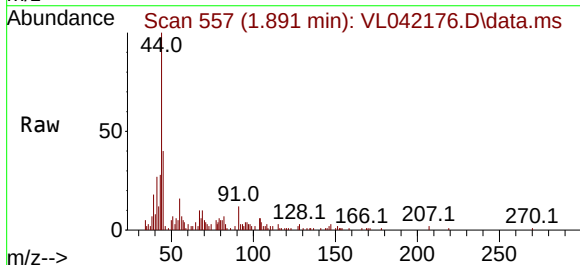
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

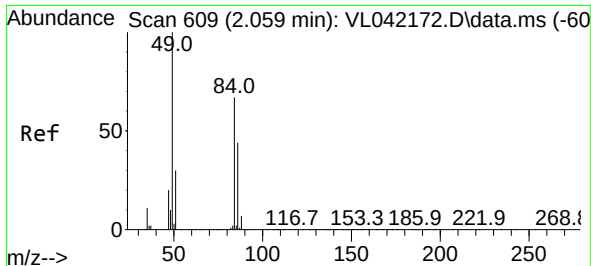
Tgt Ion: 96 Resp: 1155
Ion Ratio Lower Upper
96 100
61 179.9 167.6 251.4
98 112.6 53.5 80.3#



#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

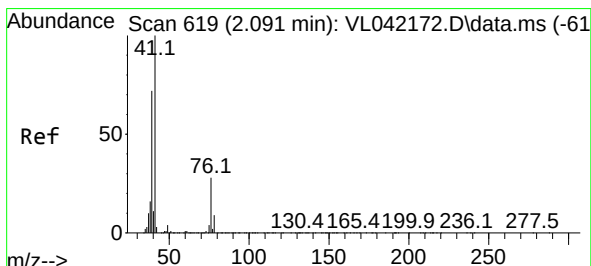
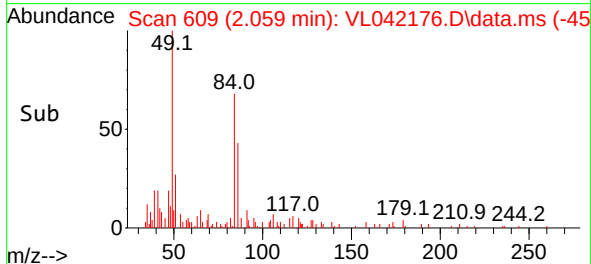
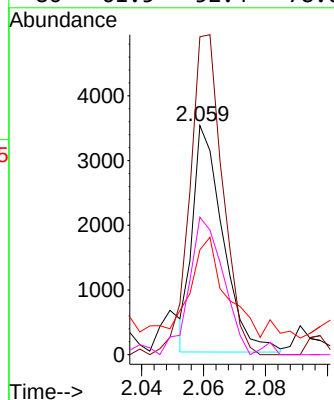
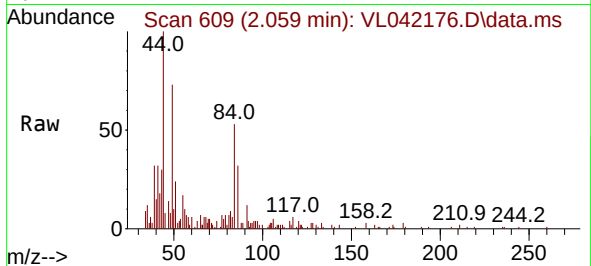
Ion Ratio Lower Upper

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

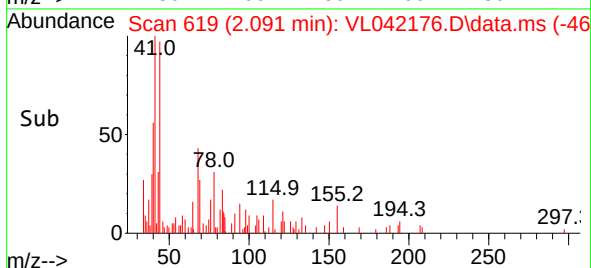
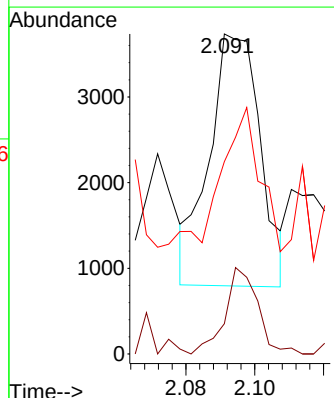
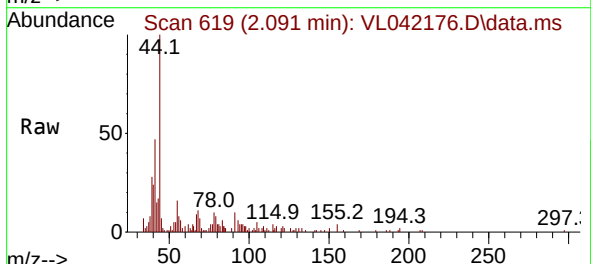
Tgt Ion: 41 Resp: 3040

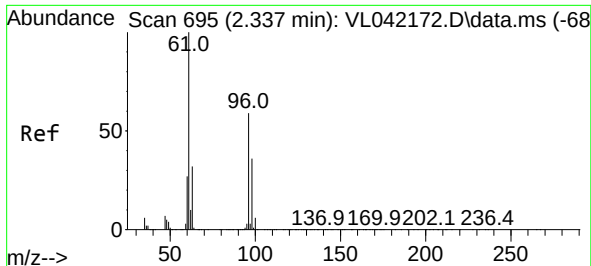
Ion Ratio Lower Upper

41 100

76 21.8 24.1 36.1#

39 98.7 61.1 91.7#

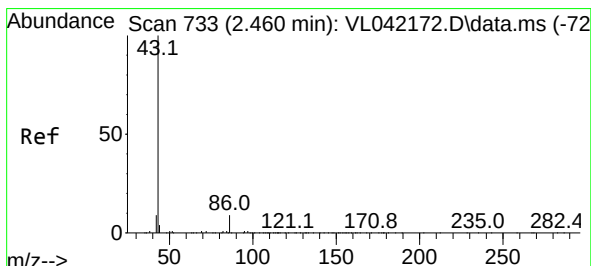
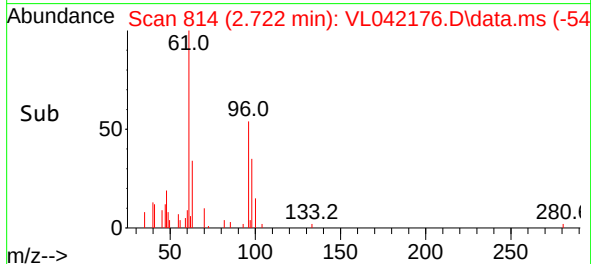
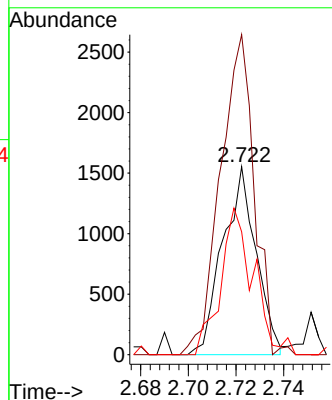
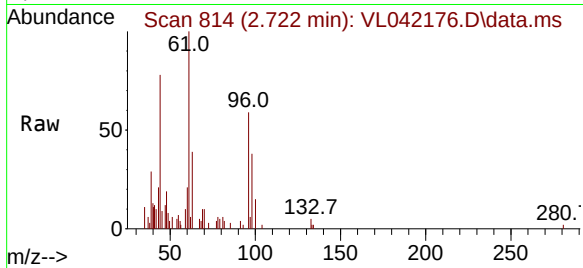




#22
trans-1,2-Dichloroethene
Concen: 0.130 ppbv
RT: 2.722 min Scan# 814
Delta R.T. 0.385 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

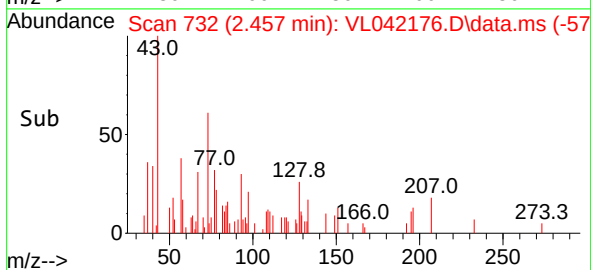
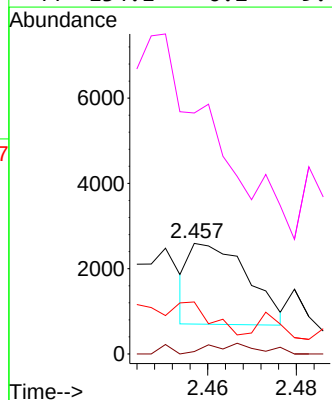
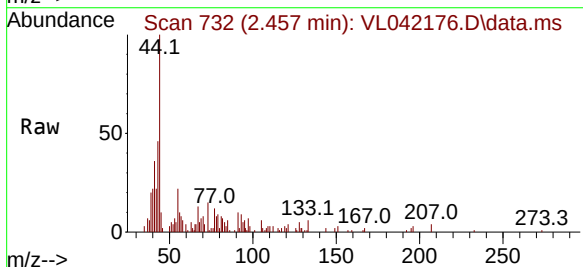
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

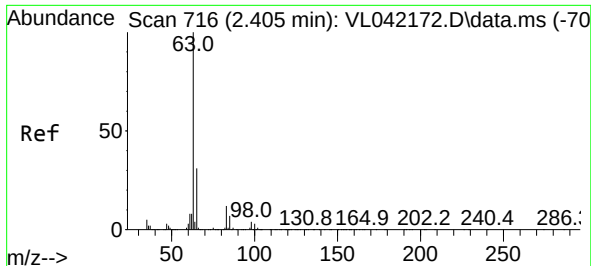
Tgt Ion: 96 Resp: 1512
Ion Ratio Lower Upper
96 100
61 170.3 136.6 204.8
98 65.4 49.4 74.2



#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#

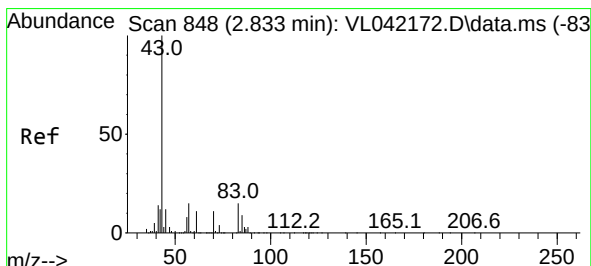
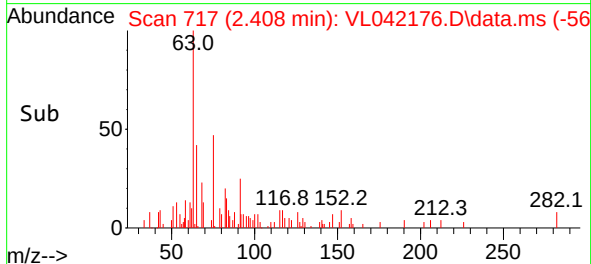
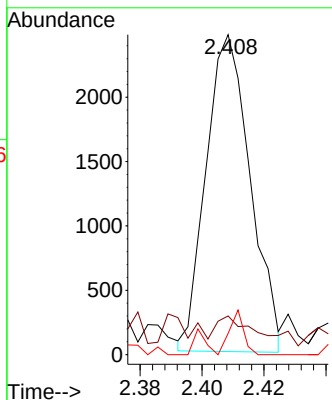
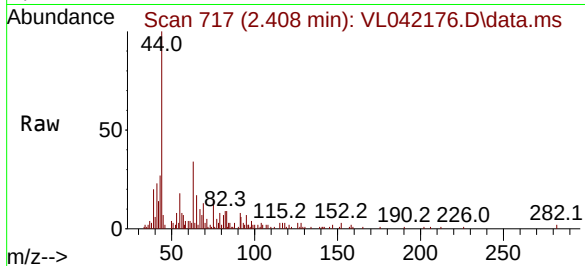




#24
1,1-Dichloroethane
Concen: 0.114 ppbv
RT: 2.408 min Scan# 716
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

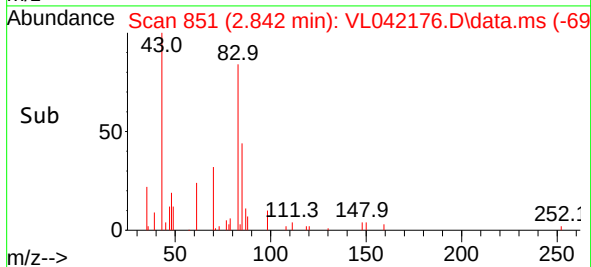
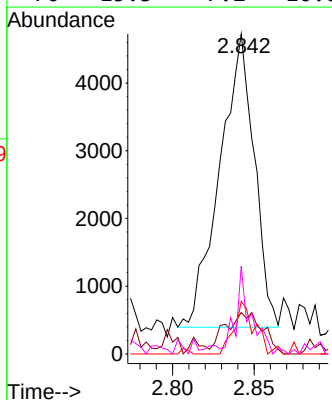
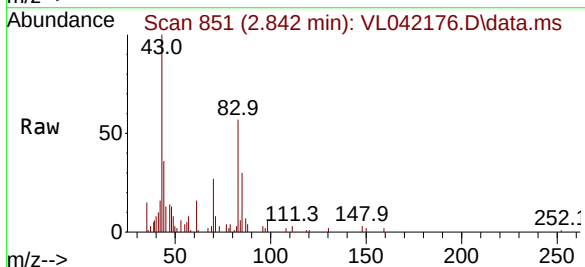
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

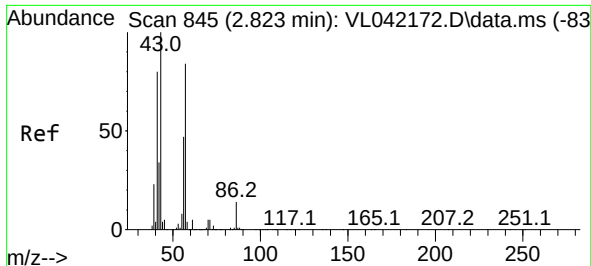
Tgt Ion: 63	Resp: 2446
Ion Ratio	Lower Upper
63 100	
98 6.3	2.3 6.8
100 6.9	1.6 4.7#



#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#

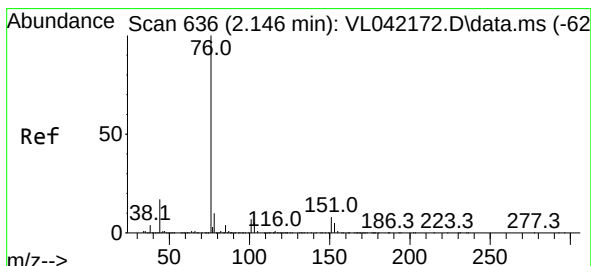
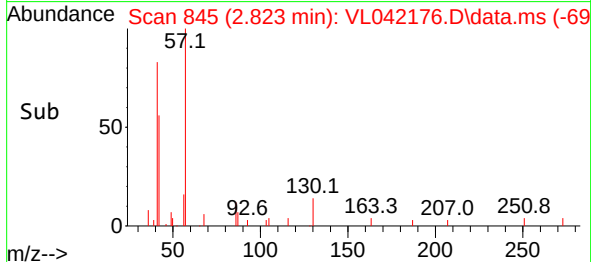
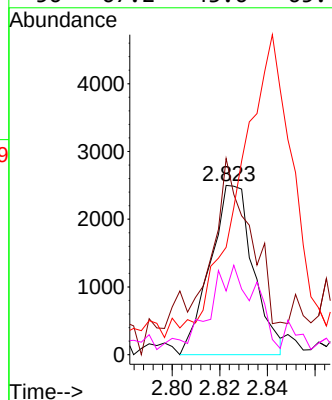
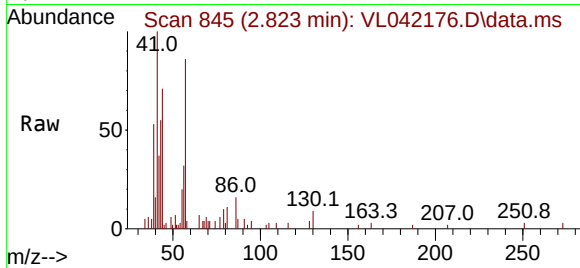




#26
Hexane
Concen: 0.123 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

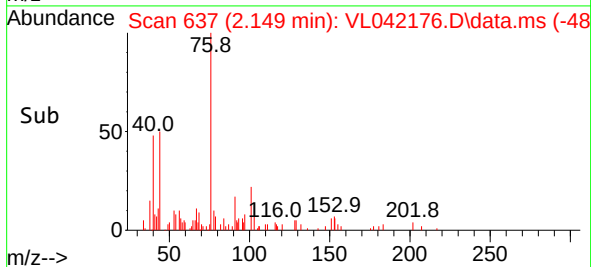
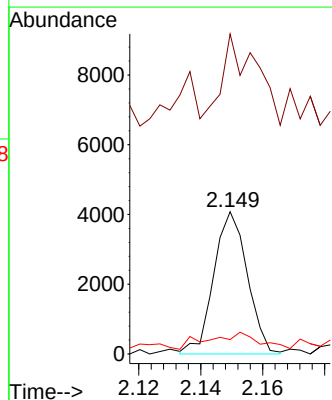
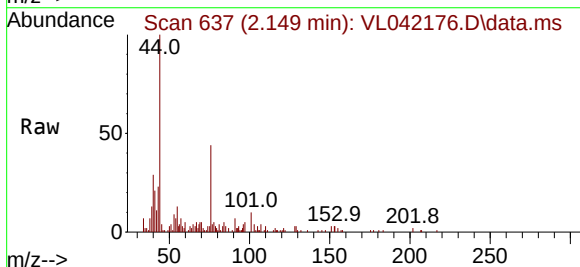
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

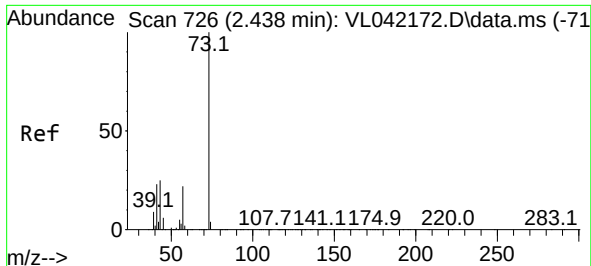
Tgt Ion:	57	Resp:	3126
Ion	Ratio	Lower	Upper
57	100		
41	96.0	76.6	114.8
43	0.0	207.8	311.8#
56	67.2	43.6	65.4#



#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#

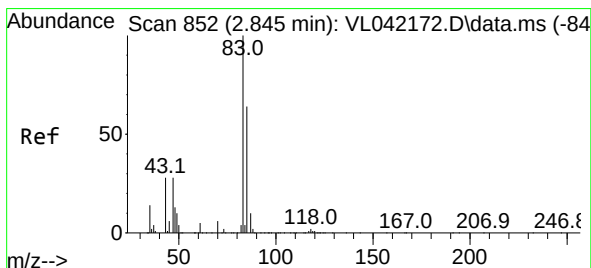
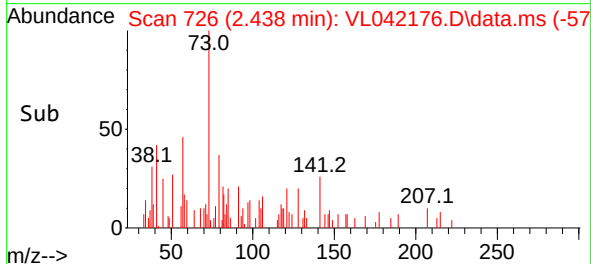
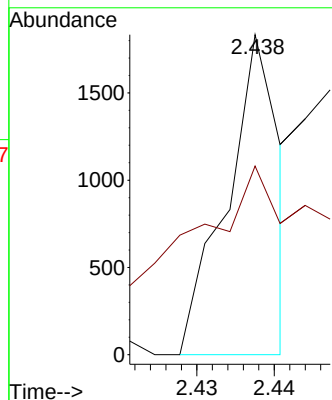
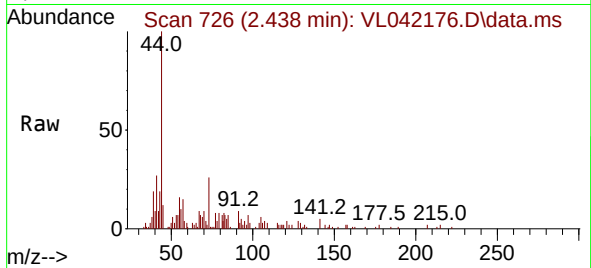




#28
Methyl tert-Butyl Ether
Concen: 0.055 ppbv
RT: 2.438 min Scan# 71
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

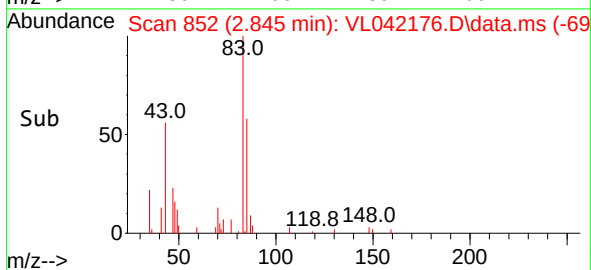
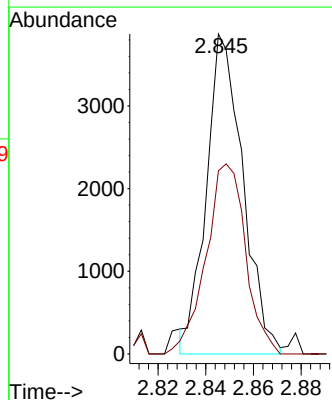
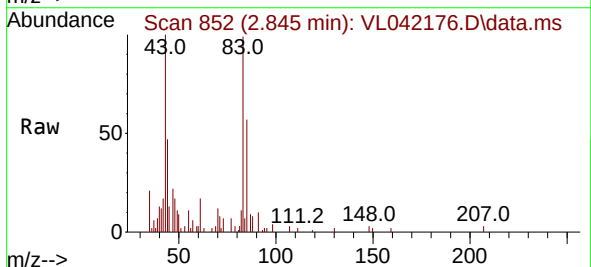
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

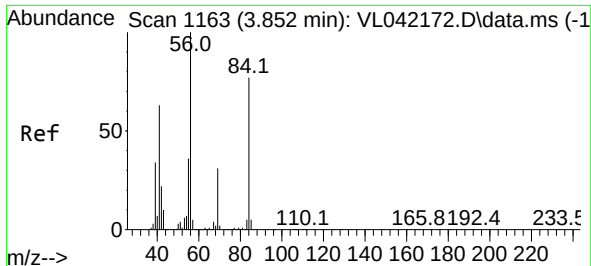
Tgt Ion: 73 Resp: 875
Ion Ratio Lower Upper
73 100
57 0.0 20.5 30.7#



#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

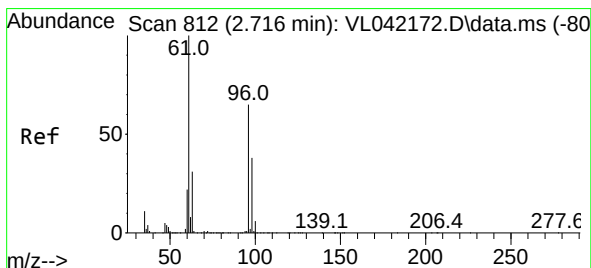
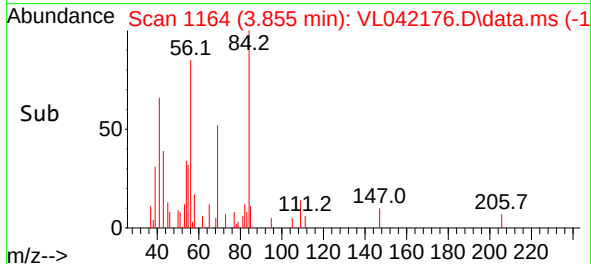
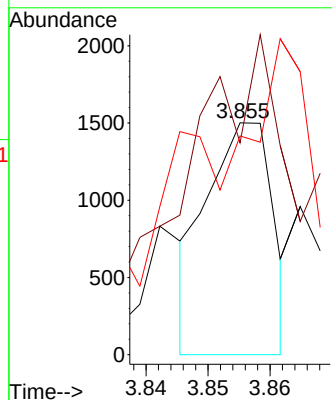
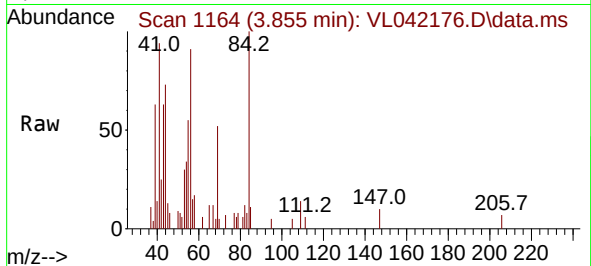




#30
Cyclohexane
Concen: 0.051 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

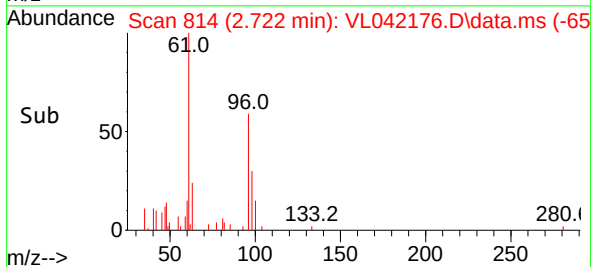
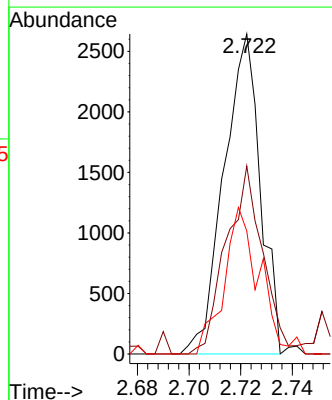
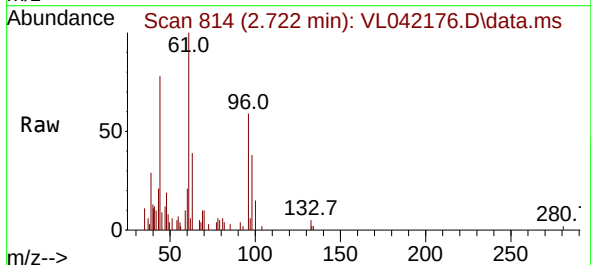
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

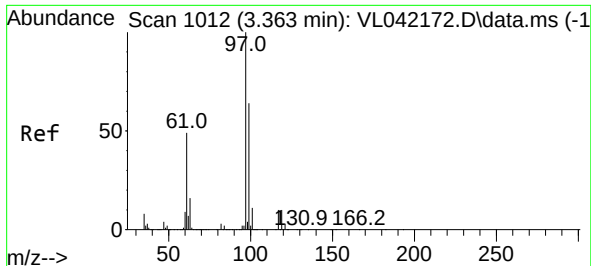
Tgt Ion: 84 Resp: 1113
Ion Ratio Lower Upper
84 100
56 0.0 102.8 154.2#
41 0.0 66.5 99.7#



#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

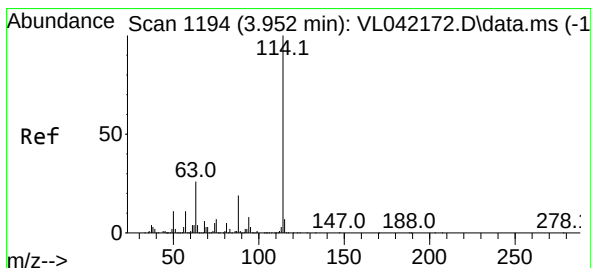
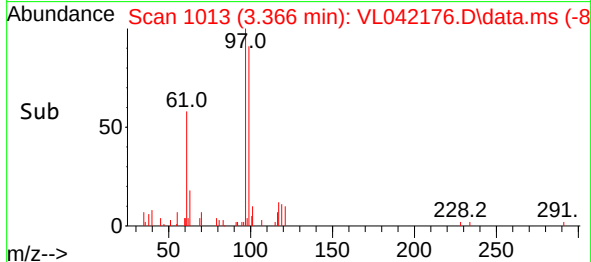
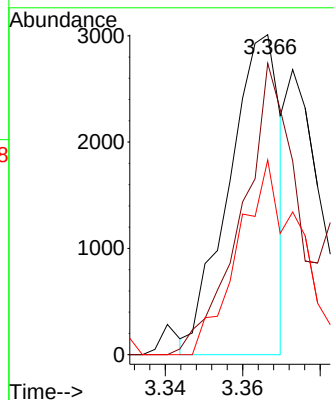
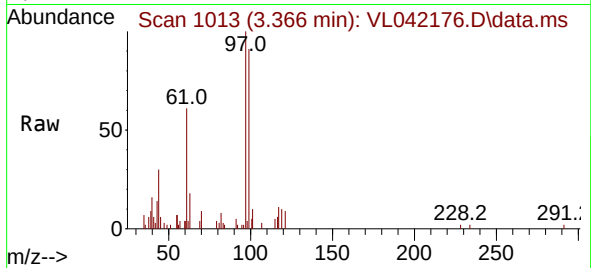




#32
 1,1,1-Trichloroethane
 Concen: 0.065 ppbv
 RT: 3.366 min Scan# 1012
 Delta R.T. 0.003 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

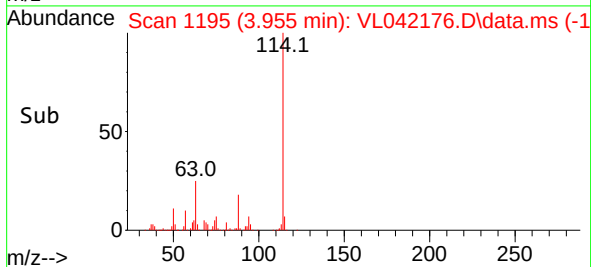
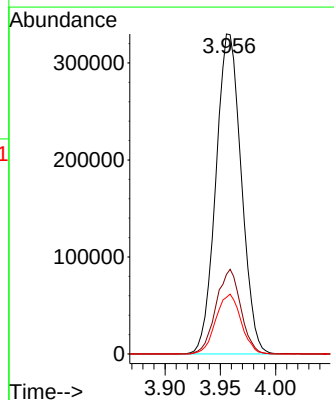
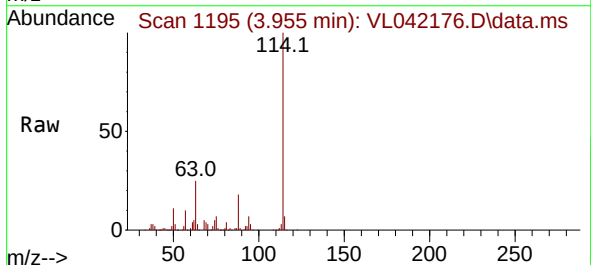
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

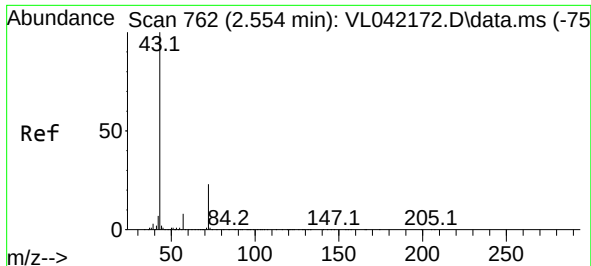
Tgt Ion: 97 Resp: 2773
 Ion Ratio Lower Upper
 97 100
 99 111.5 51.5 77.3#
 61 73.8 38.7 58.1#



#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

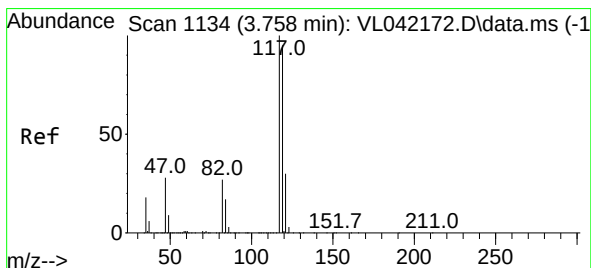
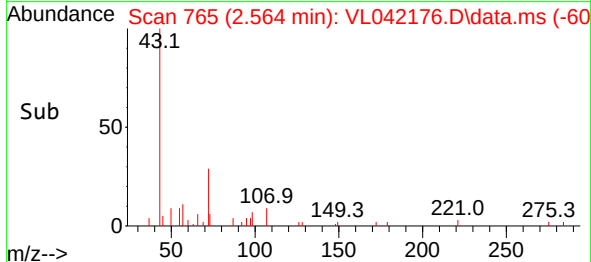
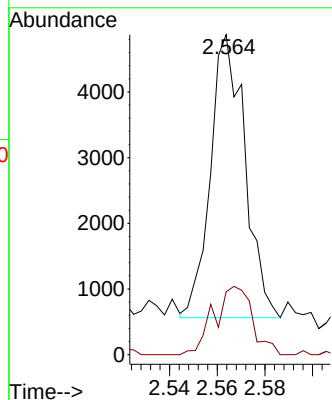
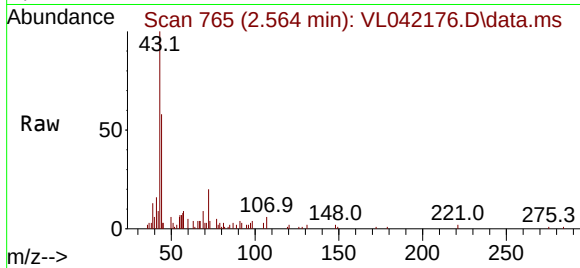




#34
2-Butanone
Concen: 0.113 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

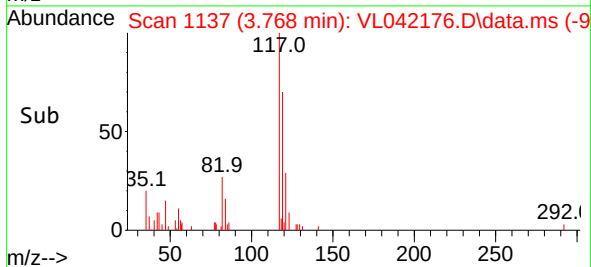
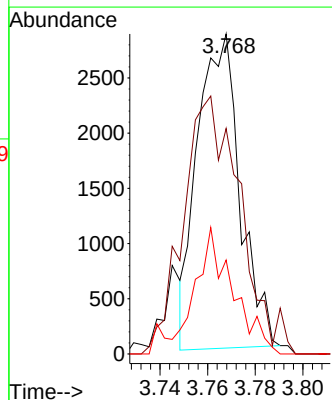
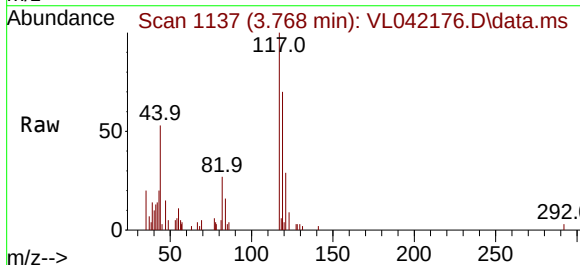
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

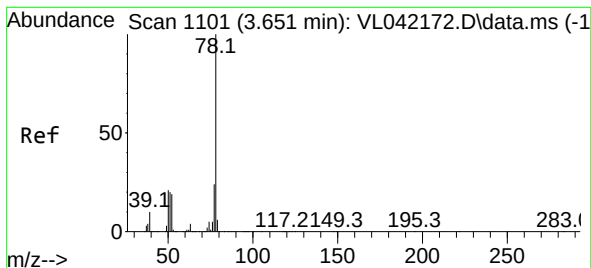
Tgt Ion: 43 Resp: 4331
Ion Ratio Lower Upper
43 100
72 27.0 18.2 27.2



#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

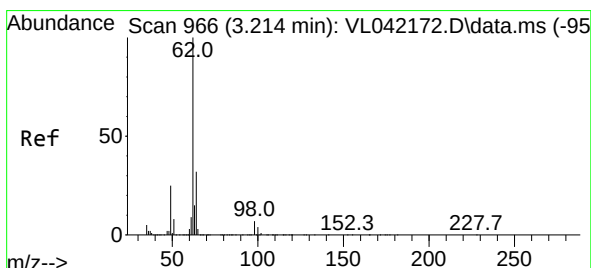
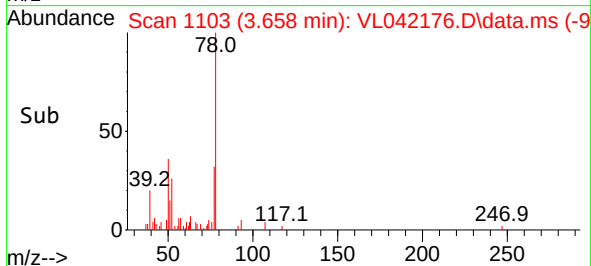
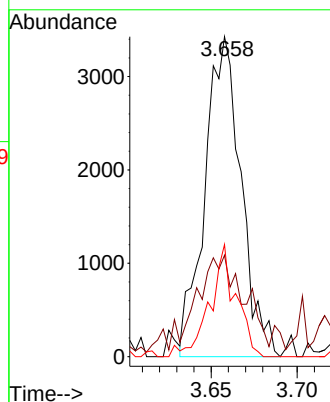
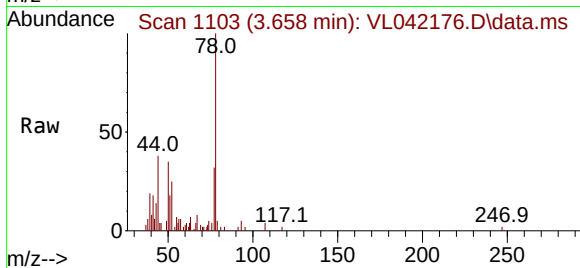
Tgt Ion: 78 Resp: 5031

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

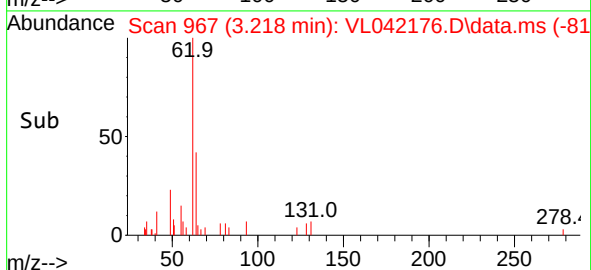
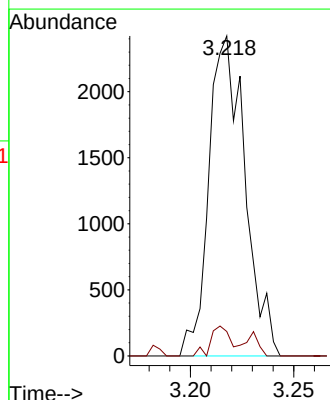
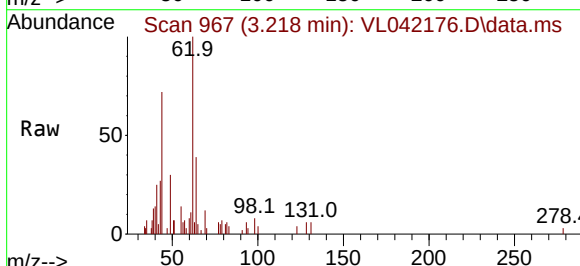
Acq: 27 Mar 2025 10:32

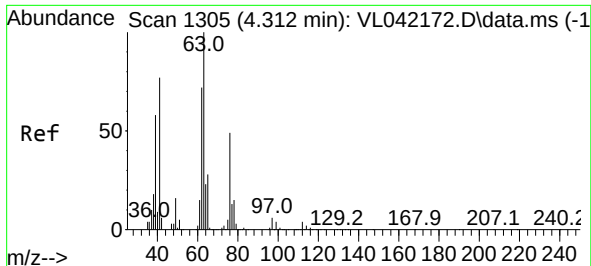
Tgt Ion: 62 Resp: 2942

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

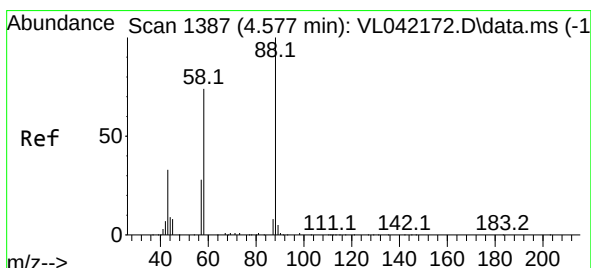
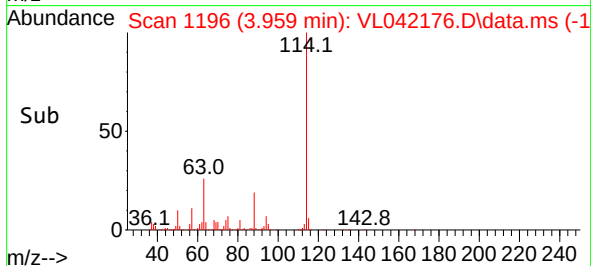
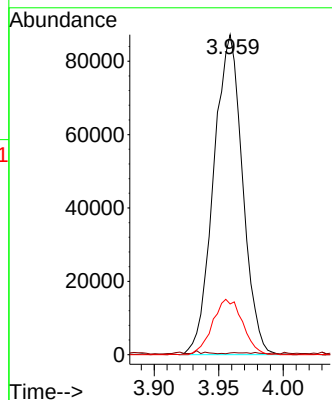
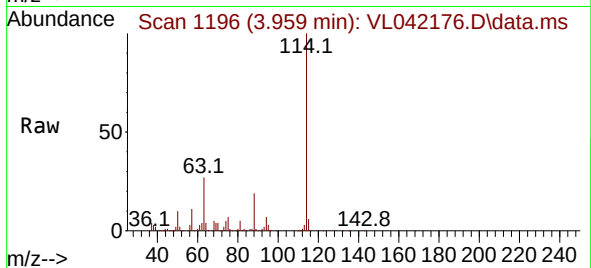
Tgt Ion: 63 Resp: 135792

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

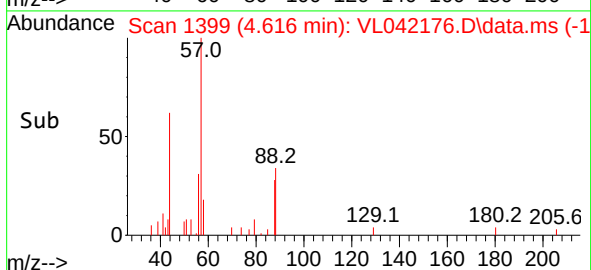
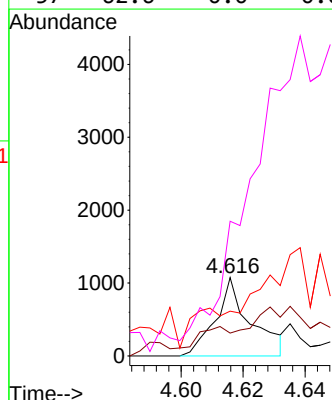
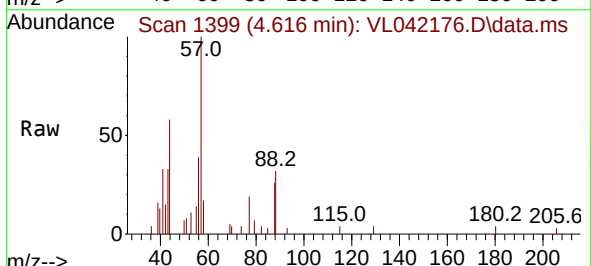
Ion Ratio Lower Upper

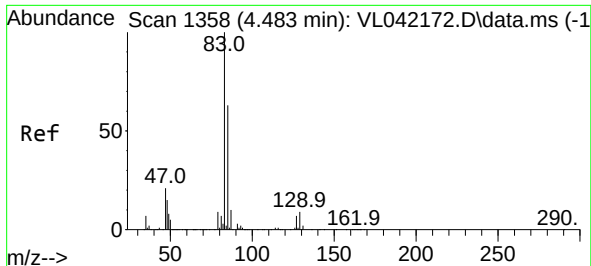
88 100

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

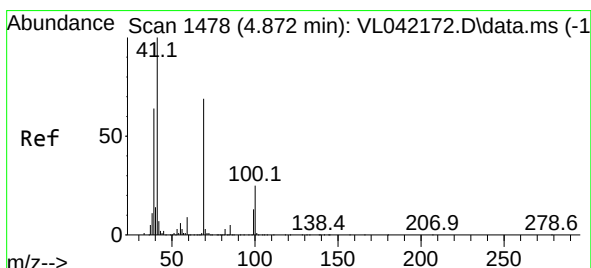
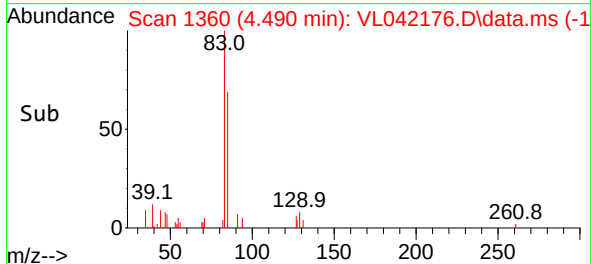
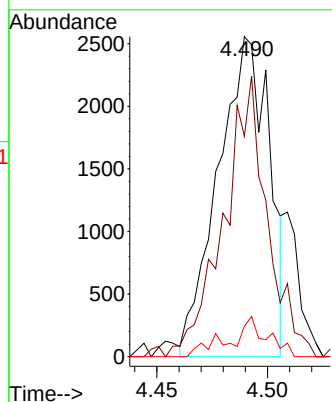
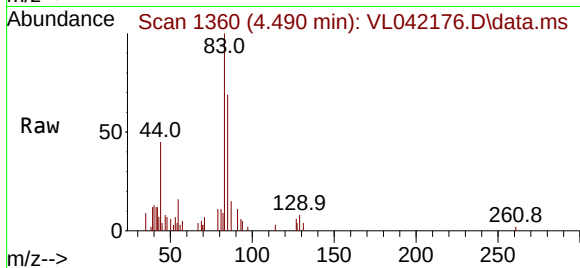
Tgt Ion: 83 Resp: 4103

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

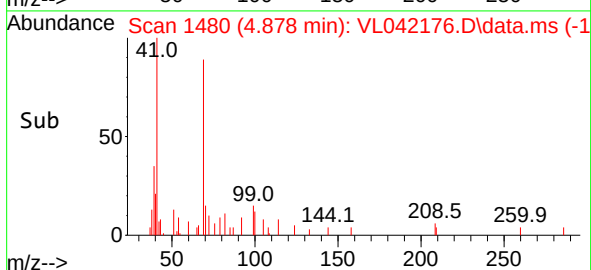
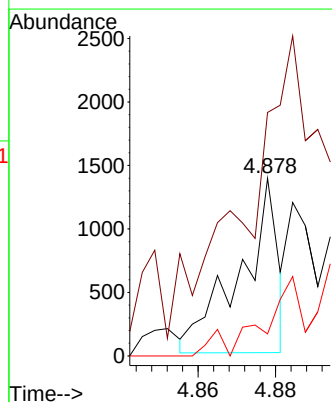
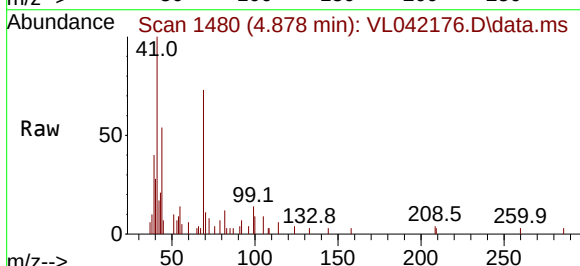
Tgt Ion: 69 Resp: 930

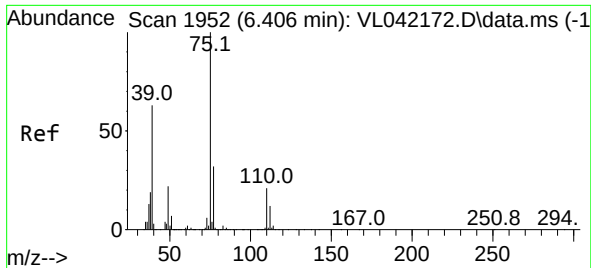
Ion Ratio Lower Upper

69 100

41 0.0 123.8 185.6#

100 0.0 28.4 42.6#

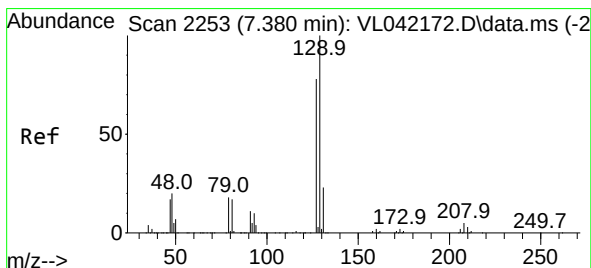
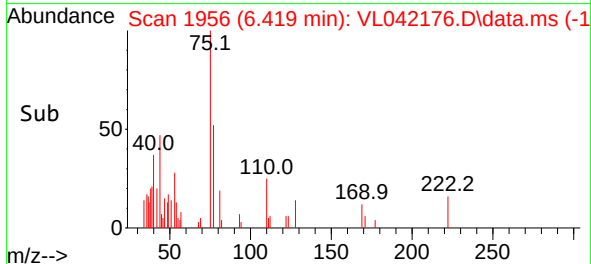
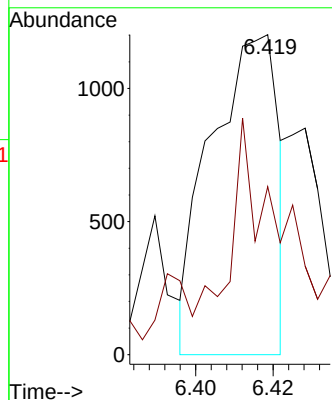
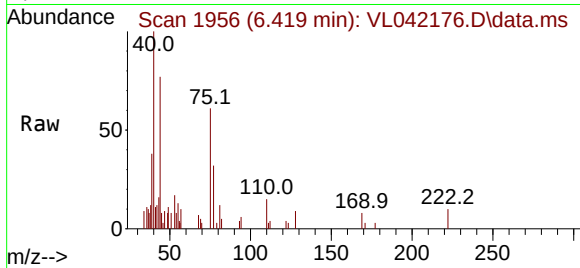




#45
t-1,3-Dichloropropene
Concen: 0.061 ppbv
RT: 6.419 min Scan# 1956
Delta R.T. 0.013 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

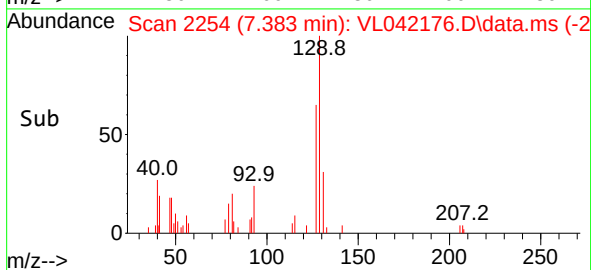
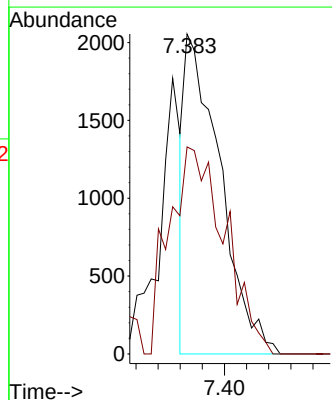
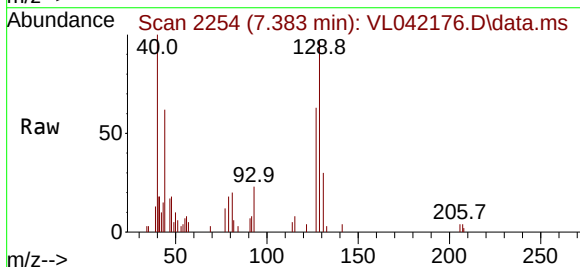
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

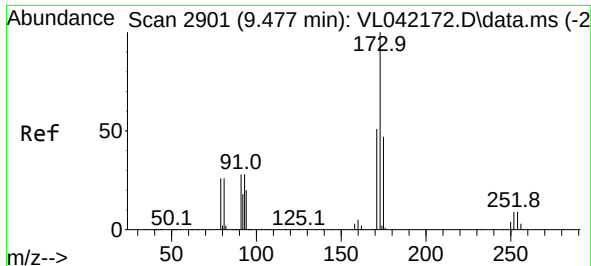
Tgt Ion: 75 Resp: 1449
Ion Ratio Lower Upper
75 100
77 52.5 26.0 39.0#



#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

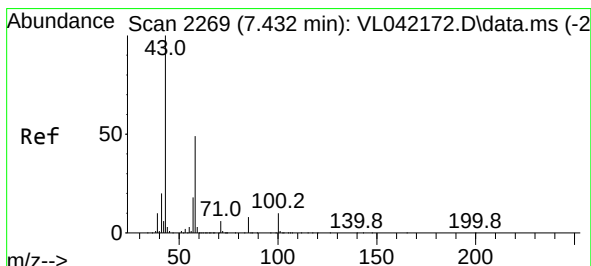
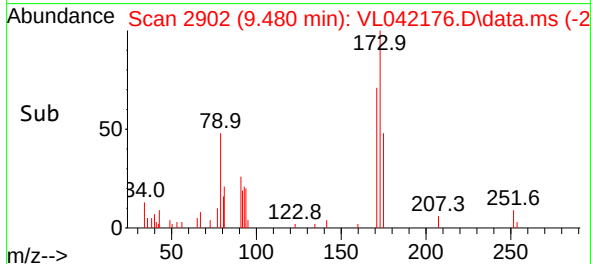
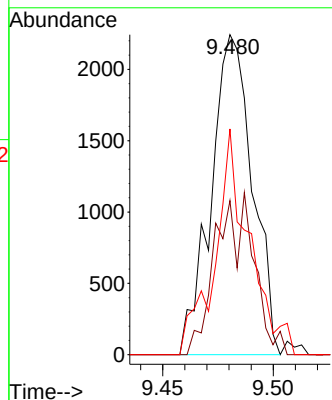
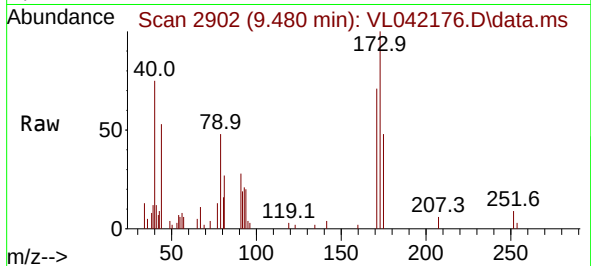




#49
Bromoform
Concen: 0.095 ppbv
RT: 9.480 min Scan# 2901
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

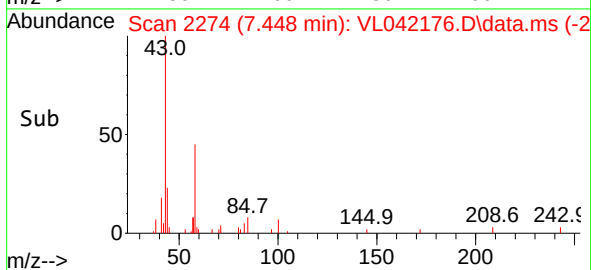
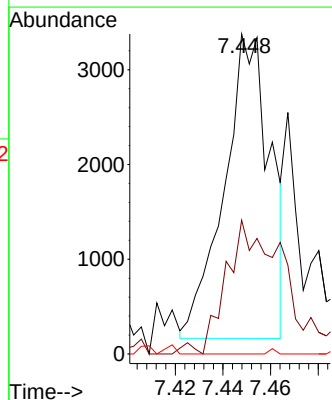
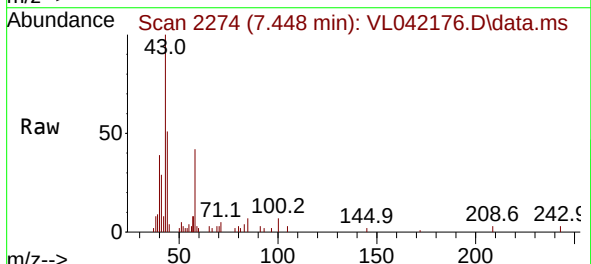
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

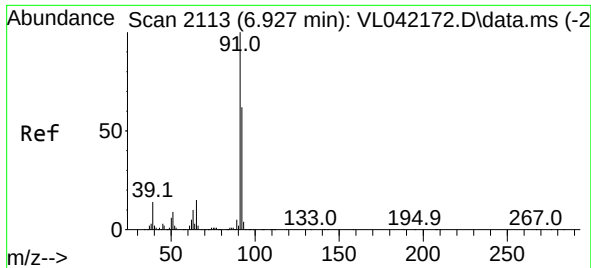
Tgt Ion:173 Resp: 2928
Ion Ratio Lower Upper
173 100
175 46.4 38.6 57.8
171 58.1 41.8 62.6



#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#

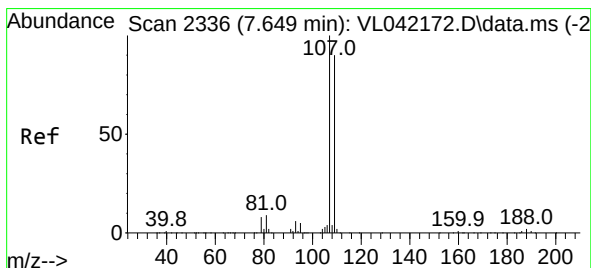
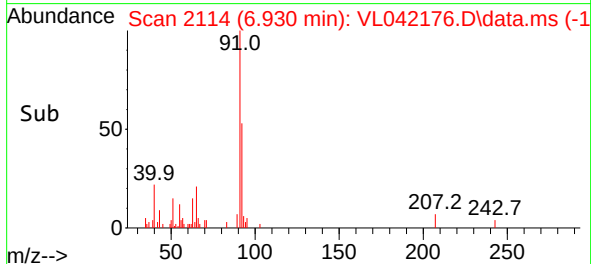
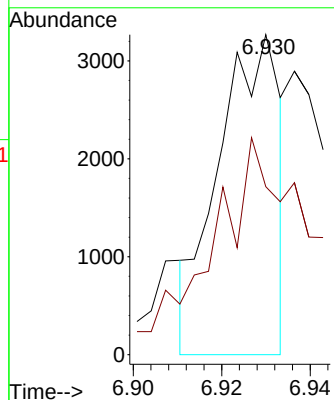
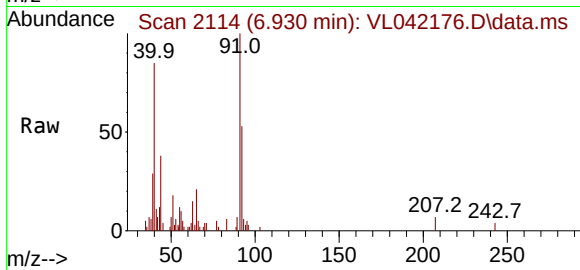




#53
Toluene
Concen: 0.051 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

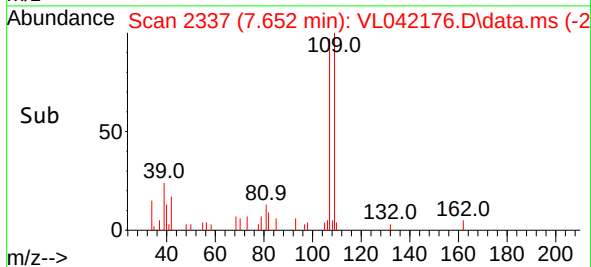
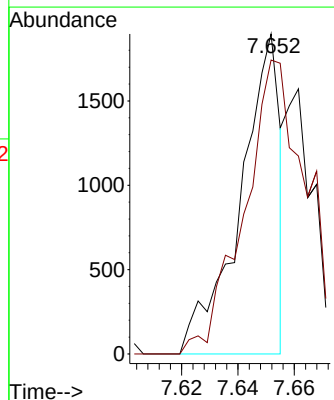
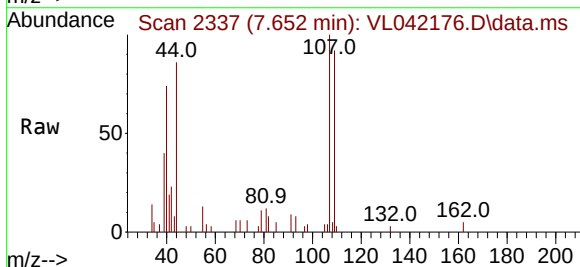
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

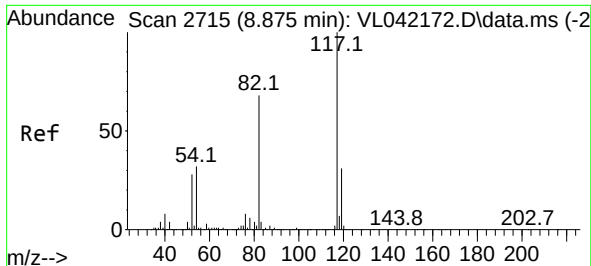
Tgt Ion: 91 Resp: 3144
Ion Ratio Lower Upper
91 100
92 117.7 48.4 72.6#



#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

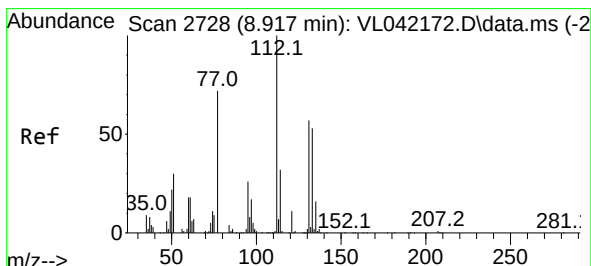
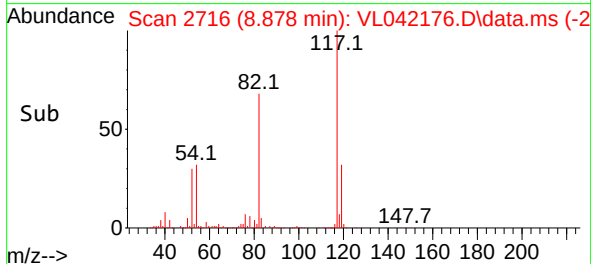
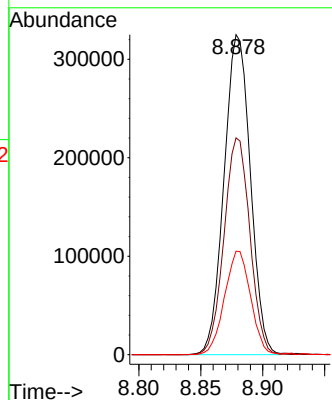
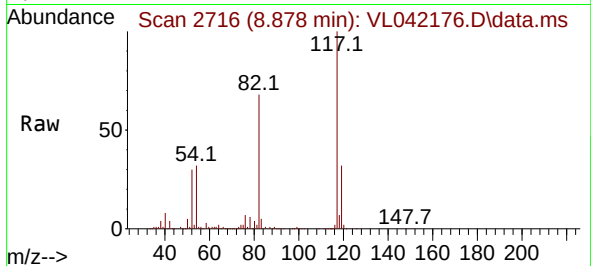




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

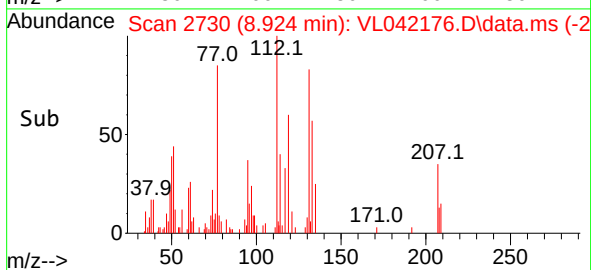
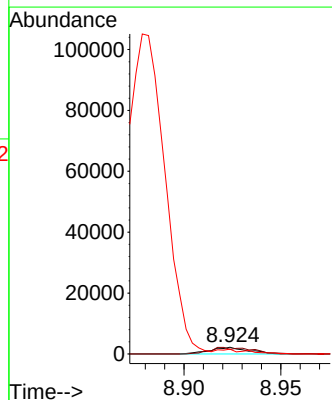
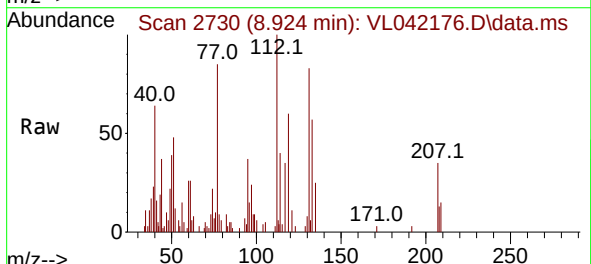
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.1

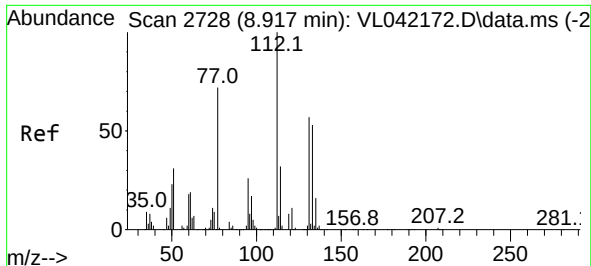
Tgt Ion:117 Resp: 481506
Ion Ratio Lower Upper
117 100
82 66.7 55.8 83.6
119 32.3 25.5 38.3



#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

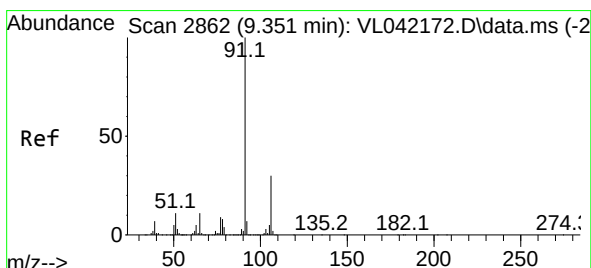
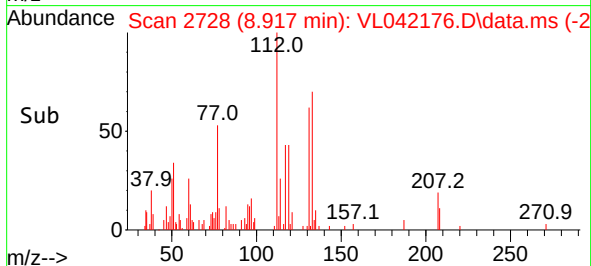
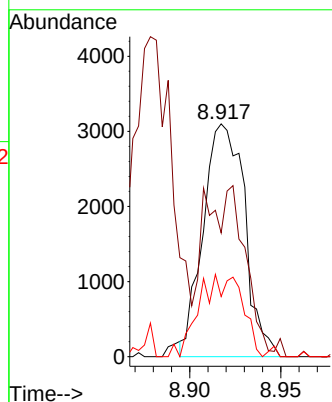
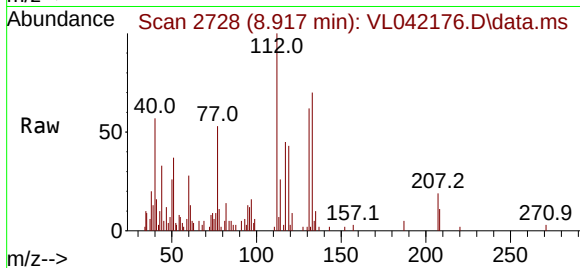
Tgt Ion:112 Resp: 4904

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

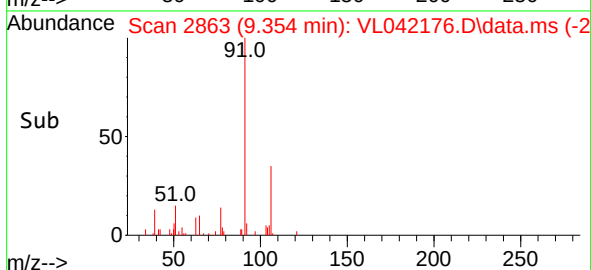
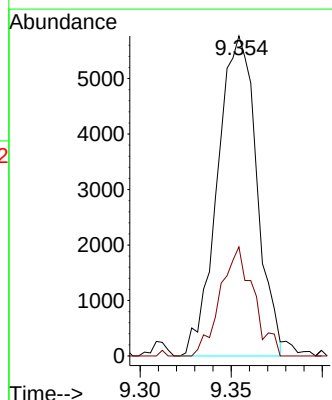
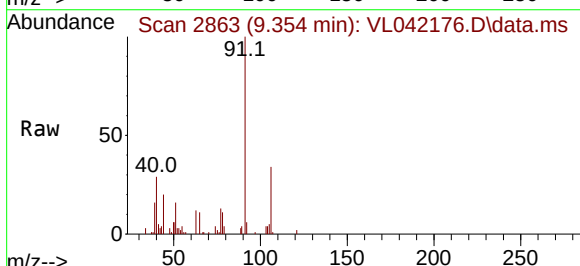
Acq: 27 Mar 2025 10:32

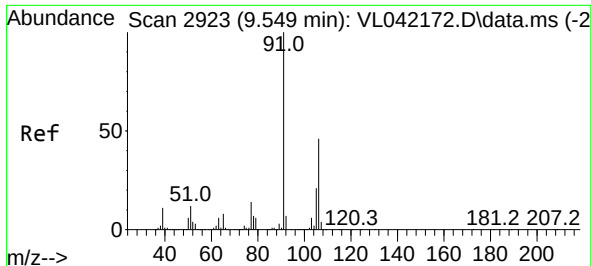
Tgt Ion: 91 Resp: 8648

Ion Ratio Lower Upper

91 100

106 34.1 24.2 36.2

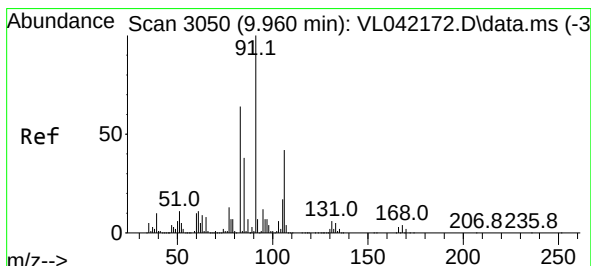
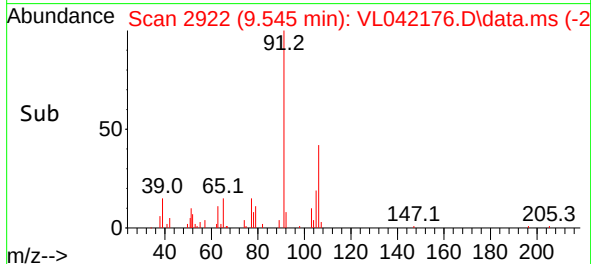
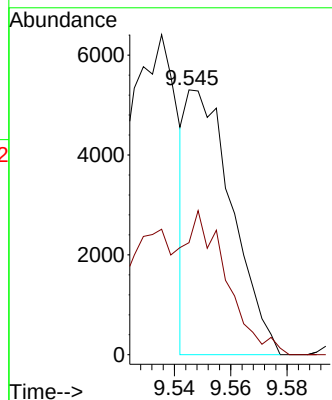
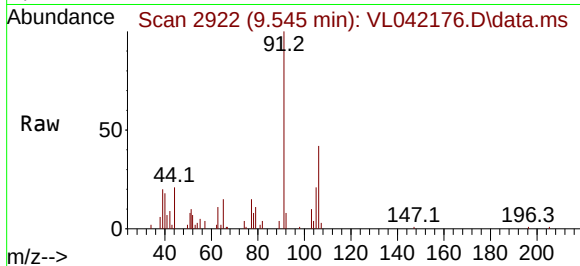




#59
m/p-Xylene
Concen: 0.088 ppbv
RT: 9.545 min Scan# 2923
Delta R.T. -0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

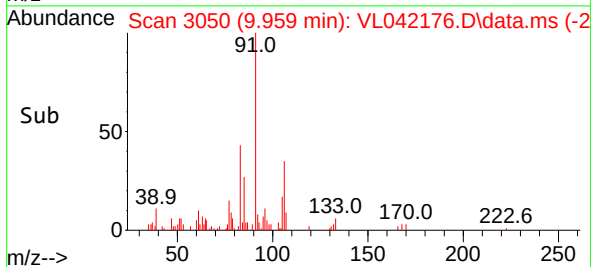
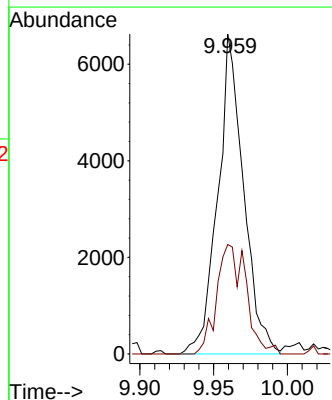
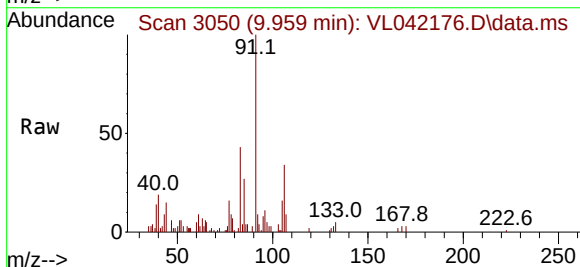
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

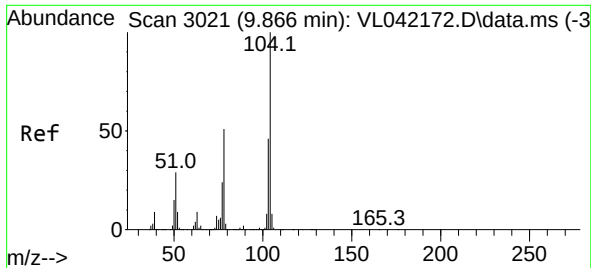
Tgt Ion: 91 Resp: 6005
Ion Ratio Lower Upper
91 100
106 103.4 36.4 54.6#



#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

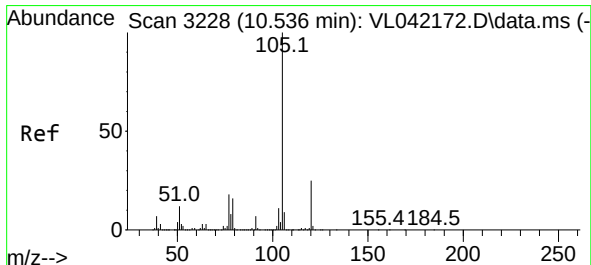
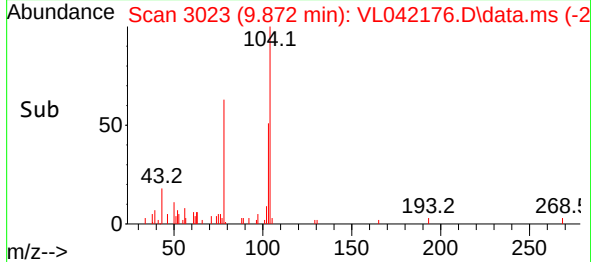
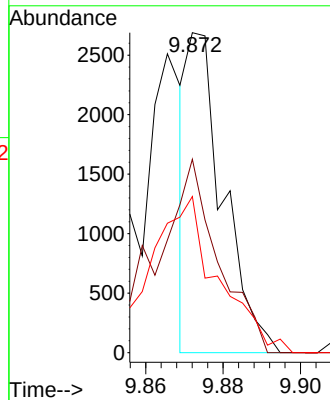
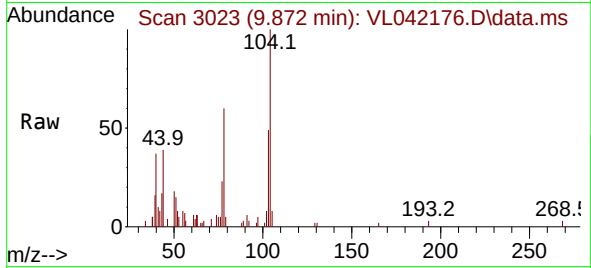
Tgt Ion:104 Resp: 1723

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

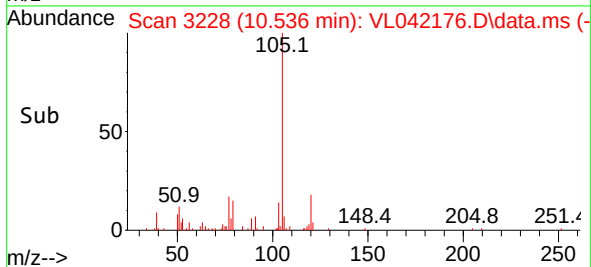
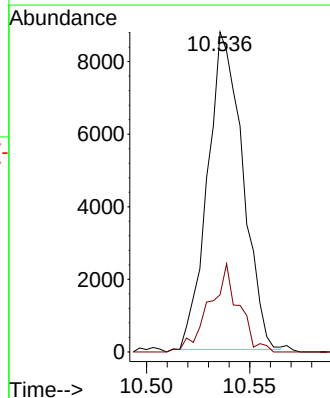
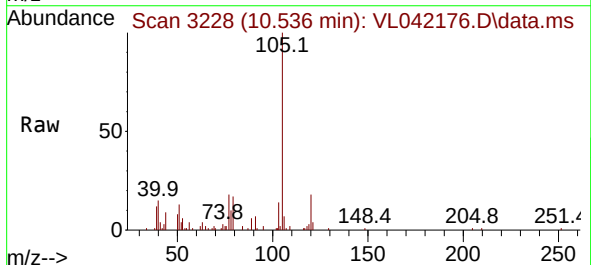
Acq: 27 Mar 2025 10:32

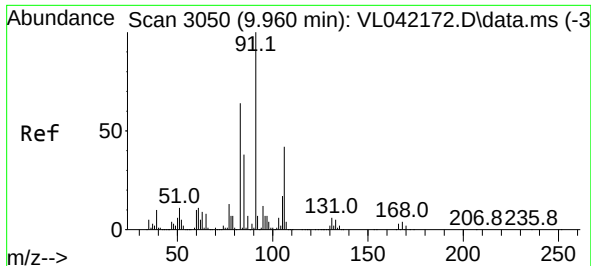
Tgt Ion:105 Resp: 10359

Ion Ratio Lower Upper

105 100

120 23.2 19.9 29.9





#63

1,1,2,2-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

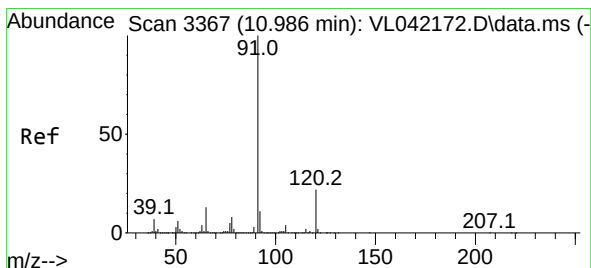
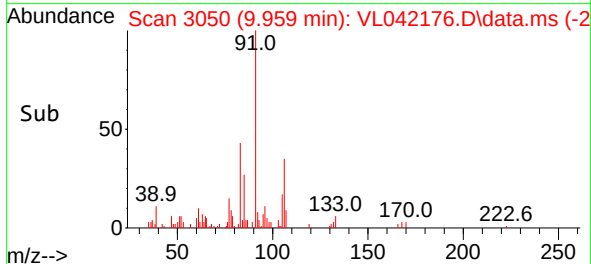
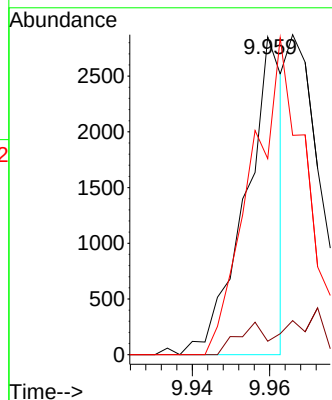
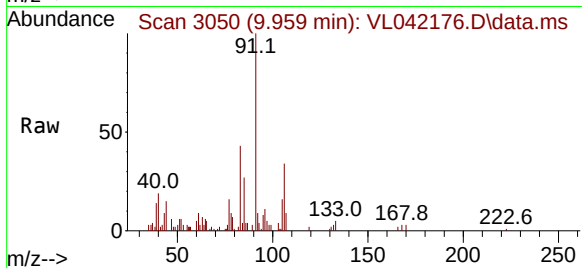
Tgt Ion: 83 Resp: 1910

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

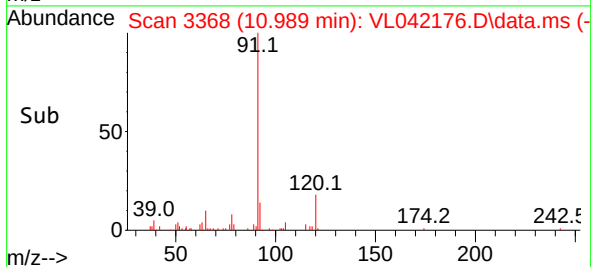
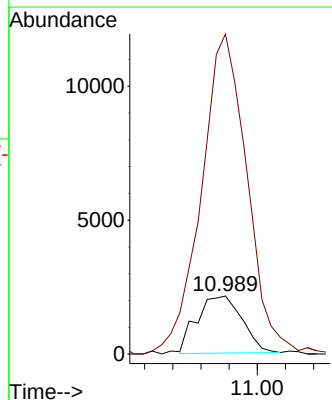
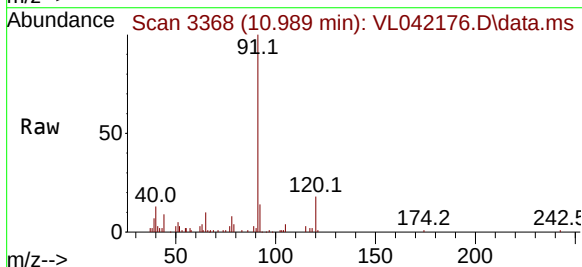
Acq: 27 Mar 2025 10:32

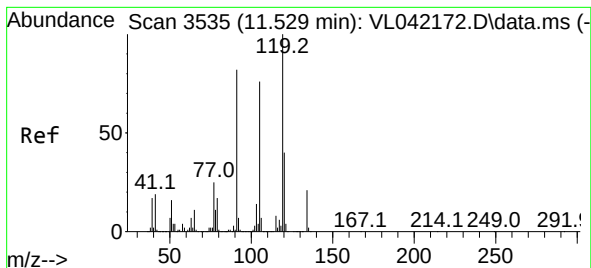
Tgt Ion: 120 Resp: 2375

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 :

VSTDICC0.1

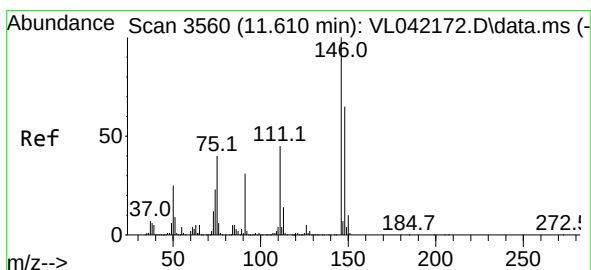
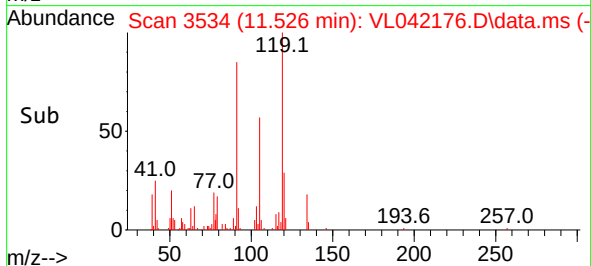
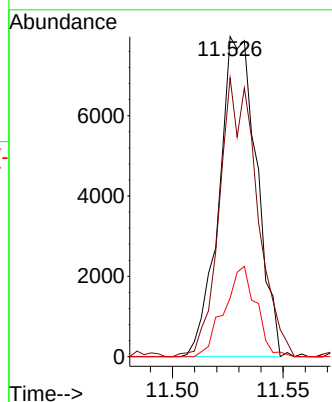
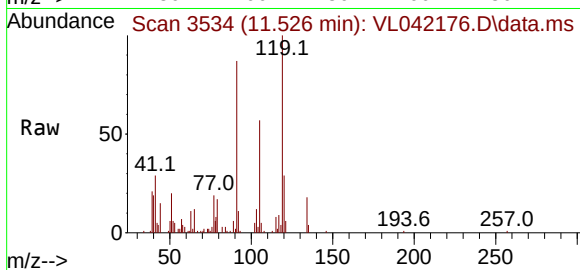
Tgt Ion:119 Resp: 9418

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

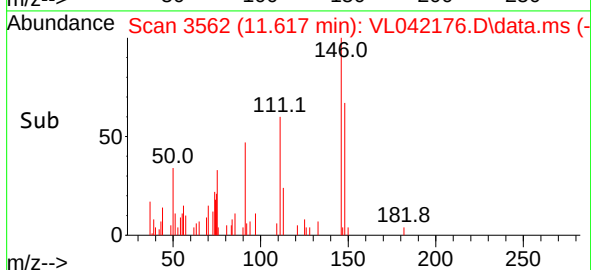
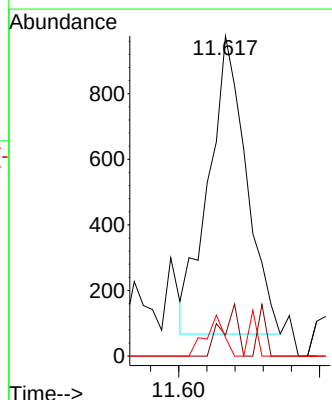
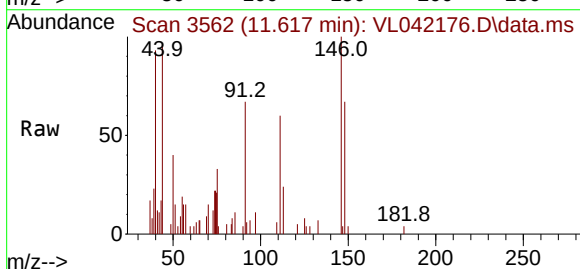
Tgt Ion: 91 Resp: 844

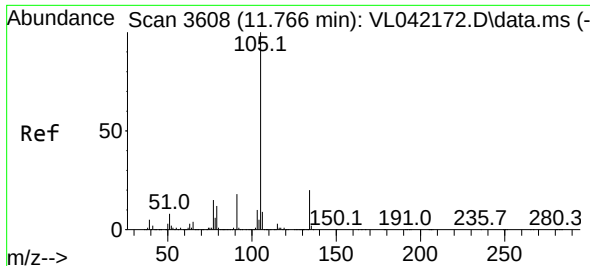
Ion Ratio Lower Upper

91 100

126 11.0 13.8 20.6#

128 10.0 4.5 6.7#

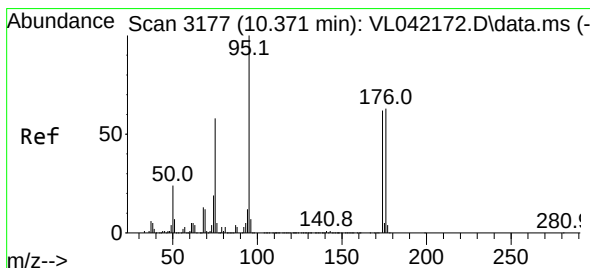
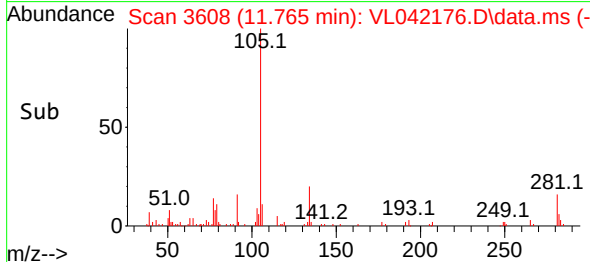
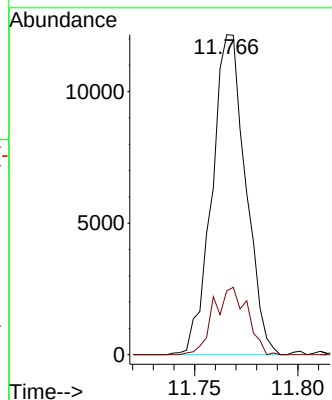
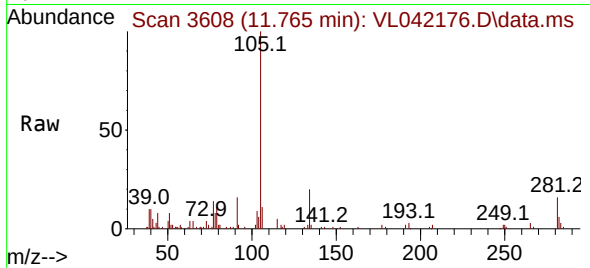




#67
 sec-Butylbenzene
 Concen: 0.105 ppbv
 RT: 11.765 min Scan# 3608
 Delta R.T. -0.000 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

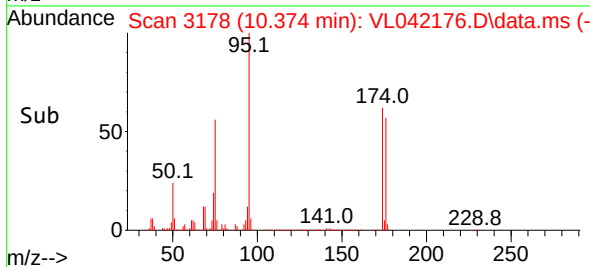
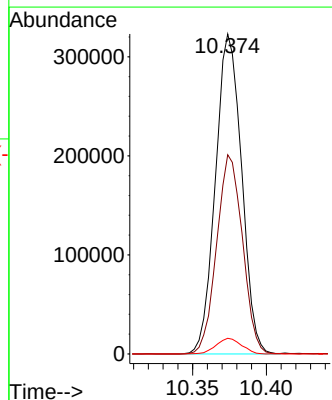
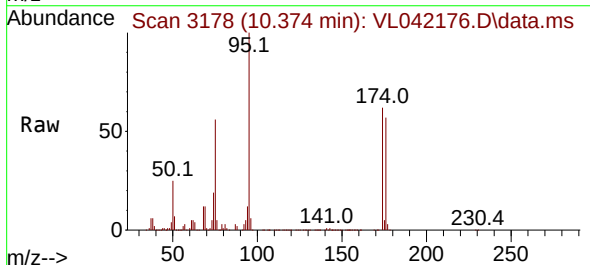
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

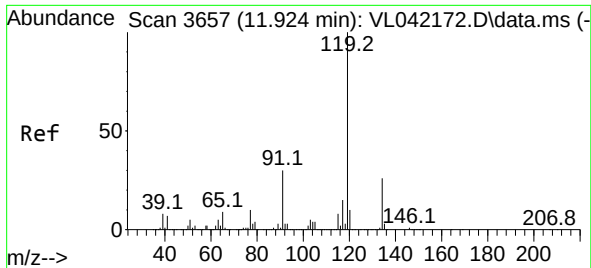
Tgt Ion:105 Resp: 13775
 Ion Ratio Lower Upper
 105 100
 134 21.2 15.5 23.3



#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

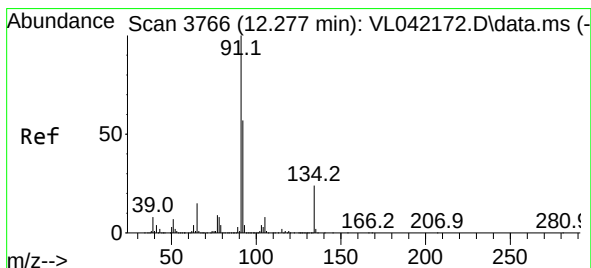
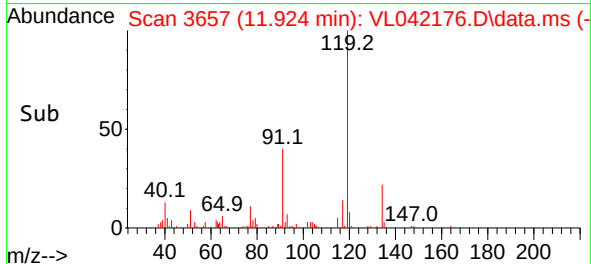
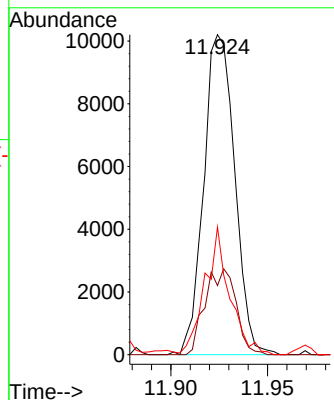
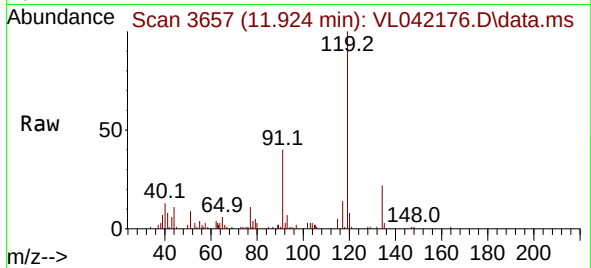




#69
 p-Isopropyltoluene
 Concen: 0.100 ppbv
 RT: 11.924 min Scan# 3657
 Delta R.T. -0.000 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

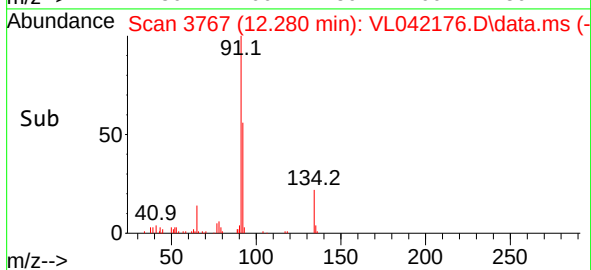
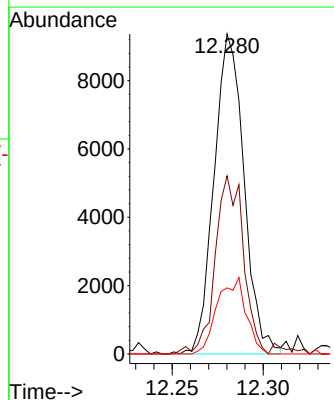
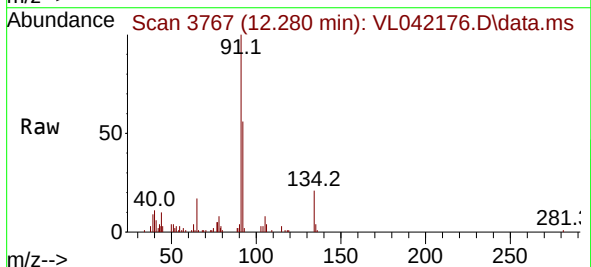
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

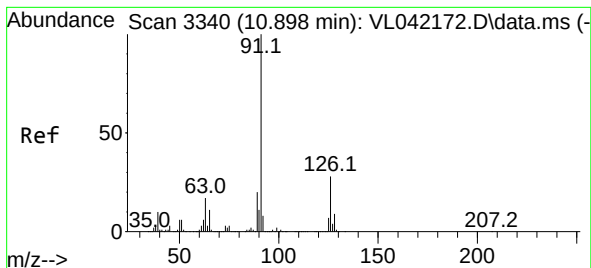
Tgt Ion:	119	Resp:	11366
Ion	Ratio	Lower	Upper
119	100		
134	26.8	20.4	30.6
91	30.7	23.7	35.5



#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

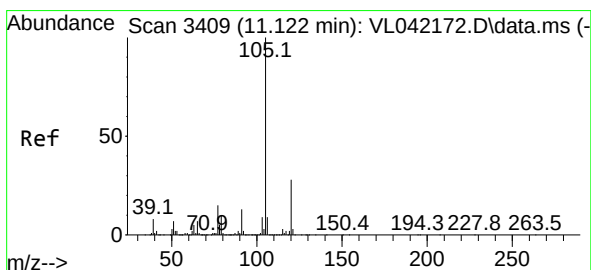
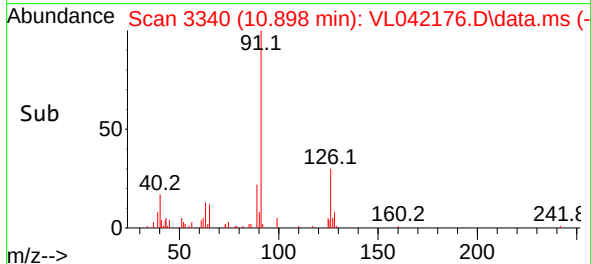
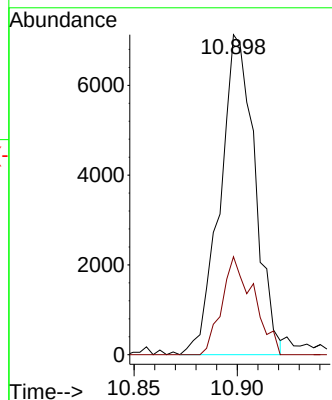
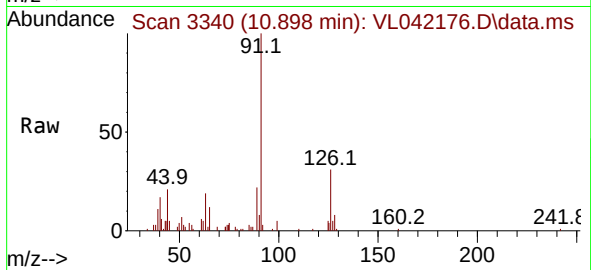




#71
2-Chlorotoluene
Concen: 0.105 ppbv
RT: 10.898 min Scan# 3110
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

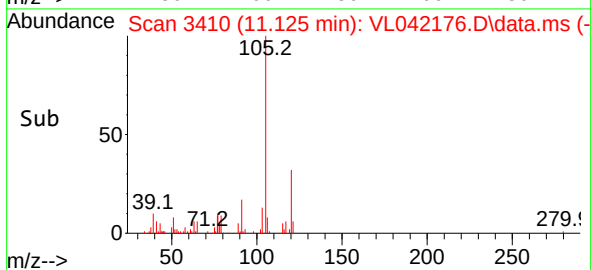
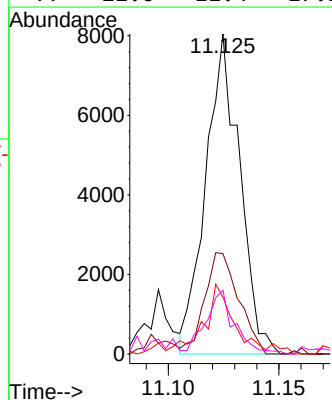
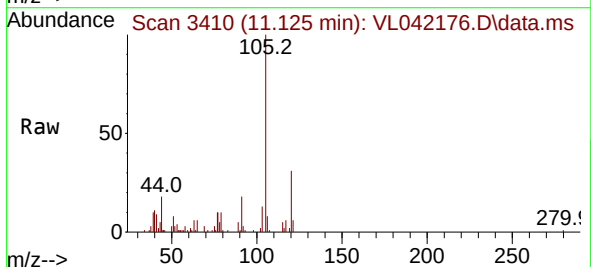
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

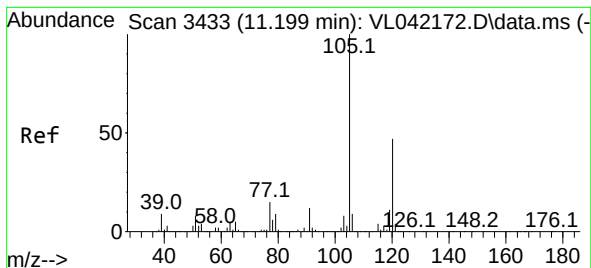
Tgt Ion: 91 Resp: 8347
Ion Ratio Lower Upper
91 100
126 28.0 11.6 46.4



#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 :

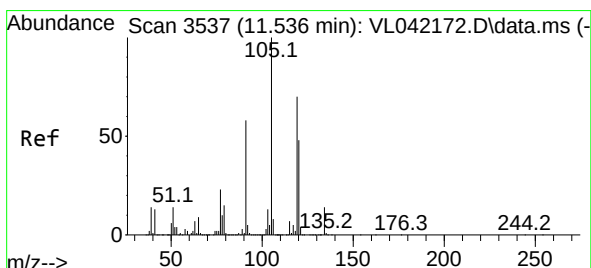
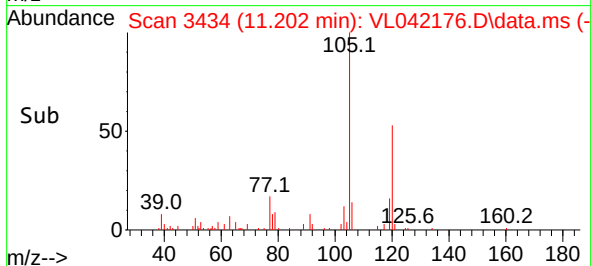
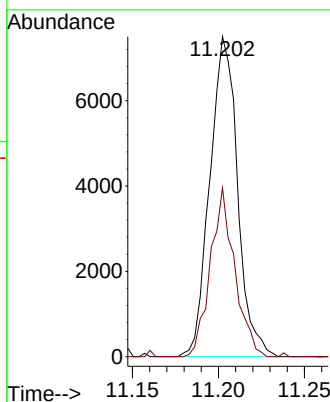
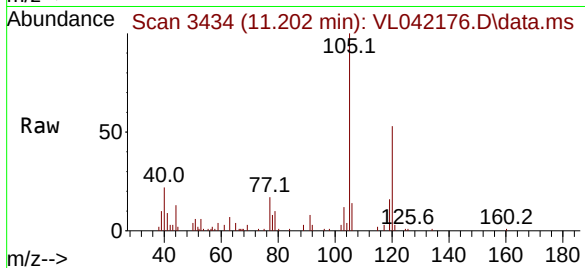
VSTDIC0.1

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

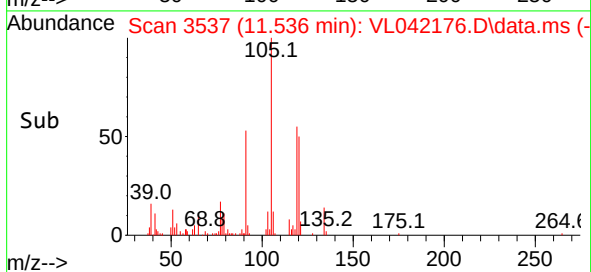
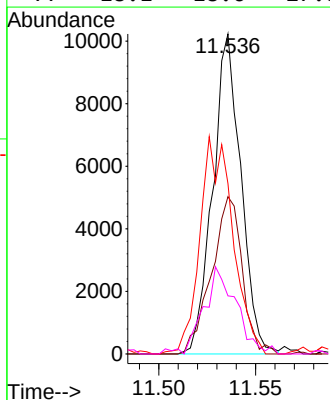
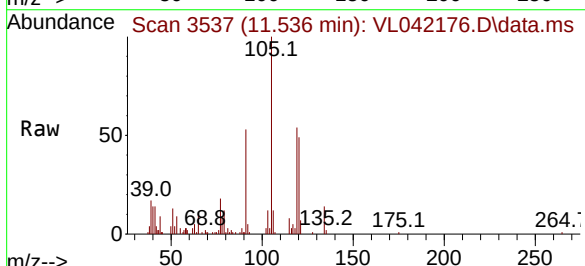
Ion Ratio Lower Upper

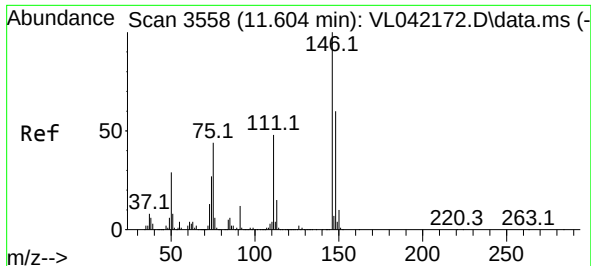
105 100

120 49.2 38.6 58.0

91 53.2 46.2 69.2

77 18.1 18.6 27.8#

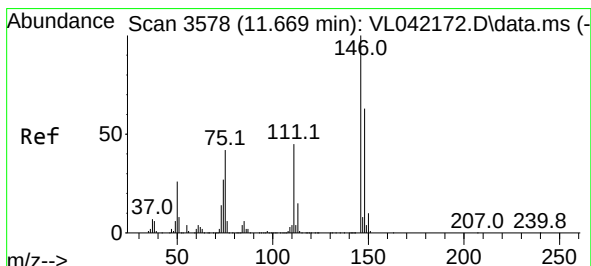
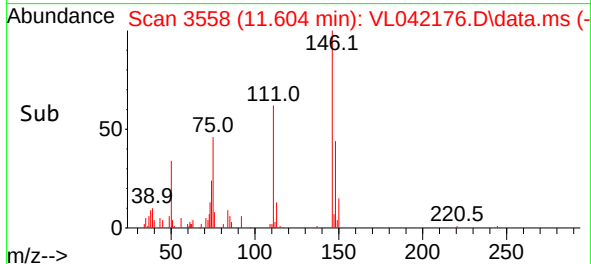
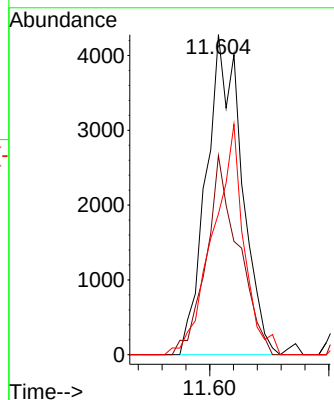
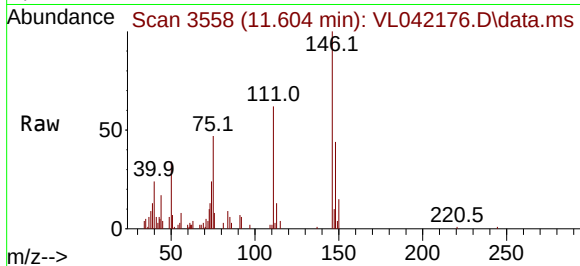




#75
1,3-Dichlorobenzene
Concen: 0.094 ppbv
RT: 11.604 min Scan# 3558
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

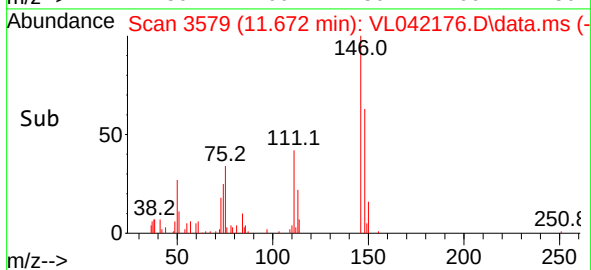
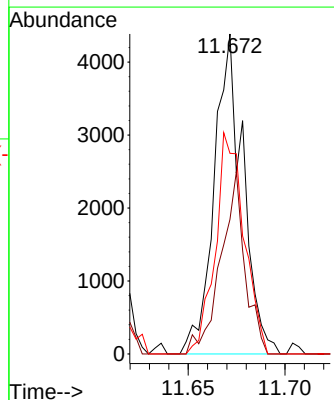
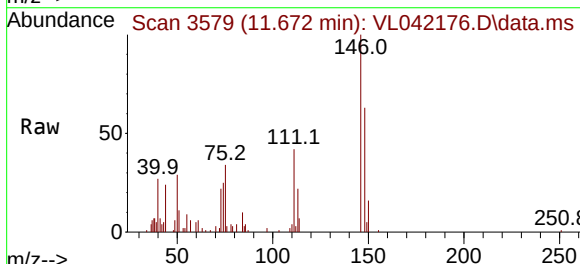
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

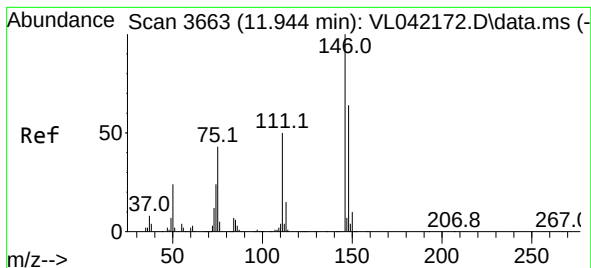
Tgt Ion:	146	Resp:	4426
Ion Ratio	Lower	Upper	
146	100		
111	56.3	23.8	71.2
148	62.9	31.9	95.9



#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# 3

Delta R.T. 0.003 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

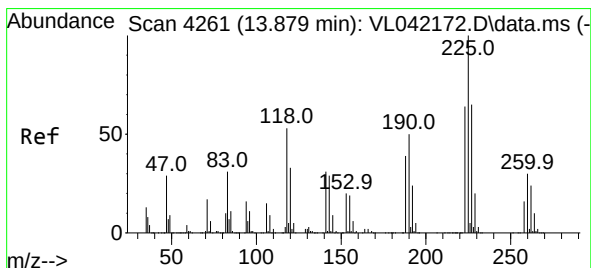
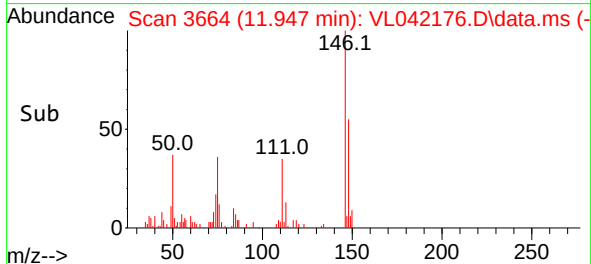
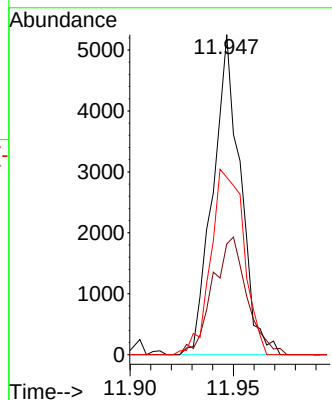
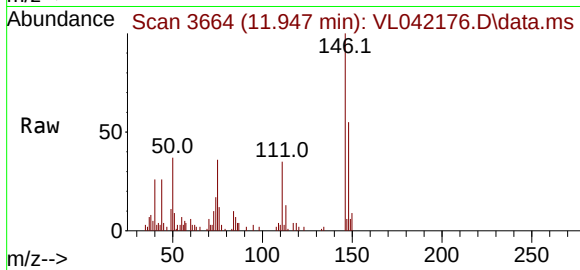
Tgt Ion:146 Resp: 4867

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

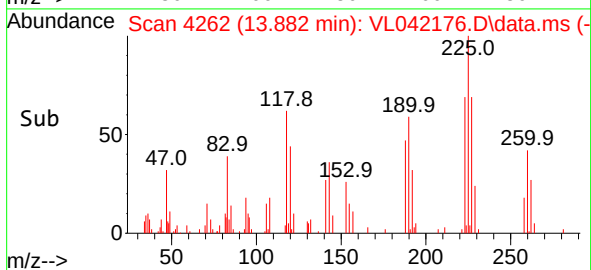
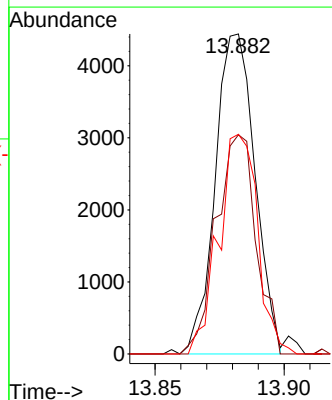
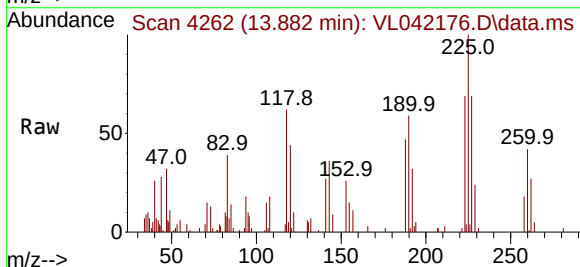
Tgt Ion:225 Resp: 4755

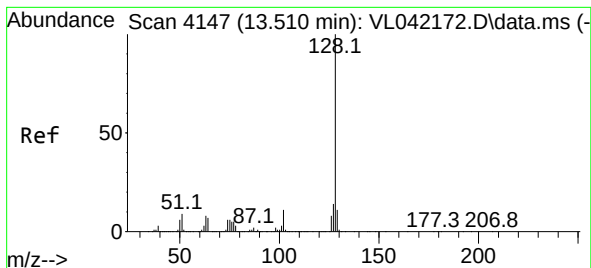
Ion Ratio Lower Upper

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

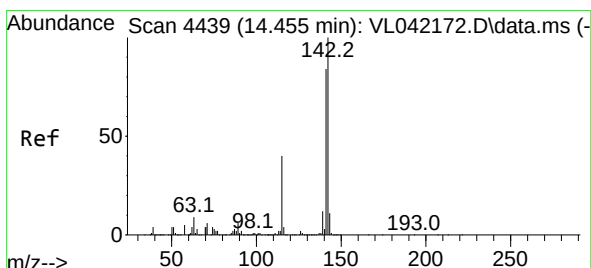
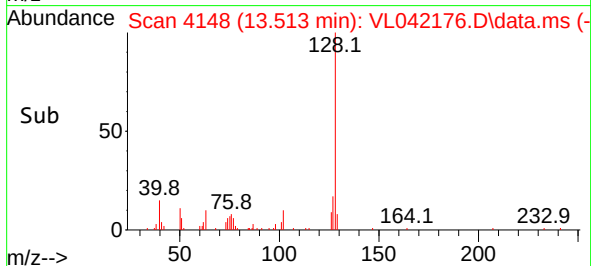
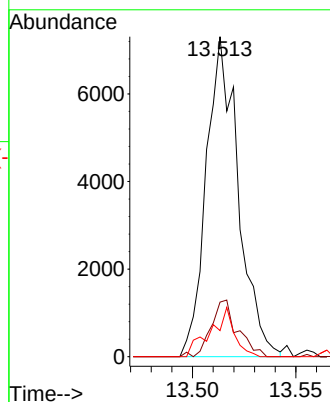
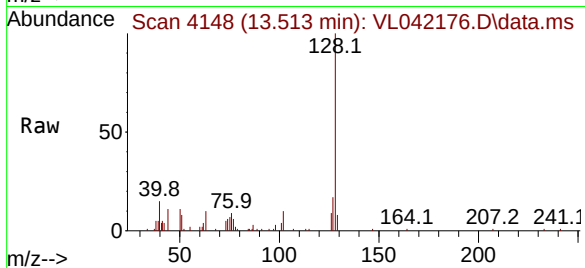
Tgt Ion:128 Resp: 7882

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

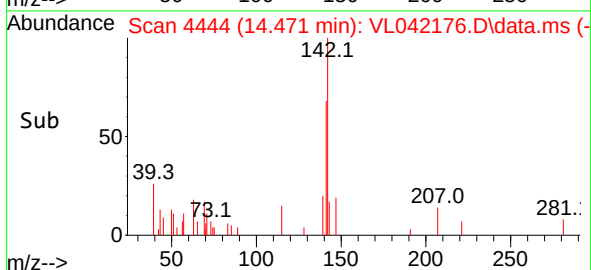
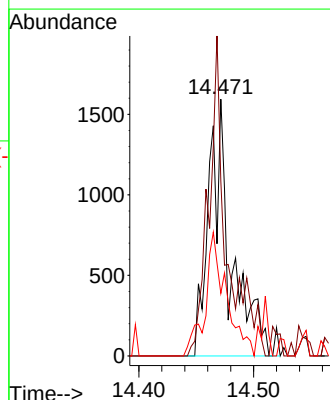
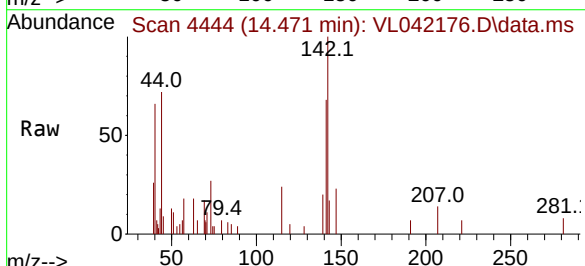
Tgt Ion:142 Resp: 2174

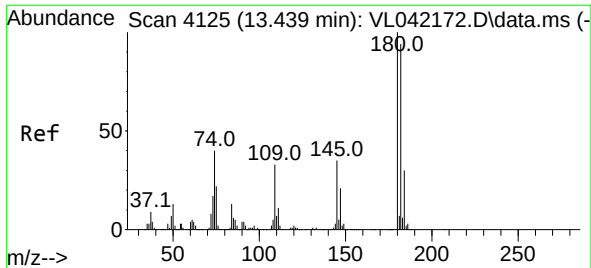
Ion Ratio Lower Upper

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

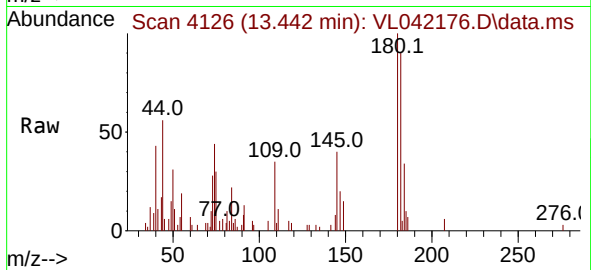
Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1



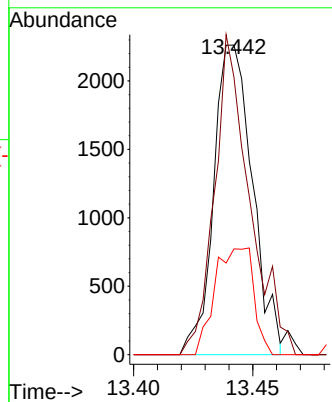
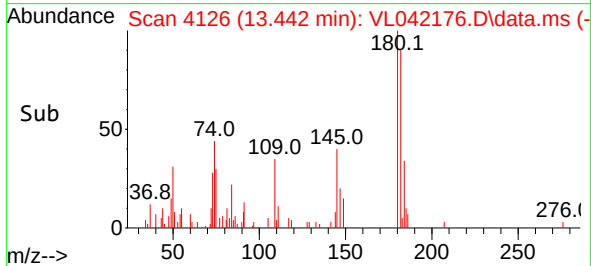
Tgt Ion:180 Resp: 2557

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

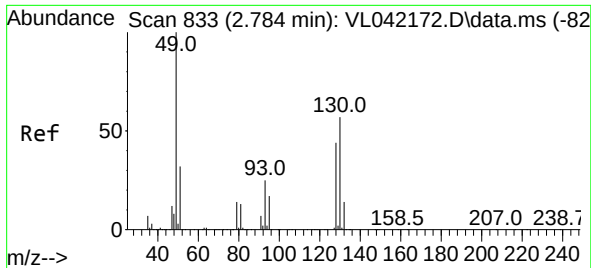
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	389935	9.983	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%

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

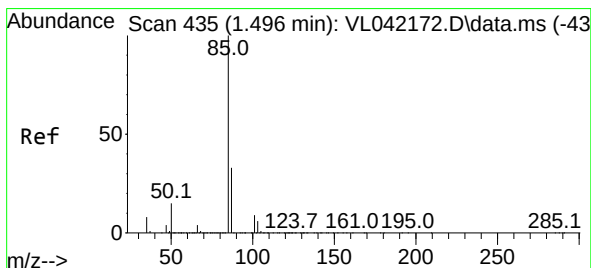
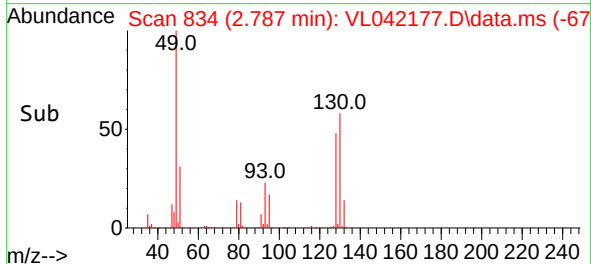
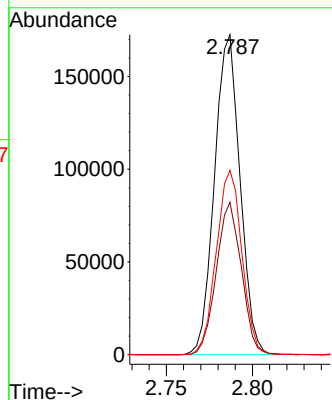
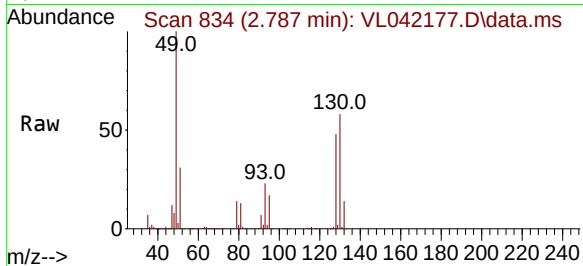




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

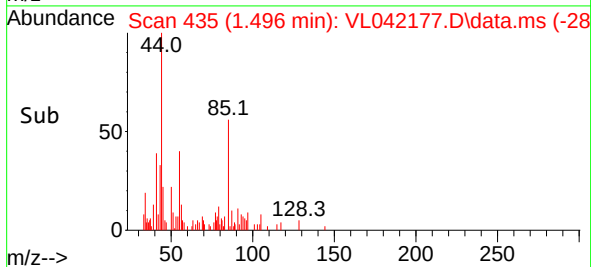
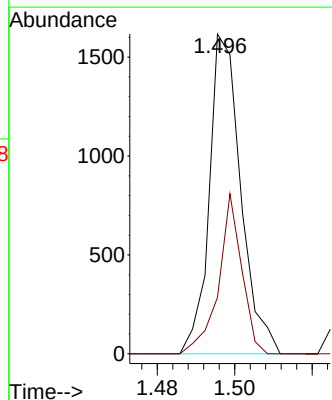
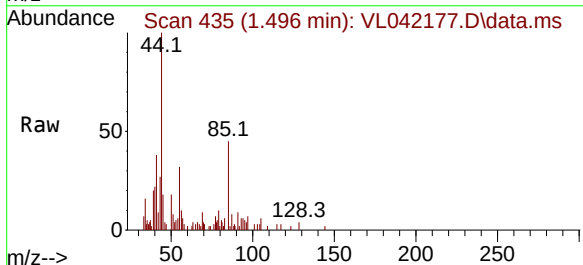
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

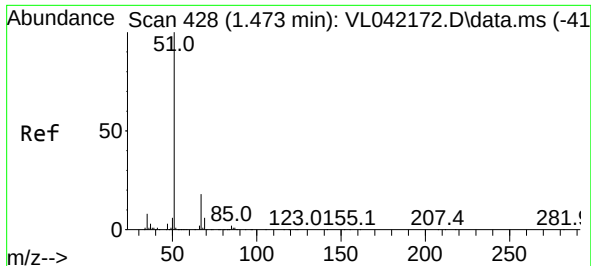
Tgt Ion: 49 Resp: 178058
Ion Ratio Lower Upper
49 100
128 46.8 22.9 68.5
130 57.9 28.8 86.4



#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#

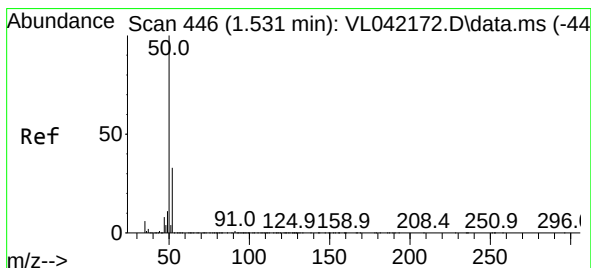
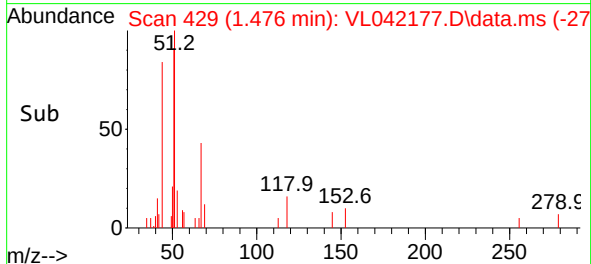
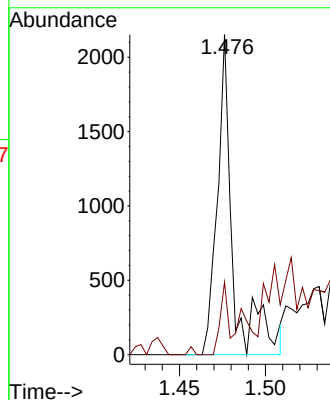
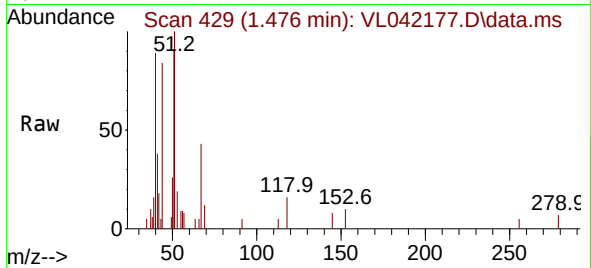




#3
Chlorodifluoromethane
Concen: 0.050 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

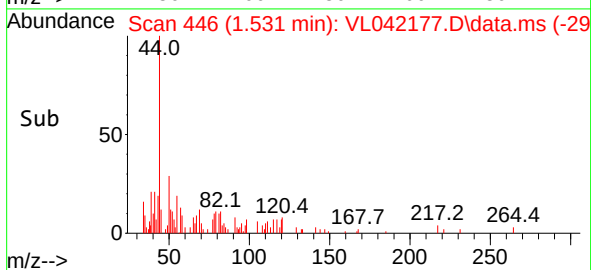
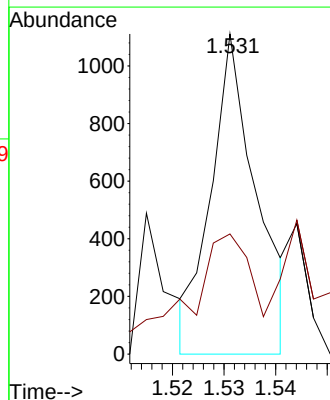
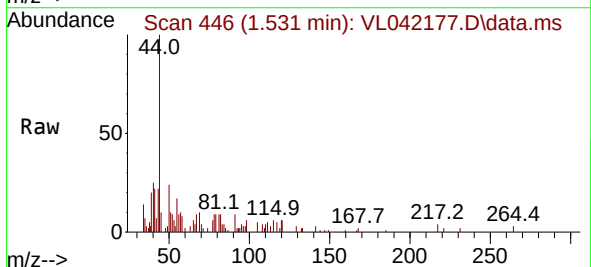
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

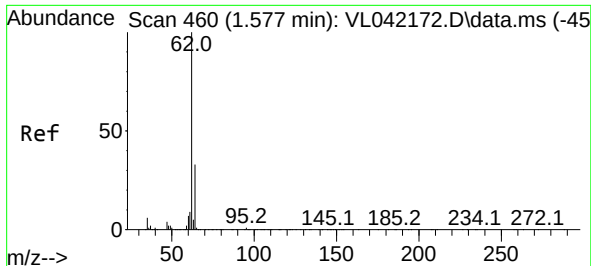
Tgt Ion: 51 Resp: 1354
Ion Ratio Lower Upper
51 100
67 71.0 15.0 22.6#



#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#

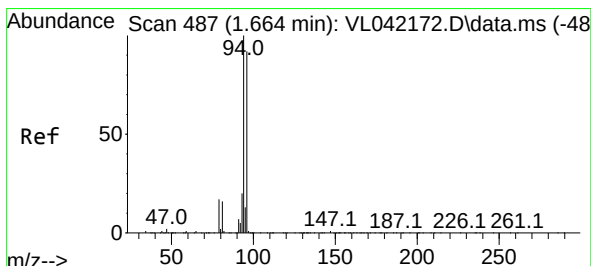
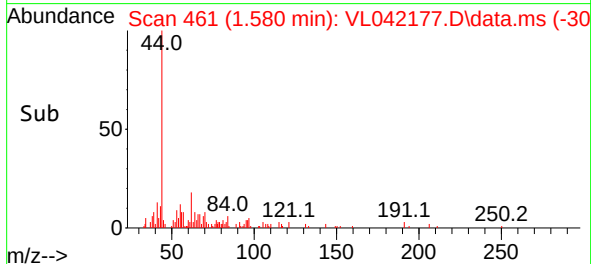
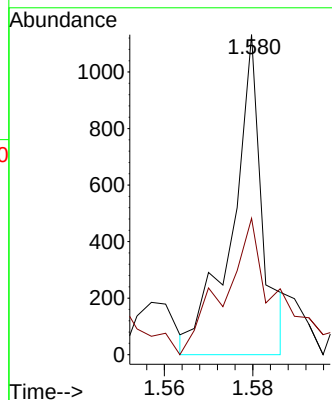
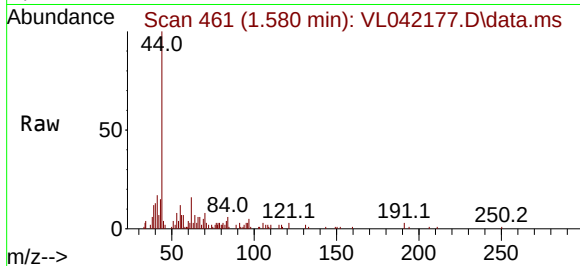




#5
 Vinyl Chloride
 Concen: 0.049 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL042177.D
 Acq: 27 Mar 2025 11:03

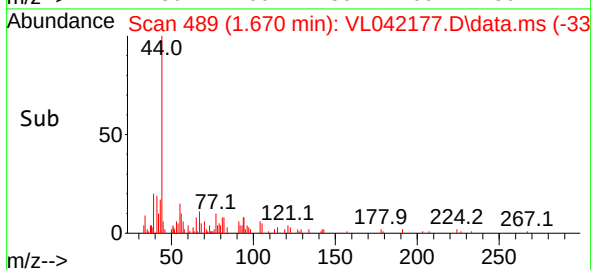
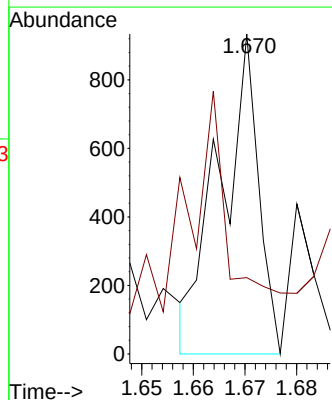
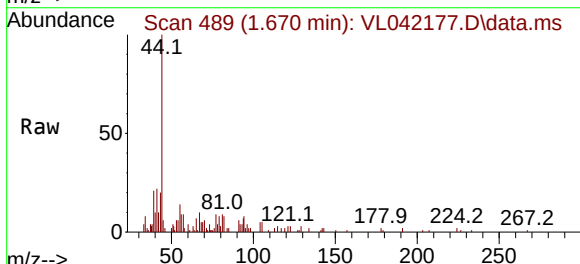
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

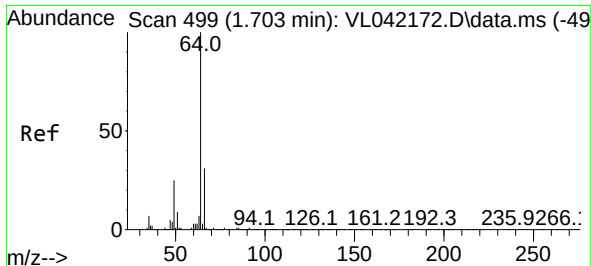
Tgt Ion: 62 Resp: 534
 Ion Ratio Lower Upper
 62 100
 64 45.4 26.6 40.0#



#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#

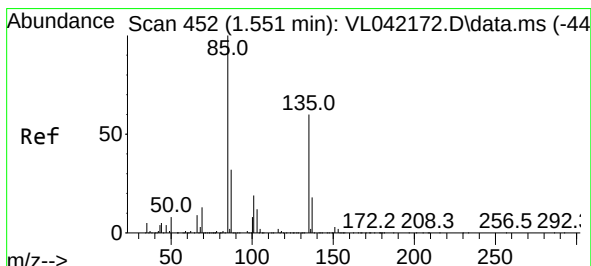
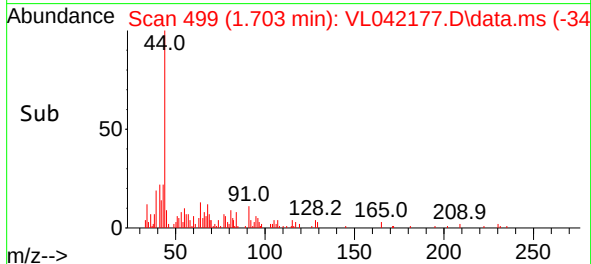
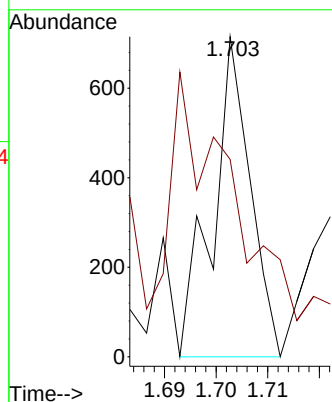
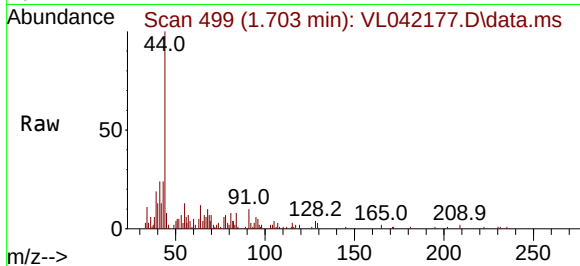




#7
Chloroethane
Concen: 0.084 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

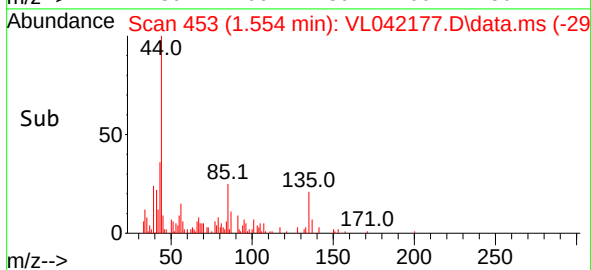
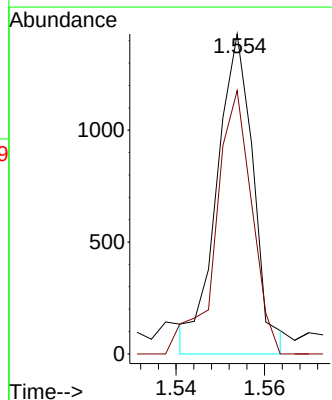
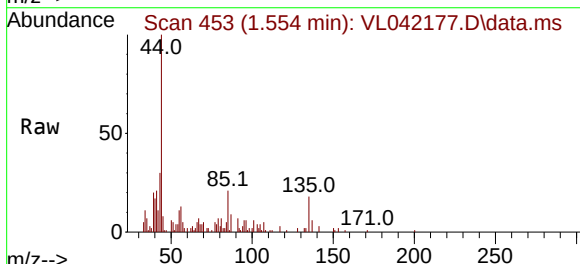
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

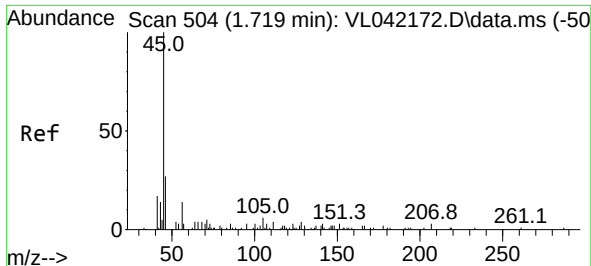
Tgt Ion: 64 Resp: 361
Ion Ratio Lower Upper
64 100
66 61.7 25.2 37.8#



#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#

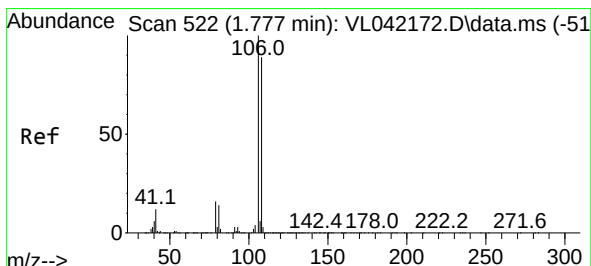
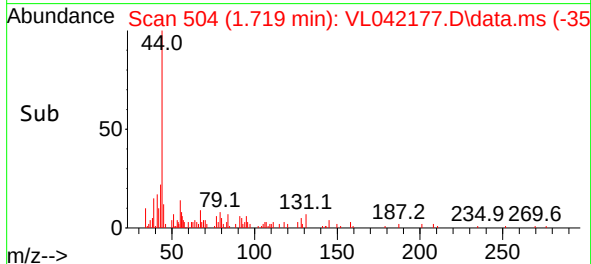
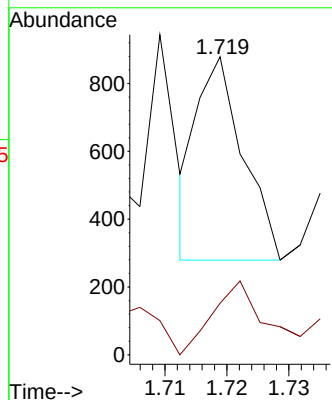
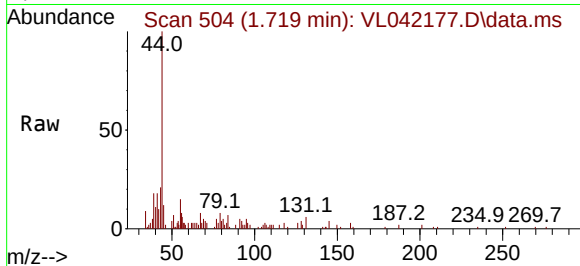




#13
 Ethanol
 Concen: 0.329 ppbv
 RT: 1.719 min Scan# 504
 Delta R.T. -0.000 min
 Lab File: VL042177.D
 Acq: 27 Mar 2025 11:03

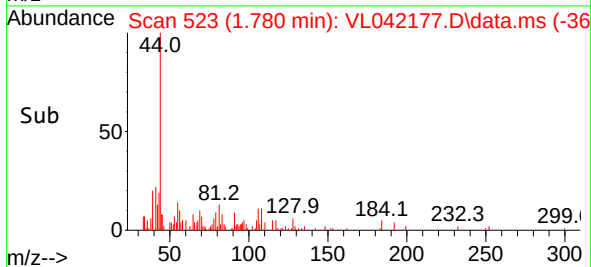
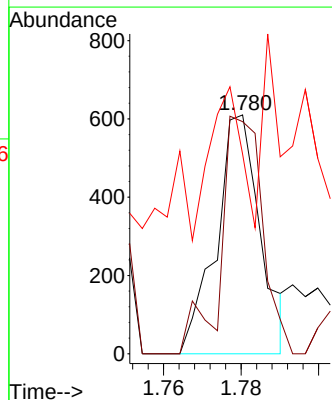
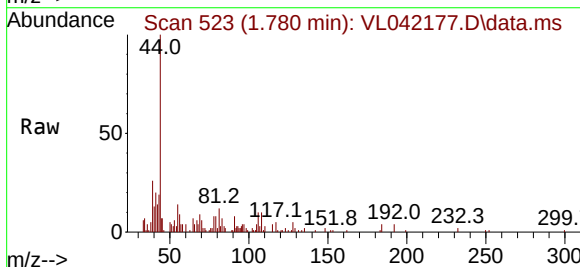
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

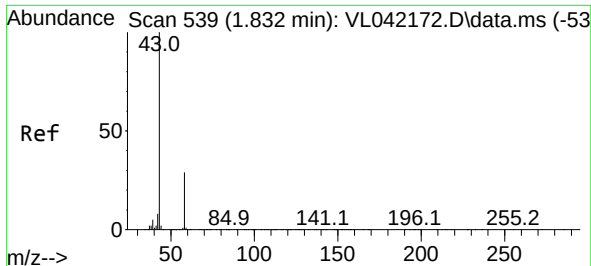
Tgt Ion: 45 Resp: 312
 Ion Ratio Lower Upper
 45 100
 46 0.0 20.2 80.8#



#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#

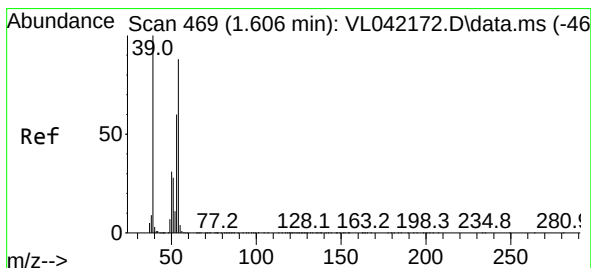
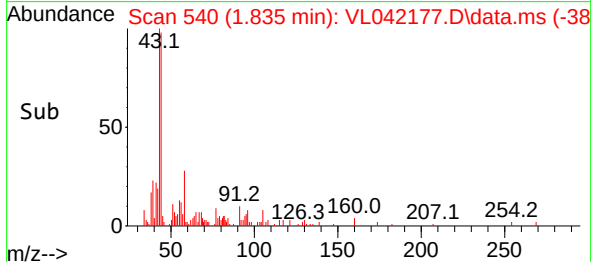
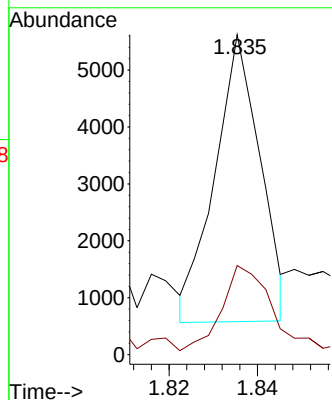
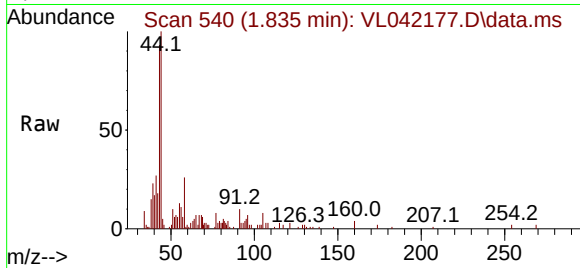




#15
Acetone
Concen: 0.144 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

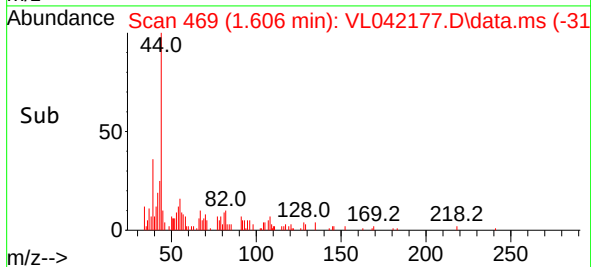
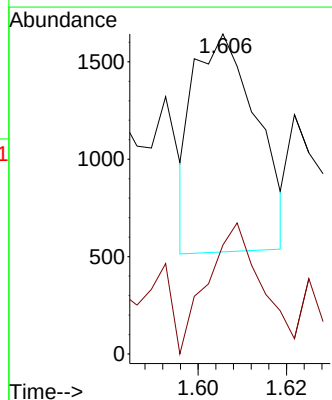
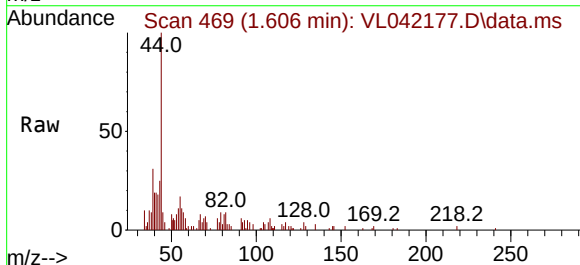
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

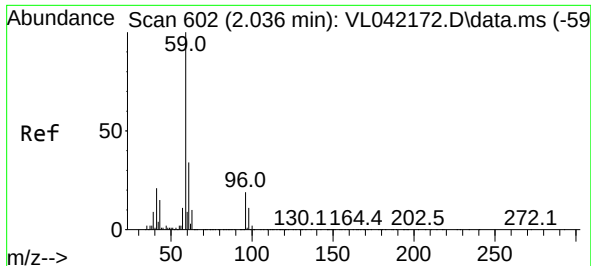
Tgt Ion: 43 Resp: 3574
Ion Ratio Lower Upper
43 100
58 48.5 23.2 34.8#



#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 :

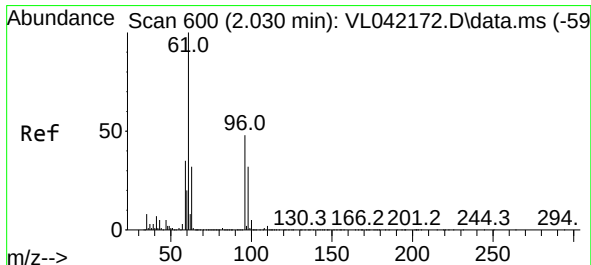
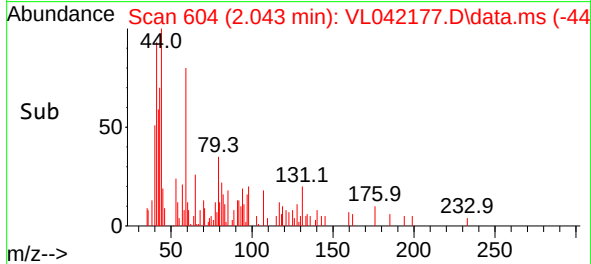
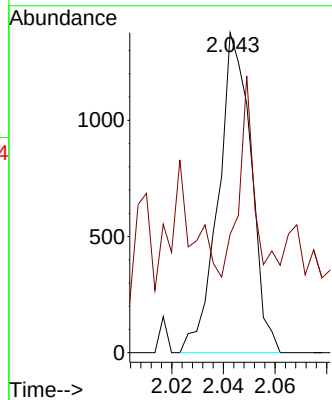
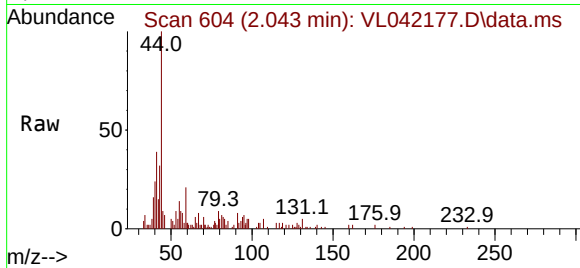
VSTDIC0.03

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

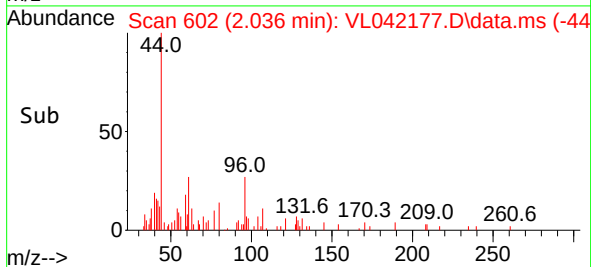
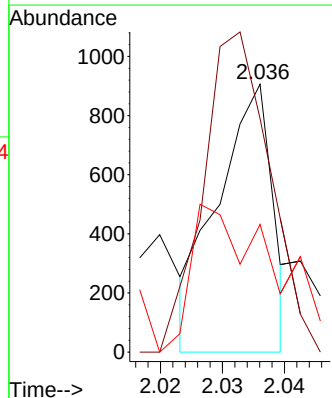
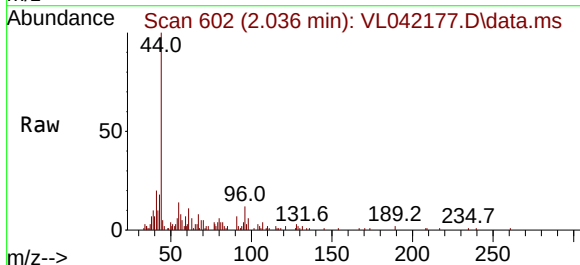
Tgt Ion: 96 Resp: 560

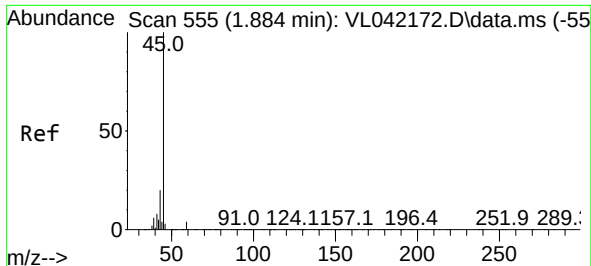
Ion Ratio Lower Upper

96 100

61 87.3 167.6 251.4#

98 56.8 53.5 80.3

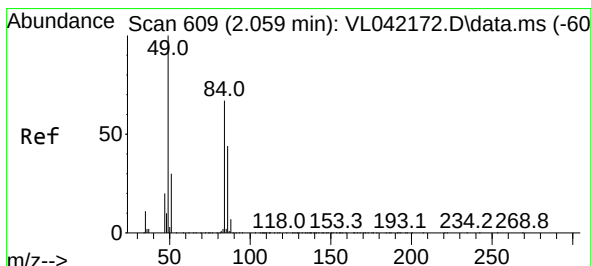
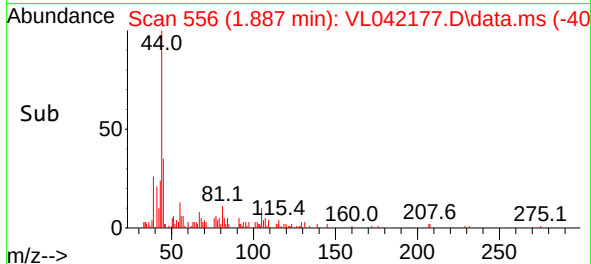
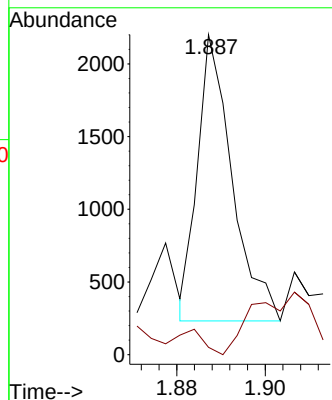
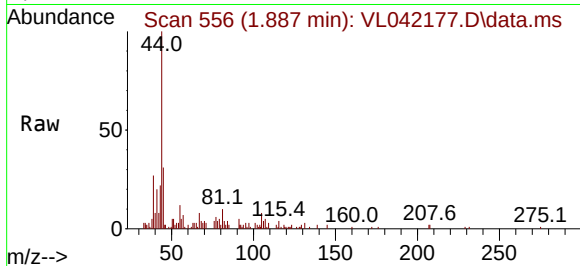




#19
Isopropyl Alcohol
Concen: 0.076 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

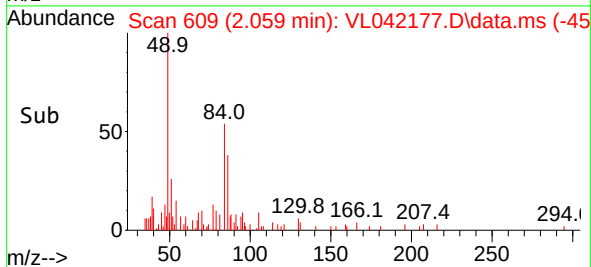
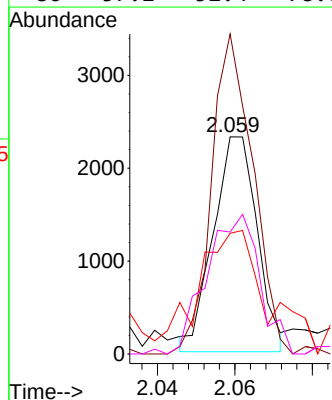
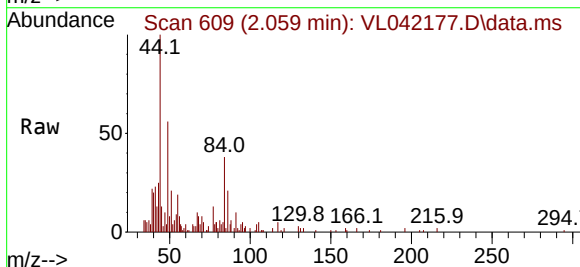
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

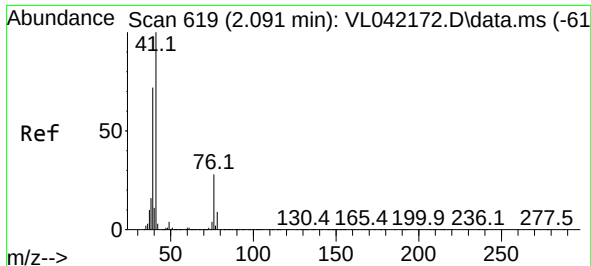
Tgt Ion: 45 Resp: 1071
Ion Ratio Lower Upper
45 100
58 0.0 36.9 55.3#



#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

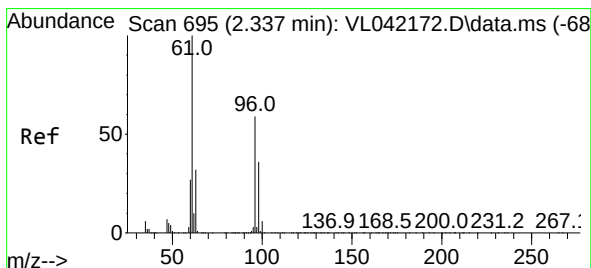
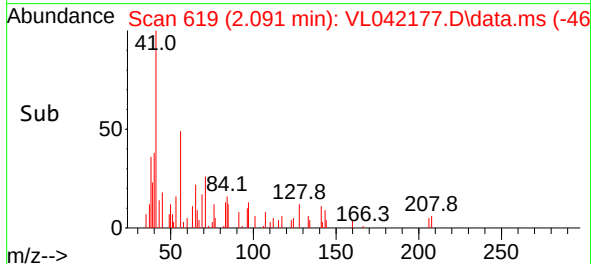
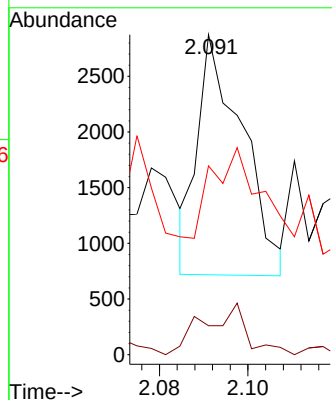
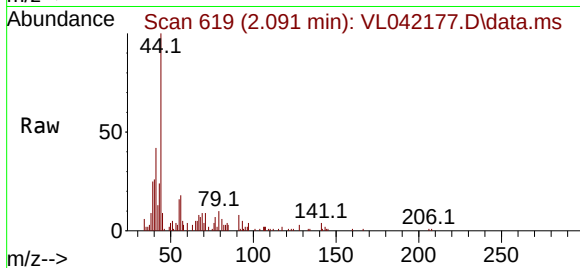




#21
 Allyl Chloride
 Concen: 0.086 ppbv
 RT: 2.091 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042177.D
 Acq: 27 Mar 2025 11:03

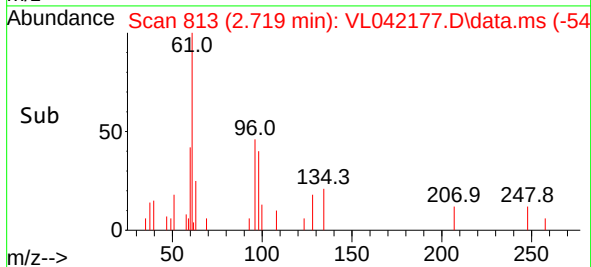
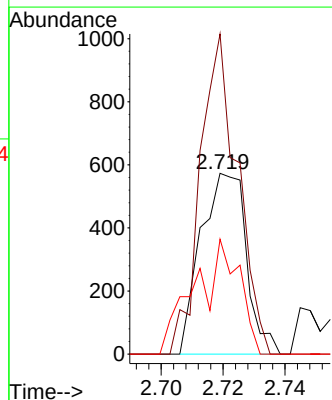
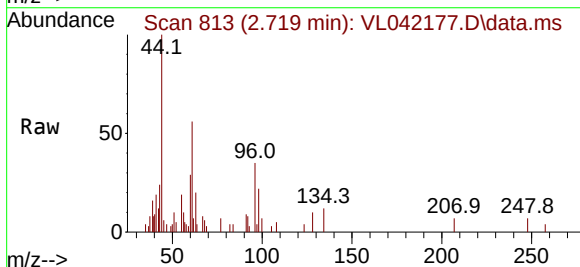
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

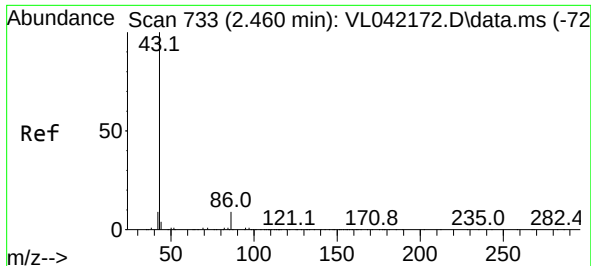
Tgt Ion: 41 Resp: 1518
 Ion Ratio Lower Upper
 41 100
 76 25.9 24.1 36.1
 39 158.8 61.1 91.7#



#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

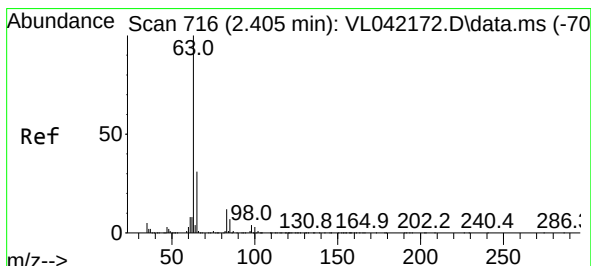
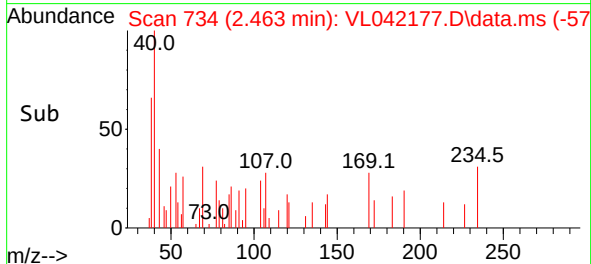
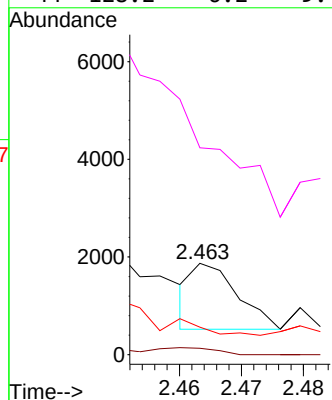
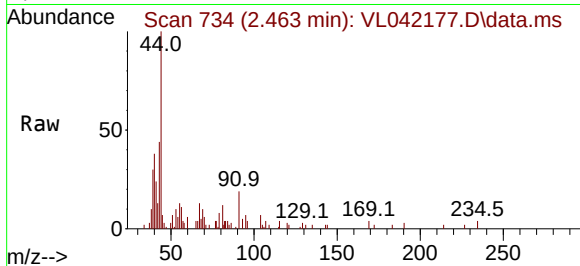




#23
 Vinyl Acetate
 Concen: 0.067 ppbv
 RT: 2.463 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042177.D
 Acq: 27 Mar 2025 11:03

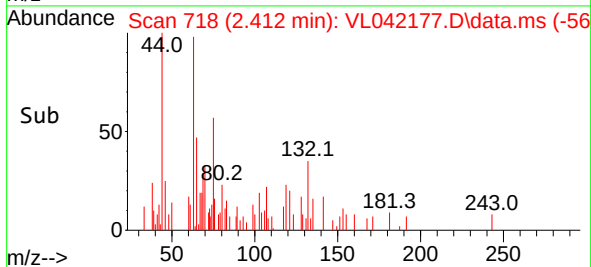
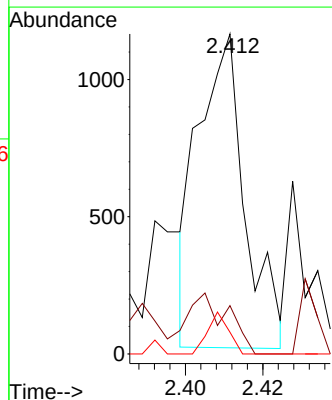
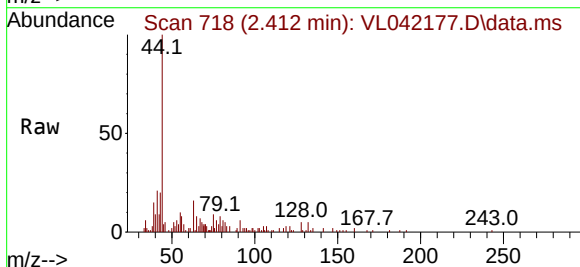
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

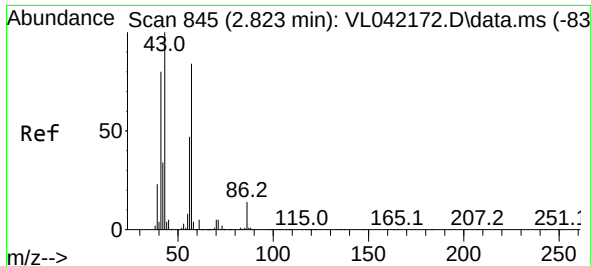
Tgt Ion:	43	Resp:	689
Ion	Ratio	Lower	Upper
43	100		
86	9.7	5.5	8.3#
42	6.8	8.6	13.0#
44	128.2	6.2	9.4#



#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#

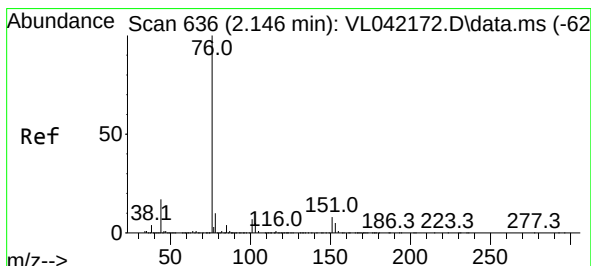
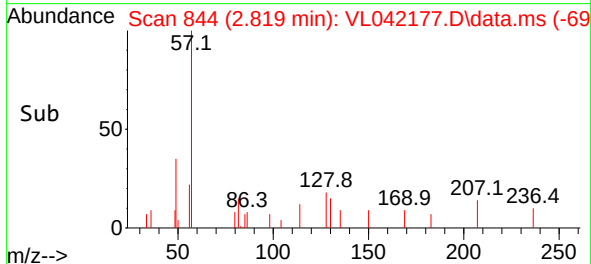
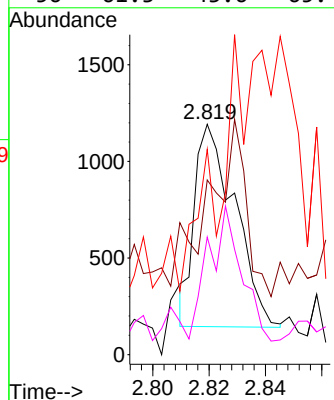
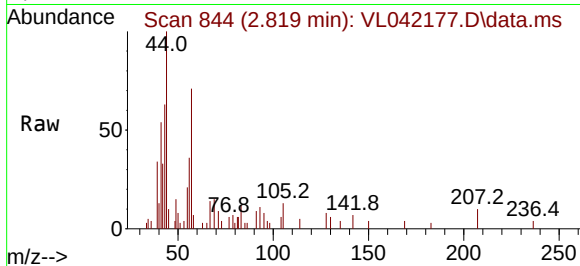




#26
Hexane
Concen: 0.042 ppbv
RT: 2.819 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

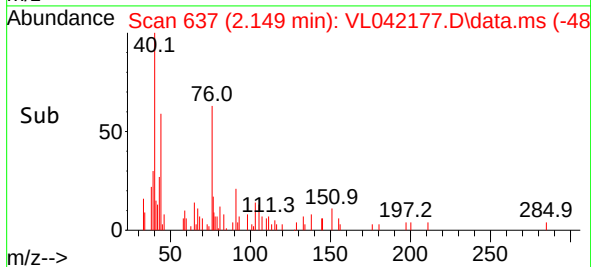
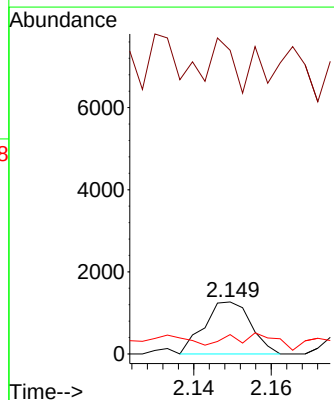
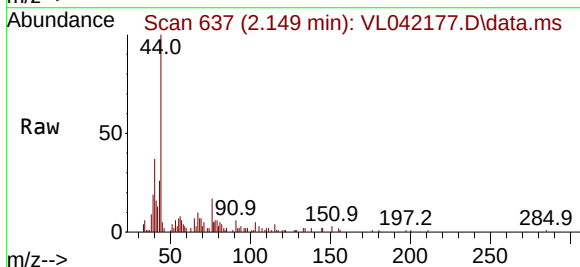
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

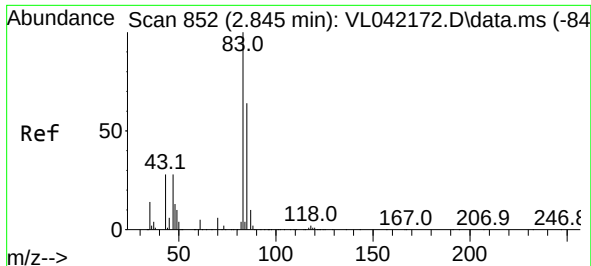
Tgt Ion: 57 Resp: 1040
Ion Ratio Lower Upper
57 100
41 179.4 76.6 114.8#
43 351.5 207.8 311.8#
56 61.3 43.6 65.4



#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 :

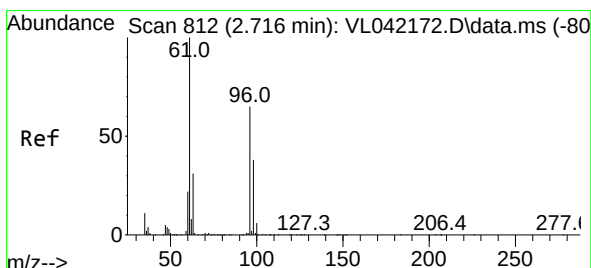
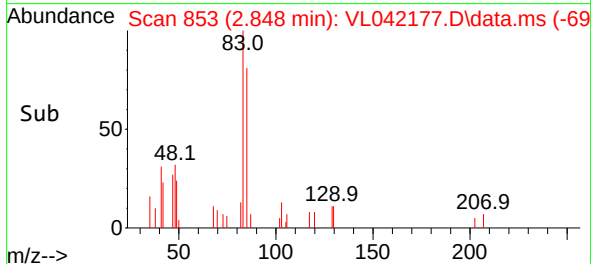
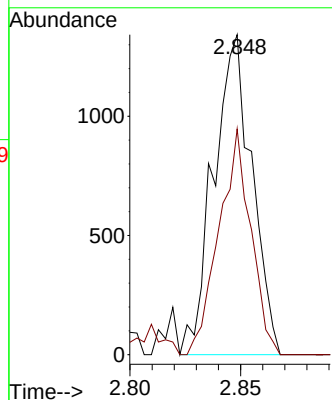
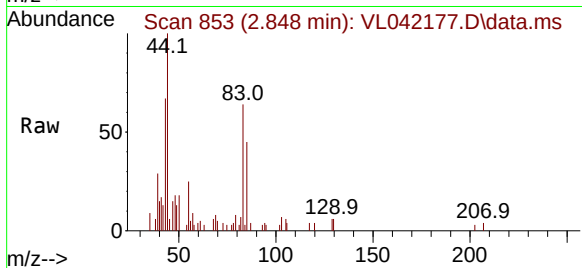
VSTDIC0.03

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

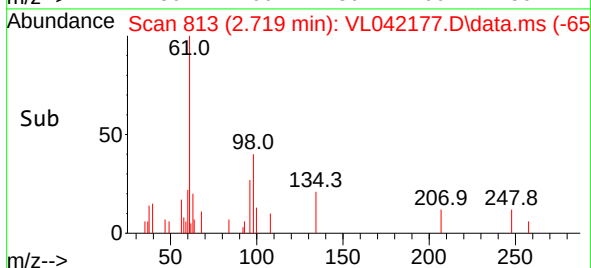
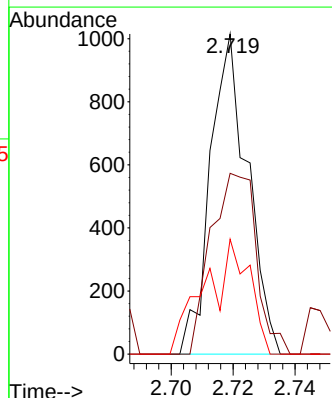
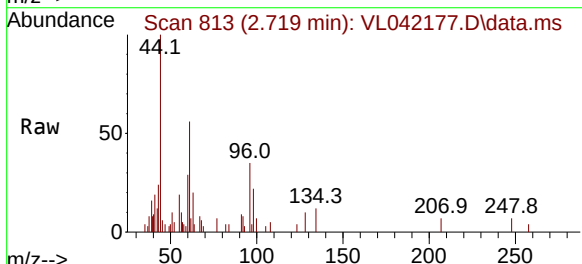
Tgt Ion: 61 Resp: 846

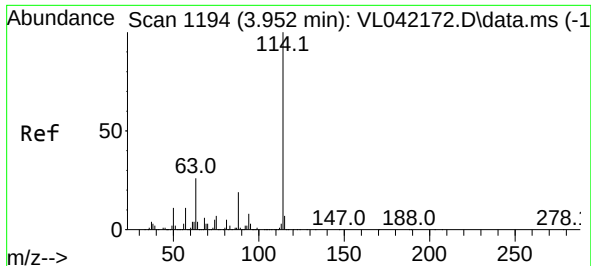
Ion Ratio Lower Upper

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

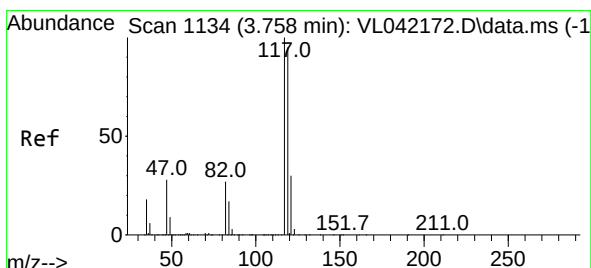
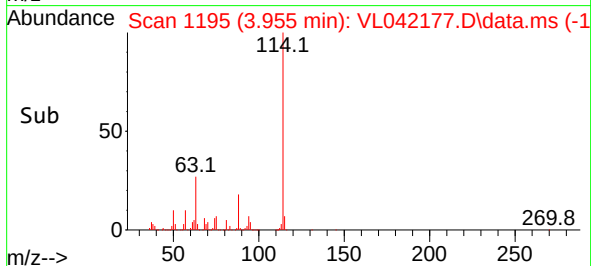
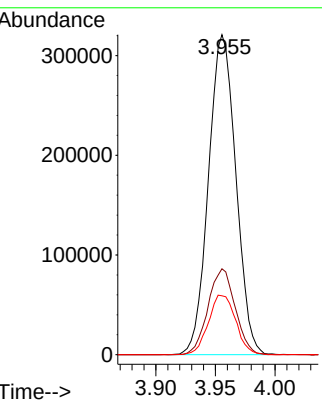
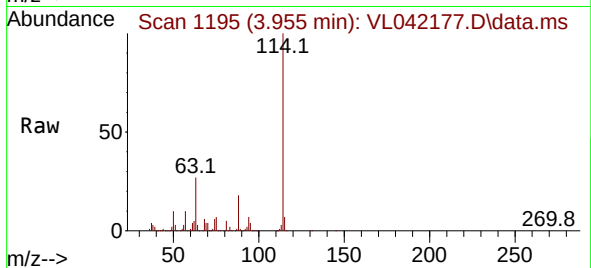
Tgt Ion:114 Resp: 512915

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

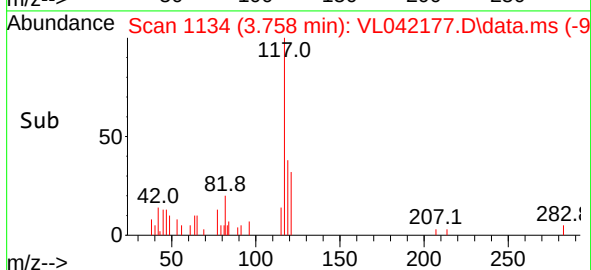
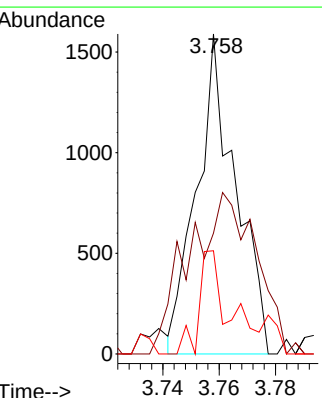
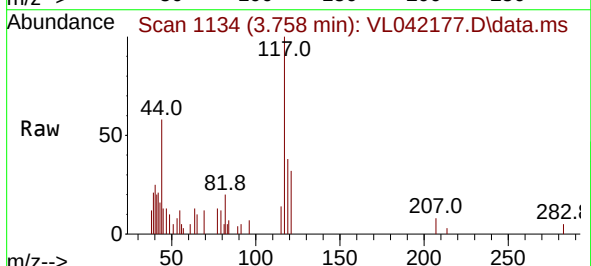
Tgt Ion:117 Resp: 1520

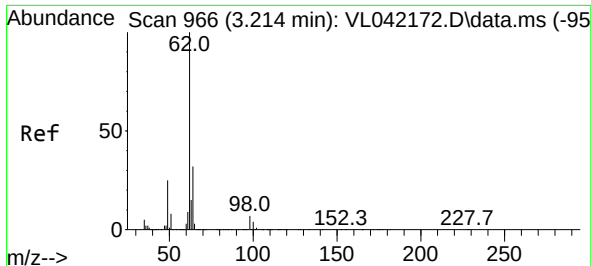
Ion Ratio Lower Upper

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# 91

Delta R.T. -0.000 min

Lab File: VL042177.D

Acq: 27 Mar 2025 11:03

Instrument :

MSVOA_L

ClientSampleId :

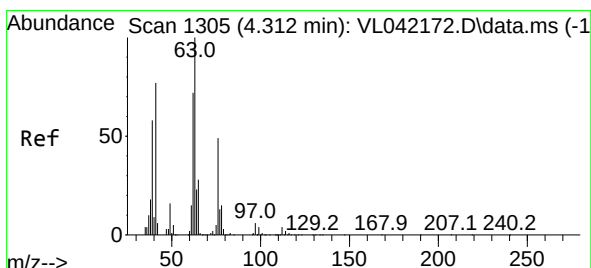
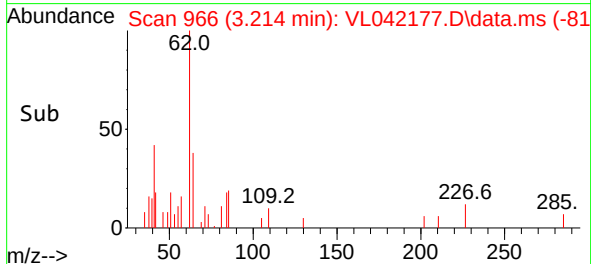
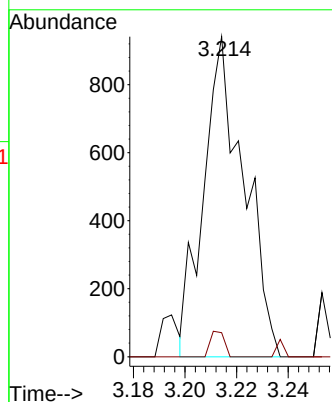
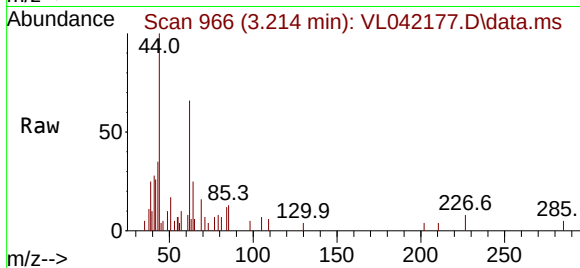
VSTDICC0.03

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

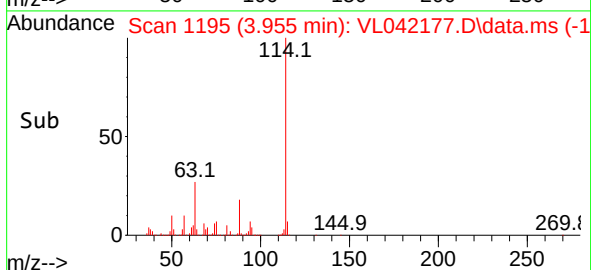
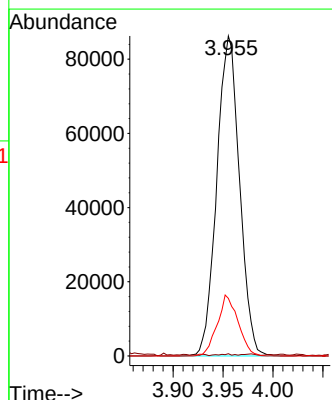
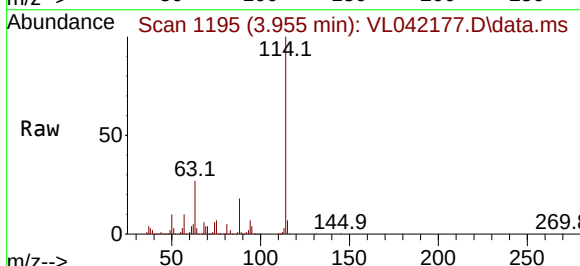
Tgt Ion: 63 Resp: 136518

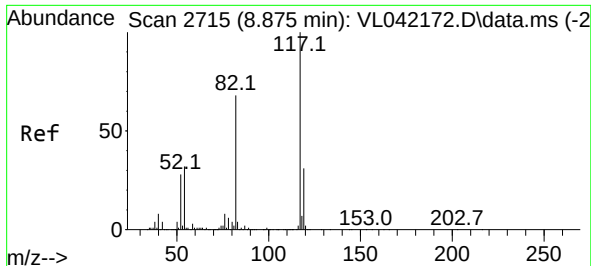
Ion Ratio Lower Upper

63 100

41 0.4 61.7 92.5#

62 18.0 57.6 86.4#

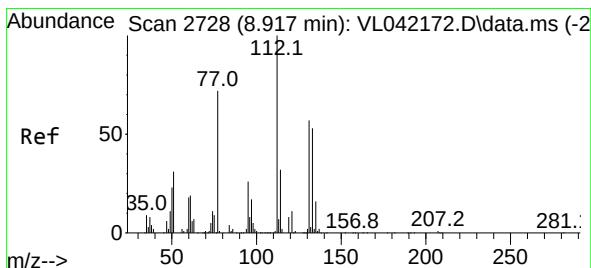
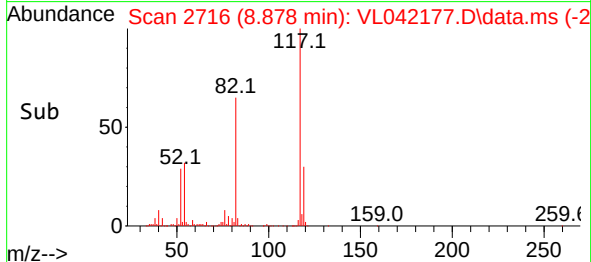
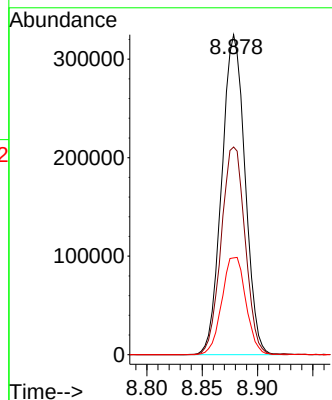
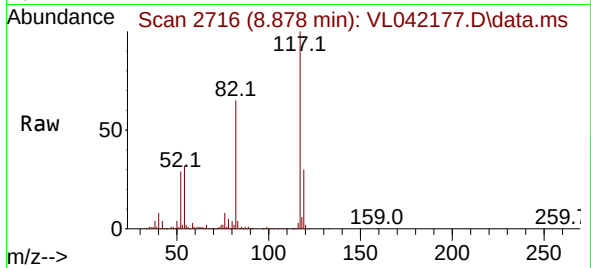




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

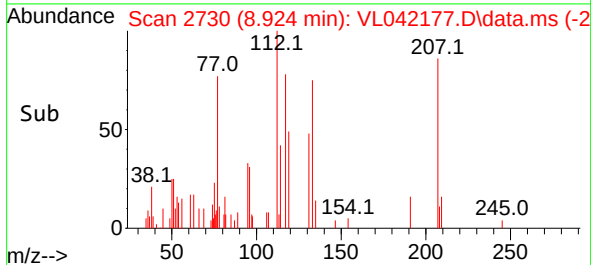
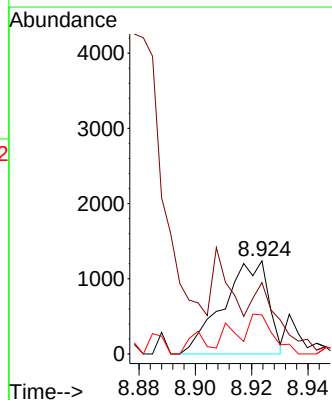
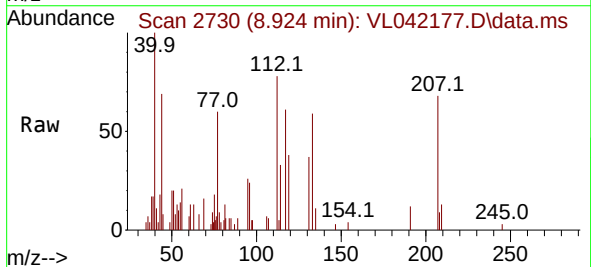
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.03

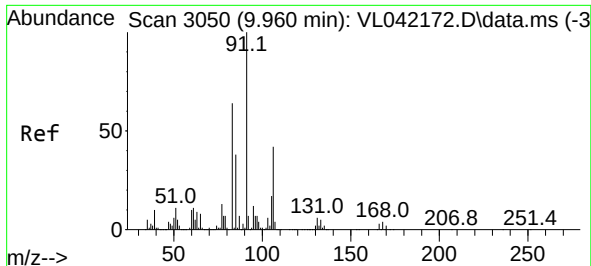
Tgt Ion:117 Resp: 475617
Ion Ratio Lower Upper
117 100
82 66.7 55.8 83.6
119 31.5 25.5 38.3



#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 :

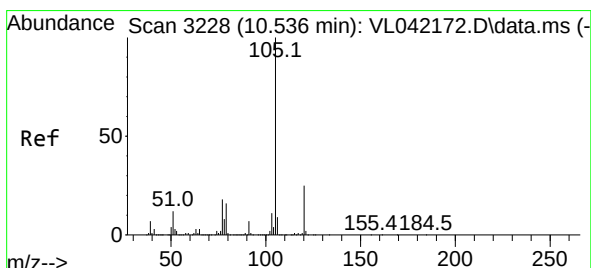
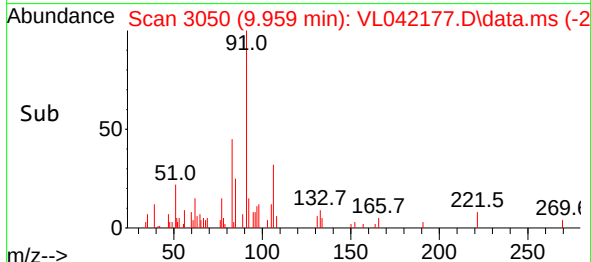
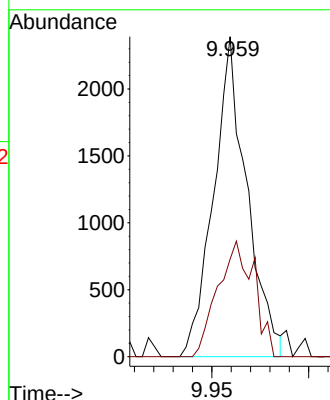
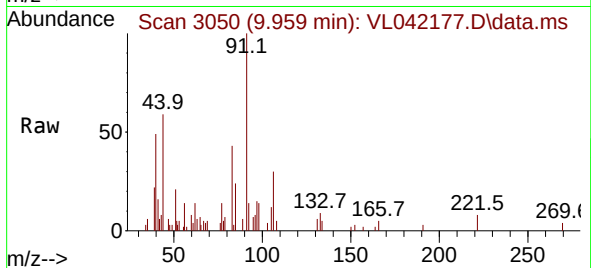
VSTDICC0.03

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

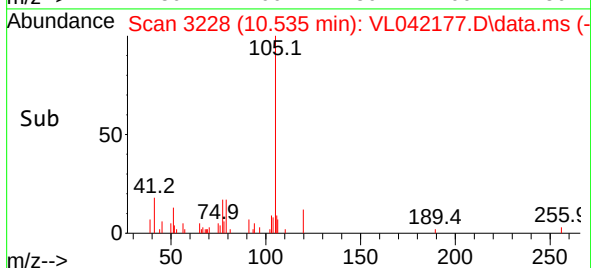
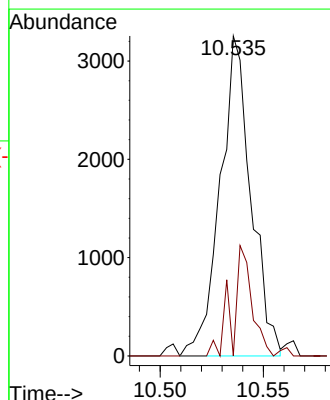
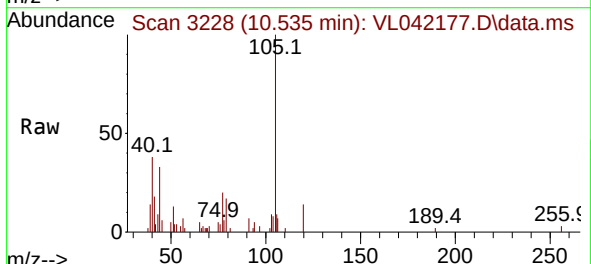
Acq: 27 Mar 2025 11:03

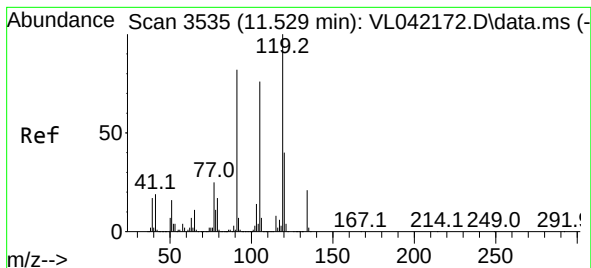
Tgt Ion: 105 Resp: 3380

Ion Ratio Lower Upper

105 100

120 22.3 19.9 29.9

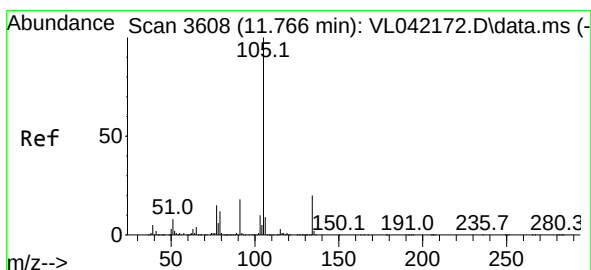
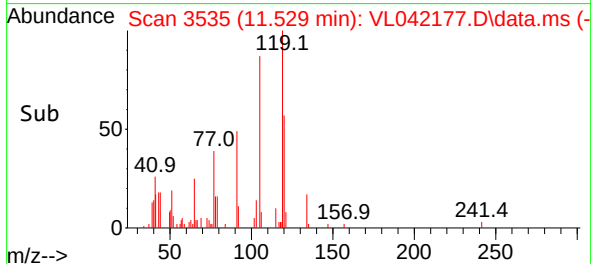
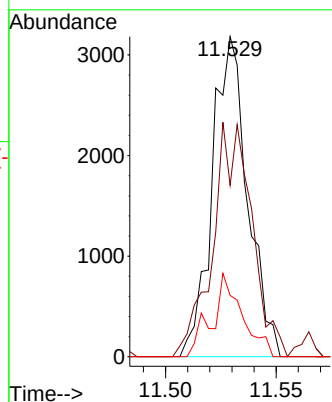
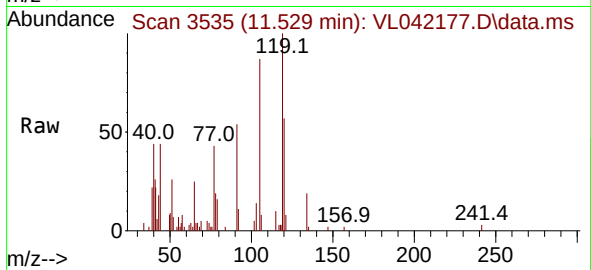




#65
tert-Butylbenzene
Concen: 0.038 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

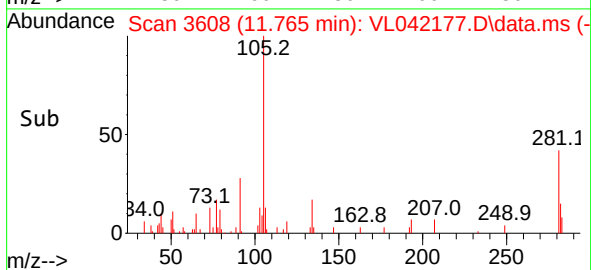
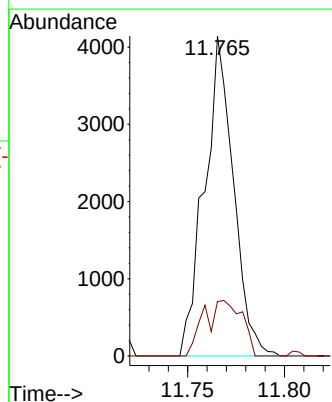
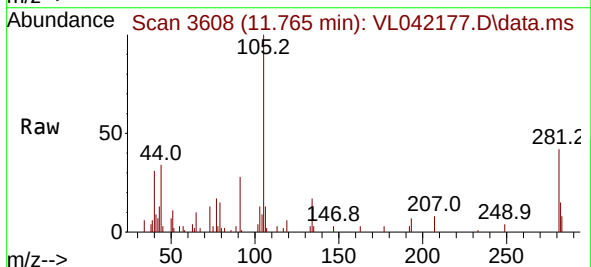
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

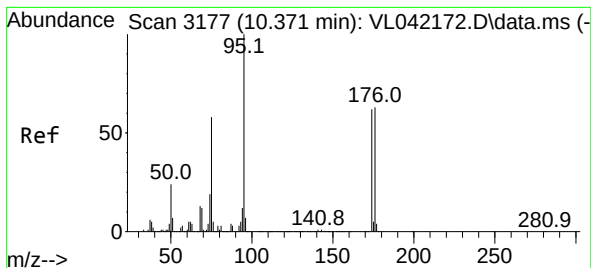
Tgt Ion:119 Resp: 3543
Ion Ratio Lower Upper
119 100
91 83.5 66.0 99.0
134 22.4 16.7 25.1



#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

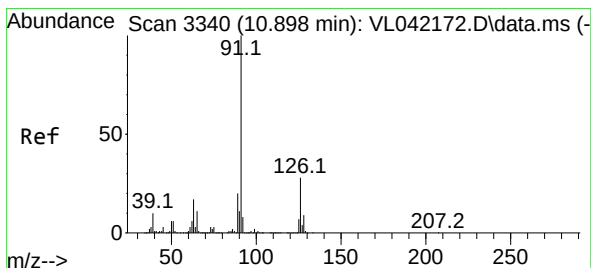
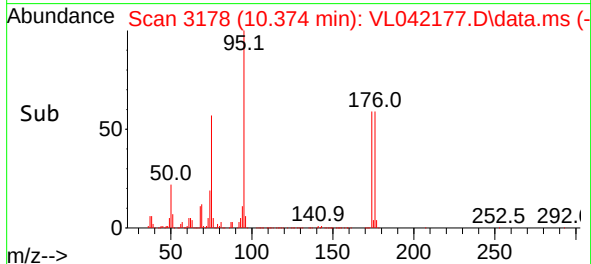
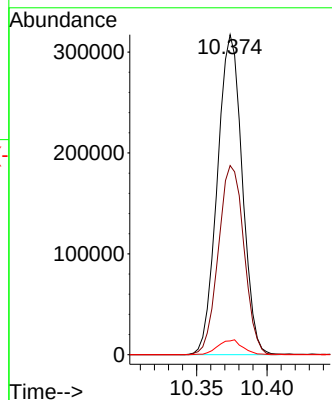
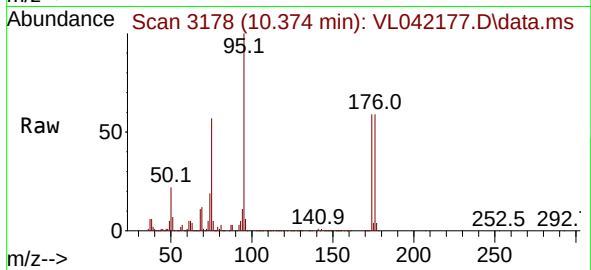




#68
1-Bromo-4-Fluorobenzene
Concen: 9.983 ppbv
RT: 10.374 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

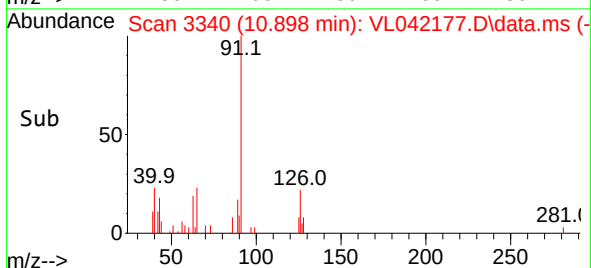
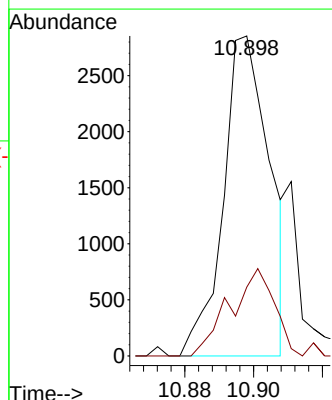
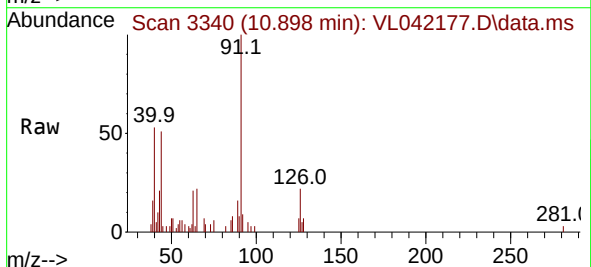
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

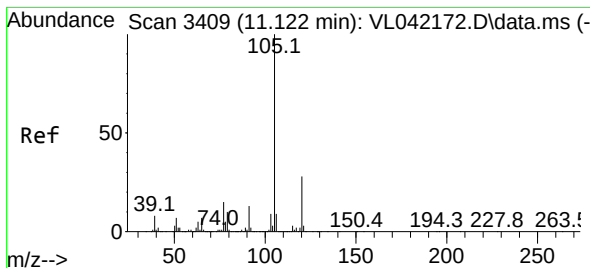
Tgt Ion: 95 Resp: 389935
Ion Ratio Lower Upper
95 100
174 61.2 50.6 76.0
175 4.6 3.8 5.6



#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

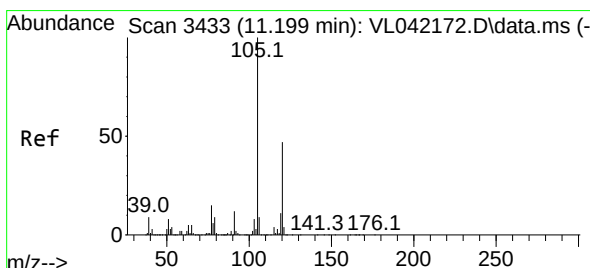
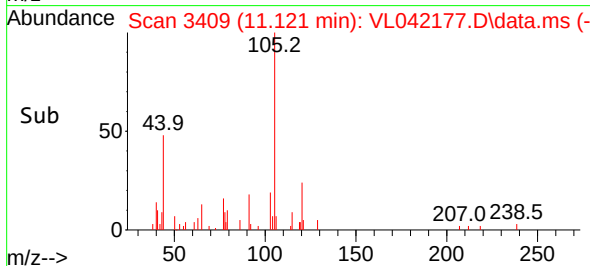
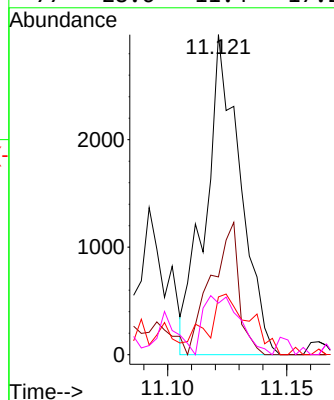
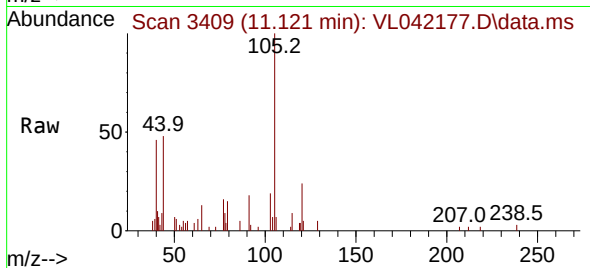




#72
4-Ethyltoluene
Concen: 0.036 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

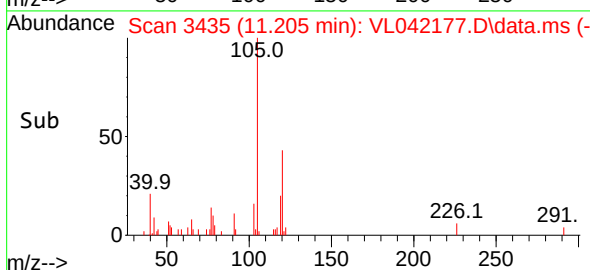
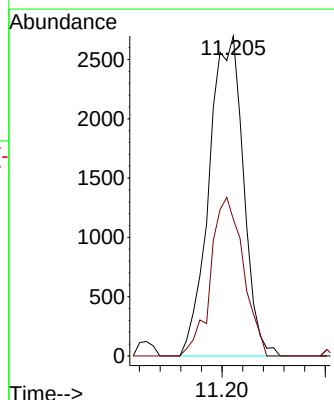
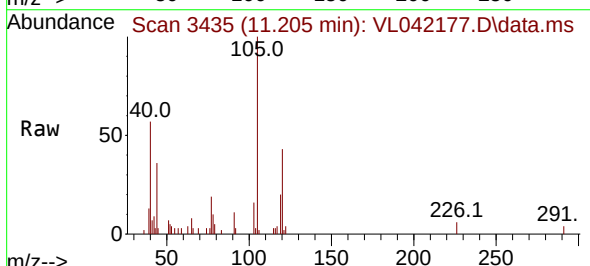
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

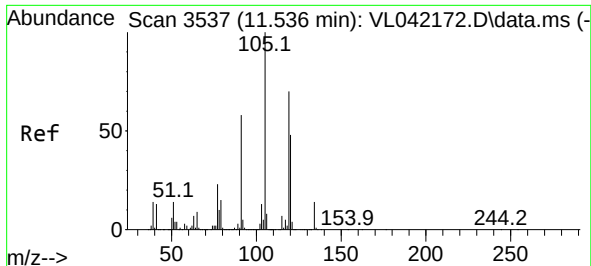
Tgt Ion:	105	Resp:	3017
Ion	Ratio	Lower	Upper
105	100		
120	44.5	23.4	35.0#
91	34.0	10.3	15.5#
77	28.6	11.4	17.2#



#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

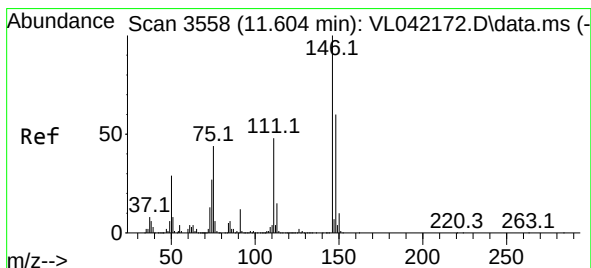
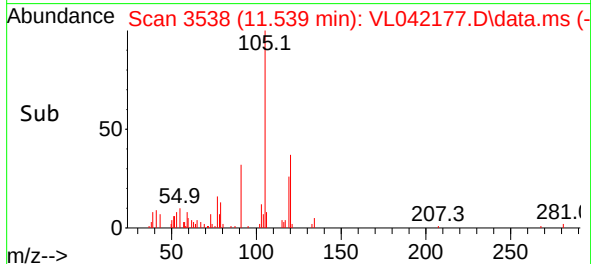
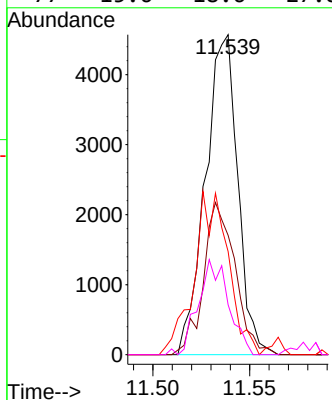
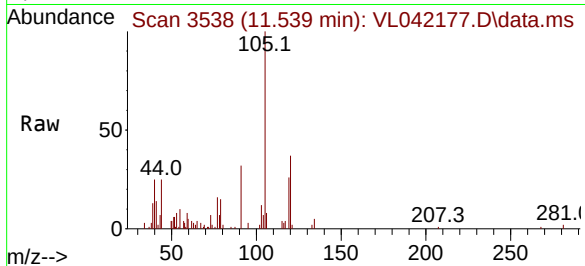




#74
1,2,4-Trimethylbenzene
Concen: 0.063 ppbv
RT: 11.539 min Scan# 3537
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

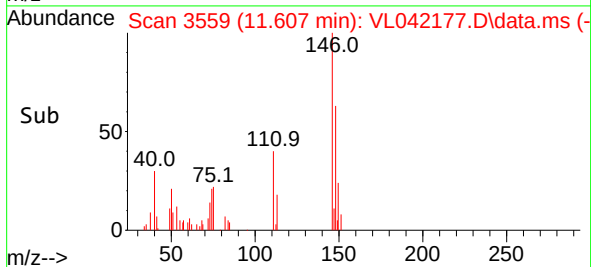
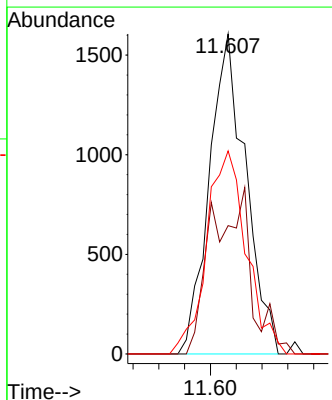
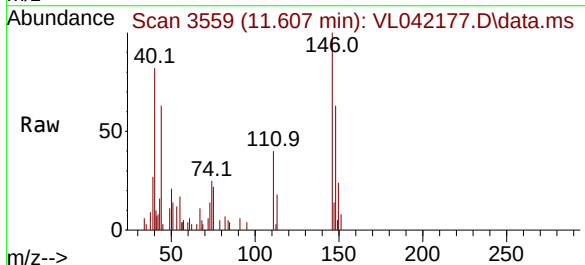
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

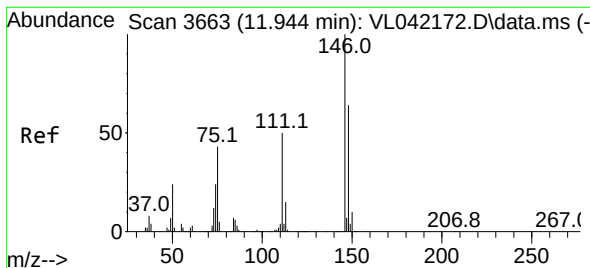
Tgt Ion:	105	Resp:	5313
Ion	Ratio	Lower	Upper
105	100		
120	37.3	38.6	58.0#
91	26.8	46.2	69.2#
77	15.6	18.6	27.8#



#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# 3

Delta R.T. 0.003 min

Lab File: VL042177.D

Acq: 27 Mar 2025 11:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

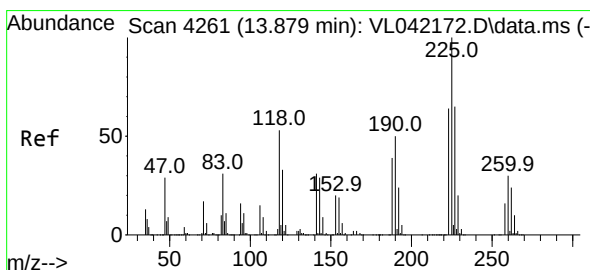
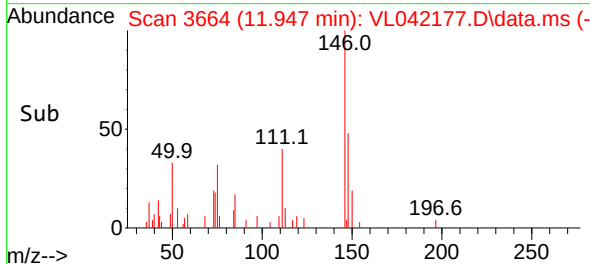
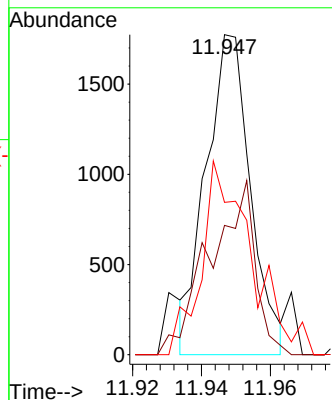
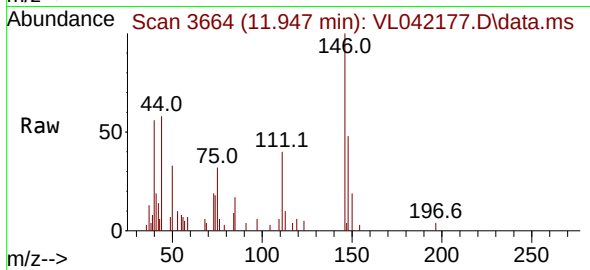
Tgt Ion:146 Resp: 1591

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

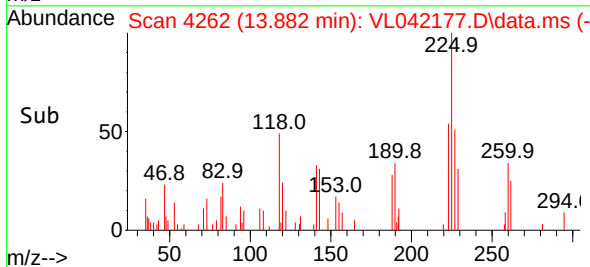
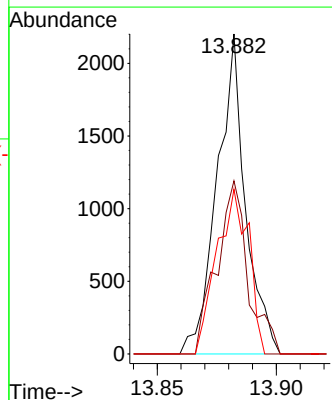
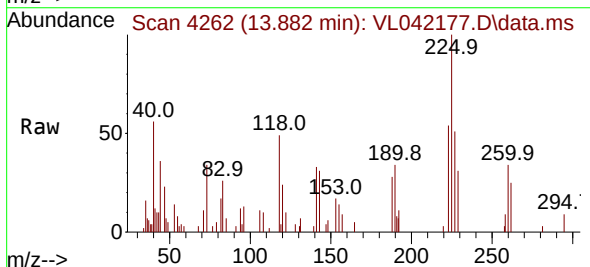
Tgt Ion:225 Resp: 1821

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

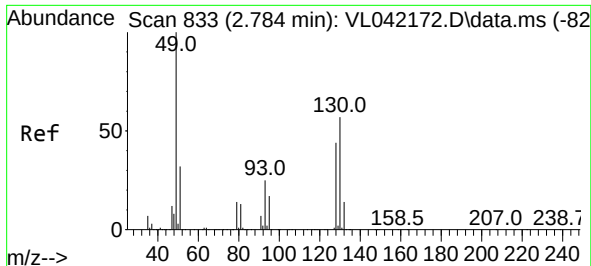
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 Data File : VL042178.D
 Acq On : 27 Mar 2025 11:36
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

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)
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

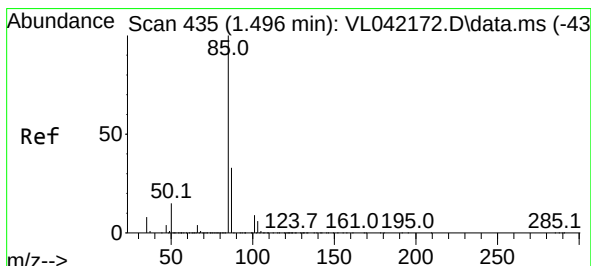
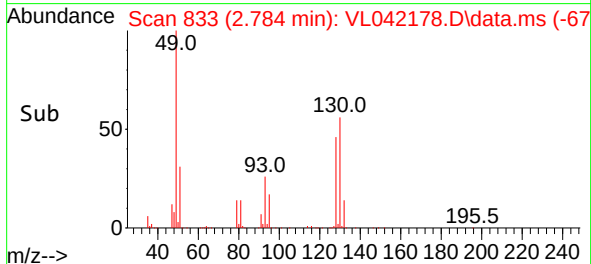
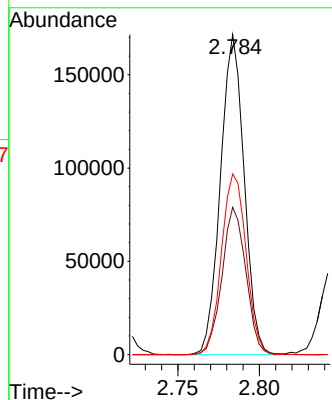
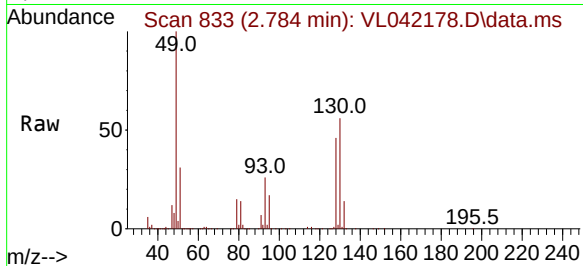
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#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

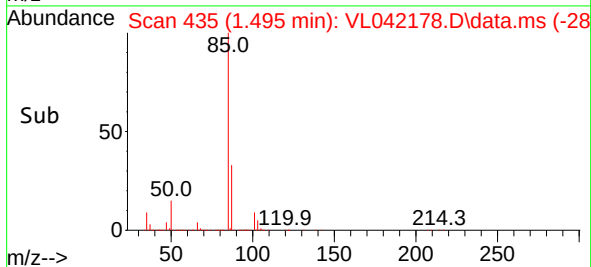
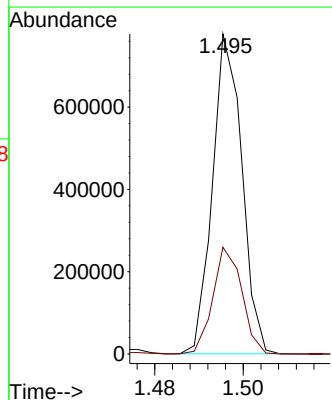
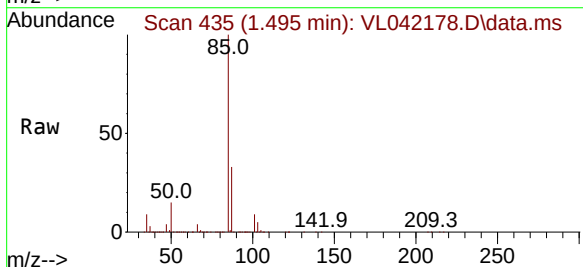
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

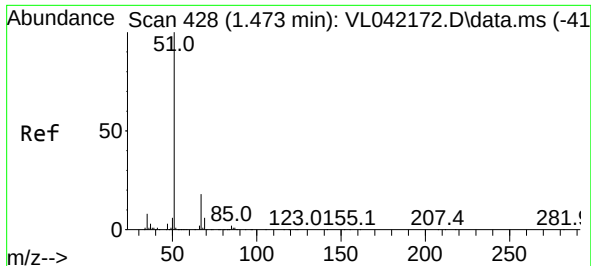
Tgt Ion: 49 Resp: 173372
Ion Ratio Lower Upper
49 100
128 46.4 22.9 68.5
130 58.7 28.8 86.4



#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

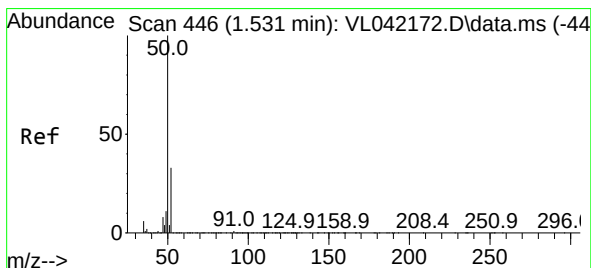
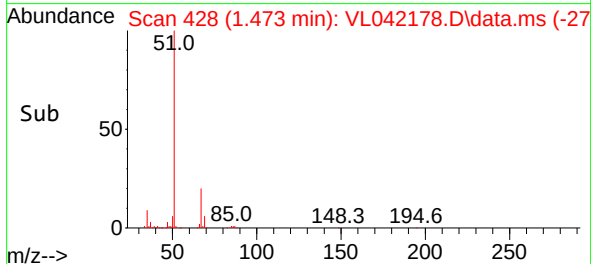
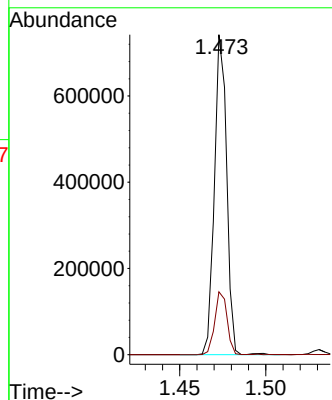
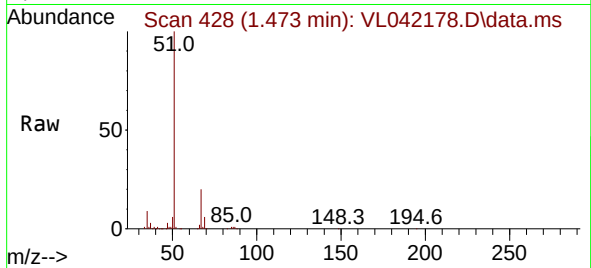




#3
Chlorodifluoromethane
Concen: 14.002 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

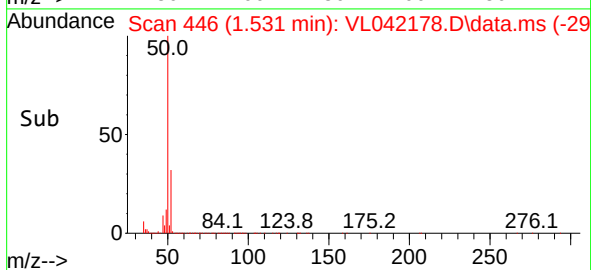
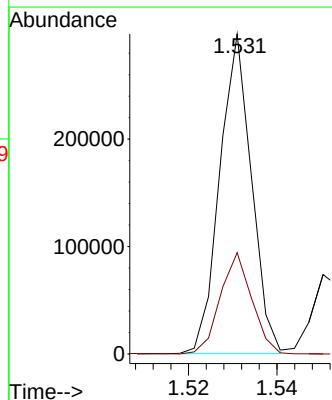
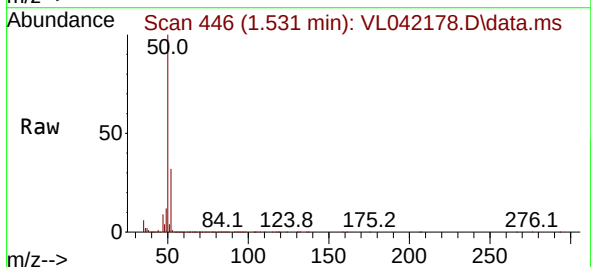
Instrument :
MSVOA_L
ClientSampleId :
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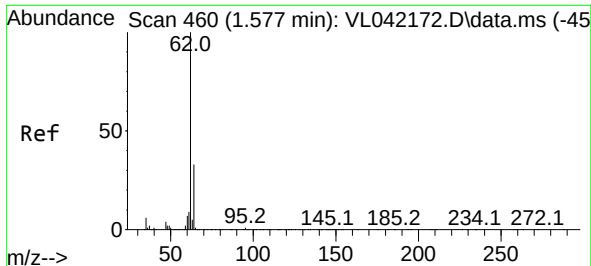
Tgt Ion: 51 Resp: 366164
Ion Ratio Lower Upper
51 100
67 19.8 15.0 22.6



#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

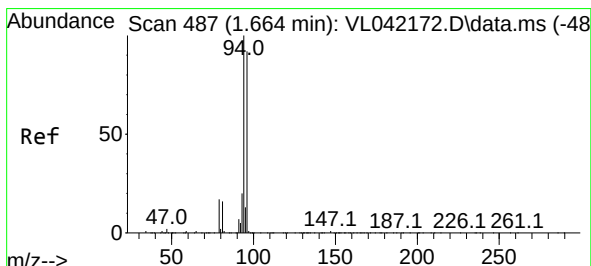
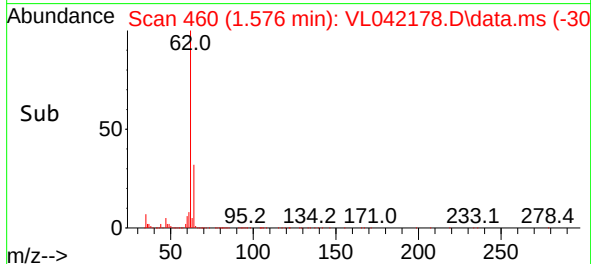
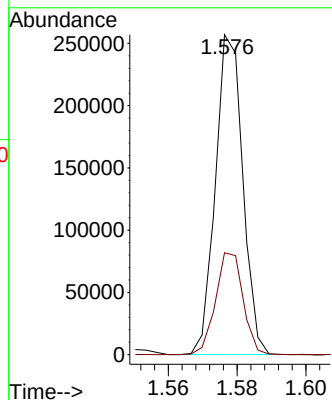
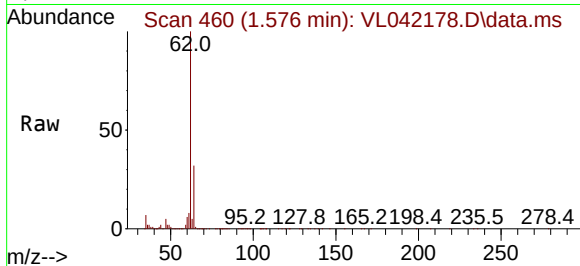




#5
 Vinyl Chloride
 Concen: 13.304 ppbv
 RT: 1.576 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

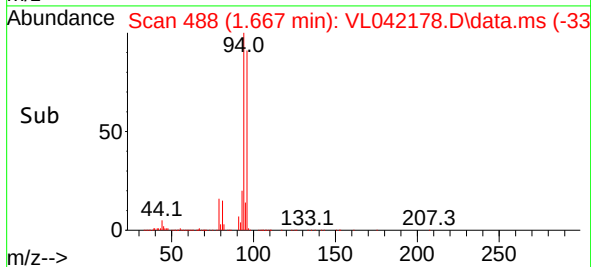
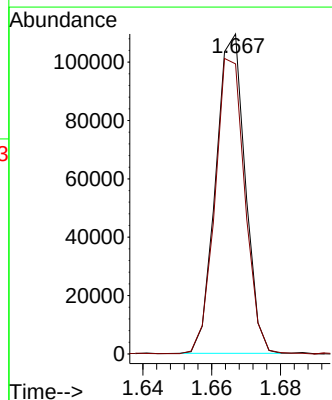
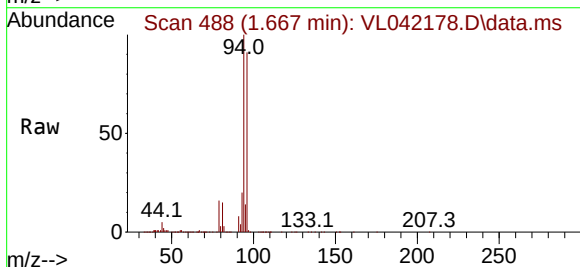
Instrument :
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 ClientSampleId :
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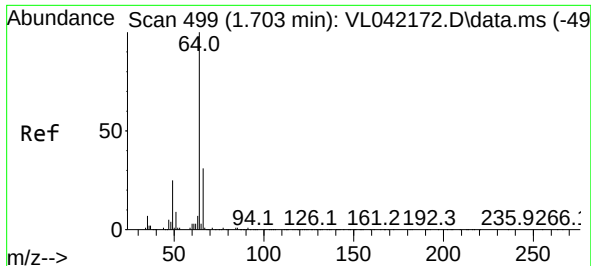
Tgt Ion: 62 Resp: 141938
 Ion Ratio Lower Upper
 62 100
 64 31.9 26.6 40.0



#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

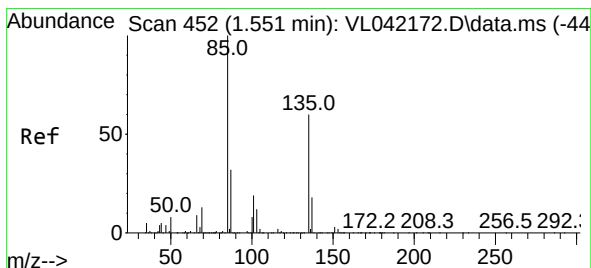
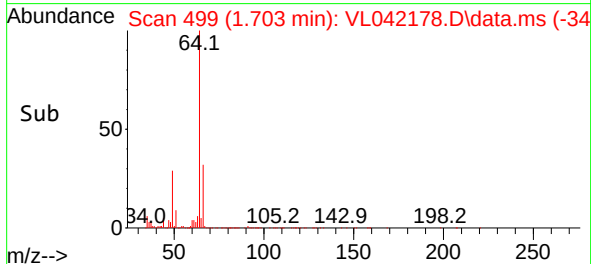
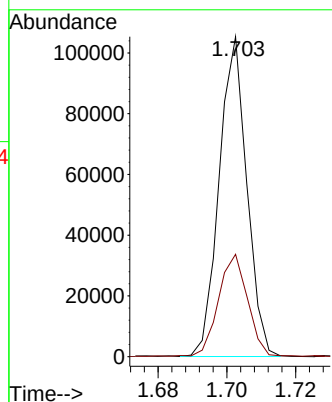
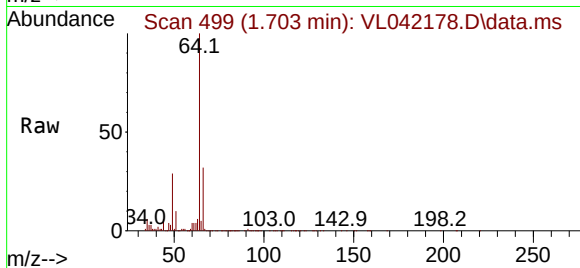




#7
Chloroethane
Concen: 14.007 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

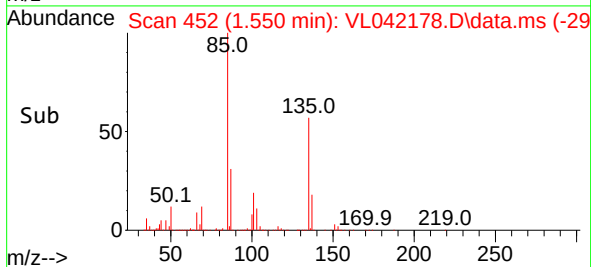
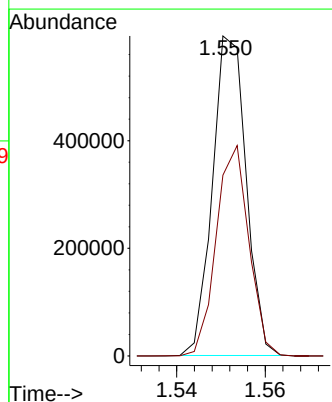
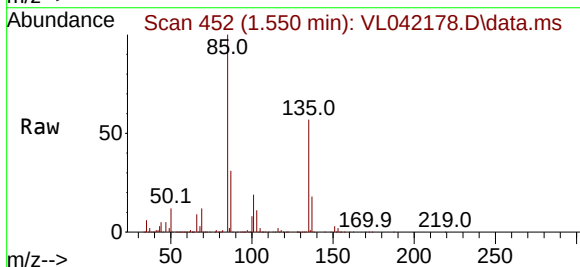
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

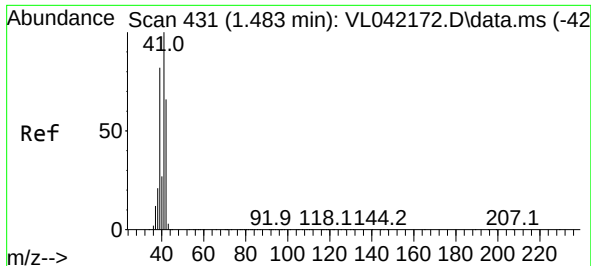
Tgt Ion: 64 Resp: 58820
Ion Ratio Lower Upper
64 100
66 32.0 25.2 37.8



#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

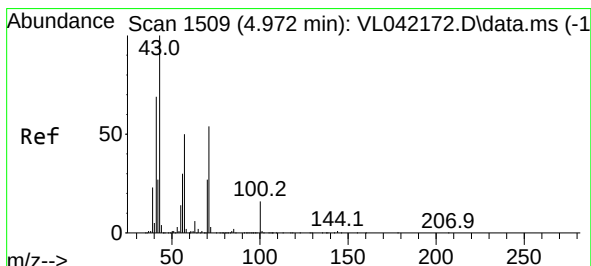
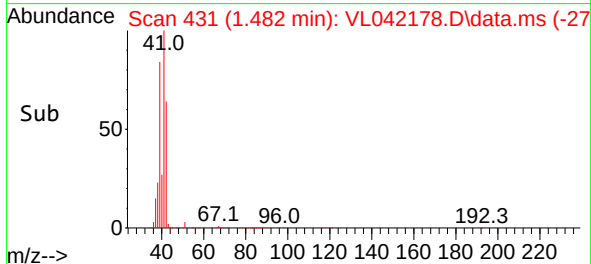
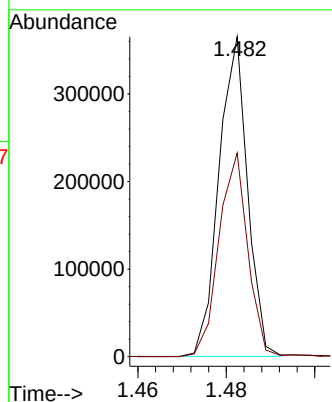
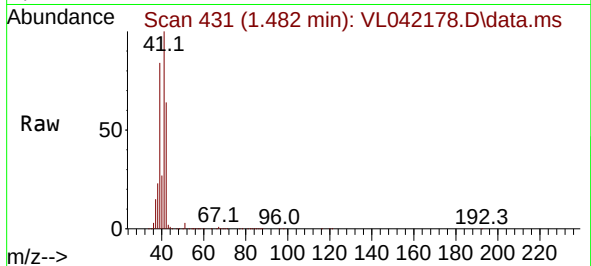




#9
 Propene
 Concen: 13.902 ppbv
 RT: 1.482 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

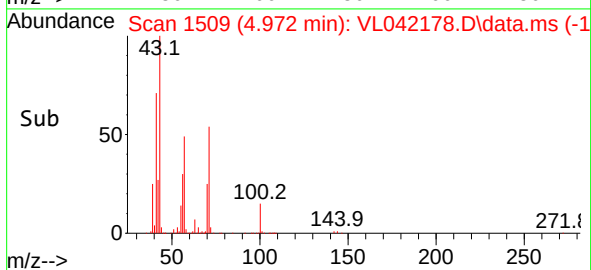
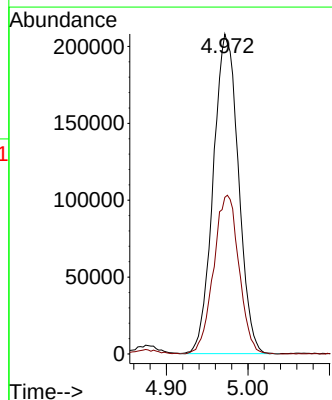
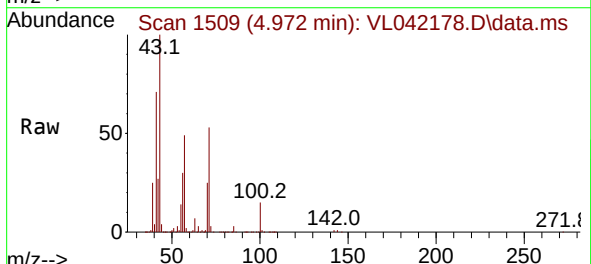
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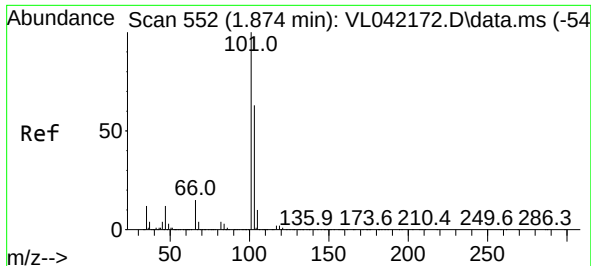
Tgt Ion: 41 Resp: 163799
 Ion Ratio Lower Upper
 41 100
 42 65.3 55.4 83.2



#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

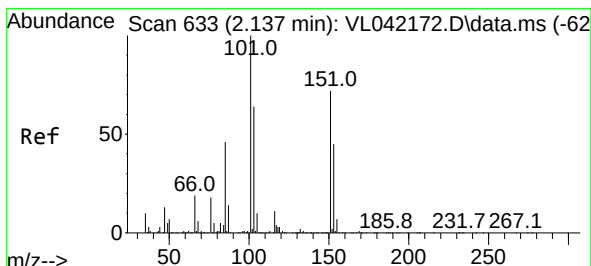
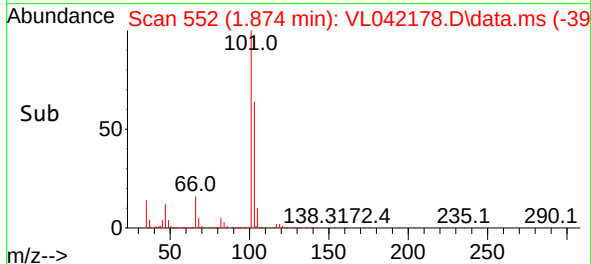
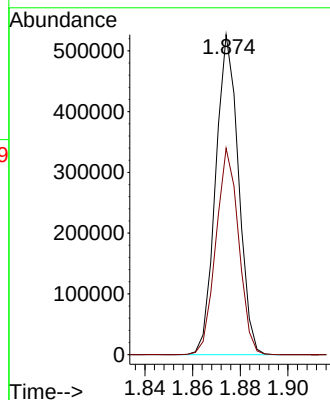
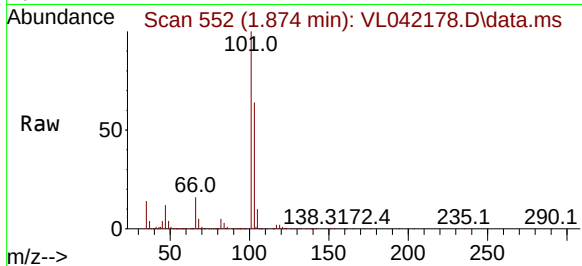




#11
 Trichlorofluoromethane
 Concen: 14.050 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

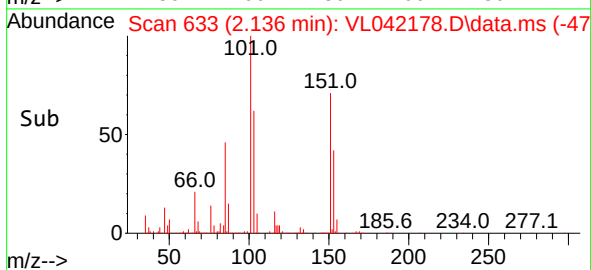
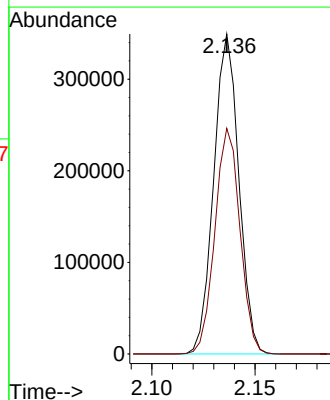
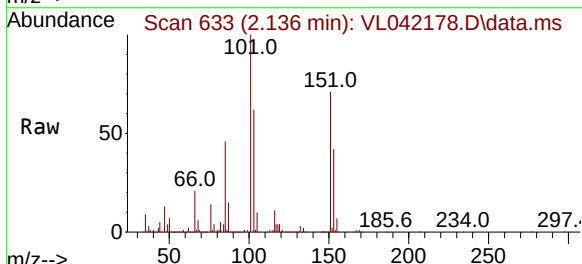
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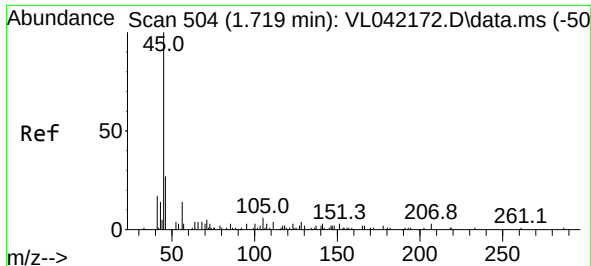
Tgt Ion:101 Resp: 349967
 Ion Ratio Lower Upper
 101 100
 103 64.5 50.2 75.2



#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

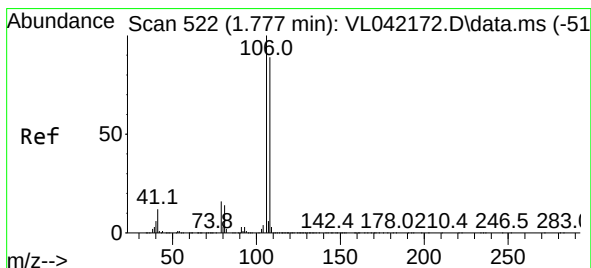
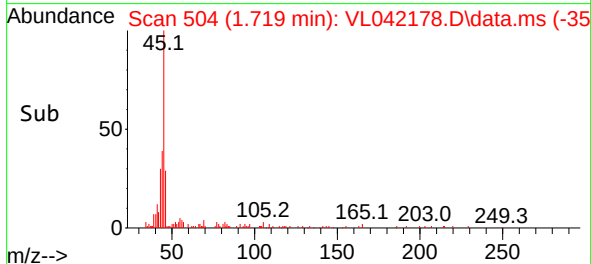
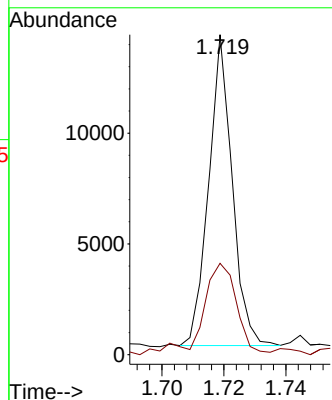
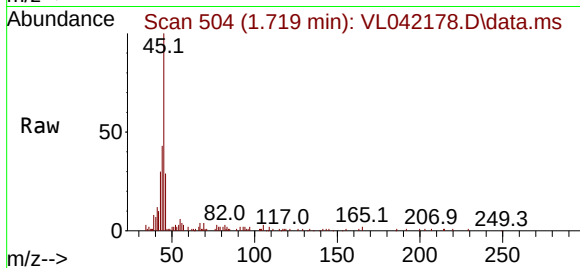




#13
Ethanol
Concen: 8.001 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

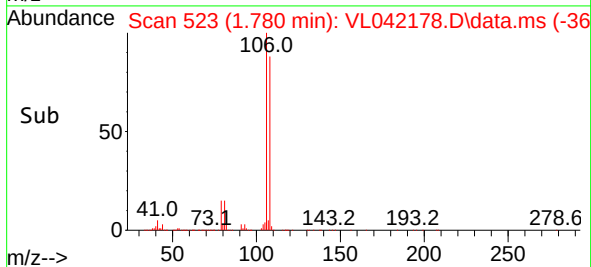
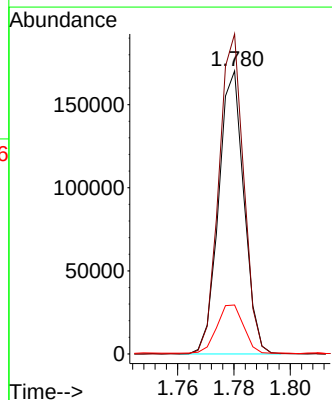
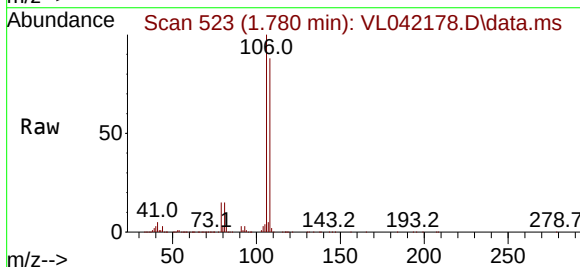
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MSVOA_L
ClientSampleId :
VSTDIC015

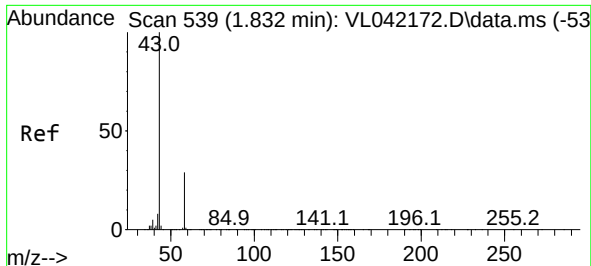
Tgt Ion: 45 Resp: 7382
Ion Ratio Lower Upper
45 100
46 44.6 20.2 80.8



#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

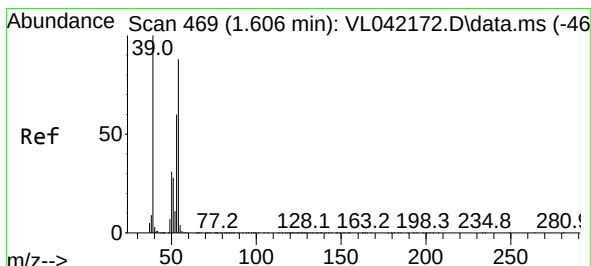
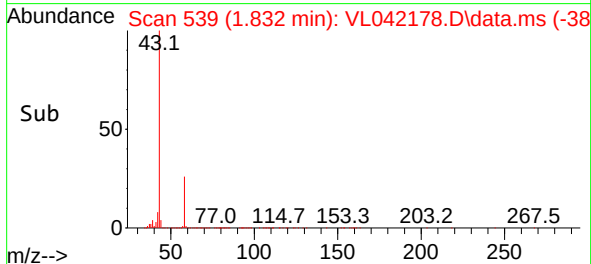
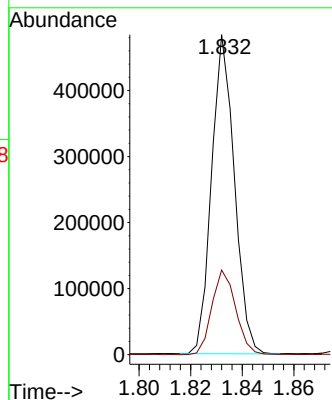
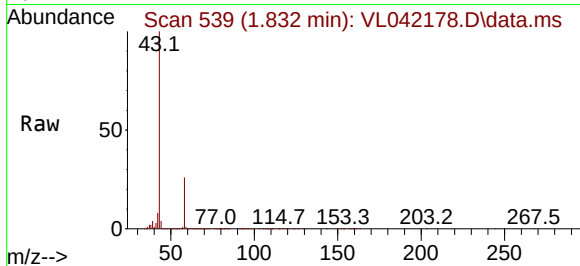




#15
Acetone
Concen: 12.218 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

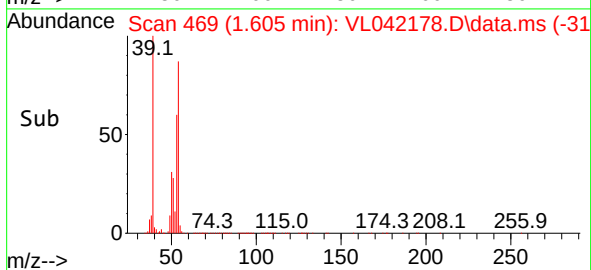
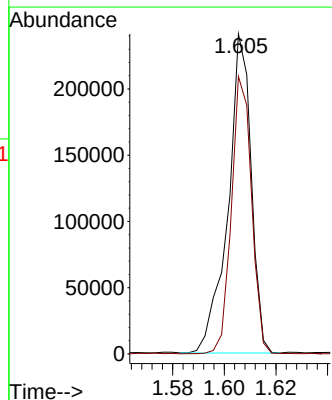
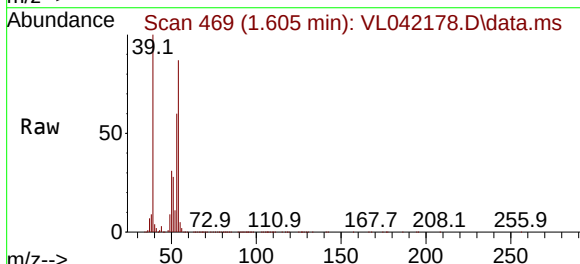
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

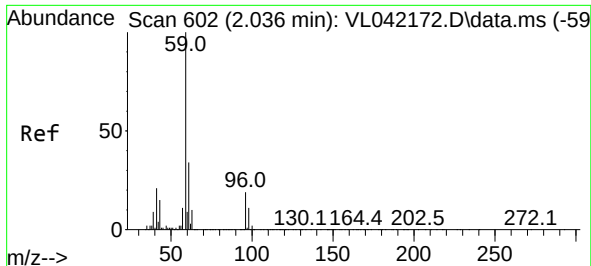
Tgt Ion: 43 Resp: 296254
Ion Ratio Lower Upper
43 100
58 27.7 23.2 34.8



#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_L

ClientSampleId :

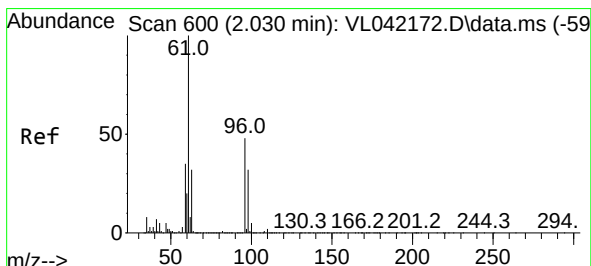
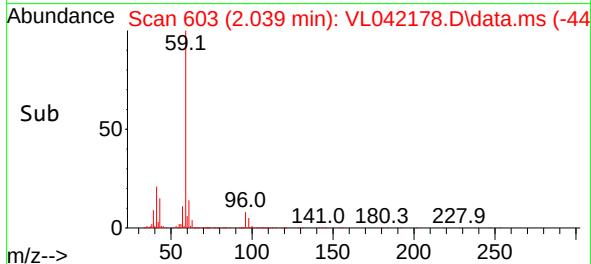
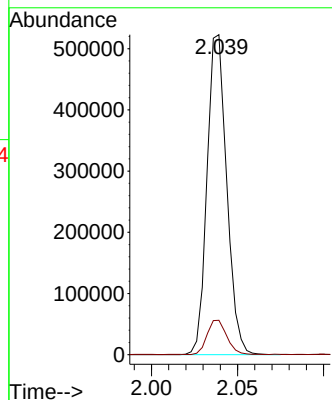
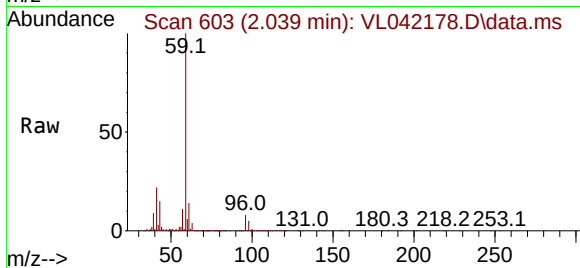
VSTDIC015

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

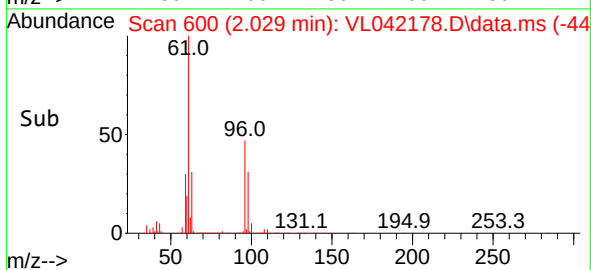
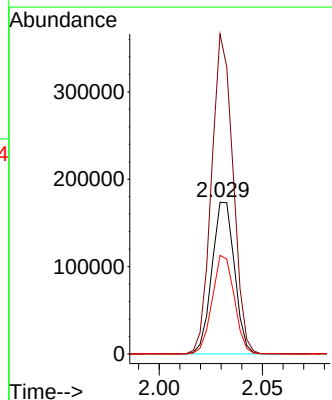
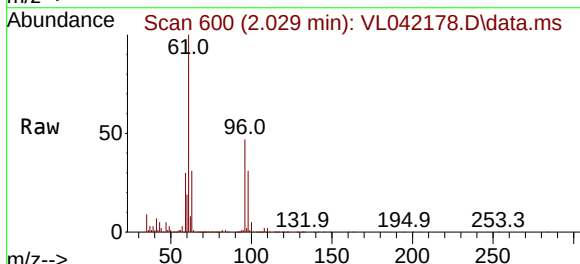
Tgt Ion: 96 Resp: 131720

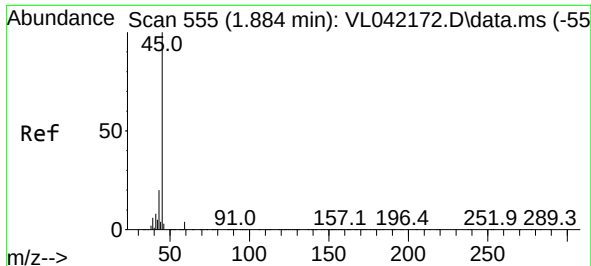
Ion Ratio Lower Upper

96 100

61 211.1 167.6 251.4

98 64.9 53.5 80.3

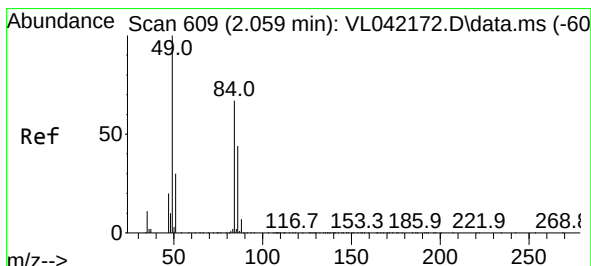
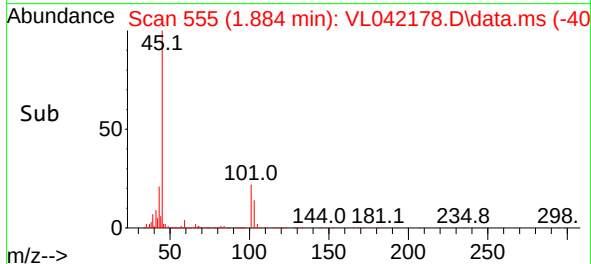
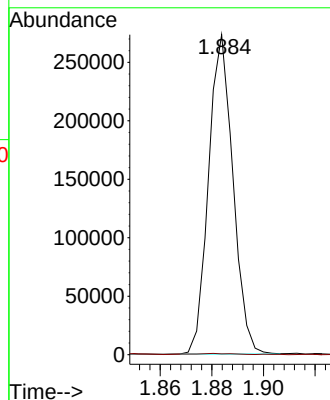
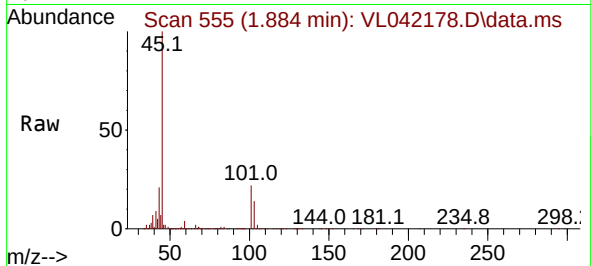




#19
Isopropyl Alcohol
Concen: 13.093 ppbv
RT: 1.884 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

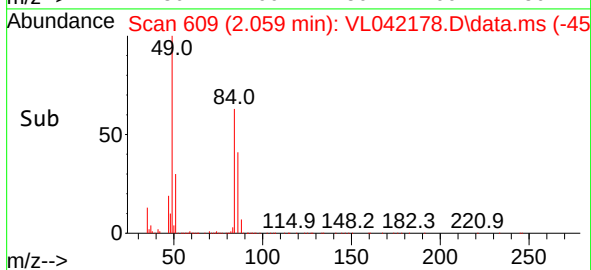
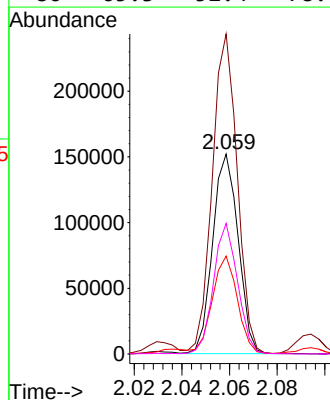
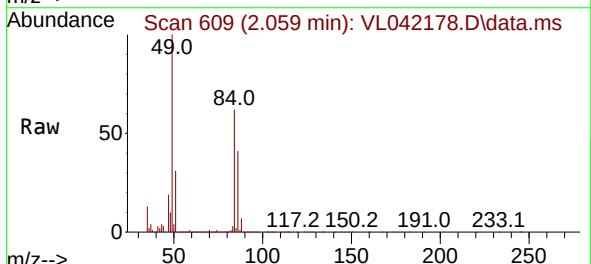
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

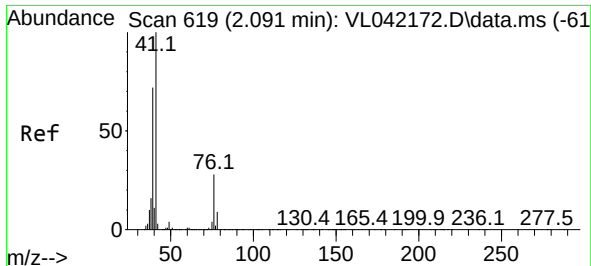
Tgt Ion: 45 Resp: 179117
Ion Ratio Lower Upper
45 100
58 46.4 36.9 55.3



#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

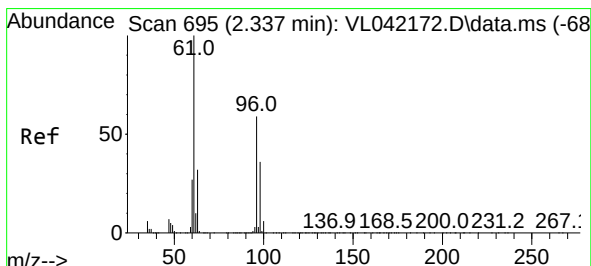
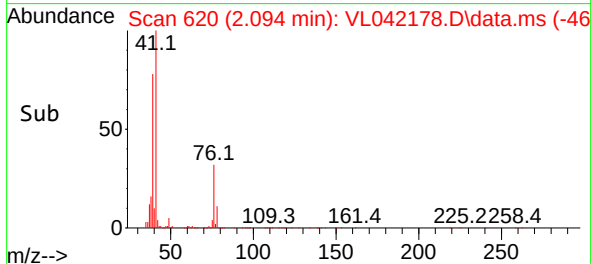
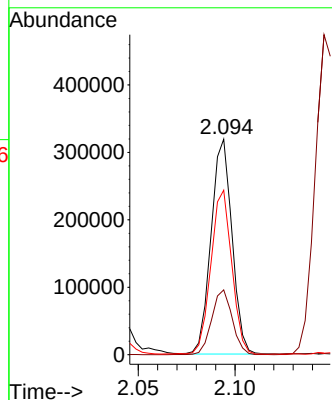
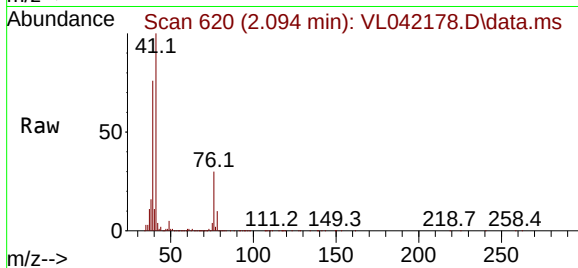
Tgt Ion: 41 Resp: 239440

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

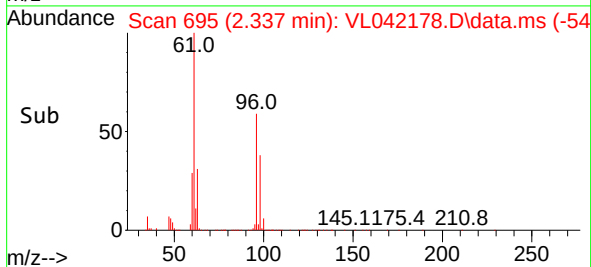
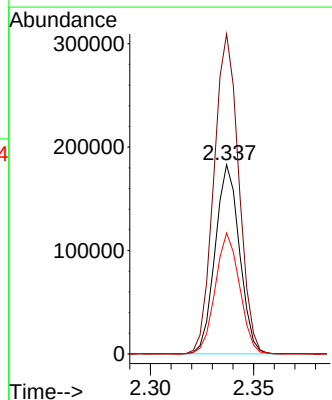
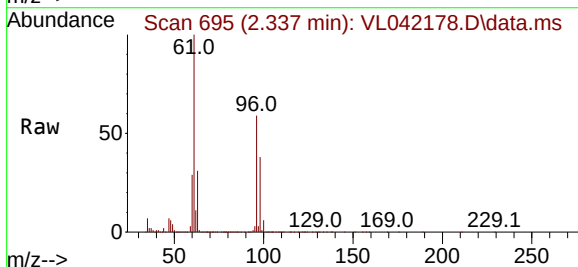
Tgt Ion: 96 Resp: 149455

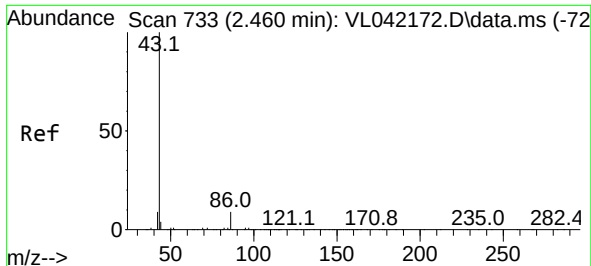
Ion Ratio Lower Upper

96 100

61 169.2 136.6 204.8

98 63.9 49.4 74.2



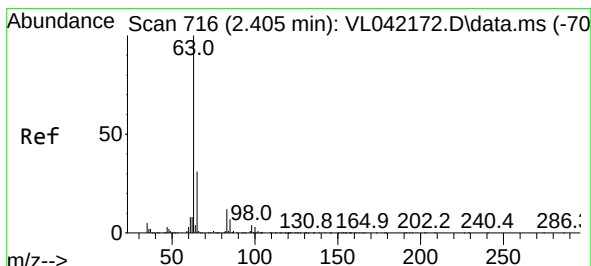
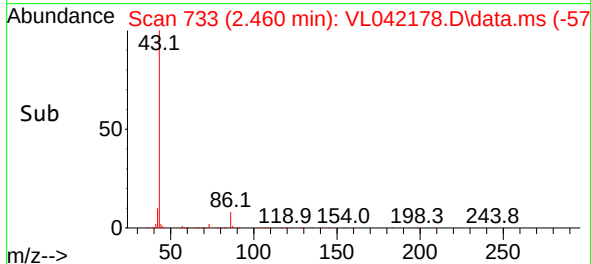
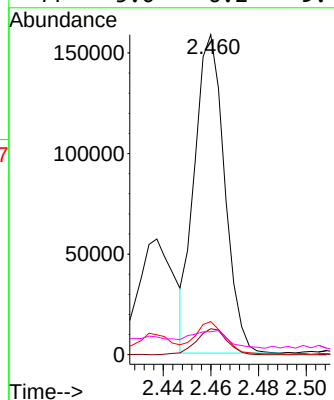
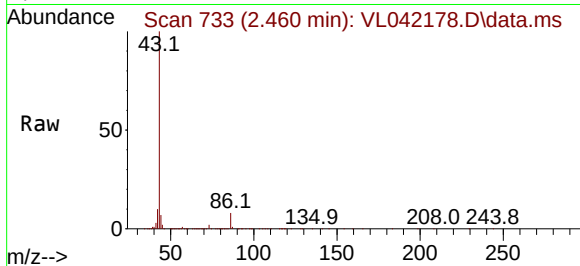


#23
 Vinyl Acetate
 Concen: 13.736 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

Tgt Ion: 43 Resp: 138419

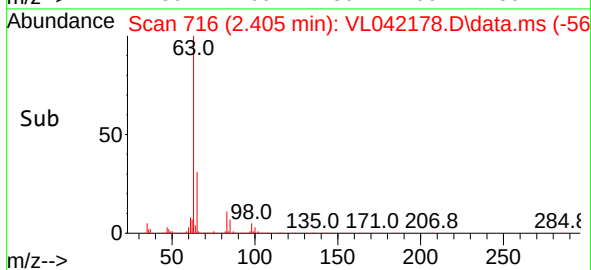
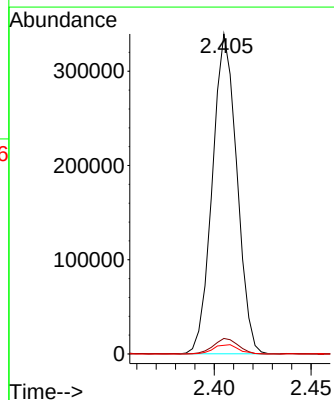
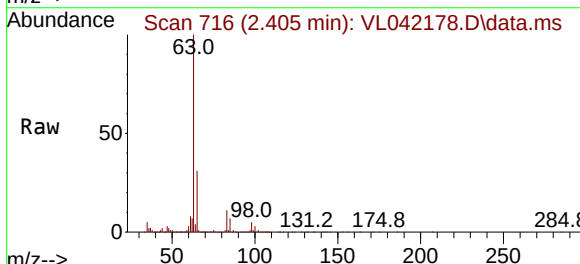
Ion	Ratio	Lower	Upper
43	100		
86	8.1	5.5	8.3
42	10.1	8.6	13.0
44	5.0	6.2	9.4

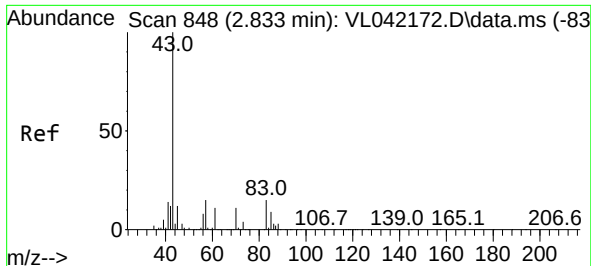


#24
 1,1-Dichloroethane
 Concen: 14.570 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

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



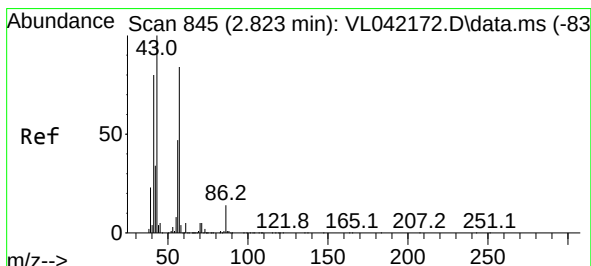
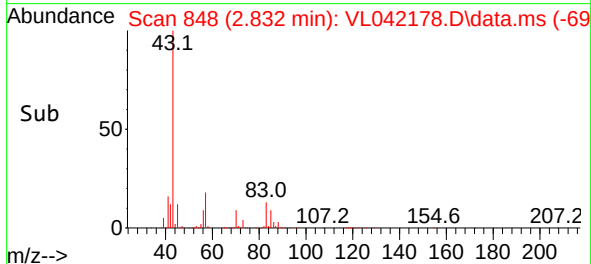
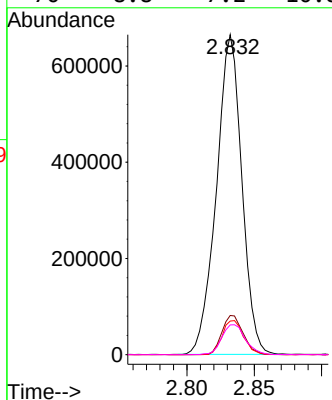
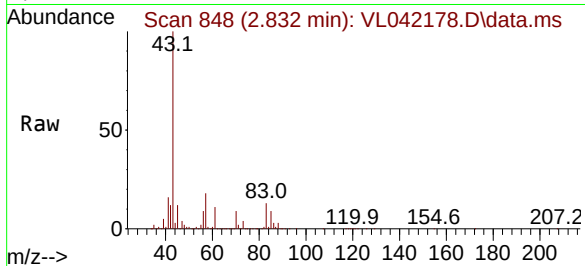


#25
Ethyl Acetate
Concen: 13.855 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 43 Resp: 871882

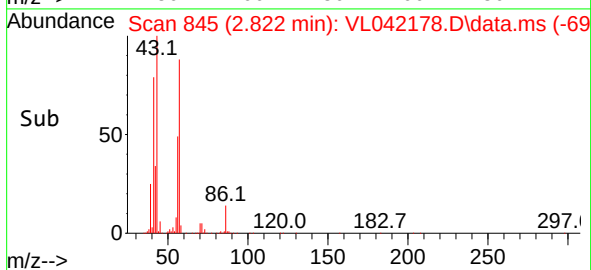
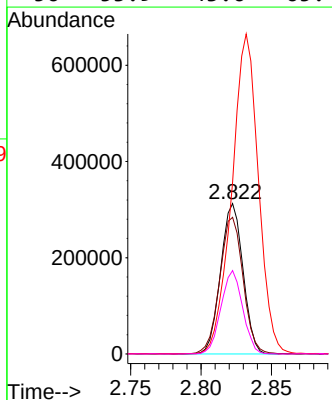
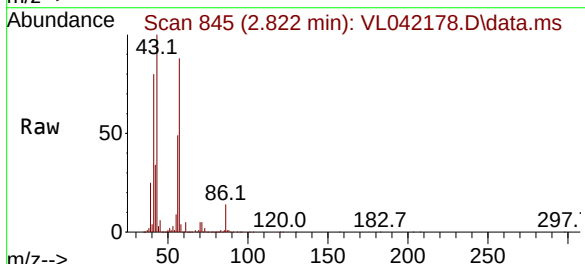
Ion	Ratio	Lower	Upper
43	100		
45	10.3	8.2	12.2
61	9.0	7.3	10.9
70	8.8	7.2	10.8

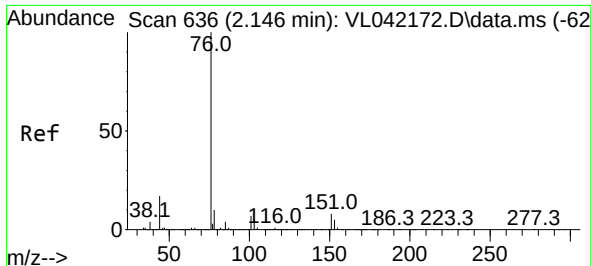


#26
Hexane
Concen: 14.178 ppbv
RT: 2.822 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

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

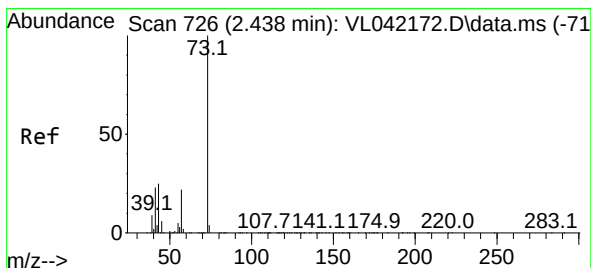
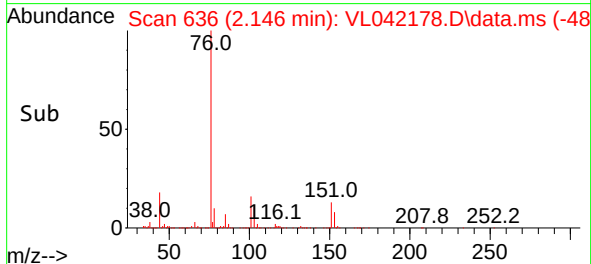
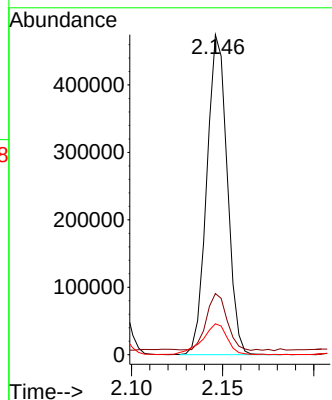
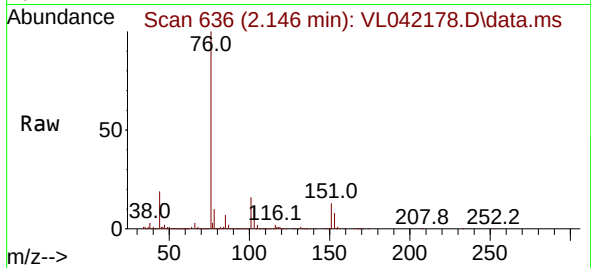




#27
Carbon Disulfide
Concen: 14.196 ppbv
RT: 2.146 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

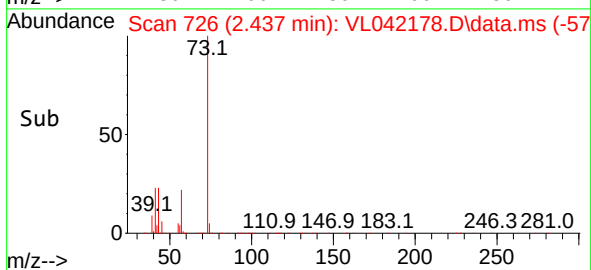
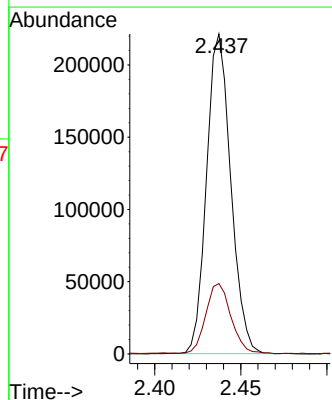
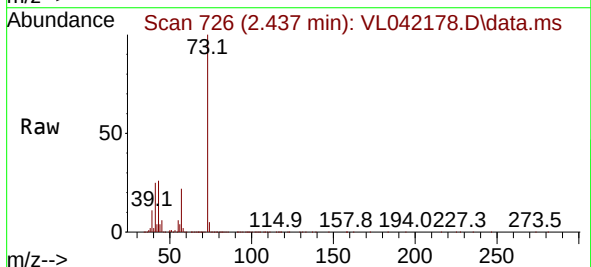
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

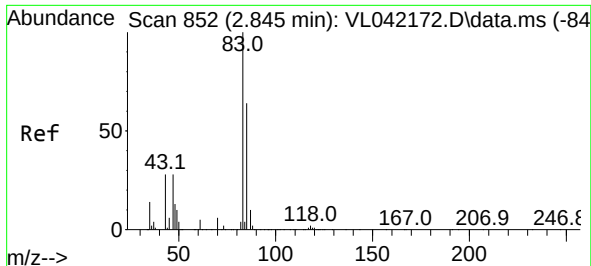
Tgt Ion: 76 Resp: 370022
Ion Ratio Lower Upper
76 100
44 20.3 14.7 22.1
78 11.7 9.3 13.9



#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

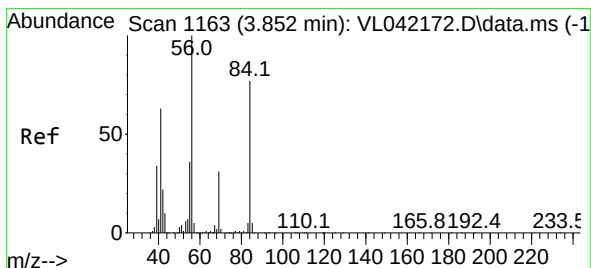
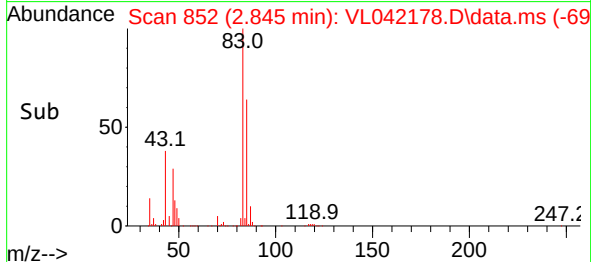
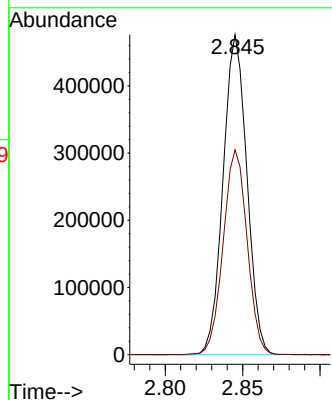
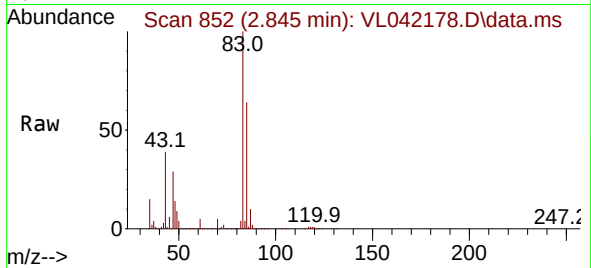




#29
Chloroform
Concen: 14.297 ppbv
RT: 2.845 min Scan# 852
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

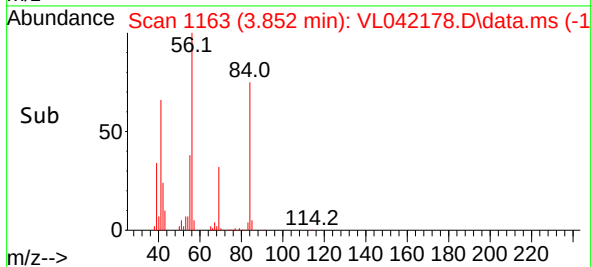
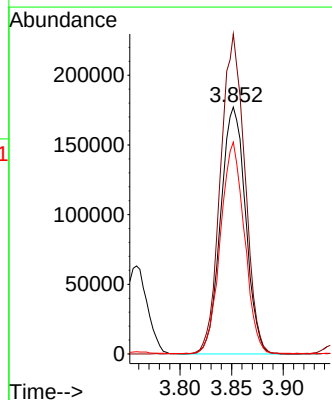
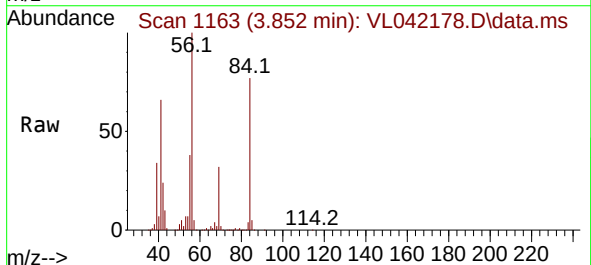
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

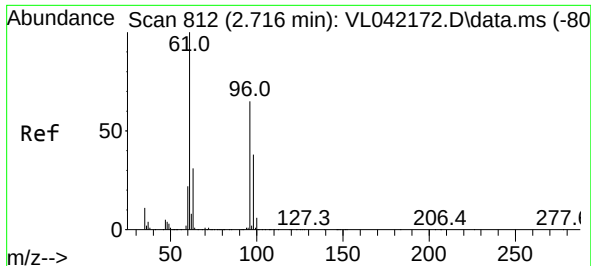
Tgt Ion: 83 Resp: 508614
Ion Ratio Lower Upper
83 100
85 64.0 51.4 77.2



#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

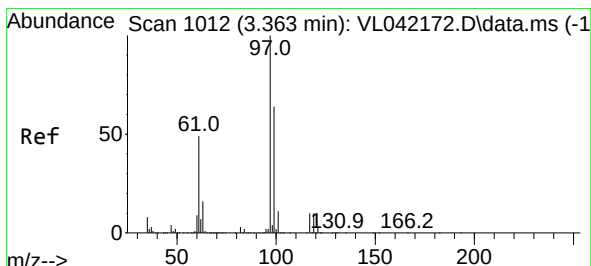
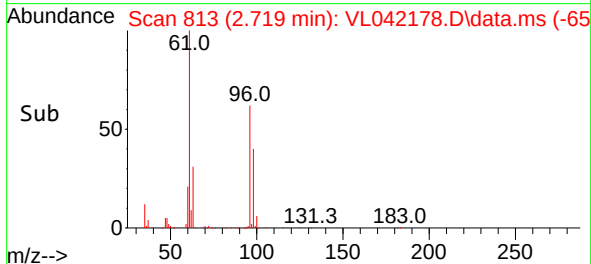
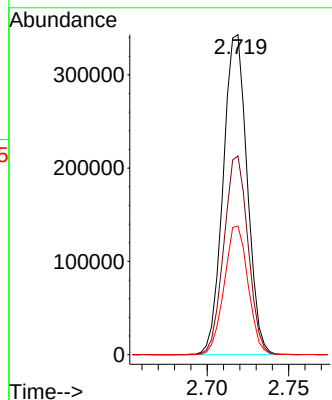
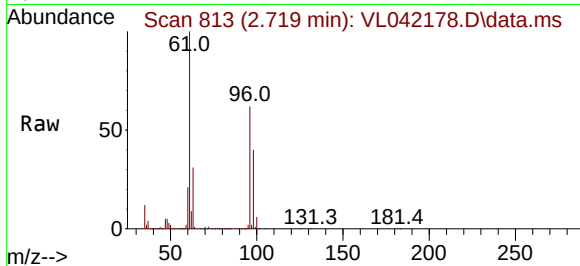




#31
 cis-1,2-Dichloroethene
 Concen: 14.262 ppbv
 RT: 2.719 min Scan# 812
 Delta R.T. 0.003 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

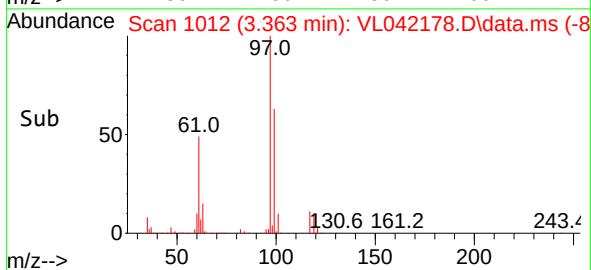
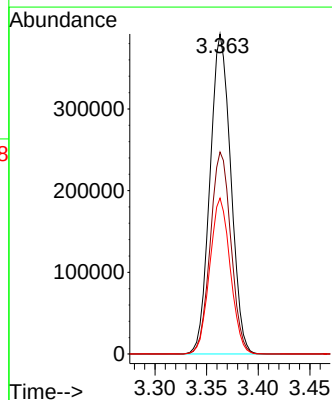
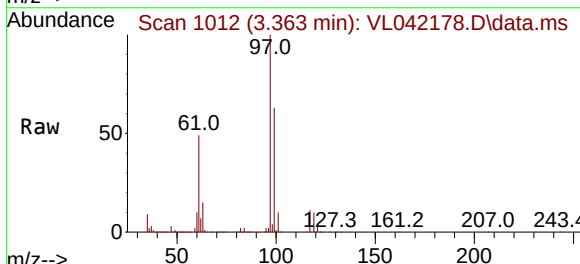
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

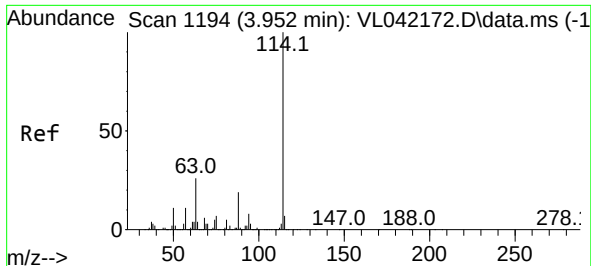
Tgt Ion: 61 Resp: 351945
 Ion Ratio Lower Upper
 61 100
 96 62.1 51.8 77.8
 98 40.2 30.6 46.0



#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

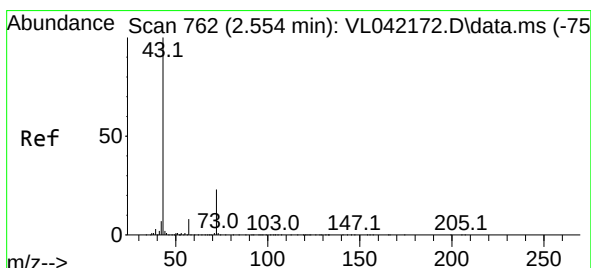
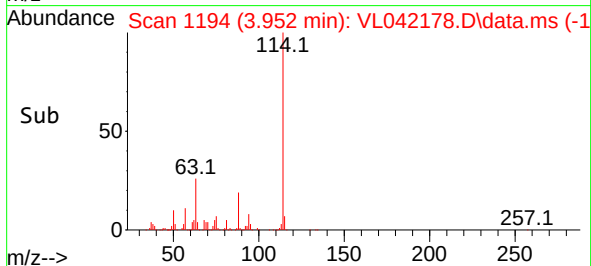
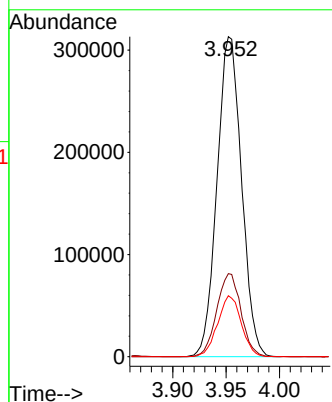
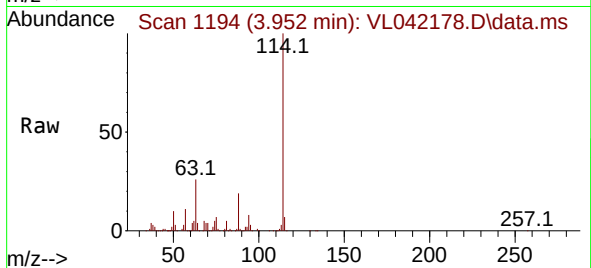
Tgt Ion:114 Resp: 499360

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

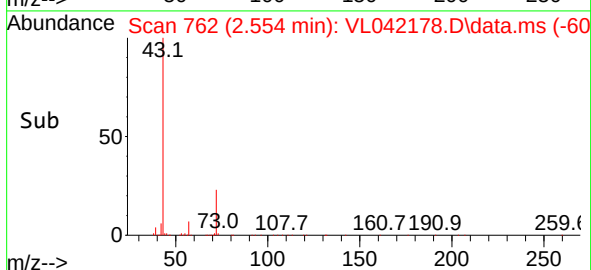
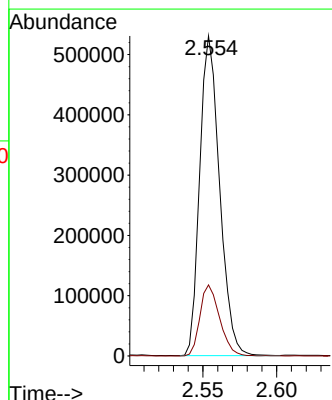
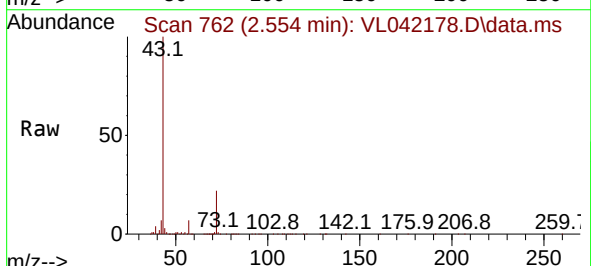
Acq: 27 Mar 2025 11:36

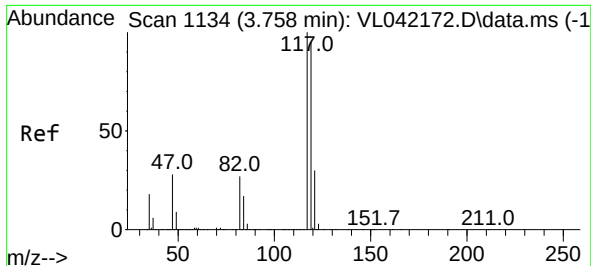
Tgt Ion: 43 Resp: 497020

Ion Ratio Lower Upper

43 100

72 22.0 18.2 27.2

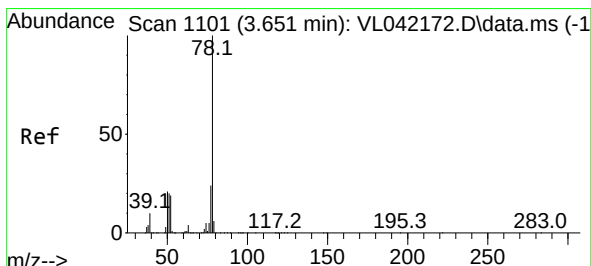
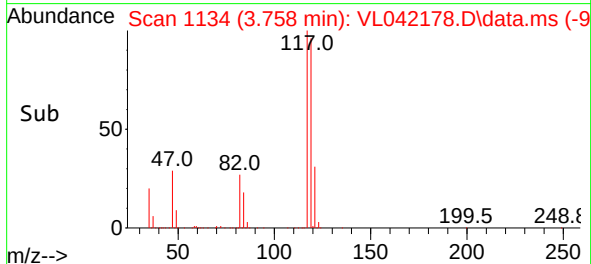
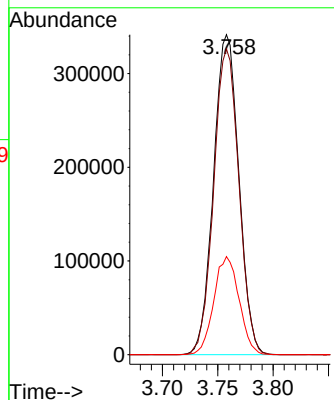
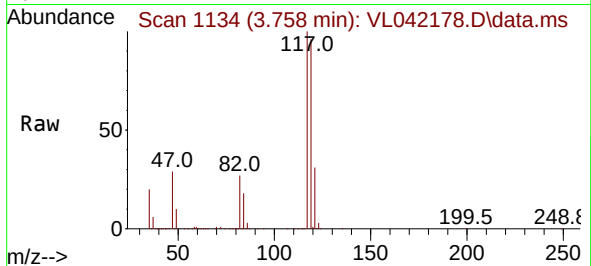




#35
Carbon Tetrachloride
Concen: 14.140 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

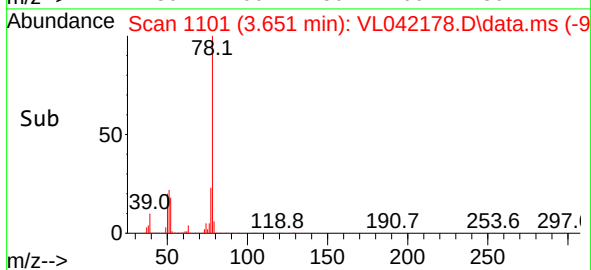
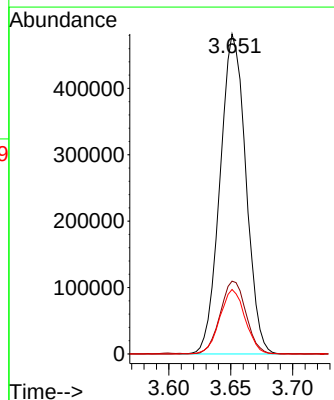
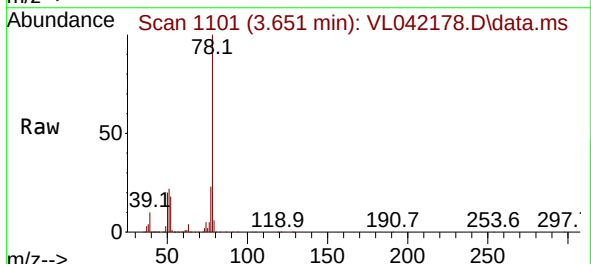
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

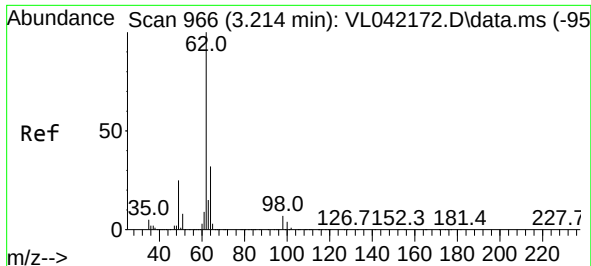
Tgt Ion:117 Resp: 543385
Ion Ratio Lower Upper
117 100
119 95.5 76.2 114.2
121 30.6 24.2 36.4



#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

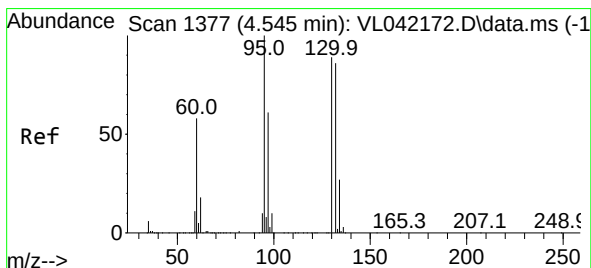
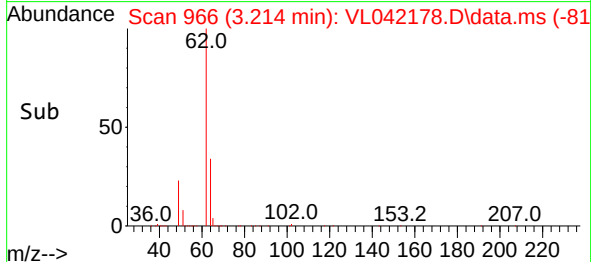
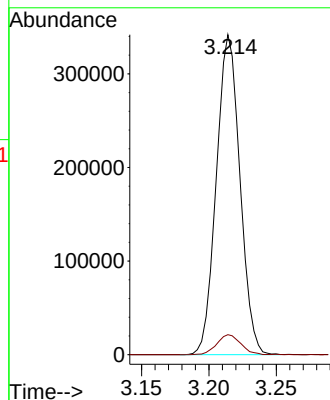
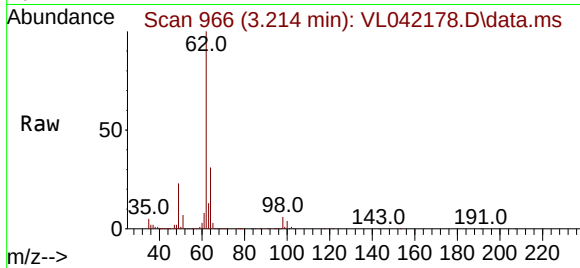




#37
1,2-Dichloroethane
Concen: 14.697 ppbv
RT: 3.214 min Scan# 966
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

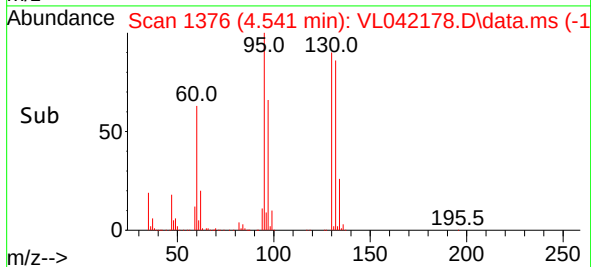
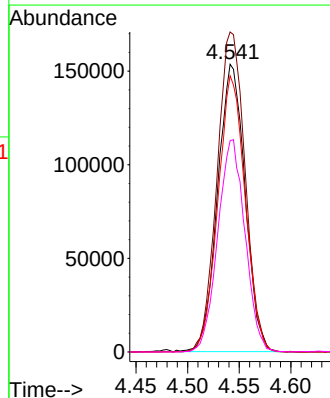
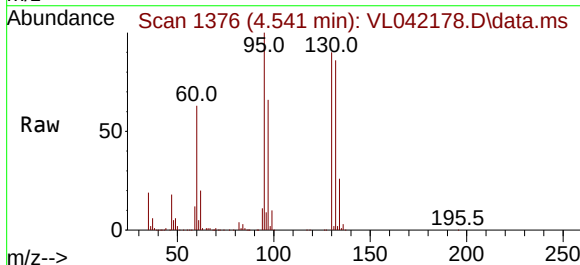
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

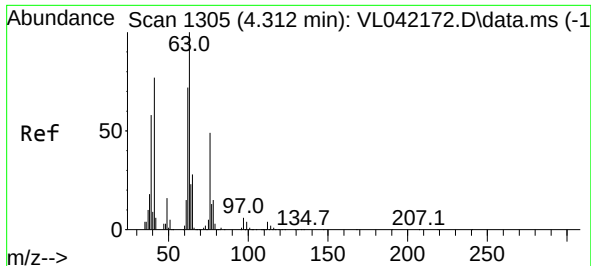
Tgt Ion: 62 Resp: 416544
Ion Ratio Lower Upper
62 100
98 6.4 5.4 8.2



#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# 1304

Delta R.T. -0.004 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

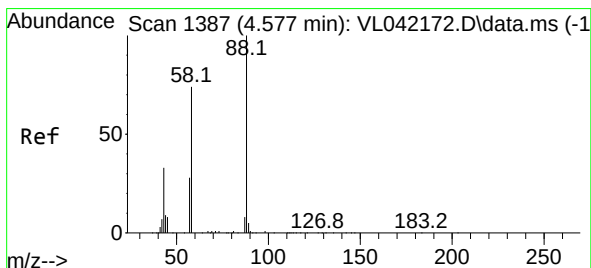
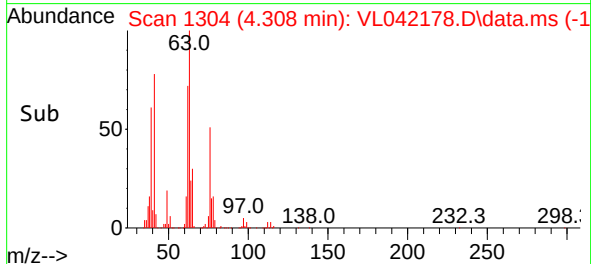
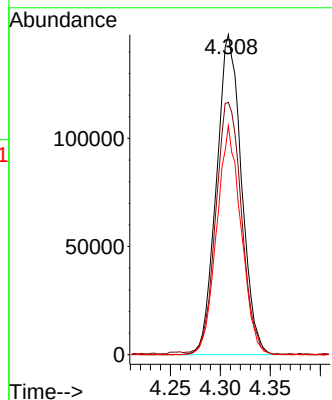
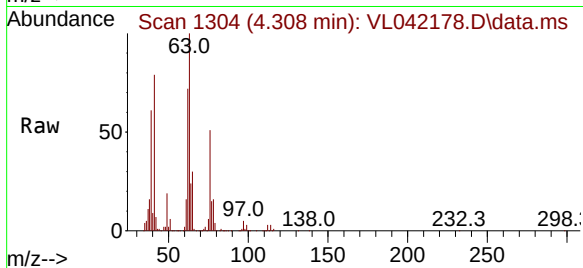
Tgt Ion: 63 Resp: 257891

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

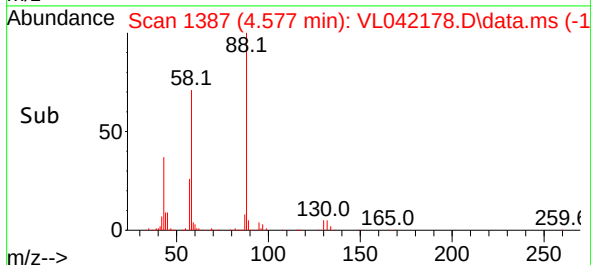
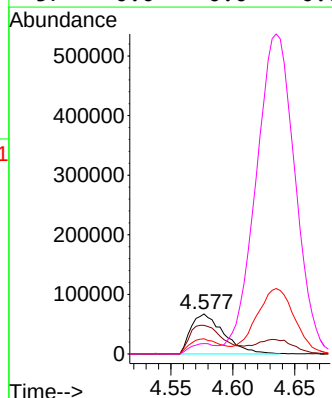
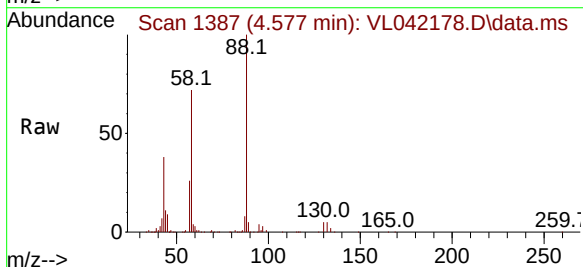
Ion Ratio Lower Upper

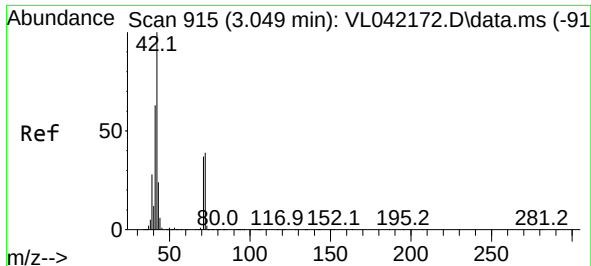
88 100

58 69.6 62.7 94.1

43 31.6 23.0 34.4

57 0.0 0.0 0.0

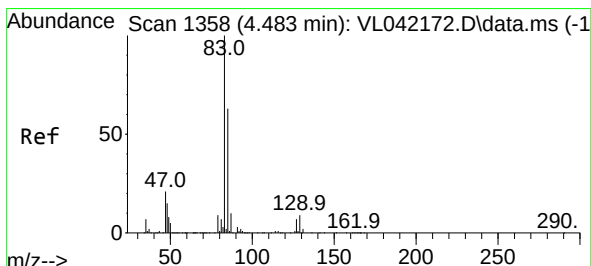
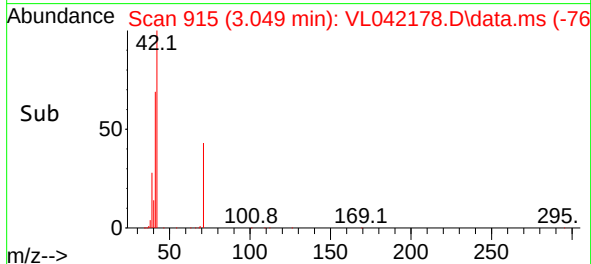
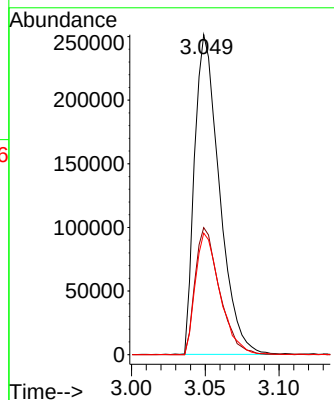
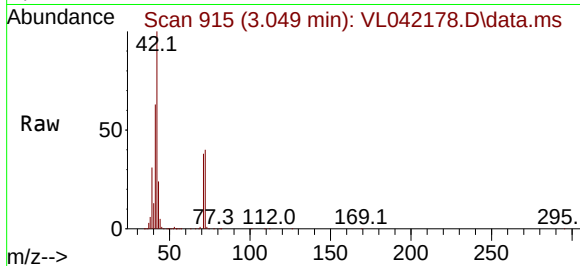




#41
Tetrahydrofuran
Concen: 14.301 ppbv
RT: 3.049 min Scan# 915
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

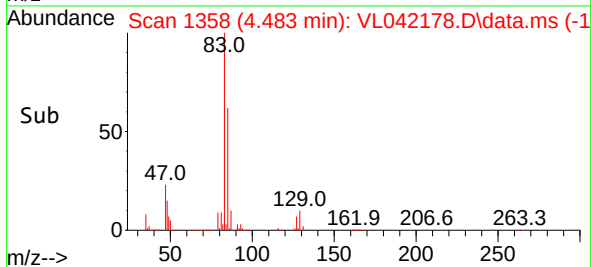
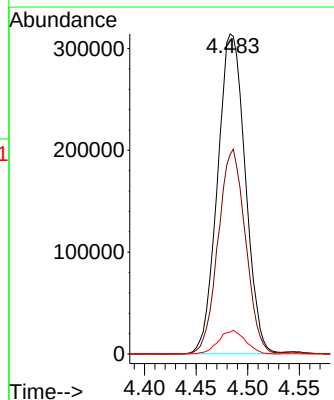
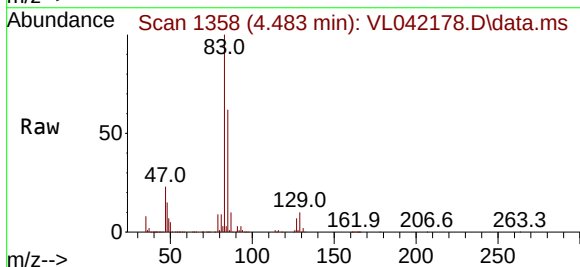
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

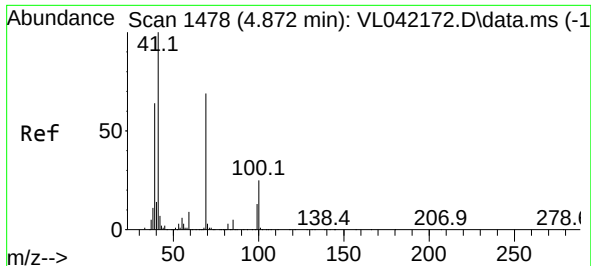
Tgt Ion: 42 Resp: 294634
Ion Ratio Lower Upper
42 100
72 39.0 31.4 47.0
71 37.9 30.2 45.4



#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

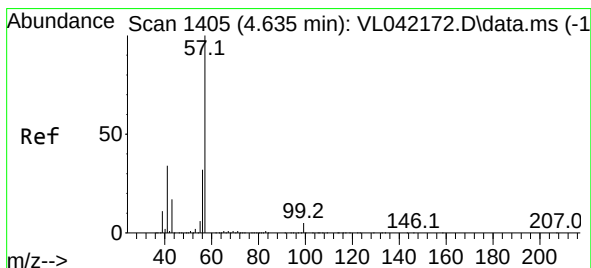
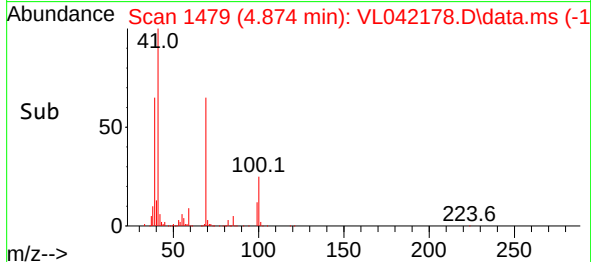
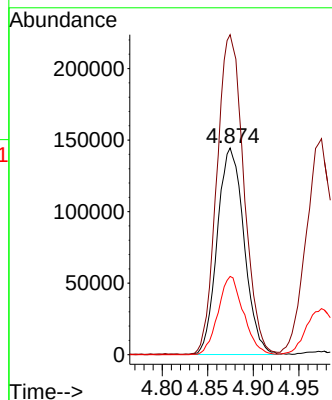
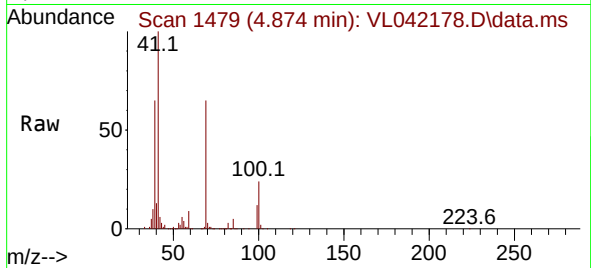




#43
Methyl Methacrylate
Concen: 14.130 ppbv
RT: 4.874 min Scan# 1478
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

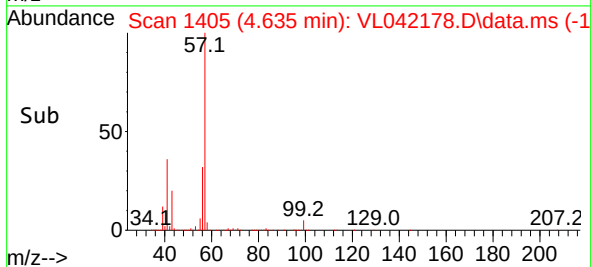
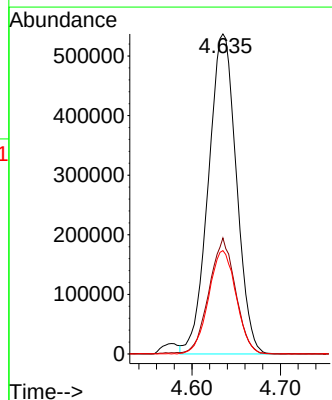
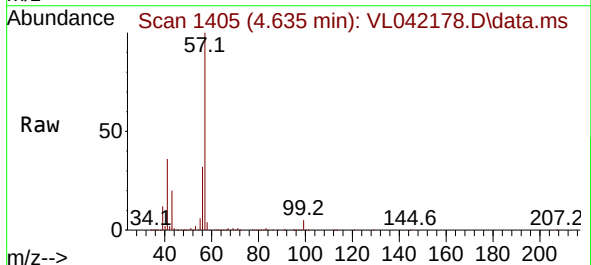
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

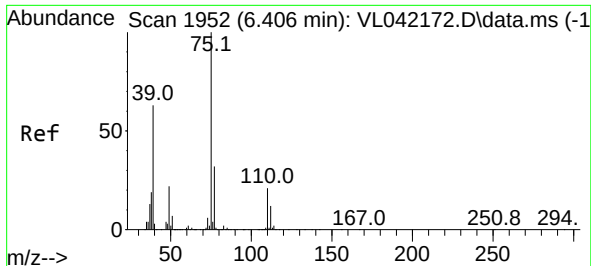
Tgt Ion: 69 Resp: 295300
Ion Ratio Lower Upper
69 100
41 155.4 123.8 185.6
100 36.0 28.4 42.6



#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 :

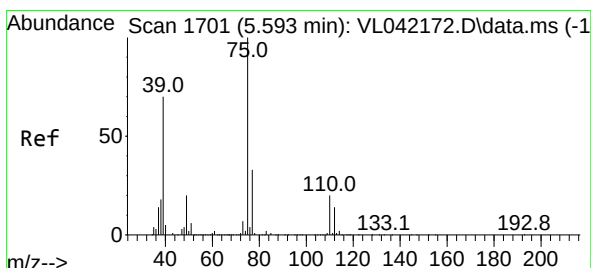
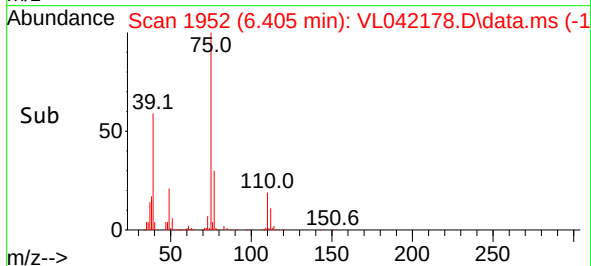
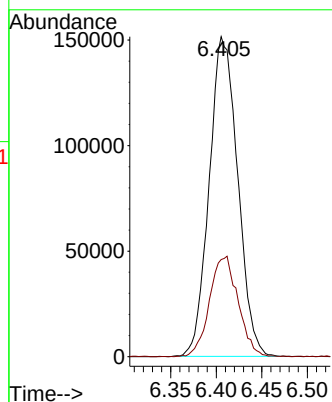
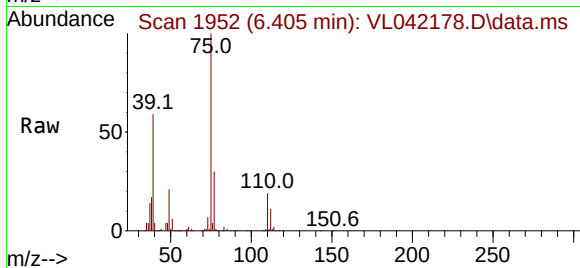
VSTDIC015

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

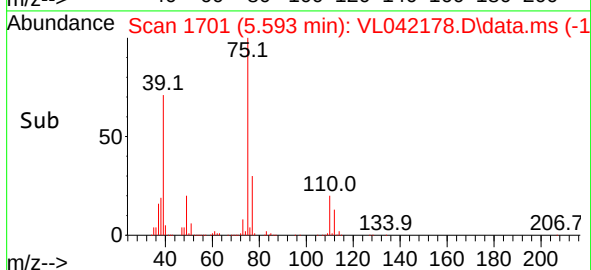
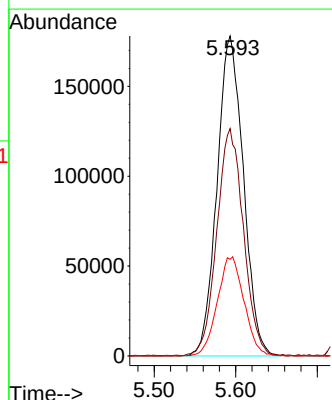
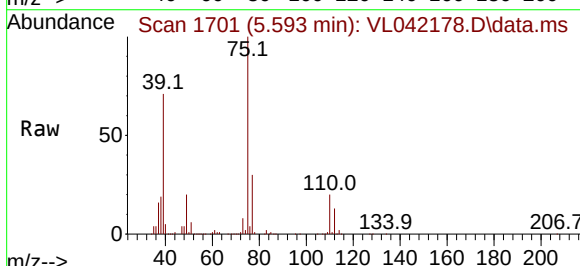
Tgt Ion: 75 Resp: 400813

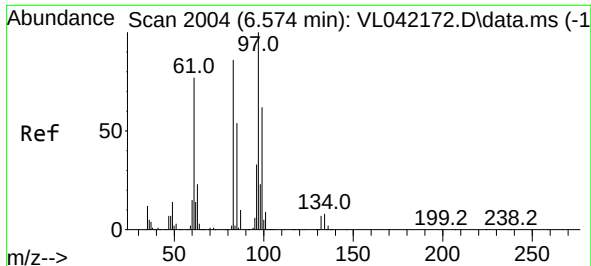
Ion Ratio Lower Upper

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

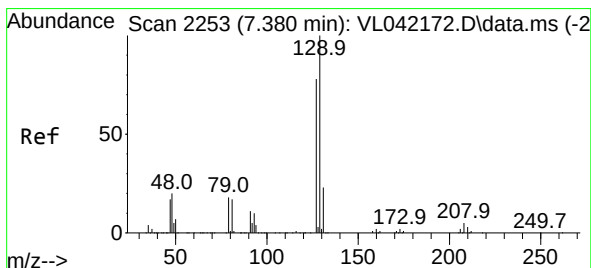
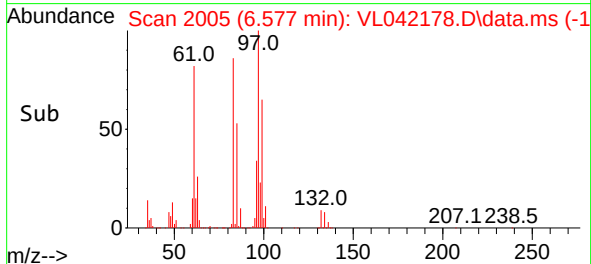
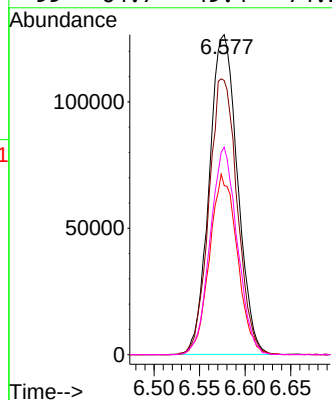
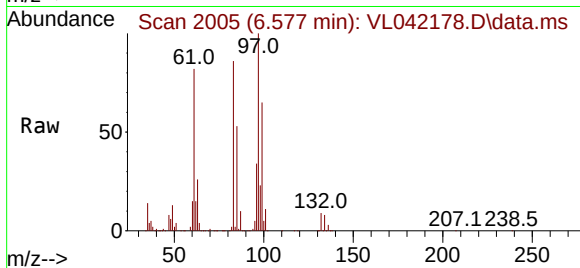
Ion Ratio Lower Upper

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

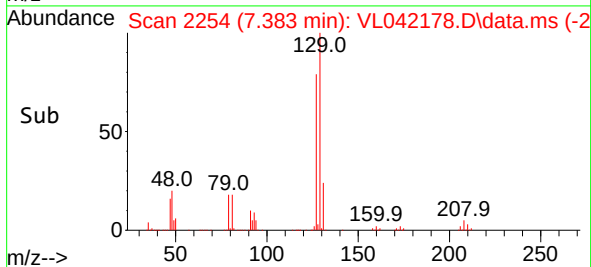
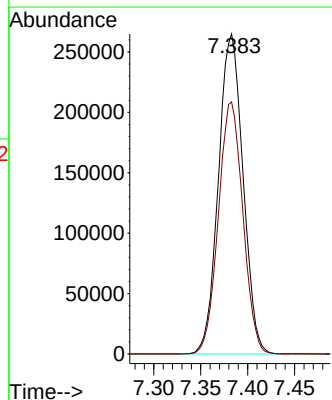
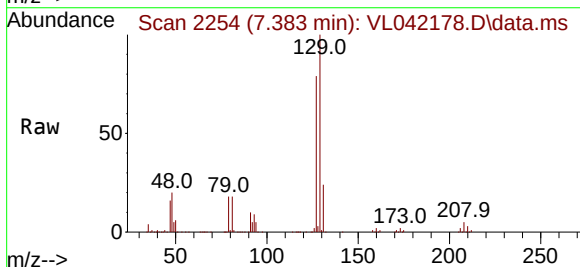
Acq: 27 Mar 2025 11:36

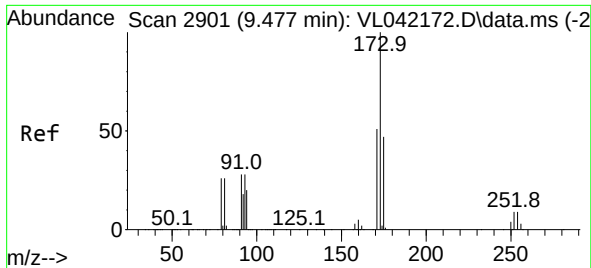
Tgt Ion: 129 Resp: 482431

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

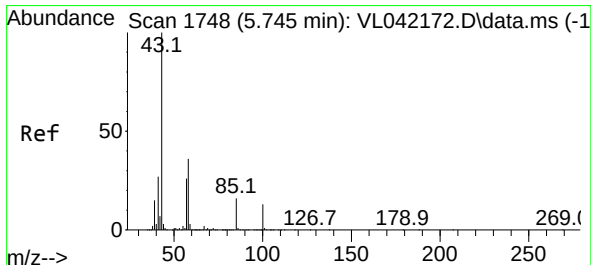
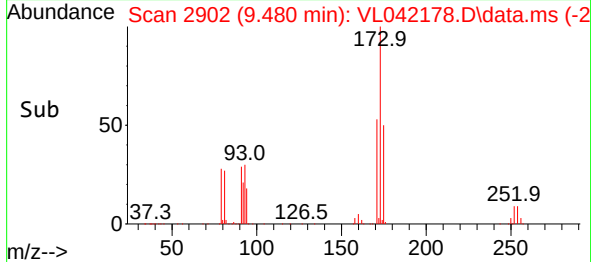
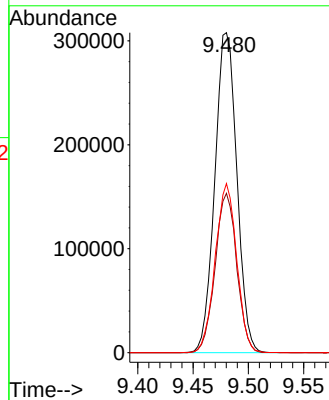
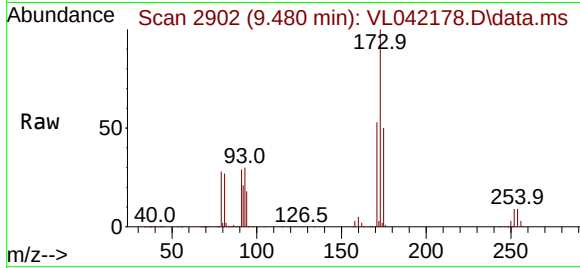
Tgt Ion:173 Resp: 427143

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

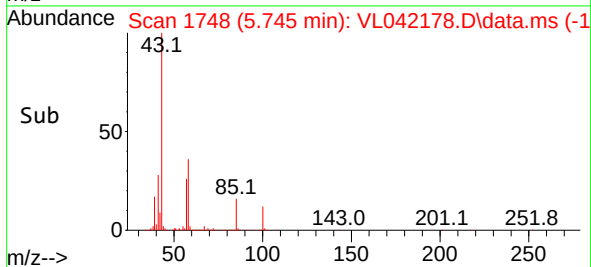
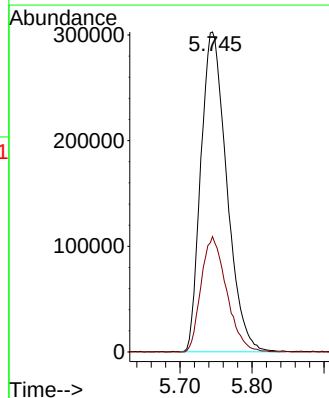
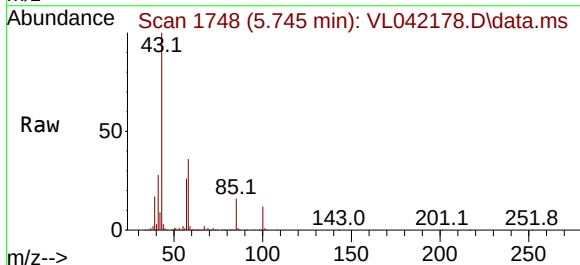
Acq: 27 Mar 2025 11:36

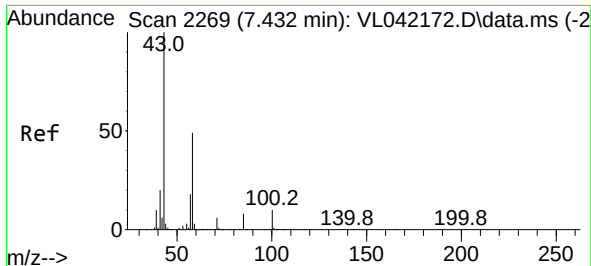
Tgt Ion: 43 Resp: 755146

Ion Ratio Lower Upper

43 100

58 35.5 29.0 43.6

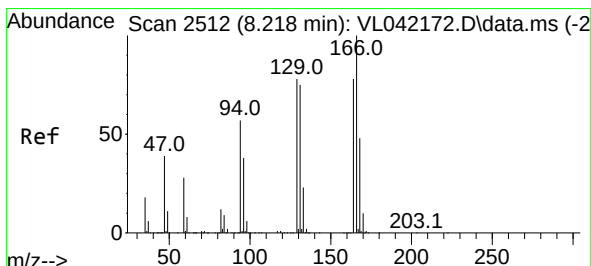
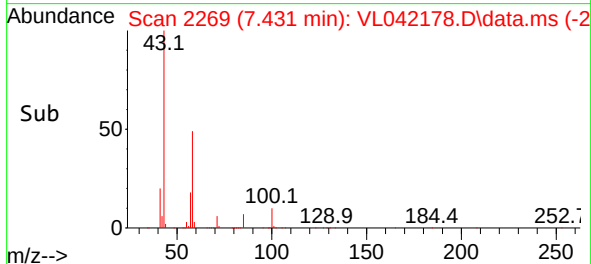
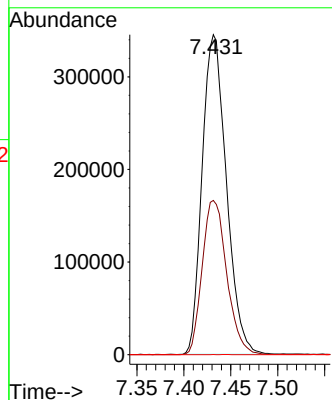
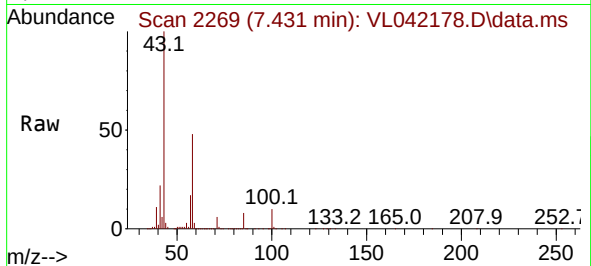




#51
2-Hexanone
Concen: 13.005 ppbv
RT: 7.431 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

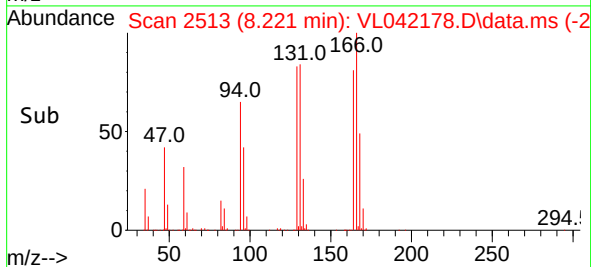
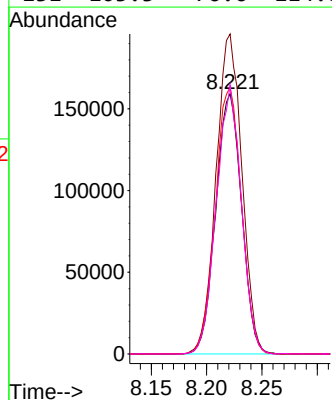
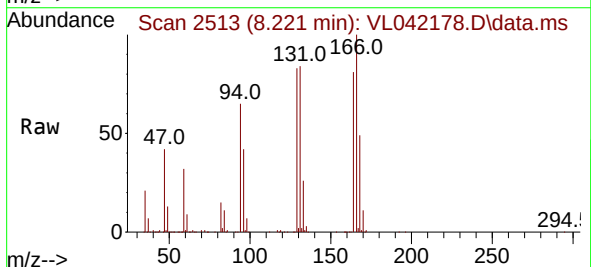
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

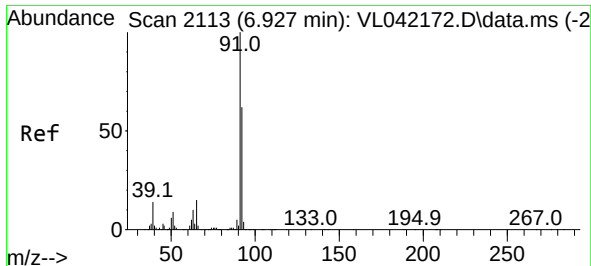
Tgt Ion: 43 Resp: 619419
Ion Ratio Lower Upper
43 100
58 49.0 39.7 59.5
98 0.0 0.1 0.1#



#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

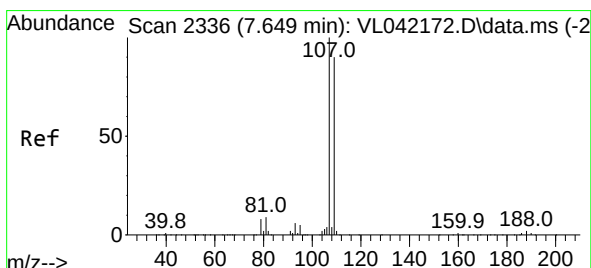
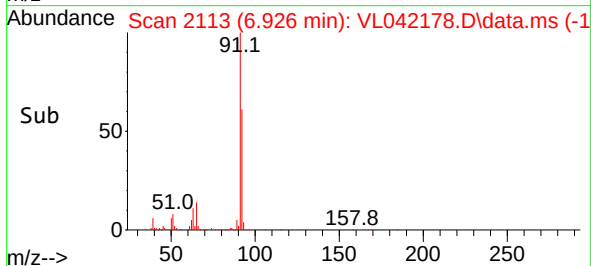
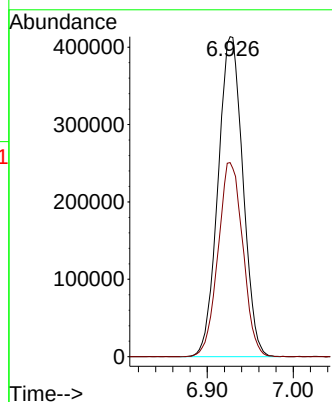
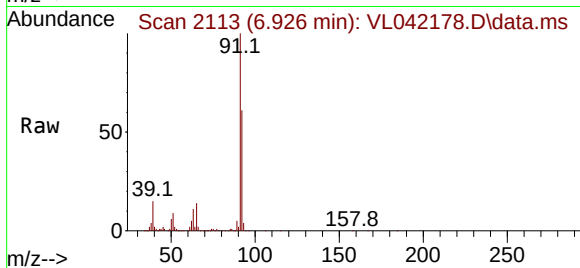




#53
Toluene
Concen: 14.137 ppbv
RT: 6.926 min Scan# 2113
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

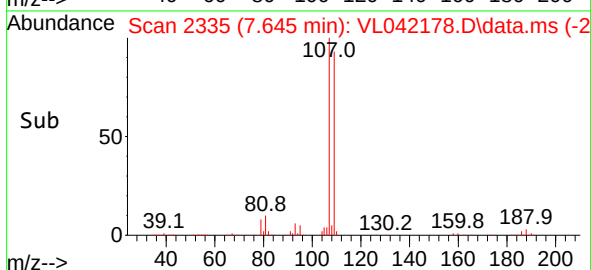
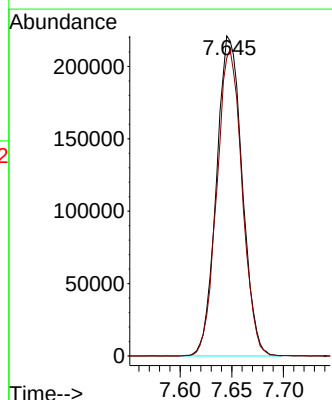
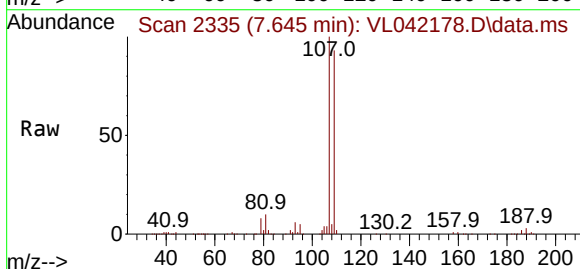
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

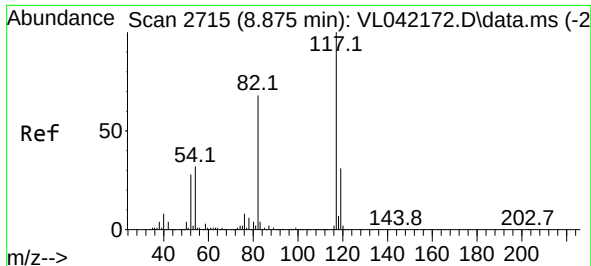
Tgt Ion: 91 Resp: 829648
Ion Ratio Lower Upper
91 100
92 60.6 48.4 72.6



#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

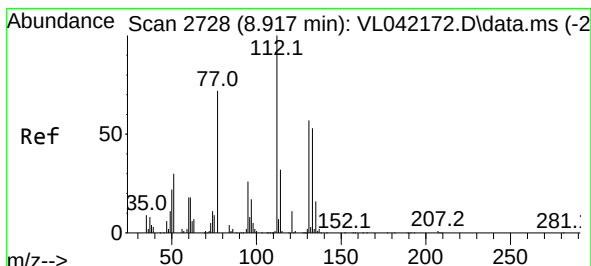
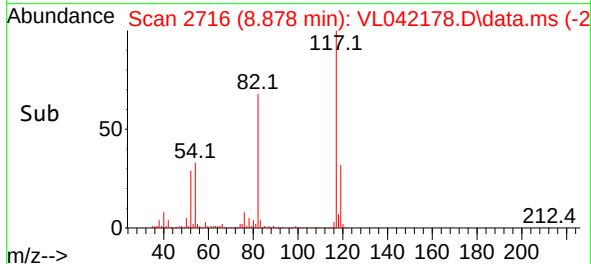
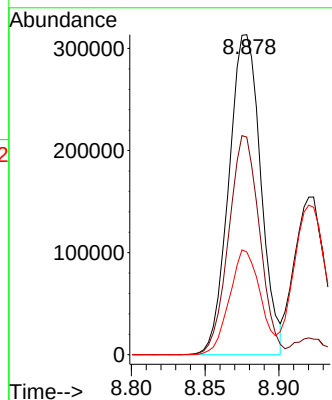
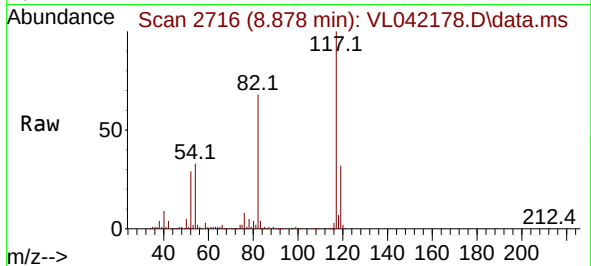




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

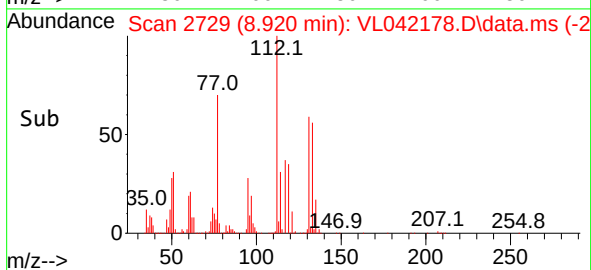
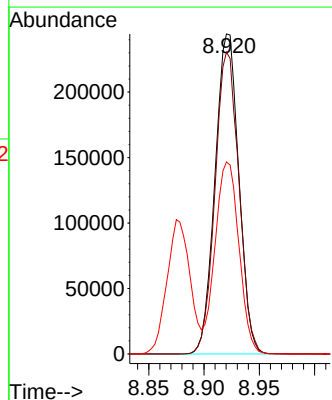
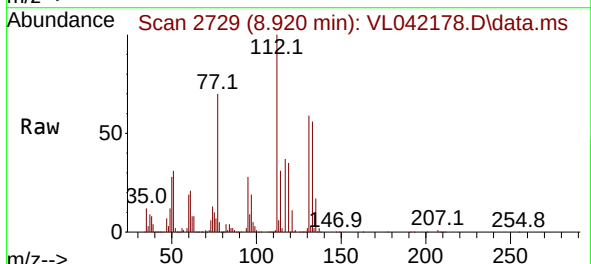
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

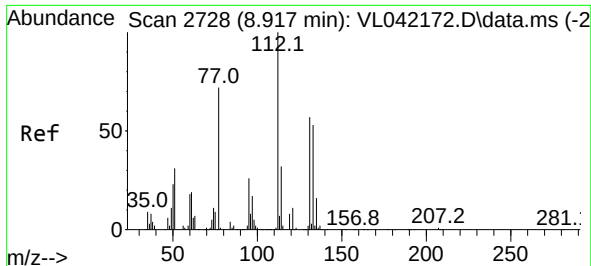
Tgt Ion:117 Resp: 473077
Ion Ratio Lower Upper
117 100
82 71.4 55.8 83.6
119 31.7 25.5 38.3



#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

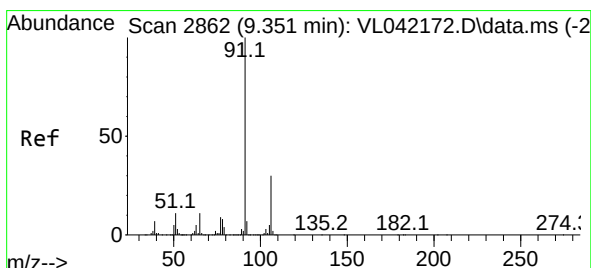
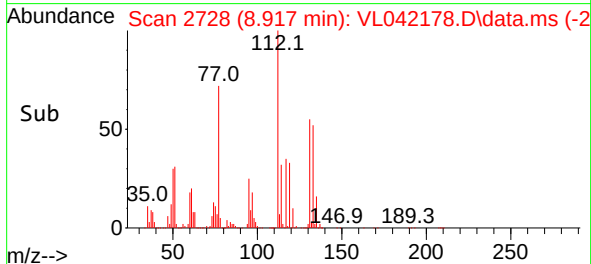
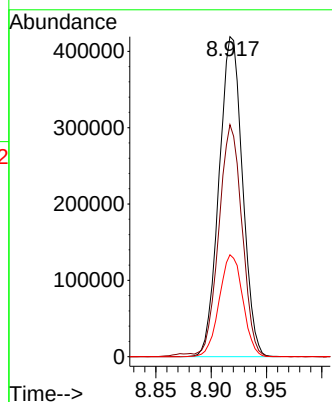
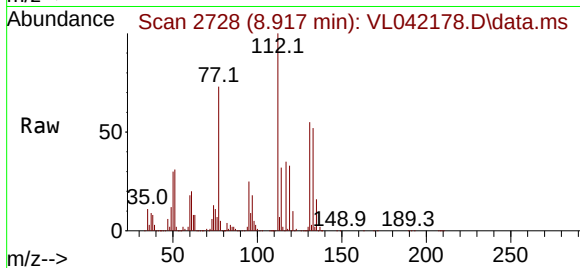
Tgt Ion:112 Resp: 618201

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

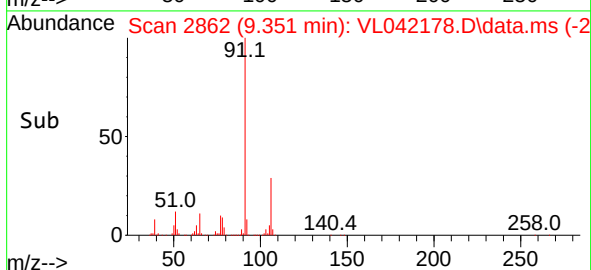
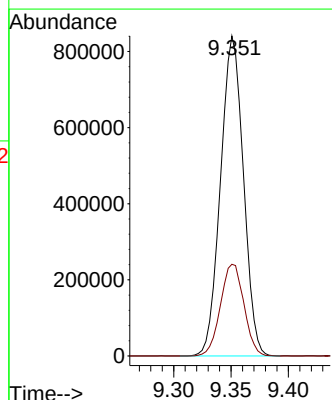
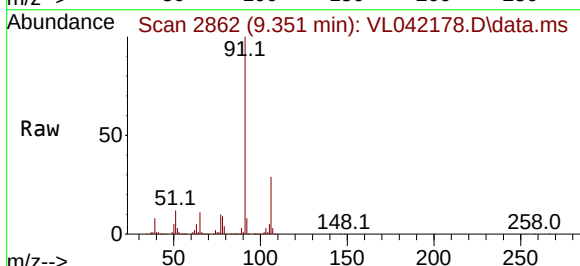
Acq: 27 Mar 2025 11:36

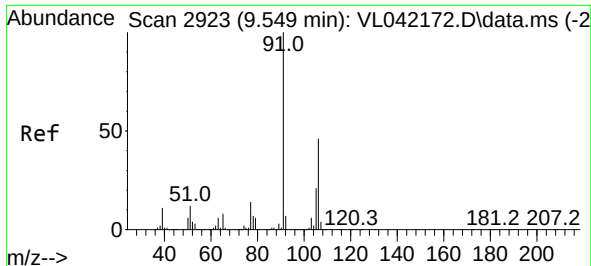
Tgt Ion: 91 Resp: 1167096

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 :

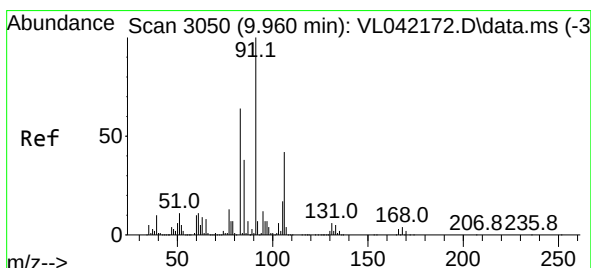
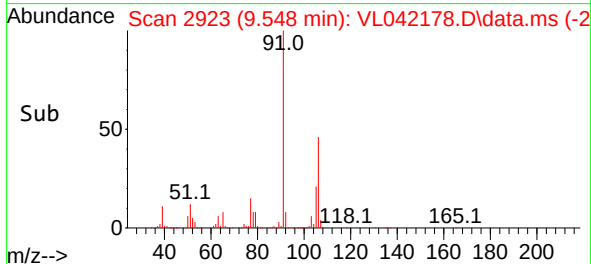
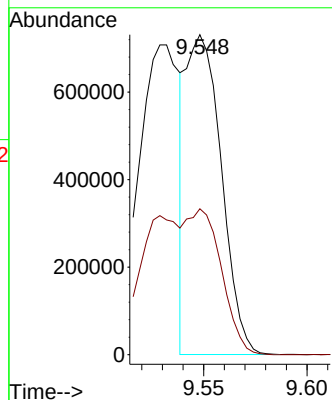
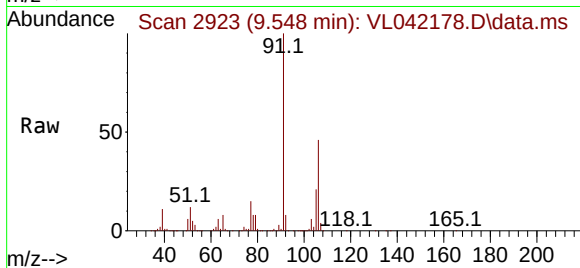
VSTDIC015

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

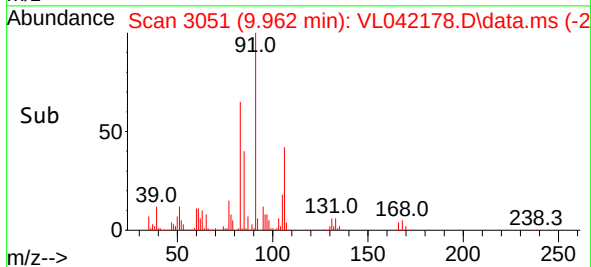
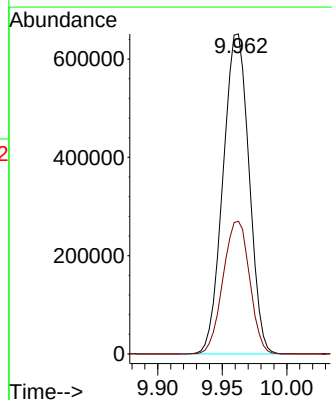
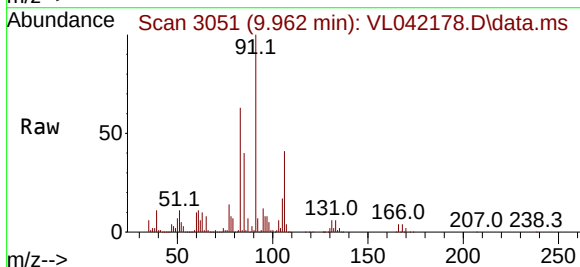
Acq: 27 Mar 2025 11:36

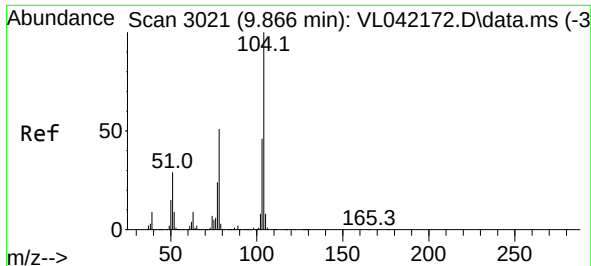
Tgt Ion: 91 Resp: 913234

Ion Ratio Lower Upper

91 100

106 42.4 20.8 62.5

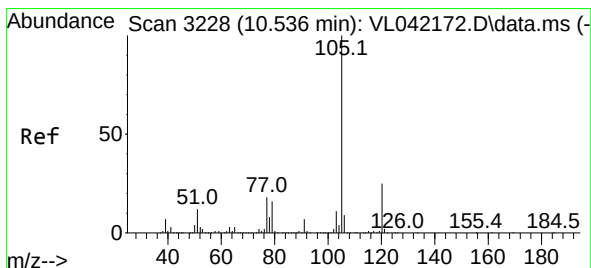
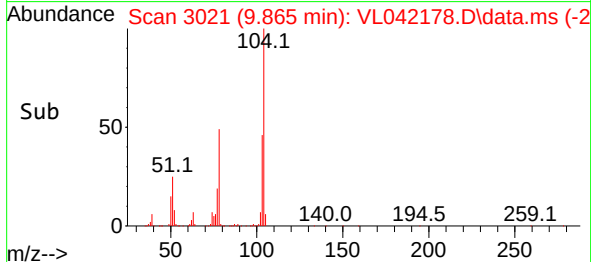
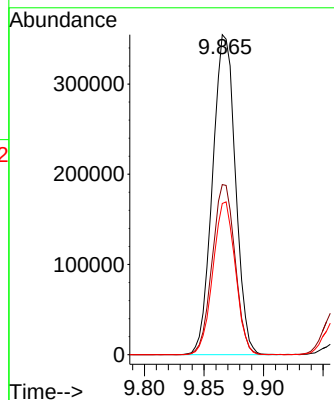
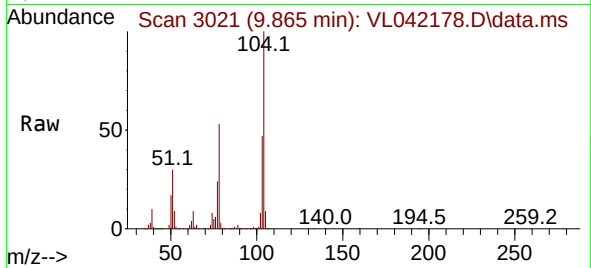




#61
Styrene
Concen: 14.250 ppbv
RT: 9.865 min Scan# 3021
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

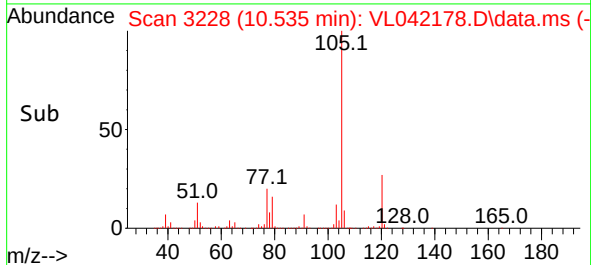
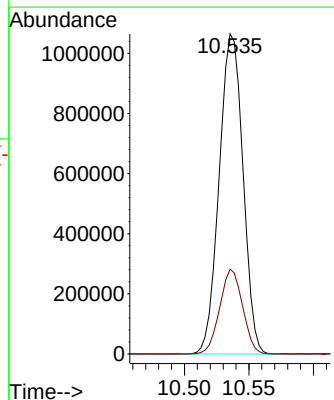
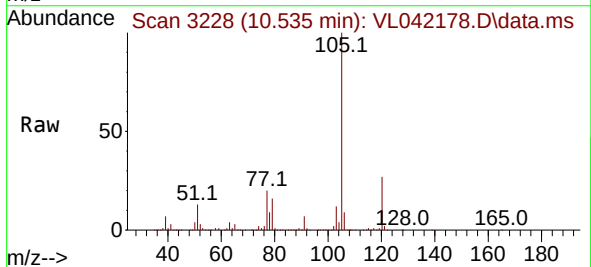
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

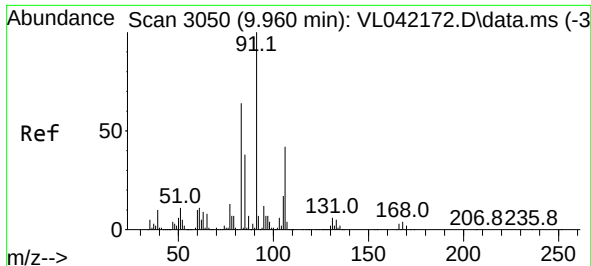
Tgt Ion:104 Resp: 474195
Ion Ratio Lower Upper
104 100
78 53.0 41.8 62.6
103 46.7 37.0 55.4



#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_L

ClientSampleId :

VSTDIC015

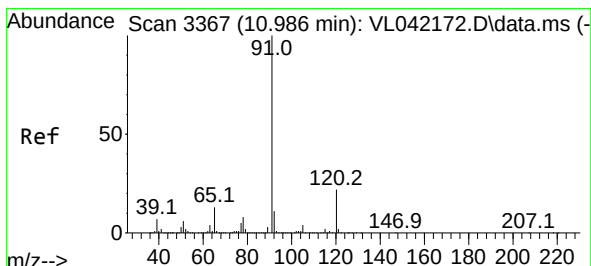
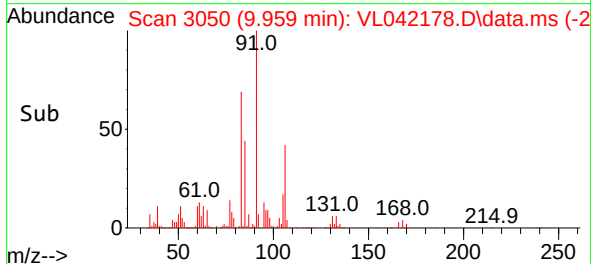
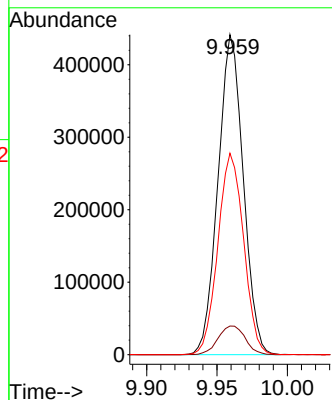
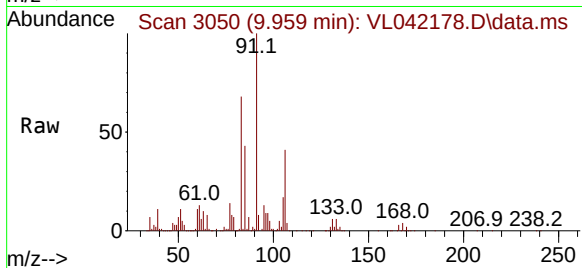
Tgt Ion: 83 Resp: 551386

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

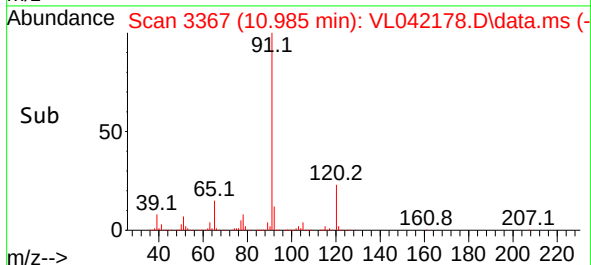
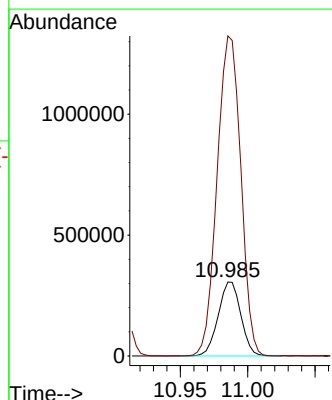
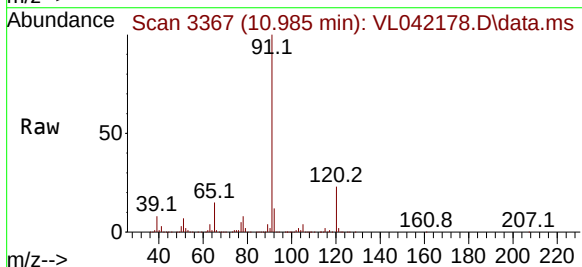
Acq: 27 Mar 2025 11:36

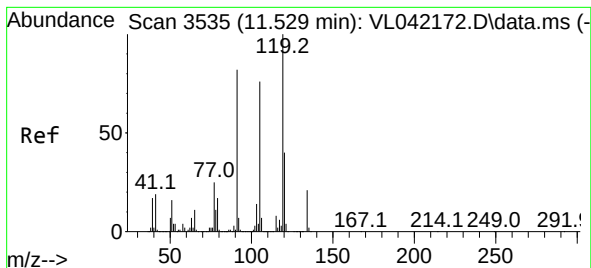
Tgt Ion: 120 Resp: 356118

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

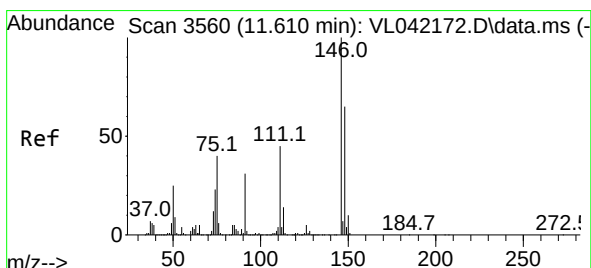
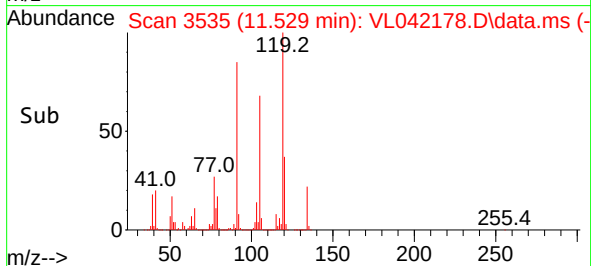
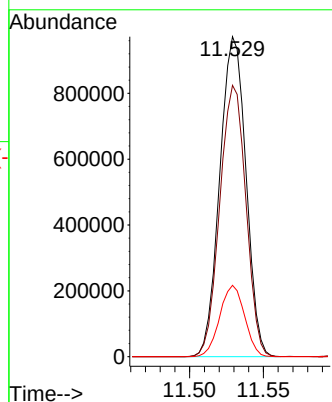
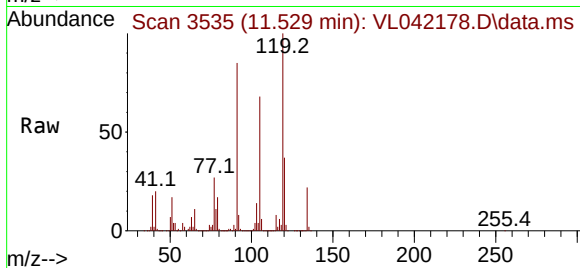
Tgt Ion:119 Resp: 1200149

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

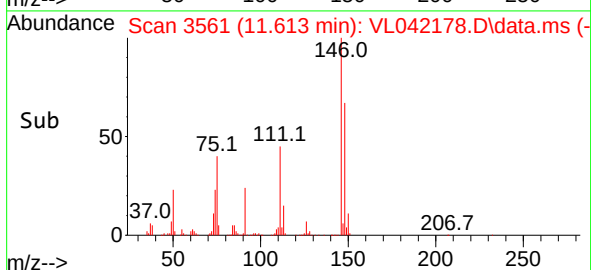
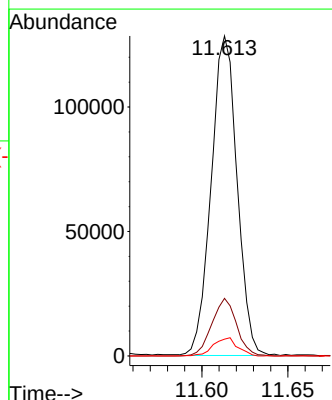
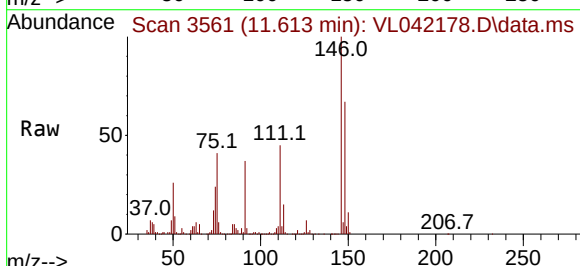
Tgt Ion: 91 Resp: 134397

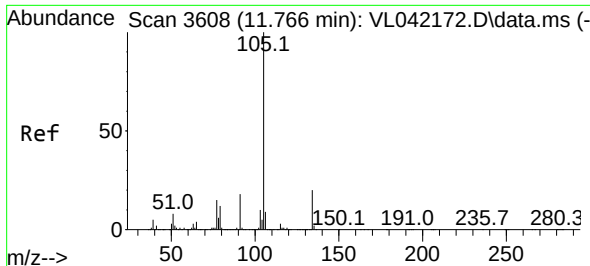
Ion Ratio Lower Upper

91 100

126 17.3 13.8 20.6

128 5.4 4.5 6.7

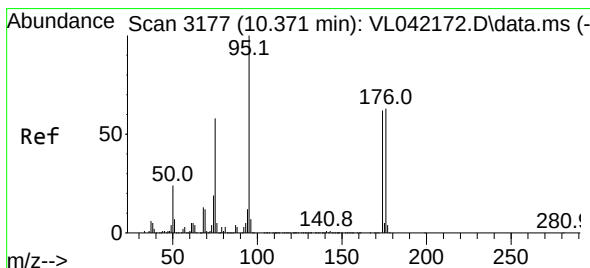
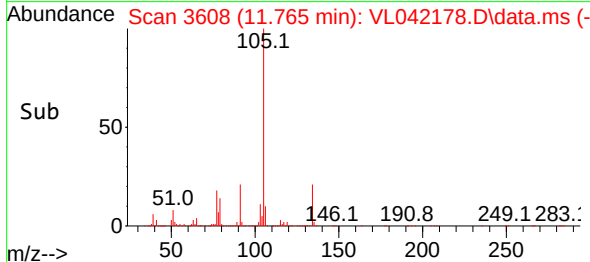
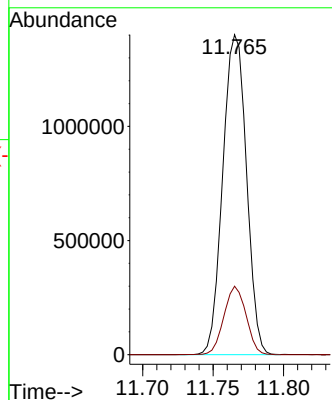
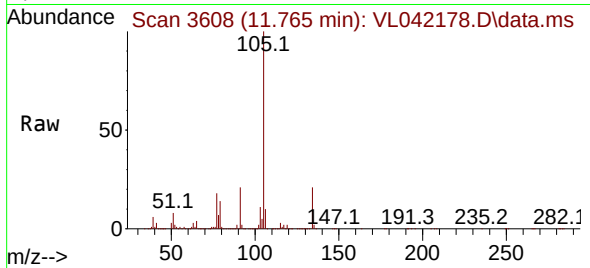




#67
 sec-Butylbenzene
 Concen: 12.711 ppbv
 RT: 11.765 min Scan# 3178
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

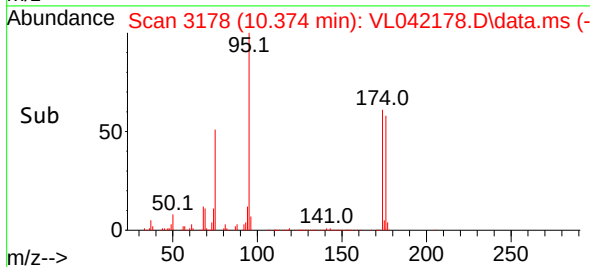
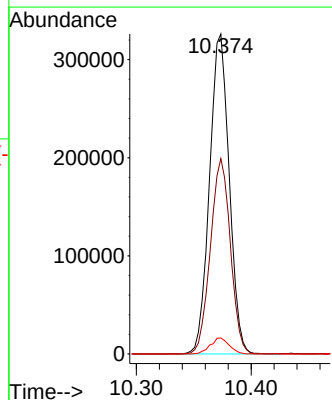
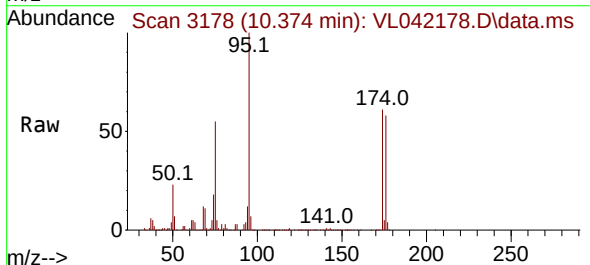
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

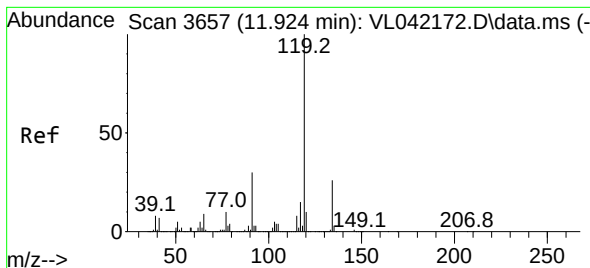
Tgt Ion:105 Resp: 1643629
 Ion Ratio Lower Upper
 105 100
 134 20.0 15.5 23.3



#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

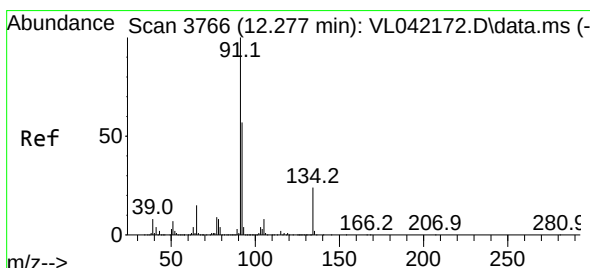
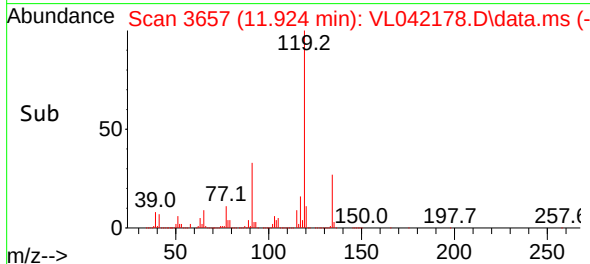
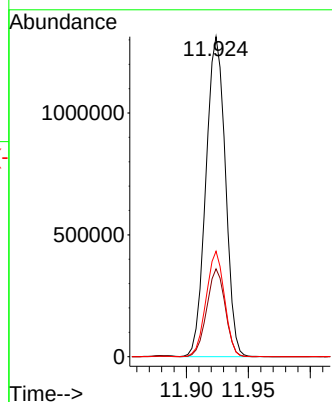
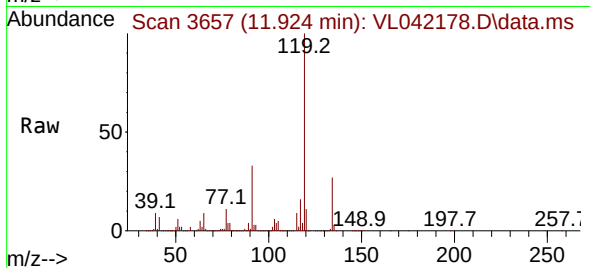




#69
p-Isopropyltoluene
Concen: 12.906 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

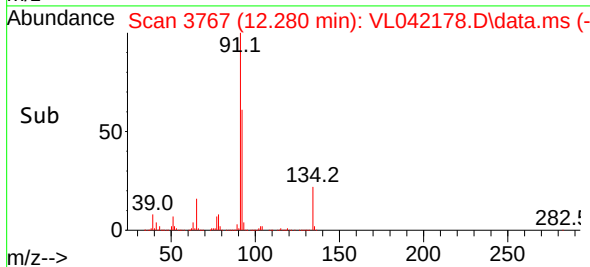
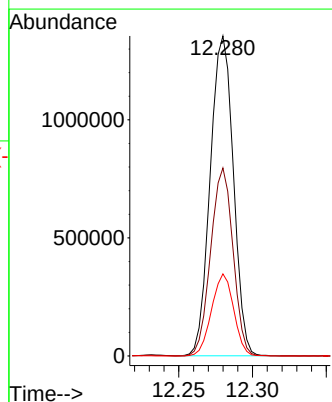
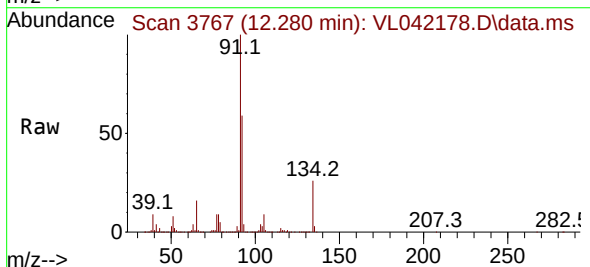
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

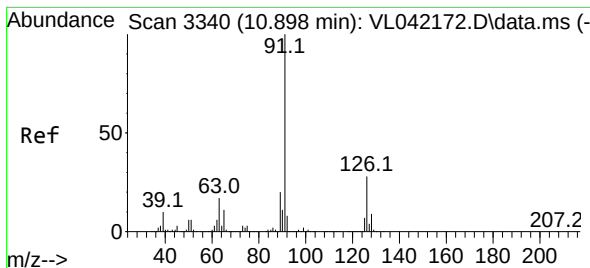
Tgt Ion:119 Resp: 1437016
Ion Ratio Lower Upper
119 100
134 26.2 20.4 30.6
91 31.2 23.7 35.5



#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

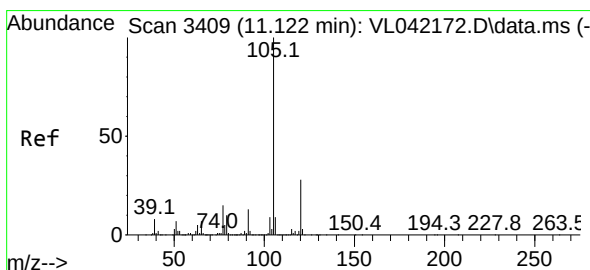
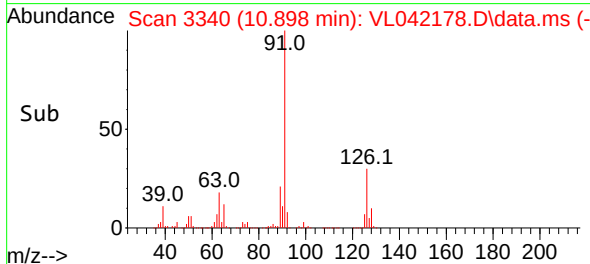
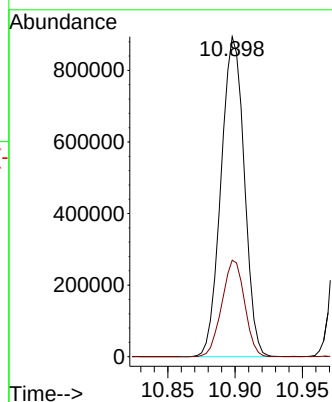
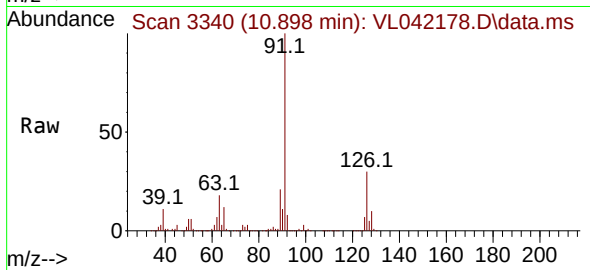




#71
2-Chlorotoluene
Concen: 13.724 ppbv
RT: 10.898 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

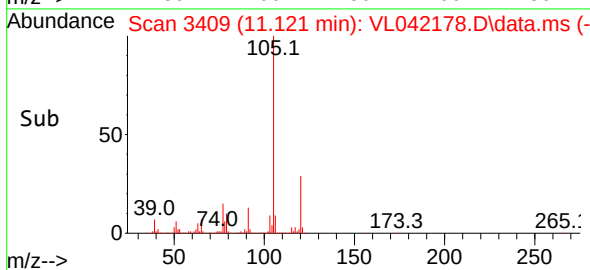
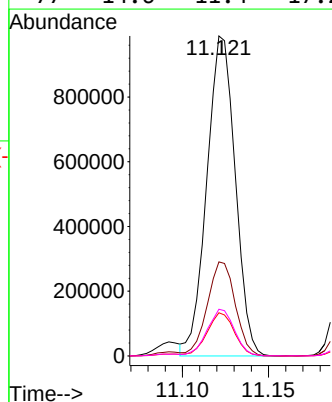
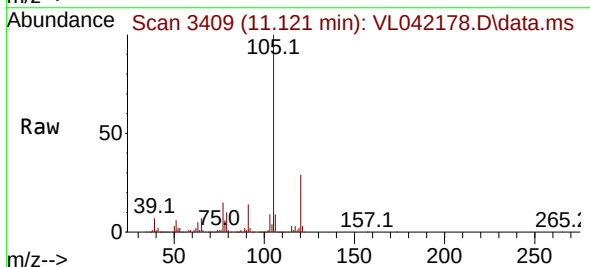
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

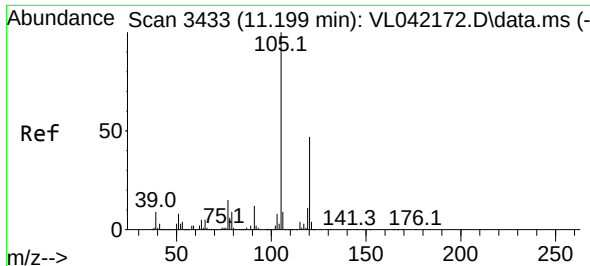
Tgt Ion: 91 Resp: 1071432
Ion Ratio Lower Upper
91 100
126 29.5 11.6 46.4



#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

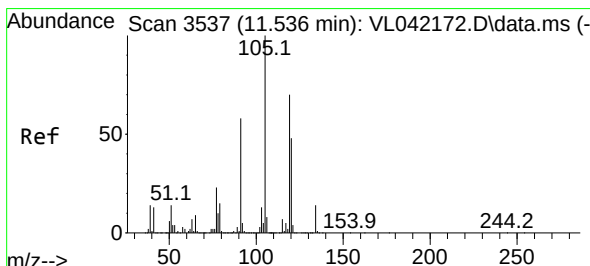
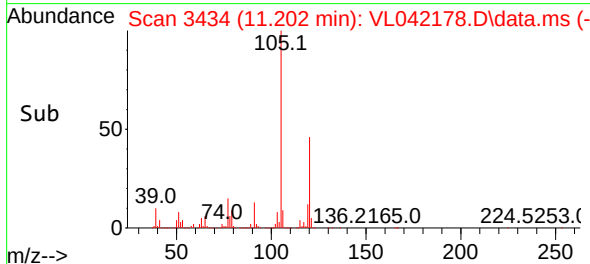
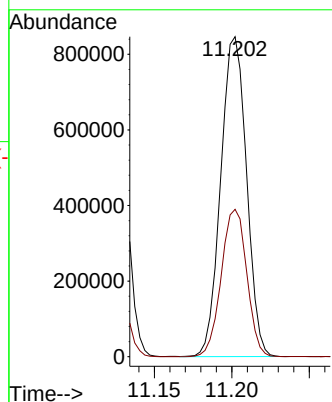
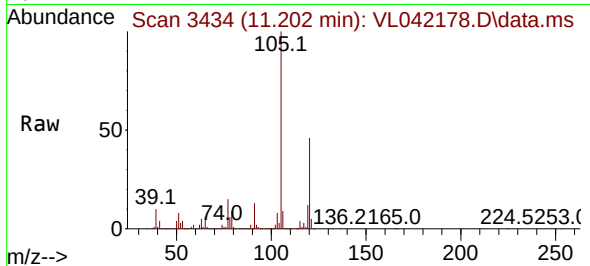




#73
1,3,5-Trimethylbenzene
Concen: 13.395 ppbv
RT: 11.202 min Scan# 3433
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

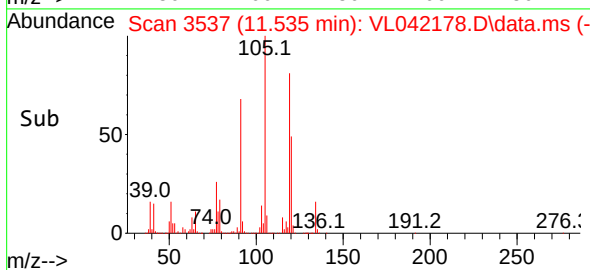
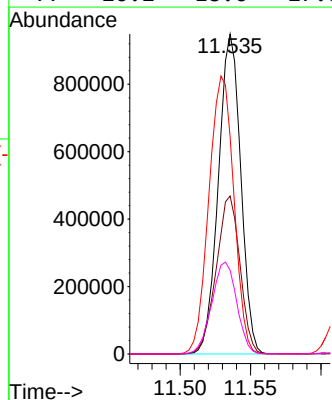
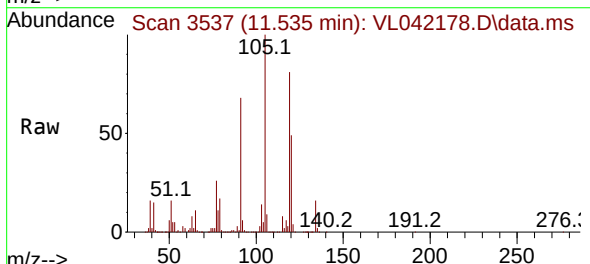
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

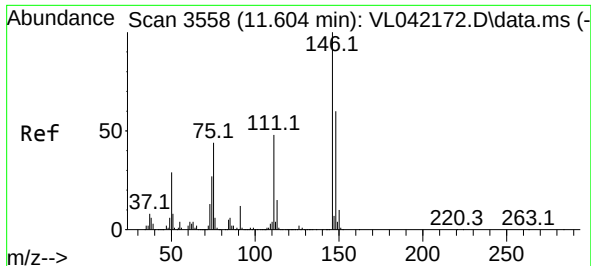
Tgt Ion:105 Resp: 979783
Ion Ratio Lower Upper
105 100
120 46.1 37.4 56.0



#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

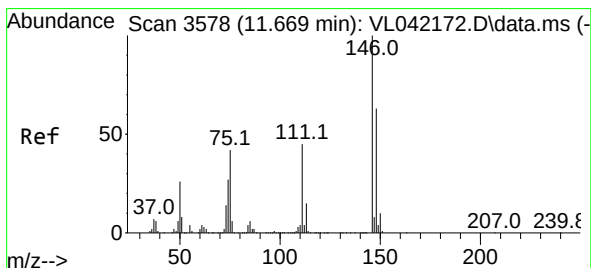
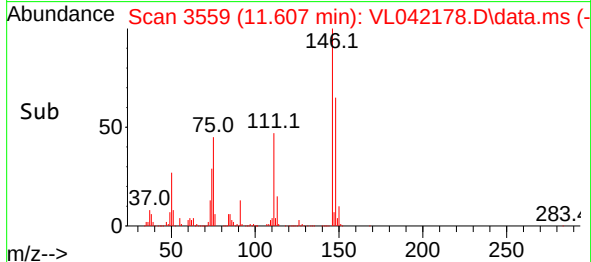
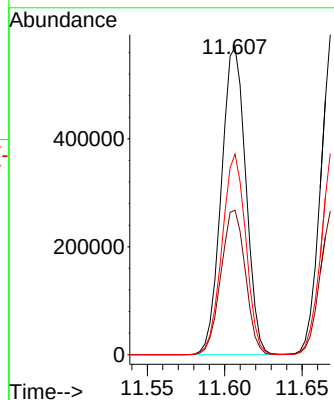
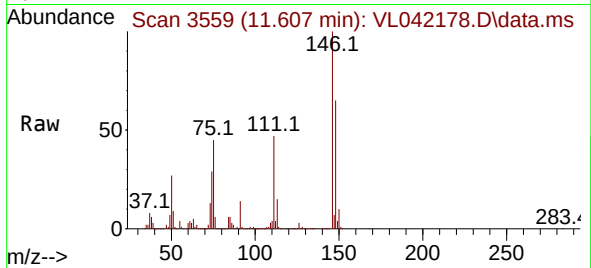




#75
1,3-Dichlorobenzene
Concen: 13.545 ppbv
RT: 11.607 min Scan# 3558
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

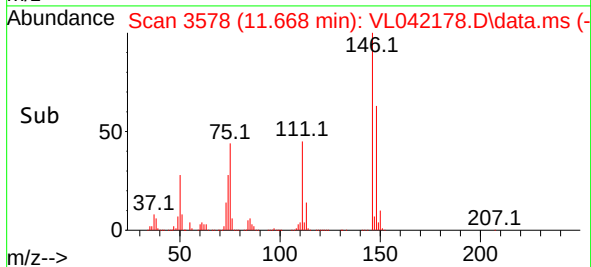
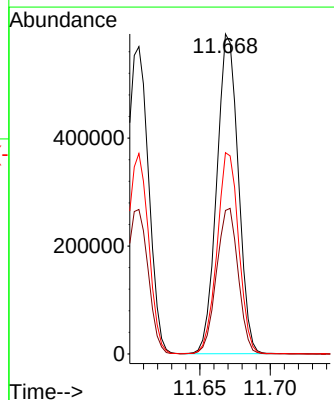
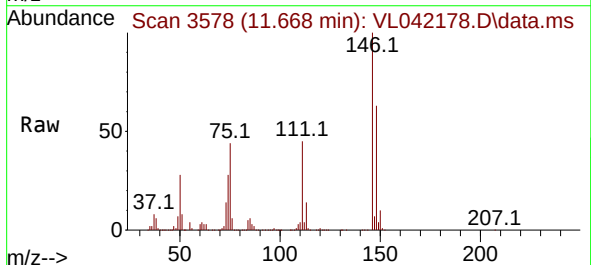
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

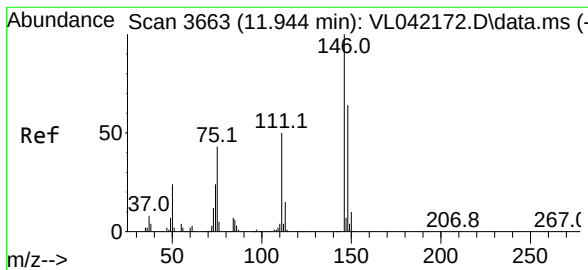
Tgt Ion:146 Resp: 626015
Ion Ratio Lower Upper
146 100
111 47.0 23.8 71.2
148 63.5 31.9 95.9



#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

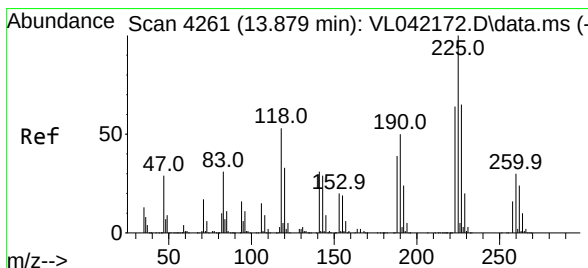
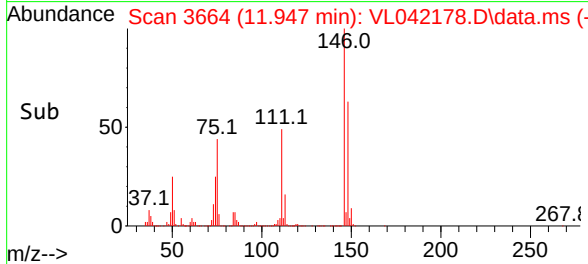
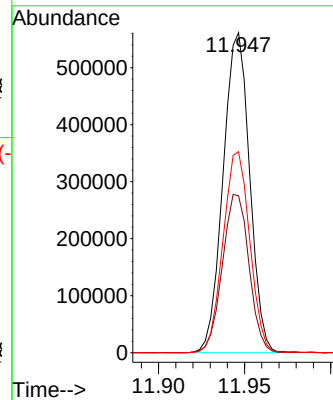
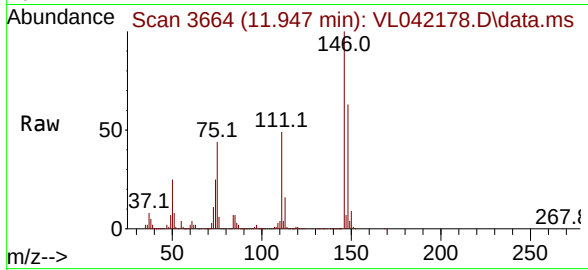
Tgt Ion:146 Resp: 602844

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

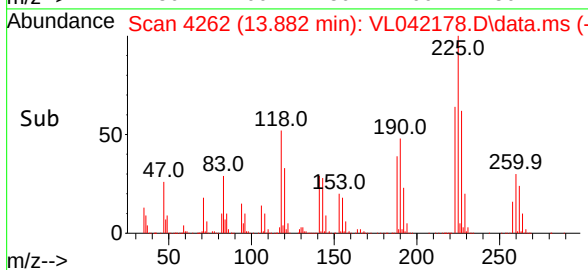
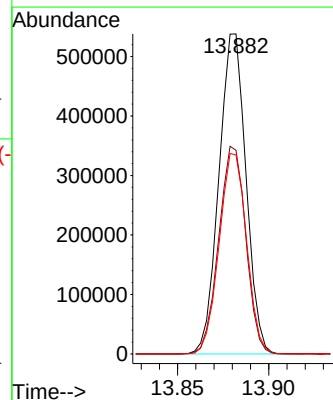
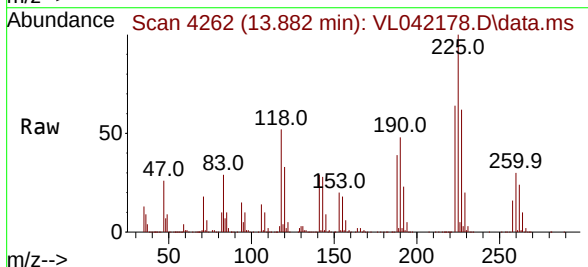
Tgt Ion:225 Resp: 556392

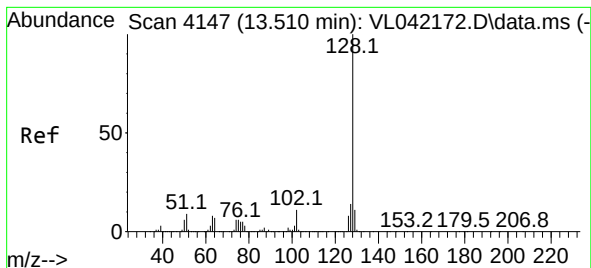
Ion Ratio Lower Upper

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_1

ClientSampleId :

VSTDIC015

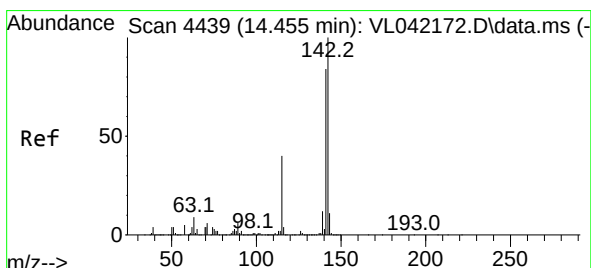
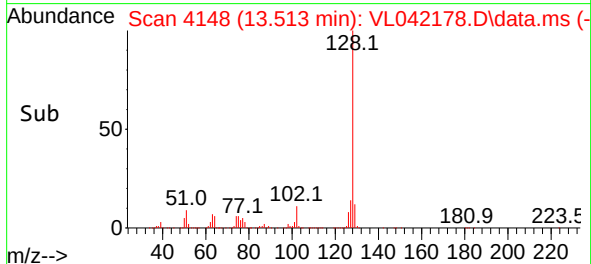
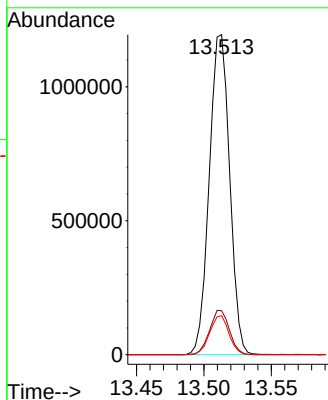
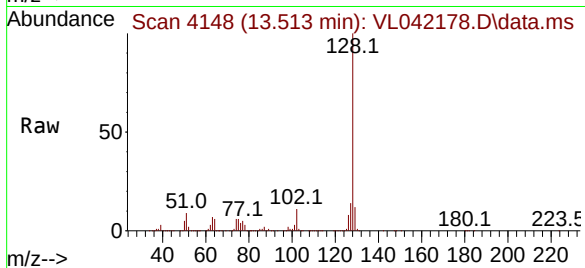
Tgt Ion:128 Resp: 1258479

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

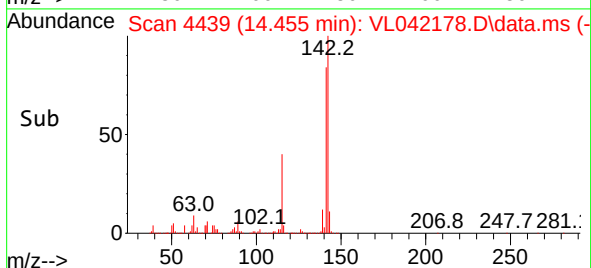
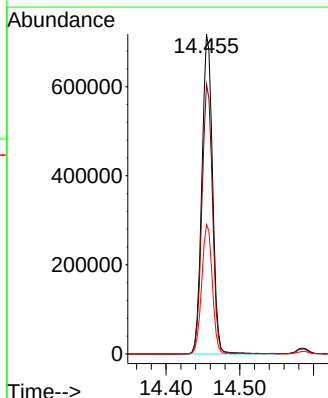
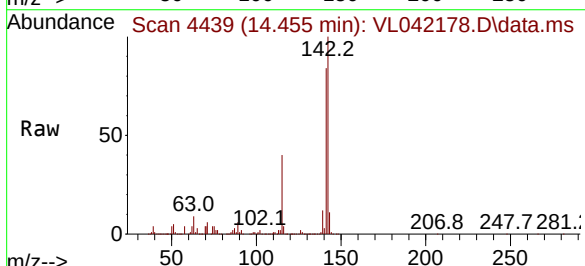
Tgt Ion:142 Resp: 718900

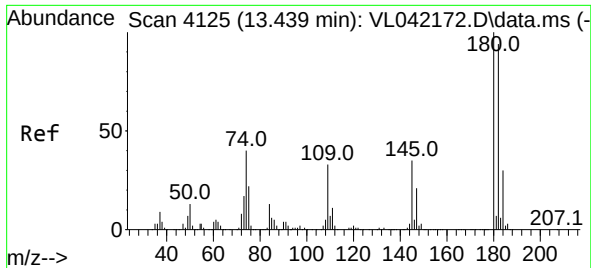
Ion Ratio Lower Upper

142 100

141 84.3 66.3 99.5

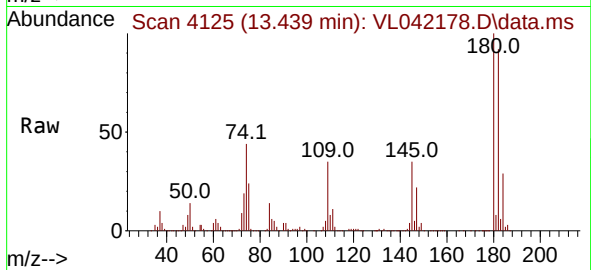
115 40.6 31.6 47.4



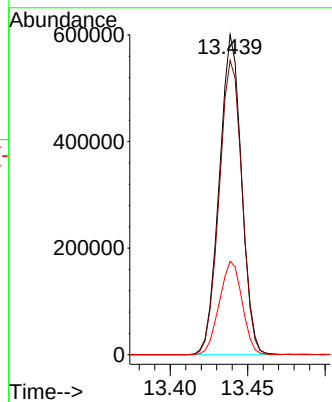
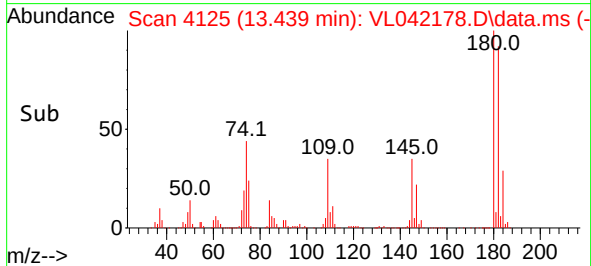


#81
 1,2,4-Trichlorobenzene
 Concen: 14.075 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

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

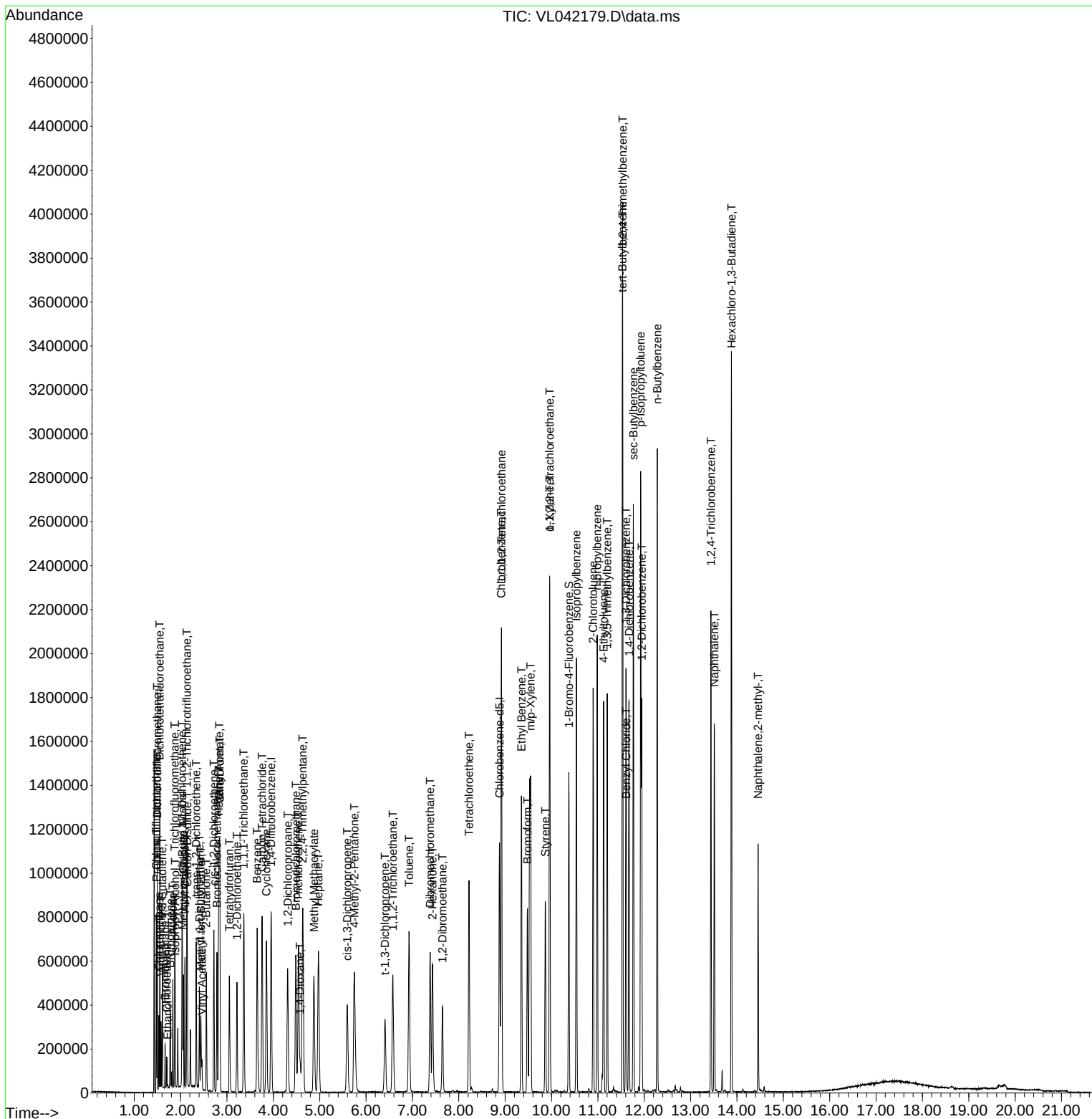
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 MSVOA_L
 ClientSampleId :
 ICVVL032725

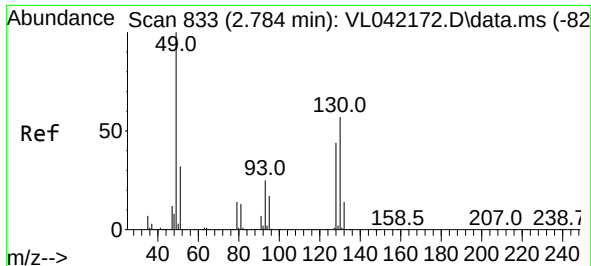
Quant Time: Mar 28 02:05:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

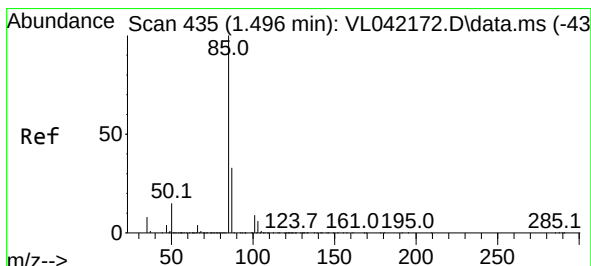
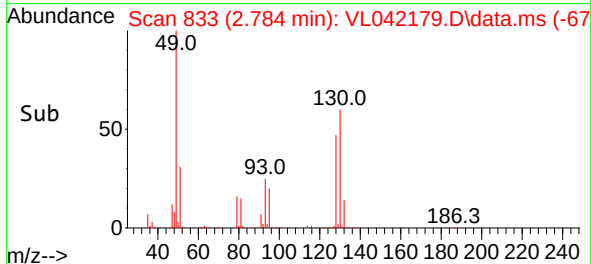
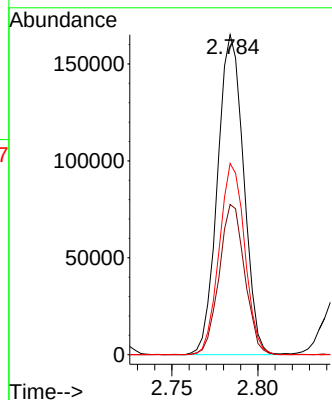
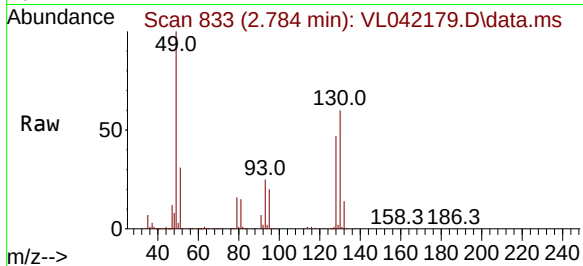




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

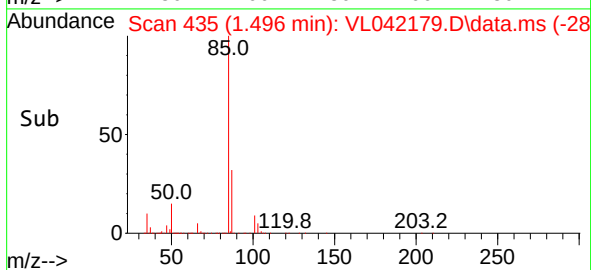
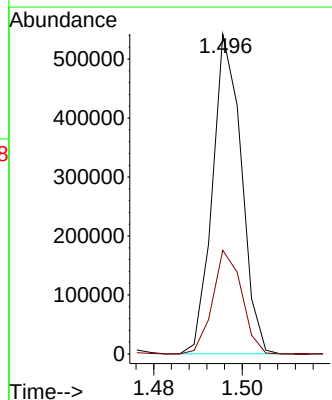
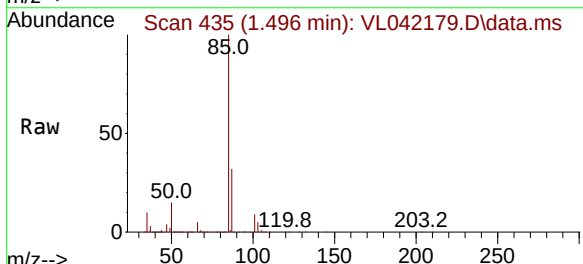
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

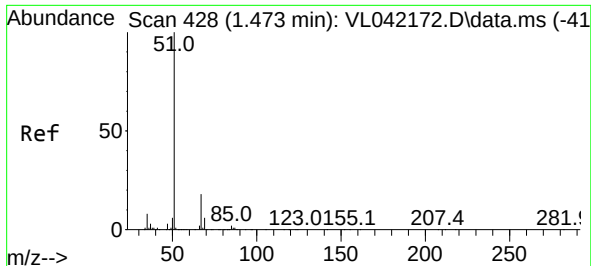
Tgt Ion: 49 Resp: 174350
Ion Ratio Lower Upper
49 100
128 45.8 22.9 68.5
130 58.4 28.8 86.4



#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

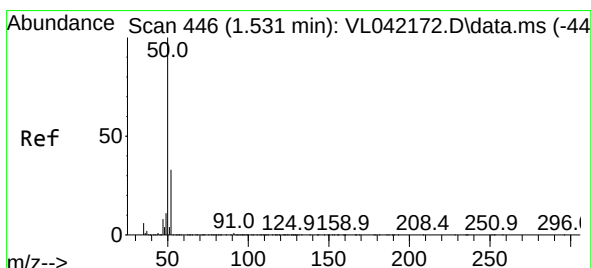
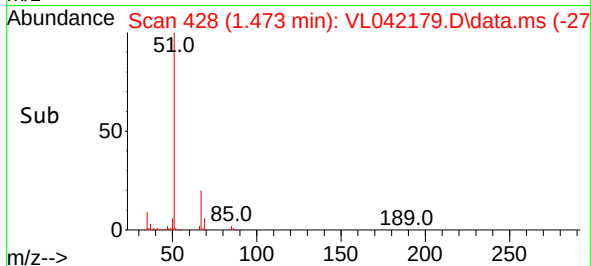
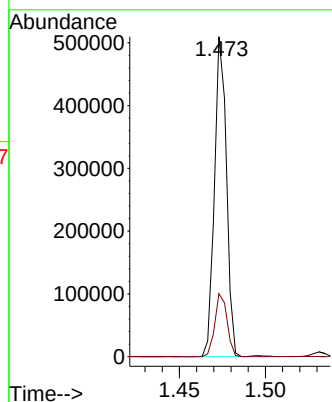
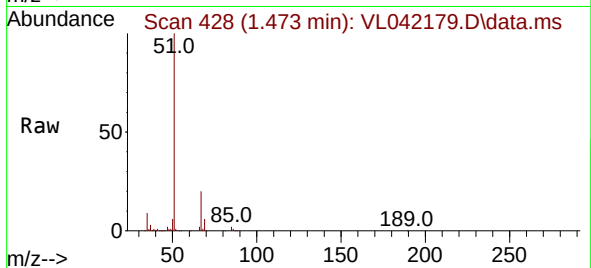




#3
Chlorodifluoromethane
Concen: 9.394 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

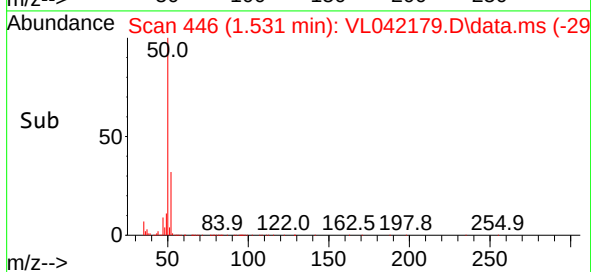
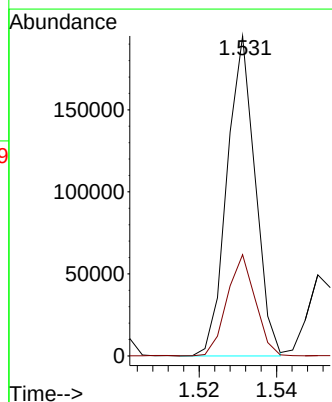
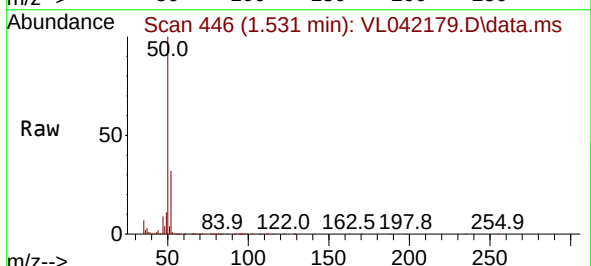
Instrument : MSVOA_L
ClientSampleId : ICVVL032725

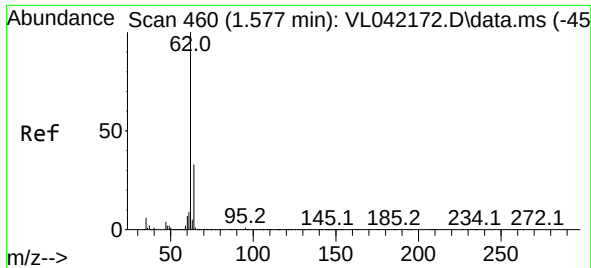
Tgt Ion: 51 Resp: 247046
Ion Ratio Lower Upper
51 100
67 20.1 15.0 22.6



#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

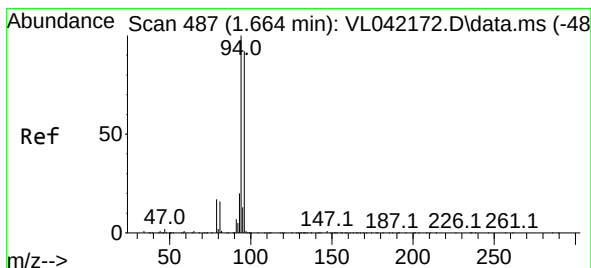
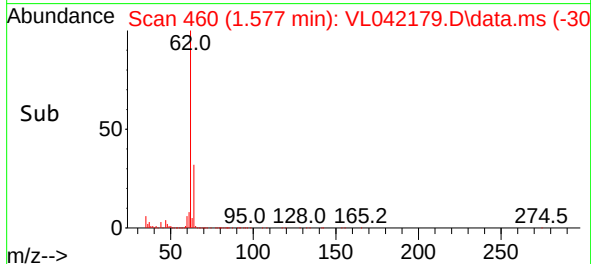
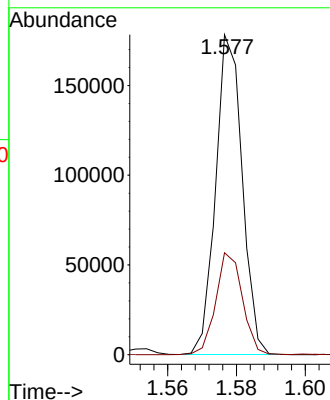
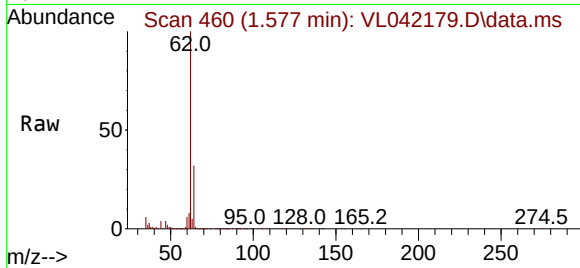




#5
 Vinyl Chloride
 Concen: 8.573 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

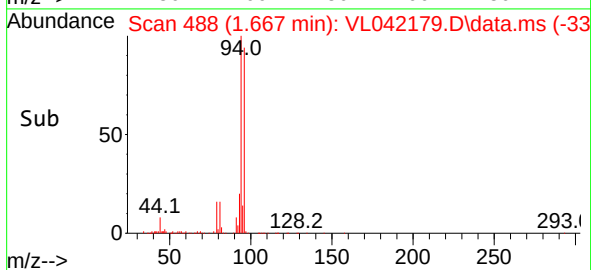
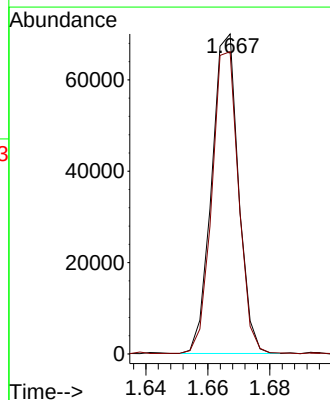
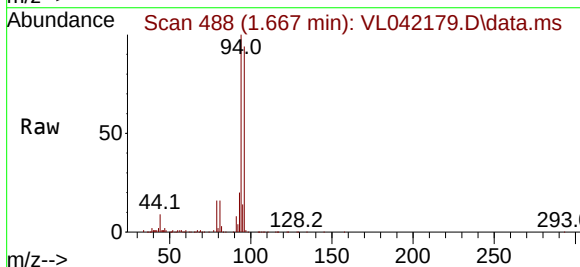
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 ClientSampleId :
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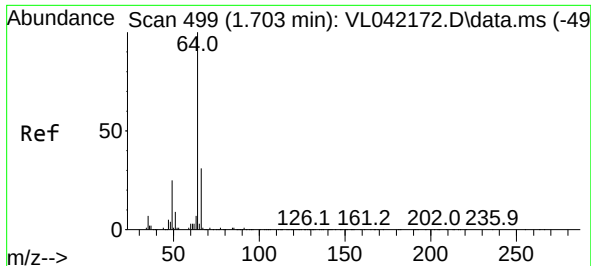
Tgt Ion: 62 Resp: 95578
 Ion Ratio Lower Upper
 62 100
 64 31.8 26.6 40.0



#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

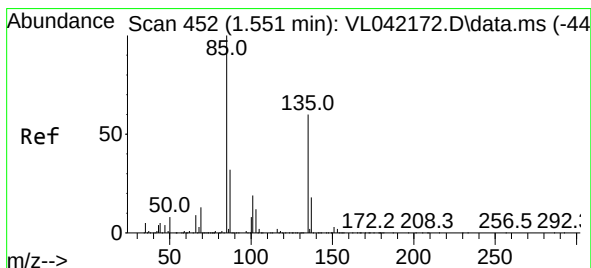
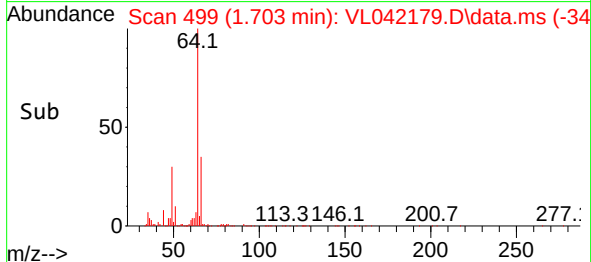
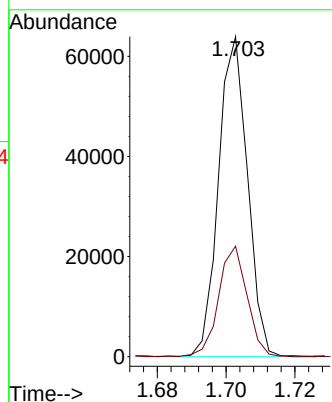
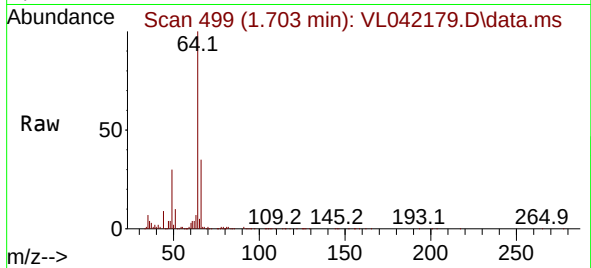




#7
Chloroethane
Concen: 8.856 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

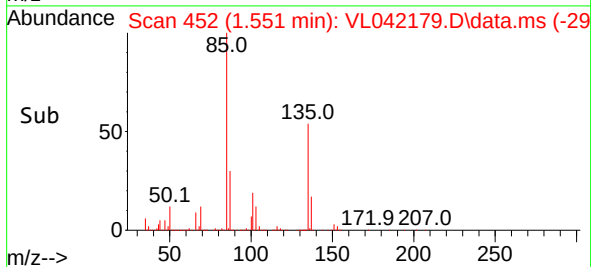
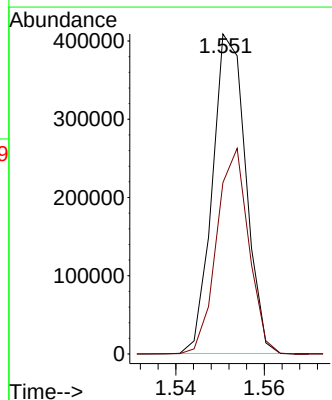
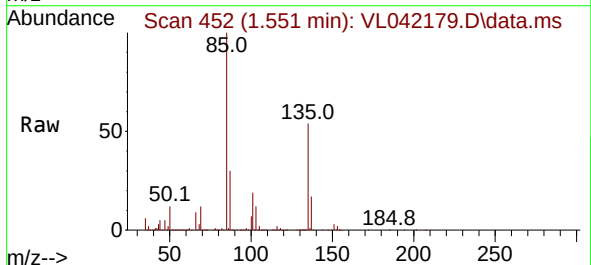
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

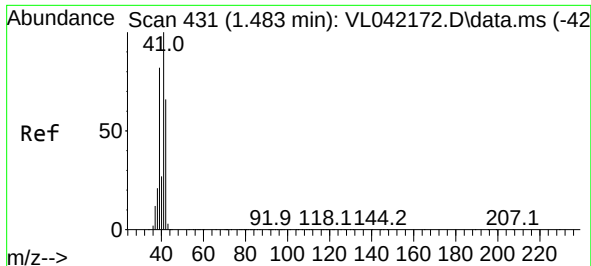
Tgt Ion: 64 Resp: 37400
Ion Ratio Lower Upper
64 100
66 34.5 25.2 37.8



#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 :

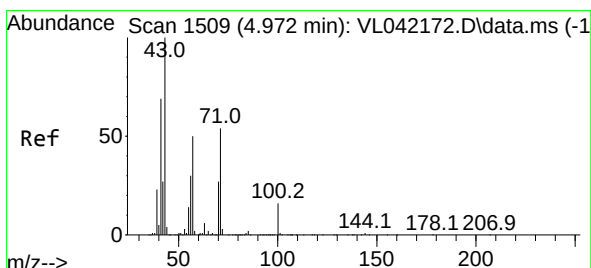
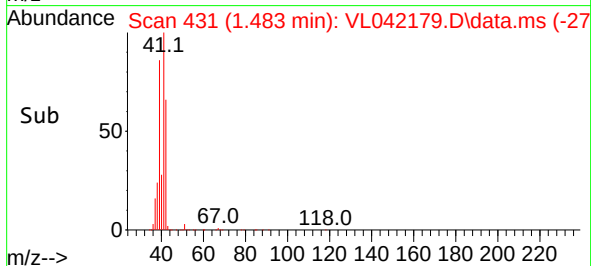
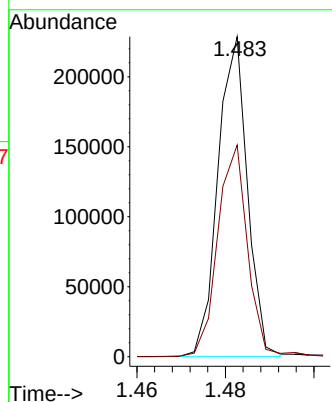
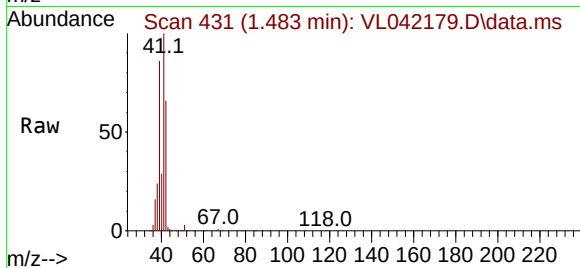
ICVVL032725

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

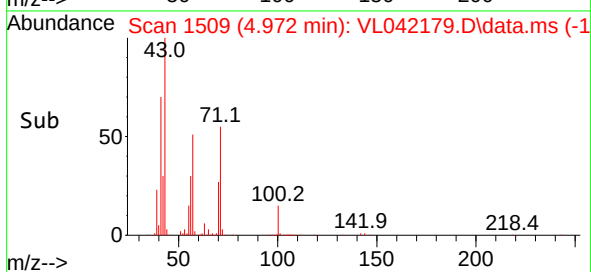
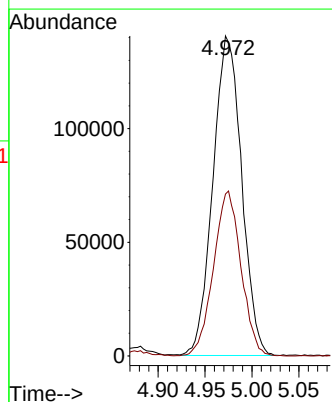
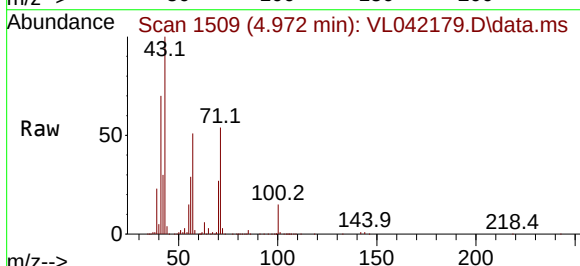
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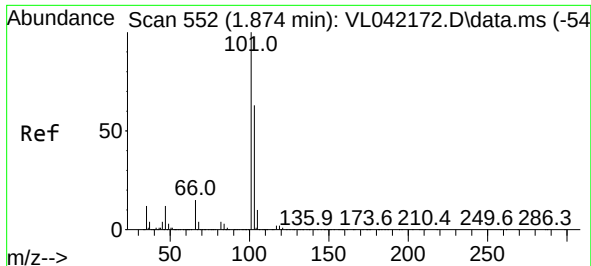
Tgt Ion: 43 Resp: 298768

Ion Ratio Lower Upper

43 100

57 49.5 39.4 59.2

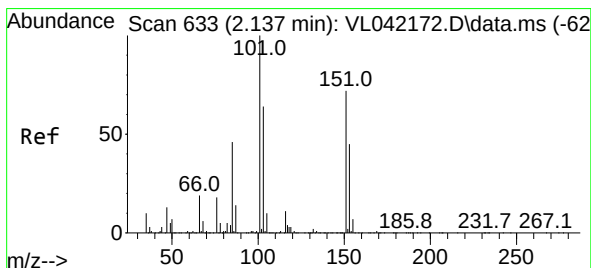
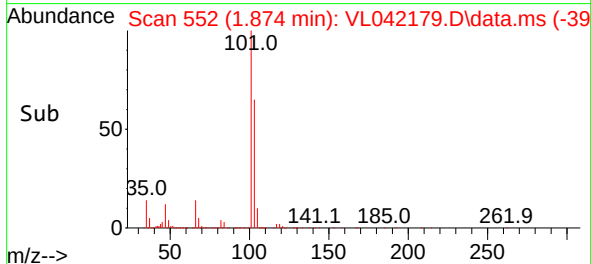
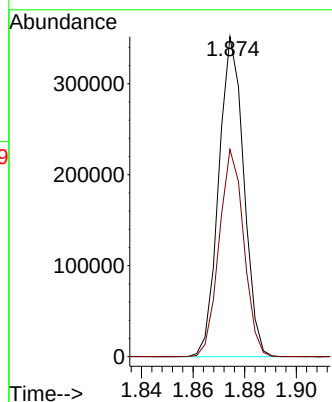
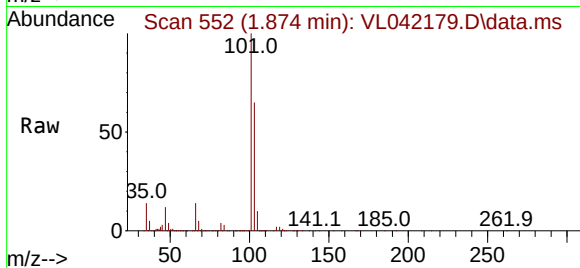




#11
Trichlorofluoromethane
Concen: 9.453 ppbv
RT: 1.874 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

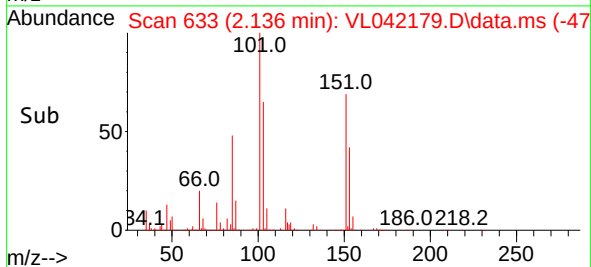
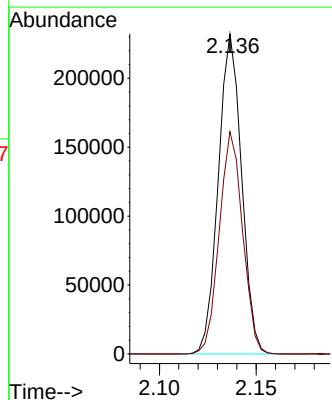
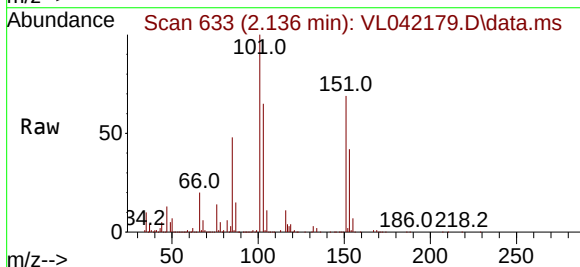
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MSVOA_L
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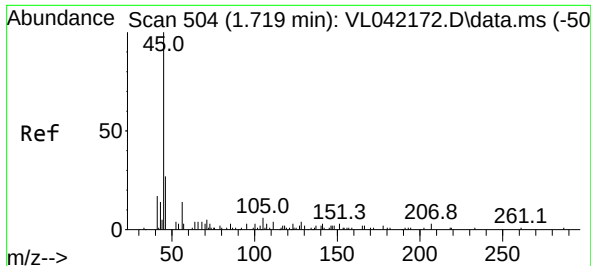
Tgt Ion:101 Resp: 236793
Ion Ratio Lower Upper
101 100
103 64.7 50.2 75.2



#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

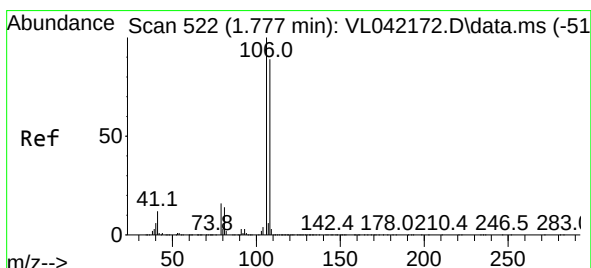
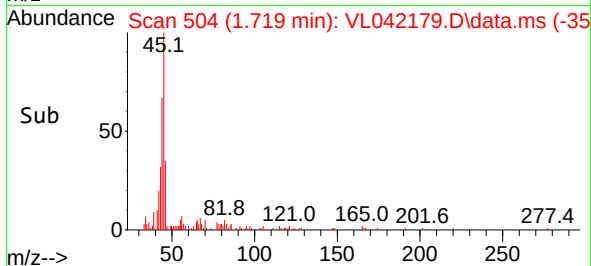
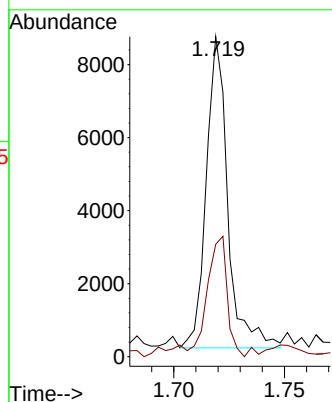
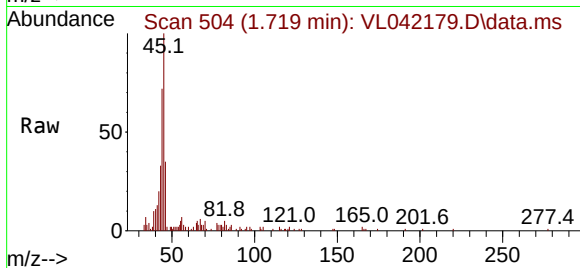




#13
Ethanol
Concen: 5.066 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

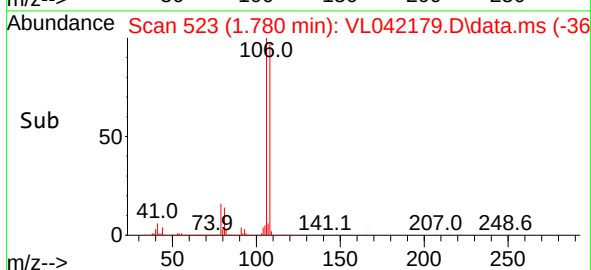
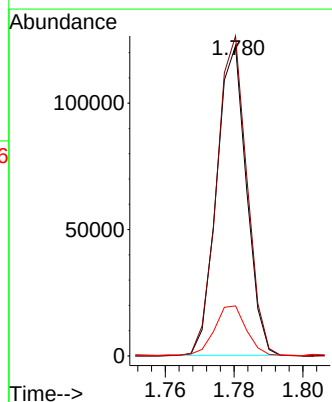
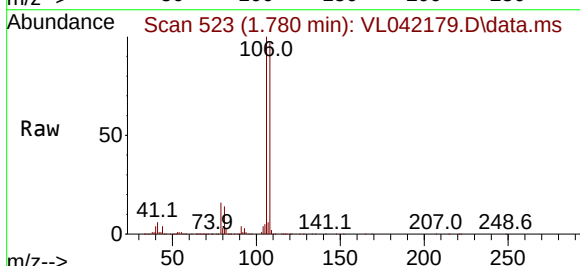
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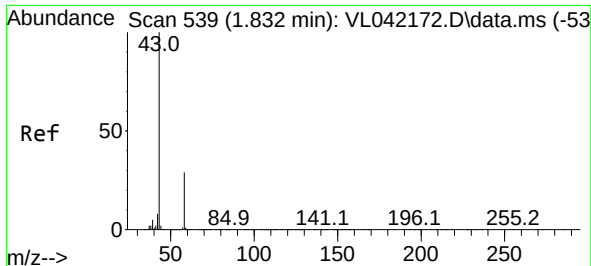
Tgt Ion: 45 Resp: 5773
Ion Ratio Lower Upper
45 100
46 48.5 20.2 80.8



#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

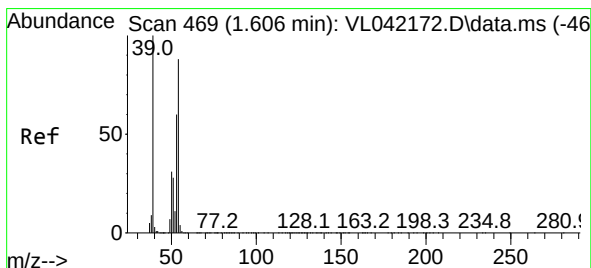
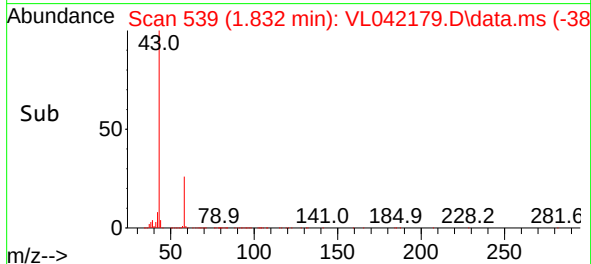
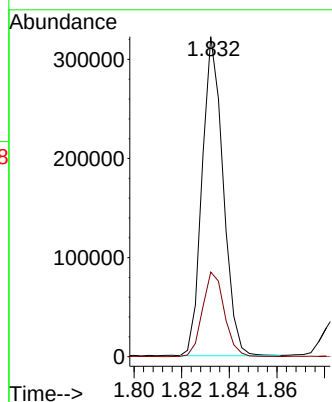
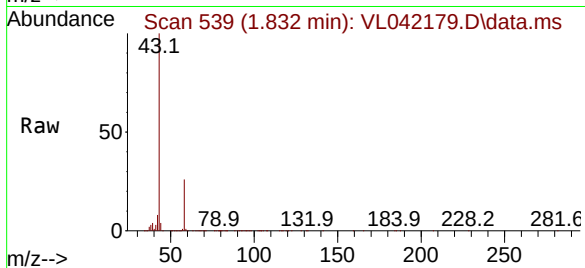




#15
Acetone
Concen: 8.132 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

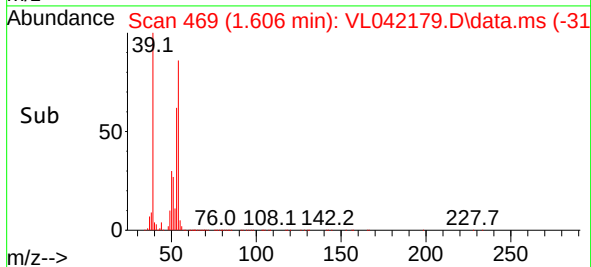
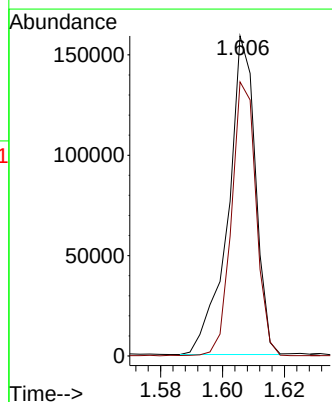
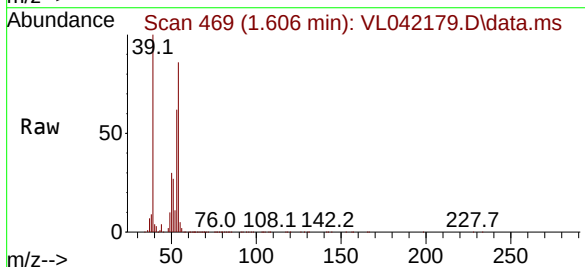
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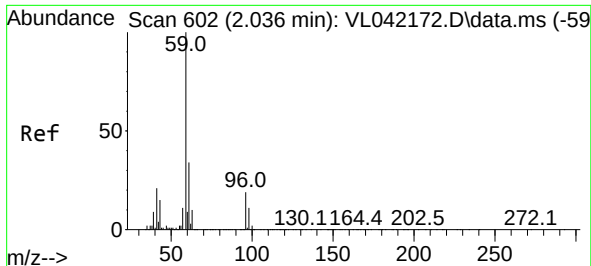
Tgt Ion: 43 Resp: 198300
Ion Ratio Lower Upper
43 100
58 27.7 23.2 34.8



#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

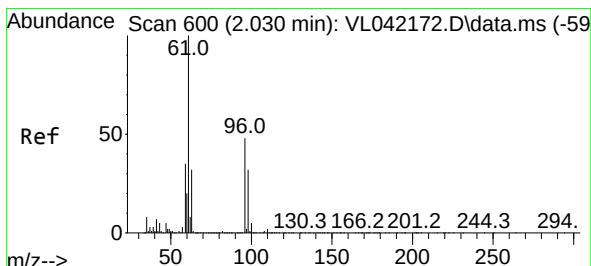
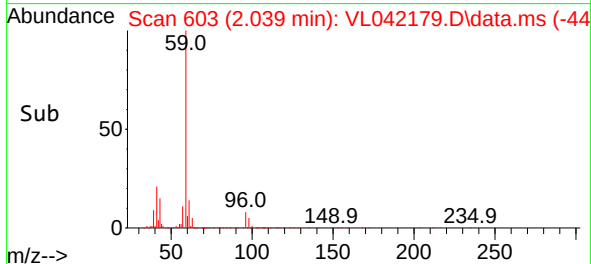
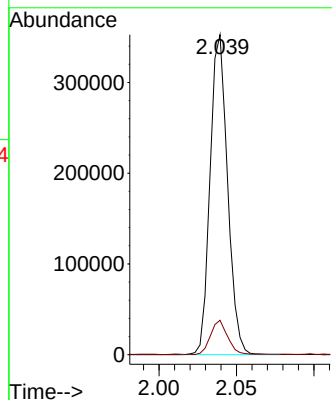
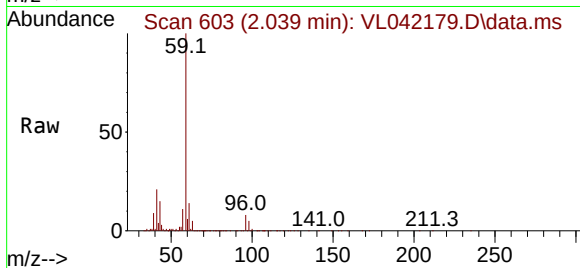




#17
tert-Butyl alcohol
Concen: 9.094 ppbv
RT: 2.039 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

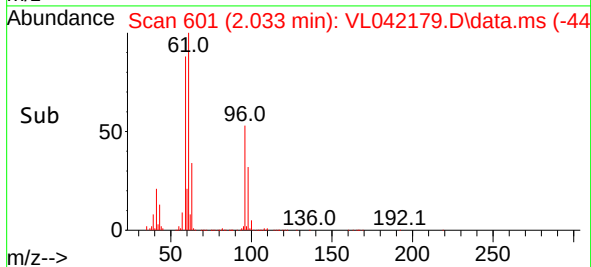
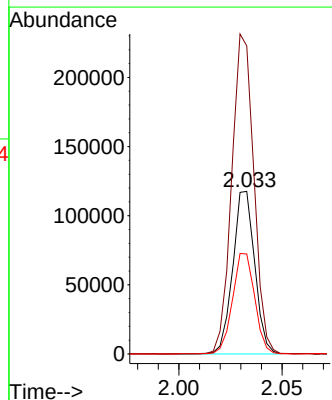
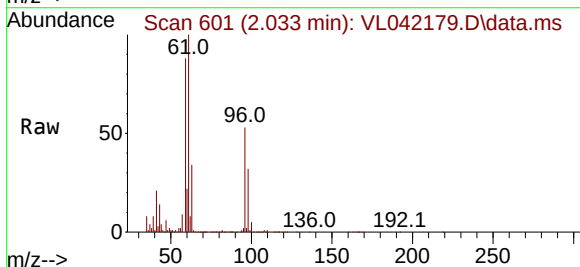
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

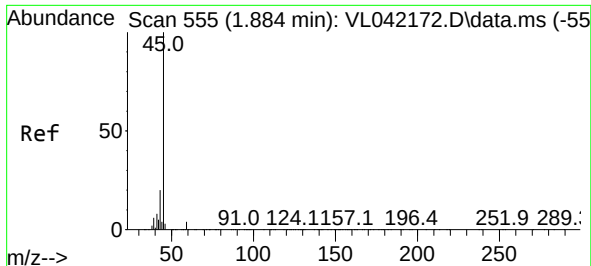
Tgt Ion: 59 Resp: 276195
Ion Ratio Lower Upper
59 100
57 10.6 8.9 13.3



#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

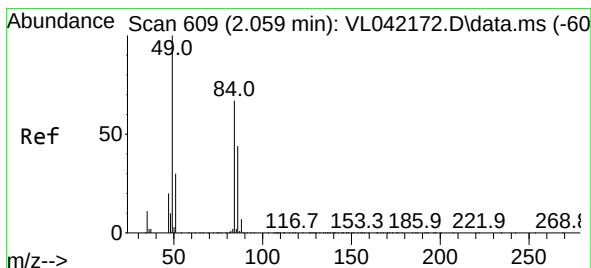
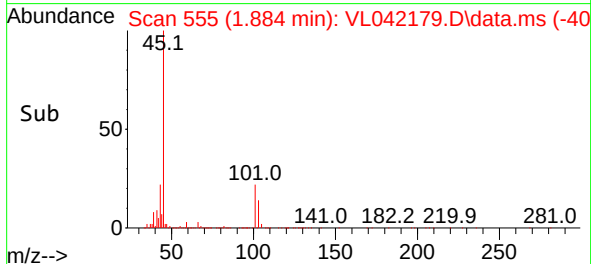
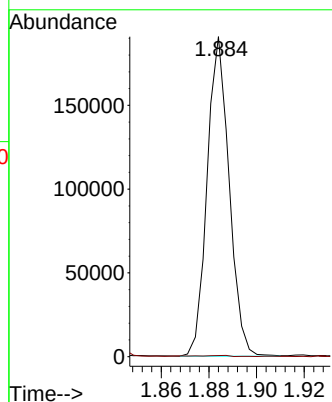
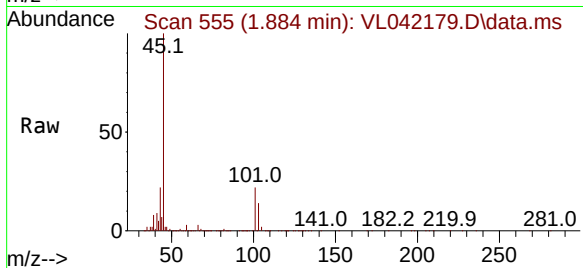




#19
Isopropyl Alcohol
Concen: 8.923 ppbv
RT: 1.884 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

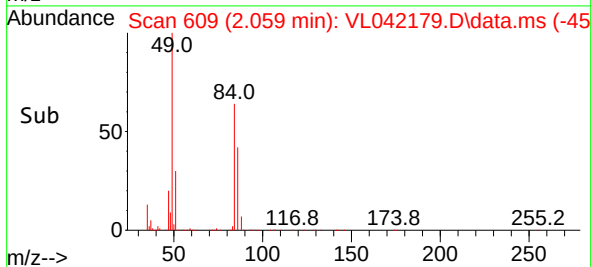
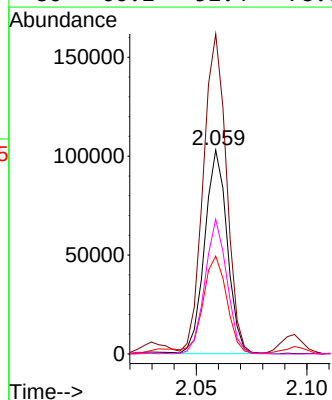
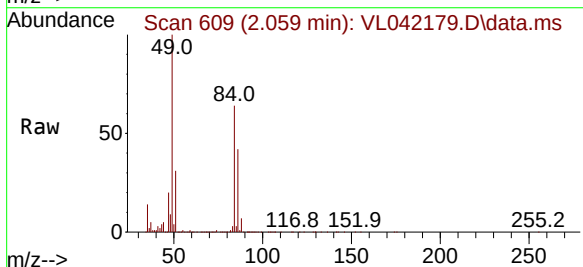
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

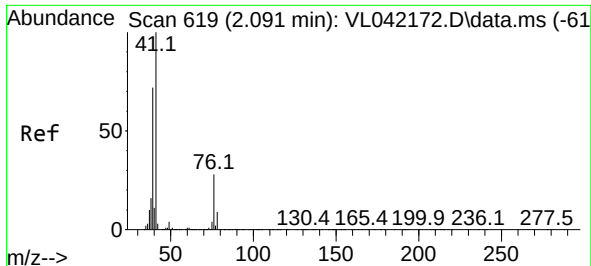
Tgt Ion: 45 Resp: 122768
Ion Ratio Lower Upper
45 100
58 44.9 36.9 55.3



#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

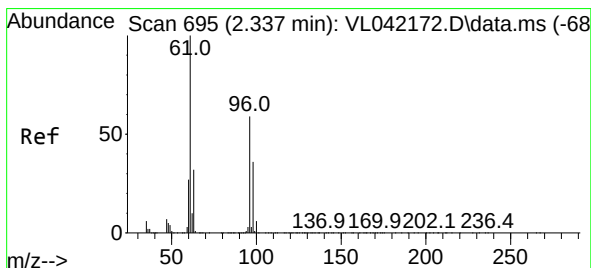
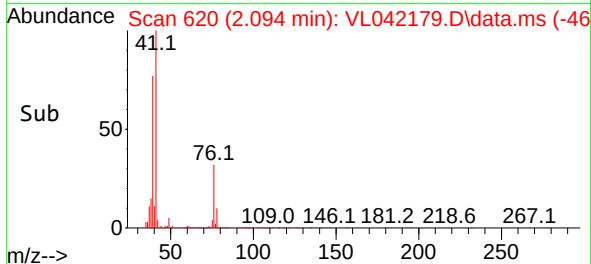
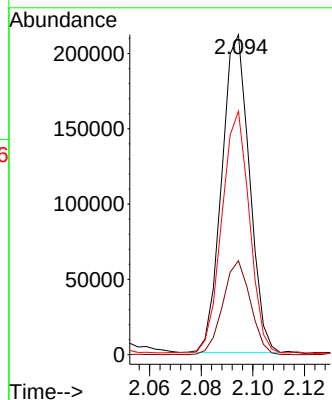
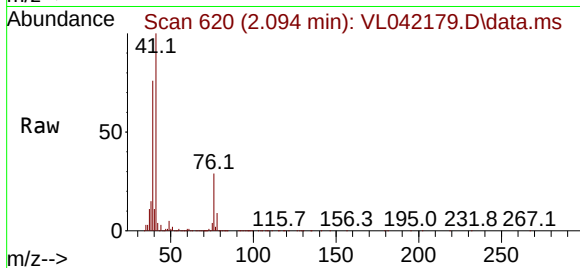




#21
 Allyl Chloride
 Concen: 9.154 ppbv
 RT: 2.094 min Scan# 619
 Delta R.T. 0.003 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

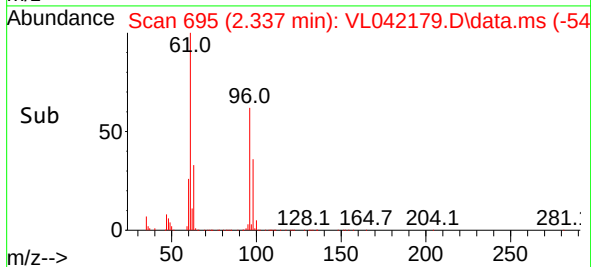
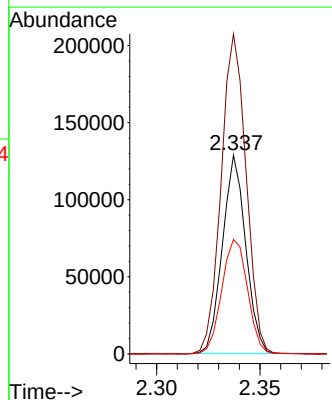
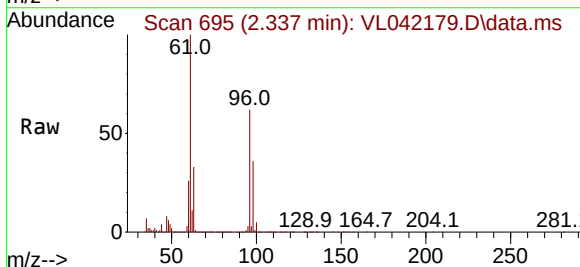
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725

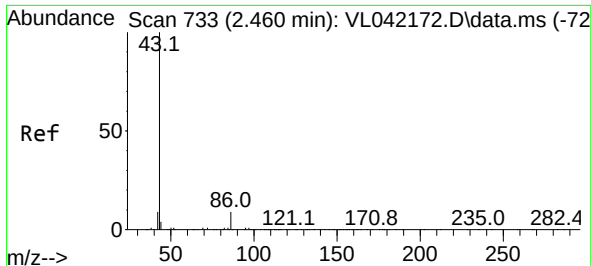
Tgt Ion: 41 Resp: 157418
 Ion Ratio Lower Upper
 41 100
 76 29.6 24.1 36.1
 39 75.5 61.1 91.7



#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

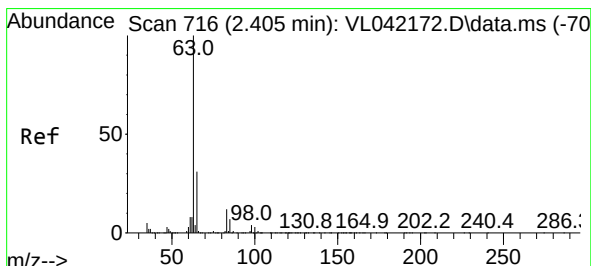
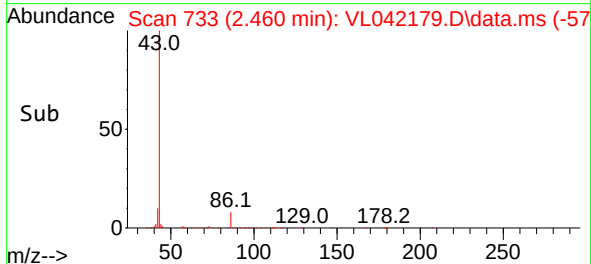
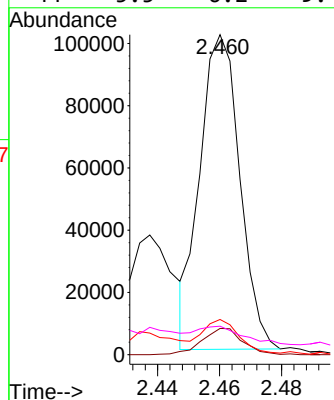
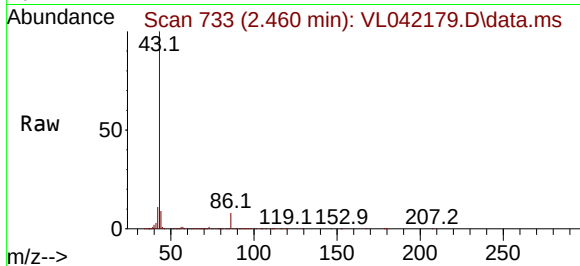




#23
 Vinyl Acetate
 Concen: 8.553 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

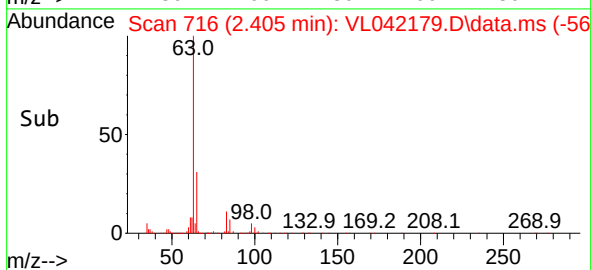
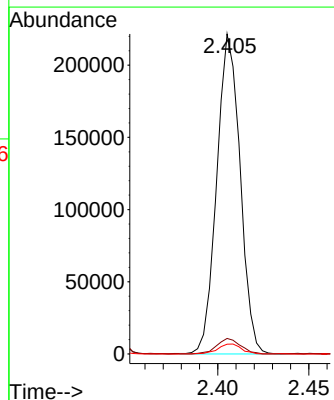
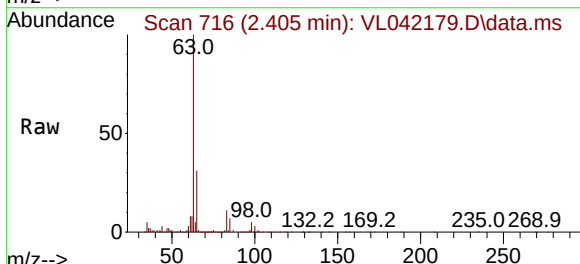
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725

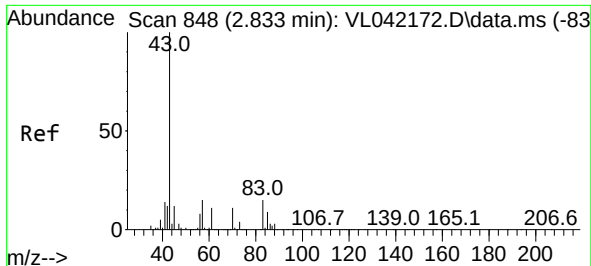
Tgt Ion:	43	Resp:	90260
Ion	Ratio	Lower	Upper
43	100		
86	8.3	5.5	8.3#
42	10.7	8.6	13.0
44	5.5	6.2	9.4#



#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



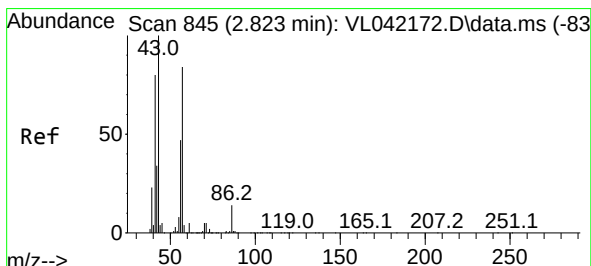
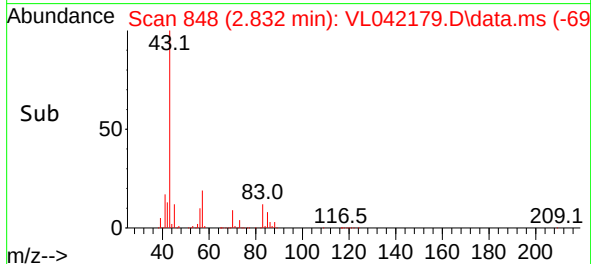
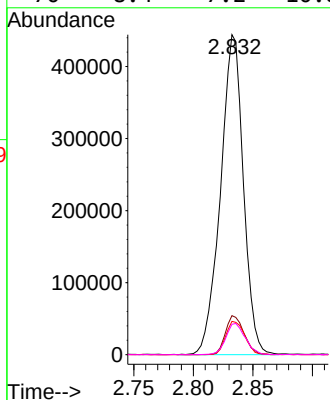
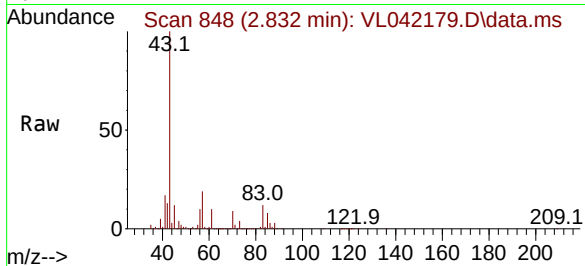


#25
Ethyl Acetate
Concen: 9.364 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Tgt Ion: 43 Resp: 592585

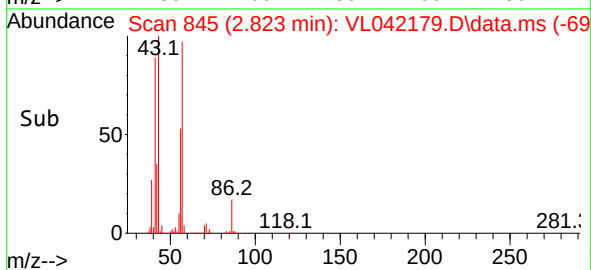
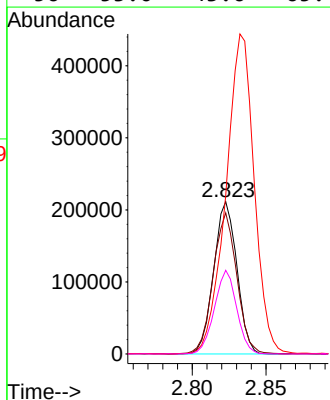
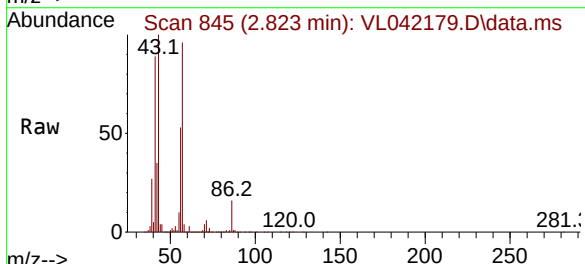
Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.2	12.2
61	8.7	7.3	10.9
70	8.4	7.2	10.8

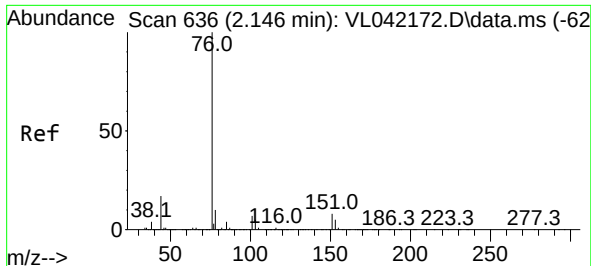


#26
Hexane
Concen: 9.455 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

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

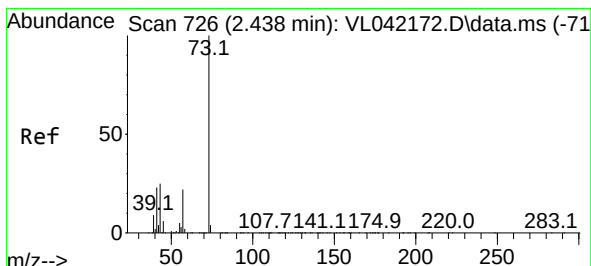
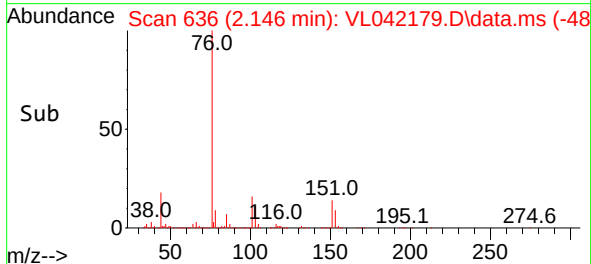
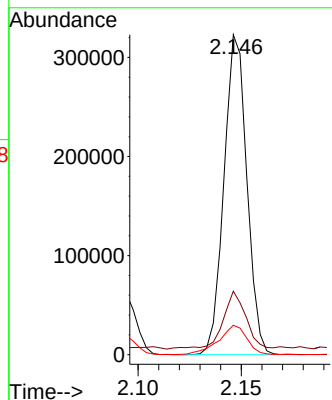
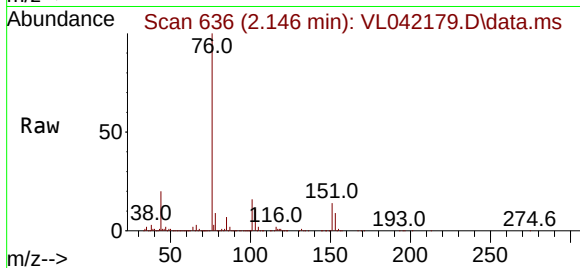




#27
Carbon Disulfide
Concen: 9.493 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

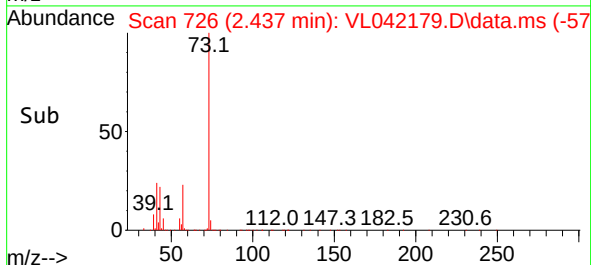
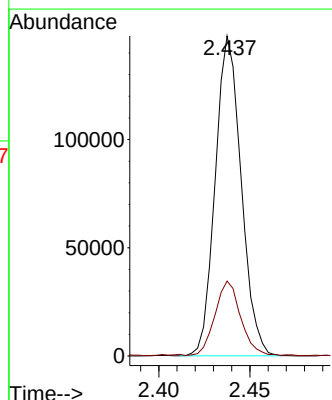
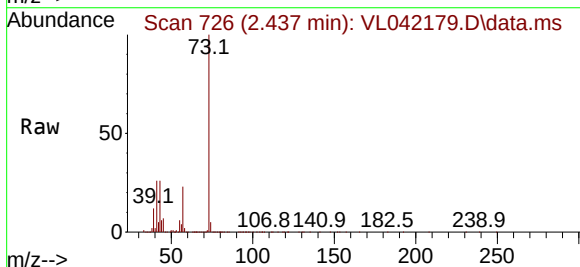
Instrument :
MSVOA_1
ClientSampleId :
ICVVL032725

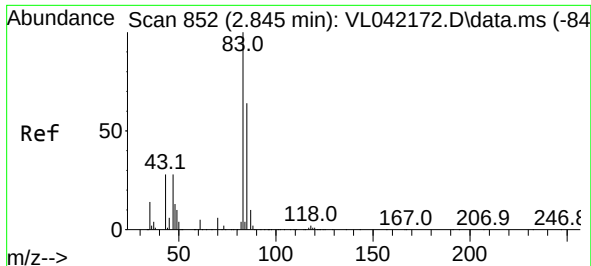
Tgt Ion: 76 Resp: 248834
Ion Ratio Lower Upper
76 100
44 20.1 14.7 22.1
78 11.3 9.3 13.9



#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 :

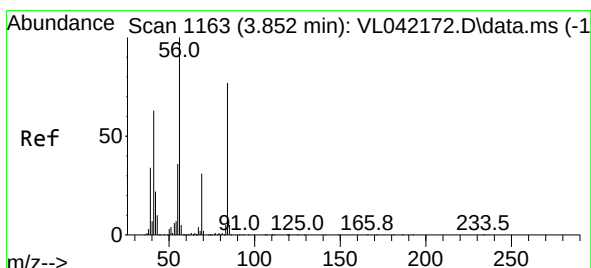
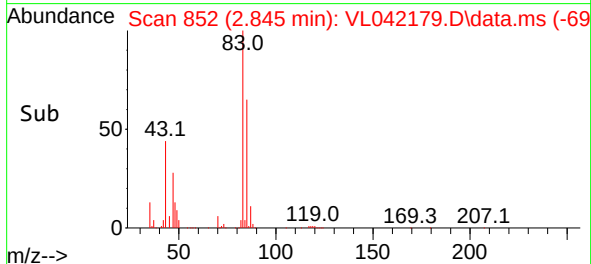
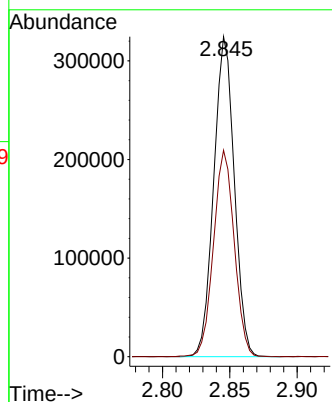
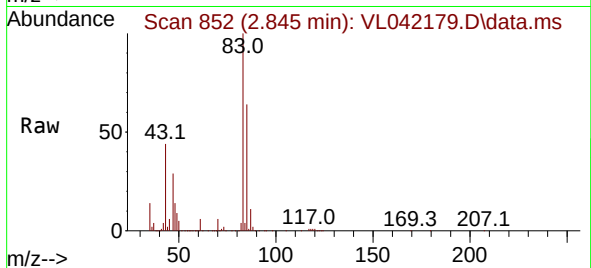
ICVVL032725

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

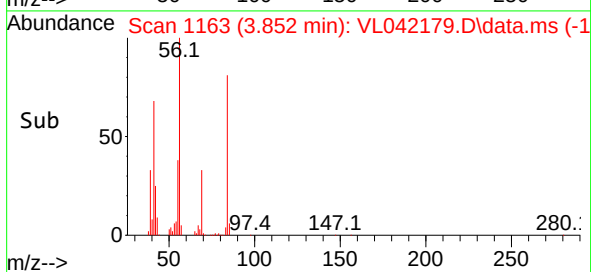
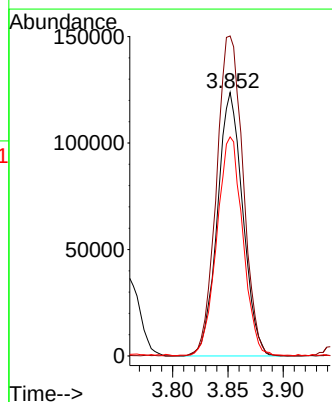
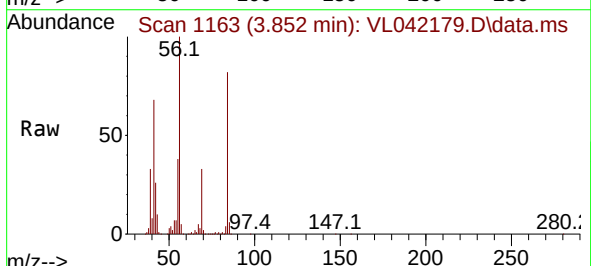
Tgt Ion: 84 Resp: 197897

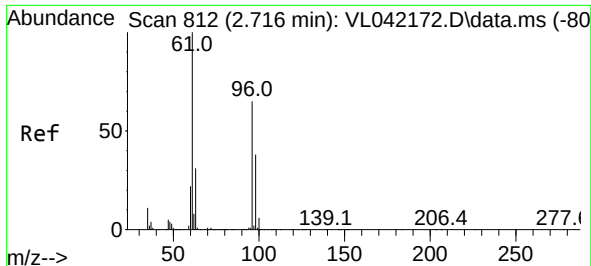
Ion Ratio Lower Upper

84 100

56 126.8 102.8 154.2

41 84.6 66.5 99.7

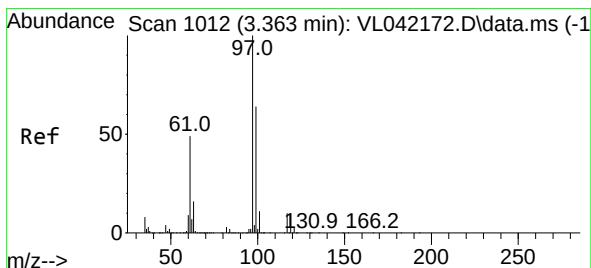
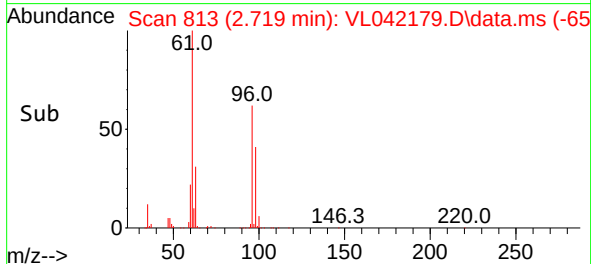
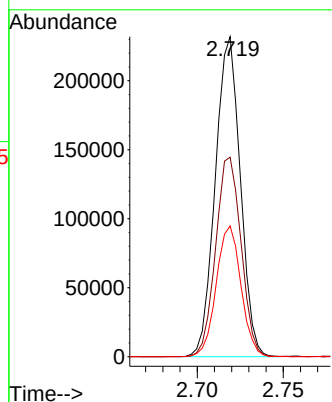
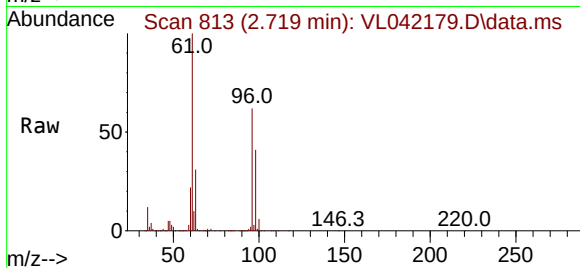




#31
 cis-1,2-Dichloroethene
 Concen: 9.449 ppbv
 RT: 2.719 min Scan# 812
 Delta R.T. 0.003 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

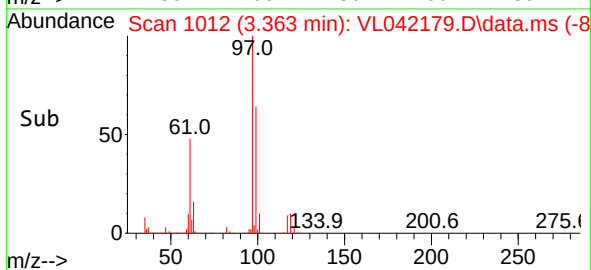
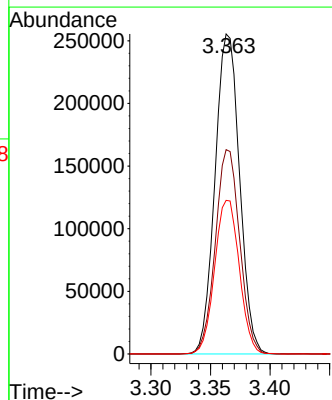
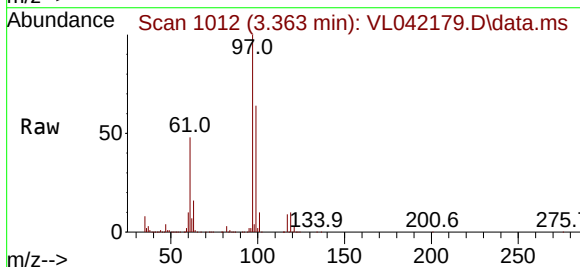
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725

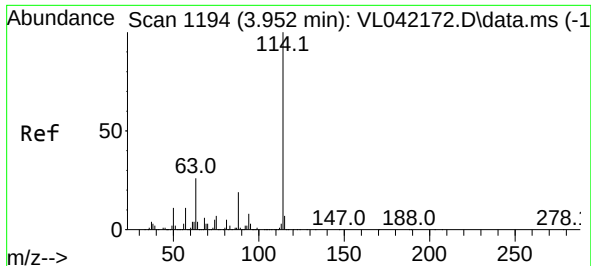
Tgt Ion: 61 Resp: 234487
 Ion Ratio Lower Upper
 61 100
 96 62.3 51.8 77.8
 98 40.9 30.6 46.0



#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

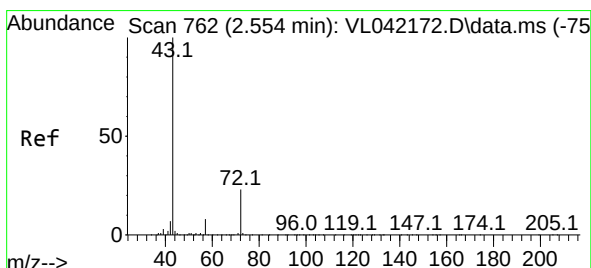
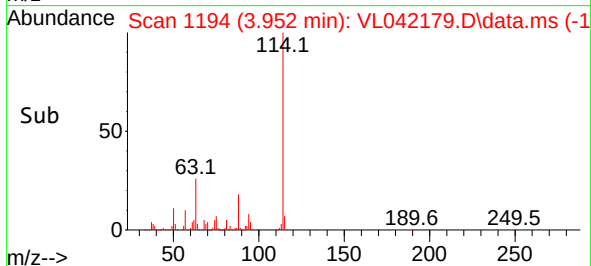
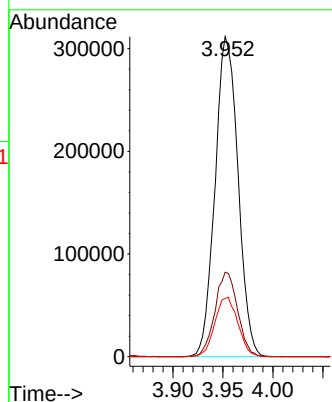
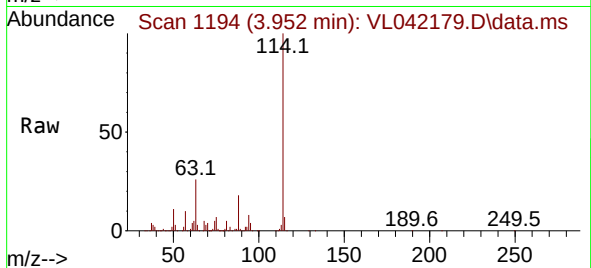
Tgt Ion:114 Resp: 498105

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

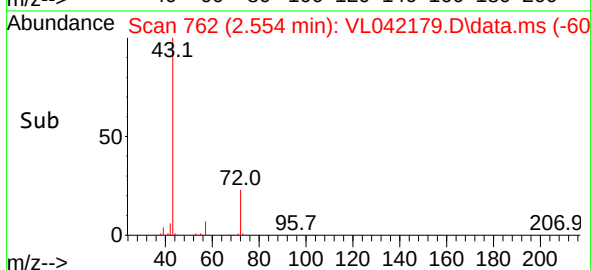
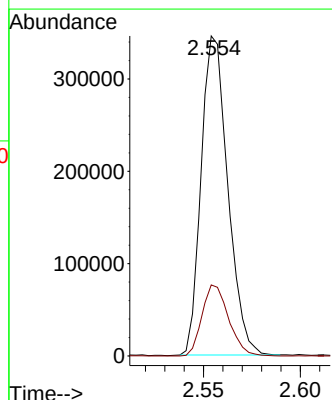
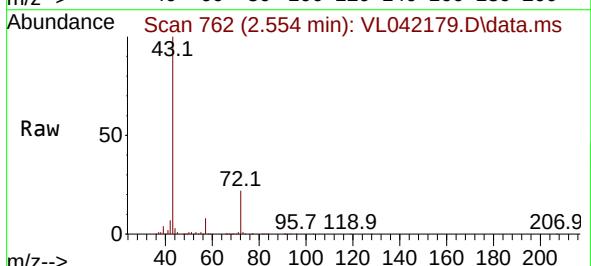
Acq: 27 Mar 2025 12:23

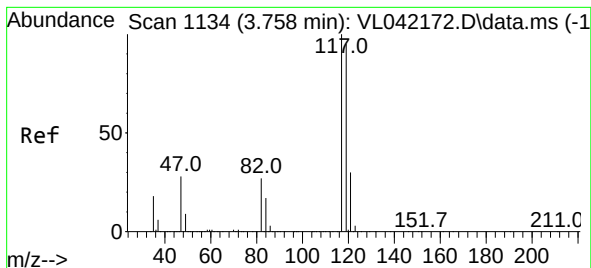
Tgt Ion: 43 Resp: 331236

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

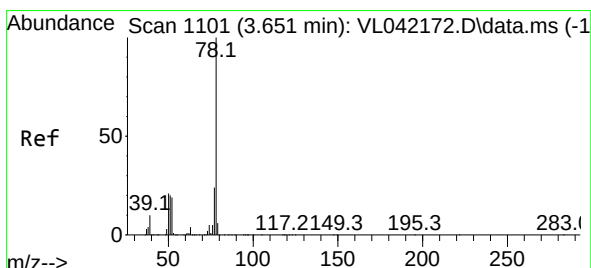
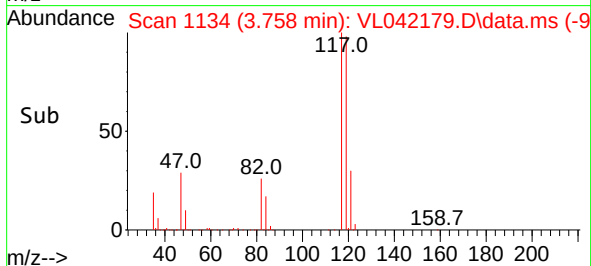
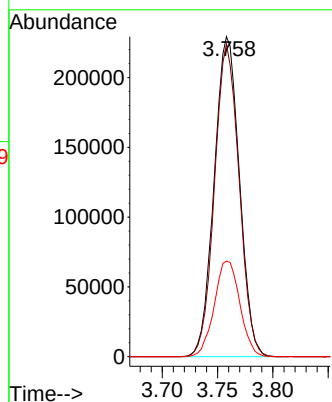
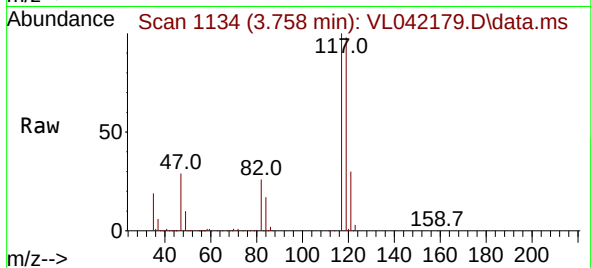
Tgt Ion:117 Resp: 363392

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

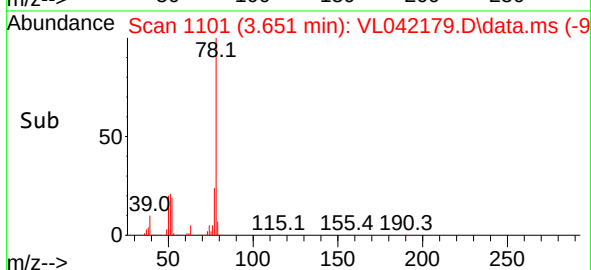
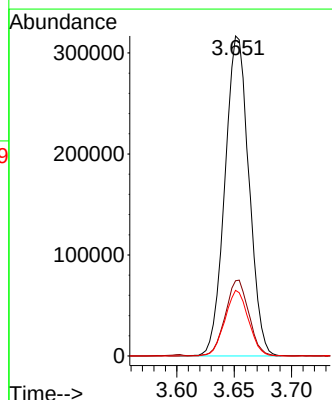
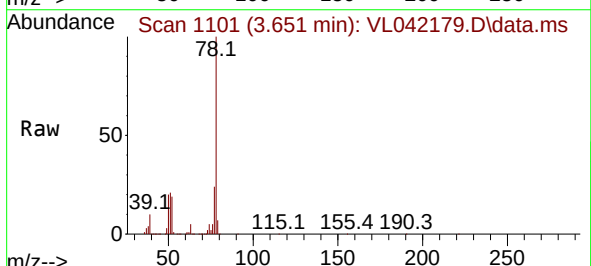
Tgt Ion: 78 Resp: 461261

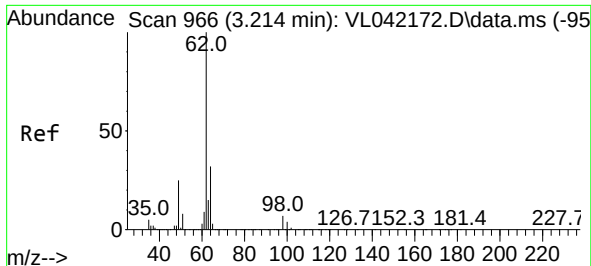
Ion Ratio Lower Upper

78 100

77 23.5 19.1 28.7

50 20.4 16.6 24.8

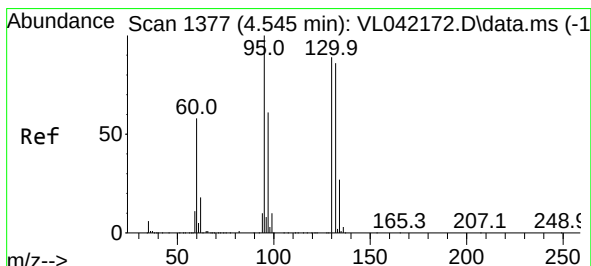
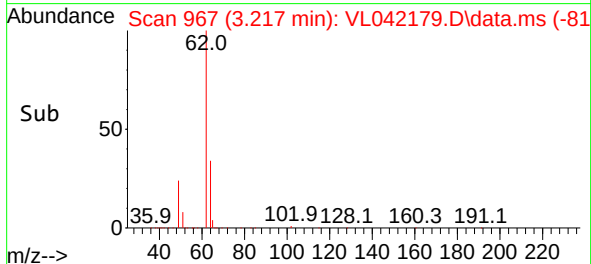
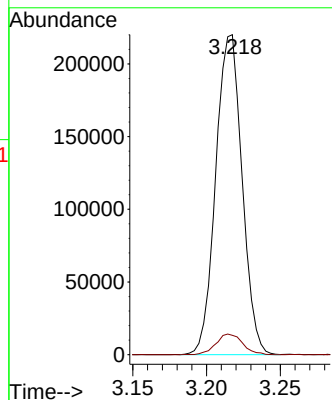
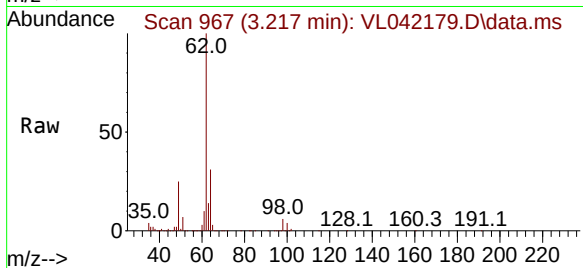




#37
1,2-Dichloroethane
Concen: 9.676 ppbv
RT: 3.217 min Scan# 966
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

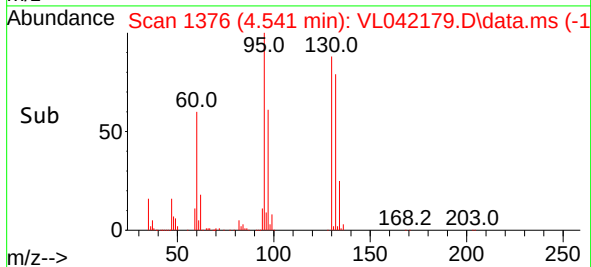
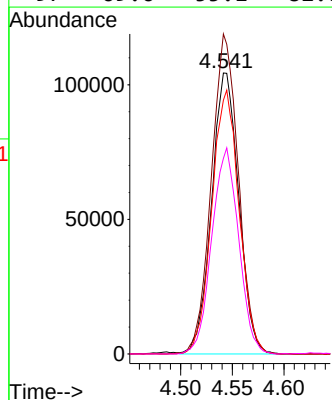
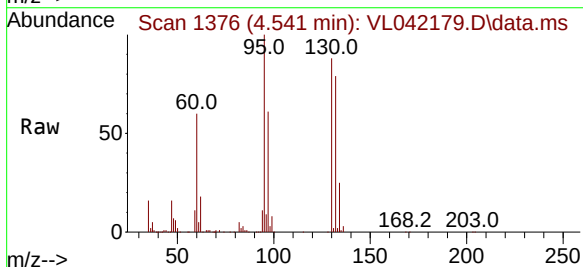
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

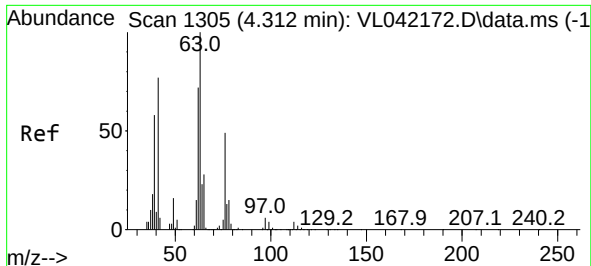
Tgt Ion: 62 Resp: 273559
Ion Ratio Lower Upper
62 100
98 6.6 5.4 8.2



#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

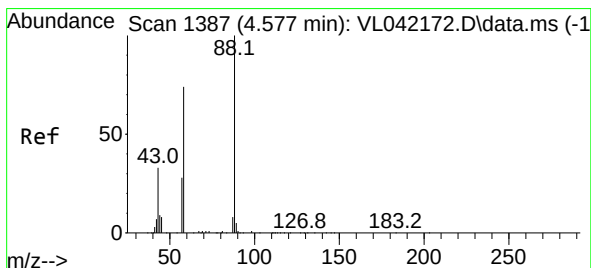
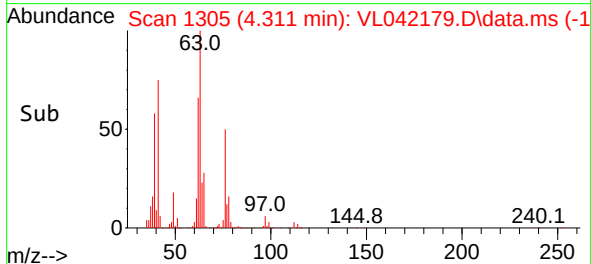
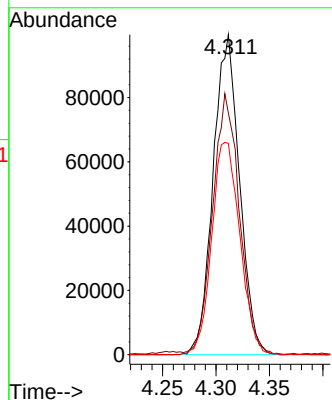
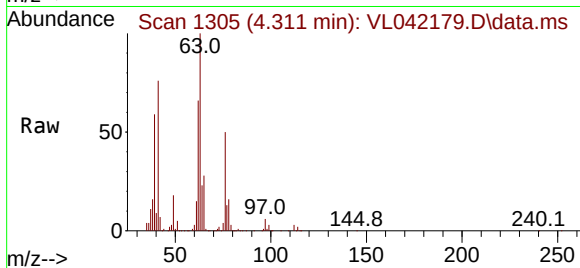
Tgt Ion: 63 Resp: 170839

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

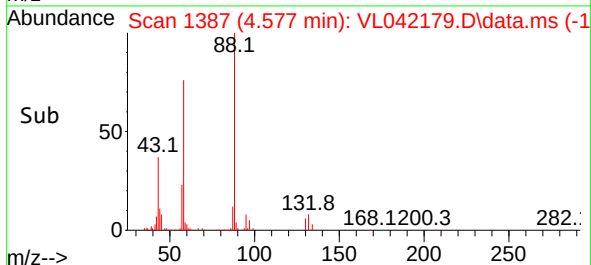
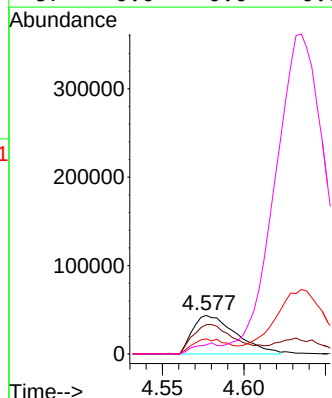
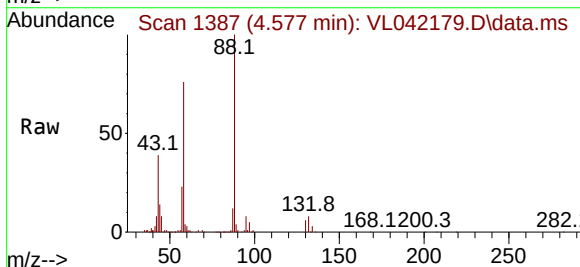
Ion Ratio Lower Upper

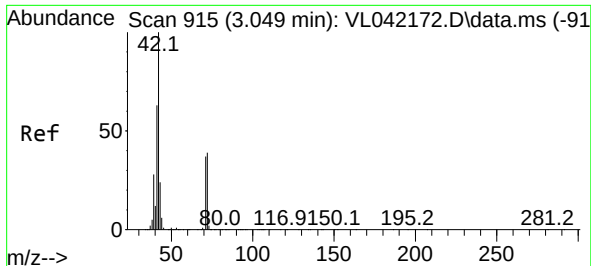
88 100

58 76.2 62.7 94.1

43 31.4 23.0 34.4

57 0.0 0.0 0.0

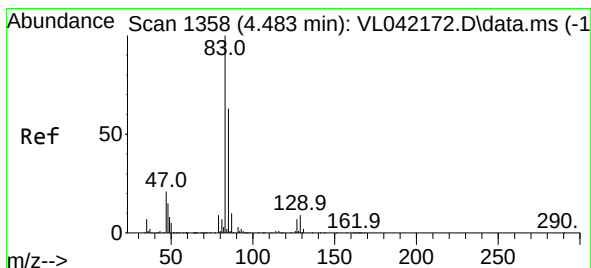
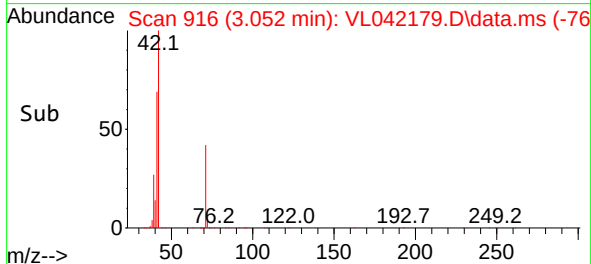
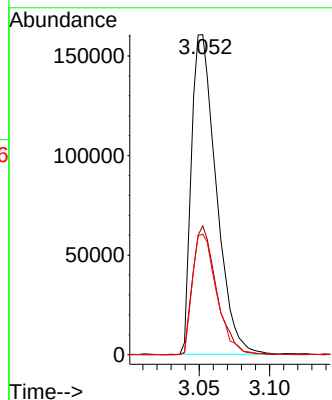
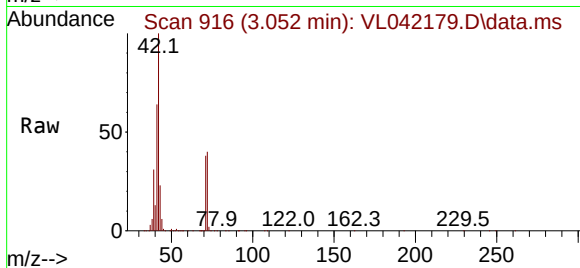




#41
Tetrahydrofuran
Concen: 9.431 ppbv
RT: 3.052 min Scan# 915
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

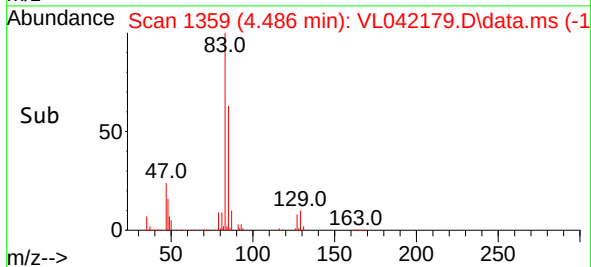
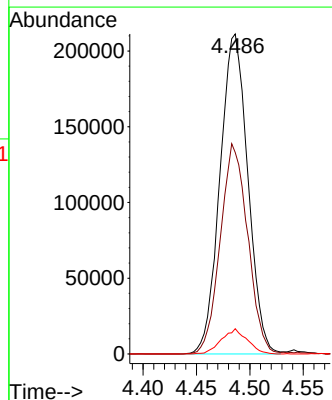
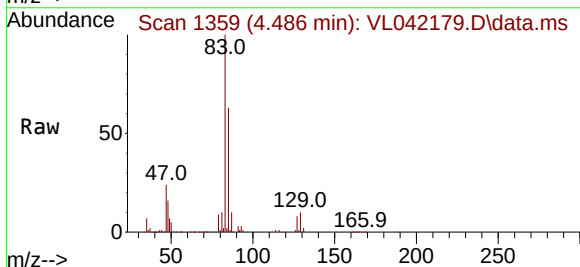
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

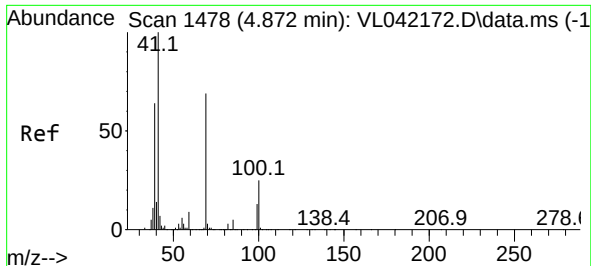
Tgt Ion: 42 Resp: 196163
Ion Ratio Lower Upper
42 100
72 38.9 31.4 47.0
71 37.2 30.2 45.4



#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

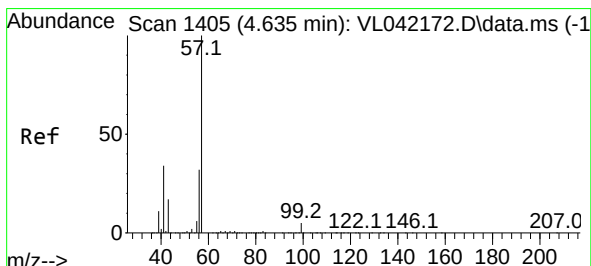
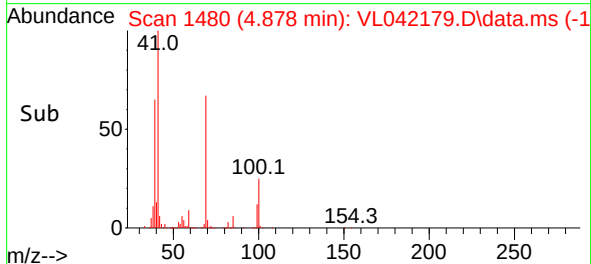
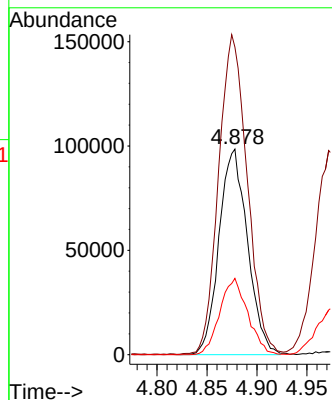
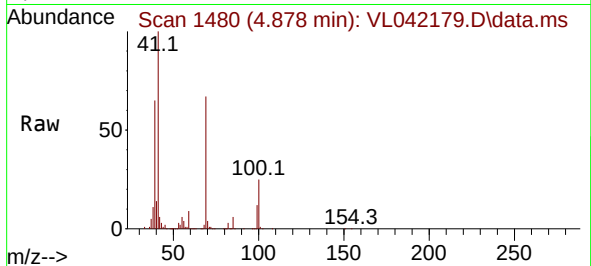




#43
Methyl Methacrylate
Concen: 9.344 ppbv
RT: 4.878 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

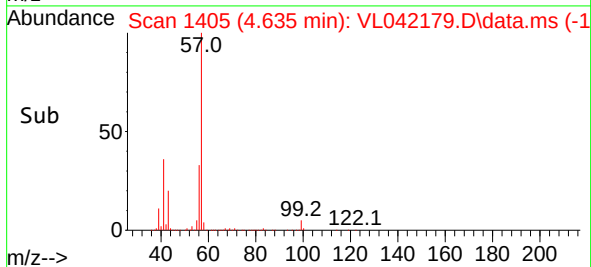
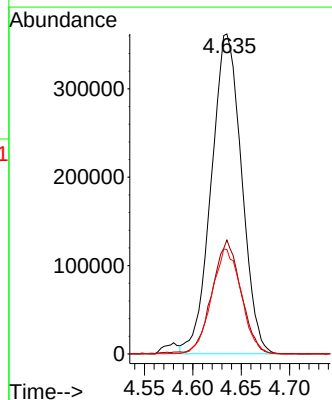
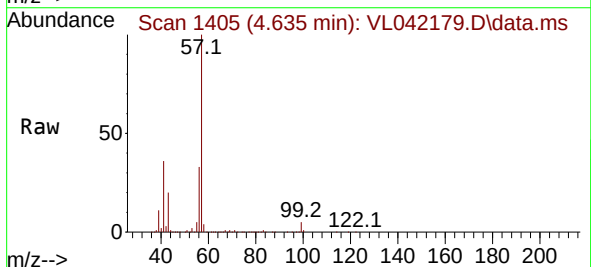
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

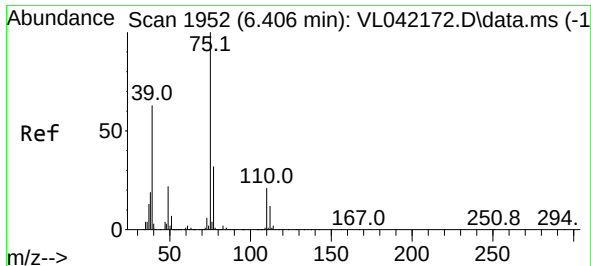
Tgt Ion: 69 Resp: 195339
Ion Ratio Lower Upper
69 100
41 156.4 123.8 185.6
100 36.4 28.4 42.6



#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 :

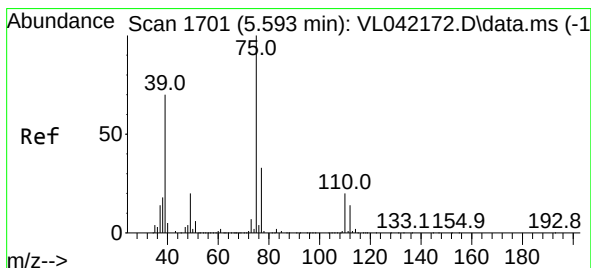
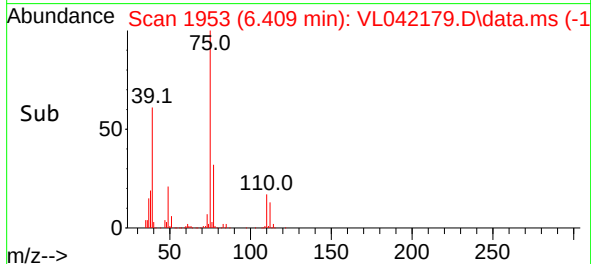
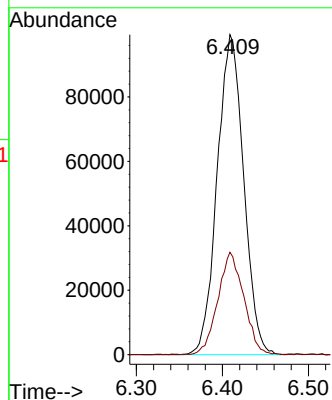
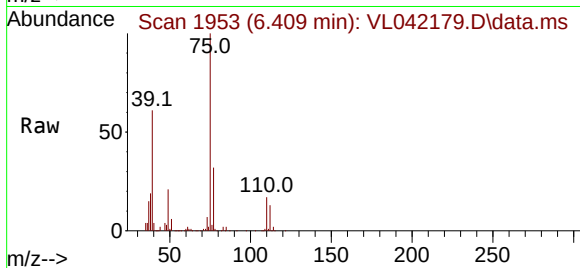
ICVVL032725

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

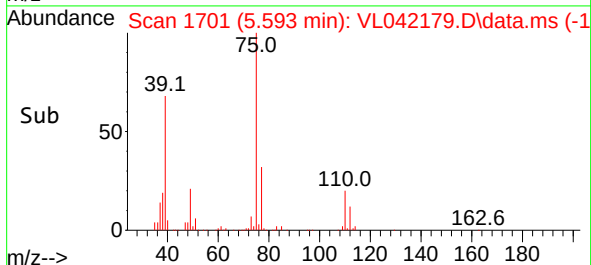
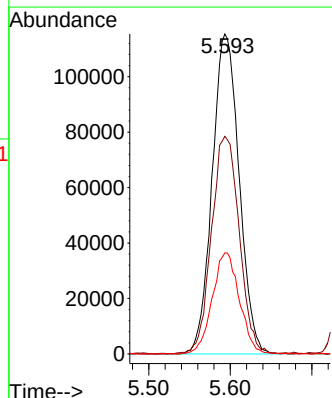
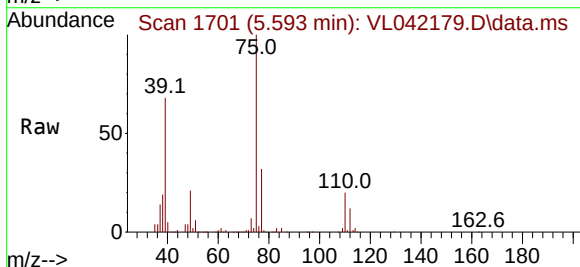
Tgt Ion: 75 Resp: 265101

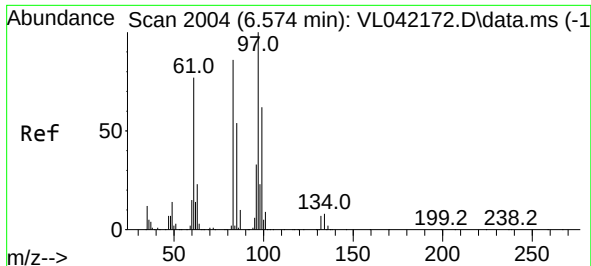
Ion Ratio Lower Upper

75 100

39 67.8 55.8 83.6

77 31.6 26.0 39.0



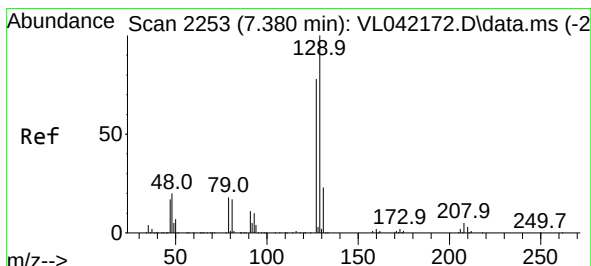
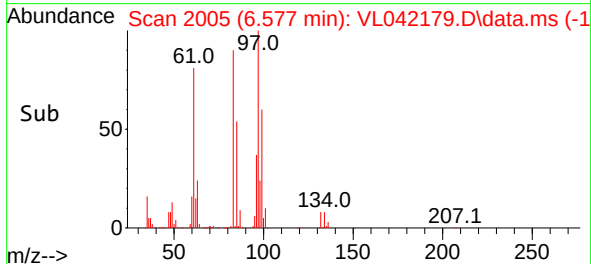
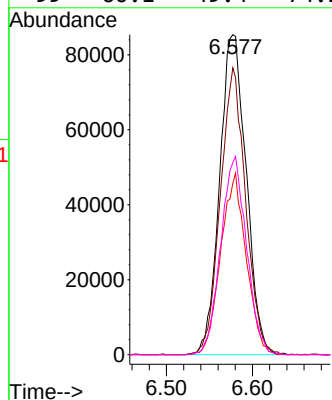
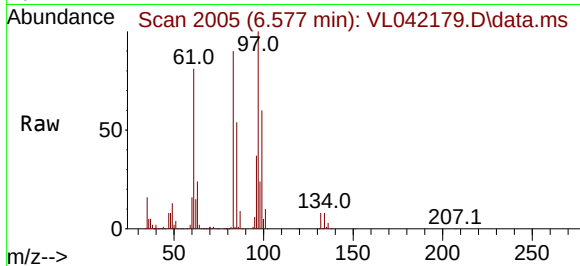


#47
1,1,2-Trichloroethane
Concen: 9.638 ppbv
RT: 6.577 min Scan# 2005
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Tgt Ion: 97 Resp: 183228

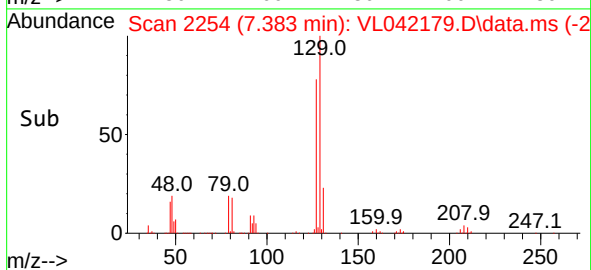
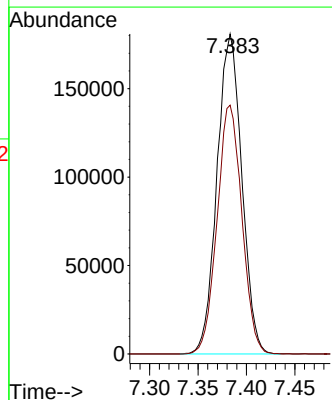
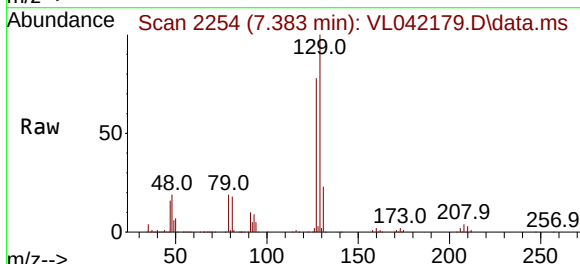
Ion	Ratio	Lower	Upper
97	100		
83	89.7	69.2	103.8
85	53.6	43.1	64.7
99	60.1	49.4	74.2

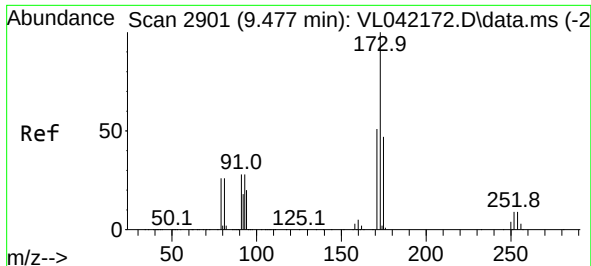


#48
Dibromochloromethane
Concen: 10.018 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

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

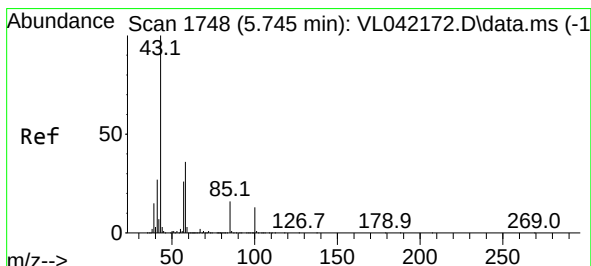
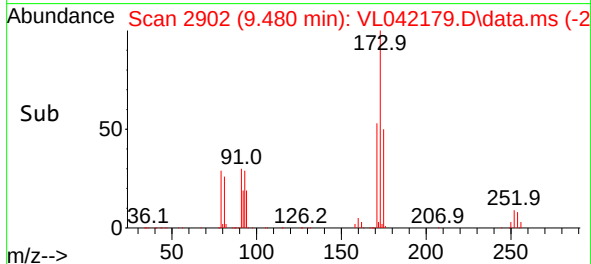
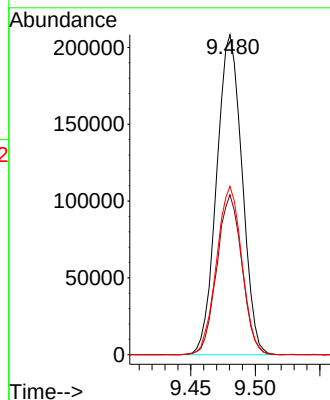
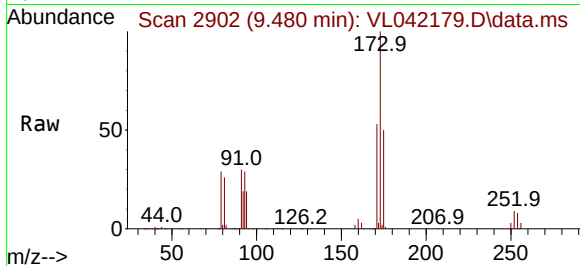
Tgt Ion:173 Resp: 285149

Ion Ratio Lower Upper

173 100

175 49.2 38.6 57.8

171 52.4 41.8 62.6



#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

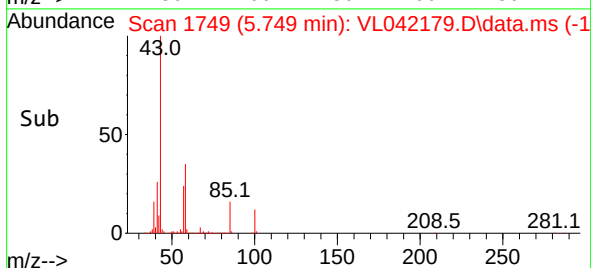
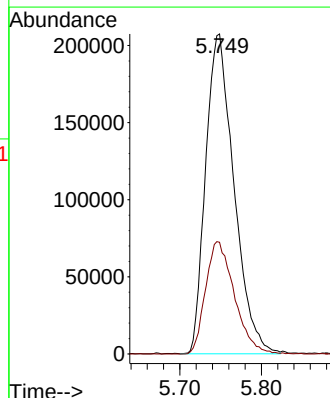
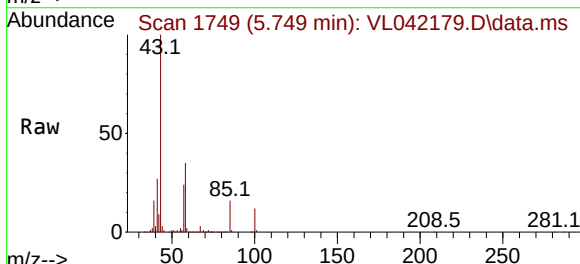
Acq: 27 Mar 2025 12:23

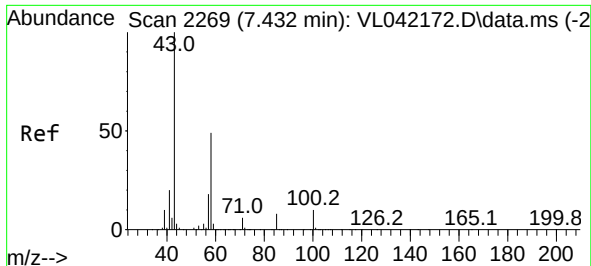
Tgt Ion: 43 Resp: 500791

Ion Ratio Lower Upper

43 100

58 35.8 29.0 43.6

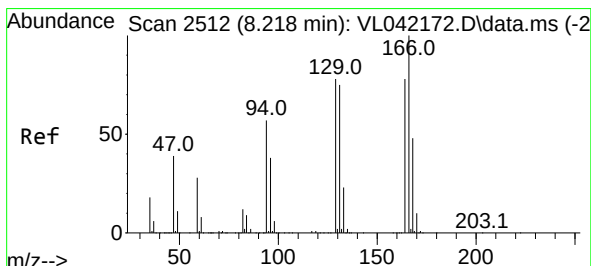
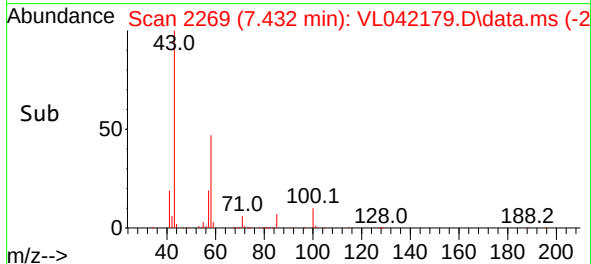
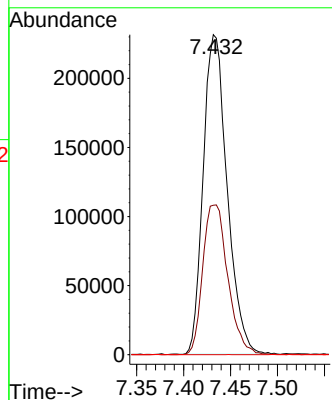
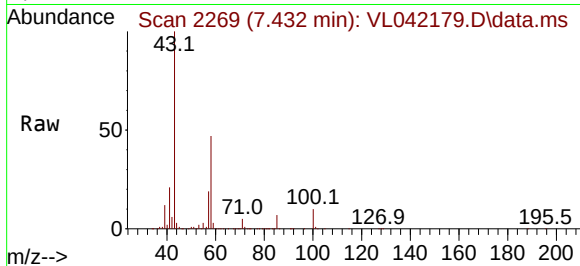




#51
2-Hexanone
Concen: 8.741 ppbv
RT: 7.432 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

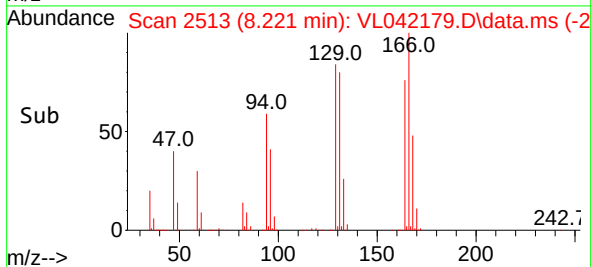
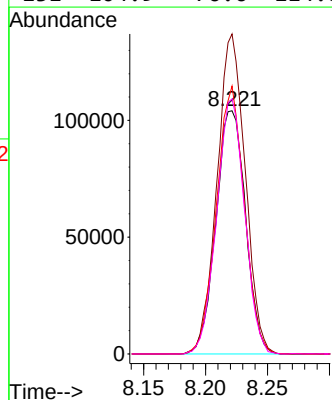
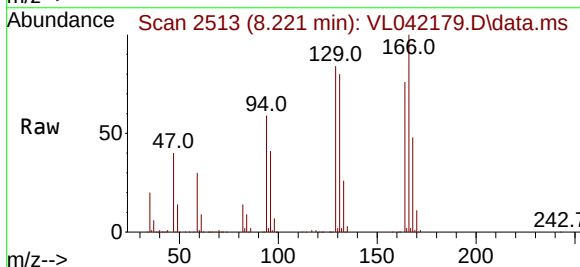
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

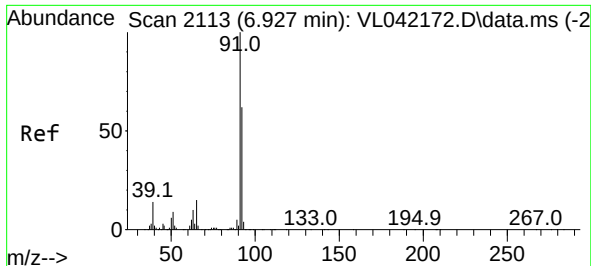
Tgt Ion: 43 Resp: 410889
Ion Ratio Lower Upper
43 100
58 48.9 39.7 59.5
98 0.0 0.1 0.1#



#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

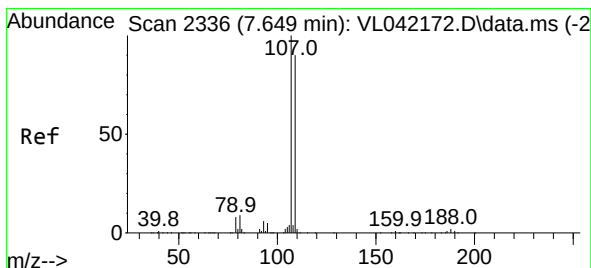
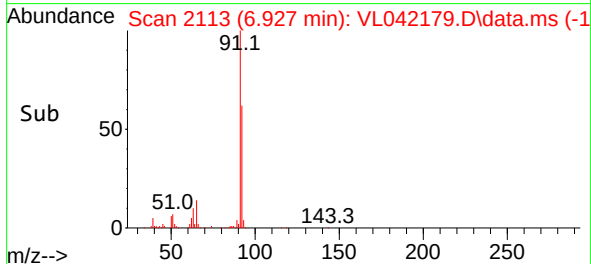
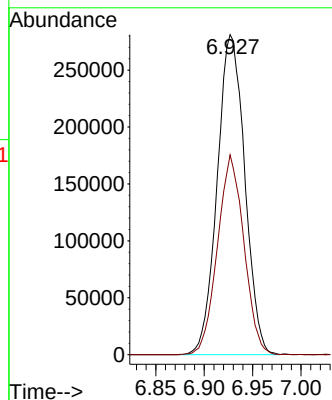
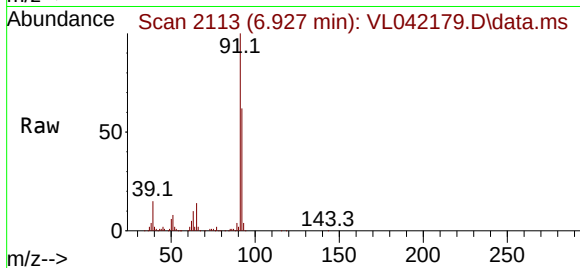




#53
Toluene
Concen: 9.514 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

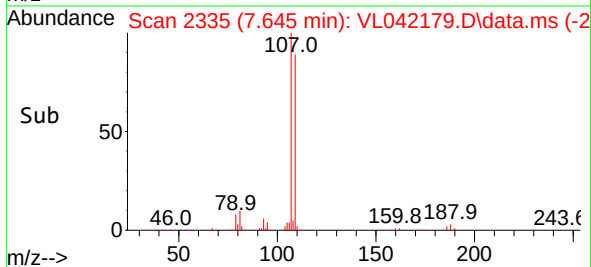
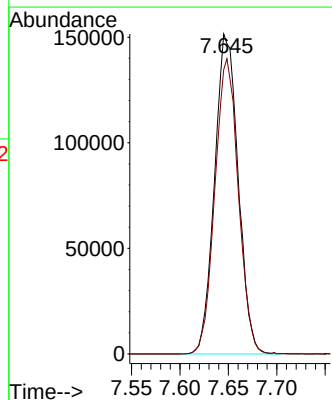
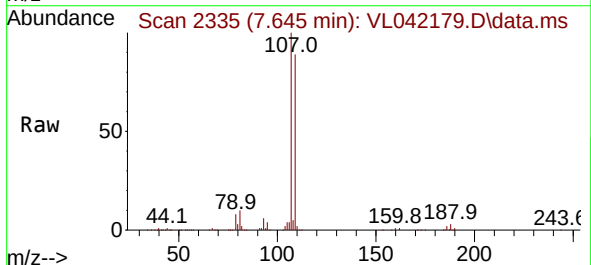
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

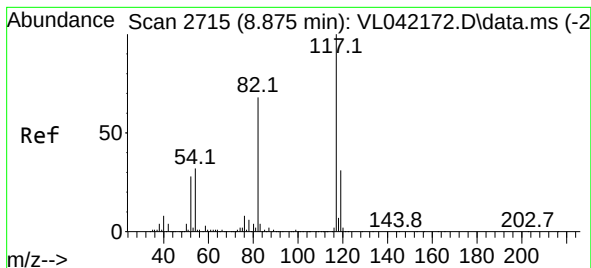
Tgt Ion: 91 Resp: 556897
Ion Ratio Lower Upper
91 100
92 59.8 48.4 72.6



#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

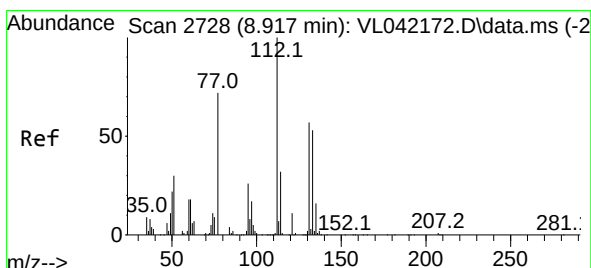
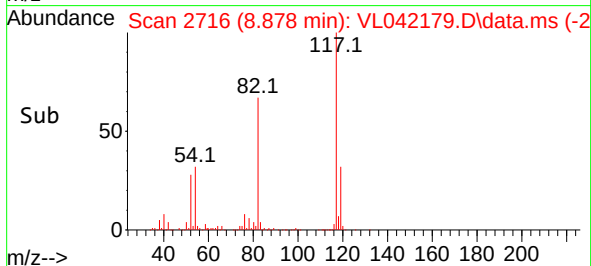
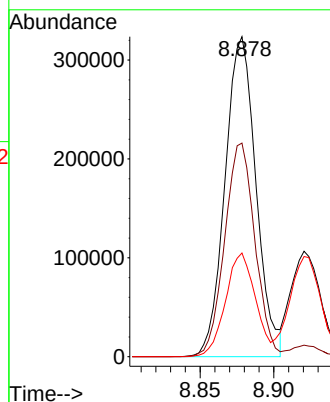
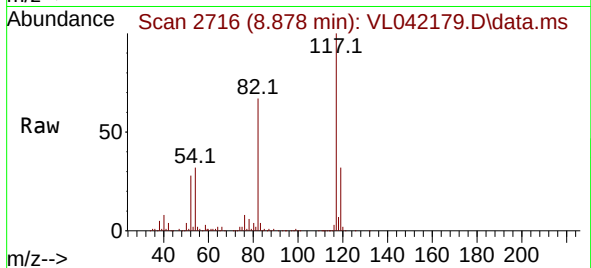
Tgt Ion:117 Resp: 473357

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

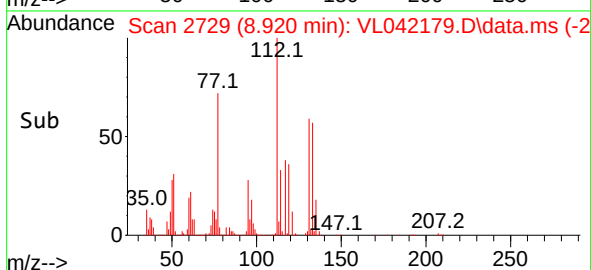
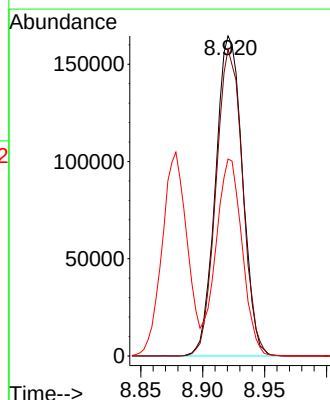
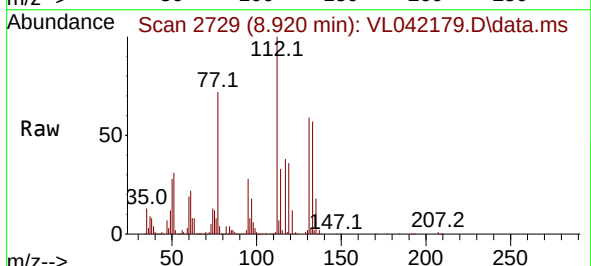
Tgt Ion:131 Resp: 249270

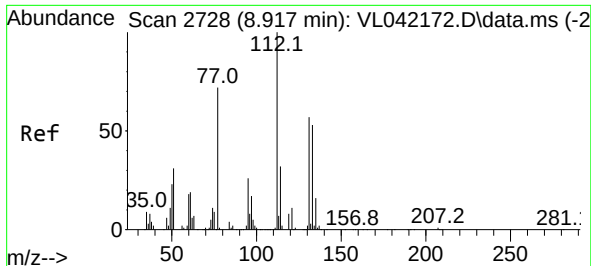
Ion Ratio Lower Upper

131 100

133 95.0 76.6 114.8

119 61.3 49.8 74.6

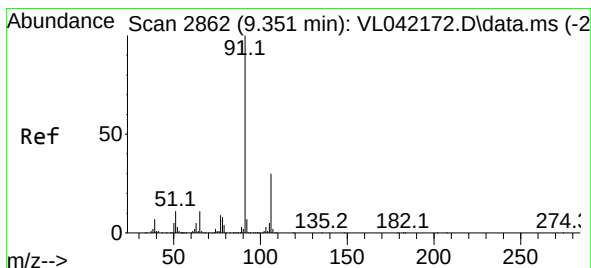
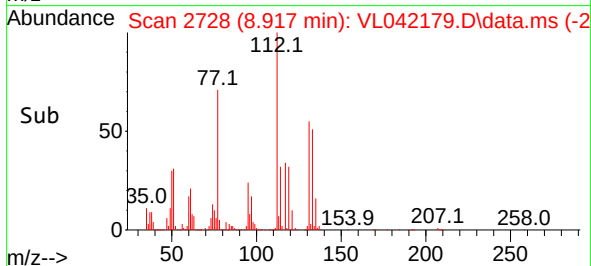
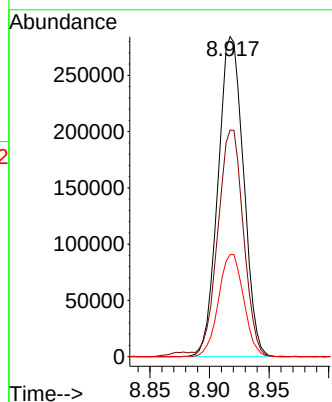
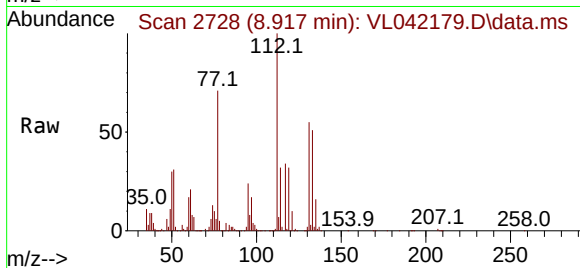




#57
Chlorobenzene
Concen: 9.411 ppbv
RT: 8.917 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

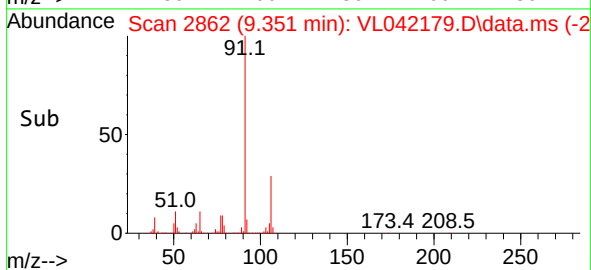
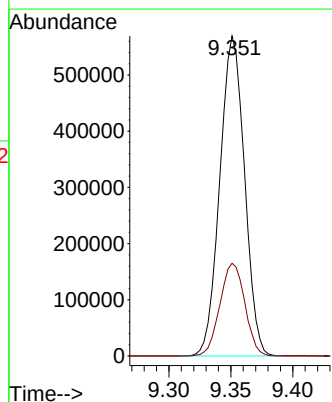
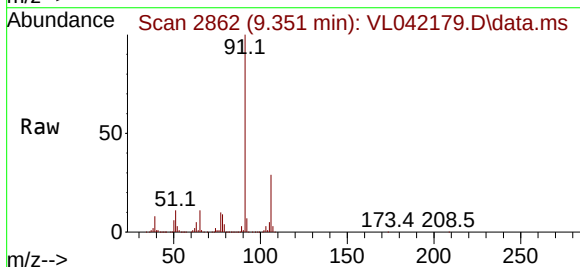
Instrument :
MSVOA_1
ClientSampleId :
ICVVL032725

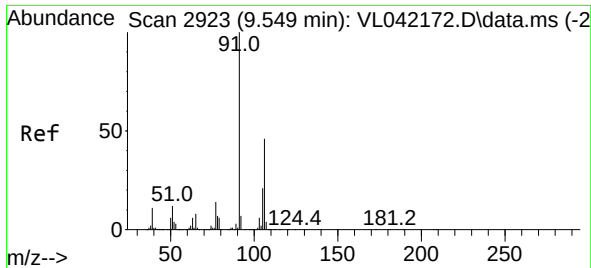
Tgt Ion:112 Resp: 422531
Ion Ratio Lower Upper
112 100
77 70.6 58.2 87.2
114 31.9 29.1 35.5



#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

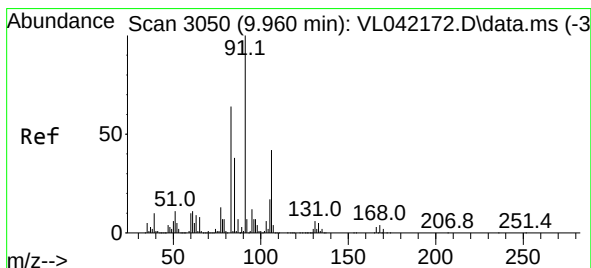
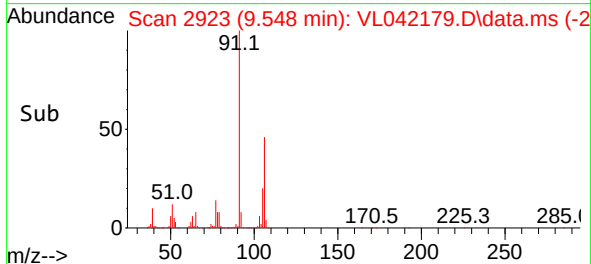
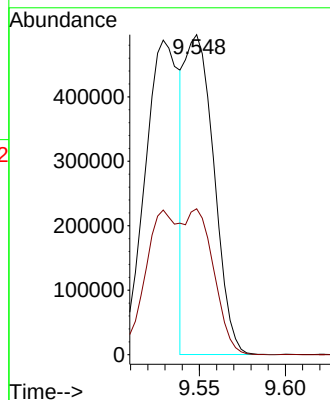
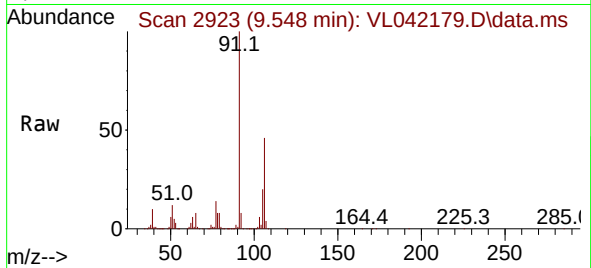




#59
m/p-Xylene
Concen: 8.695 ppbv
RT: 9.548 min Scan# 2923
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

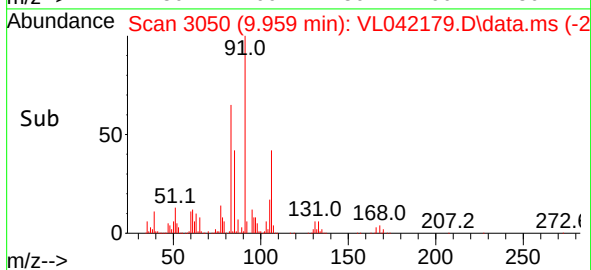
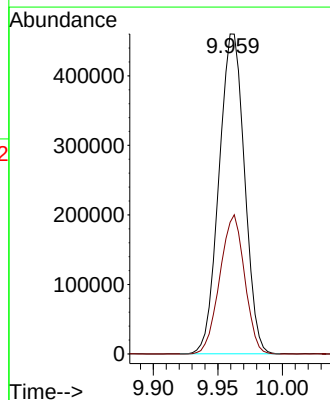
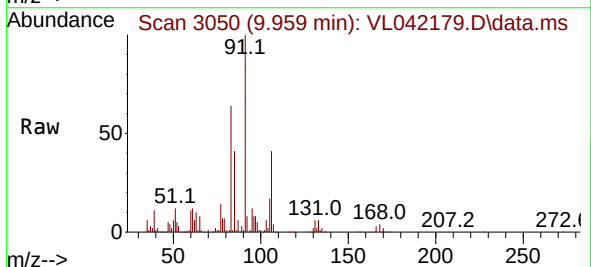
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

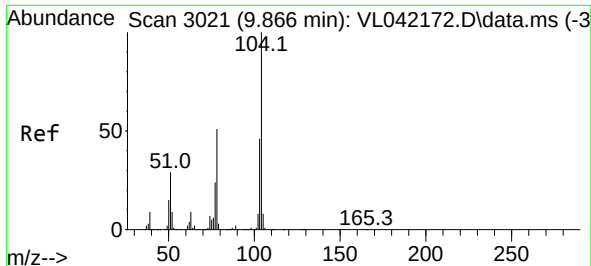
Tgt Ion: 91 Resp: 583773
Ion Ratio Lower Upper
91 100
106 97.9 36.4 54.6#



#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

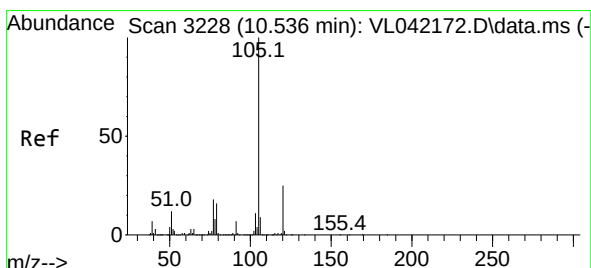
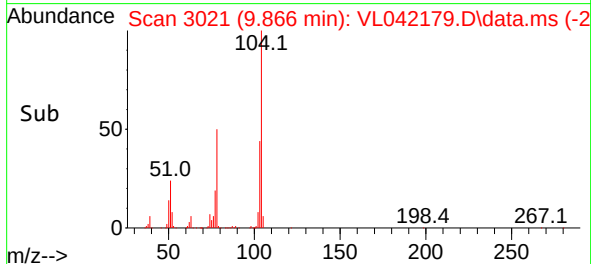
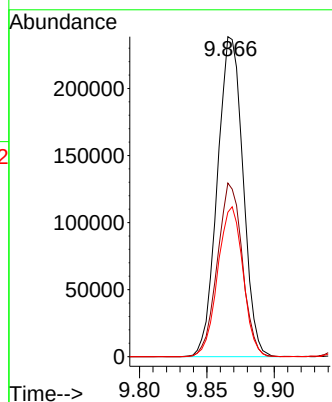
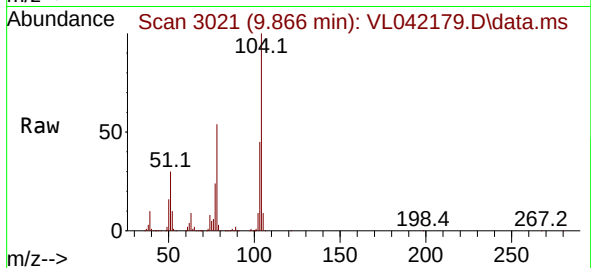




#61
Styrene
Concen: 9.488 ppbv
RT: 9.866 min Scan# 3021
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

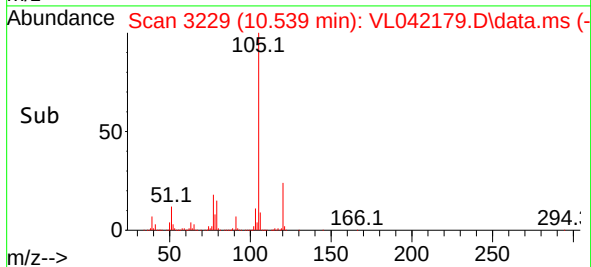
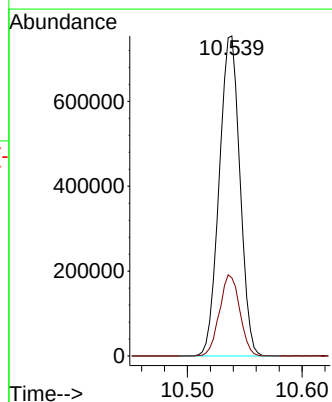
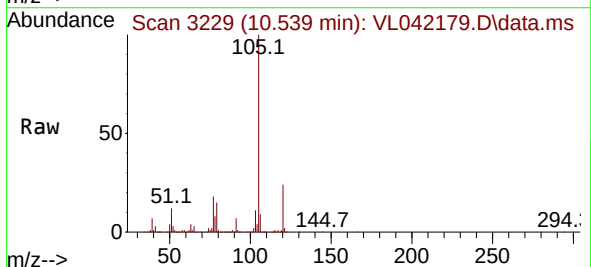
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

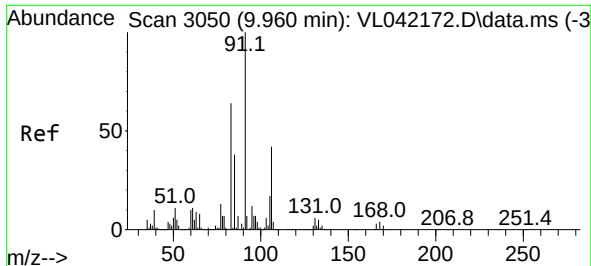
Tgt Ion:104 Resp: 315910
Ion Ratio Lower Upper
104 100
78 52.8 41.8 62.6
103 46.3 37.0 55.4



#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

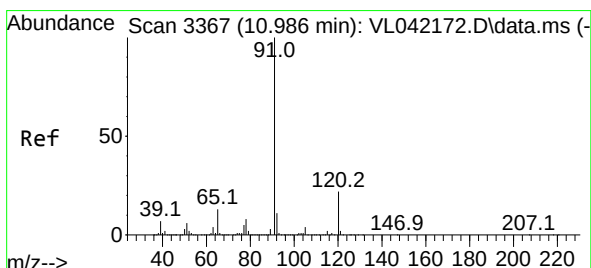
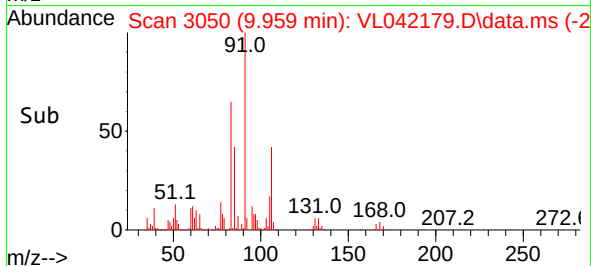
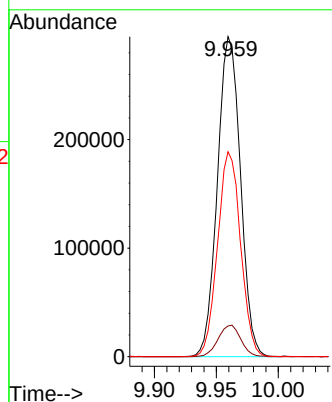
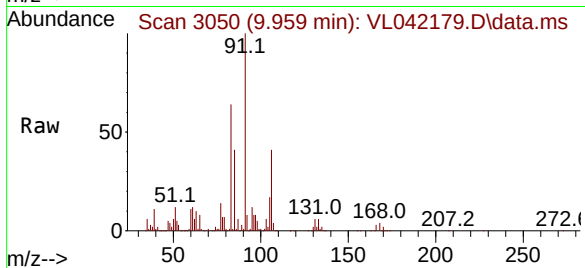
Tgt Ion: 83 Resp: 382635

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

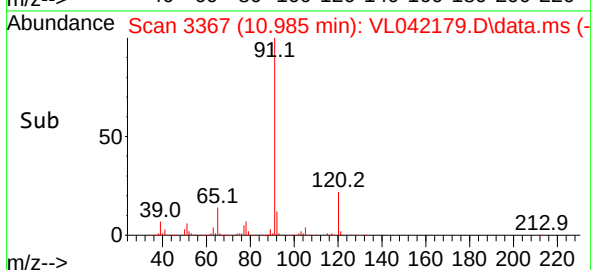
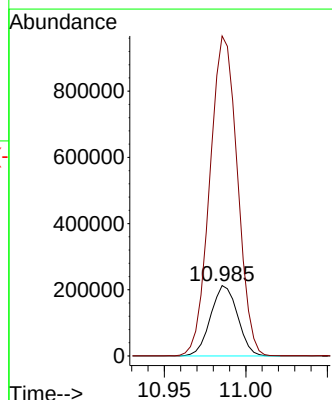
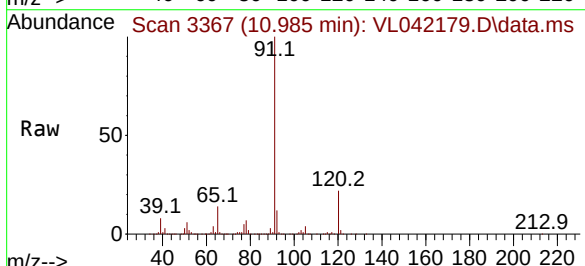
Acq: 27 Mar 2025 12:23

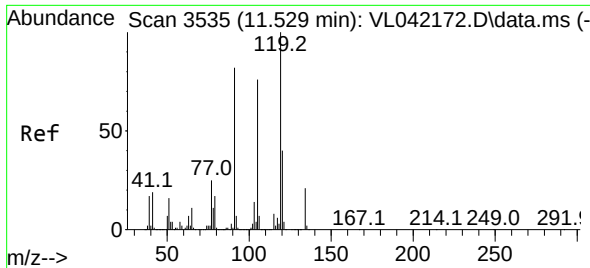
Tgt Ion: 120 Resp: 244547

Ion Ratio Lower Upper

120 100

91 465.9 376.9 565.3

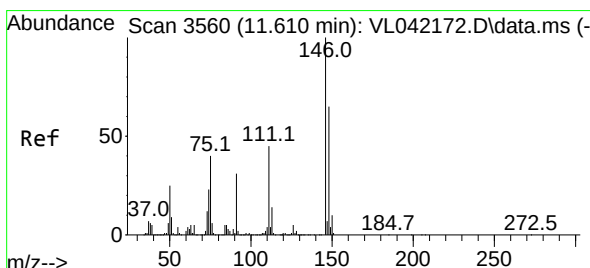
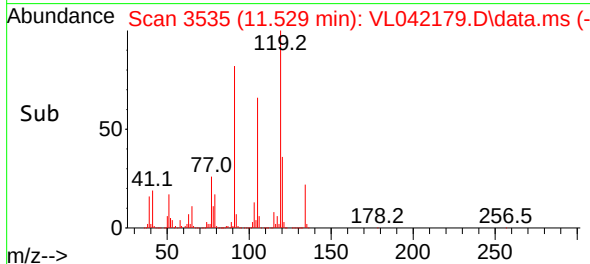
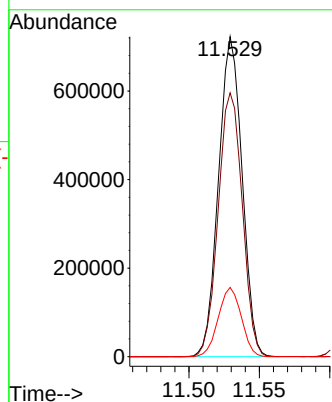
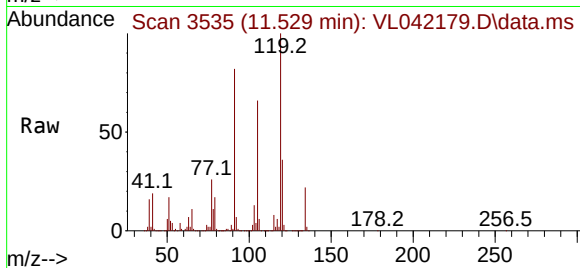




#65
tert-Butylbenzene
Concen: 9.065 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

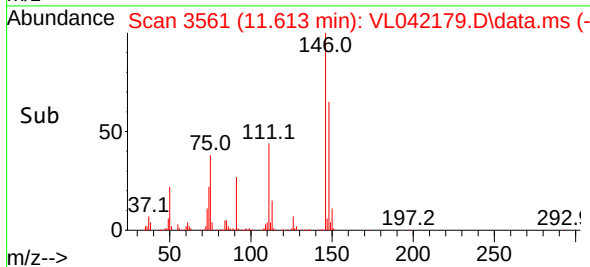
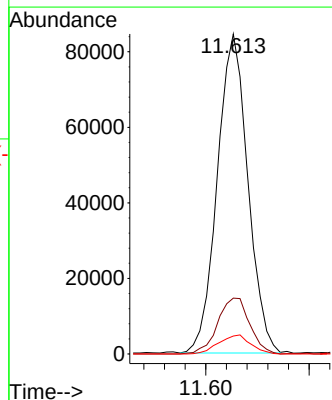
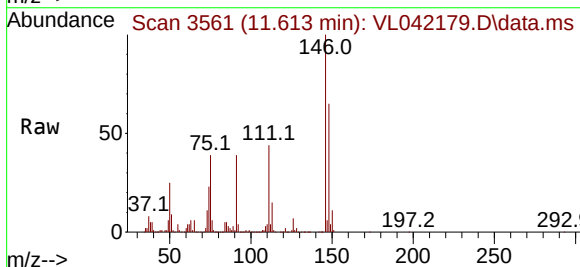
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

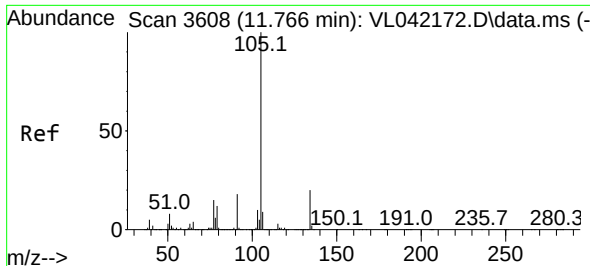
Tgt Ion:119 Resp: 843828
Ion Ratio Lower Upper
119 100
91 84.3 66.0 99.0
134 21.2 16.7 25.1



#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

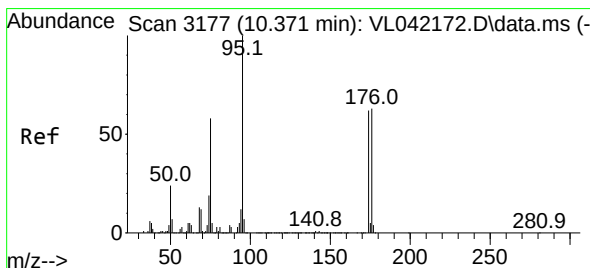
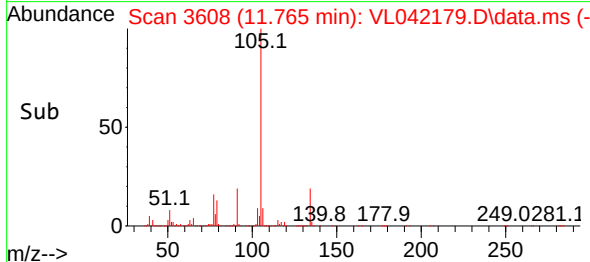
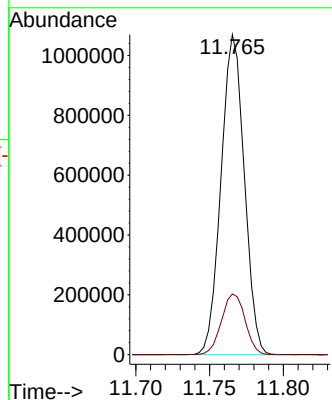
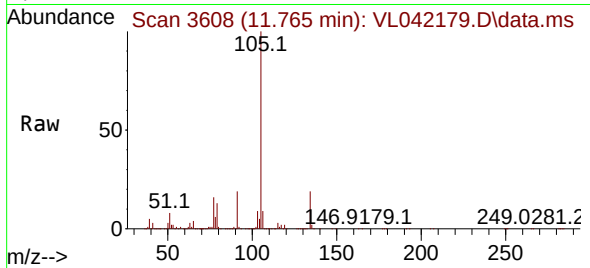




#67
 sec-Butylbenzene
 Concen: 9.063 ppbv
 RT: 11.765 min Scan# 3178
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

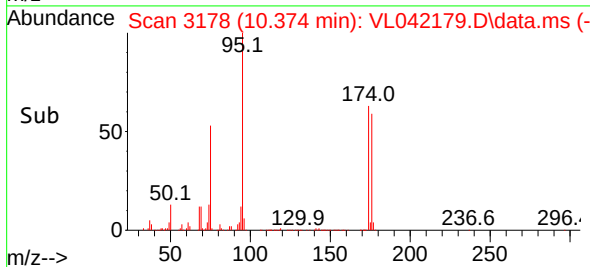
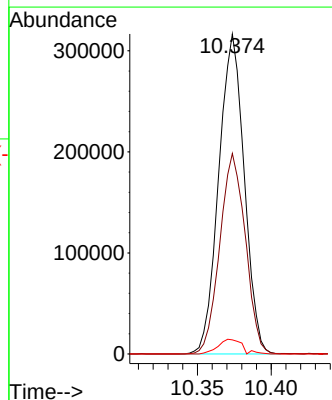
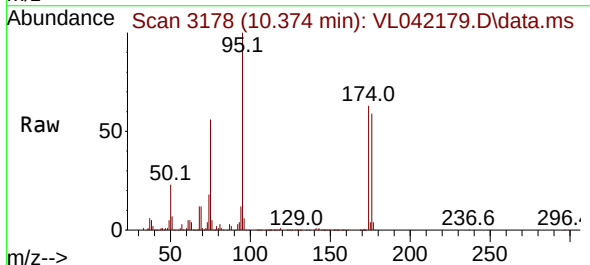
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725

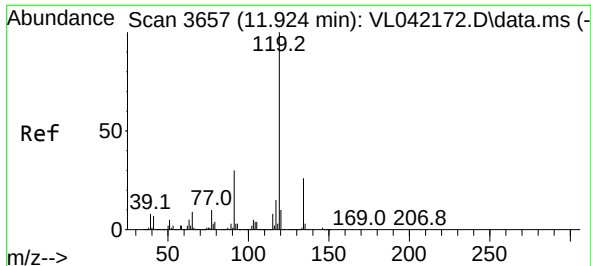
Tgt Ion:105 Resp: 1172636
 Ion Ratio Lower Upper
 105 100
 134 19.4 15.5 23.3



#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

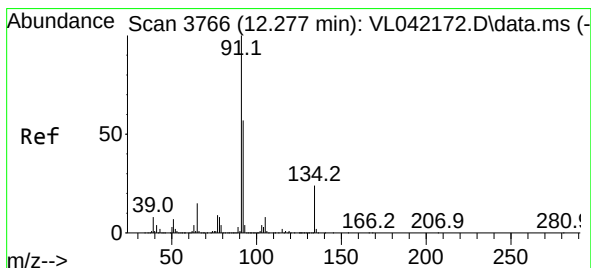
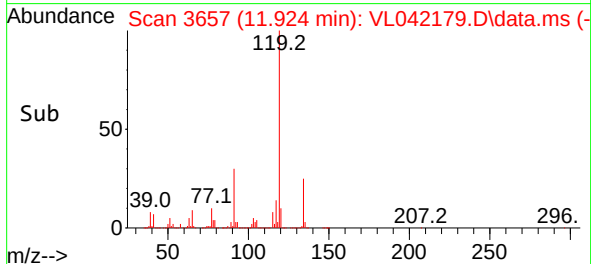
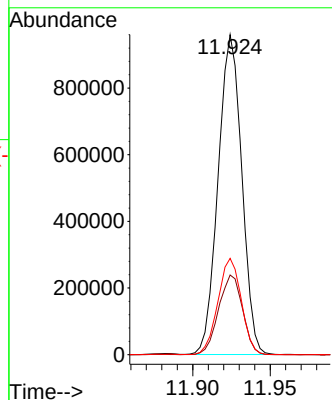
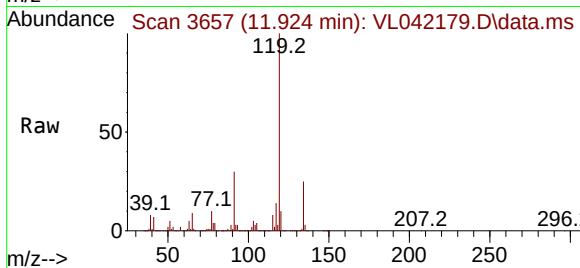




#69
 p-Isopropyltoluene
 Concen: 9.153 ppbv
 RT: 11.924 min Scan# 3657
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

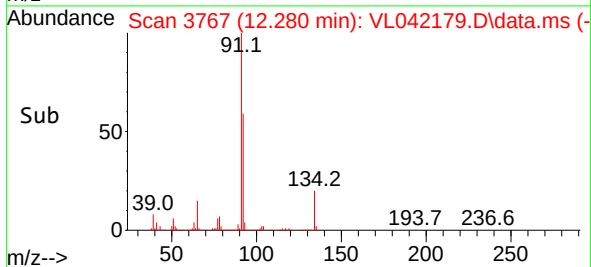
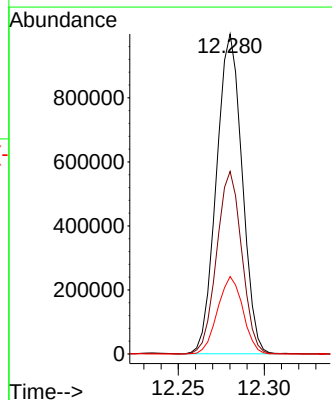
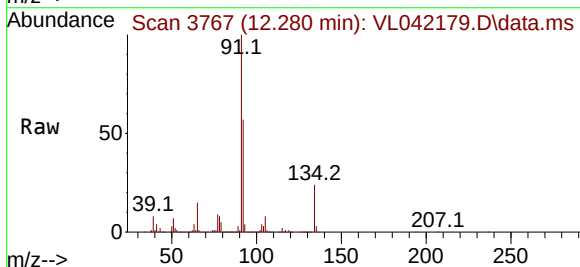
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725

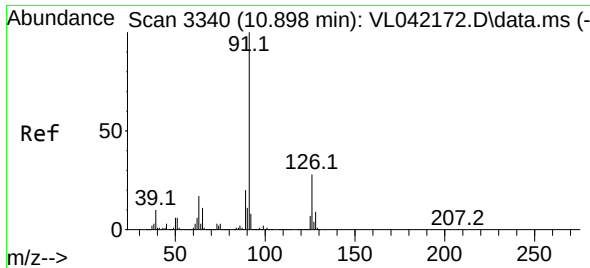
Tgt Ion:119 Resp: 1019694
 Ion Ratio Lower Upper
 119 100
 134 25.3 20.4 30.6
 91 29.9 23.7 35.5



#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

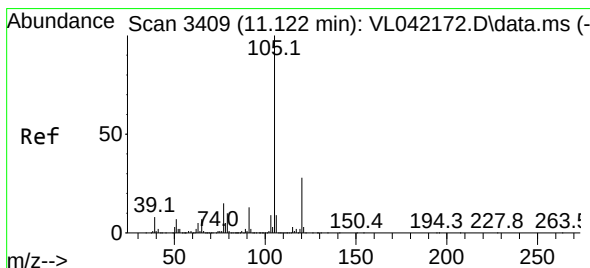
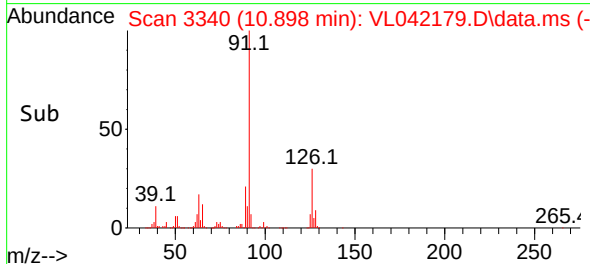
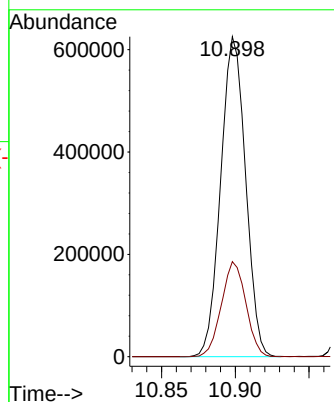
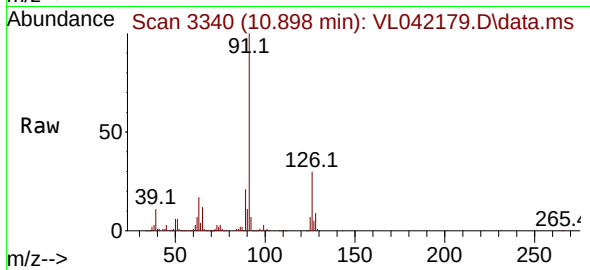




#71
2-Chlorotoluene
Concen: 9.382 ppbv
RT: 10.898 min Scan# 311
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

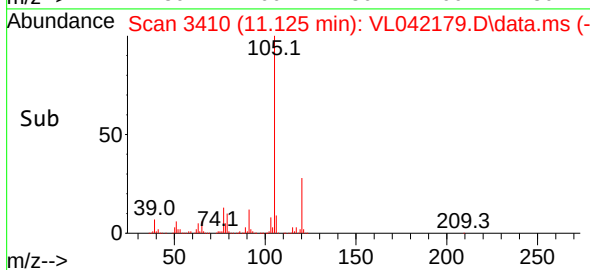
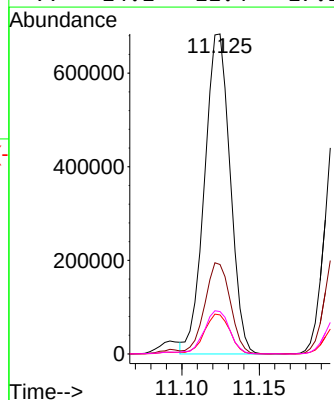
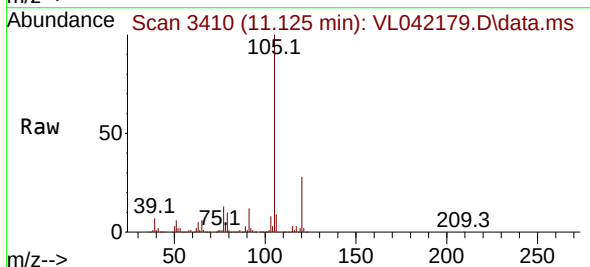
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

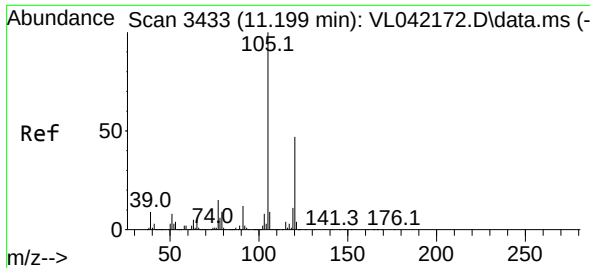
Tgt Ion: 91 Resp: 732874
Ion Ratio Lower Upper
91 100
126 29.2 11.6 46.4



#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

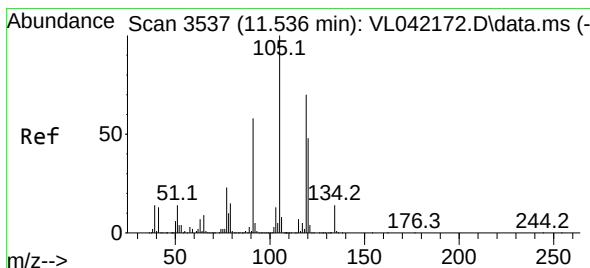
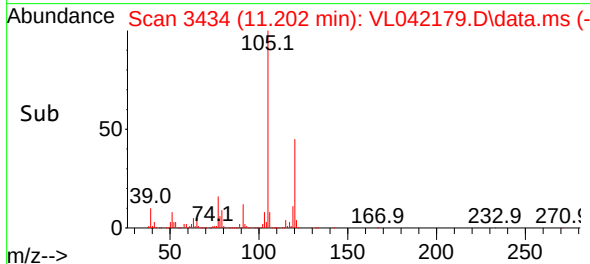
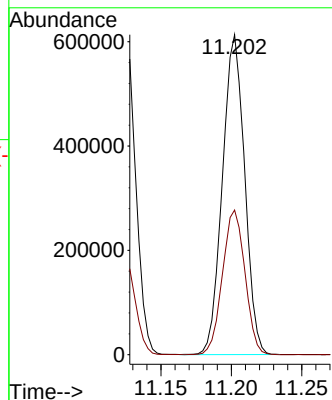
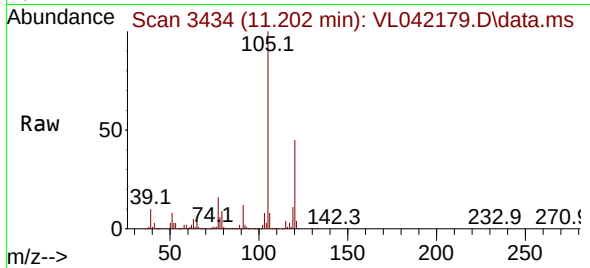




#73
 1,3,5-Trimethylbenzene
 Concen: 9.203 ppbv
 RT: 11.202 min Scan# 3434
 Delta R.T. 0.003 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

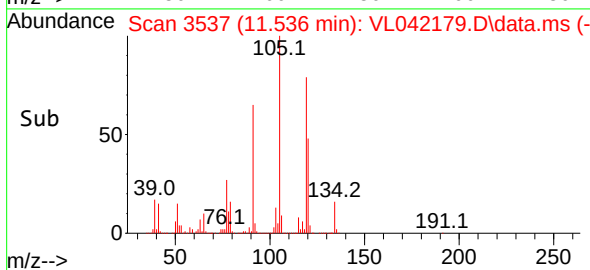
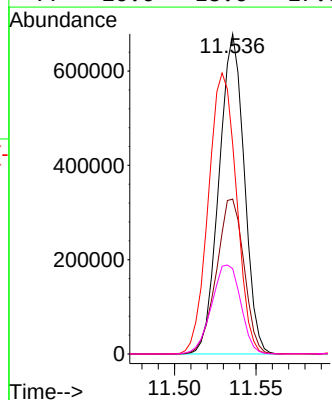
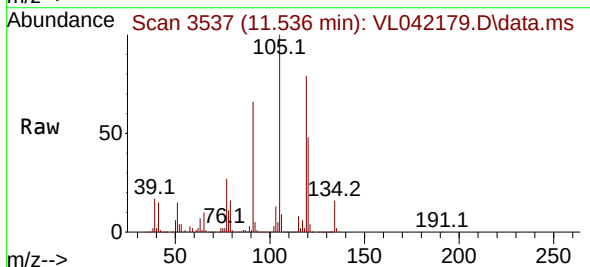
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725

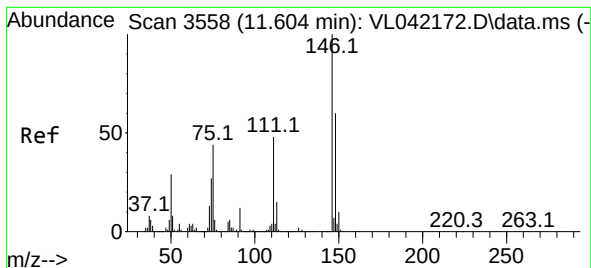
Tgt Ion:105 Resp: 673541
 Ion Ratio Lower Upper
 105 100
 120 45.2 37.4 56.0



#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_1

ClientSampleId :

ICVVL032725

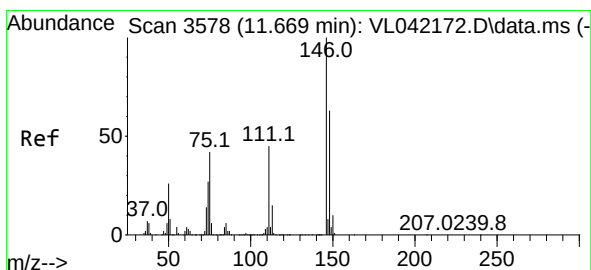
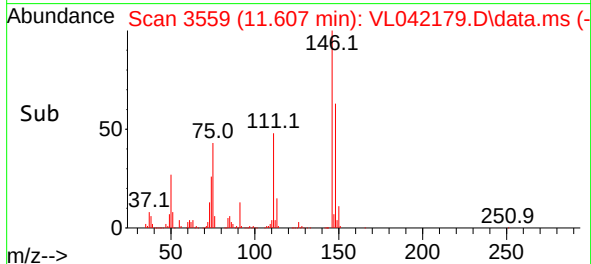
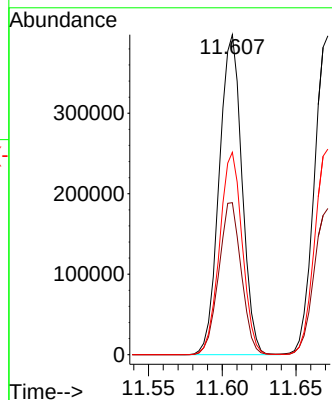
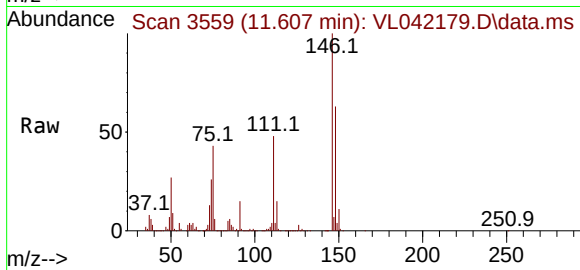
Tgt Ion:146 Resp: 426573

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

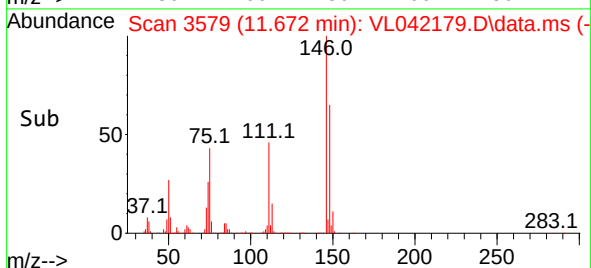
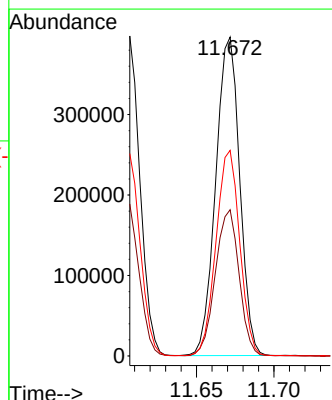
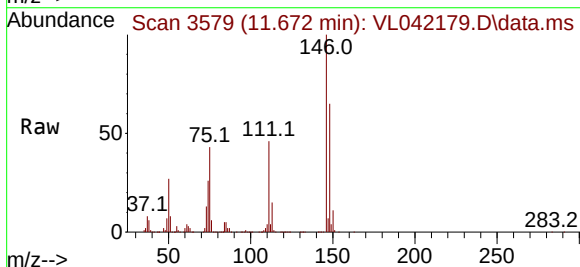
Tgt Ion:146 Resp: 426318

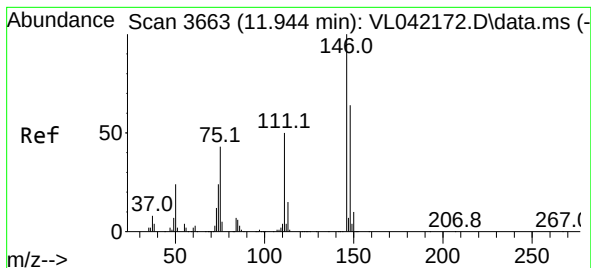
Ion Ratio Lower Upper

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# 3

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_1

ClientSampleId :

ICVVL032725

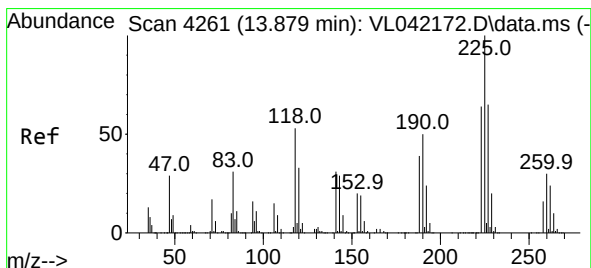
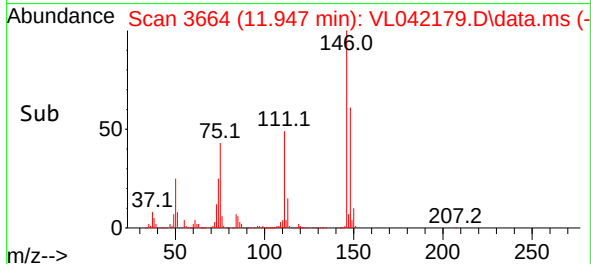
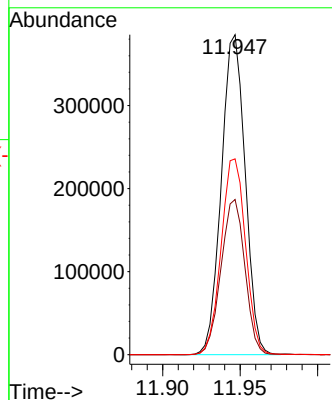
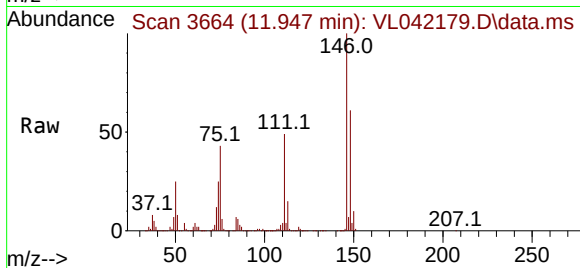
Tgt Ion:146 Resp: 412180

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

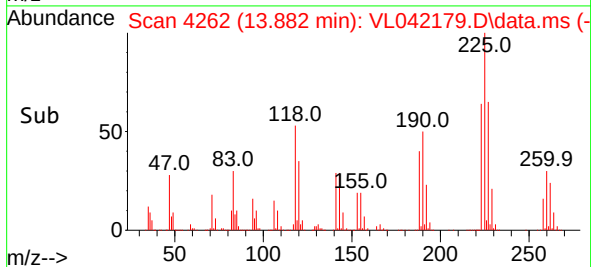
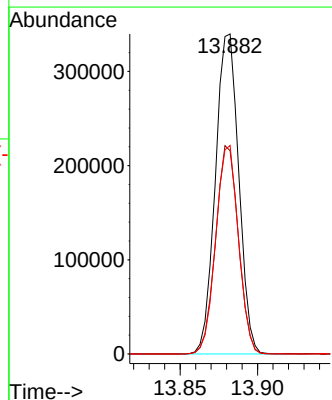
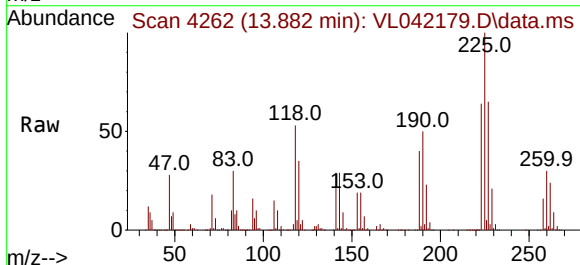
Tgt Ion:225 Resp: 356386

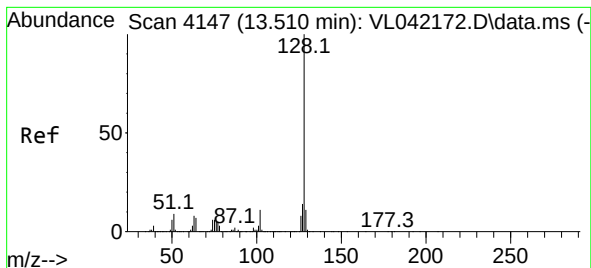
Ion Ratio Lower Upper

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

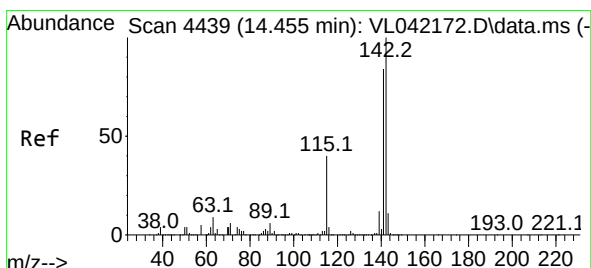
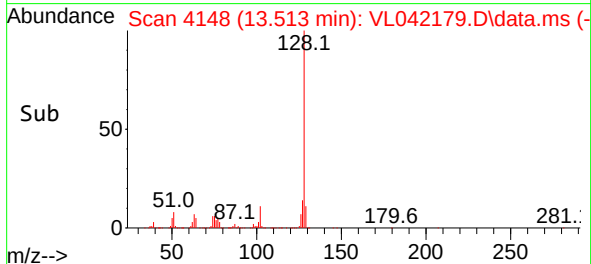
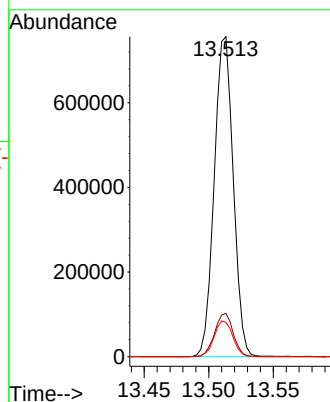
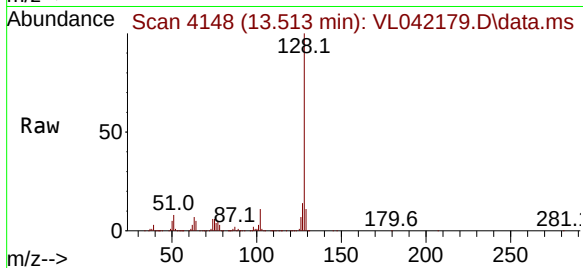
Tgt Ion:128 Resp: 773311

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

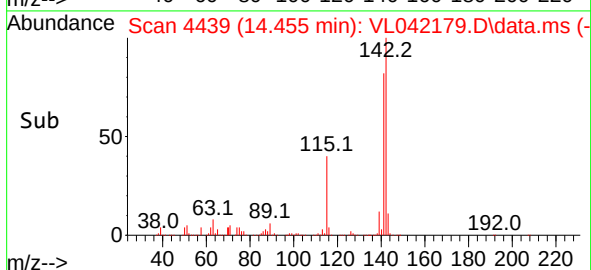
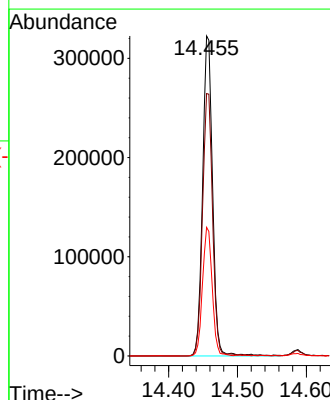
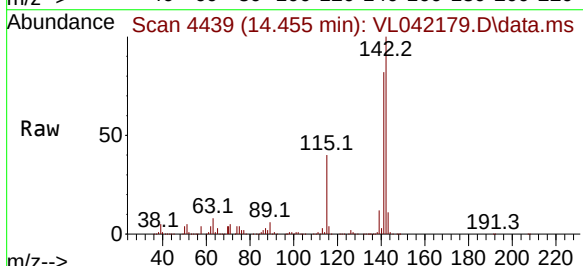
Tgt Ion:142 Resp: 323443

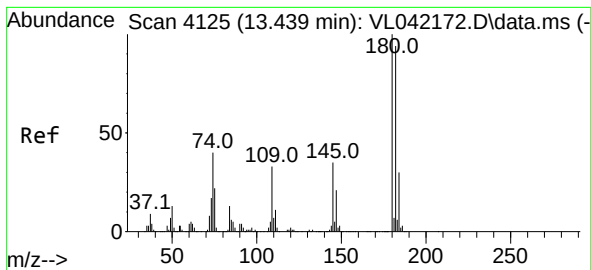
Ion Ratio Lower Upper

142 100

141 83.5 66.3 99.5

115 39.8 31.6 47.4



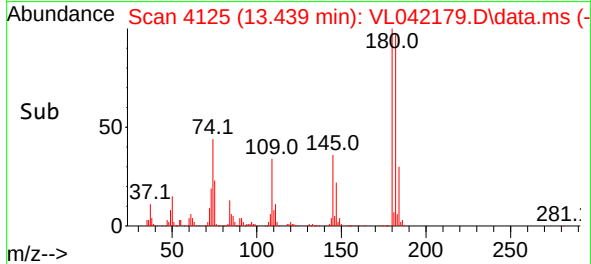
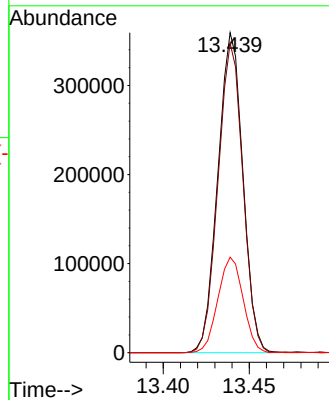
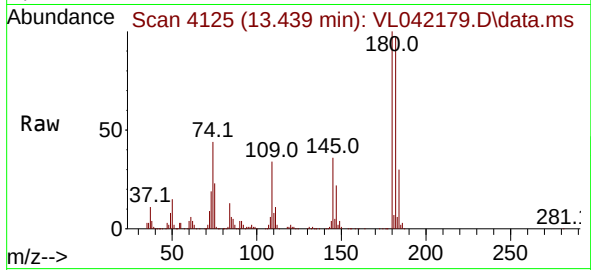


#81
 1,2,4-Trichlorobenzene
 Concen: 8.553 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

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\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

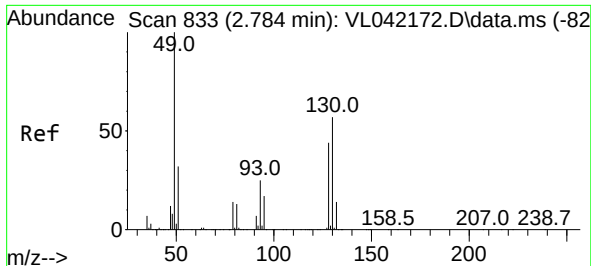
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 Data File : VL042253.D
 Acq On : 08 Apr 2025 08:39
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

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

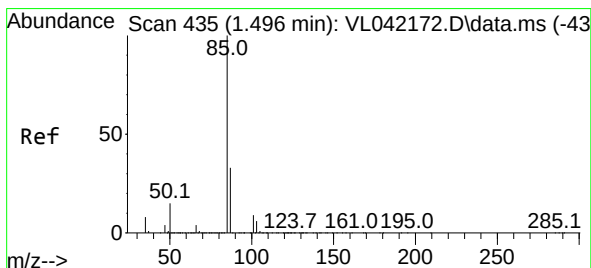
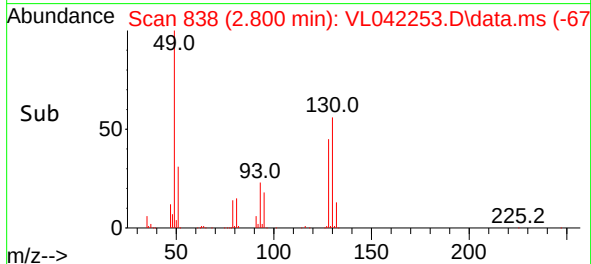
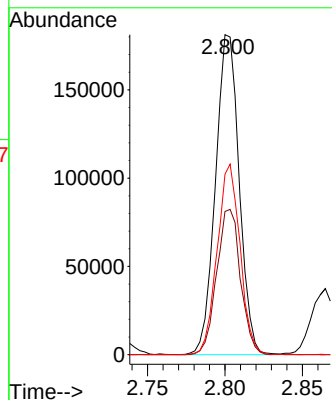
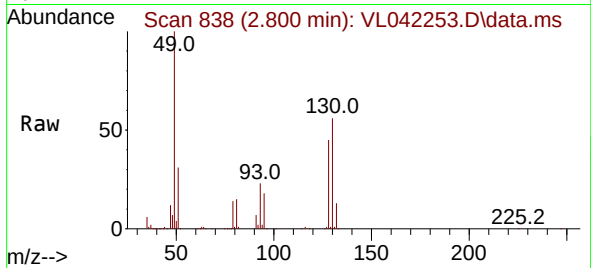
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#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

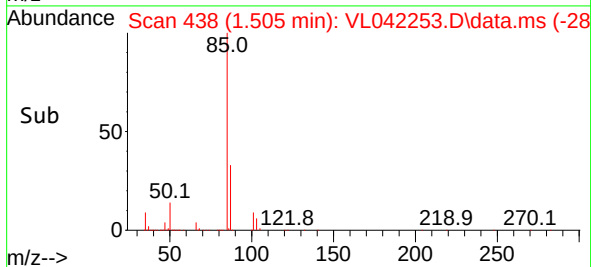
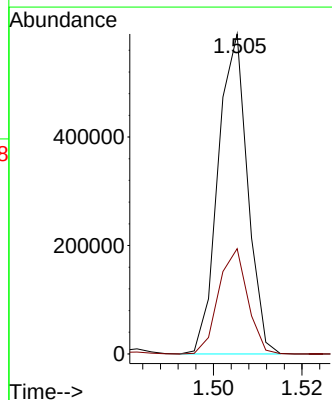
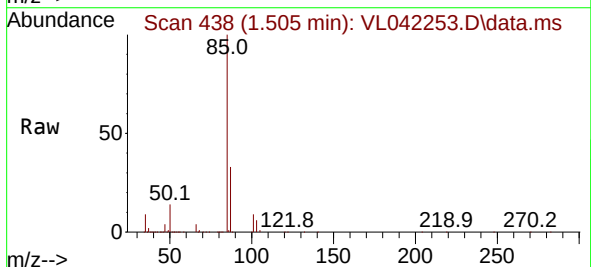
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

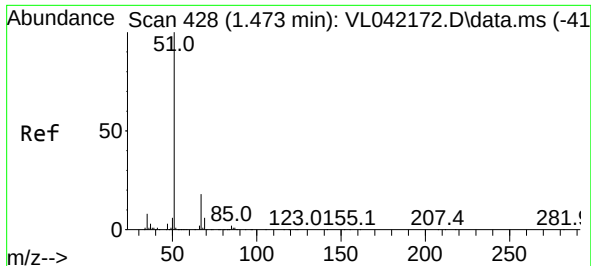
Tgt Ion: 49 Resp: 192748
Ion Ratio Lower Upper
49 100
128 45.7 22.9 68.5
130 57.6 28.8 86.4



#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

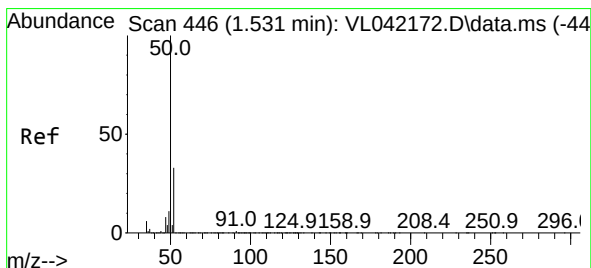
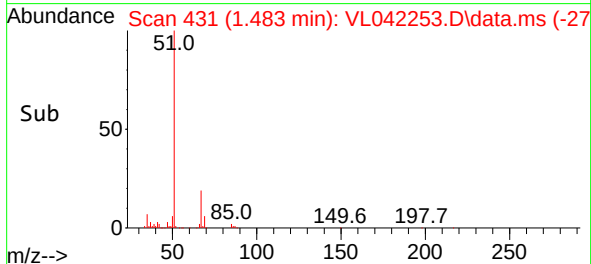
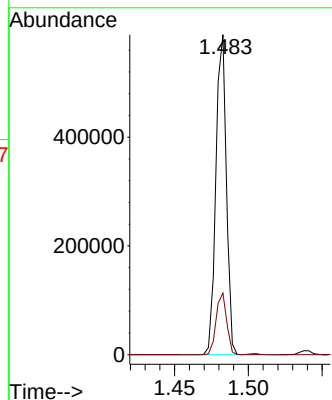
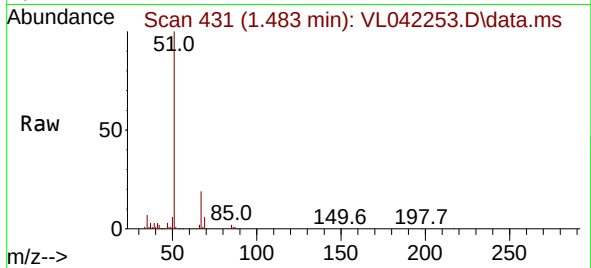




#3
Chlorodifluoromethane
Concen: 9.985 ppbv
RT: 1.483 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

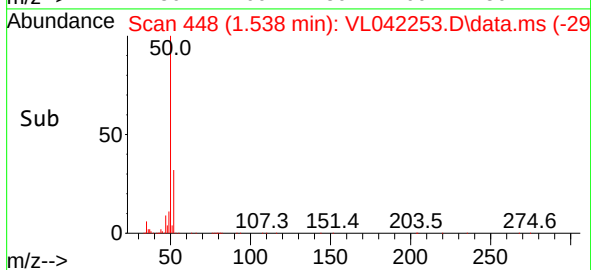
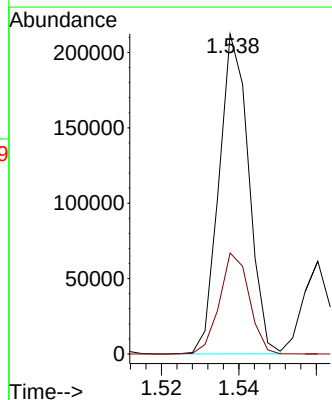
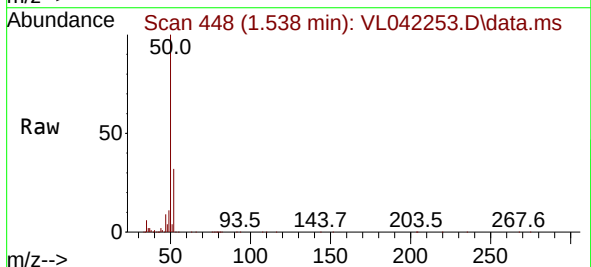
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

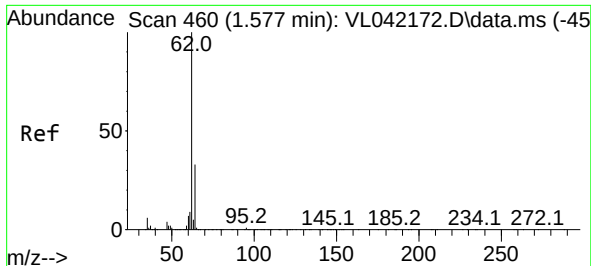
Tgt Ion: 51 Resp: 290289
Ion Ratio Lower Upper
51 100
67 19.4 15.0 22.6



#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

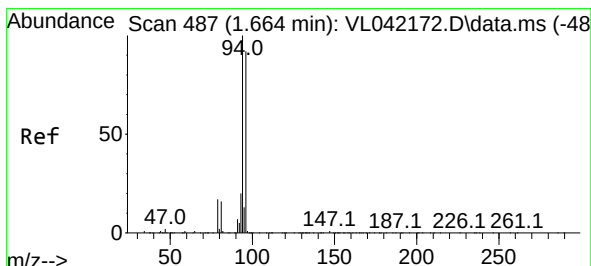
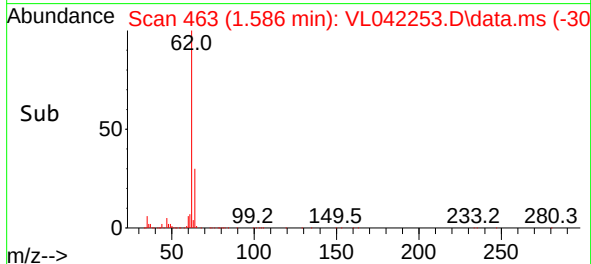
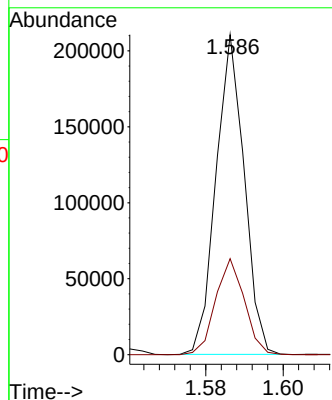
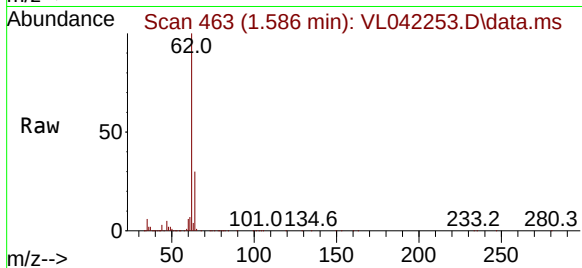




#5
 Vinyl Chloride
 Concen: 8.637 ppbv
 RT: 1.586 min Scan# 4
 Delta R.T. 0.010 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39

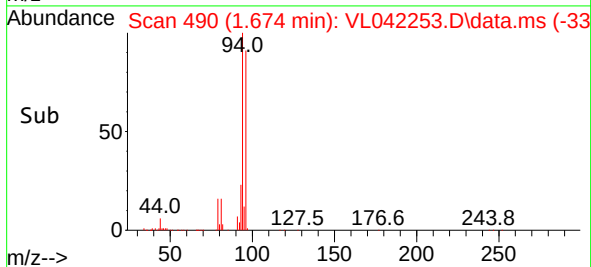
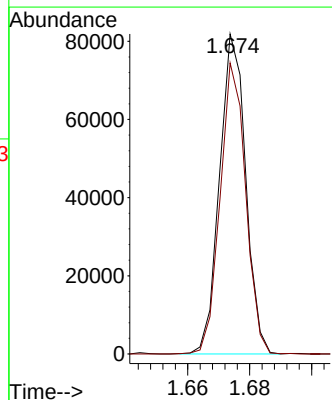
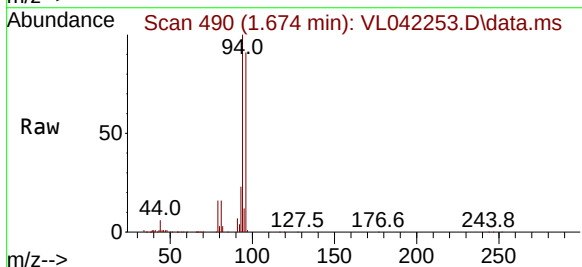
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

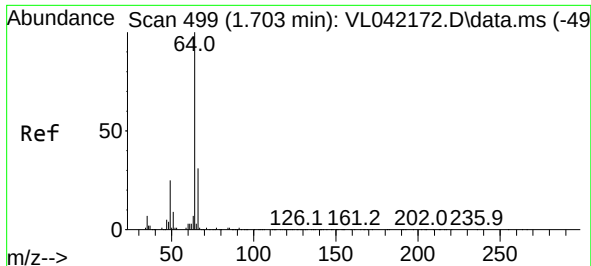
Tgt Ion: 62 Resp: 106450
 Ion Ratio Lower Upper
 62 100
 64 30.0 26.6 40.0



#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

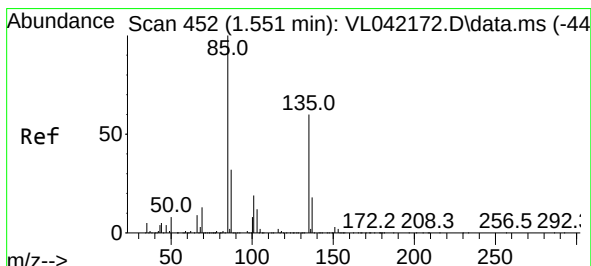
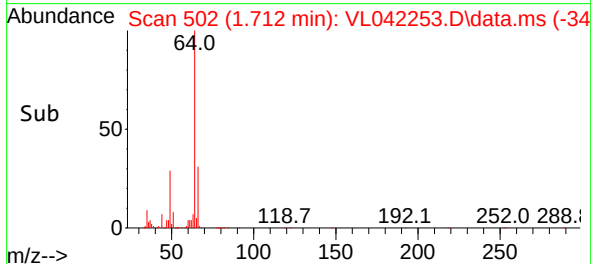
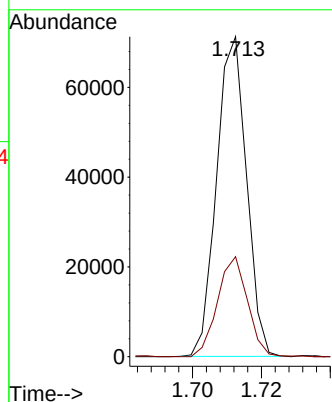
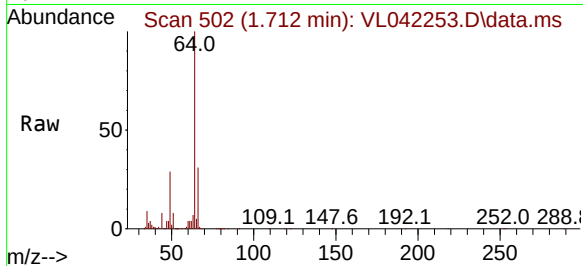




#7
Chloroethane
Concen: 9.215 ppbv
RT: 1.712 min Scan# 50
Delta R.T. 0.010 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

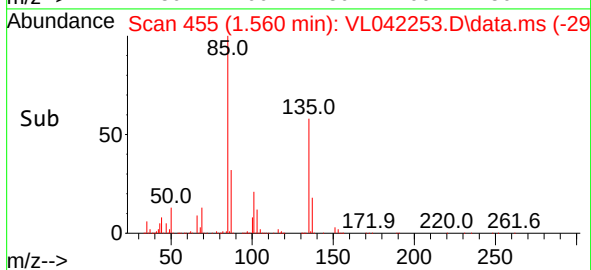
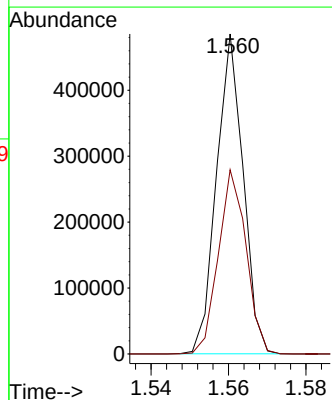
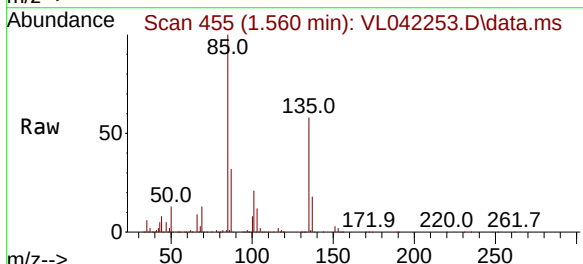
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

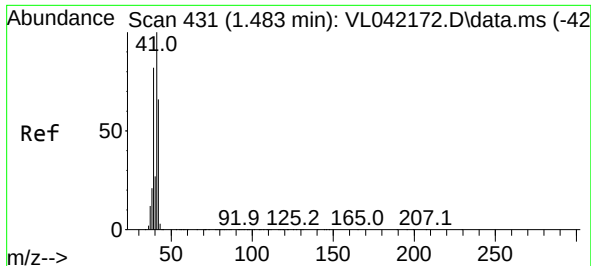
Tgt Ion: 64 Resp: 43021
Ion Ratio Lower Upper
64 100
66 31.2 25.2 37.8



#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_L

ClientSampleId :

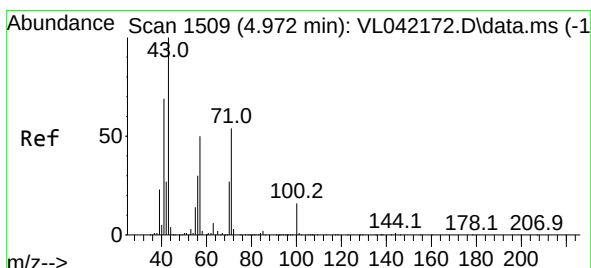
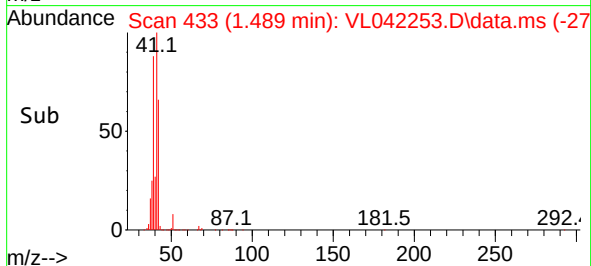
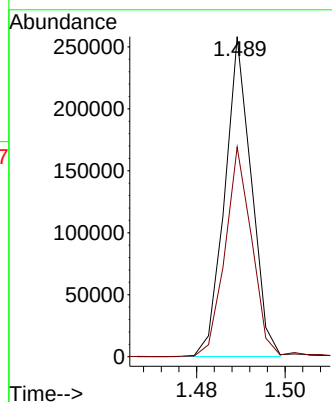
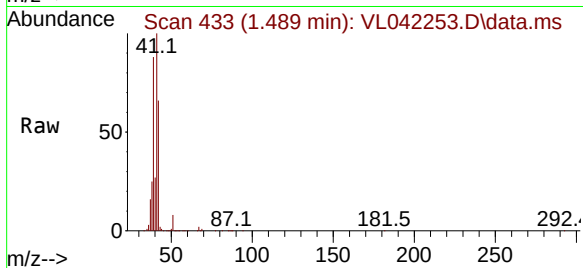
VSTDCCC010

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

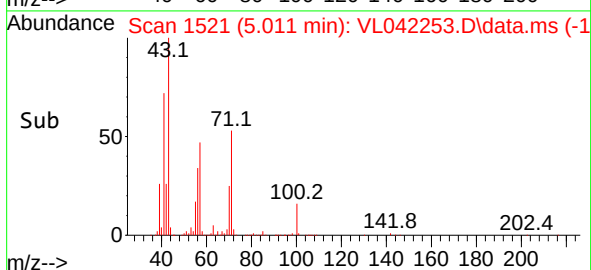
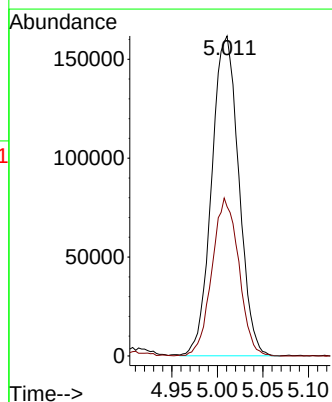
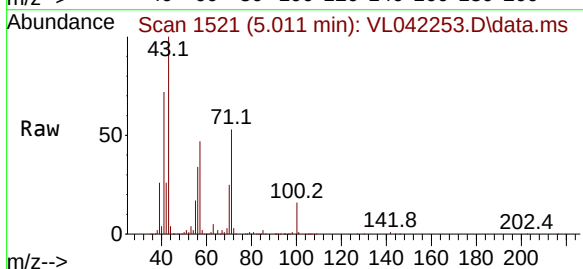
Acq: 08 Apr 2025 08:39

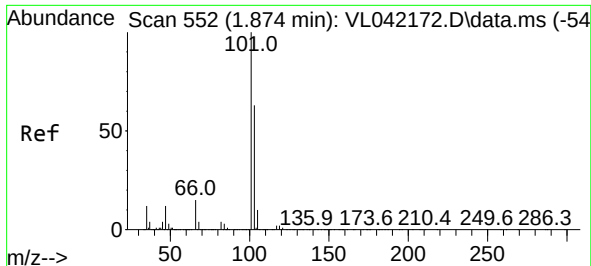
Tgt Ion: 43 Resp: 334651

Ion Ratio Lower Upper

43 100

57 48.8 39.4 59.2

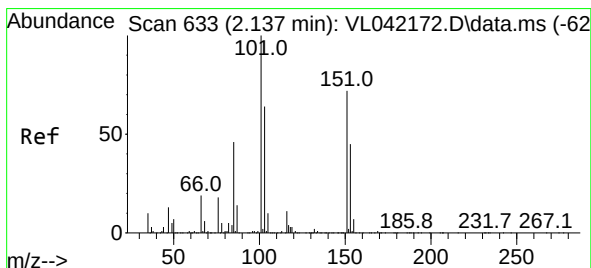
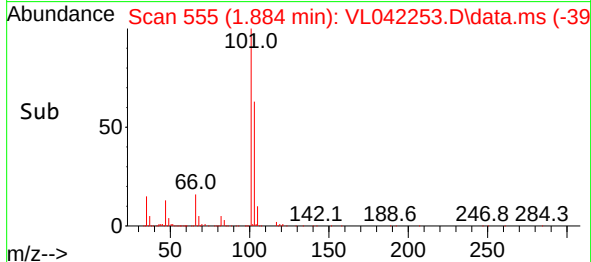
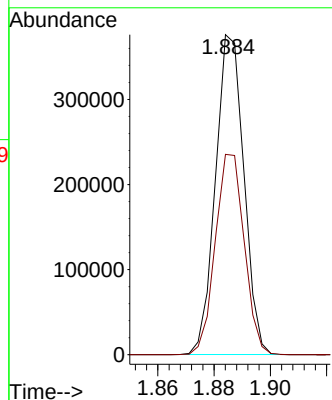
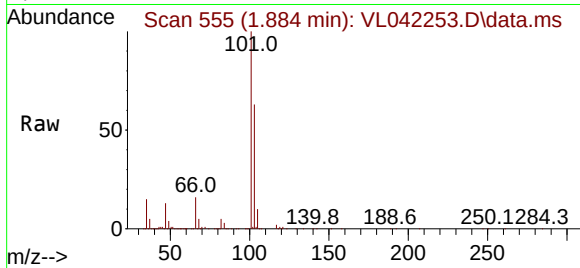




#11
Trichlorofluoromethane
Concen: 9.518 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.010 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

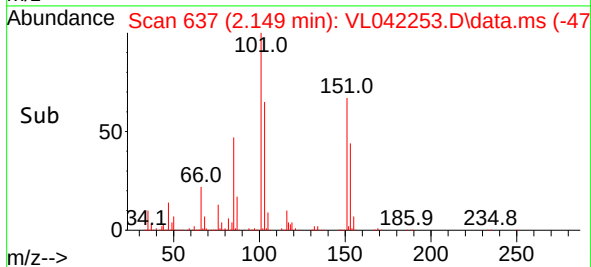
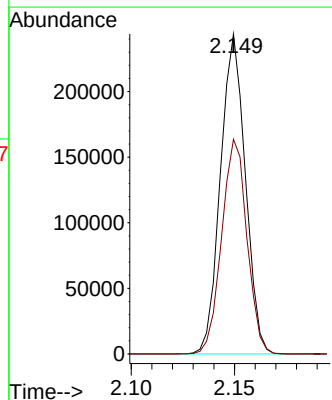
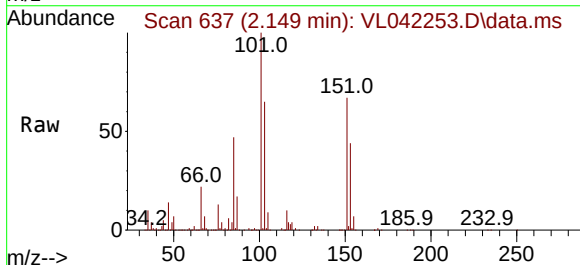
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

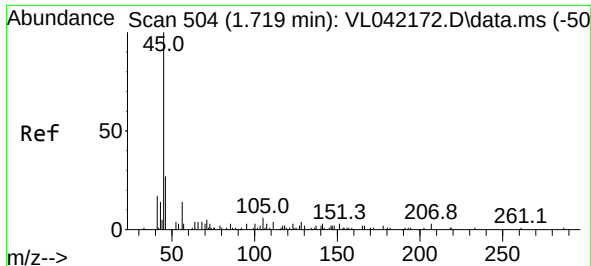
Tgt Ion:101 Resp: 263560
Ion Ratio Lower Upper
101 100
103 62.6 50.2 75.2



#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

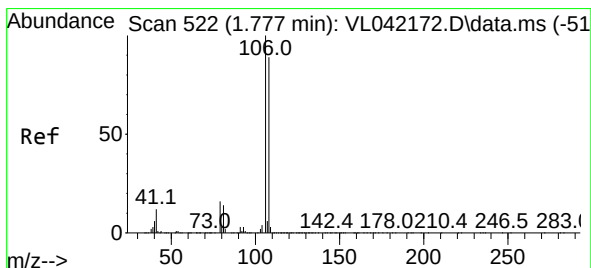
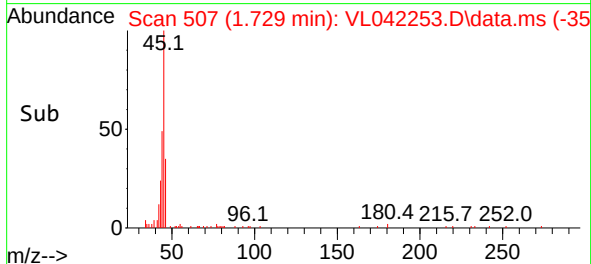
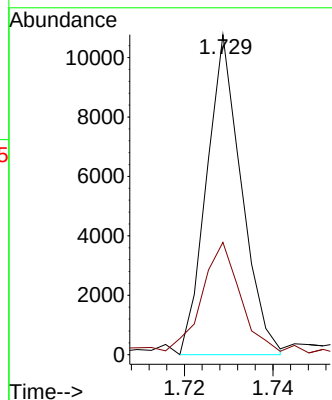
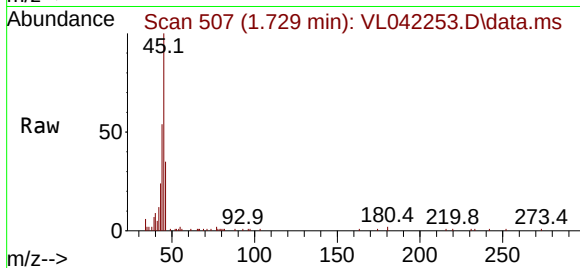




#13
Ethanol
Concen: 4.686 ppbv
RT: 1.729 min Scan# 504
Delta R.T. 0.010 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

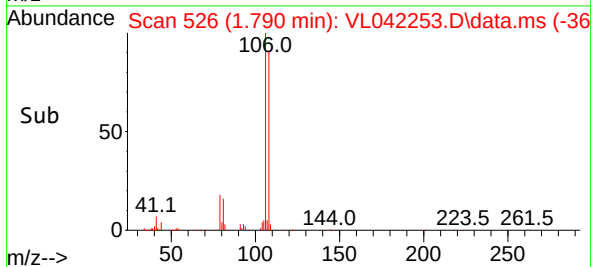
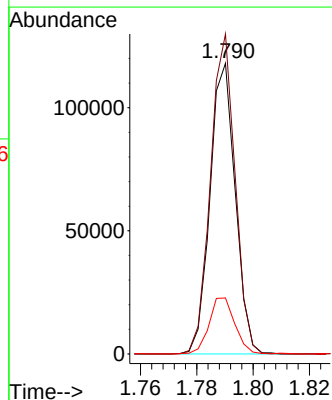
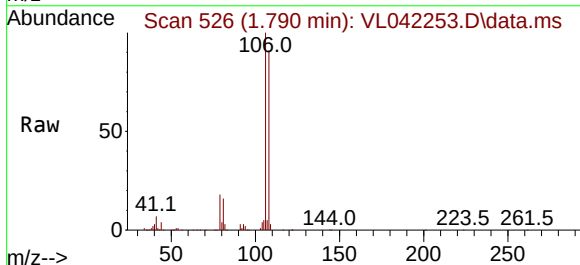
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

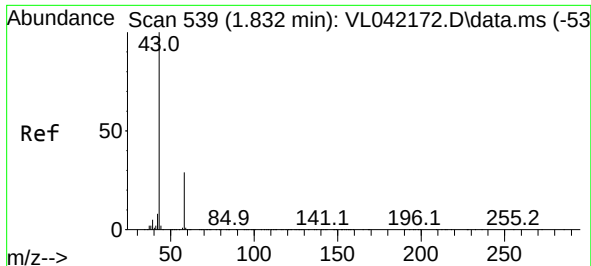
Tgt Ion: 45 Resp: 5903
Ion Ratio Lower Upper
45 100
46 45.1 20.2 80.8



#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

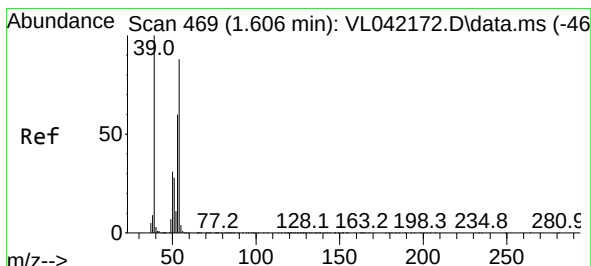
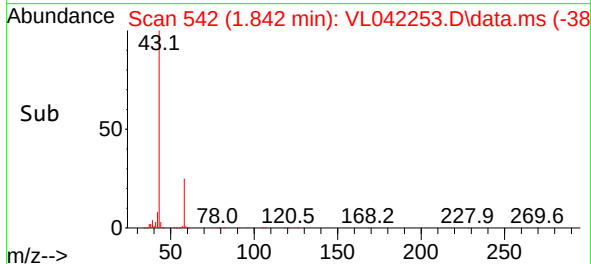
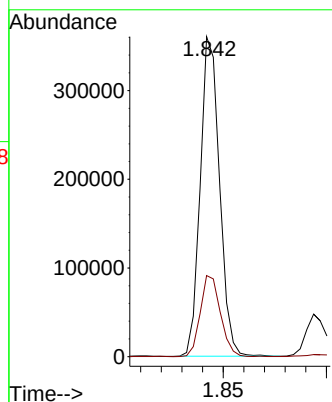
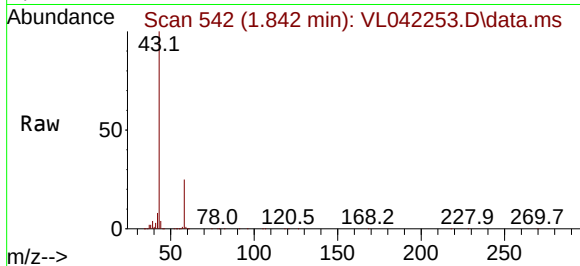




#15
Acetone
Concen: 8.677 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.010 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

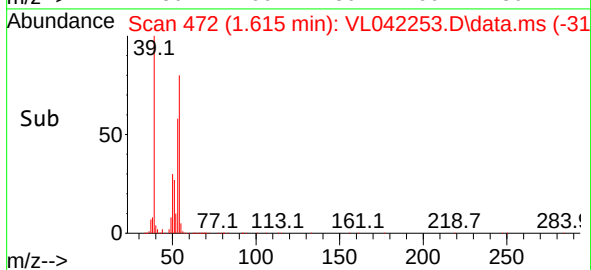
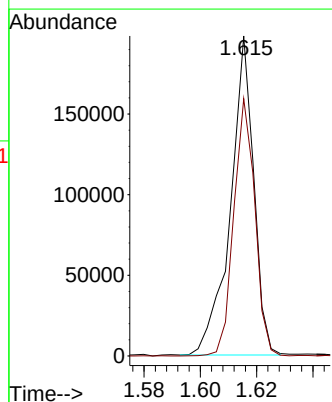
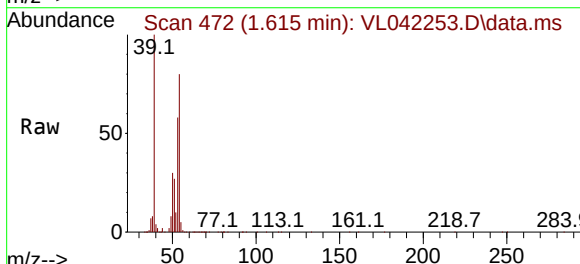
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

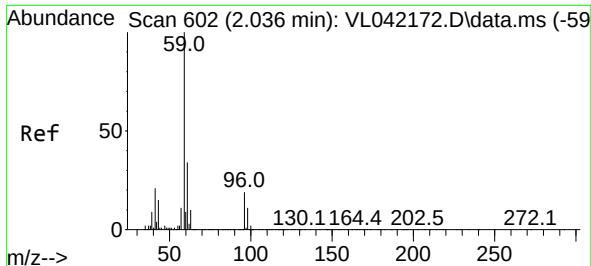
Tgt Ion: 43 Resp: 233895
Ion Ratio Lower Upper
43 100
58 26.7 23.2 34.8



#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 :

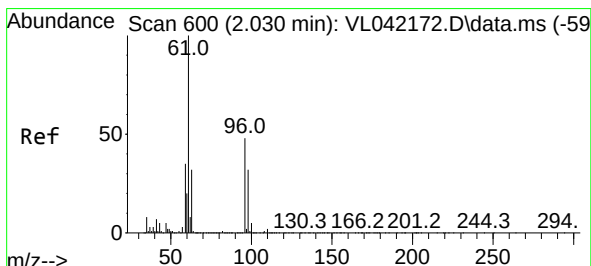
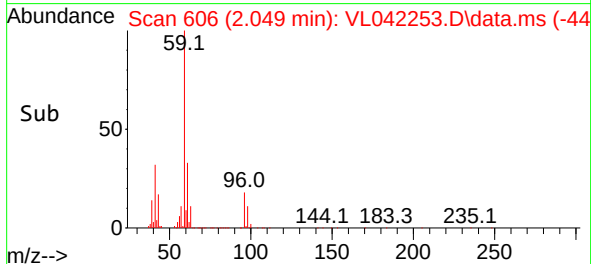
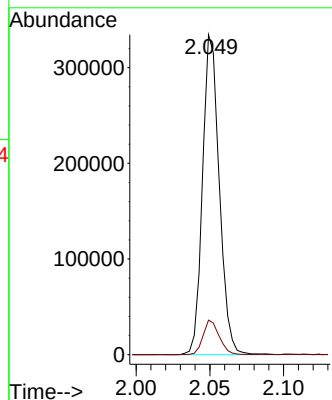
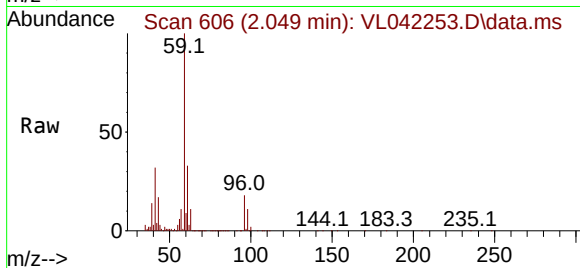
VSTDCCC010

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

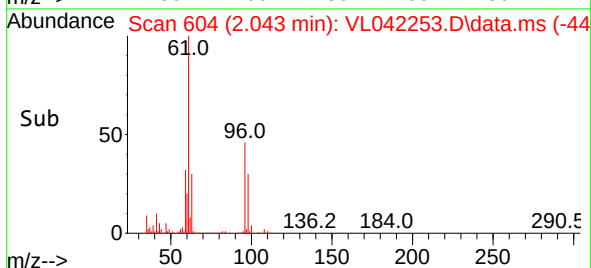
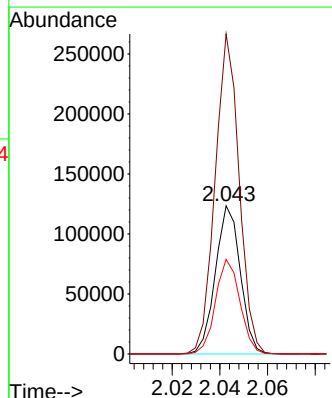
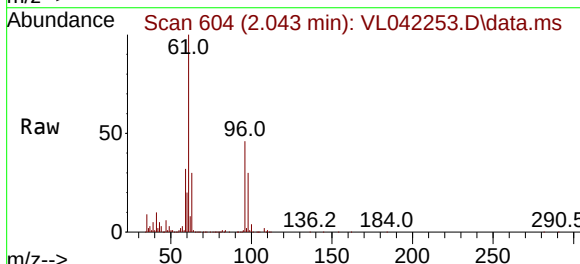
Tgt Ion: 96 Resp: 89526

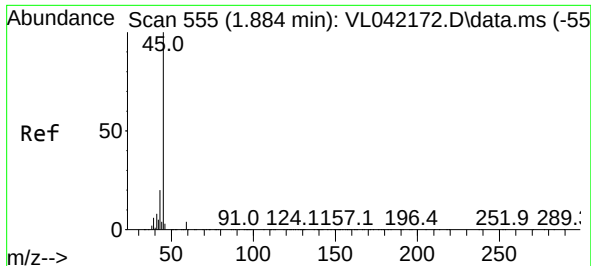
Ion Ratio Lower Upper

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 :

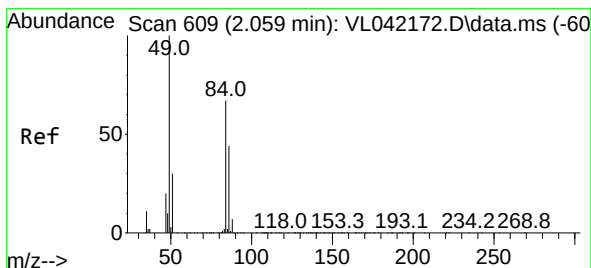
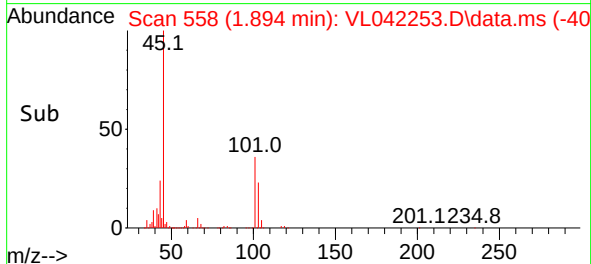
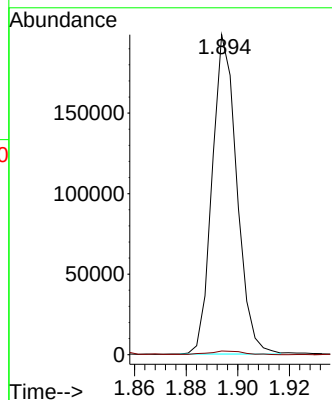
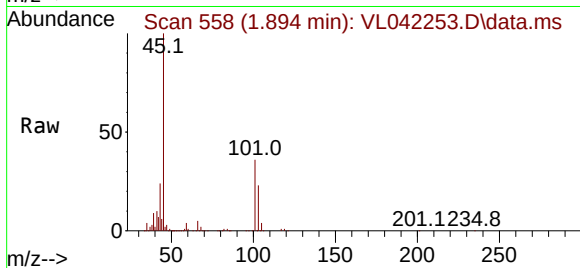
VSTDCCC010

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

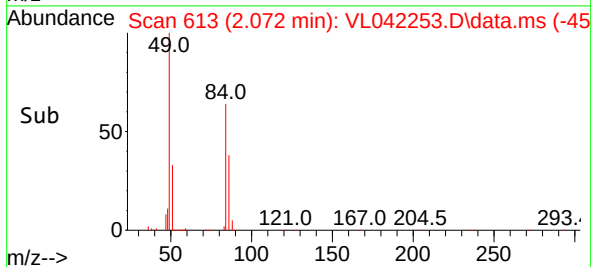
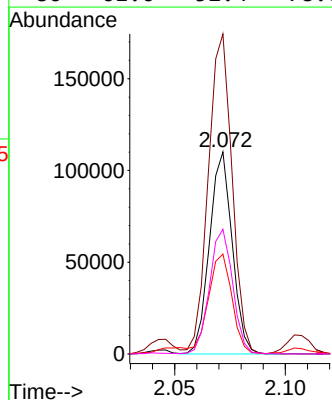
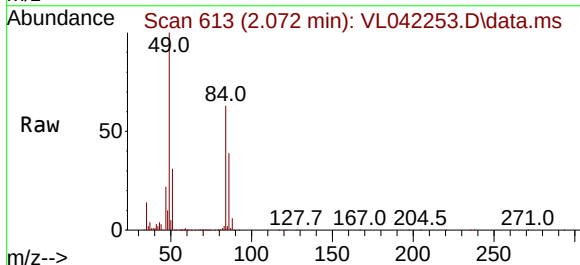
Ion Ratio Lower Upper

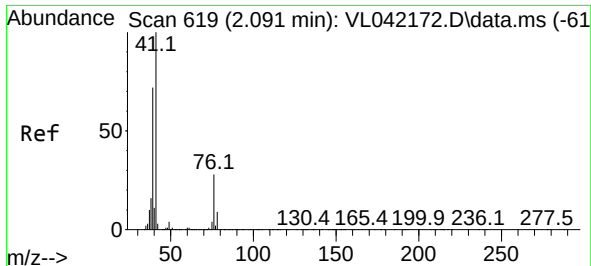
84 100

49 156.4 120.2 180.4

51 48.5 37.4 56.0

86 61.6 52.4 78.6

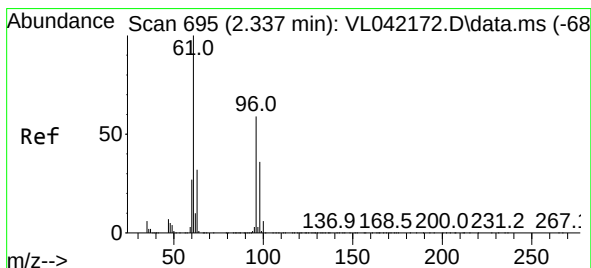
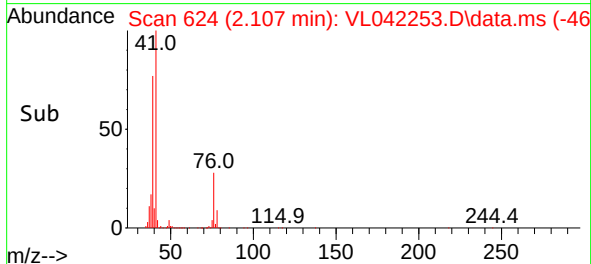
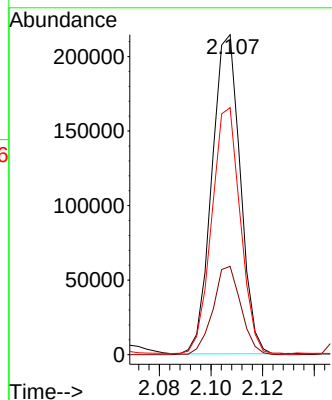
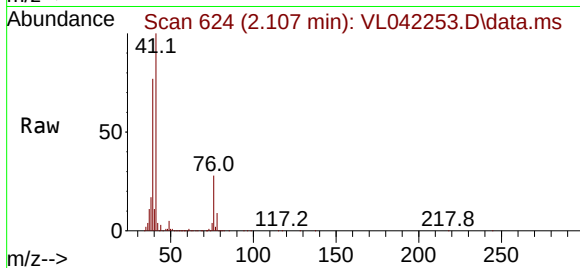




#21
 Allyl Chloride
 Concen: 8.590 ppbv
 RT: 2.107 min Scan# 61
 Delta R.T. 0.016 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39

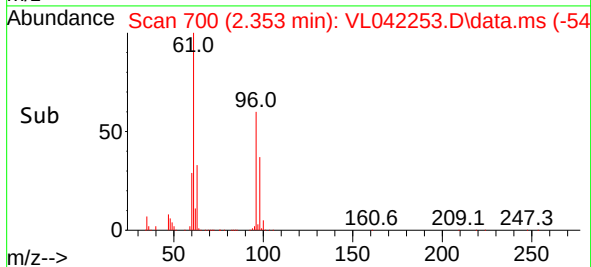
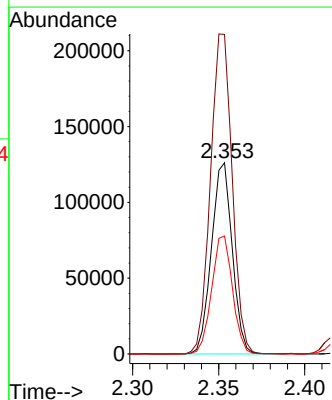
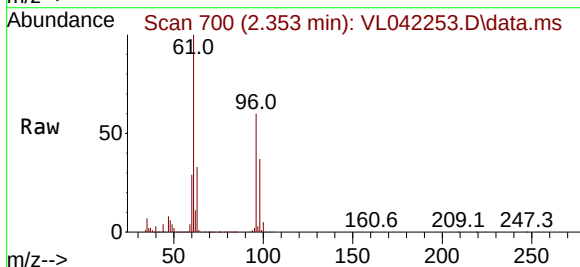
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

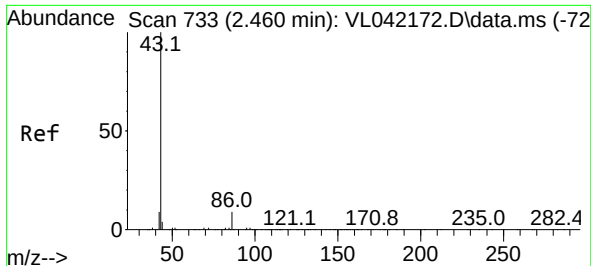
Tgt Ion: 41 Resp: 163305
 Ion Ratio Lower Upper
 41 100
 76 27.3 24.1 36.1
 39 77.5 61.1 91.7



#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

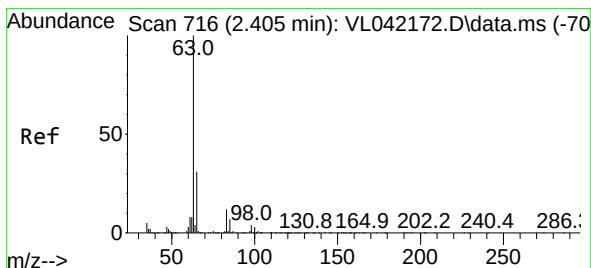
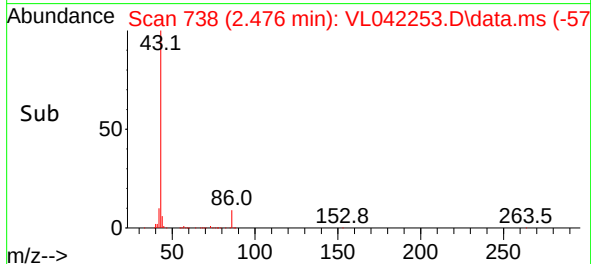
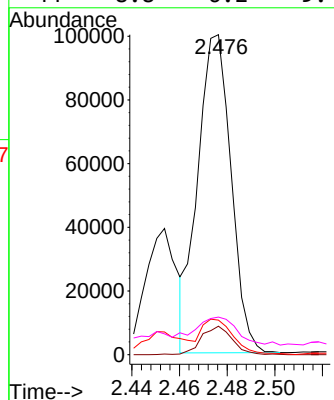
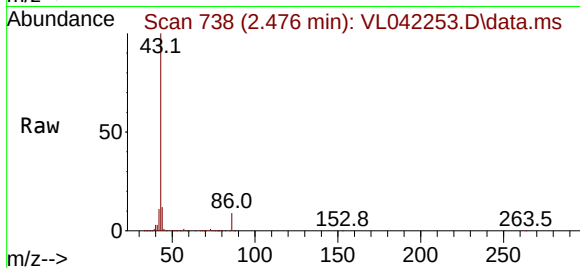




#23
 Vinyl Acetate
 Concen: 8.313 ppbv
 RT: 2.476 min Scan# 71
 Delta R.T. 0.016 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39

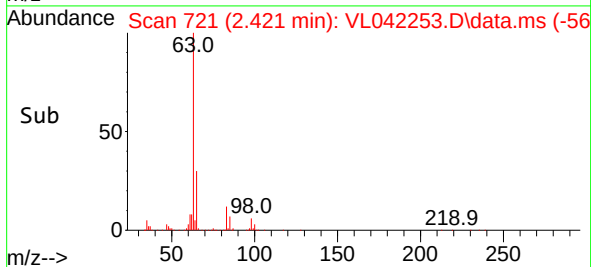
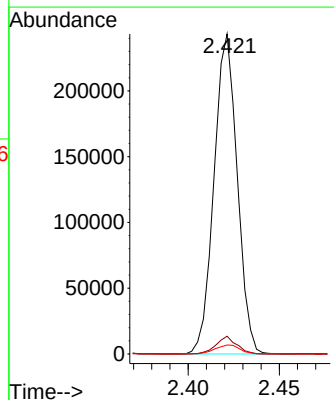
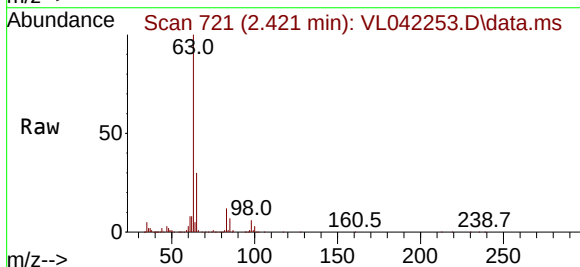
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

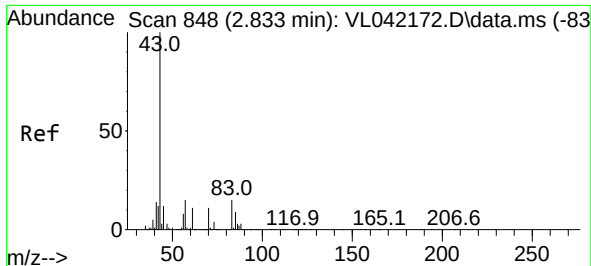
Tgt Ion: 43 Resp: 96990
 Ion Ratio Lower Upper
 43 100
 86 8.9 5.5 8.3#
 42 10.5 8.6 13.0
 44 8.8 6.2 9.4



#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

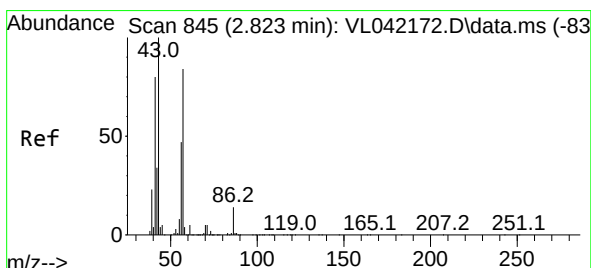
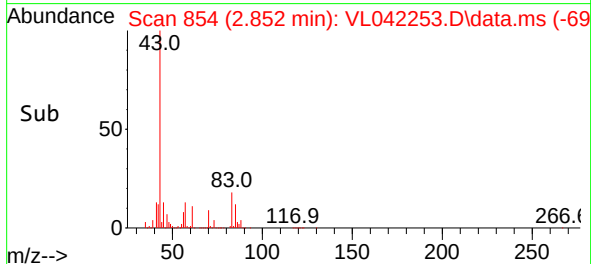
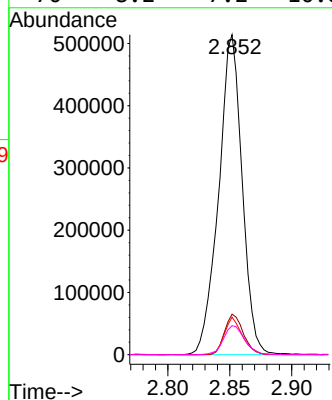
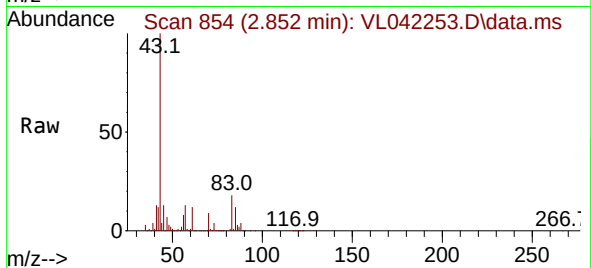
Ion Ratio Lower Upper

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

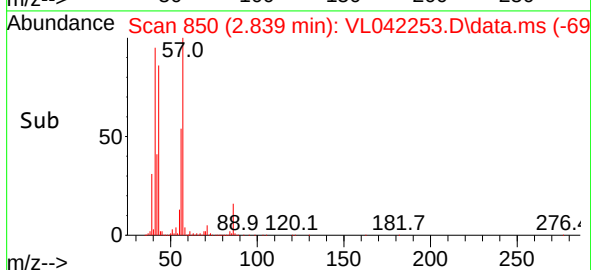
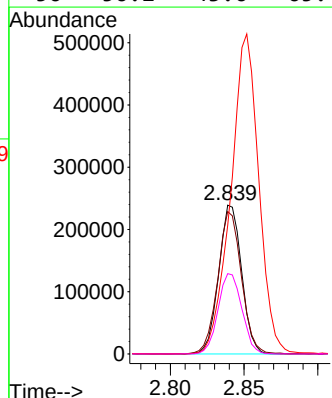
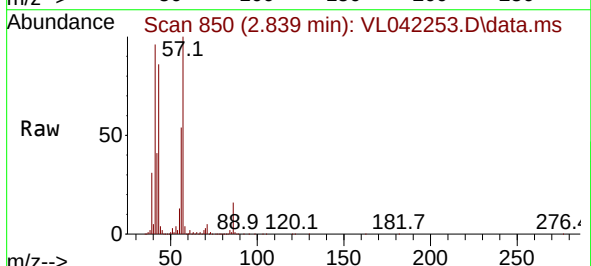
Ion Ratio Lower Upper

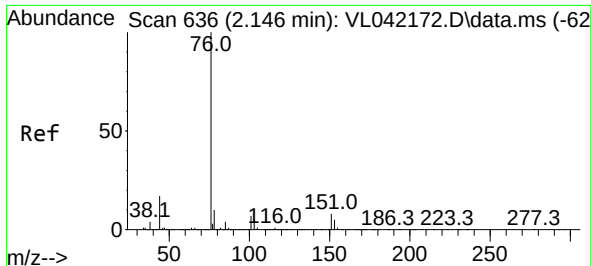
57 100

41 99.7 76.6 114.8

43 264.2 207.8 311.8

56 56.2 43.6 65.4

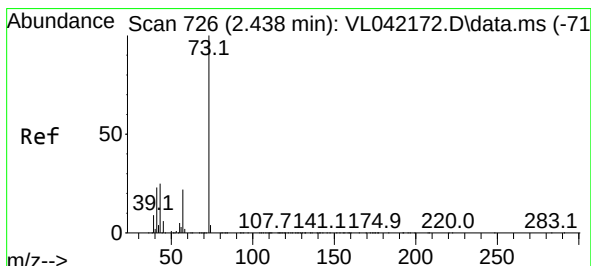
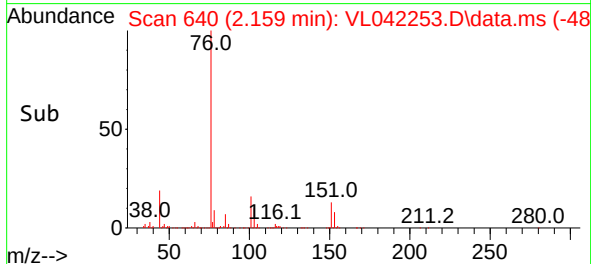
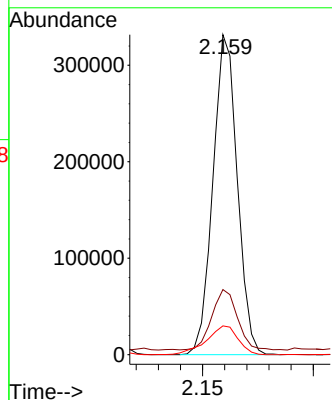
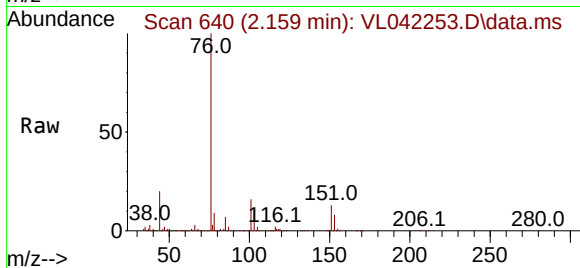




#27
Carbon Disulfide
Concen: 8.762 ppbv
RT: 2.159 min Scan# 640
Delta R.T. 0.013 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

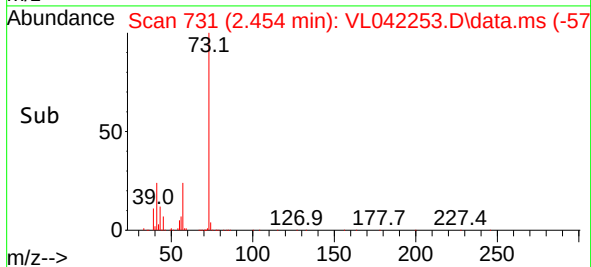
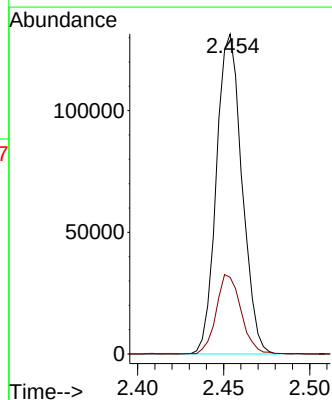
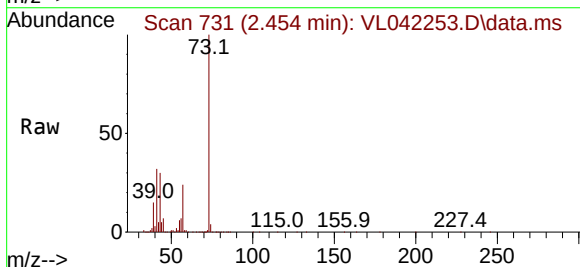
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

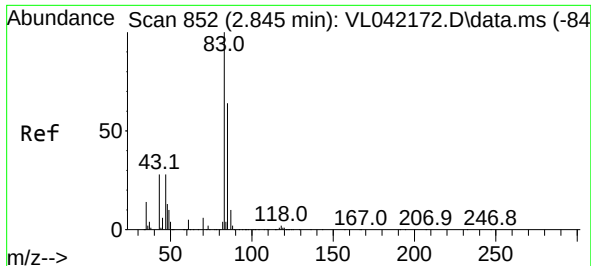
Tgt Ion: 76 Resp: 253909
Ion Ratio Lower Upper
76 100
44 20.0 14.7 22.1
78 11.7 9.3 13.9



#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 :

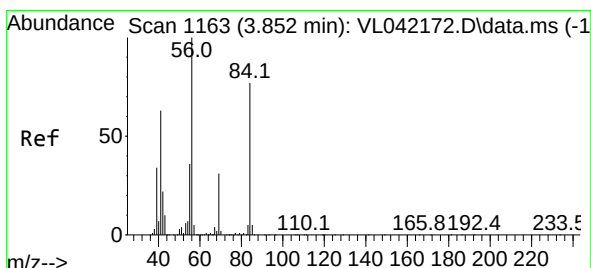
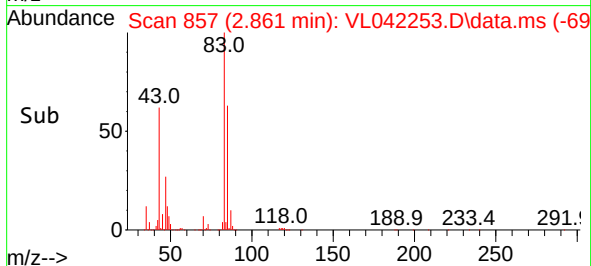
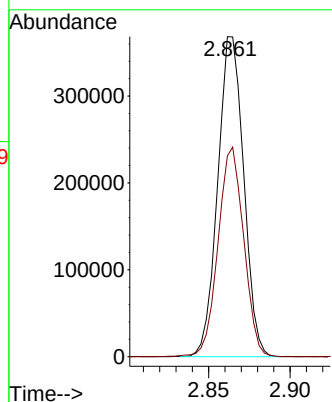
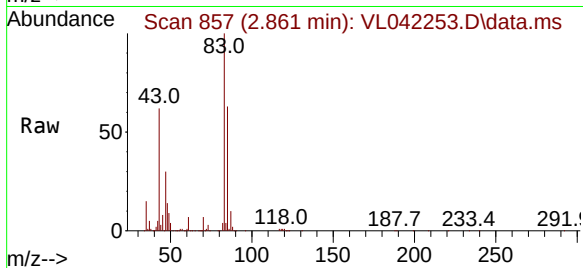
VSTDCCC010

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

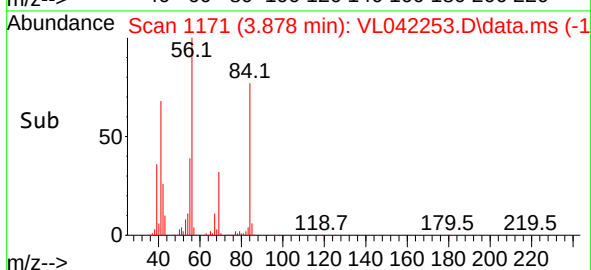
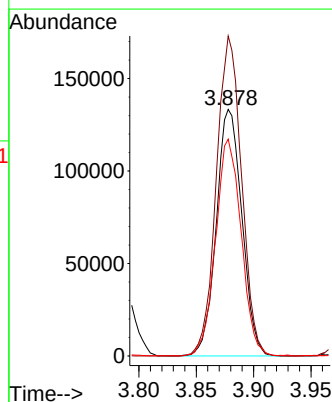
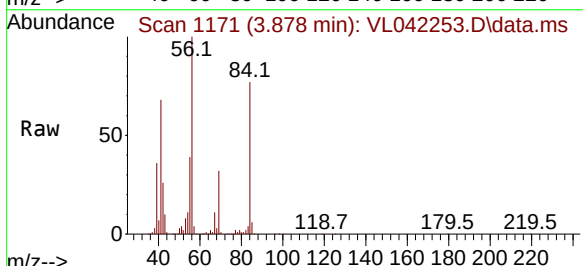
Tgt Ion: 84 Resp: 207216

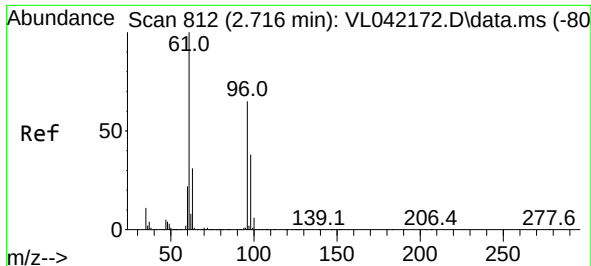
Ion Ratio Lower Upper

84 100

56 127.8 102.8 154.2

41 88.0 66.5 99.7

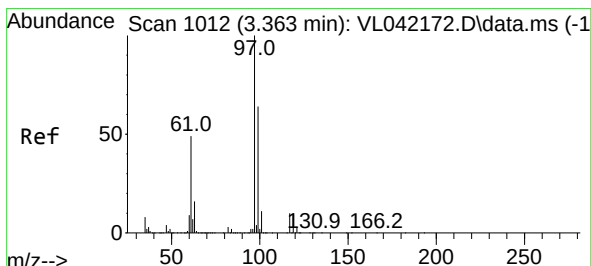
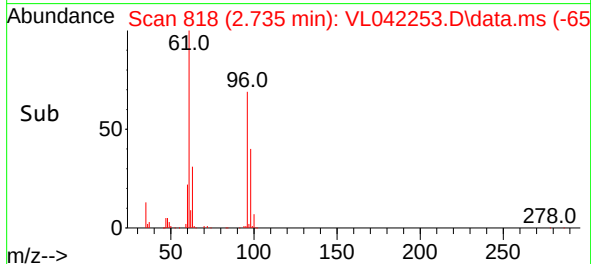
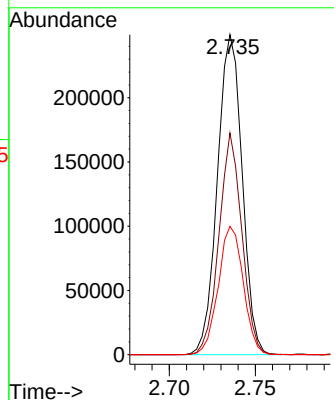
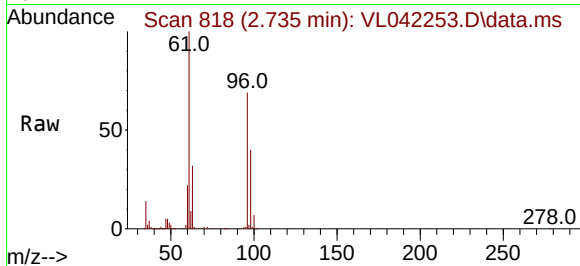




#31
 cis-1,2-Dichloroethene
 Concen: 9.098 ppbv
 RT: 2.735 min Scan# 812
 Delta R.T. 0.019 min
 Lab File: VL042253.D
 Acq: 08 Apr 2025 08:39

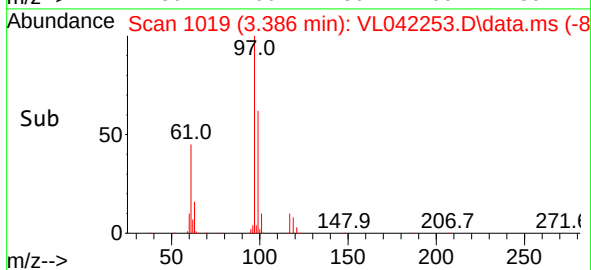
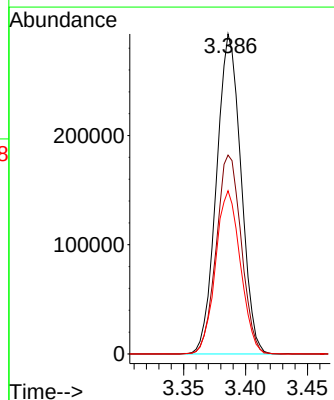
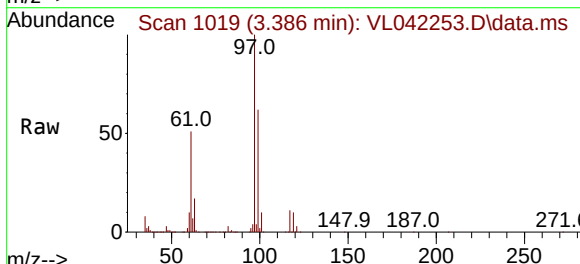
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

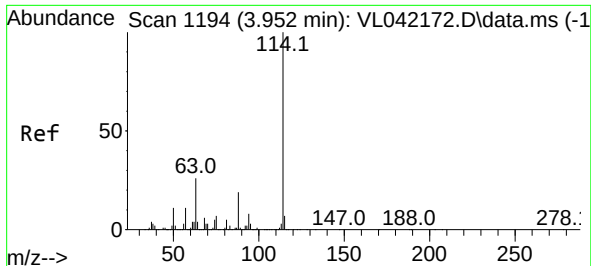
Tgt Ion: 61 Resp: 249595
 Ion Ratio Lower Upper
 61 100
 96 69.3 51.8 77.8
 98 40.1 30.6 46.0



#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

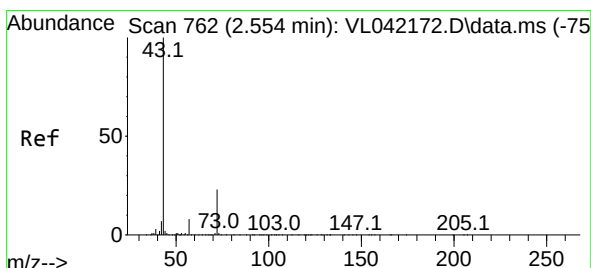
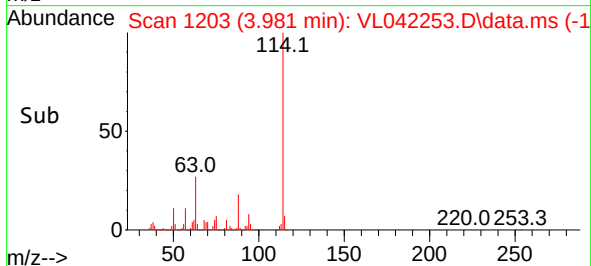
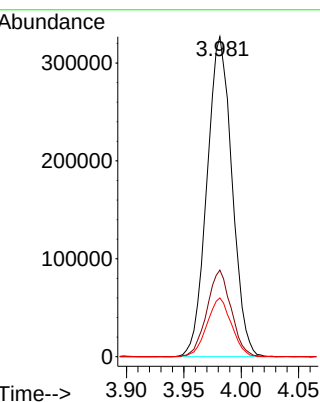
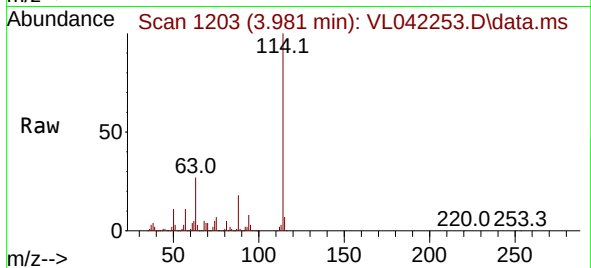
Tgt Ion:114 Resp: 496271

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

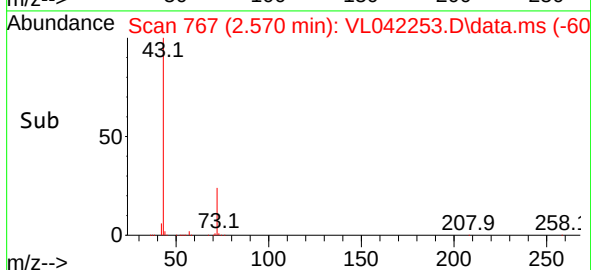
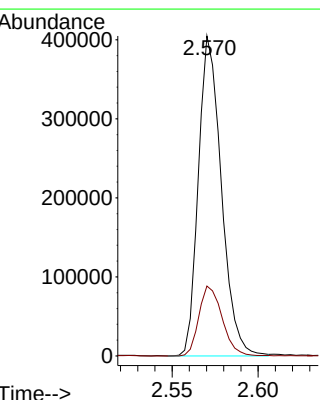
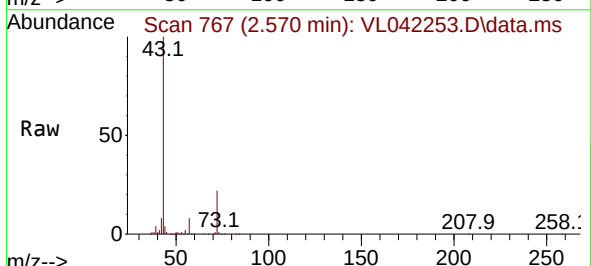
Acq: 08 Apr 2025 08:39

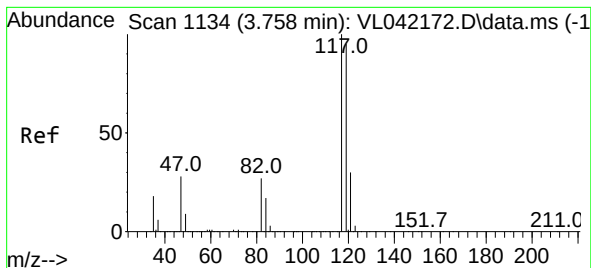
Tgt Ion: 43 Resp: 375791

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

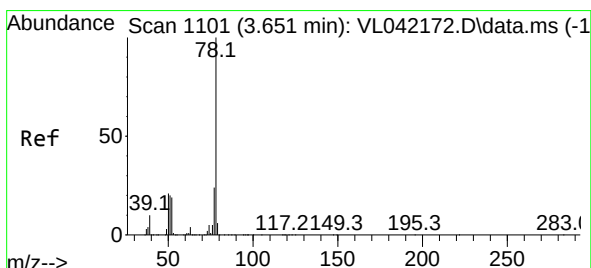
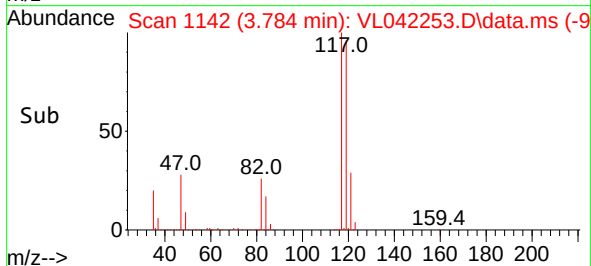
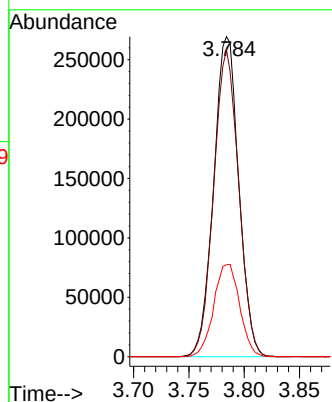
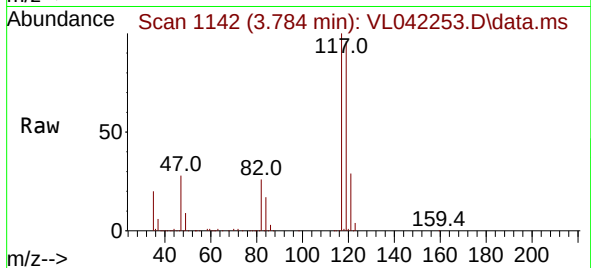
Tgt Ion:117 Resp: 423863

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

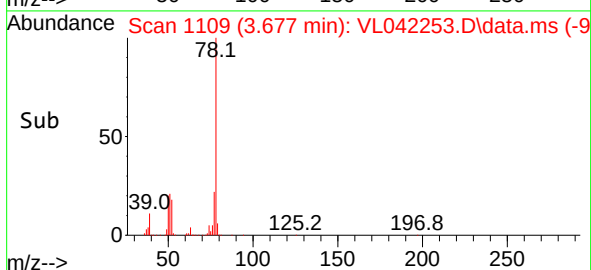
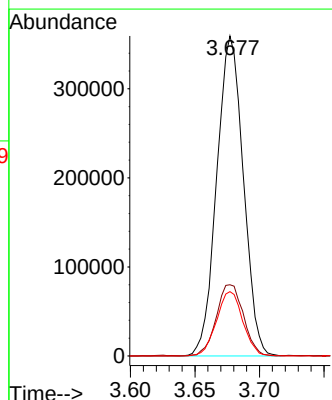
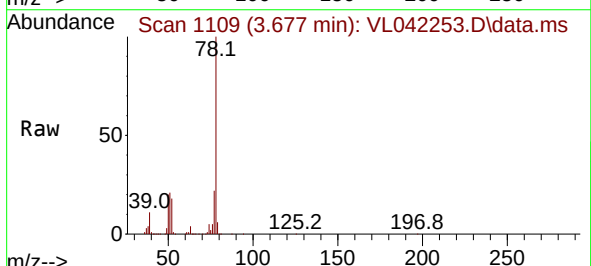
Tgt Ion: 78 Resp: 514967

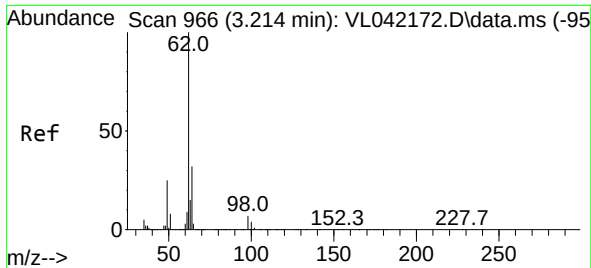
Ion Ratio Lower Upper

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 :

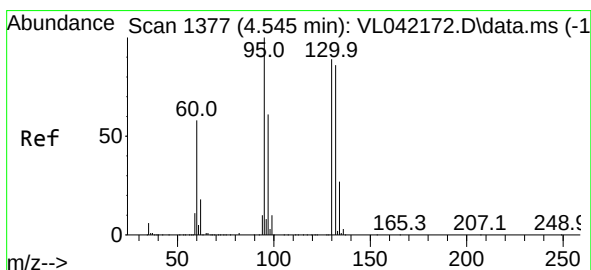
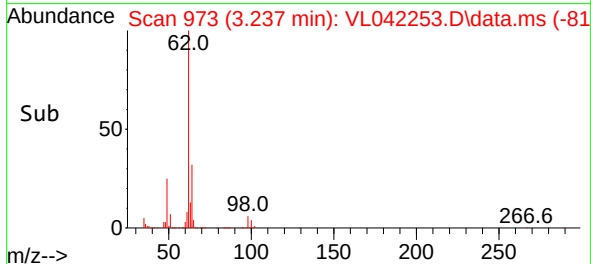
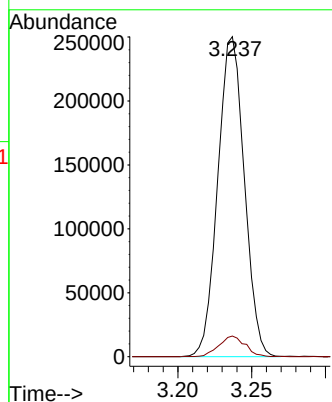
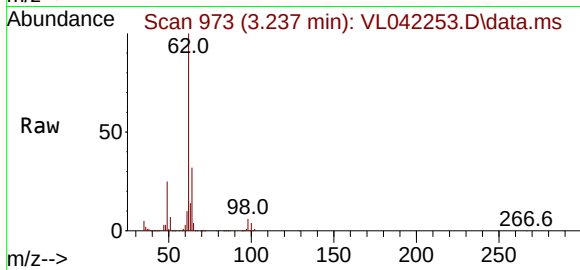
VSTDCCC010

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

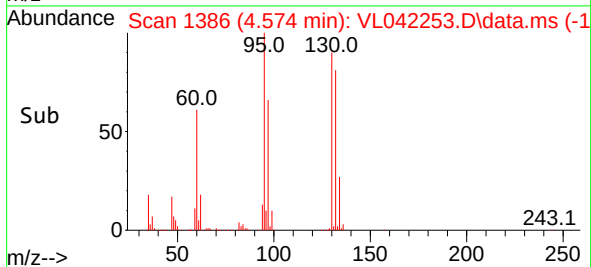
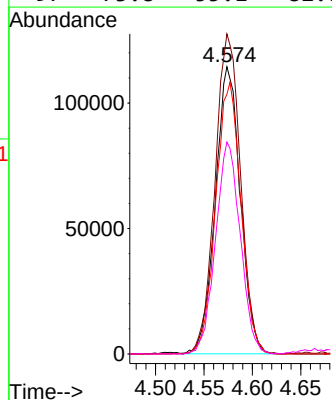
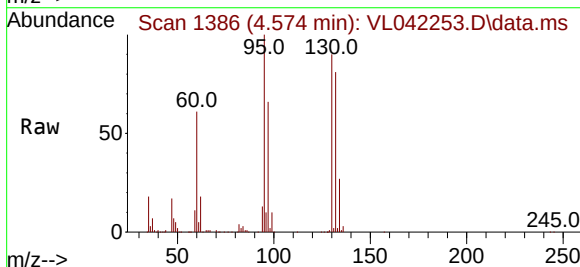
Ion Ratio Lower Upper

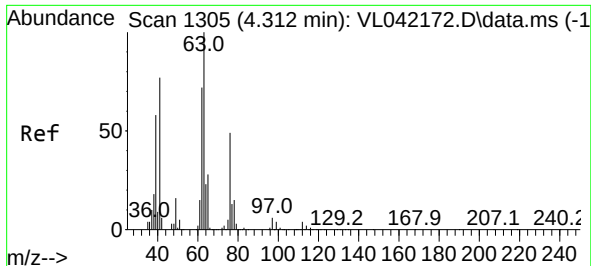
130 100

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# 11

Delta R.T. 0.029 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

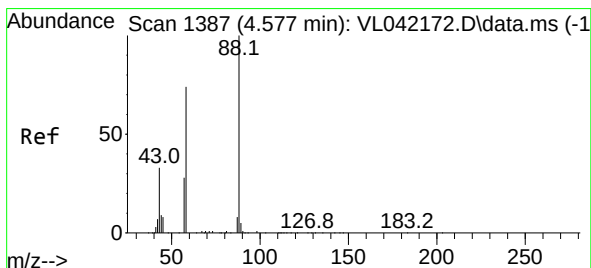
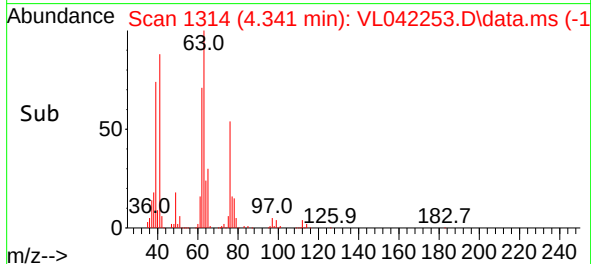
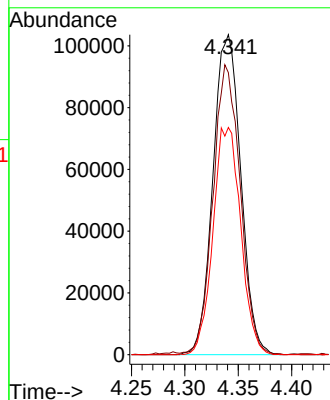
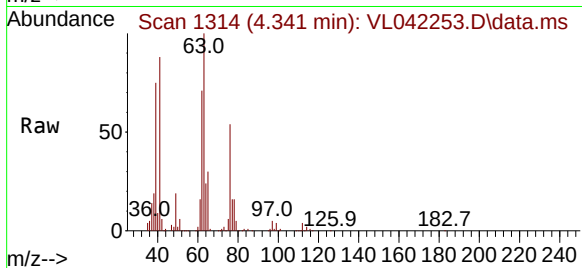
Tgt Ion: 63 Resp: 188150

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

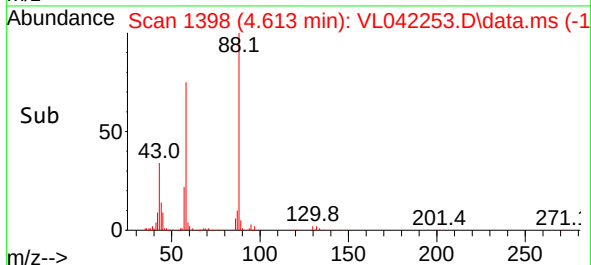
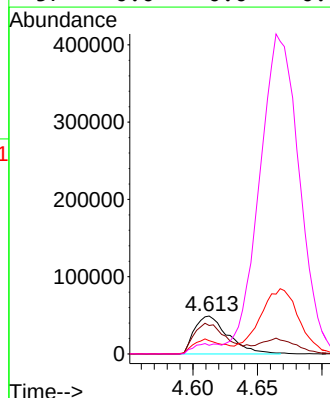
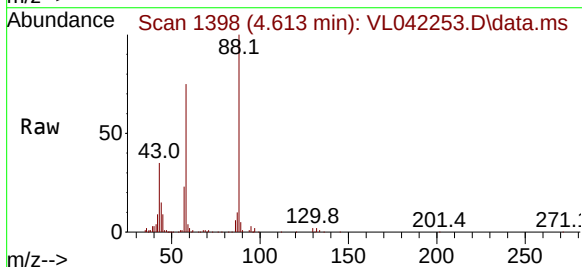
Ion Ratio Lower Upper

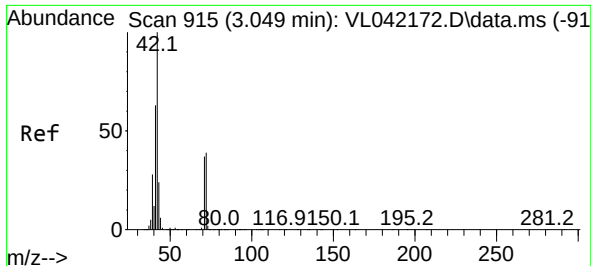
88 100

58 78.8 62.7 94.1

43 35.2 23.0 34.4#

57 0.0 0.0 0.0

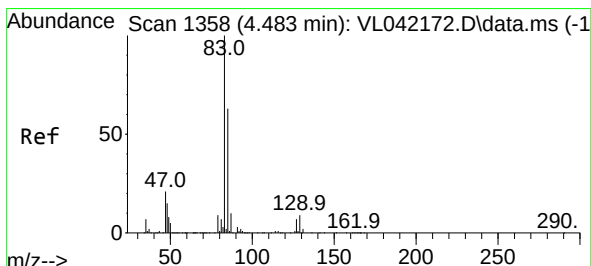
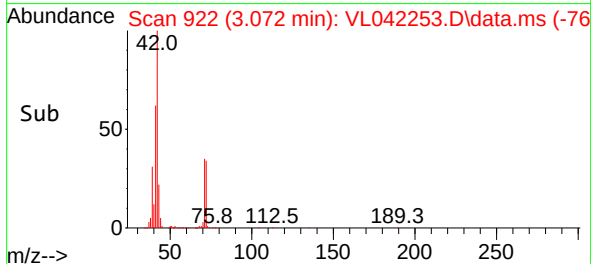
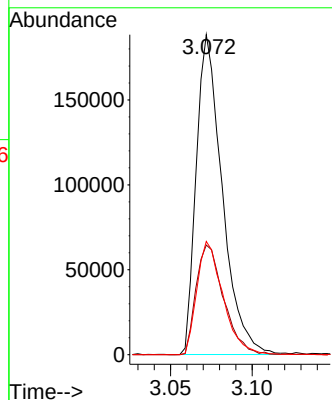
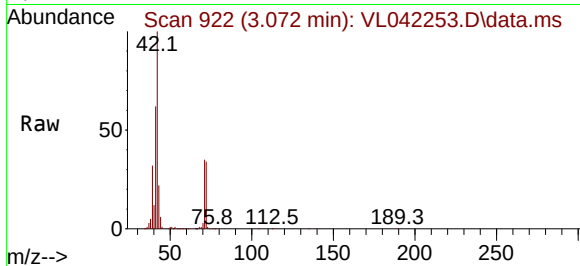




#41
Tetrahydrofuran
Concen: 10.073 ppbv
RT: 3.072 min Scan# 915
Delta R.T. 0.023 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

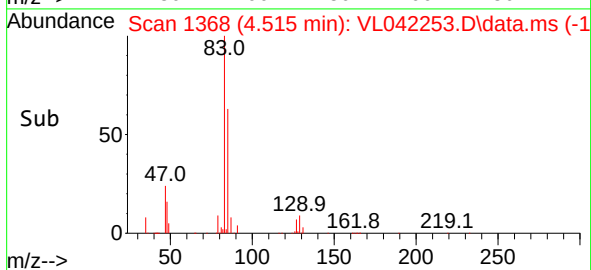
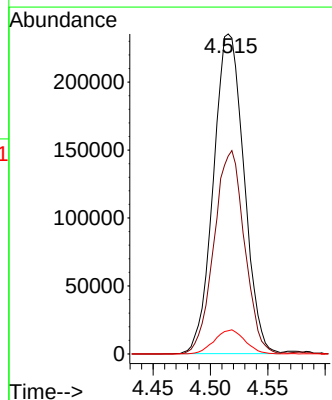
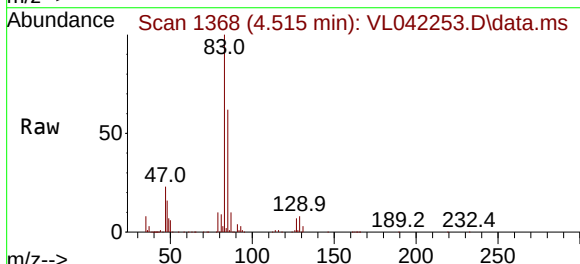
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

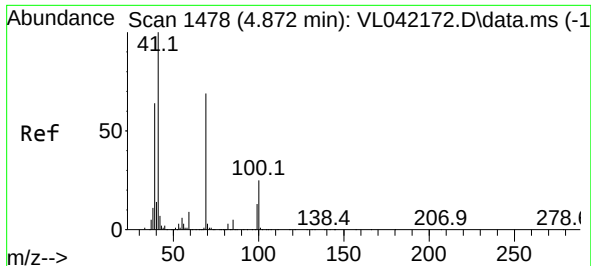
Tgt Ion: 42 Resp: 208736
Ion Ratio Lower Upper
42 100
72 36.5 31.4 47.0
71 35.6 30.2 45.4



#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

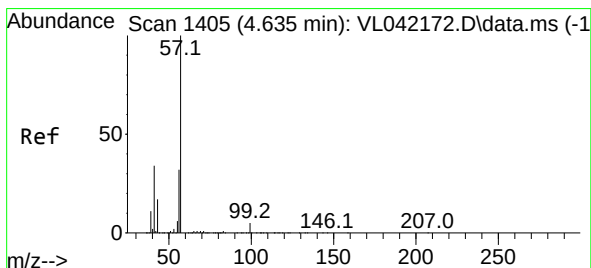
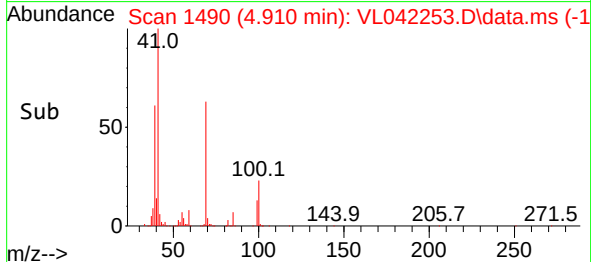
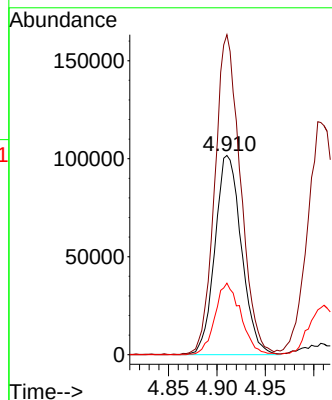
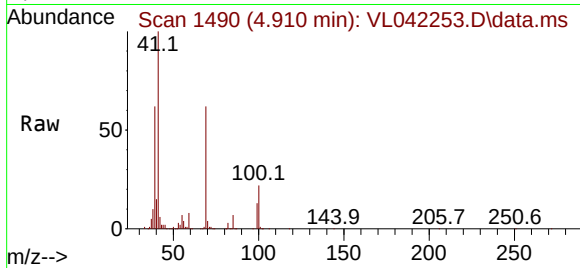




#43
Methyl Methacrylate
Concen: 9.288 ppbv
RT: 4.910 min Scan# 1490
Delta R.T. 0.039 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

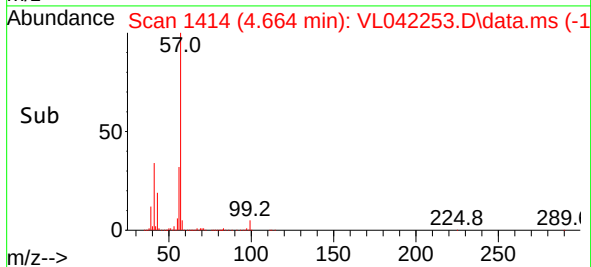
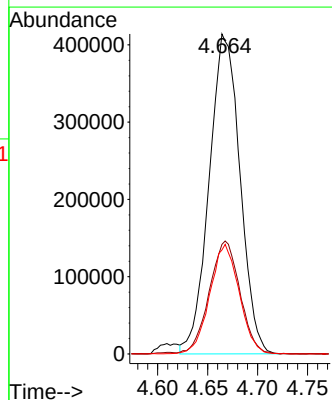
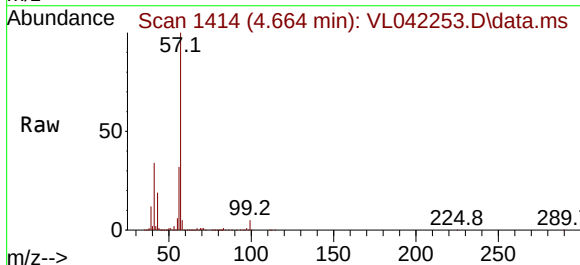
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

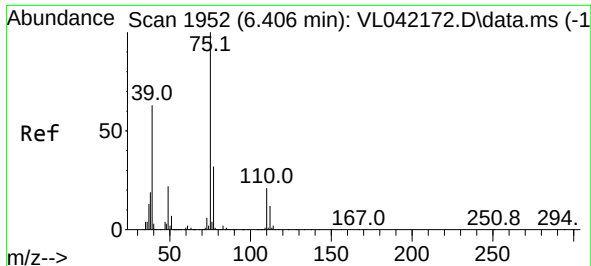
Tgt Ion: 69 Resp: 193449
Ion Ratio Lower Upper
69 100
41 156.1 123.8 185.6
100 35.2 28.4 42.6



#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# 1952

Delta R.T. 0.045 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

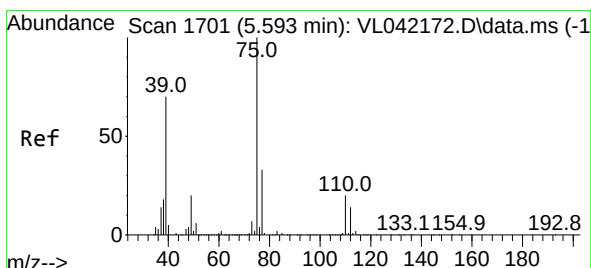
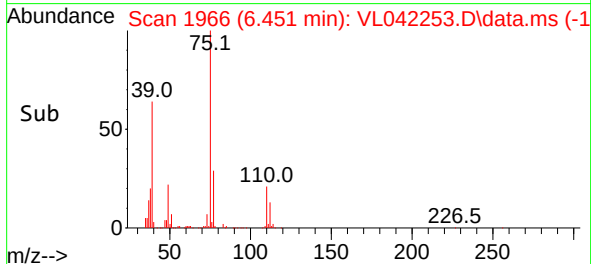
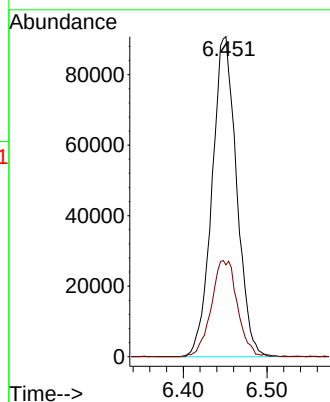
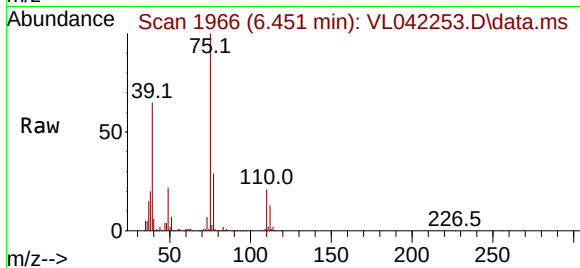
VSTDCCC010

Tgt Ion: 75 Resp: 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

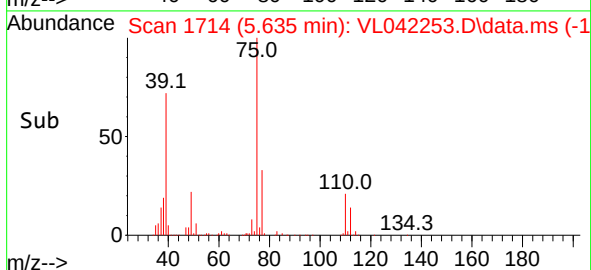
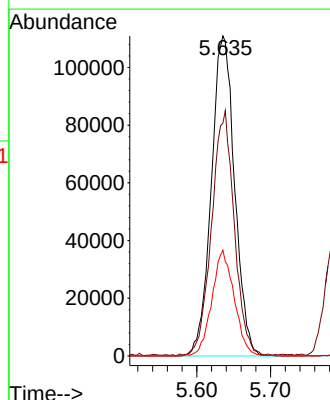
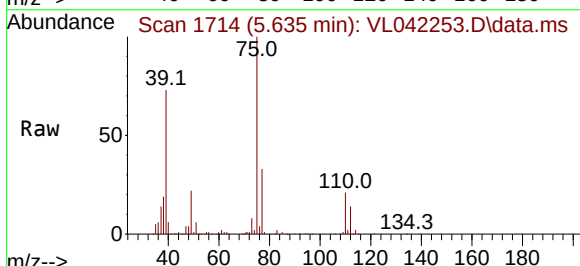
Tgt Ion: 75 Resp: 243227

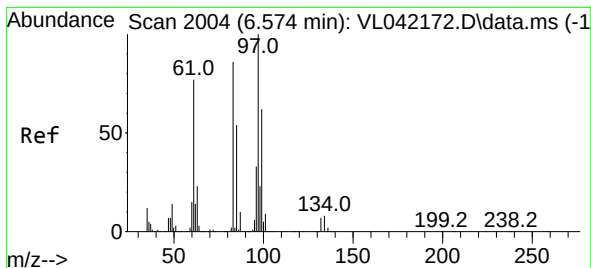
Ion Ratio Lower Upper

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

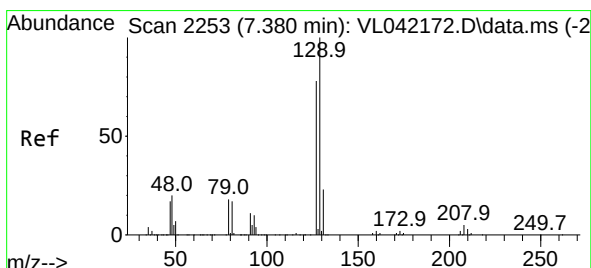
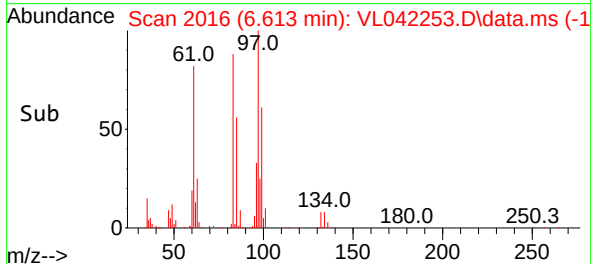
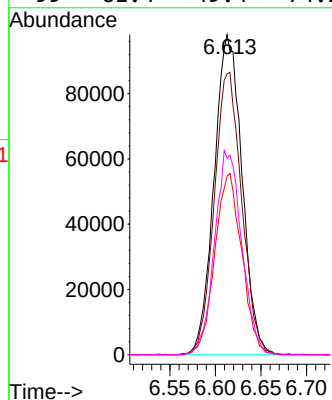
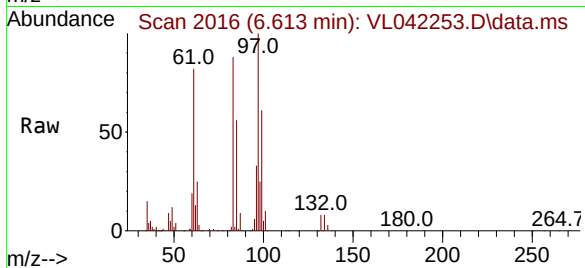
Ion Ratio Lower Upper

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

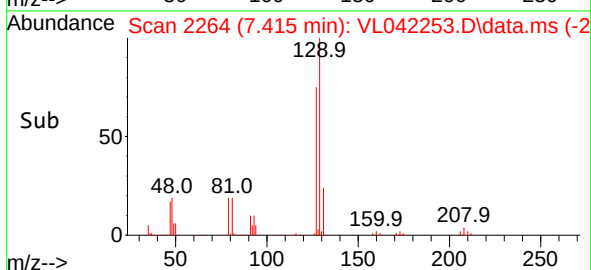
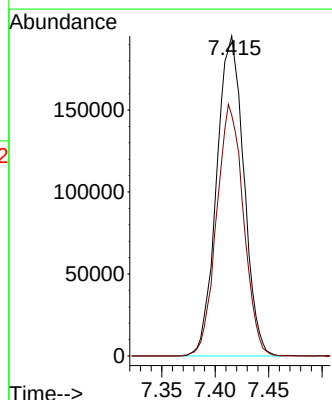
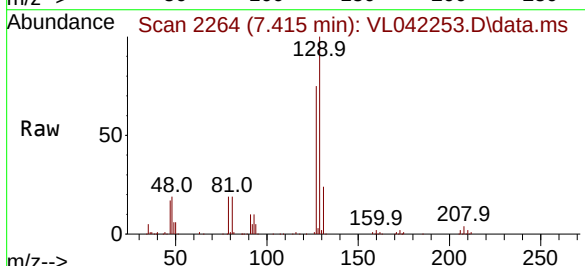
Acq: 08 Apr 2025 08:39

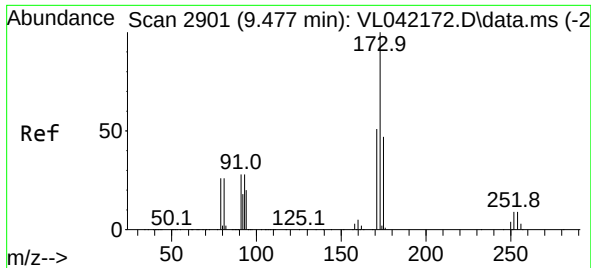
Tgt Ion: 129 Resp: 346117

Ion Ratio Lower Upper

129 100

127 77.6 39.1 117.2

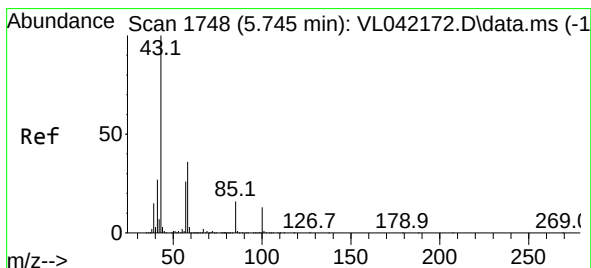
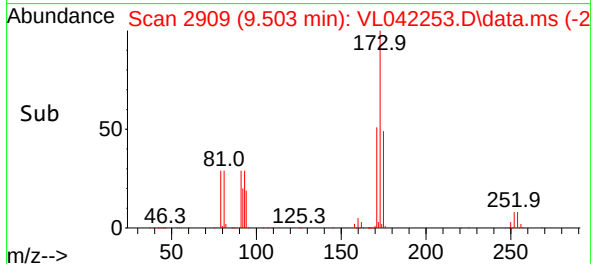
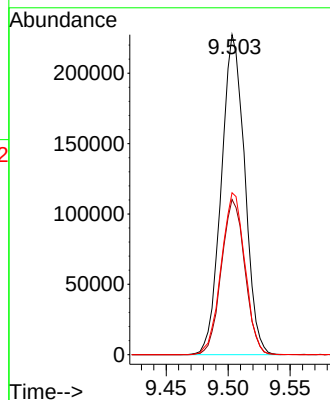
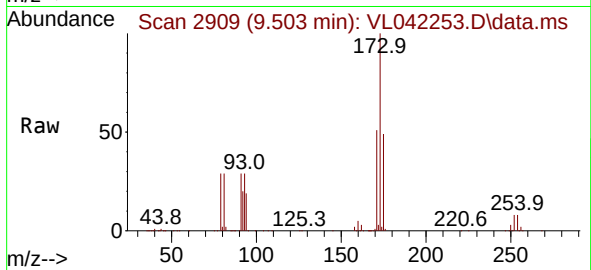




#49
Bromoform
Concen: 10.395 ppbv
RT: 9.503 min Scan# 2909
Delta R.T. 0.026 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

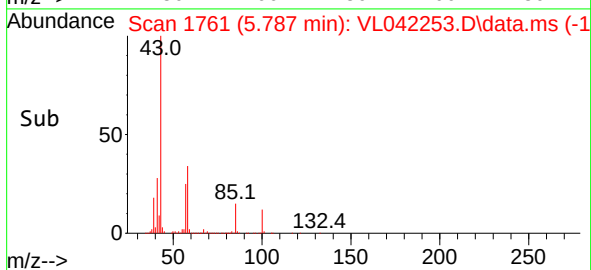
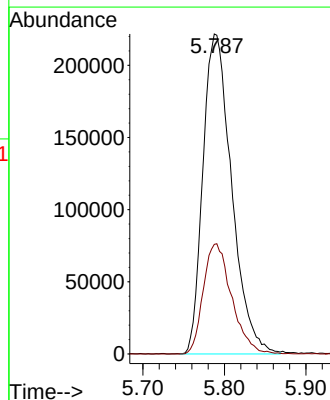
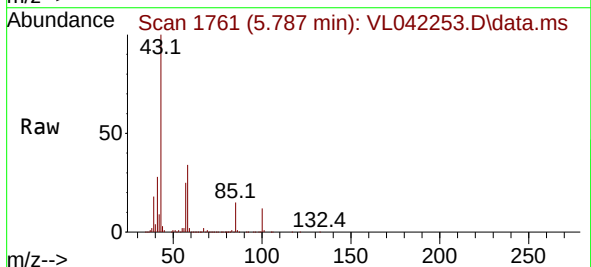
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

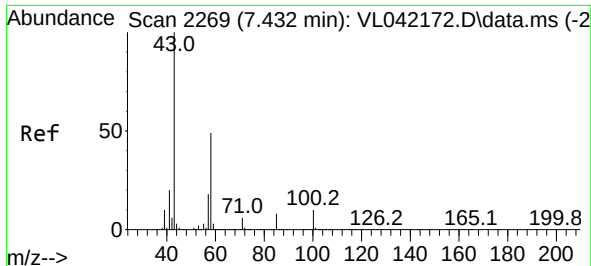
Tgt Ion:173 Resp: 299582
Ion Ratio Lower Upper
173 100
175 48.6 38.6 57.8
171 51.3 41.8 62.6



#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

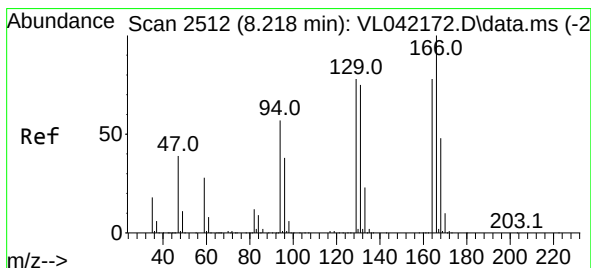
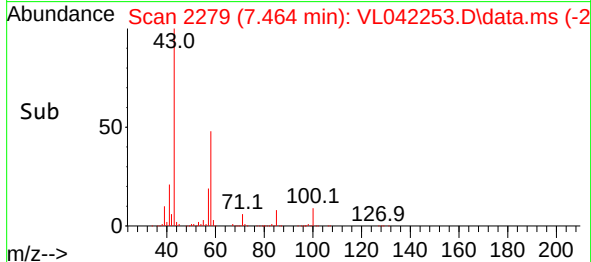
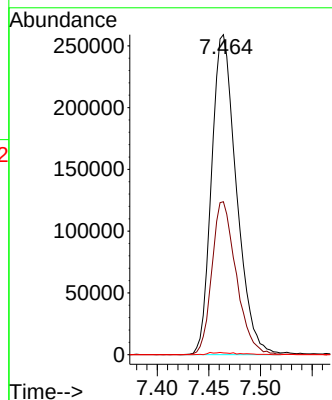
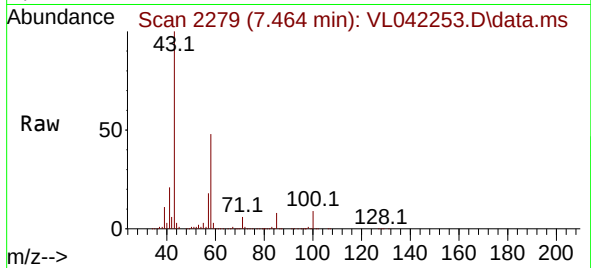




#51
2-Hexanone
Concen: 9.266 ppbv
RT: 7.464 min Scan# 21
Delta R.T. 0.032 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

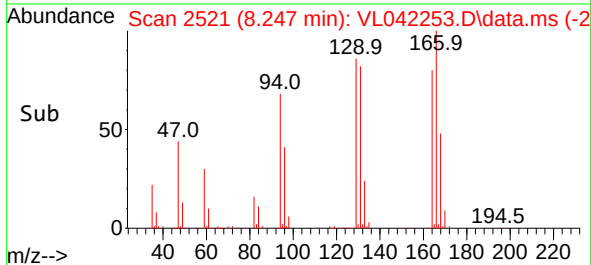
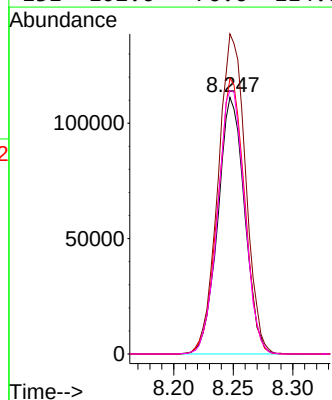
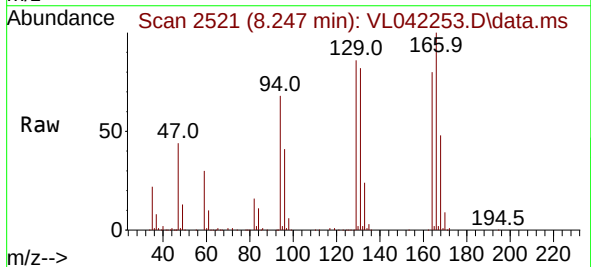
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

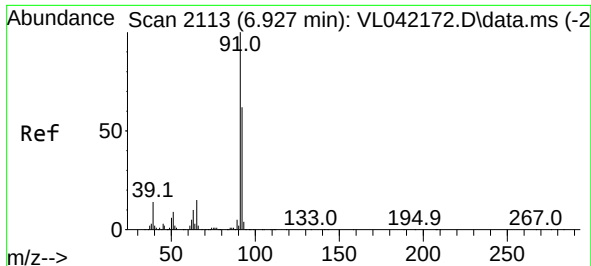
Tgt Ion: 43 Resp: 433929
Ion Ratio Lower Upper
43 100
58 46.9 39.7 59.5
98 0.8 0.1 0.1#



#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

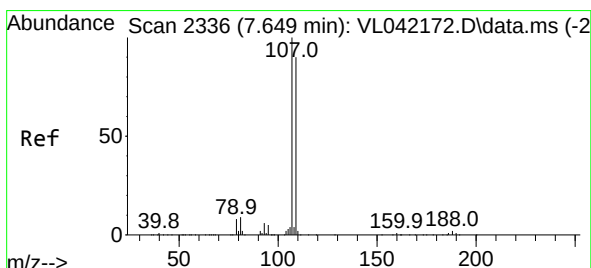
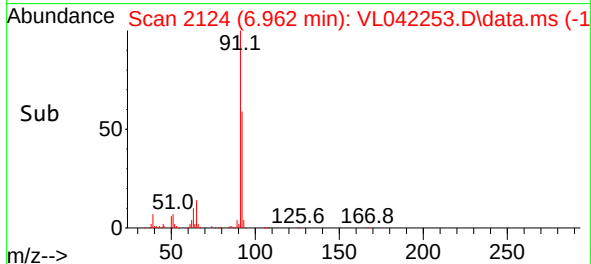
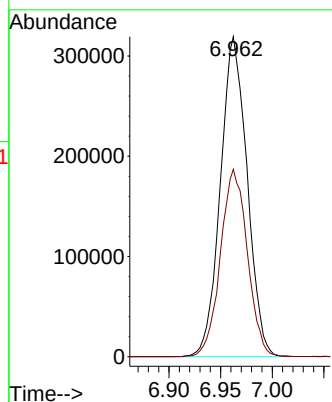
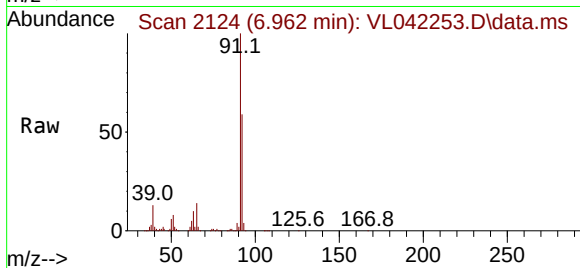




#53
Toluene
Concen: 9.853 ppbv
RT: 6.962 min Scan# 2113
Delta R.T. 0.035 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

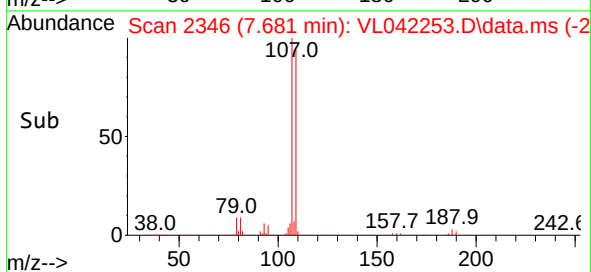
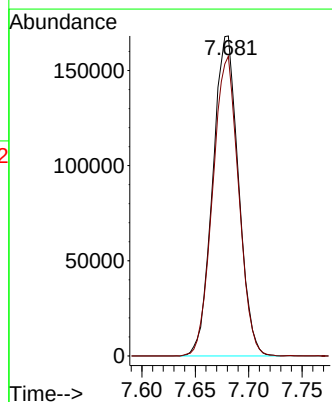
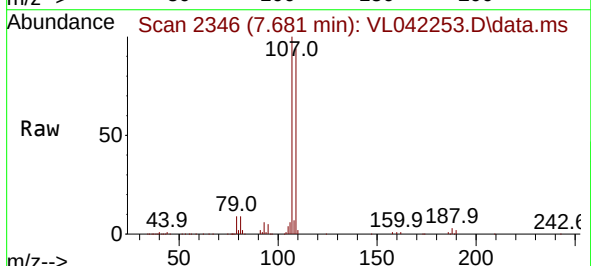
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

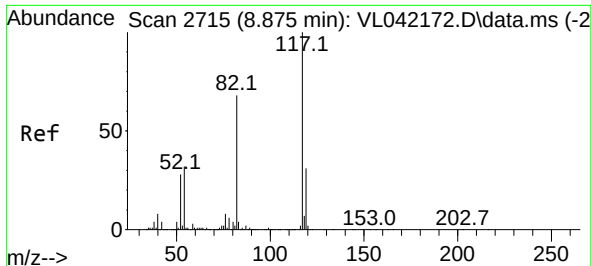
Tgt Ion: 91 Resp: 574664
Ion Ratio Lower Upper
91 100
92 59.1 48.4 72.6



#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

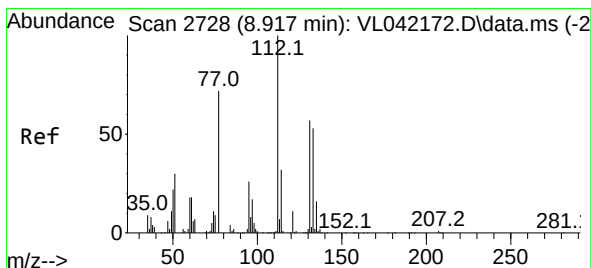
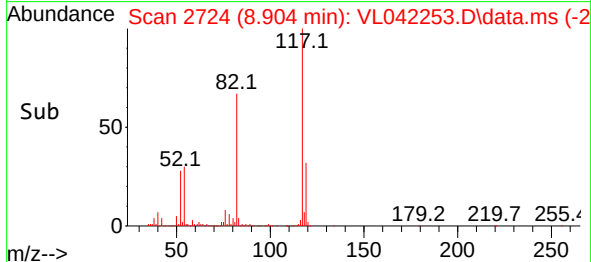
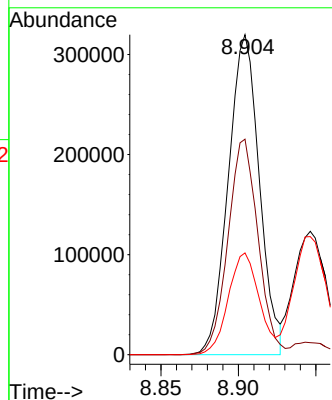
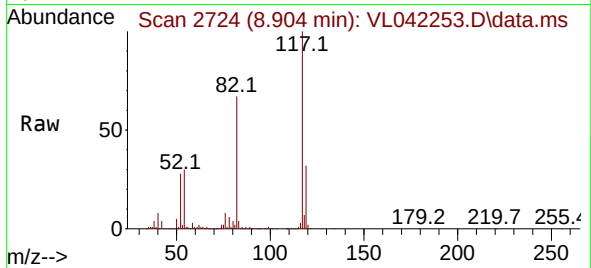




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 2173
Delta R.T. 0.029 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

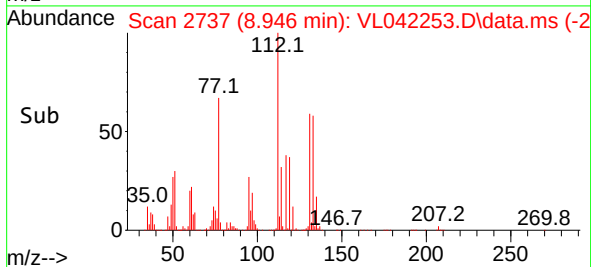
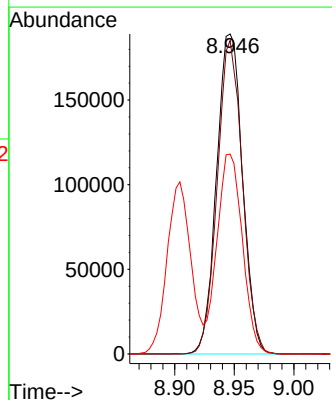
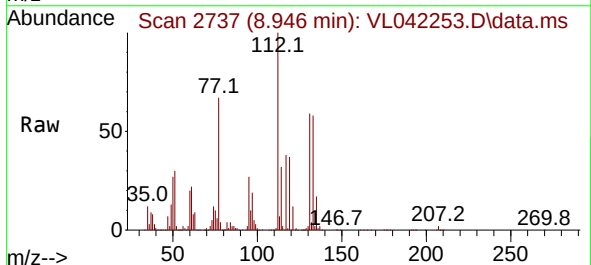
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

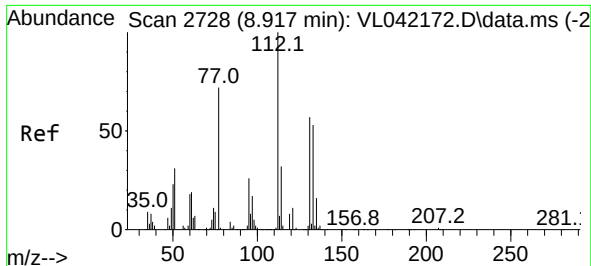
Tgt Ion:117 Resp: 446954
Ion Ratio Lower Upper
117 100
82 69.4 55.8 83.6
119 31.7 25.5 38.3



#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

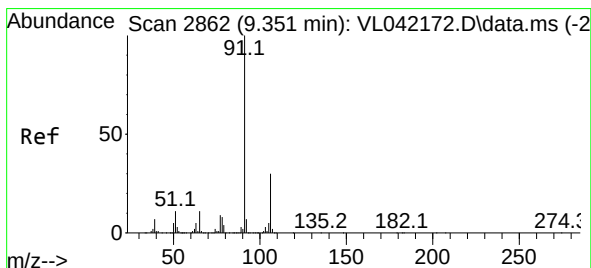
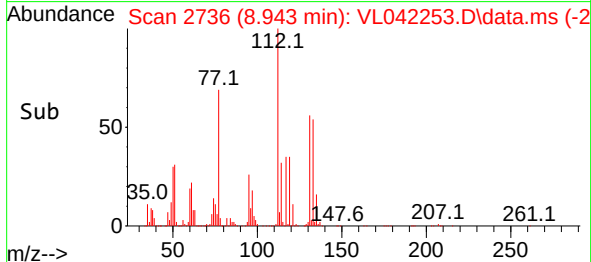
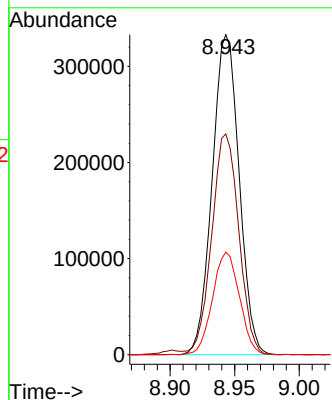
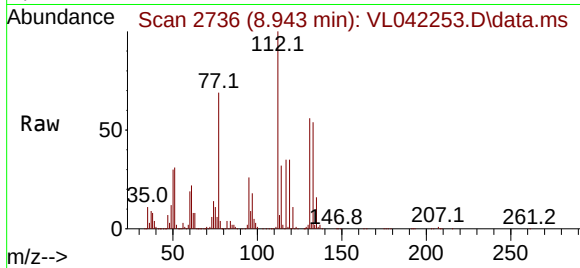




#57
Chlorobenzene
Concen: 11.411 ppbv
RT: 8.943 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

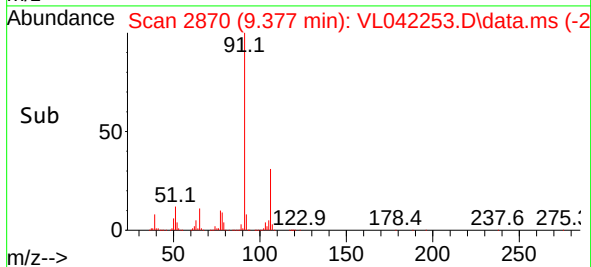
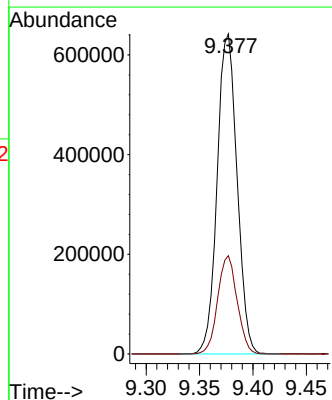
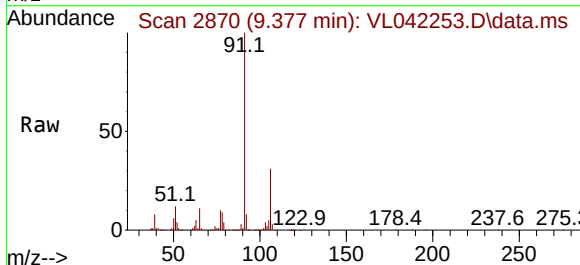
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

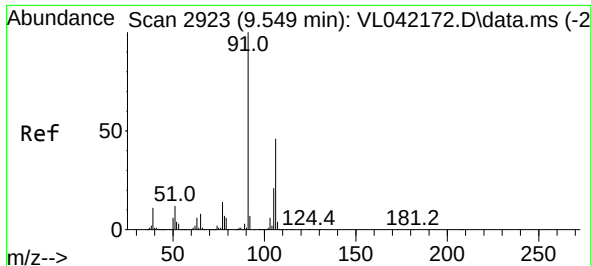
Tgt Ion:112 Resp: 483780
Ion Ratio Lower Upper
112 100
77 69.0 58.2 87.2
114 32.1 29.1 35.5



#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 :

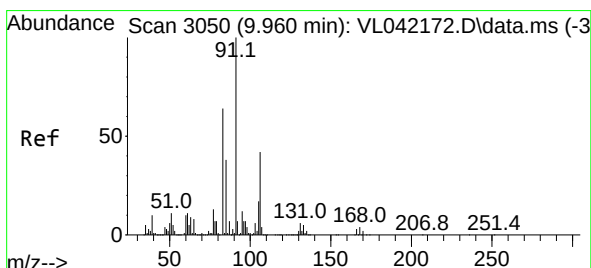
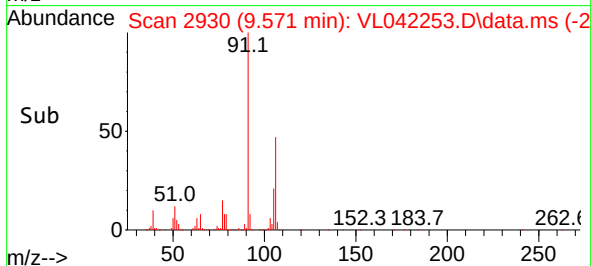
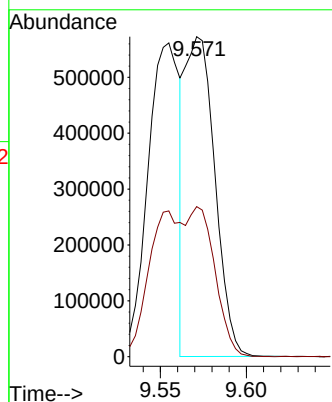
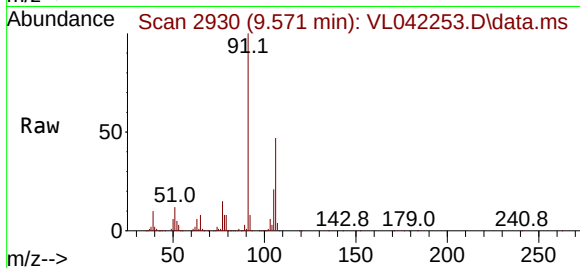
VSTDCCC010

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

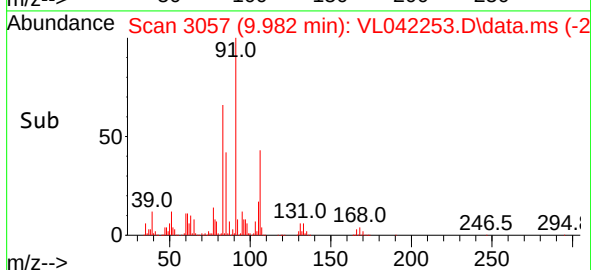
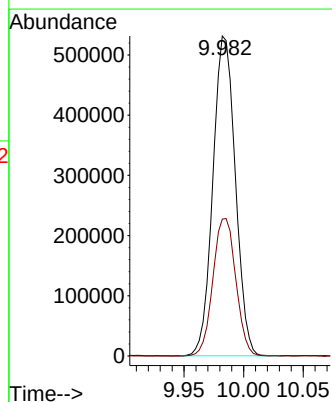
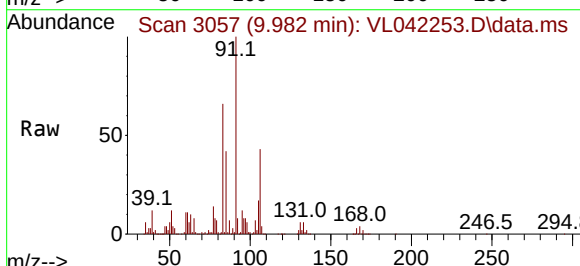
Acq: 08 Apr 2025 08:39

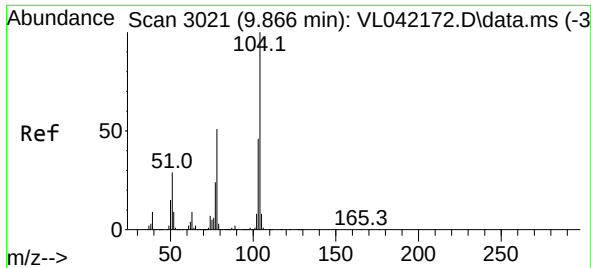
Tgt Ion: 91 Resp: 696371

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

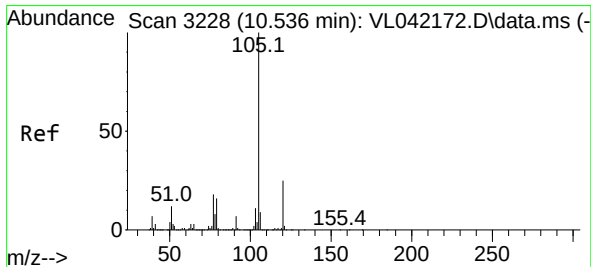
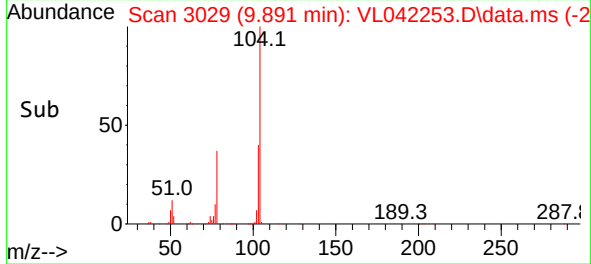
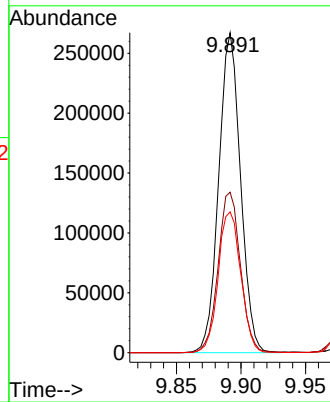
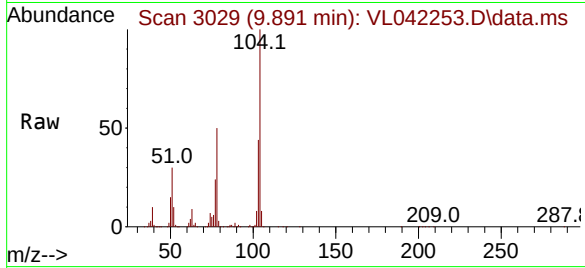
Tgt Ion:104 Resp: 313307

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

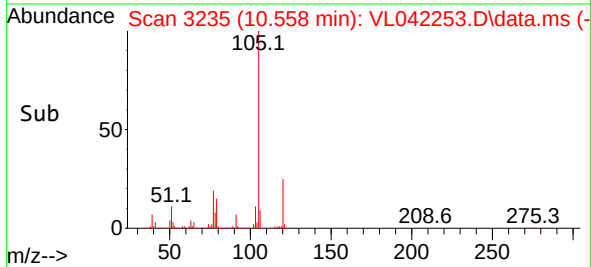
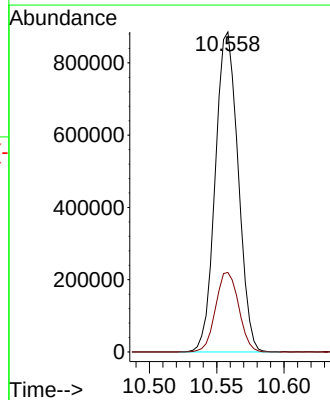
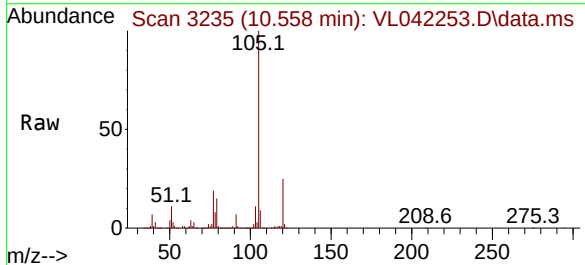
Acq: 08 Apr 2025 08:39

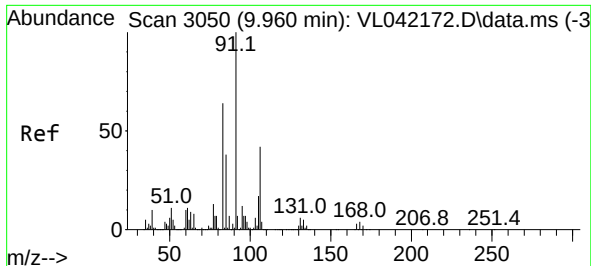
Tgt Ion:105 Resp: 1044218

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

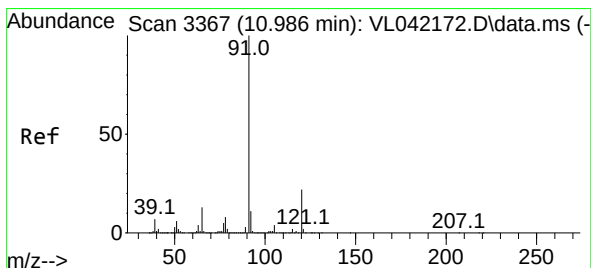
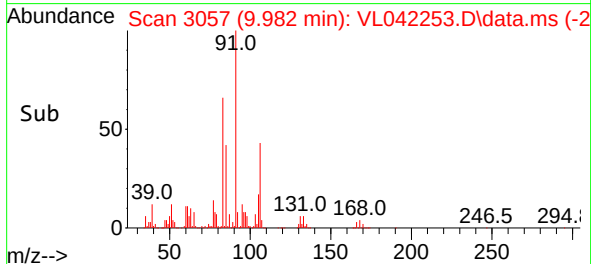
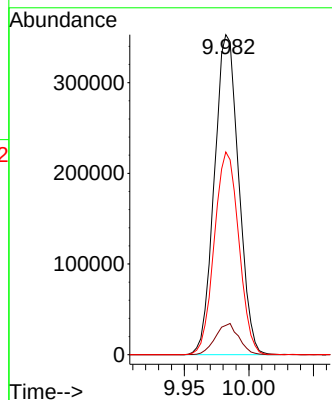
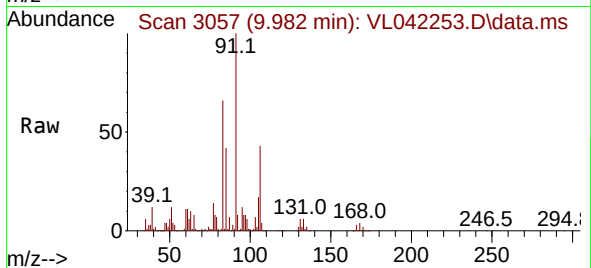
Tgt Ion: 83 Resp: 460968

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

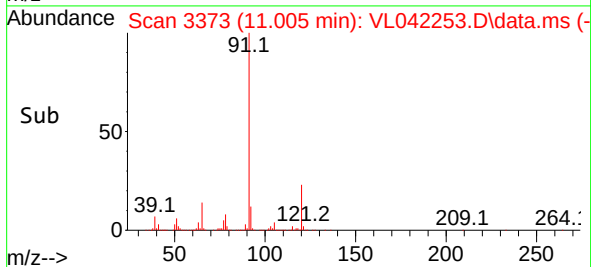
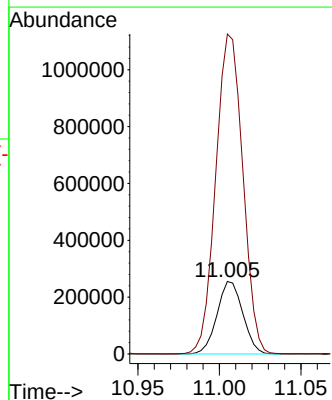
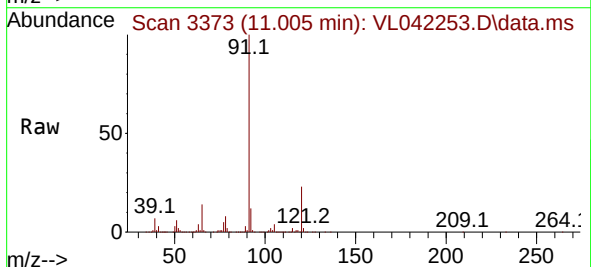
Acq: 08 Apr 2025 08:39

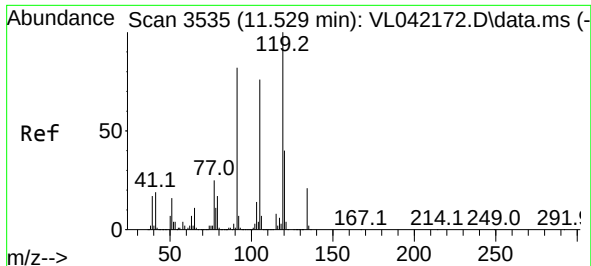
Tgt Ion: 120 Resp: 279848

Ion Ratio Lower Upper

120 100

91 464.8 376.9 565.3

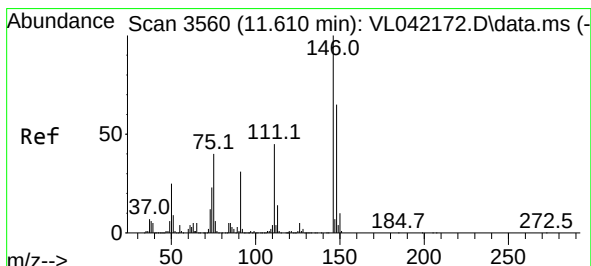
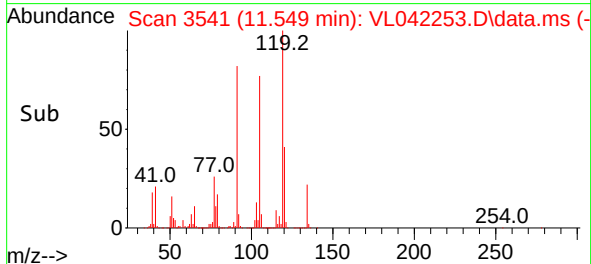
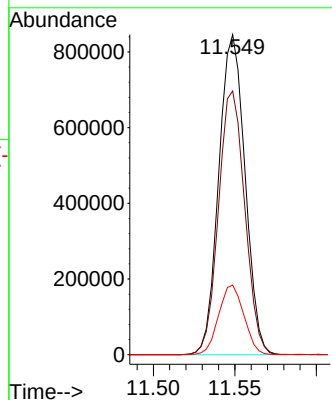
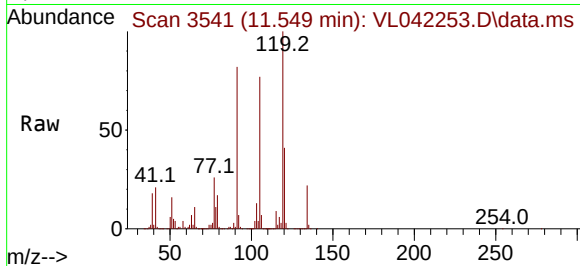




#65
tert-Butylbenzene
Concen: 10.755 ppbv
RT: 11.549 min Scan# 3541
Delta R.T. 0.019 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

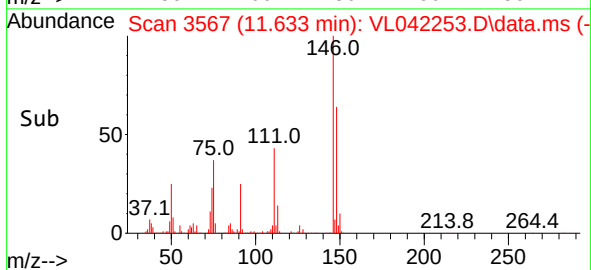
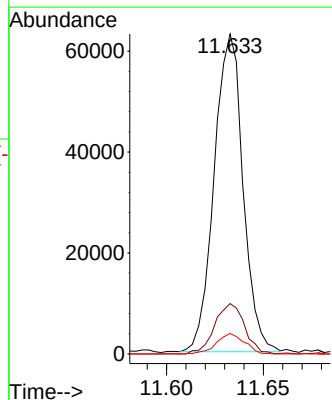
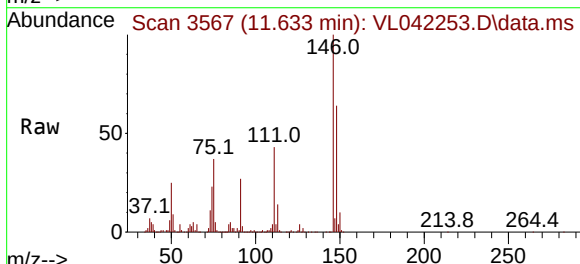
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

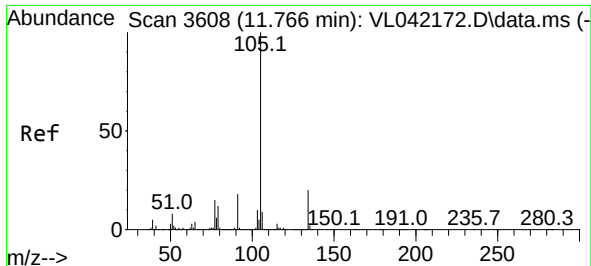
Tgt Ion:119 Resp: 945232
Ion Ratio Lower Upper
119 100
91 82.7 66.0 99.0
134 21.0 16.7 25.1



#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# 3184

Delta R.T. 0.019 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

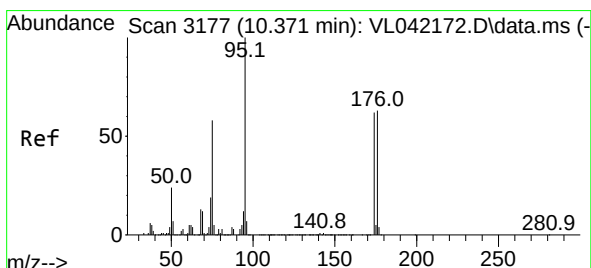
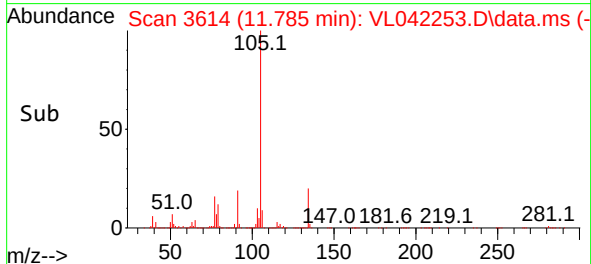
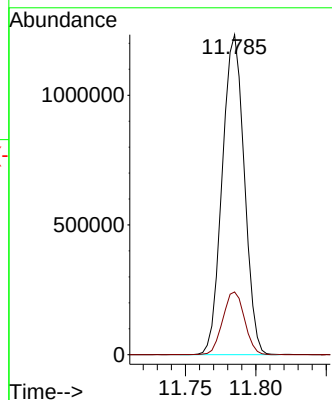
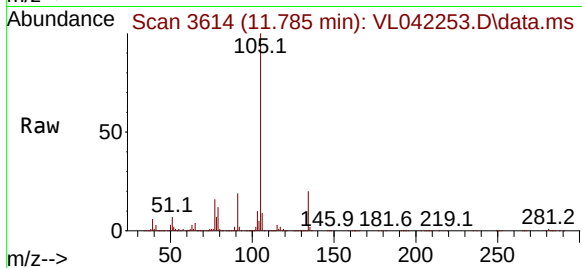
VSTDCCC010

Tgt Ion:105 Resp: 1343060

Ion Ratio Lower Upper

105 100

134 19.4 15.5 23.3



#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

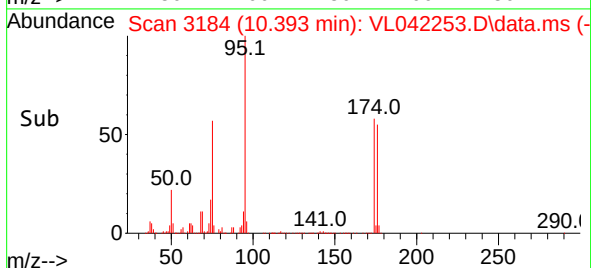
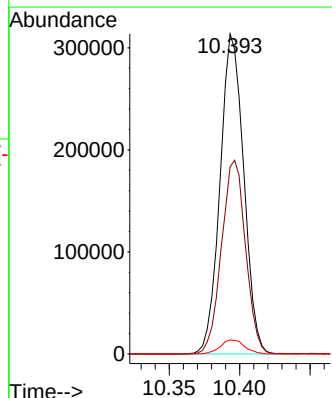
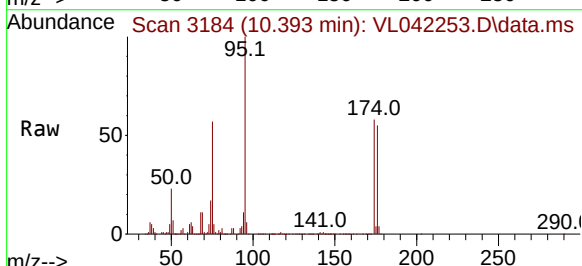
Tgt Ion: 95 Resp: 366722

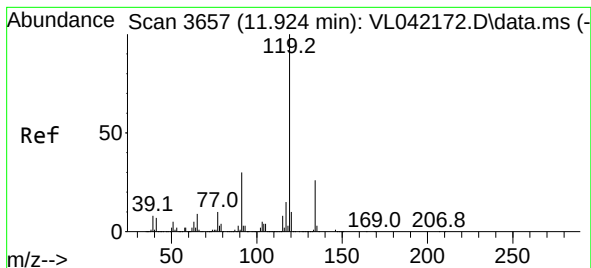
Ion Ratio Lower Upper

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# 3

Delta R.T. 0.016 min

Lab File: VL042253.D

Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

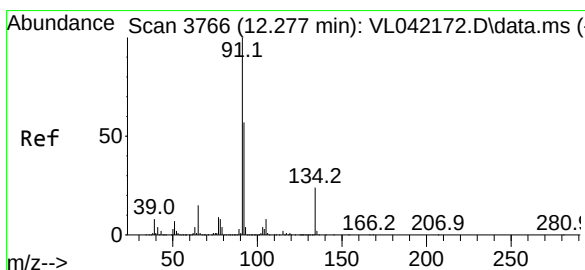
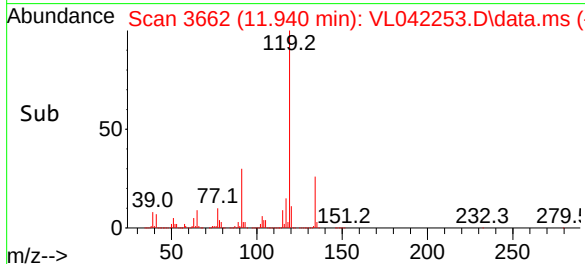
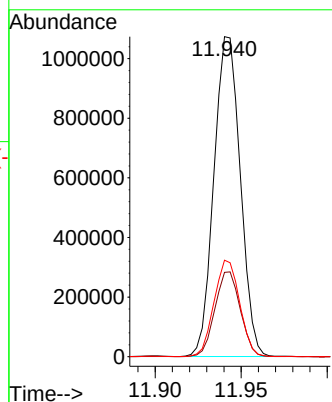
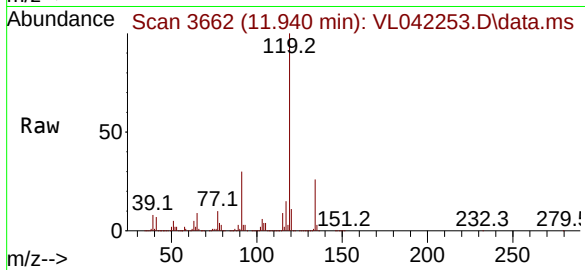
Tgt Ion:119 Resp: 1144759

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

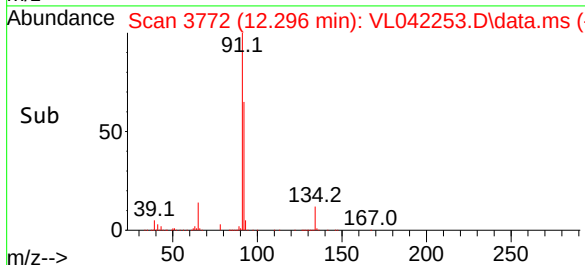
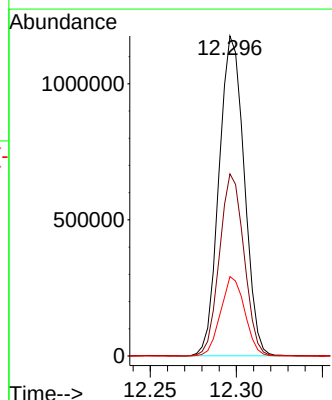
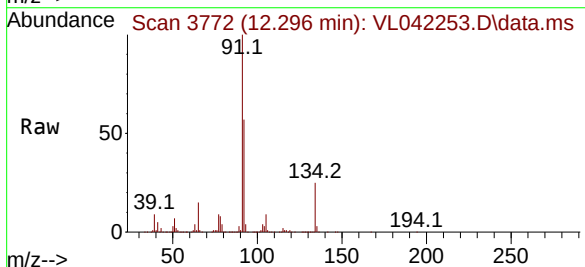
Tgt Ion: 91 Resp: 1194481

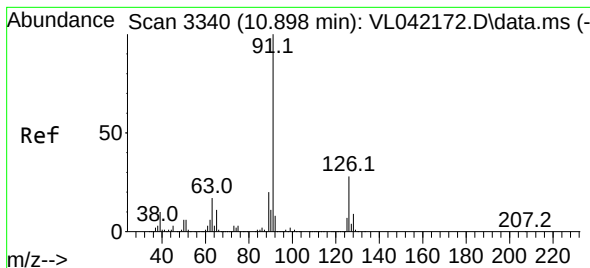
Ion Ratio Lower Upper

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 :

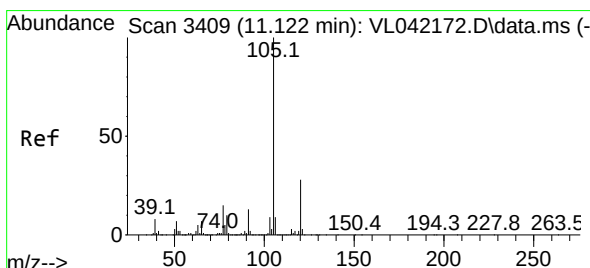
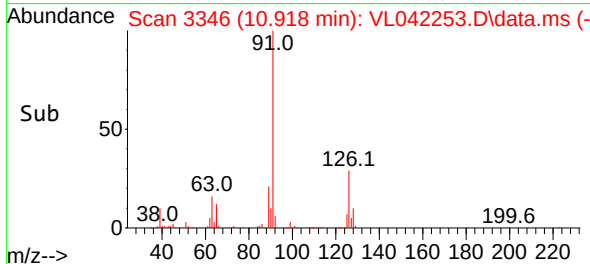
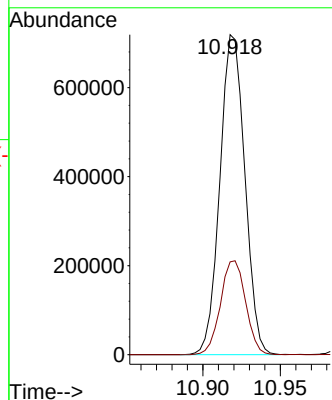
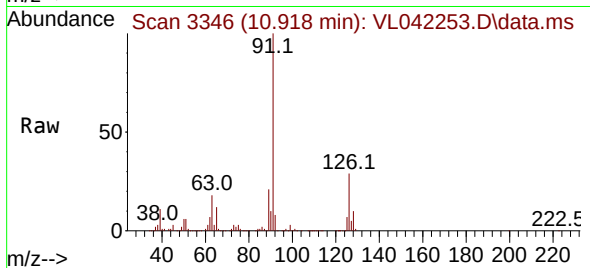
VSTDCCC010

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

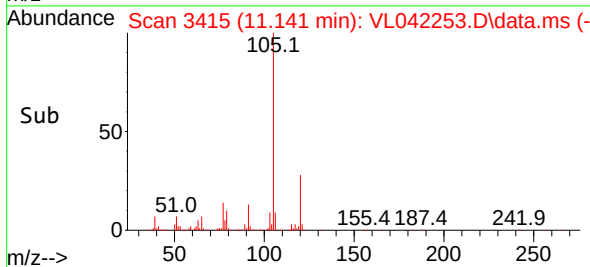
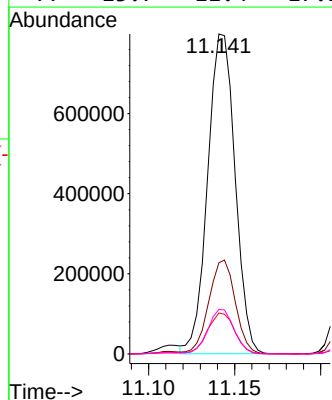
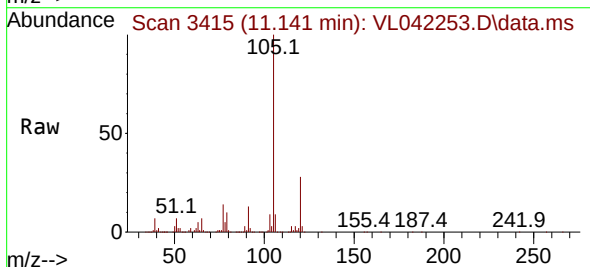
Ion Ratio Lower Upper

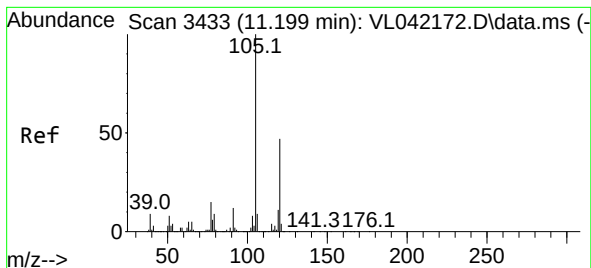
105 100

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 :

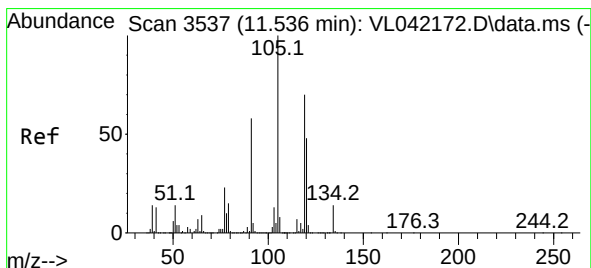
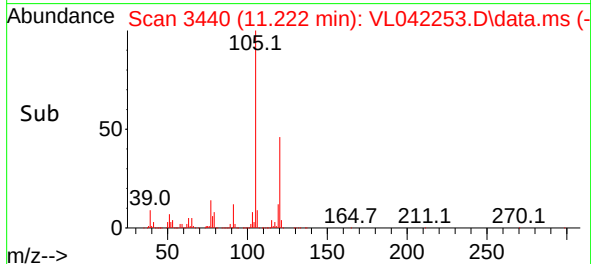
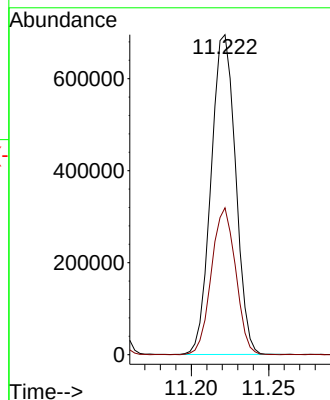
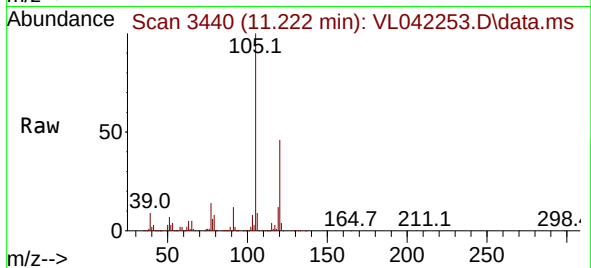
VSTDCCC010

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

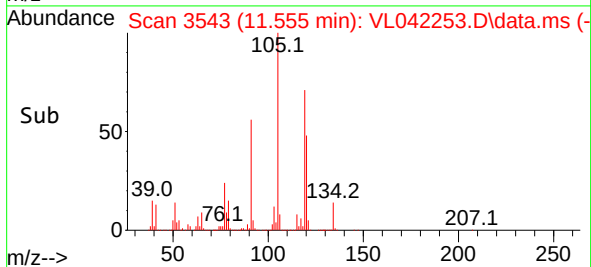
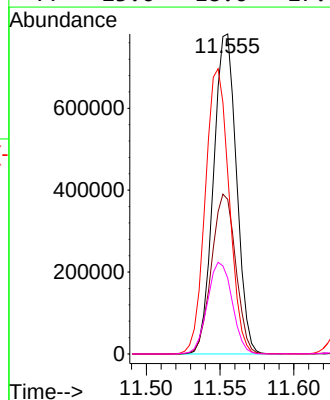
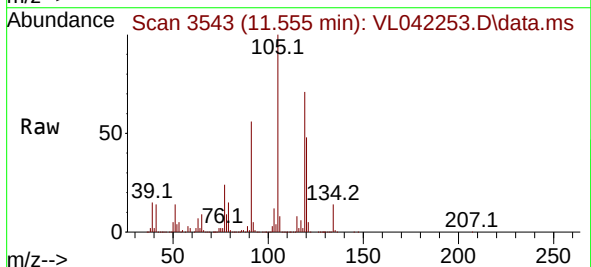
Ion Ratio Lower Upper

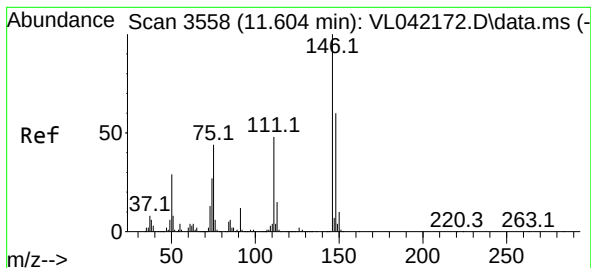
105 100

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

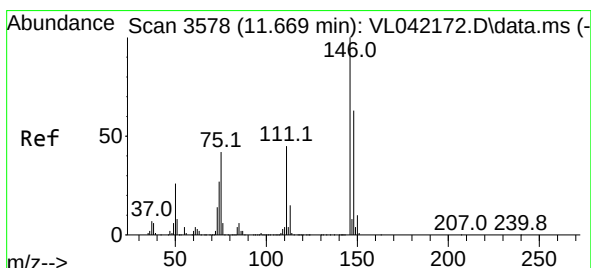
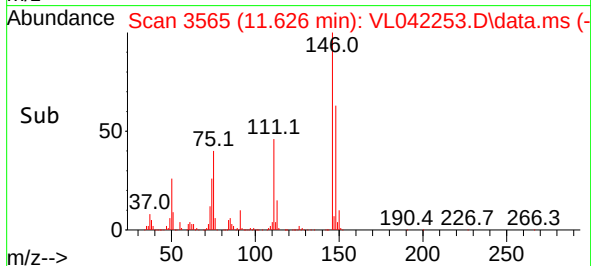
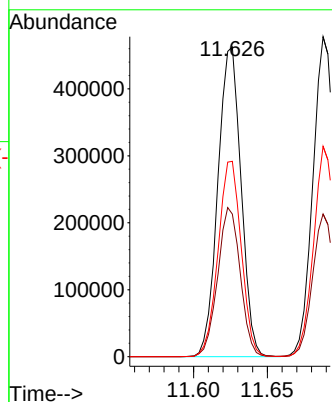
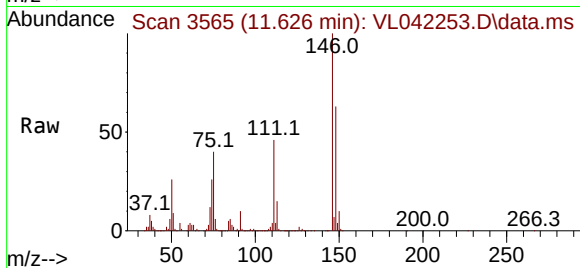
Tgt Ion:146 Resp: 505824

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

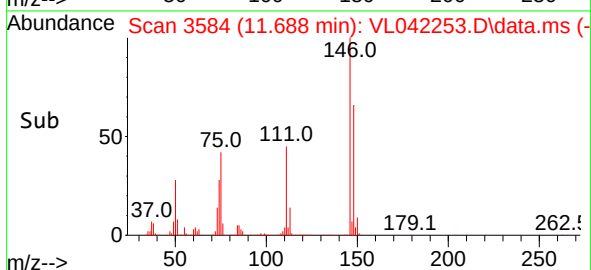
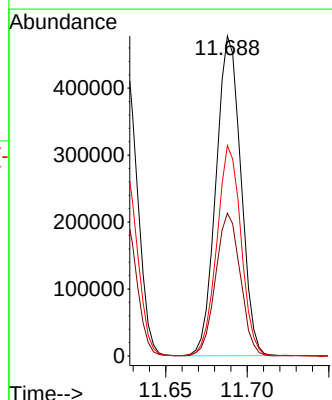
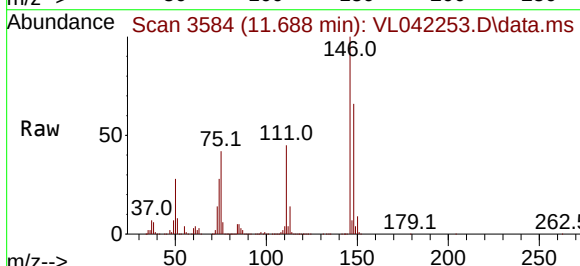
Tgt Ion:146 Resp: 505562

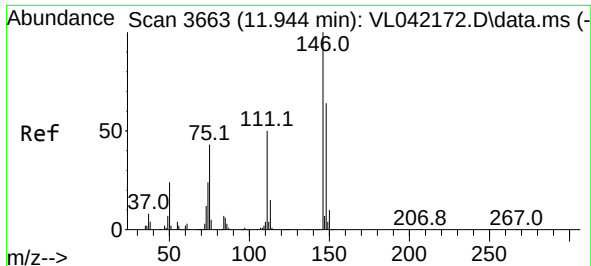
Ion Ratio Lower Upper

146 100

111 44.5 23.0 69.0

148 64.5 31.9 95.7

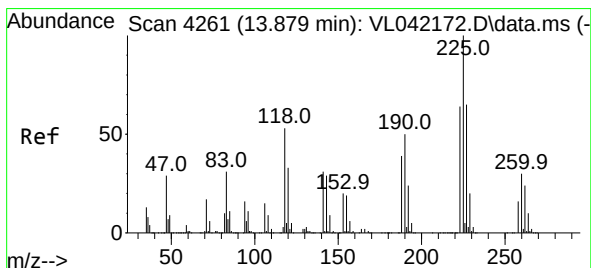
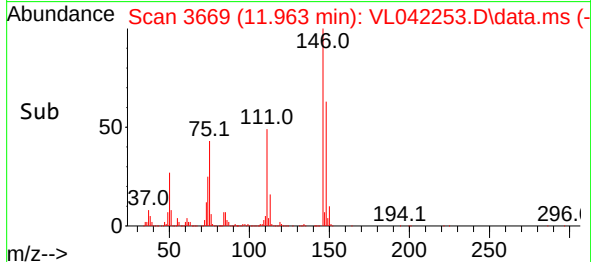
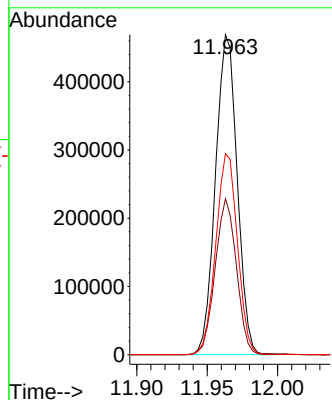
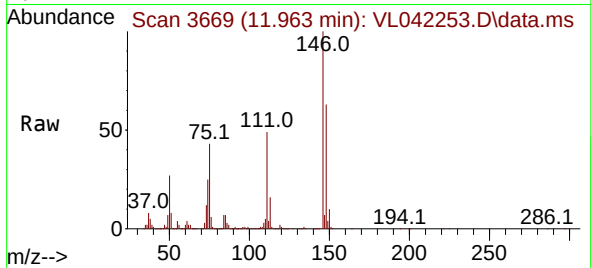




#77
1,2-Dichlorobenzene
Concen: 11.837 ppbv
RT: 11.963 min Scan# 3669
Delta R.T. 0.019 min
Lab File: VL042253.D
Acq: 08 Apr 2025 08:39

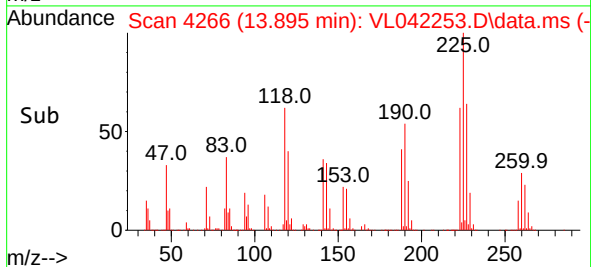
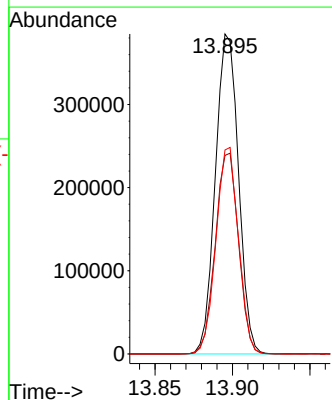
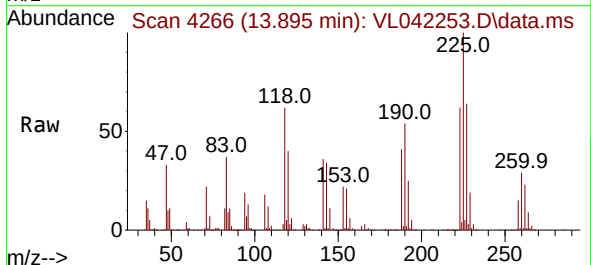
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

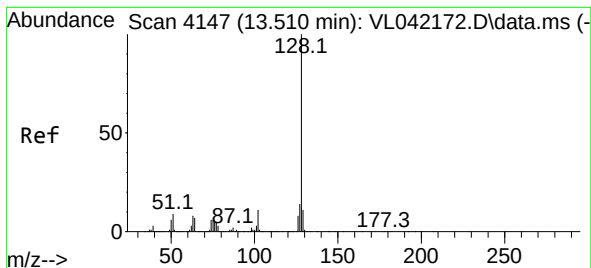
Tgt Ion:146 Resp: 503274
Ion Ratio Lower Upper
146 100
111 47.8 24.8 74.3
148 63.0 31.6 94.8



#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

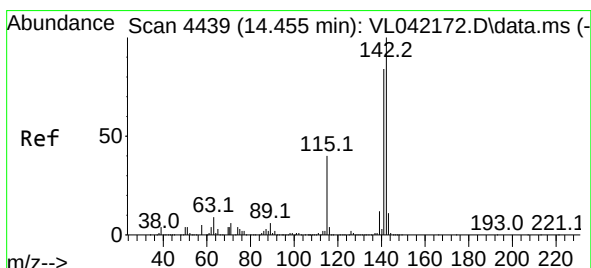
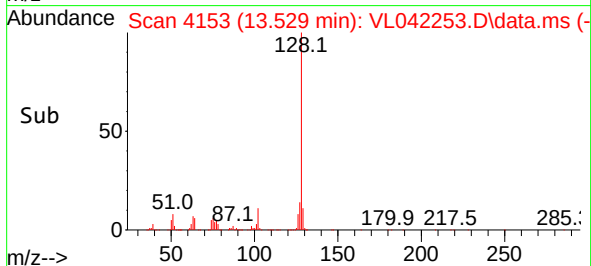
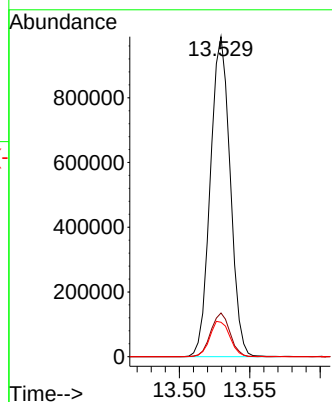
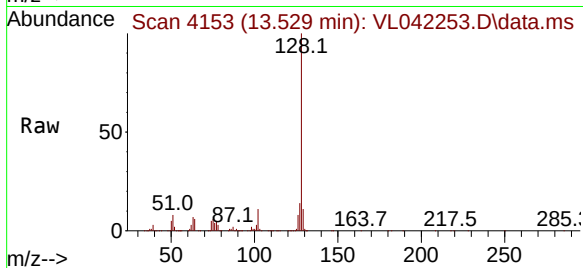
Tgt Ion:128 Resp: 967317

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

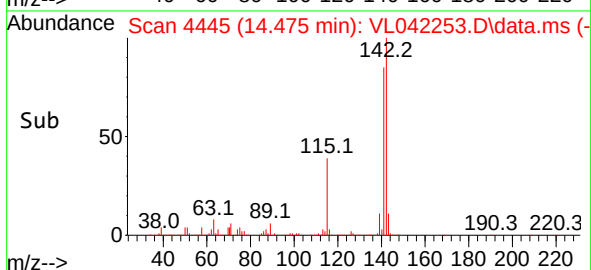
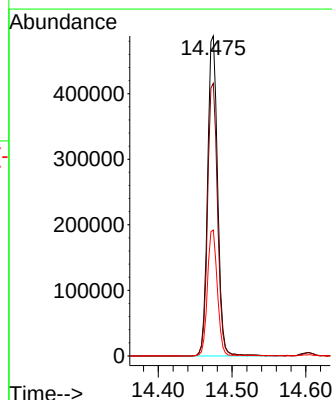
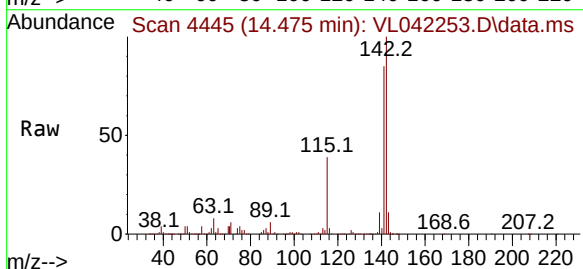
Tgt Ion:142 Resp: 457943

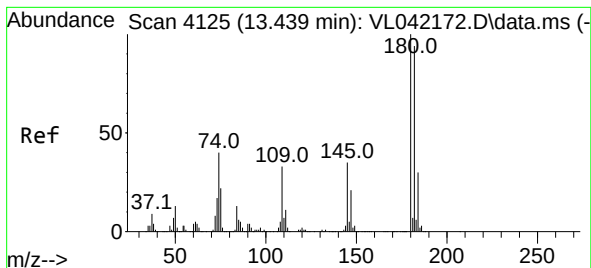
Ion Ratio Lower Upper

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

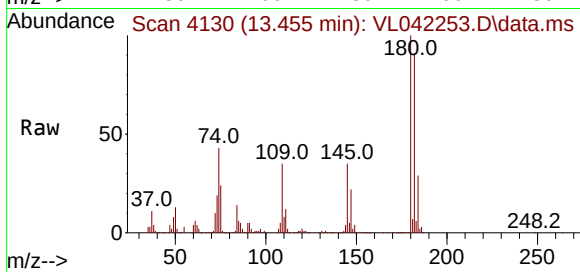
Acq: 08 Apr 2025 08:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010



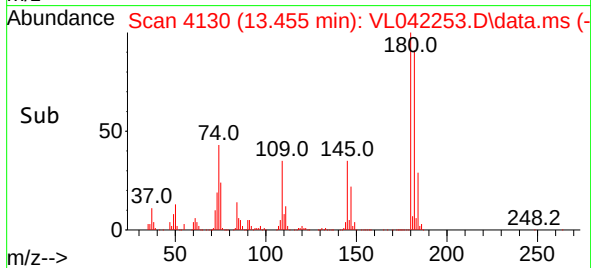
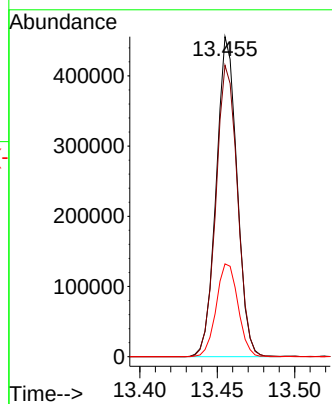
Tgt Ion:180 Resp: 425466

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

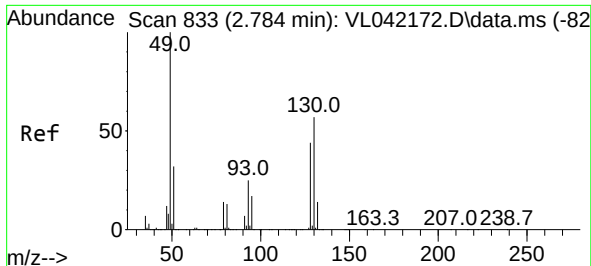
Quant Time: Apr 09 01:51:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

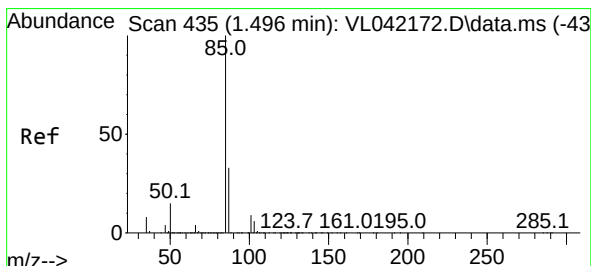
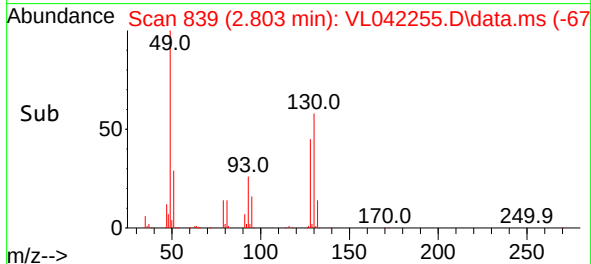
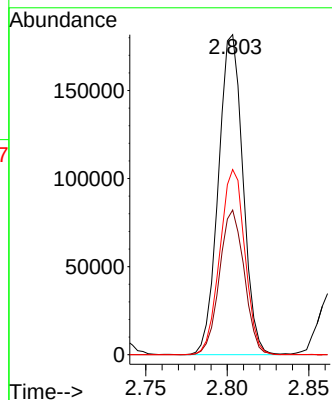
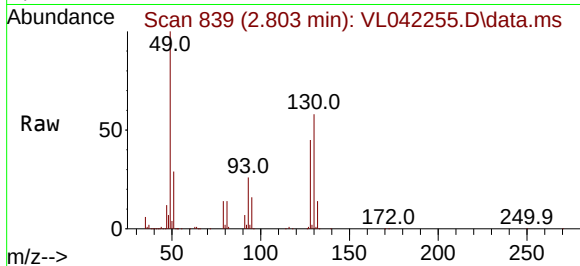




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.803 min Scan# 81
 Delta R.T. 0.019 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

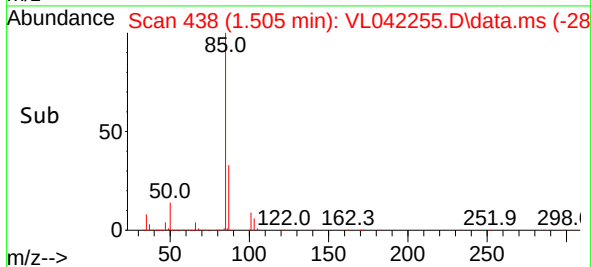
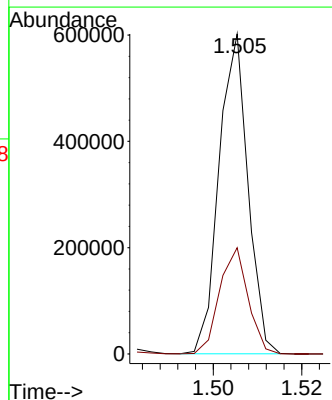
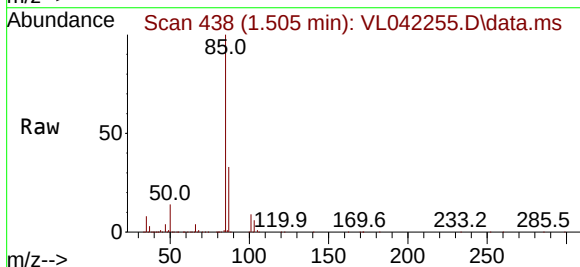
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0408ABS01

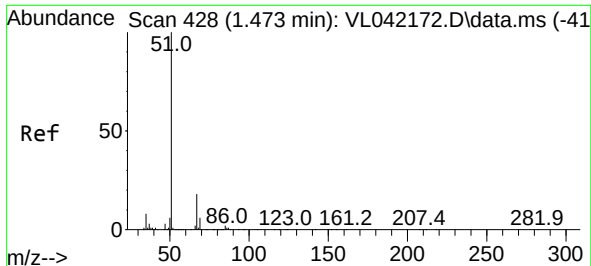
Tgt Ion: 49 Resp: 190420
 Ion Ratio Lower Upper
 49 100
 128 45.4 22.9 68.5
 130 58.9 28.8 86.4



#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

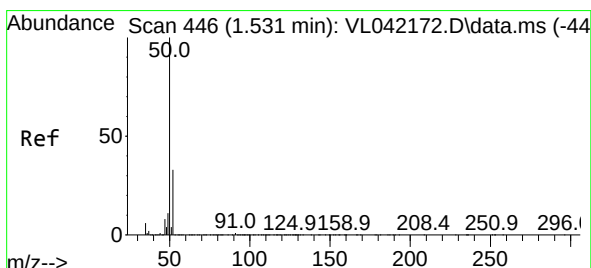
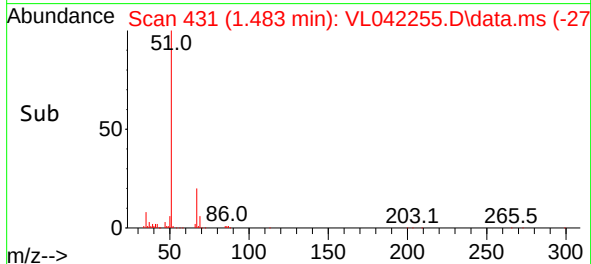
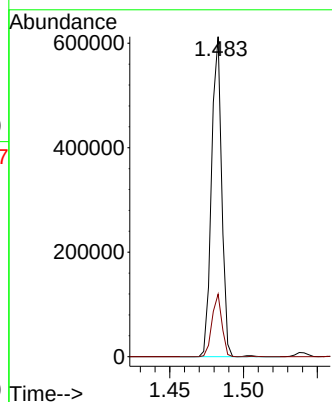
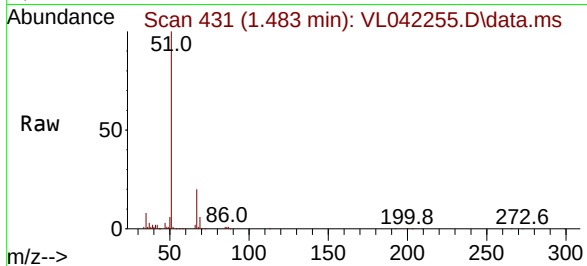




#3
 Chlorodifluoromethane
 Concen: 10.196 ppbv
 RT: 1.483 min Scan# 41
 Delta R.T. 0.010 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

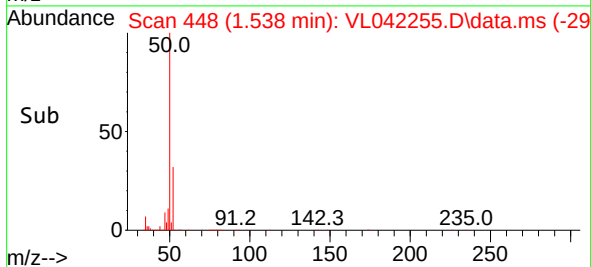
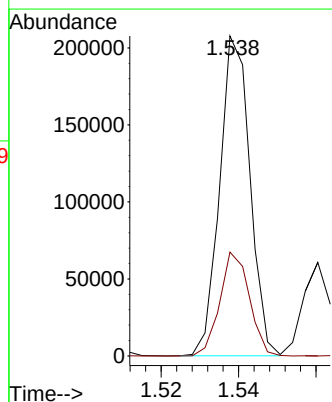
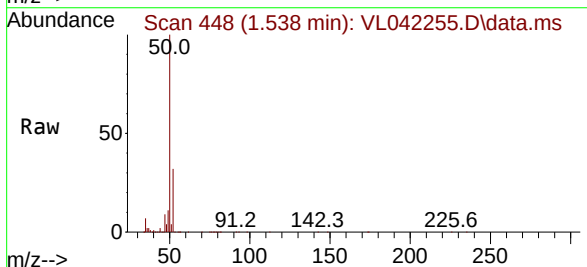
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0408ABS01

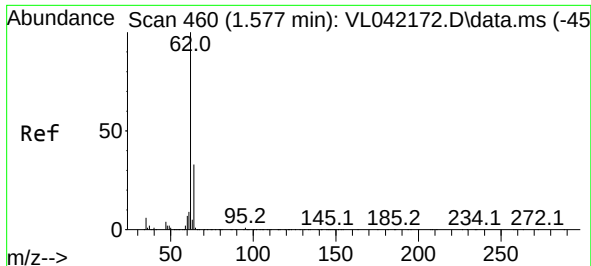
Tgt Ion: 51 Resp: 292844
 Ion Ratio Lower Upper
 51 100
 67 19.0 15.0 22.6



#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

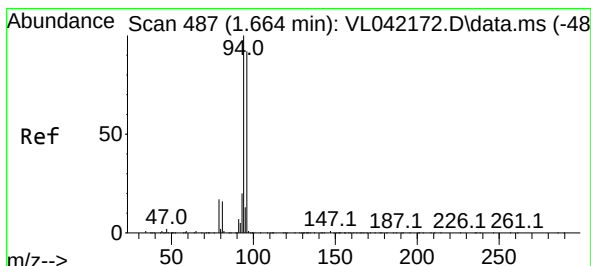
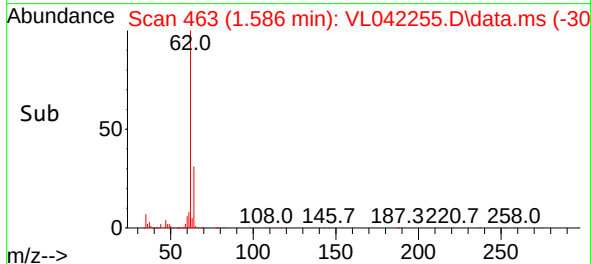
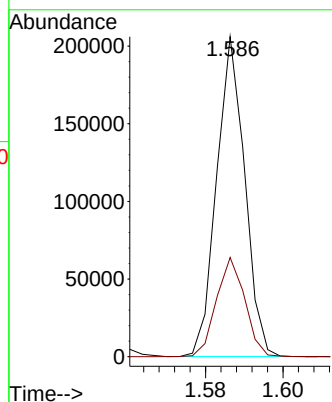
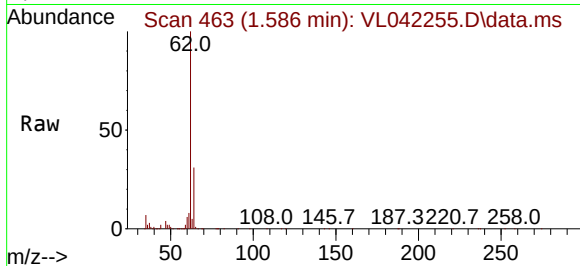




#5
 Vinyl Chloride
 Concen: 8.530 ppbv
 RT: 1.586 min Scan# 40
 Delta R.T. 0.010 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

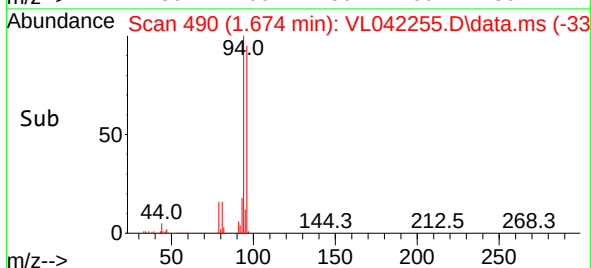
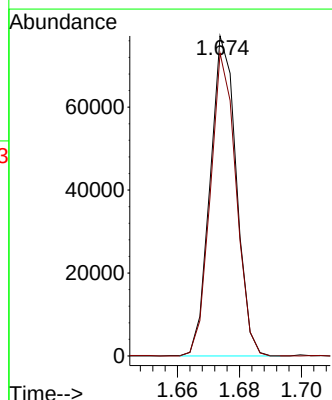
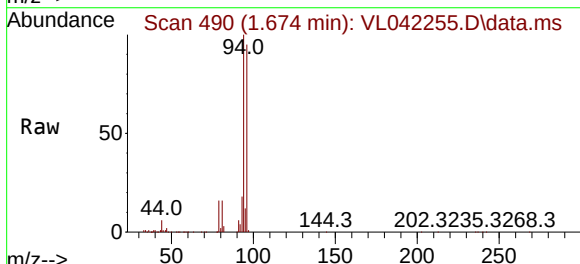
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0408ABS01

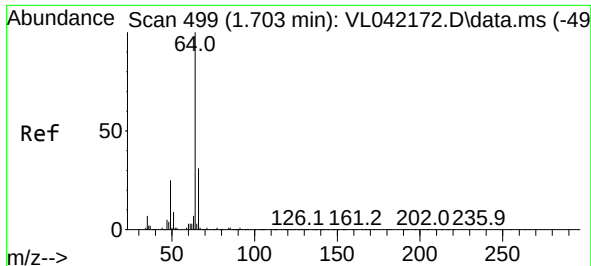
Tgt Ion: 62 Resp: 103863
 Ion Ratio Lower Upper
 62 100
 64 30.9 26.6 40.0



#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

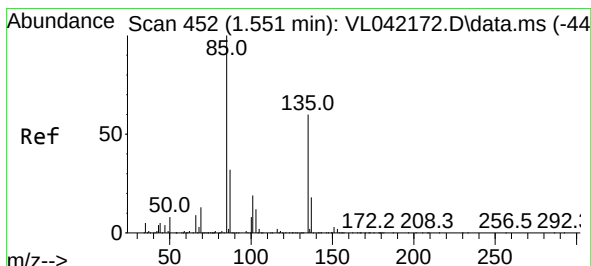
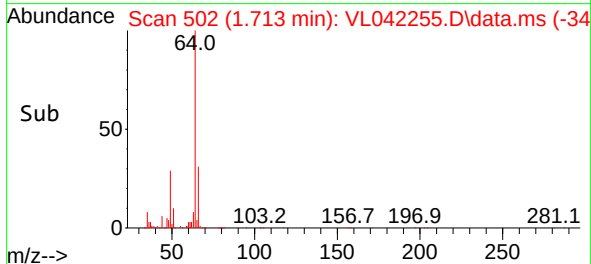
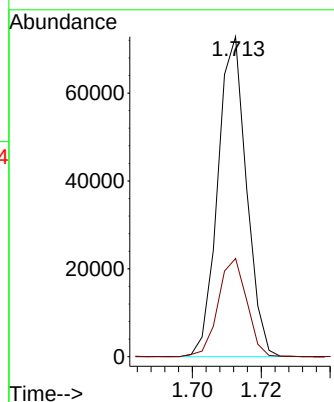
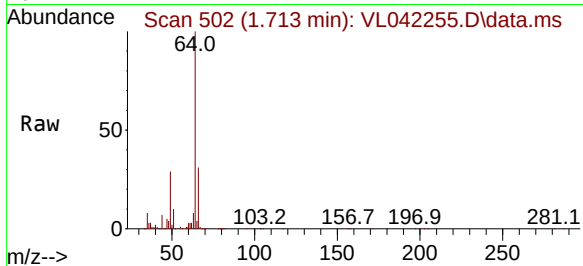




#7
Chloroethane
Concen: 9.161 ppbv
RT: 1.713 min Scan# 50
Delta R.T. 0.010 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

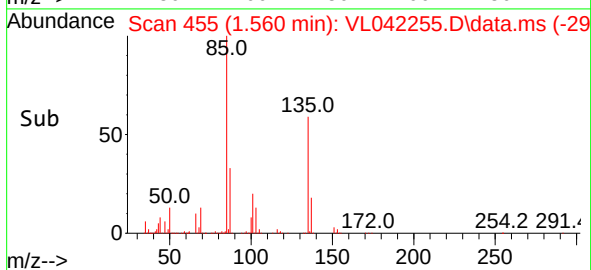
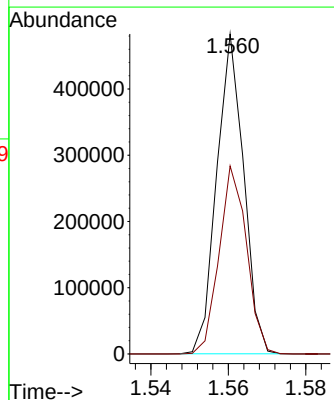
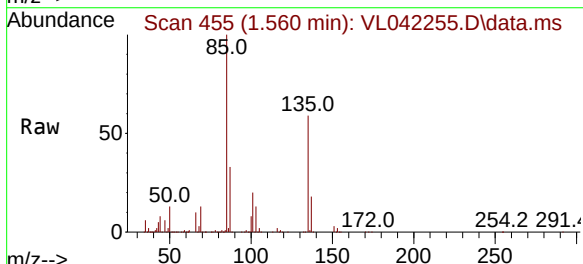
Instrument :
MSVOA_1
ClientSampleId :
VL0408ABS01

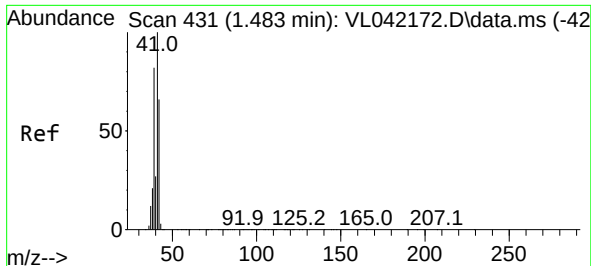
Tgt Ion: 64 Resp: 42251
Ion Ratio Lower Upper
64 100
66 30.7 25.2 37.8



#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 :

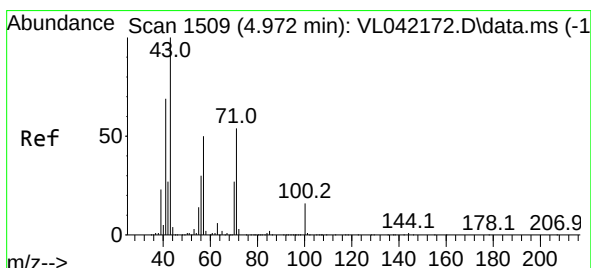
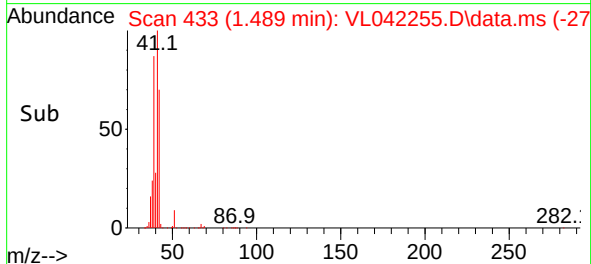
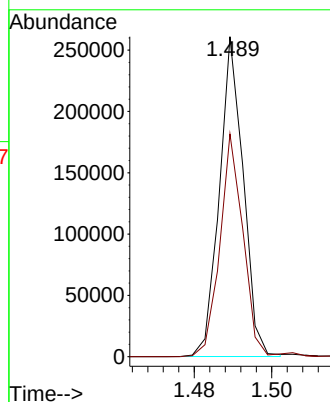
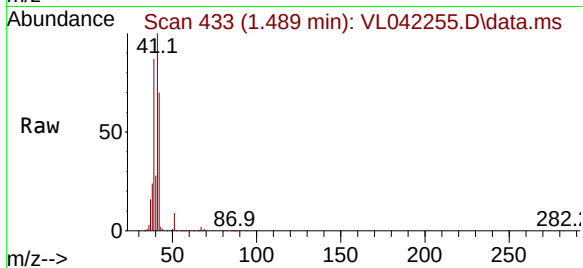
VL0408ABS01

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

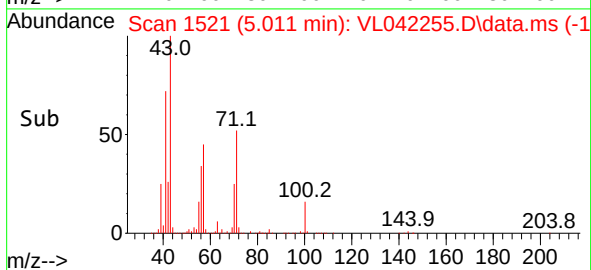
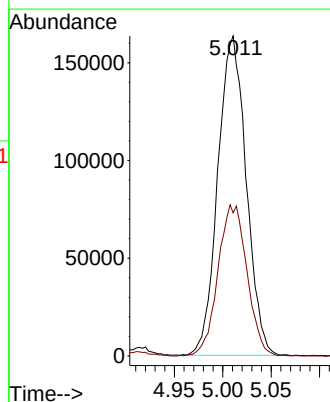
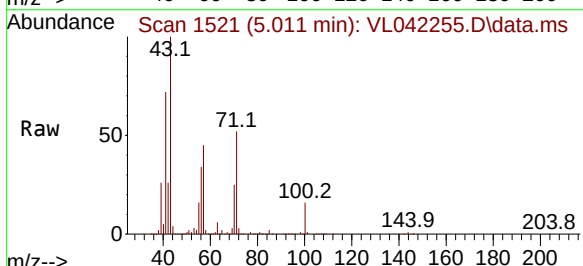
Acq: 08 Apr 2025 10:05

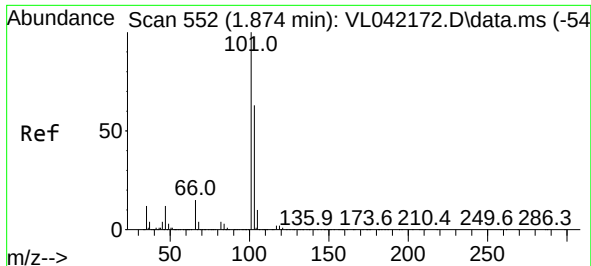
Tgt Ion: 43 Resp: 333061

Ion Ratio Lower Upper

43 100

57 48.5 39.4 59.2

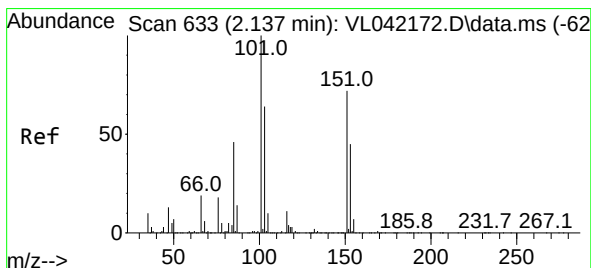
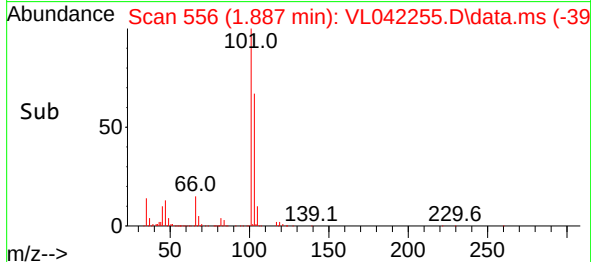
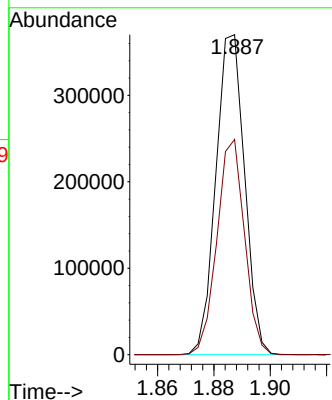
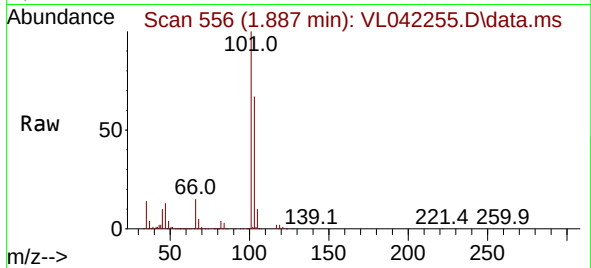




#11
Trichlorofluoromethane
Concen: 9.620 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.013 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

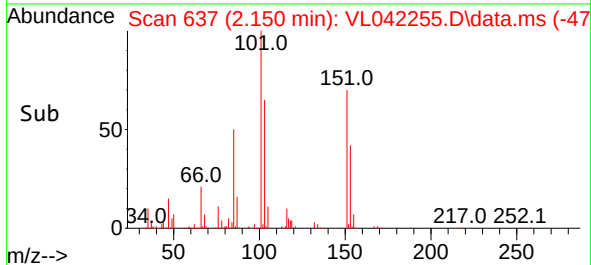
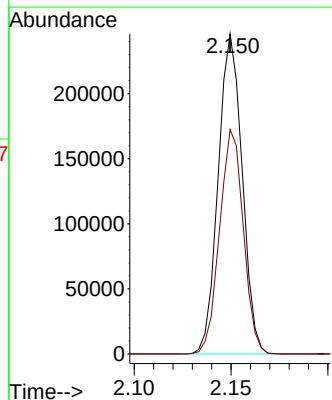
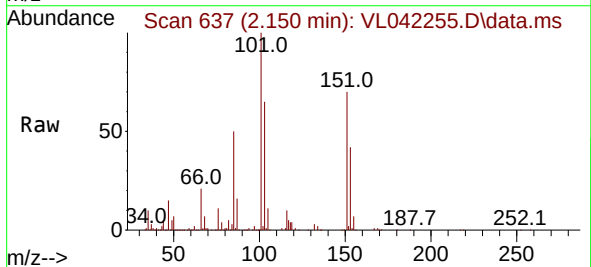
Instrument :
MSVOA_1
ClientSampleId :
VL0408ABS01

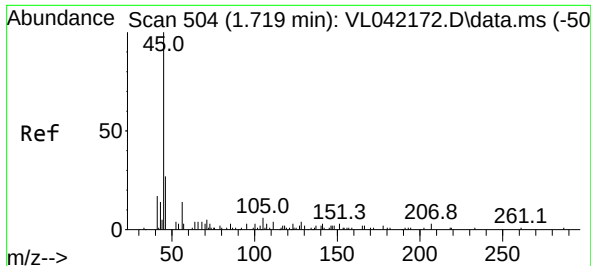
Tgt Ion:101 Resp: 263188
Ion Ratio Lower Upper
101 100
103 67.2 50.2 75.2



#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

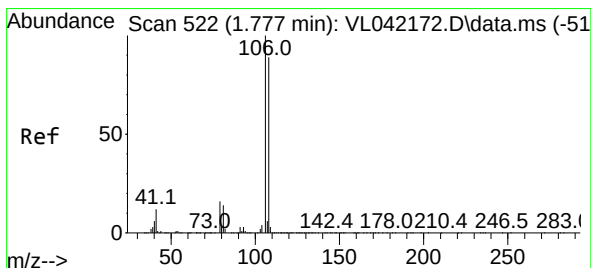
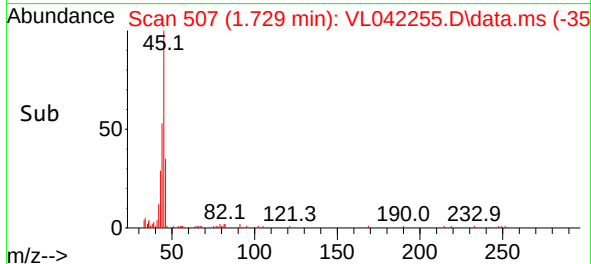
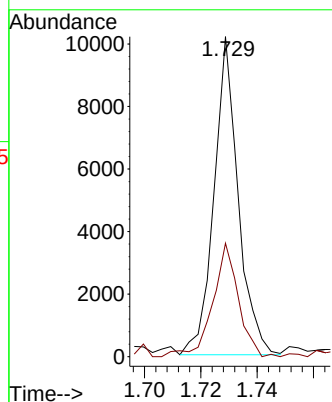
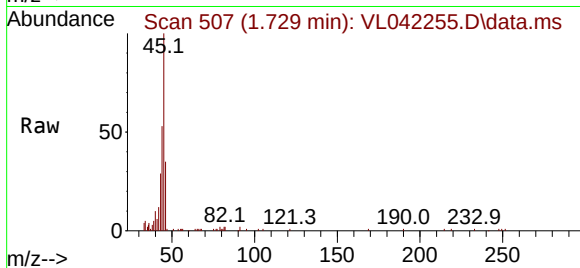




#13
Ethanol
Concen: 4.874 ppbv
RT: 1.729 min Scan# 504
Delta R.T. 0.010 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

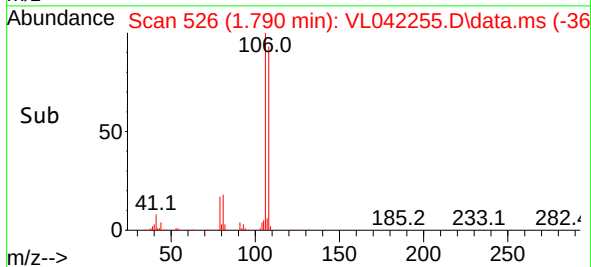
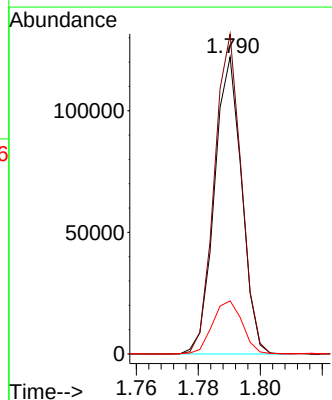
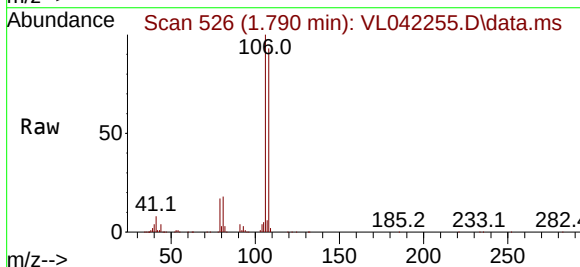
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01

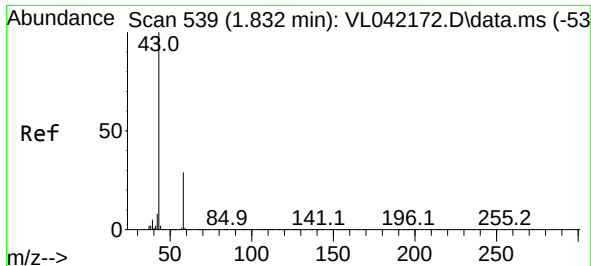
Tgt Ion: 45 Resp: 6066
Ion Ratio Lower Upper
45 100
46 38.1 20.2 80.8



#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 :

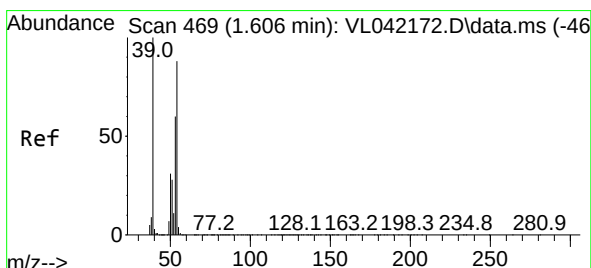
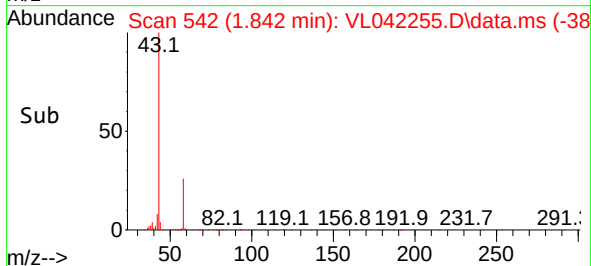
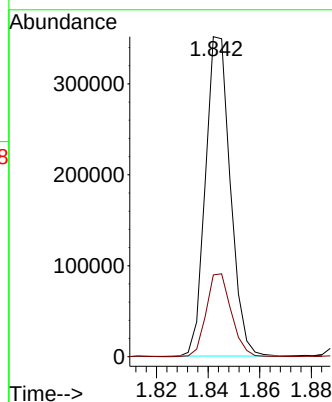
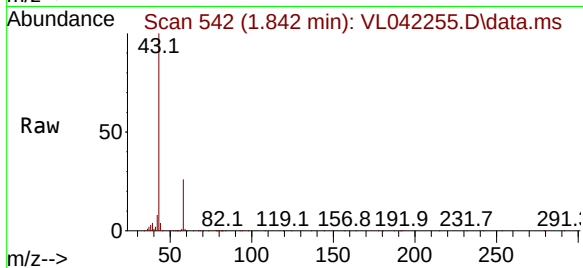
VL0408ABS01

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

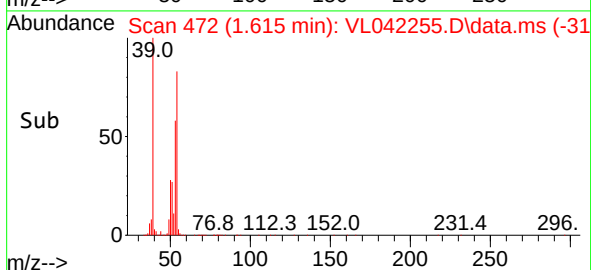
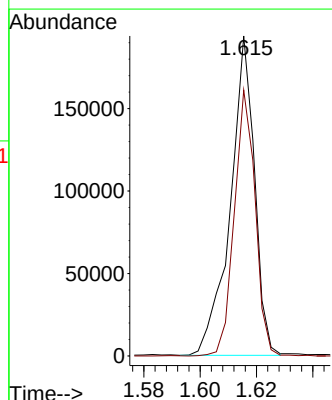
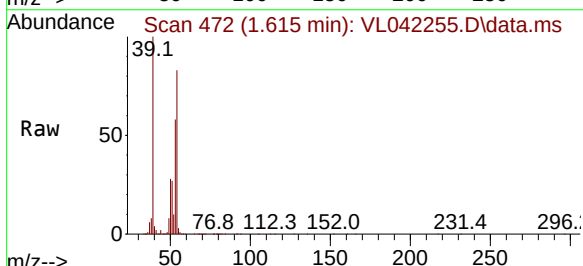
Acq: 08 Apr 2025 10:05

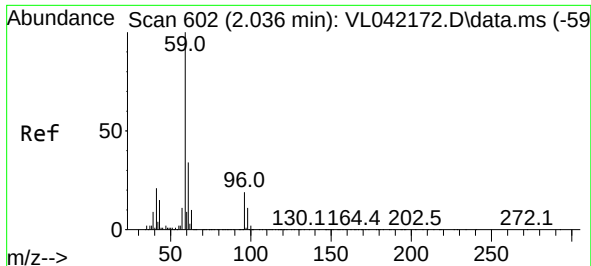
Tgt Ion: 39 Resp: 115796

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 :

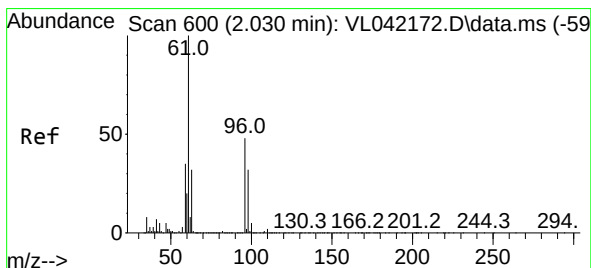
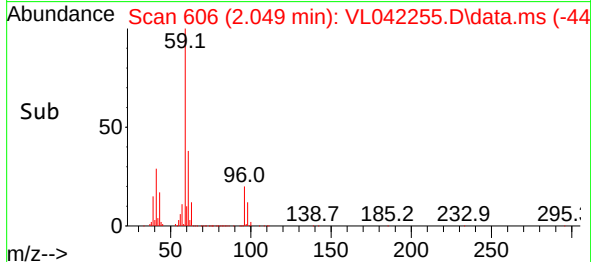
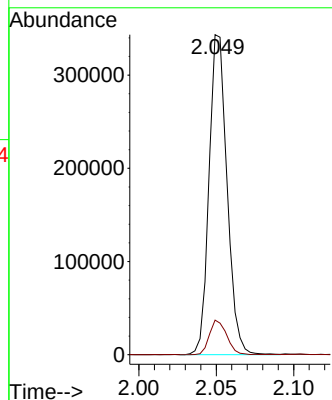
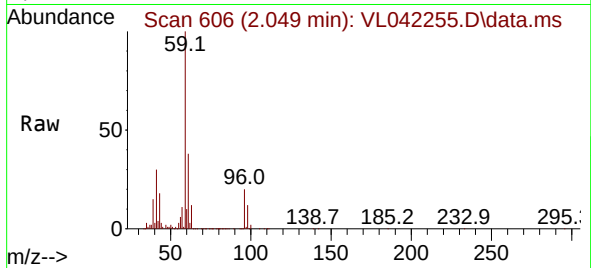
VL0408ABS01

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

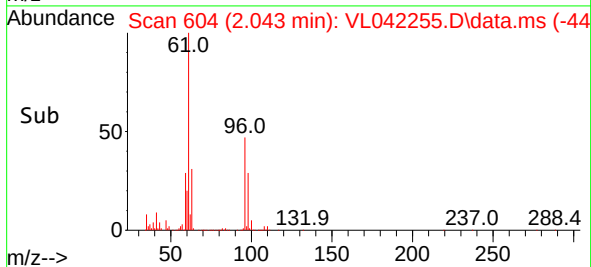
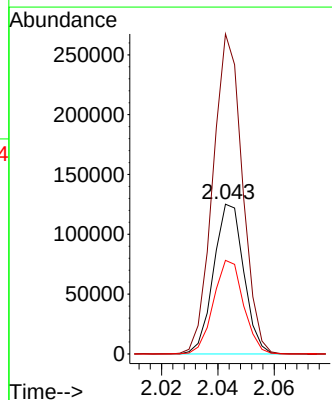
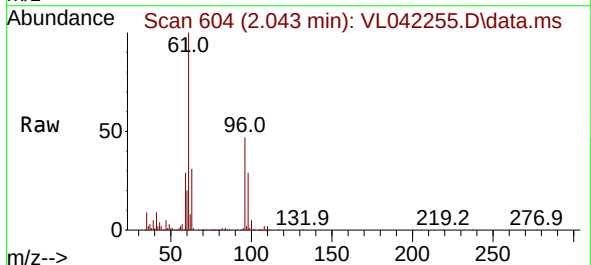
Tgt Ion: 96 Resp: 93164

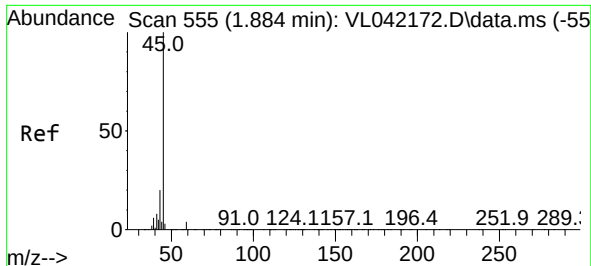
Ion Ratio Lower Upper

96 100

61 213.3 167.6 251.4

98 62.4 53.5 80.3

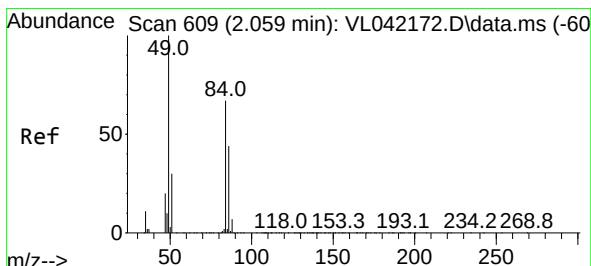
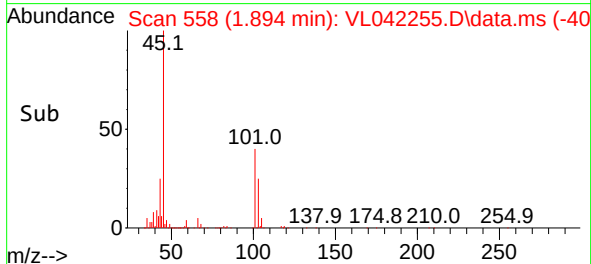
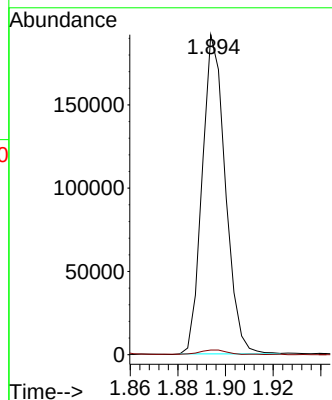
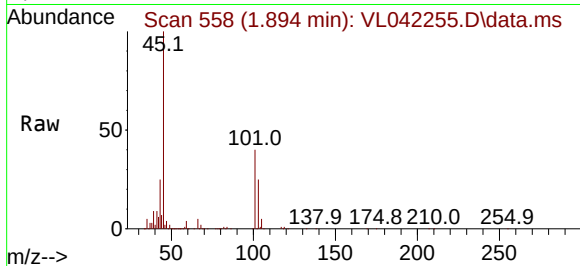




#19
Isopropyl Alcohol
Concen: 8.613 ppbv
RT: 1.894 min Scan# 511
Delta R.T. 0.010 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

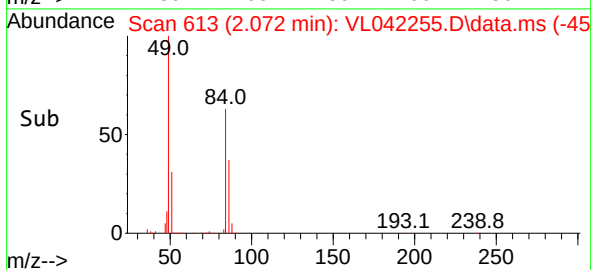
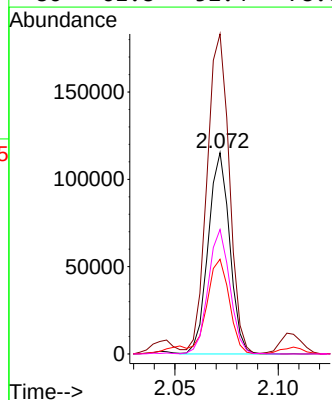
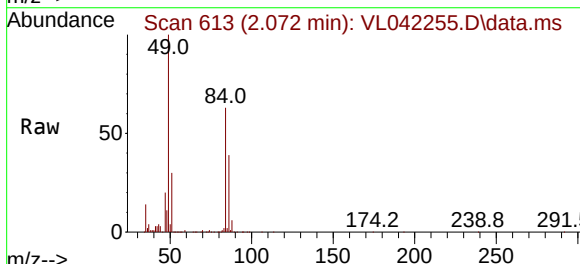
Instrument :
MSVOA_1
ClientSampleId :
VL0408ABS01

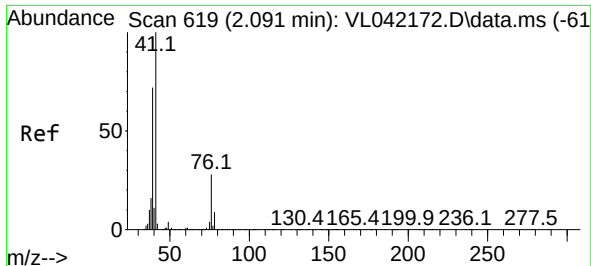
Tgt Ion: 45 Resp: 129418
Ion Ratio Lower Upper
45 100
58 2.1 36.9 55.3#



#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

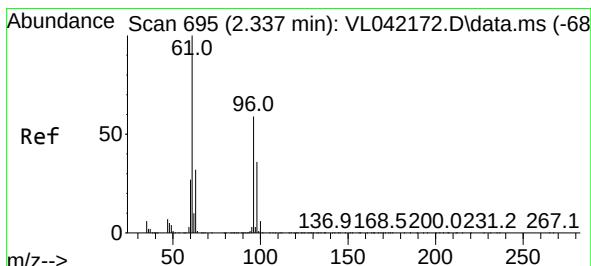
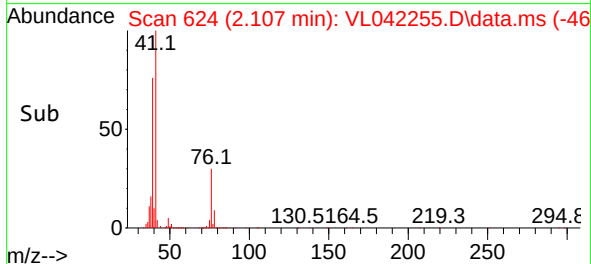
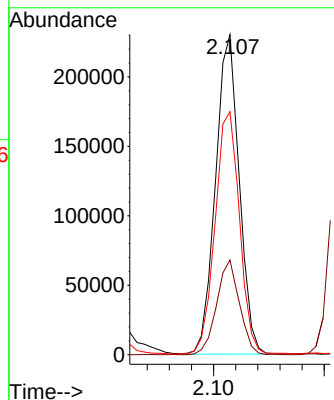
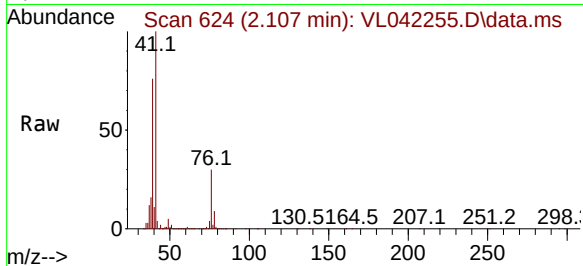




#21
 Allyl Chloride
 Concen: 9.105 ppbv
 RT: 2.107 min Scan# 61
 Delta R.T. 0.016 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

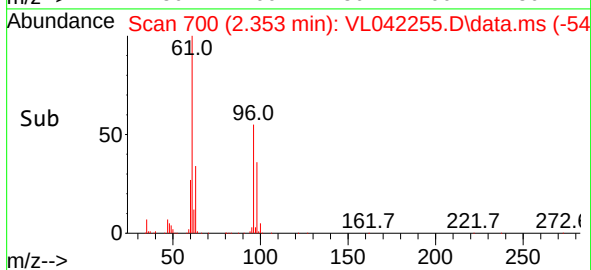
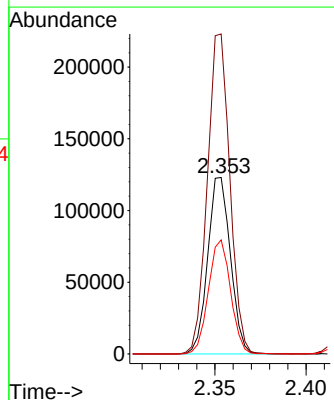
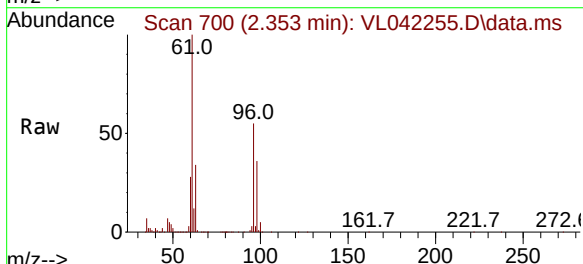
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0408ABS01

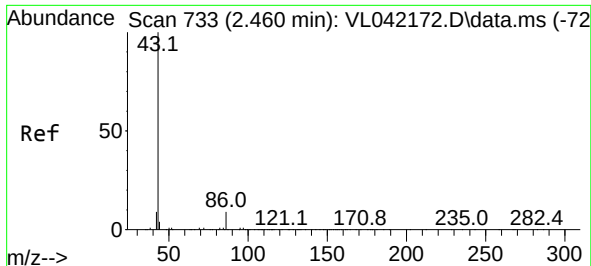
Tgt Ion: 41 Resp: 171013
 Ion Ratio Lower Upper
 41 100
 76 28.5 24.1 36.1
 39 77.8 61.1 91.7



#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

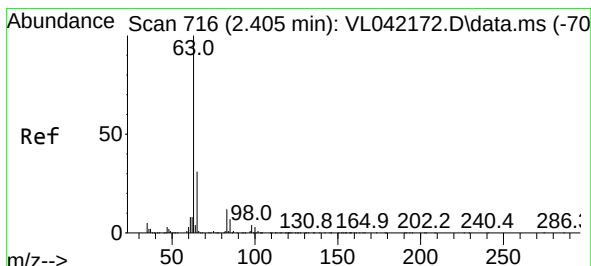
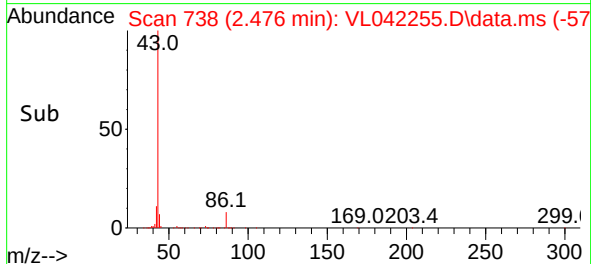
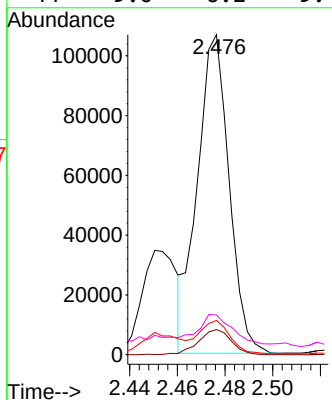
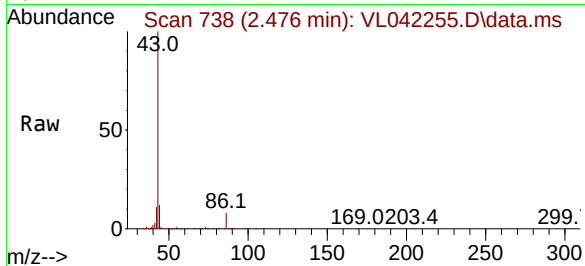




#23
 Vinyl Acetate
 Concen: 8.549 ppbv
 RT: 2.476 min Scan# 71
 Delta R.T. 0.016 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

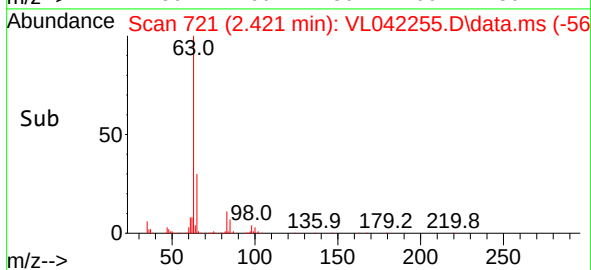
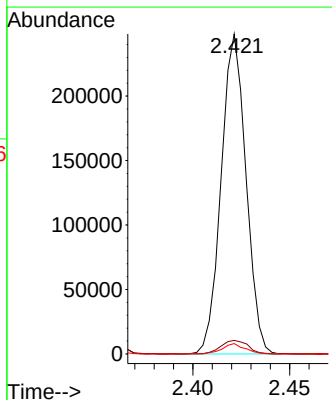
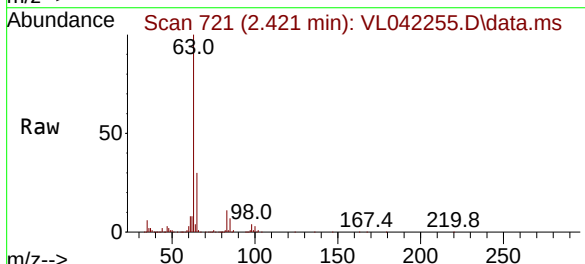
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0408ABS01

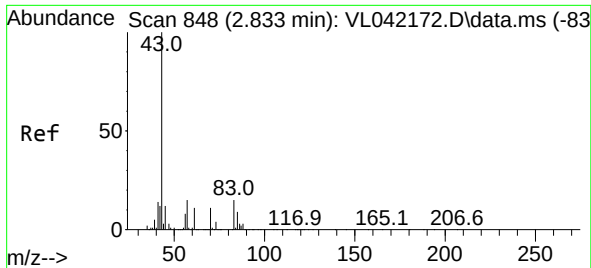
Tgt Ion: 43	Resp: 98533
Ion Ratio	Lower Upper
43 100	
86 7.9	5.5 8.3
42 9.9	8.6 13.0
44 9.0	6.2 9.4



#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

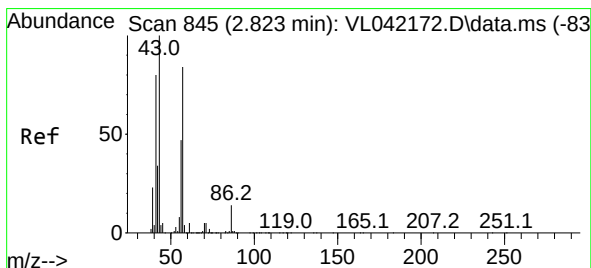
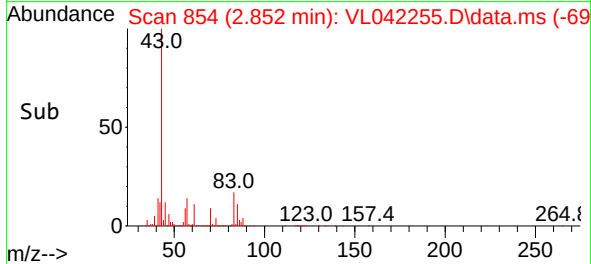
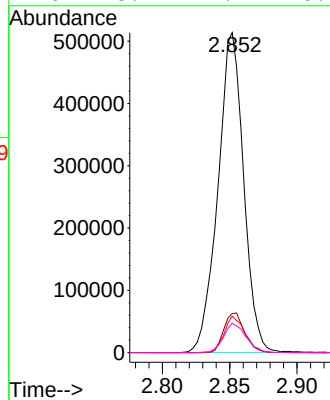
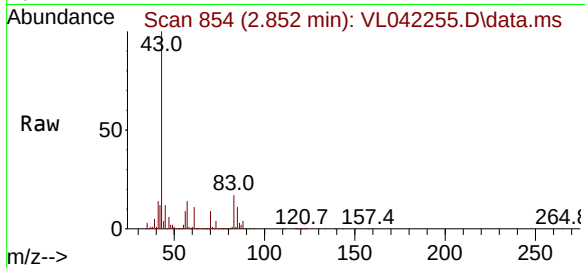




#25
Ethyl Acetate
Concen: 9.854 ppbv
RT: 2.852 min Scan# 811
Delta R.T. 0.019 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

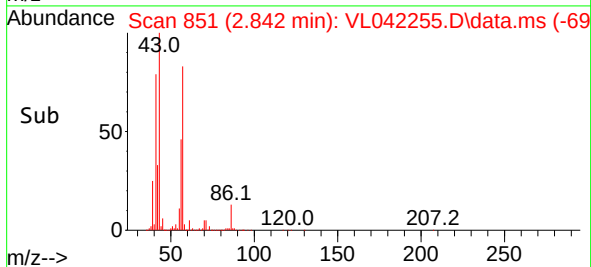
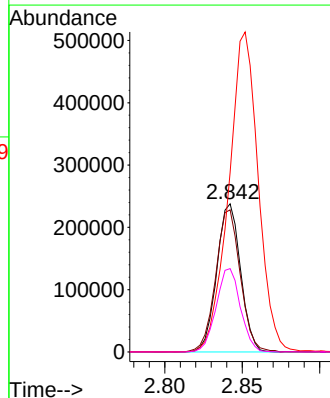
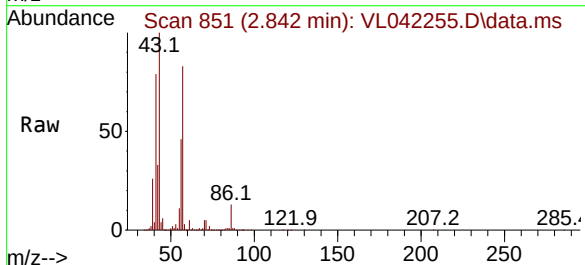
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01

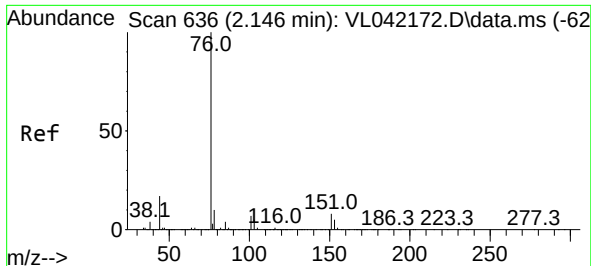
Tgt Ion:	43	Resp:	681132
Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.2	12.2
61	9.2	7.3	10.9
70	8.1	7.2	10.8



#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

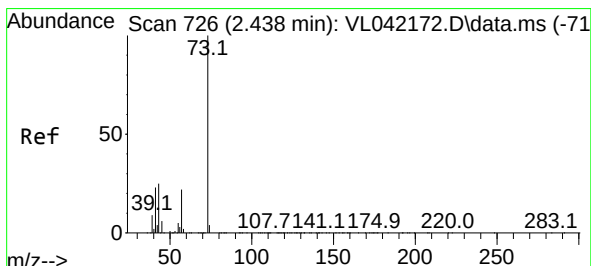
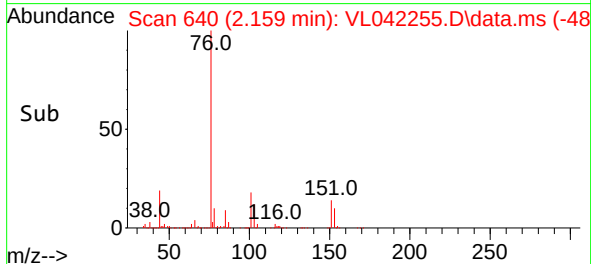
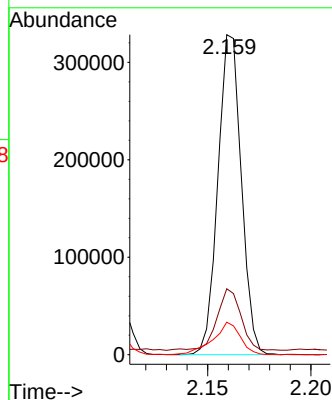
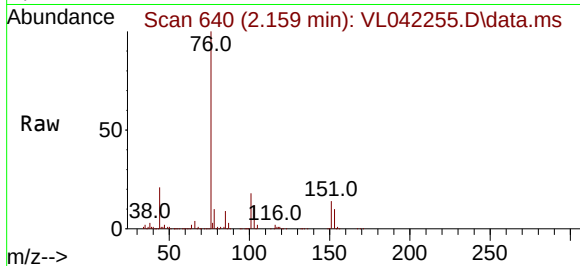




#27
Carbon Disulfide
Concen: 9.046 ppbv
RT: 2.159 min Scan# 640
Delta R.T. 0.013 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

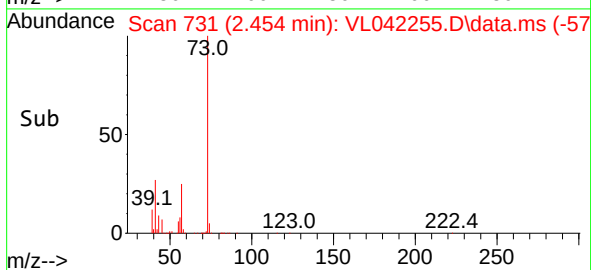
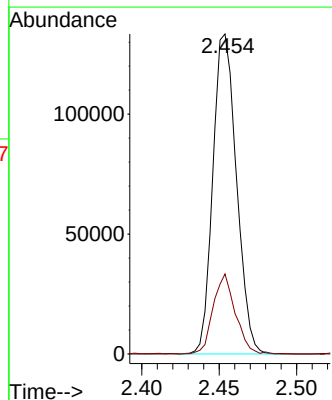
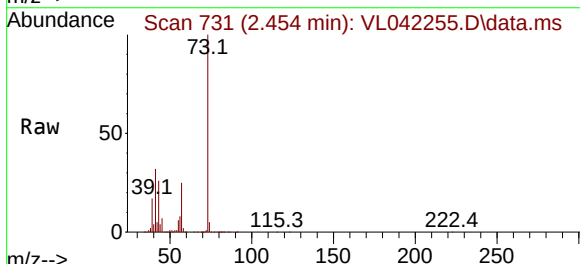
Instrument :
MSVOA_1
ClientSampleId :
VL0408ABS01

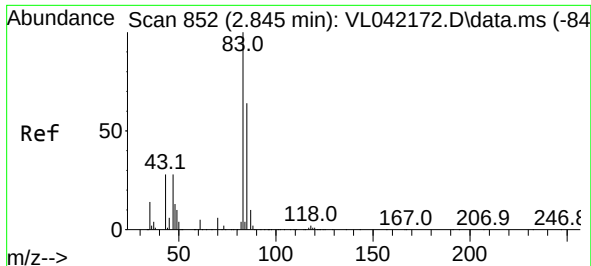
Tgt Ion: 76 Resp: 258972
Ion Ratio Lower Upper
76 100
44 19.1 14.7 22.1
78 11.7 9.3 13.9



#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

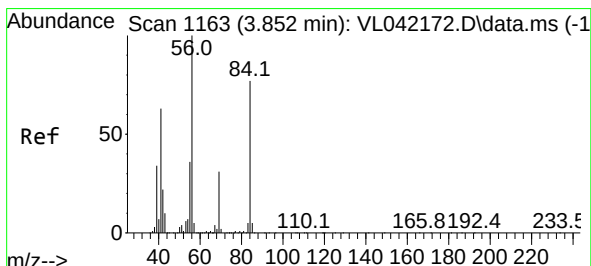
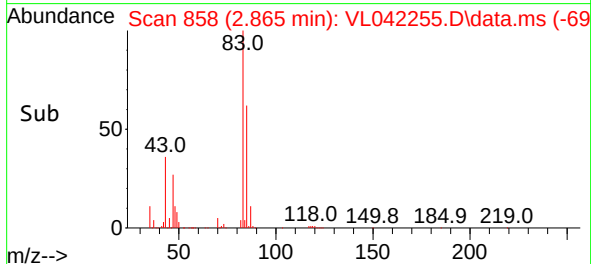
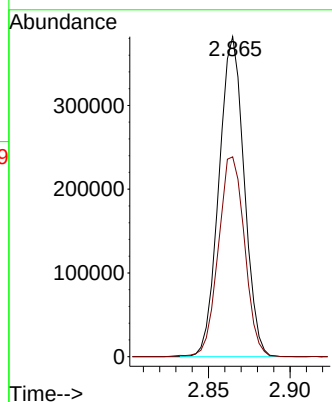
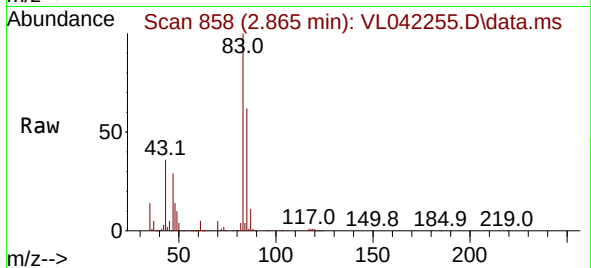




#29
Chloroform
Concen: 10.507 ppbv
RT: 2.865 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

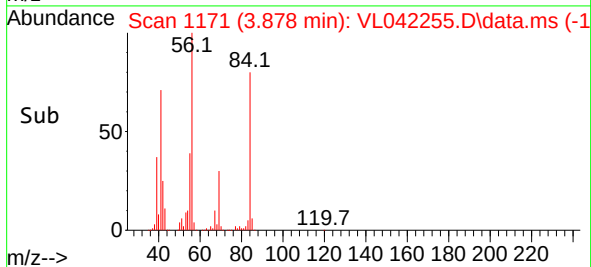
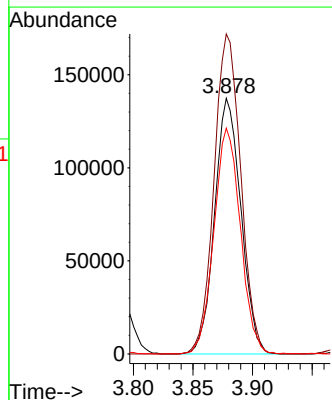
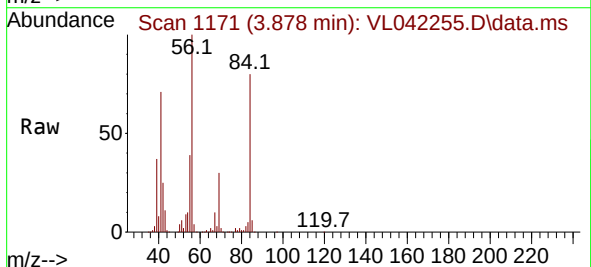
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01

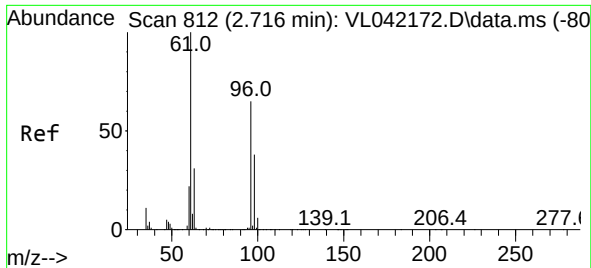
Tgt Ion: 83 Resp: 410522
Ion Ratio Lower Upper
83 100
85 62.4 51.4 77.2



#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

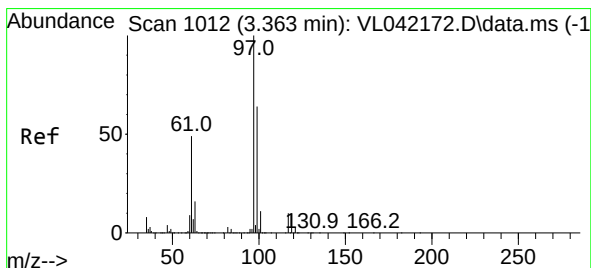
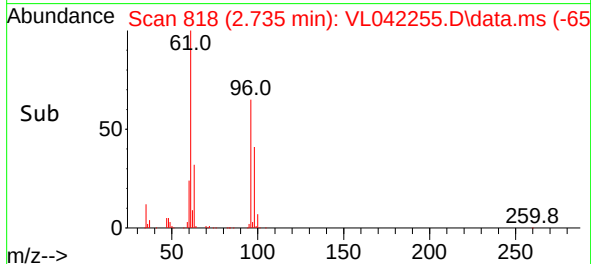
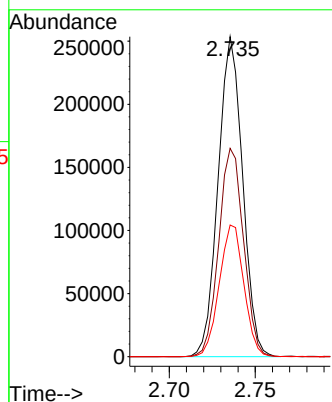
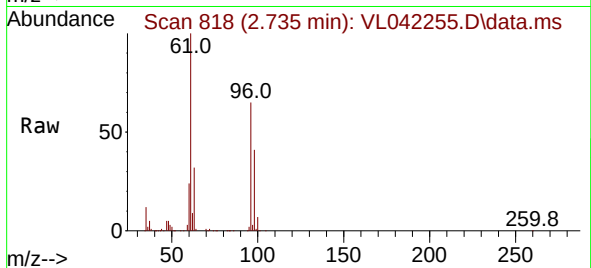




#31
 cis-1,2-Dichloroethene
 Concen: 9.268 ppbv
 RT: 2.735 min Scan# 812
 Delta R.T. 0.019 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

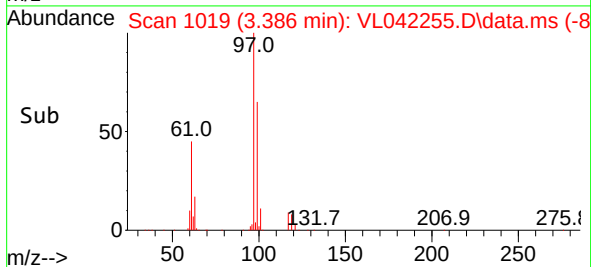
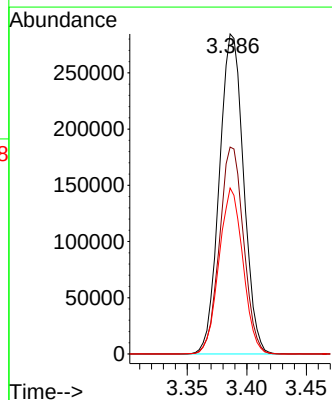
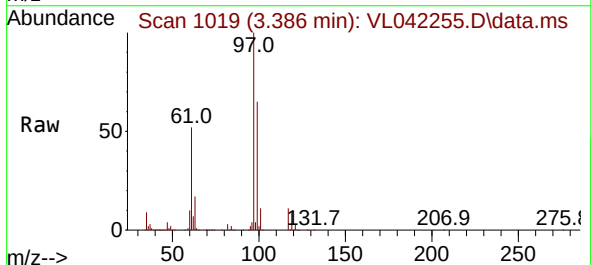
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0408ABS01

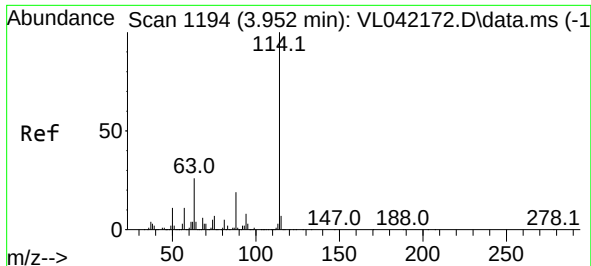
Tgt Ion: 61 Resp: 251202
 Ion Ratio Lower Upper
 61 100
 96 65.1 51.8 77.8
 98 41.2 30.6 46.0



#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_L

ClientSampleId :

VL0408ABS01

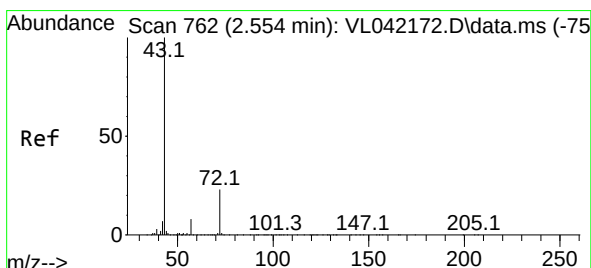
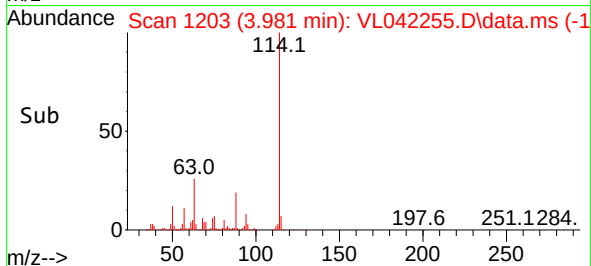
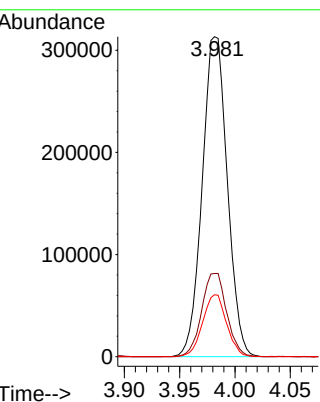
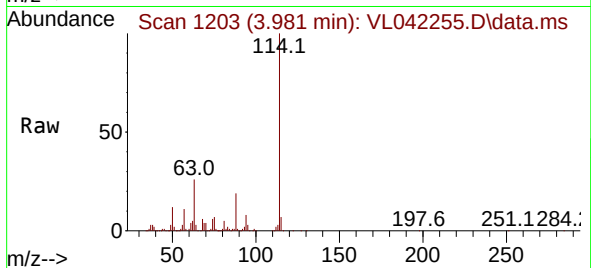
Tgt Ion:114 Resp: 494678

Ion Ratio Lower Upper

114 100

63 26.0 20.7 31.1

88 18.5 15.0 22.4



#34

2-Butanone

Concen: 10.575 ppbv

RT: 2.570 min Scan# 767

Delta R.T. 0.016 min

Lab File: VL042255.D

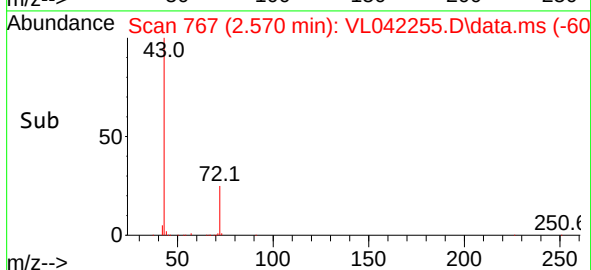
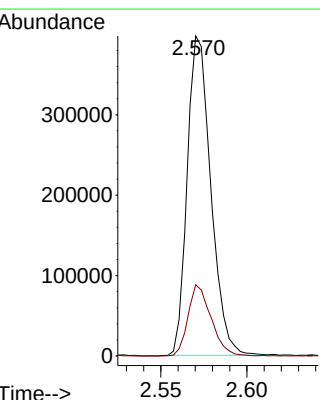
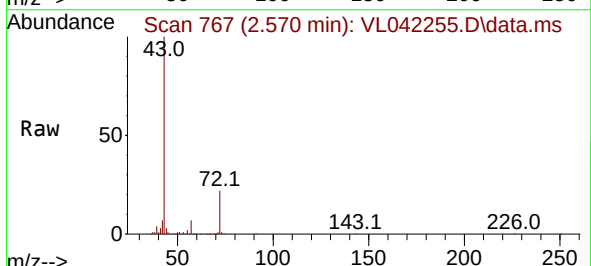
Acq: 08 Apr 2025 10:05

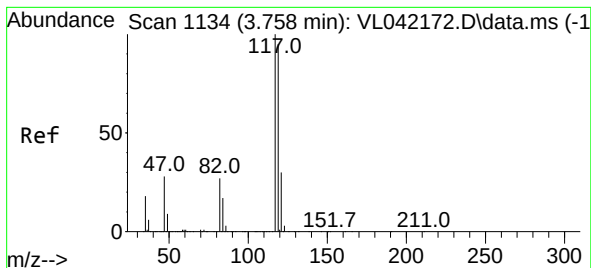
Tgt Ion: 43 Resp: 379327

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# 11

Delta R.T. 0.029 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Instrument :

MSVOA_L

ClientSampleId :

VL0408ABS01

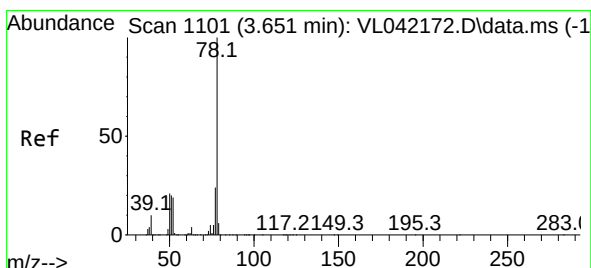
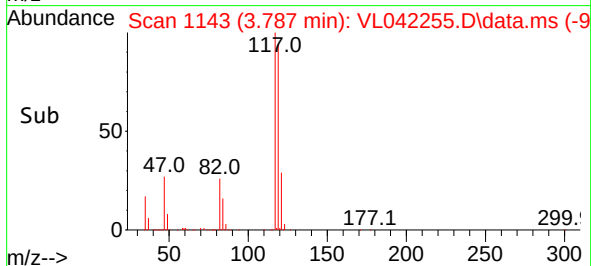
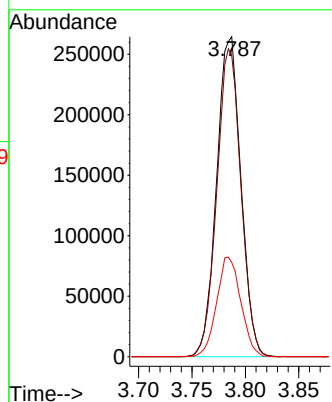
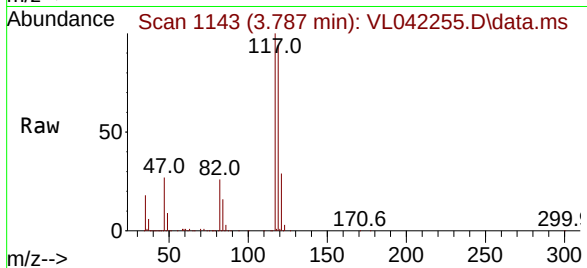
Tgt Ion:117 Resp: 418420

Ion Ratio Lower Upper

117 100

119 94.1 76.2 114.2

121 29.5 24.2 36.4



#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

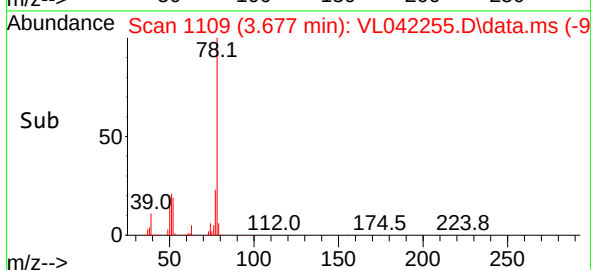
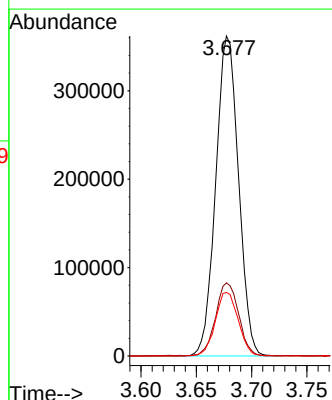
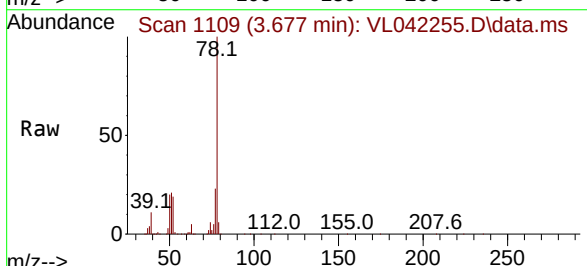
Tgt Ion: 78 Resp: 518095

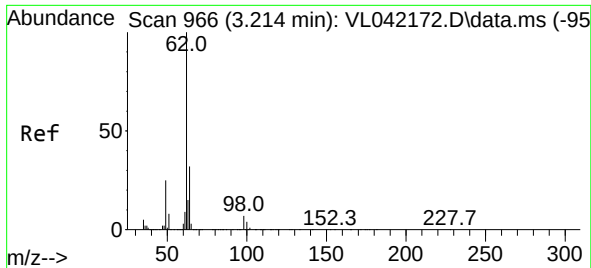
Ion Ratio Lower Upper

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 :

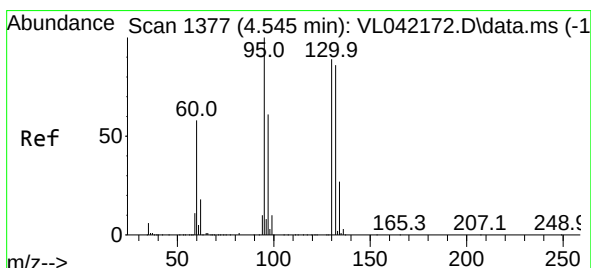
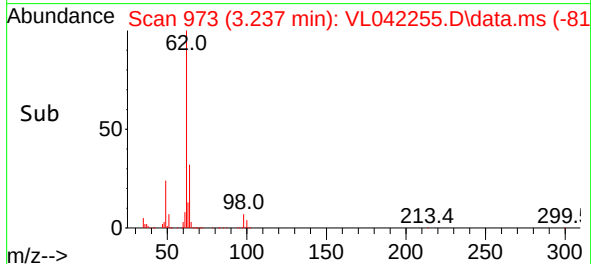
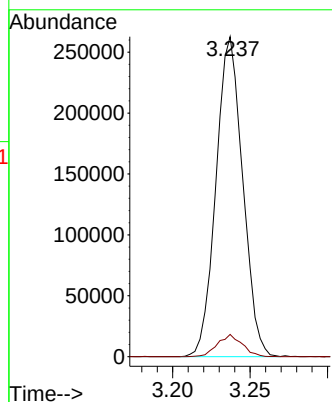
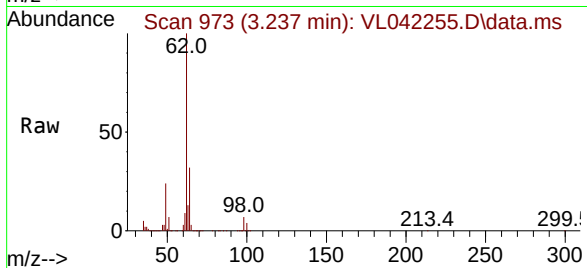
VL0408ABS01

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

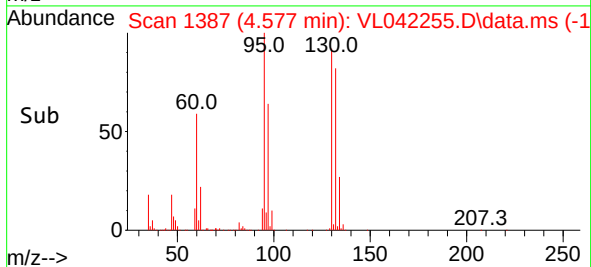
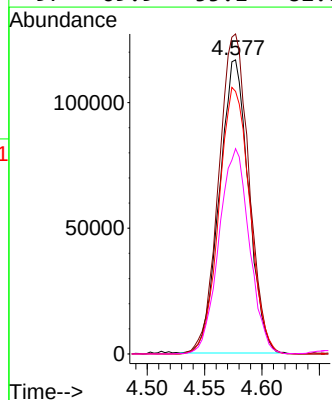
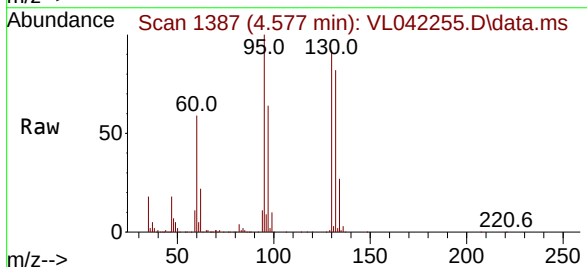
Ion Ratio Lower Upper

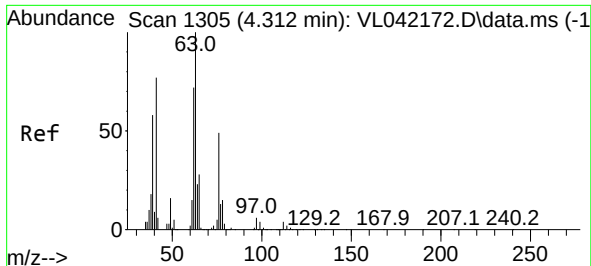
130 100

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

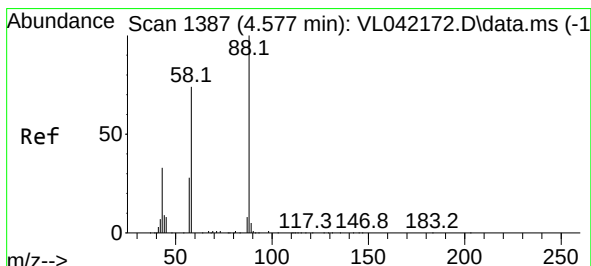
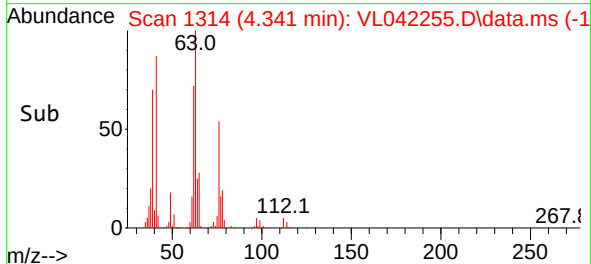
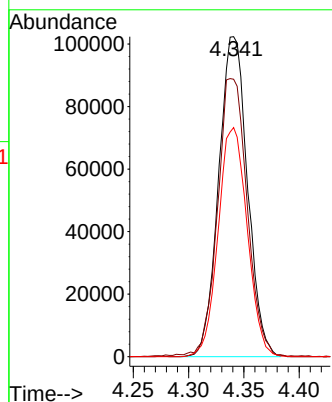
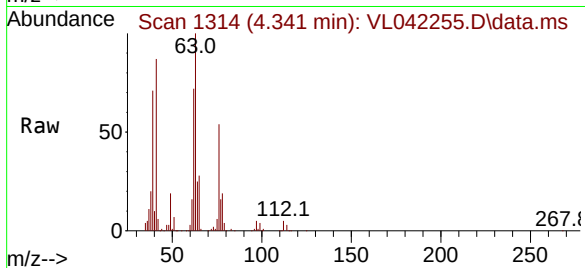
Tgt Ion: 63 Resp: 185795

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

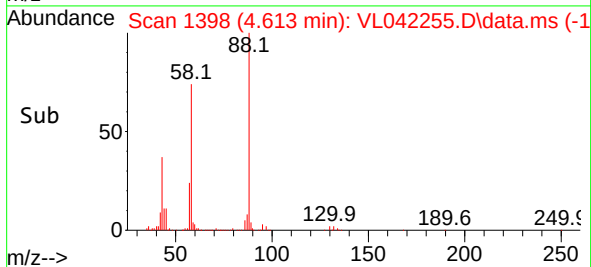
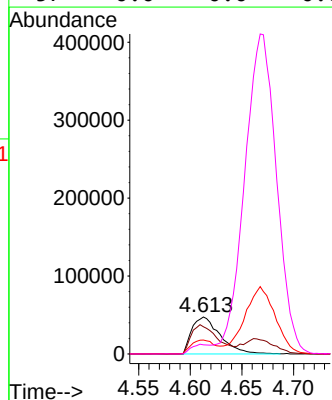
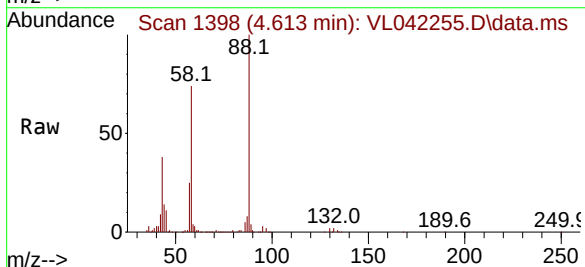
Ion Ratio Lower Upper

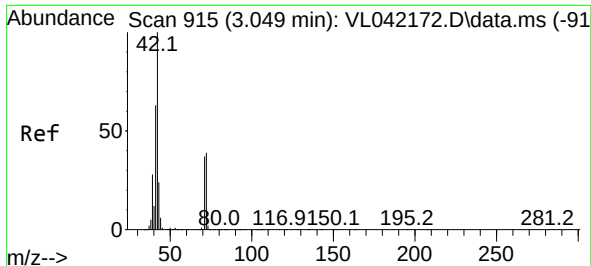
88 100

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# 91

Delta R.T. 0.023 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Instrument :

MSVOA_L

ClientSampleId :

VL0408ABS01

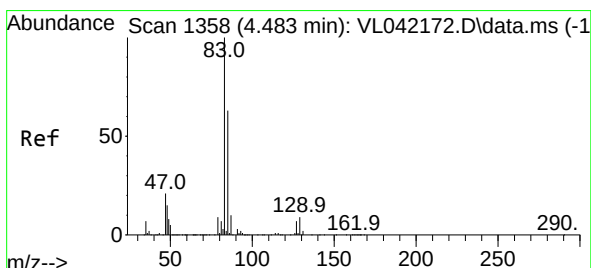
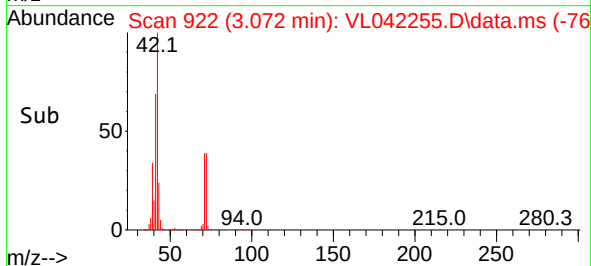
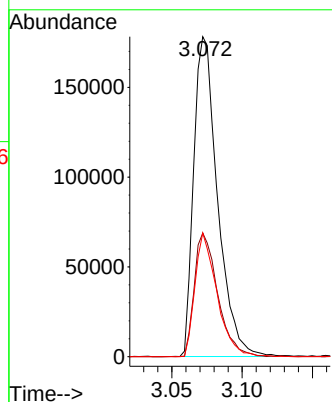
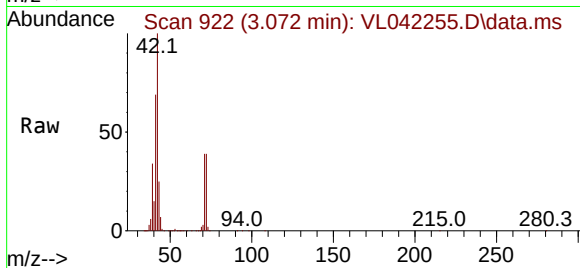
Tgt Ion: 42 Resp: 210024

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

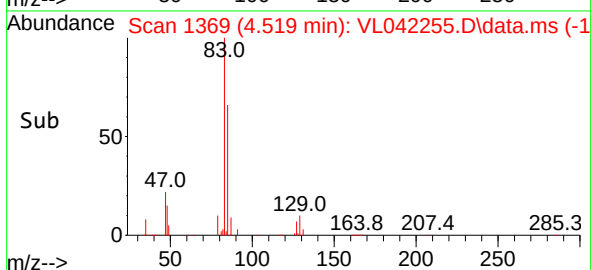
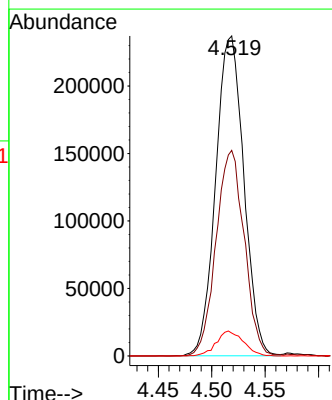
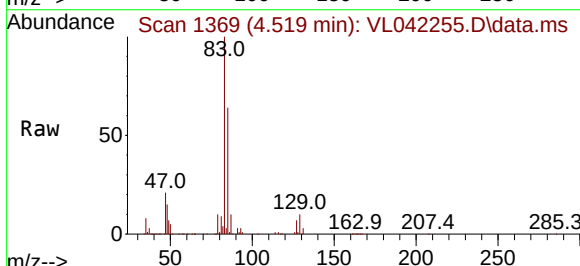
Tgt Ion: 83 Resp: 434165

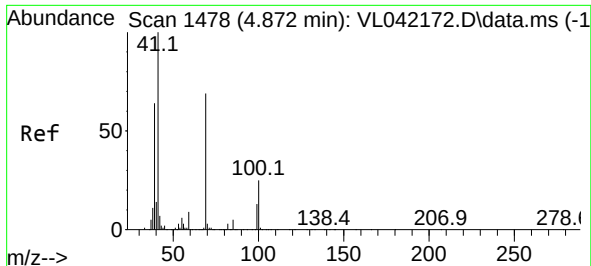
Ion Ratio Lower Upper

83 100

85 64.2 50.5 75.7

127 7.2 5.9 8.9

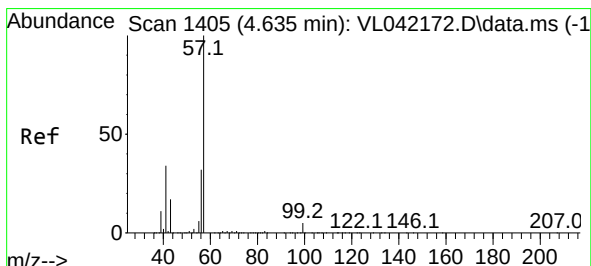
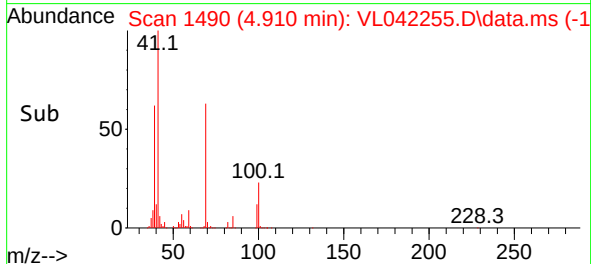
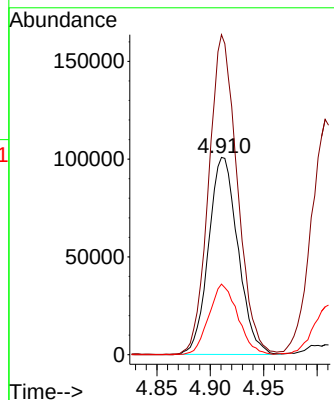
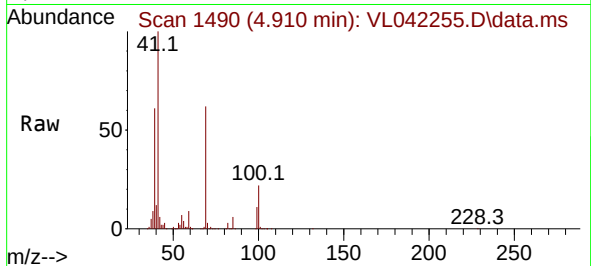




#43
Methyl Methacrylate
Concen: 9.277 ppbv
RT: 4.910 min Scan# 1415
Delta R.T. 0.039 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

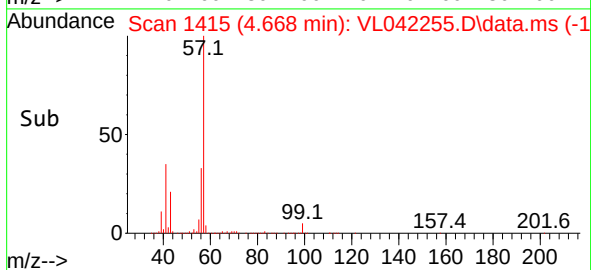
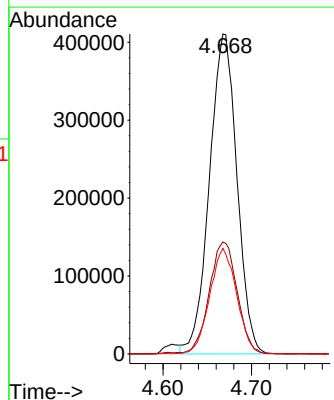
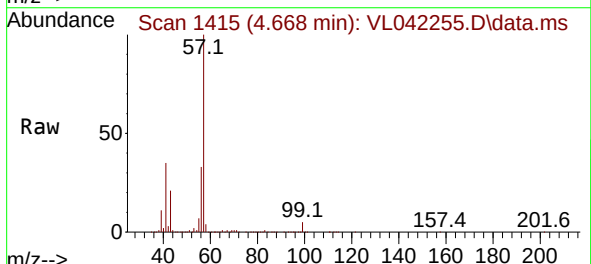
Instrument :
MSVOA_1
ClientSampleId :
VL0408ABS01

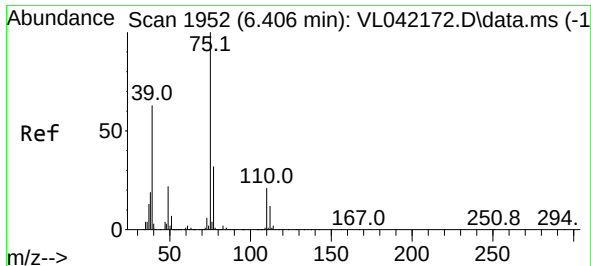
Tgt Ion: 69 Resp: 192595
Ion Ratio Lower Upper
69 100
41 157.9 123.8 185.6
100 35.4 28.4 42.6



#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 :

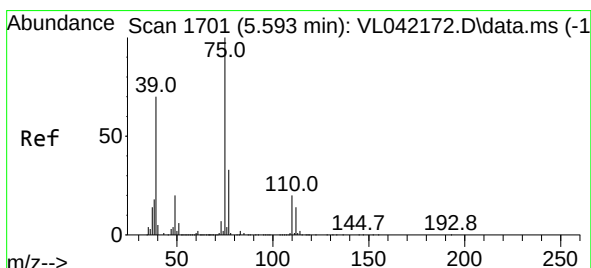
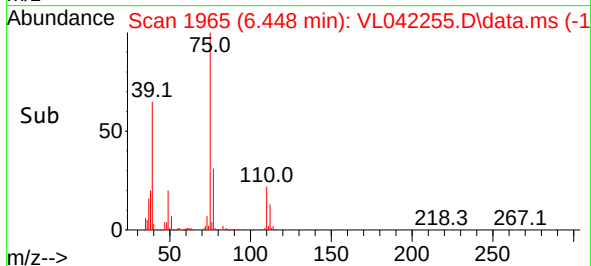
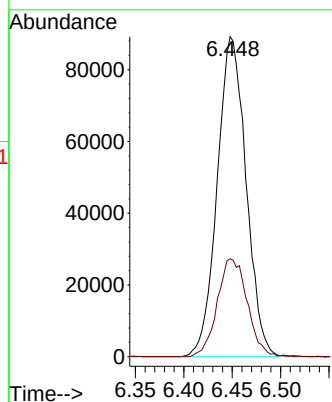
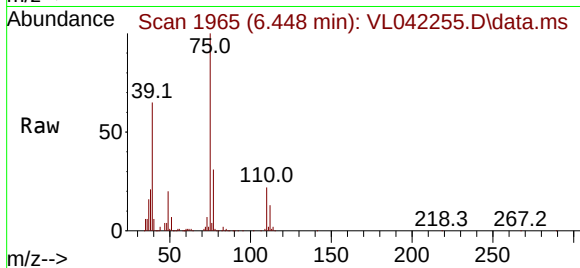
VL0408ABS01

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

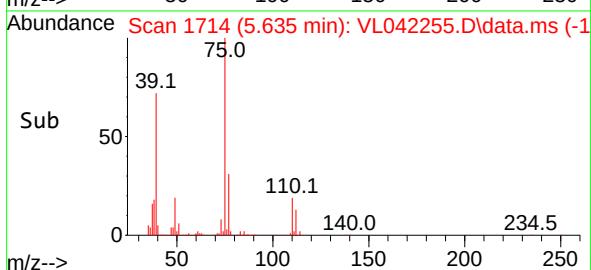
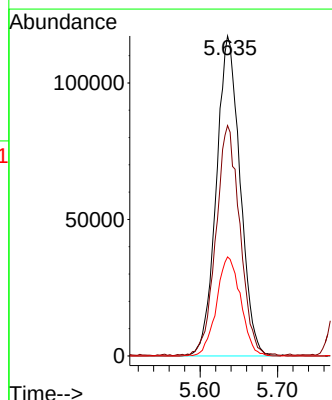
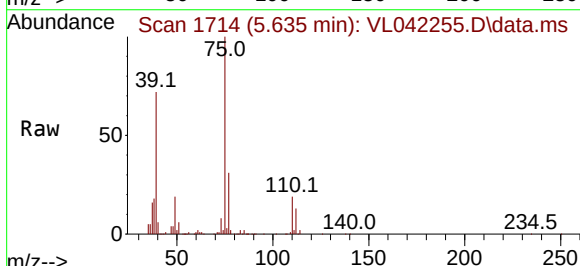
Tgt Ion: 75 Resp: 249791

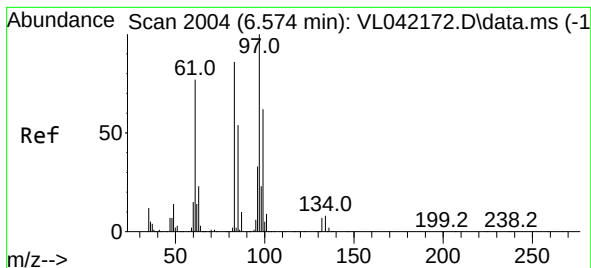
Ion Ratio Lower Upper

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

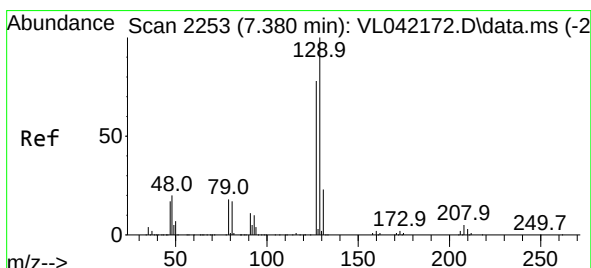
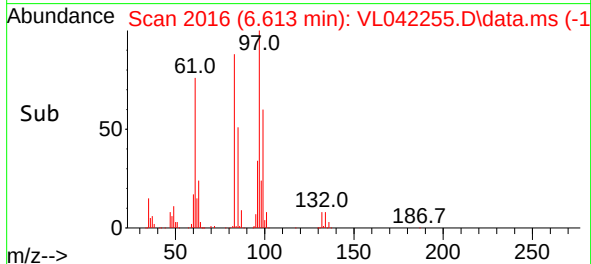
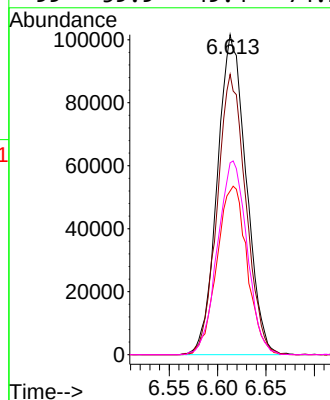
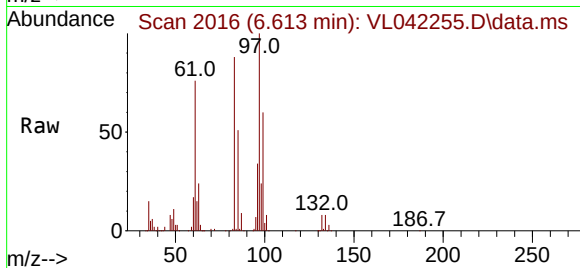
Ion Ratio Lower Upper

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

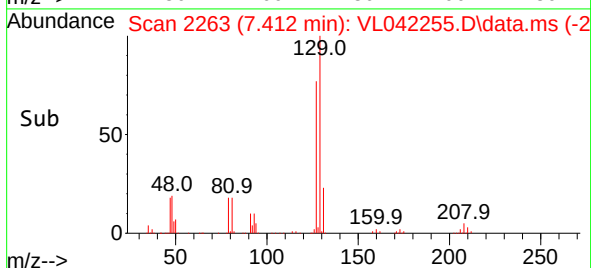
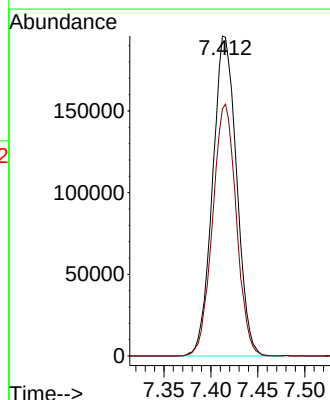
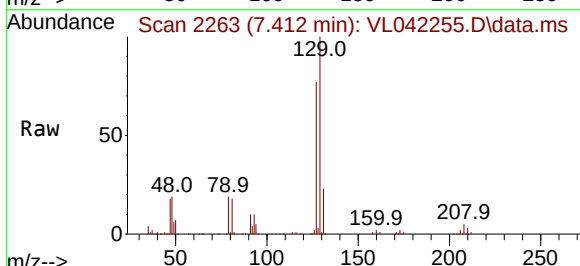
Acq: 08 Apr 2025 10:05

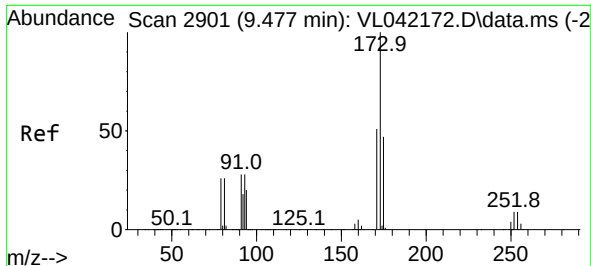
Tgt Ion: 129 Resp: 348149

Ion Ratio Lower Upper

129 100

127 77.6 39.1 117.2

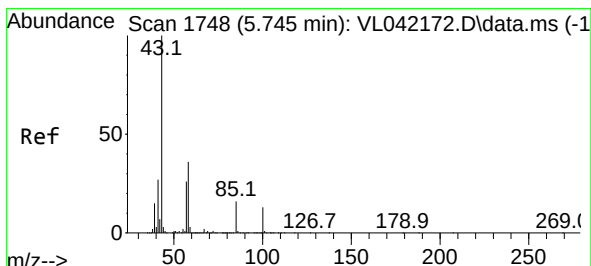
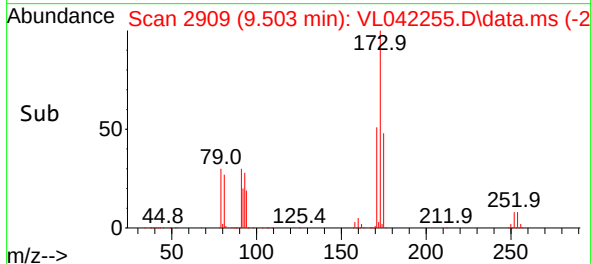
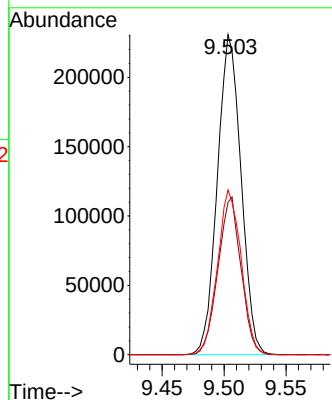
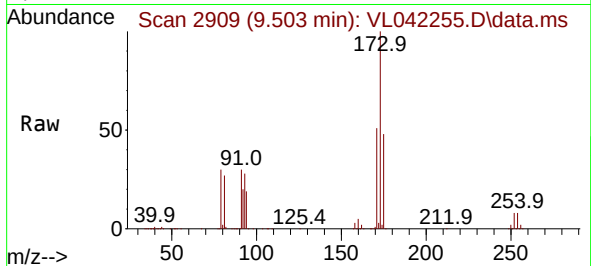




#49
Bromoform
Concen: 10.703 ppbv
RT: 9.503 min Scan# 2909
Delta R.T. 0.026 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

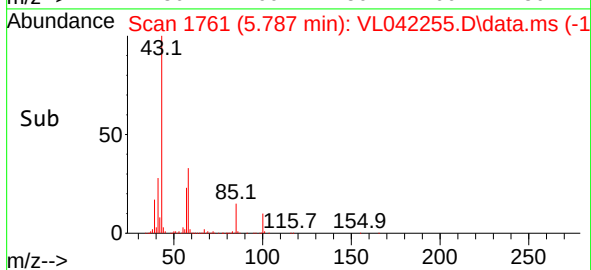
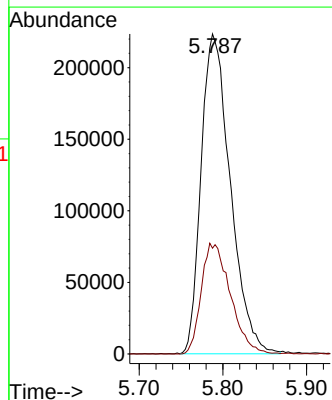
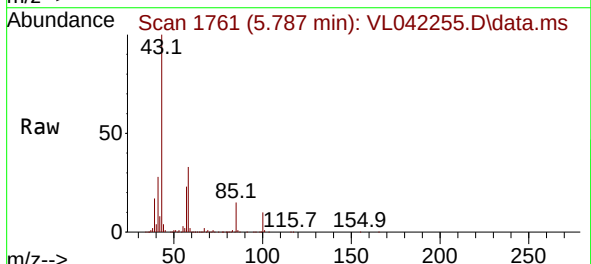
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01

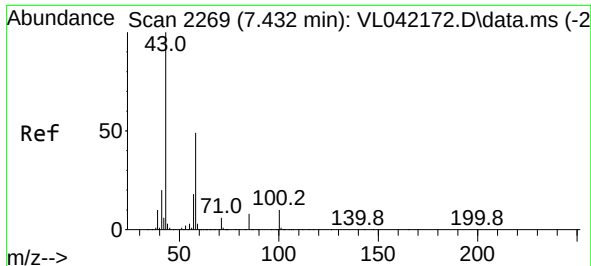
Tgt Ion:173 Resp: 307461
Ion Ratio Lower Upper
173 100
175 47.9 38.6 57.8
171 51.5 41.8 62.6



#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

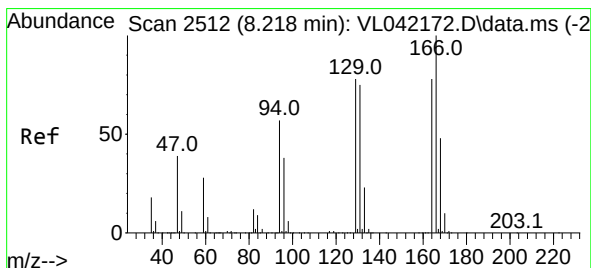
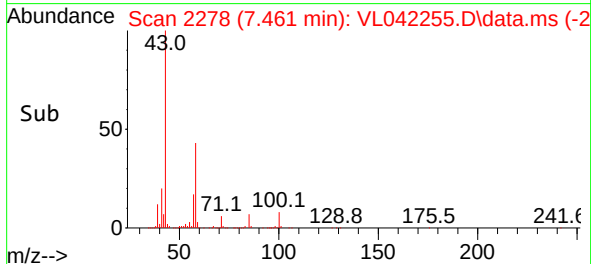
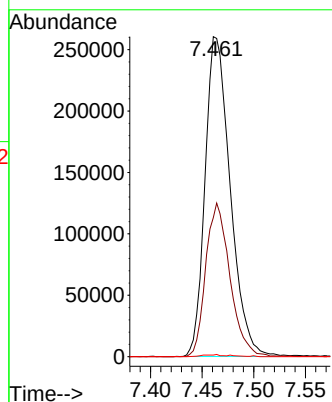
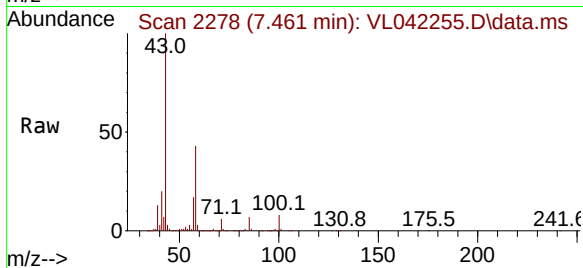




#51
2-Hexanone
Concen: 9.463 ppbv
RT: 7.461 min Scan# 21
Delta R.T. 0.029 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

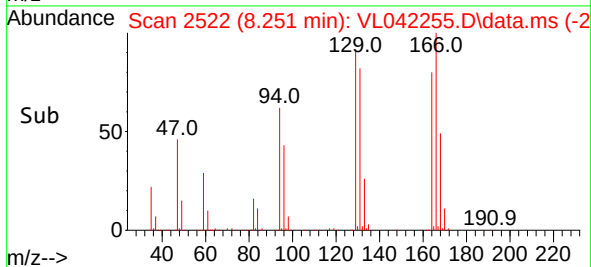
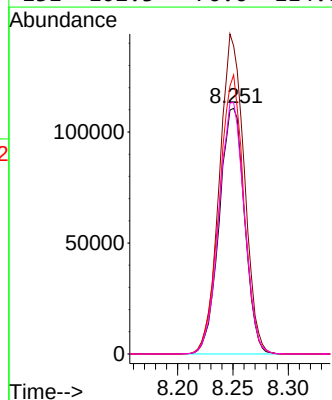
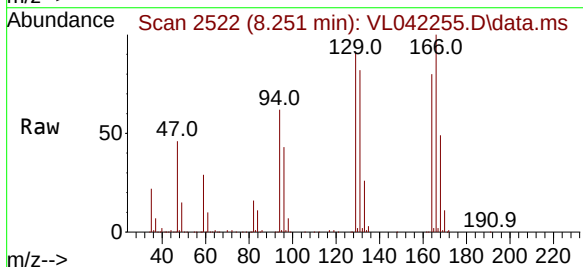
Instrument :
MSVOA_1
ClientSampleId :
VL0408ABS01

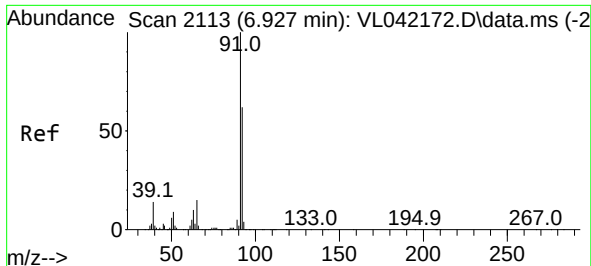
Tgt Ion: 43 Resp: 441742
Ion Ratio Lower Upper
43 100
58 46.3 39.7 59.5
98 0.7 0.1 0.1#



#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

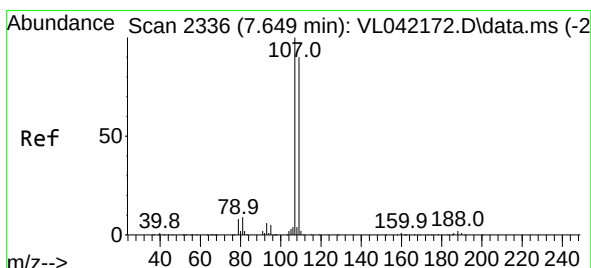
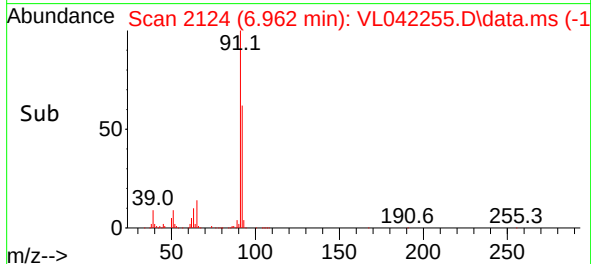
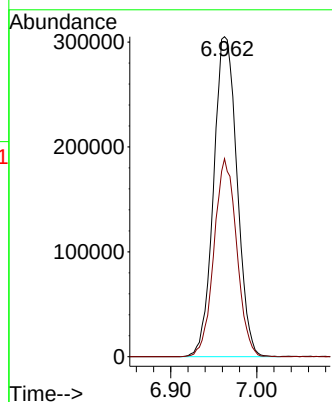
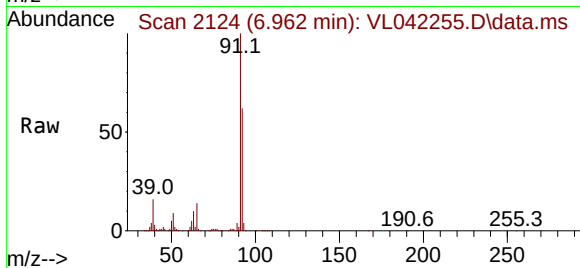




#53
Toluene
Concen: 9.947 ppbv
RT: 6.962 min Scan# 2113
Delta R.T. 0.036 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

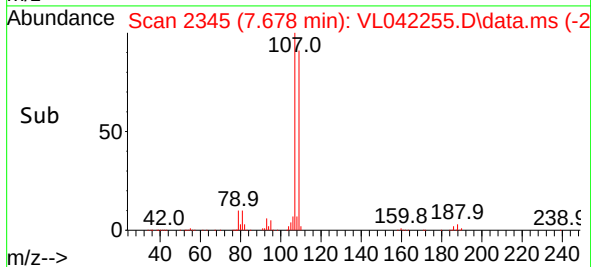
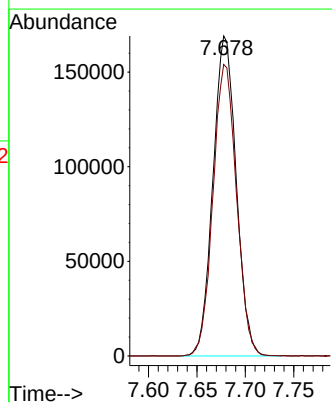
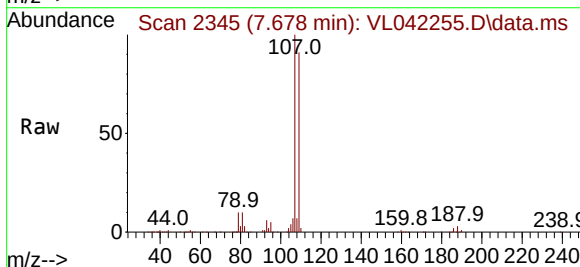
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01

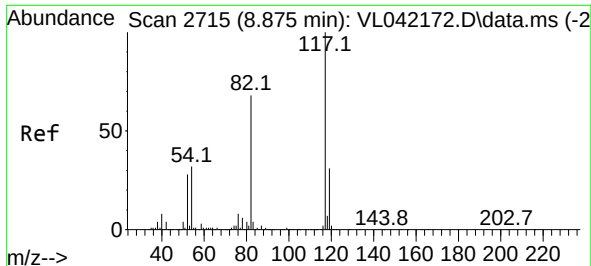
Tgt Ion: 91 Resp: 578261
Ion Ratio Lower Upper
91 100
92 59.8 48.4 72.6



#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

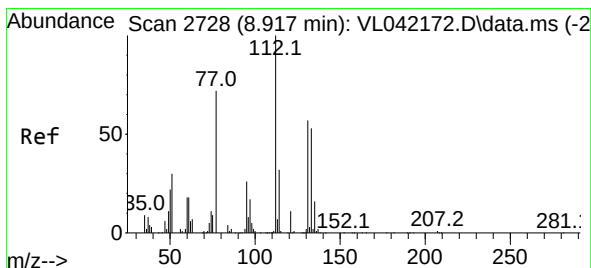
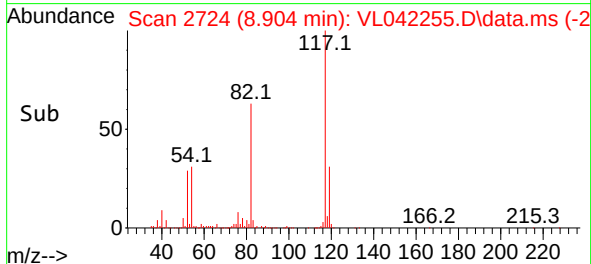
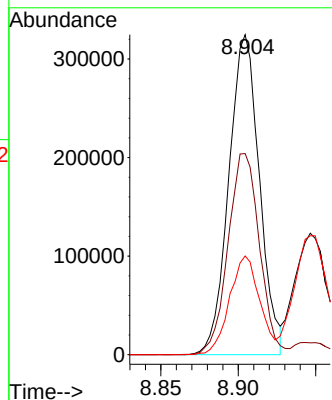
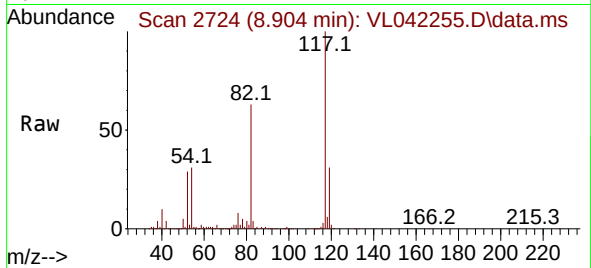




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 21
Delta R.T. 0.029 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

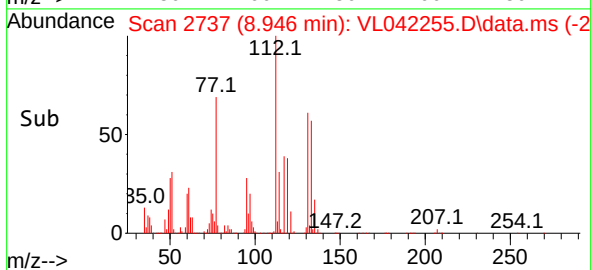
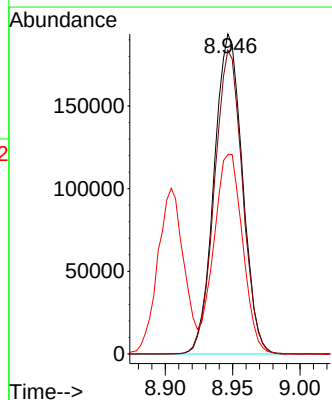
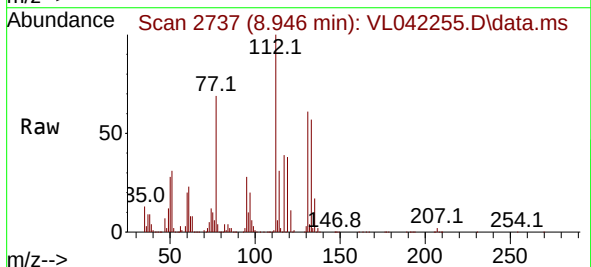
Instrument :
MSVOA_L
ClientSampleId :
VL0408ABS01

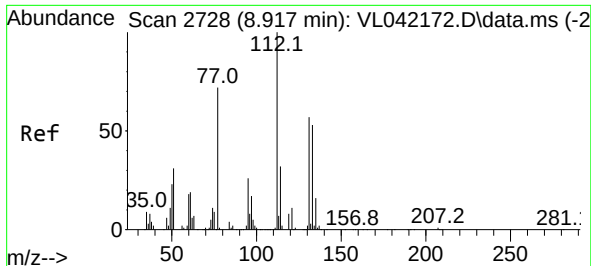
Tgt Ion:117 Resp: 447066
Ion Ratio Lower Upper
117 100
82 68.7 55.8 83.6
119 30.4 25.5 38.3



#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

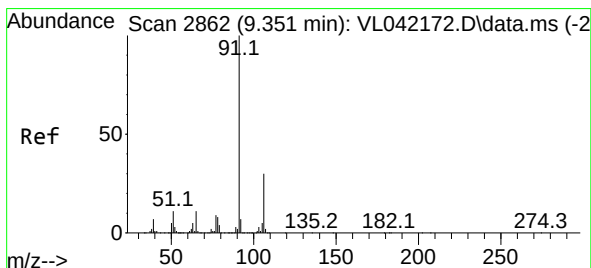
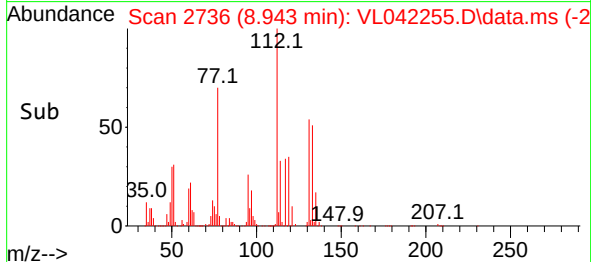
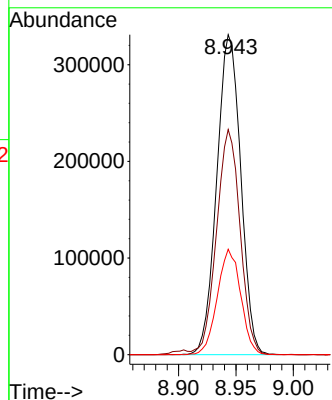
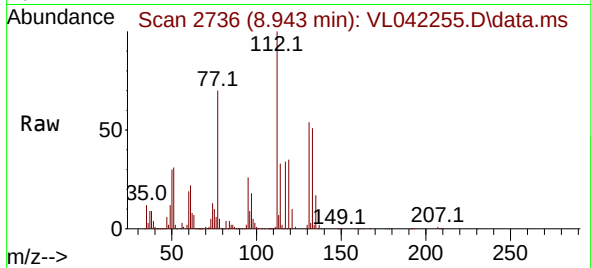




#57
Chlorobenzene
Concen: 11.360 ppbv
RT: 8.943 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

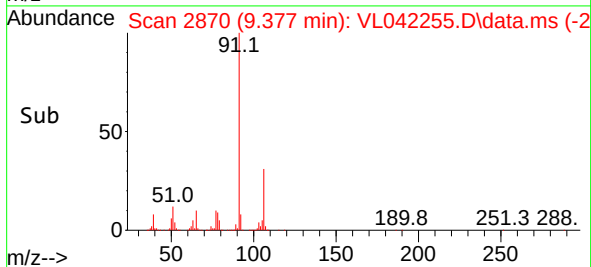
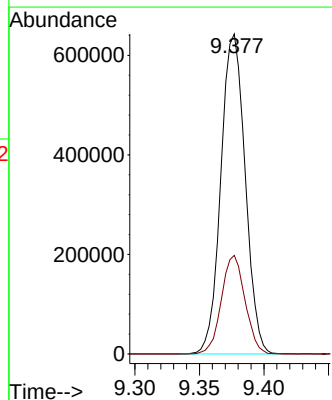
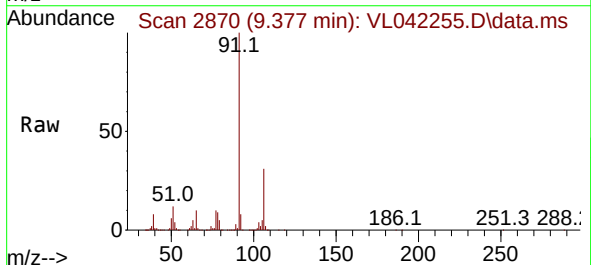
Instrument :
MSVOA_1
ClientSampleId :
VL0408ABS01

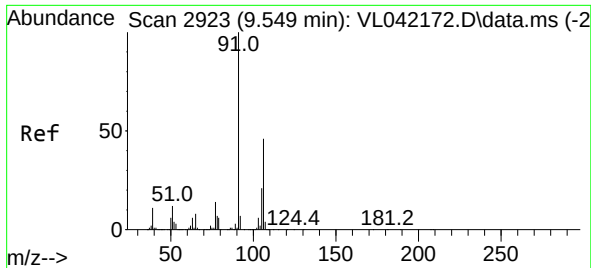
Tgt Ion:112 Resp: 481713
Ion Ratio Lower Upper
112 100
77 70.3 58.2 87.2
114 32.9 29.1 35.5



#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 :

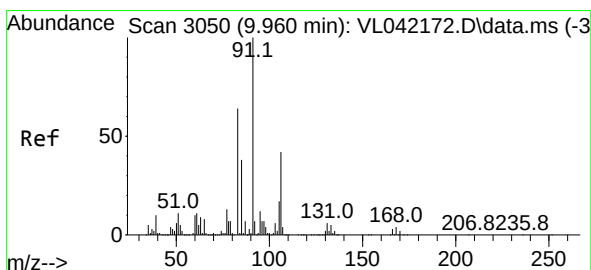
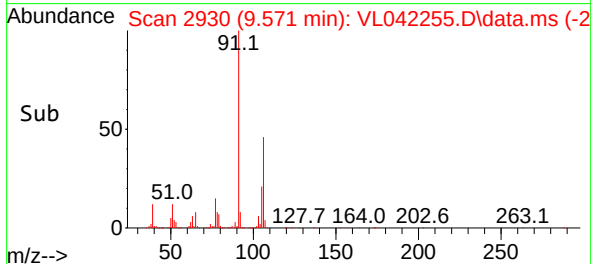
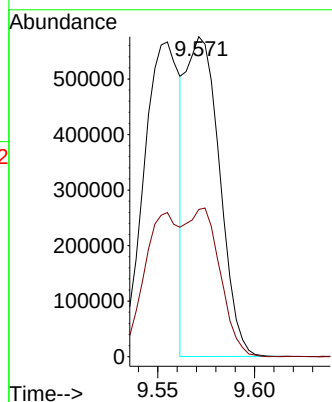
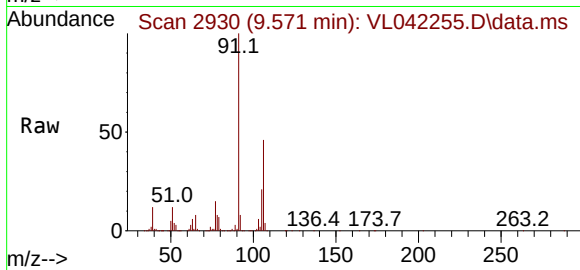
VL0408ABS01

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

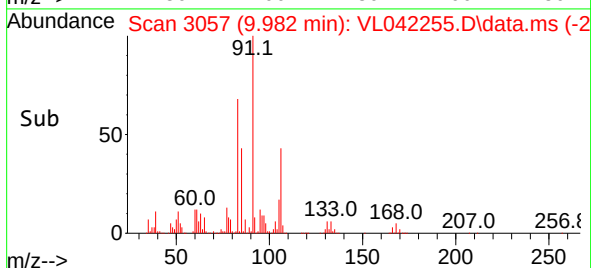
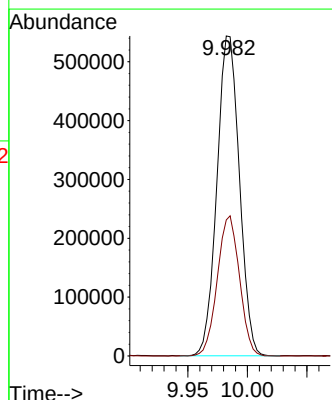
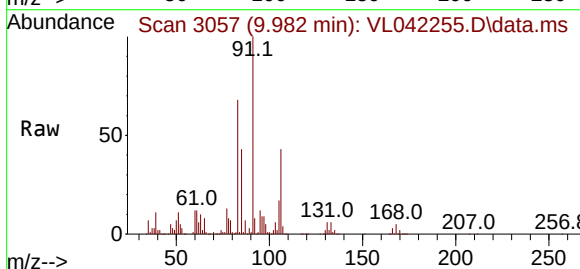
Acq: 08 Apr 2025 10:05

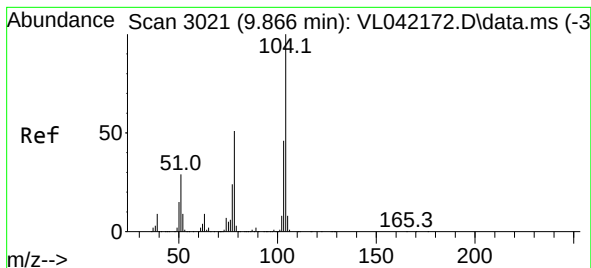
Tgt Ion: 91 Resp: 711568

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

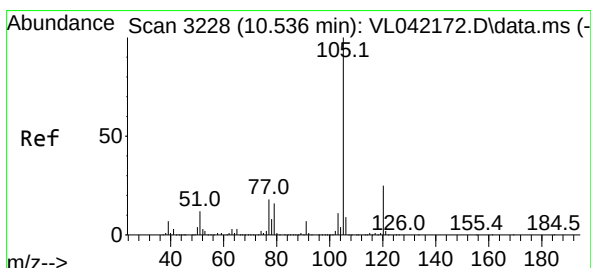
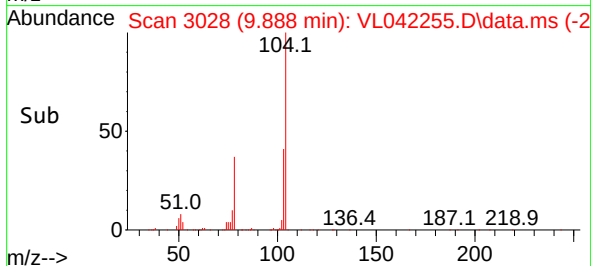
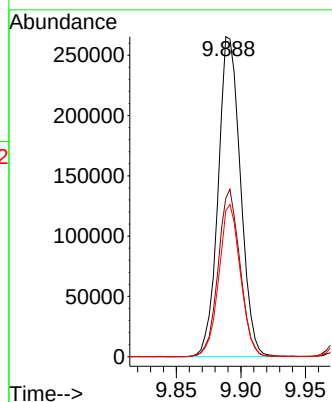
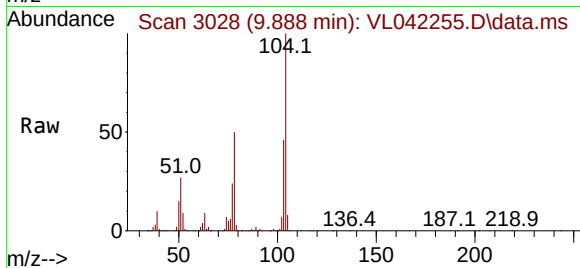
Tgt Ion:104 Resp: 319155

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

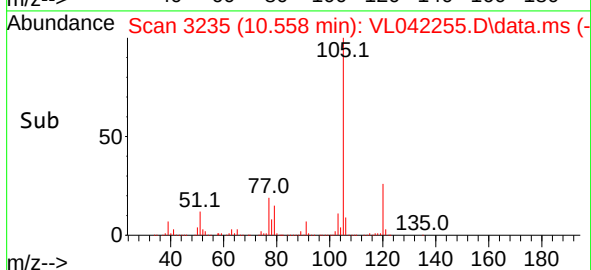
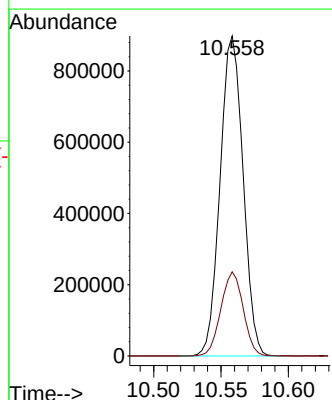
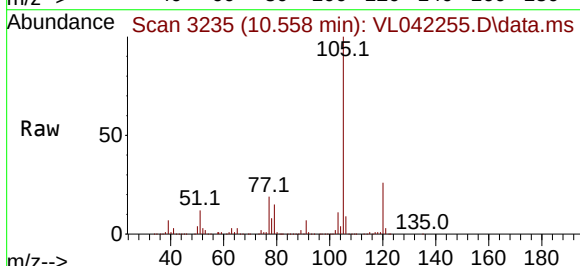
Acq: 08 Apr 2025 10:05

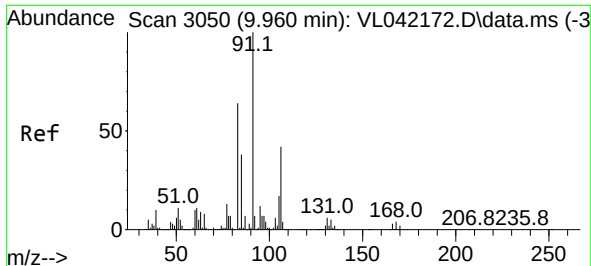
Tgt Ion:105 Resp: 1063992

Ion Ratio Lower Upper

105 100

120 25.5 19.9 29.9

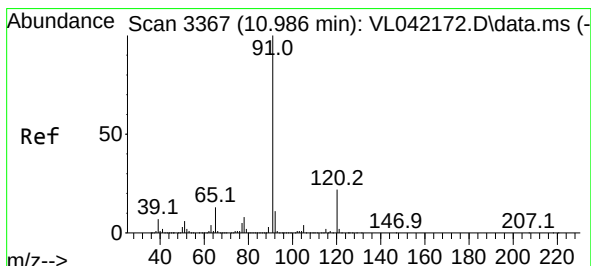
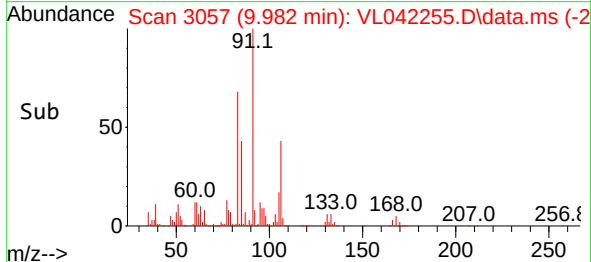
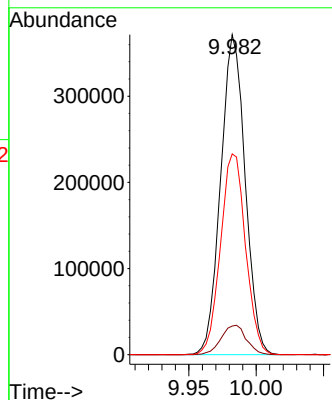
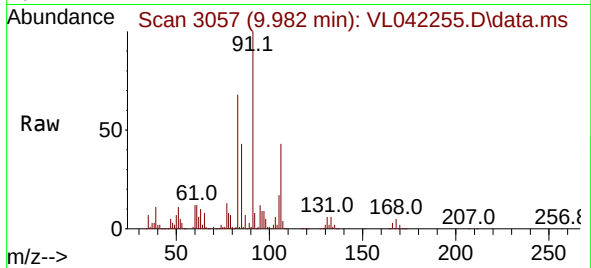




#63
1,1,2,2-Tetrachloroethane
Concen: 12.139 ppbv
RT: 9.982 min Scan# 3057
Delta R.T. 0.023 min
Lab File: VL042255.D
Acq: 08 Apr 2025 10:05

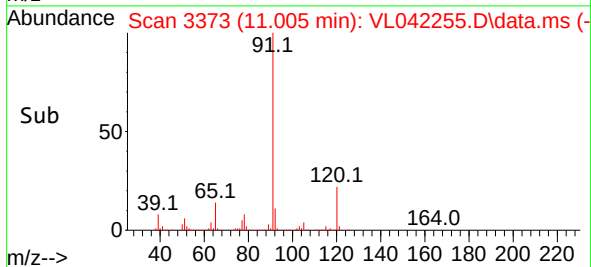
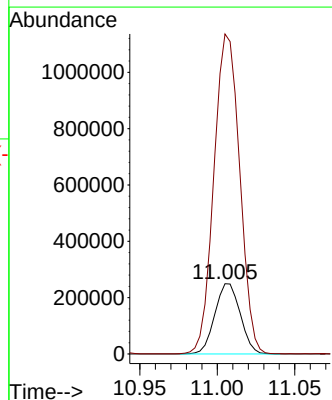
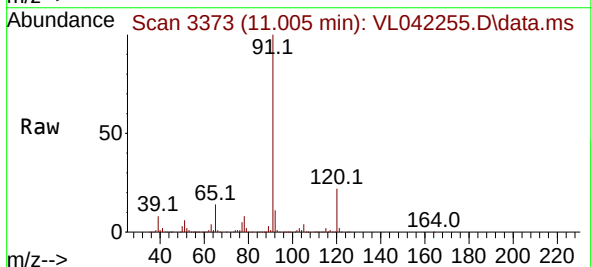
Instrument :
MSVOA_1
ClientSampleId :
VL0408ABS01

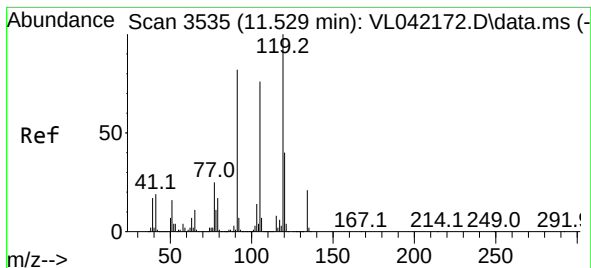
Tgt Ion: 83 Resp: 468851
Ion Ratio Lower Upper
83 100
131 9.5 4.8 14.4
85 64.2 32.5 97.5



#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

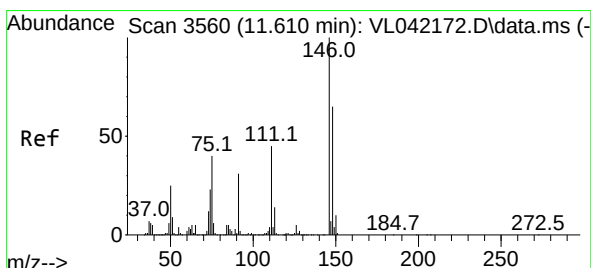
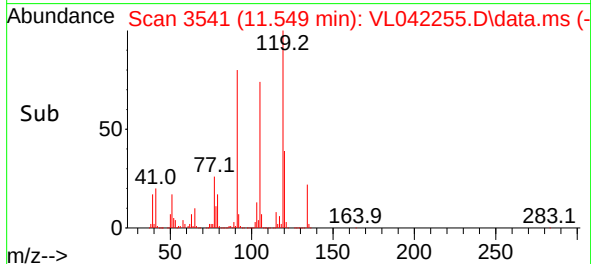
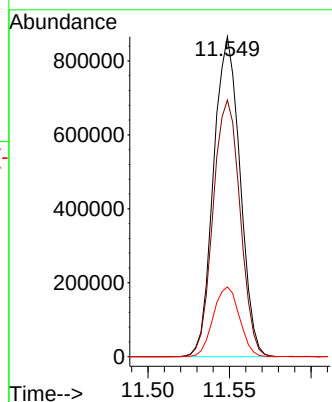
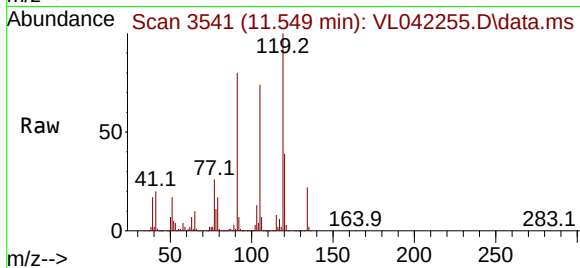




#65
 tert-Butylbenzene
 Concen: 11.112 ppbv
 RT: 11.549 min Scan# 3541
 Delta R.T. 0.019 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

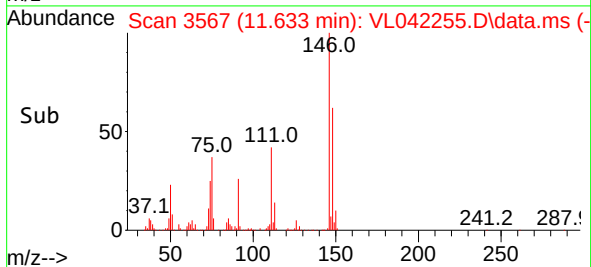
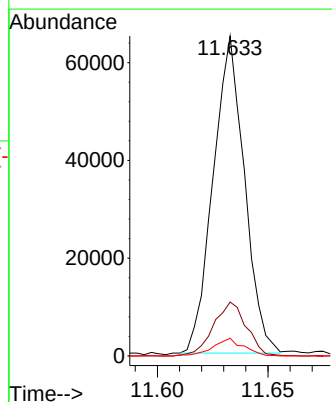
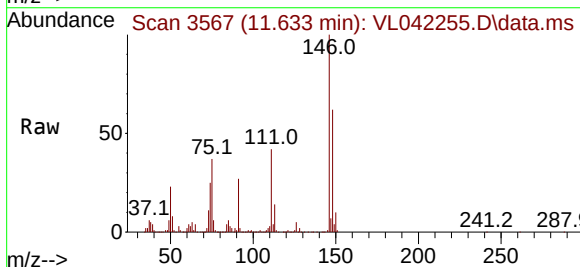
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0408ABS01

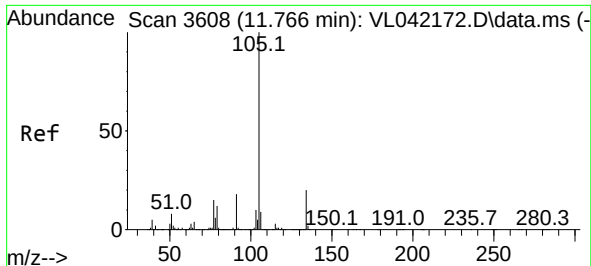
Tgt Ion:119 Resp: 976872
 Ion Ratio Lower Upper
 119 100
 91 81.9 66.0 99.0
 134 21.5 16.7 25.1



#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

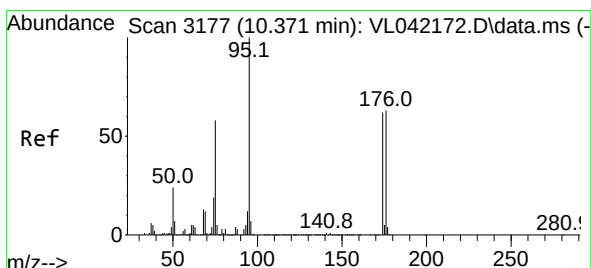
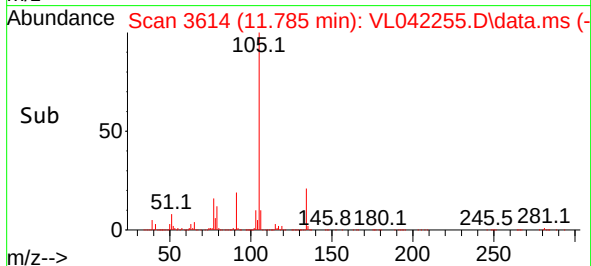
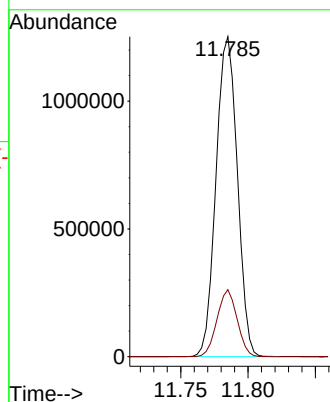
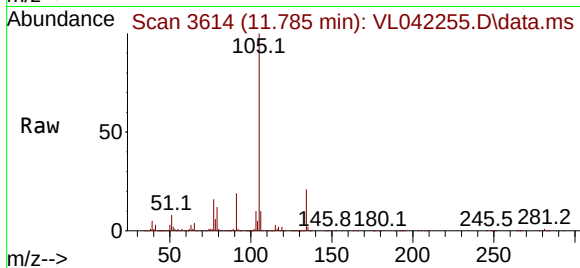




#67
 sec-Butylbenzene
 Concen: 11.275 ppbv
 RT: 11.785 min Scan# 3184
 Delta R.T. 0.019 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

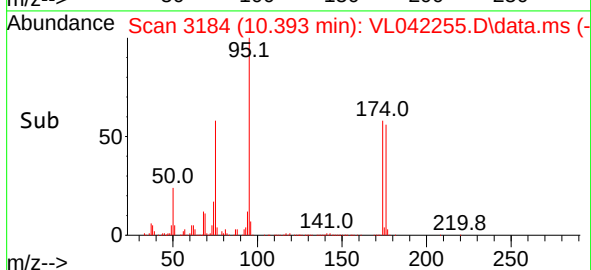
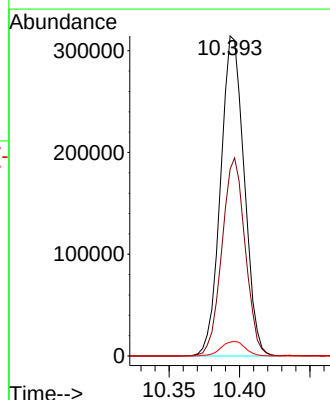
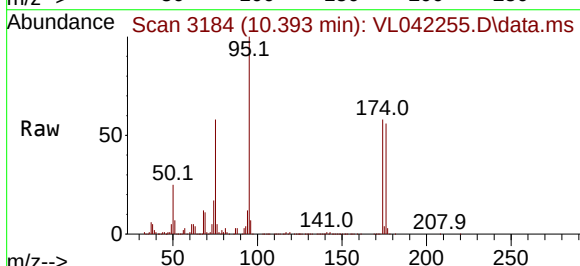
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0408ABS01

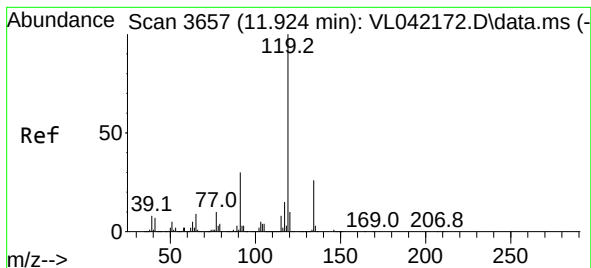
Tgt Ion:105 Resp: 1377726
 Ion Ratio Lower Upper
 105 100
 134 19.8 15.5 23.3



#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

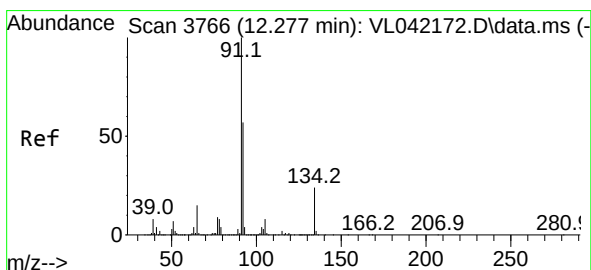
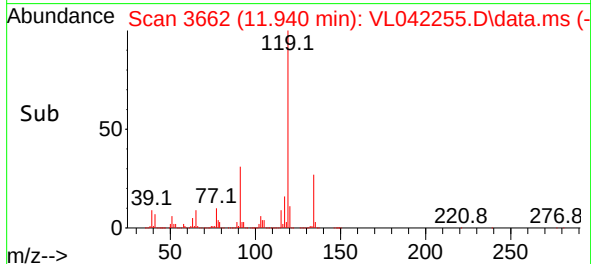
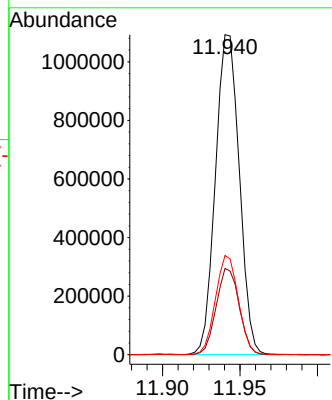
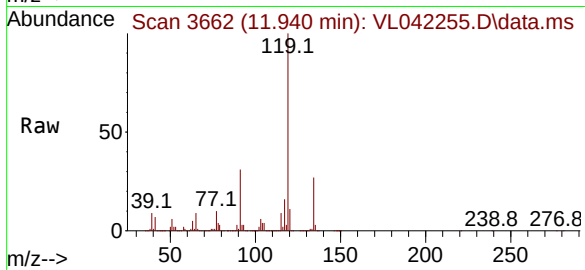
Tgt Ion:119 Resp: 1168405

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

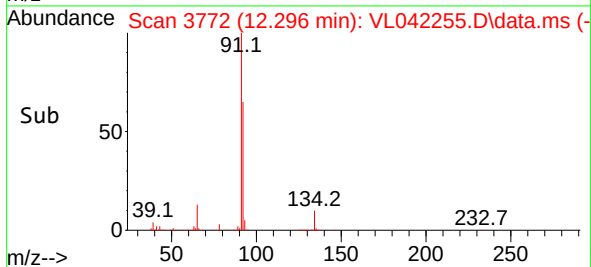
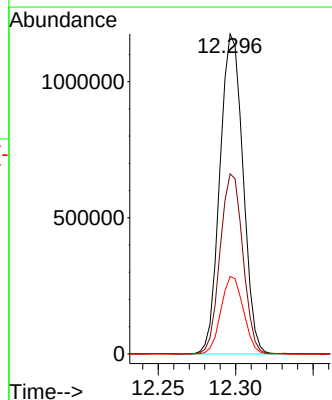
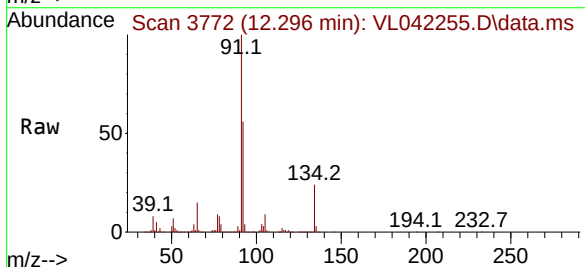
Tgt Ion: 91 Resp: 1217247

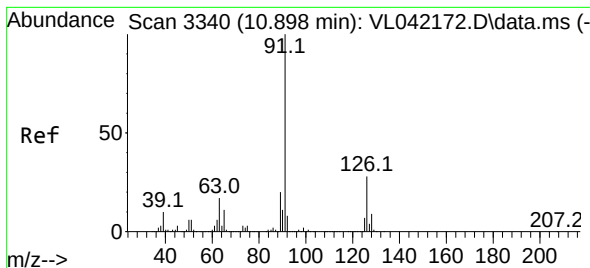
Ion Ratio Lower Upper

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 :

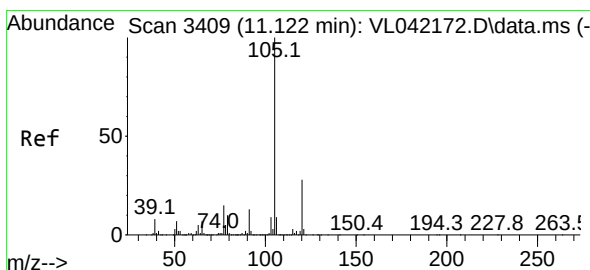
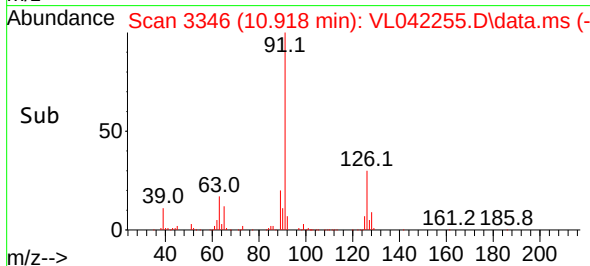
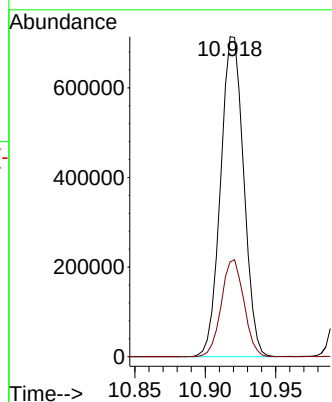
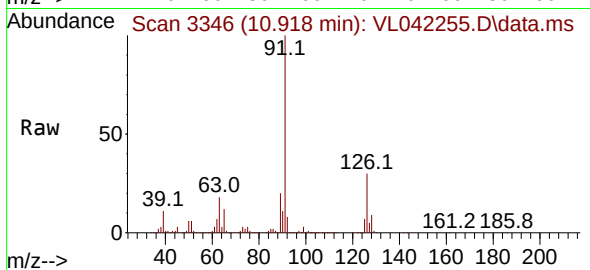
VL0408ABS01

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

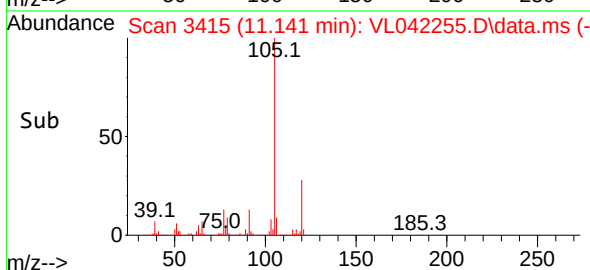
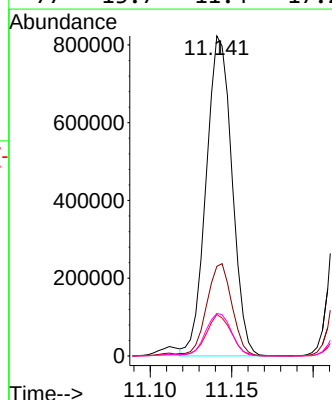
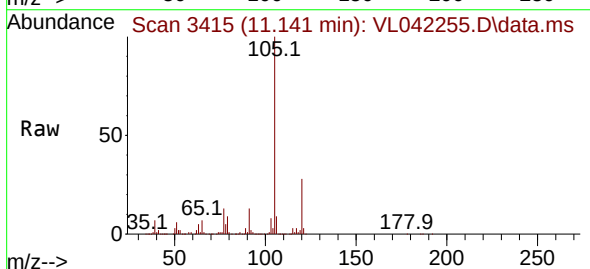
Ion Ratio Lower Upper

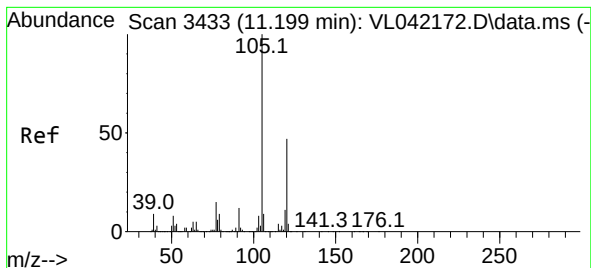
105 100

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 :

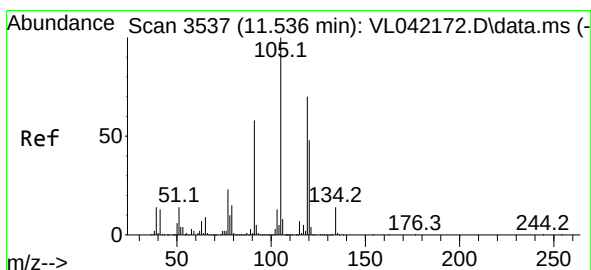
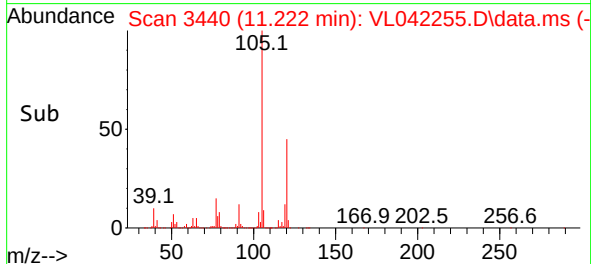
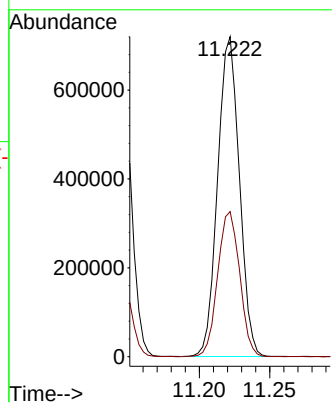
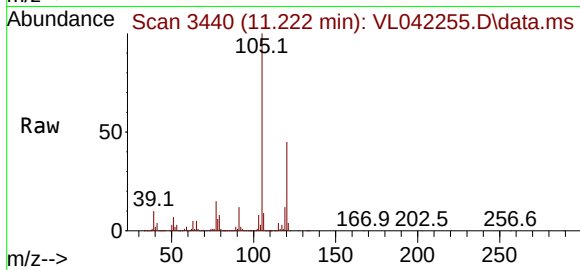
VL0408ABS01

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

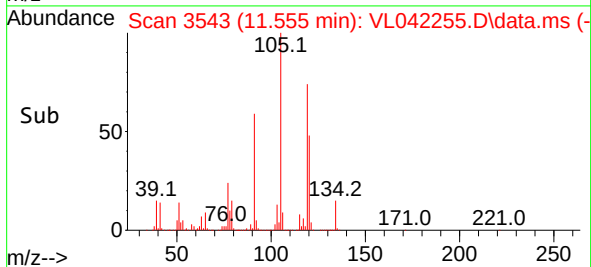
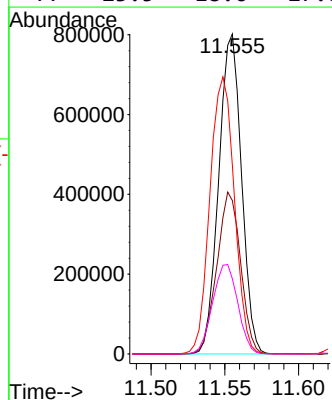
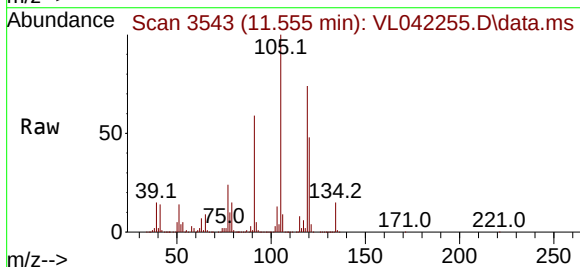
Ion Ratio Lower Upper

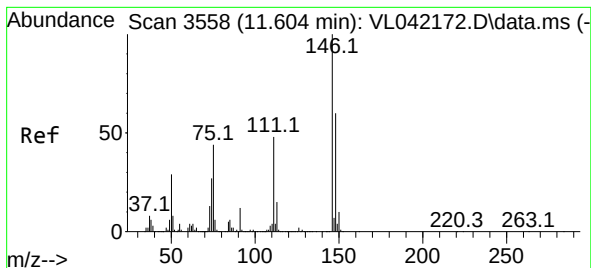
105 100

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# 3558

Delta R.T. 0.019 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Instrument :

MSVOA_1

ClientSampleId :

VL0408ABS01

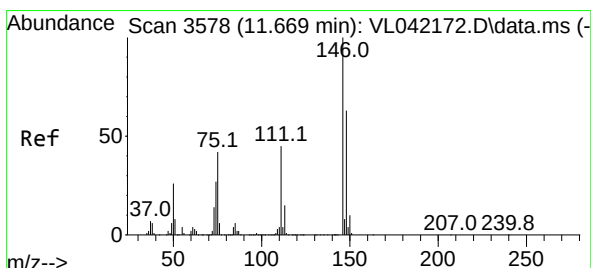
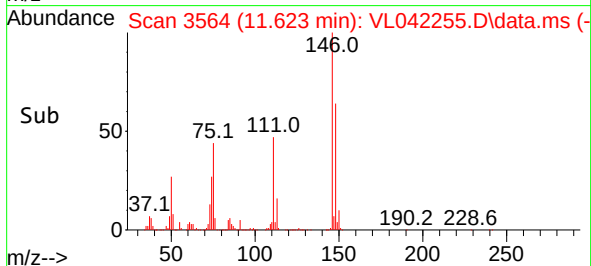
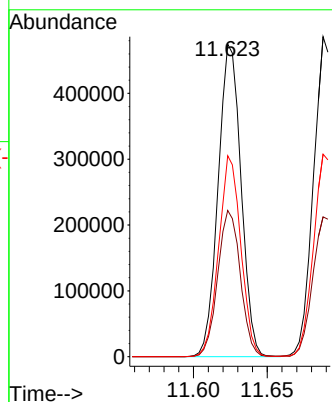
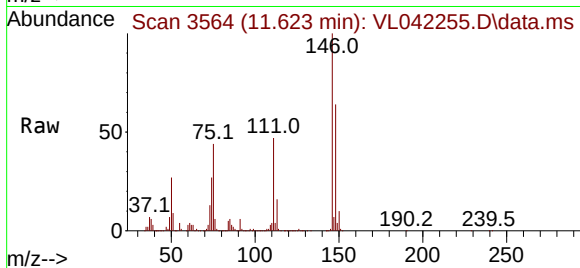
Tgt Ion:146 Resp: 512731

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

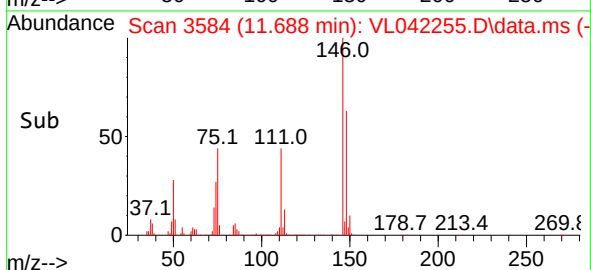
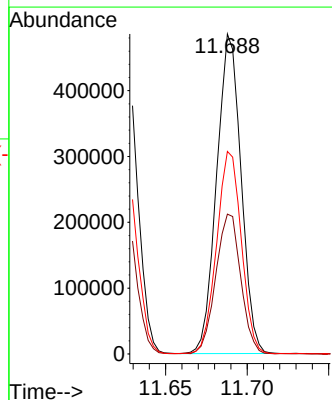
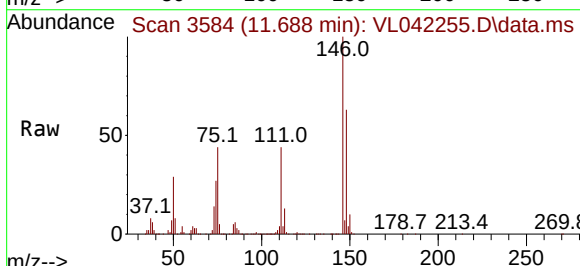
Tgt Ion:146 Resp: 505049

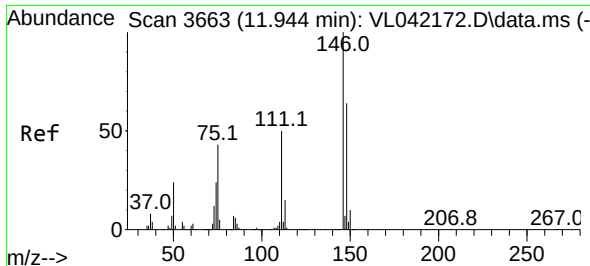
Ion Ratio Lower Upper

146 100

111 44.9 23.0 69.0

148 64.4 31.9 95.7

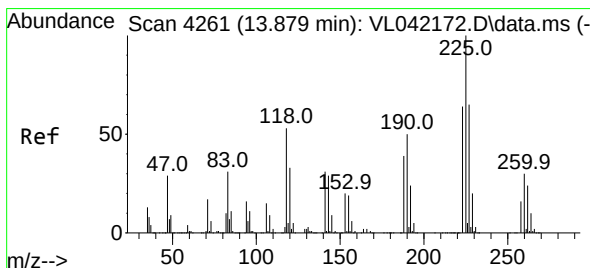
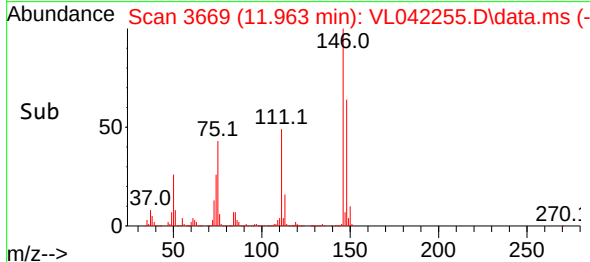
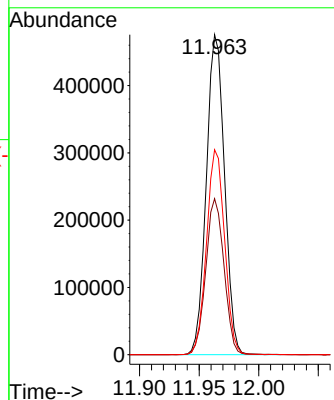
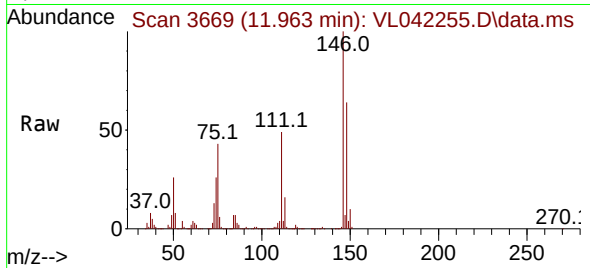




#77
 1,2-Dichlorobenzene
 Concen: 11.883 ppbv
 RT: 11.963 min Scan# 3669
 Delta R.T. 0.019 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

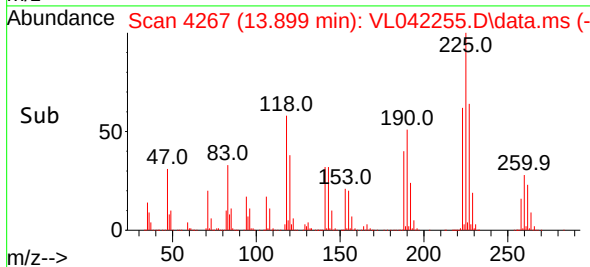
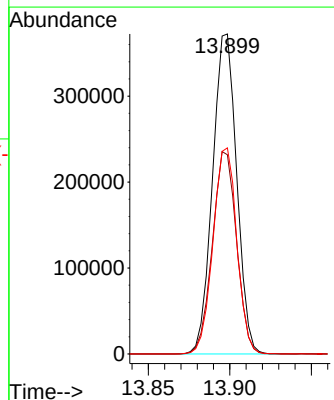
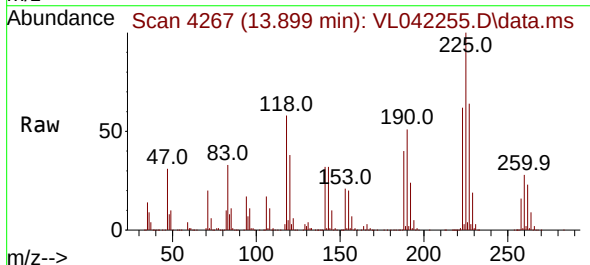
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0408ABS01

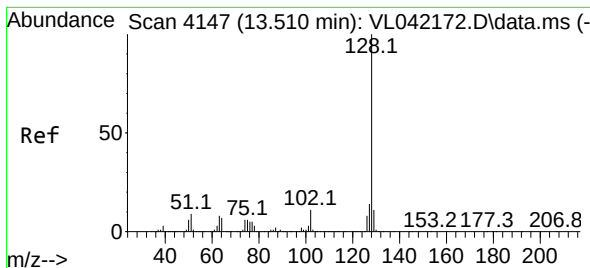
Tgt Ion:146 Resp: 505323
 Ion Ratio Lower Upper
 146 100
 111 48.9 24.8 74.3
 148 63.8 31.6 94.8



#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# 41

Delta R.T. 0.019 min

Lab File: VL042255.D

Acq: 08 Apr 2025 10:05

Instrument :

MSVOA_1

ClientSampleId :

VL0408ABS01

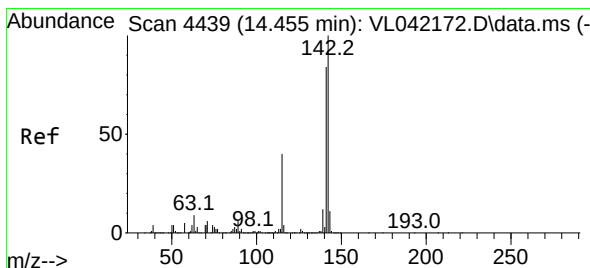
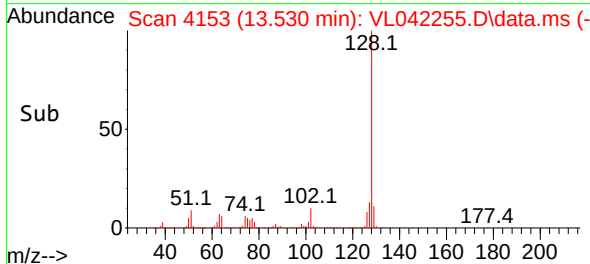
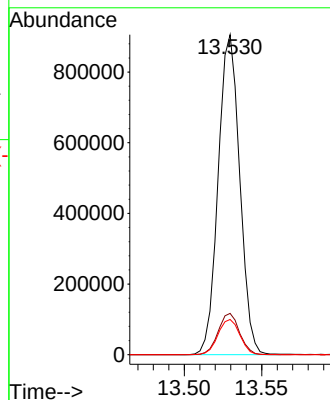
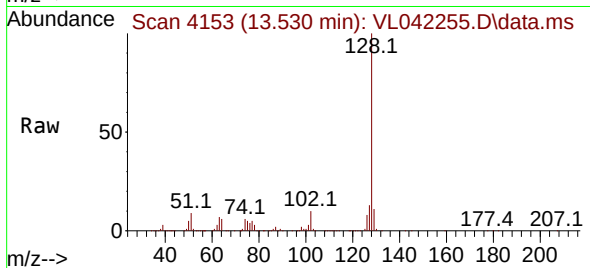
Tgt Ion:128 Resp: 875824

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

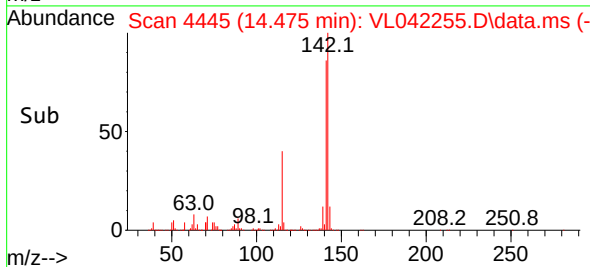
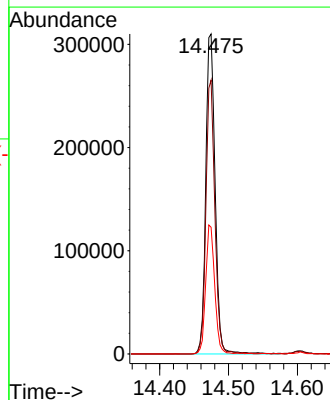
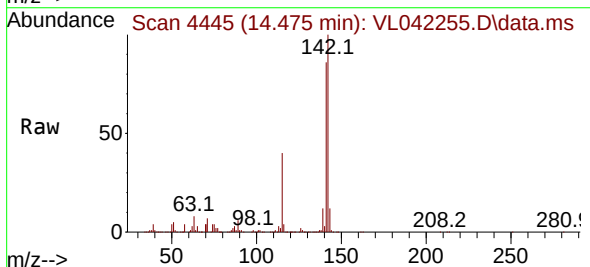
Tgt Ion:142 Resp: 291105

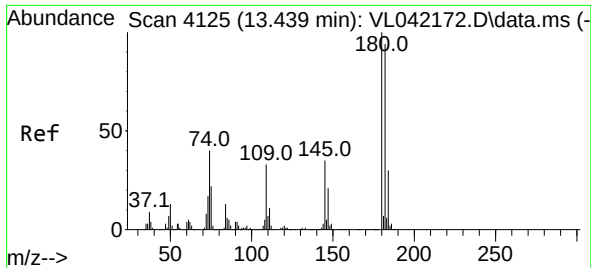
Ion Ratio Lower Upper

142 100

141 82.7 66.3 99.5

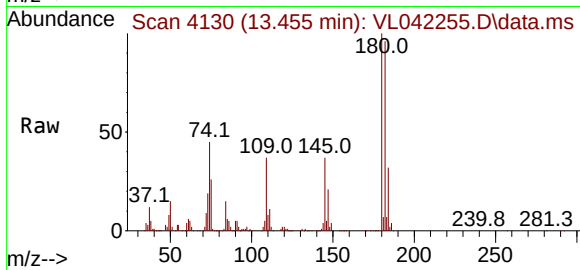
115 39.6 31.6 47.4





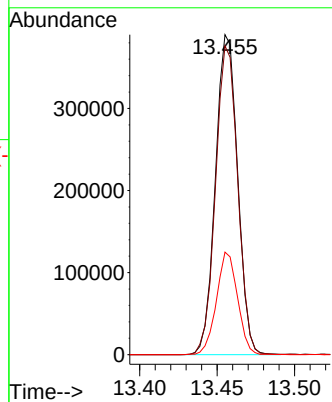
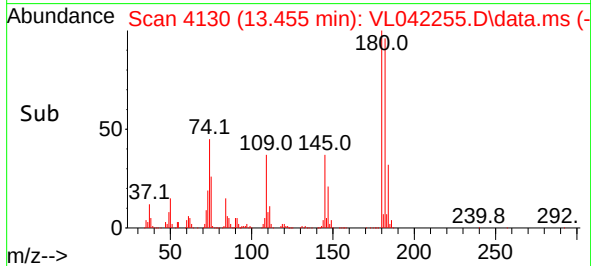
#81
 1,2,4-Trichlorobenzene
 Concen: 9.672 ppbv
 RT: 13.455 min Scan# 41
 Delta R.T. 0.016 min
 Lab File: VL042255.D
 Acq: 08 Apr 2025 10:05

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 : VL042261.D
 Acq On : 08 Apr 2025 13:52
 Operator : SY/MD
 Sample : Q1728-06DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-5-04022025DL

Quant Time: Apr 09 01:55:11 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)

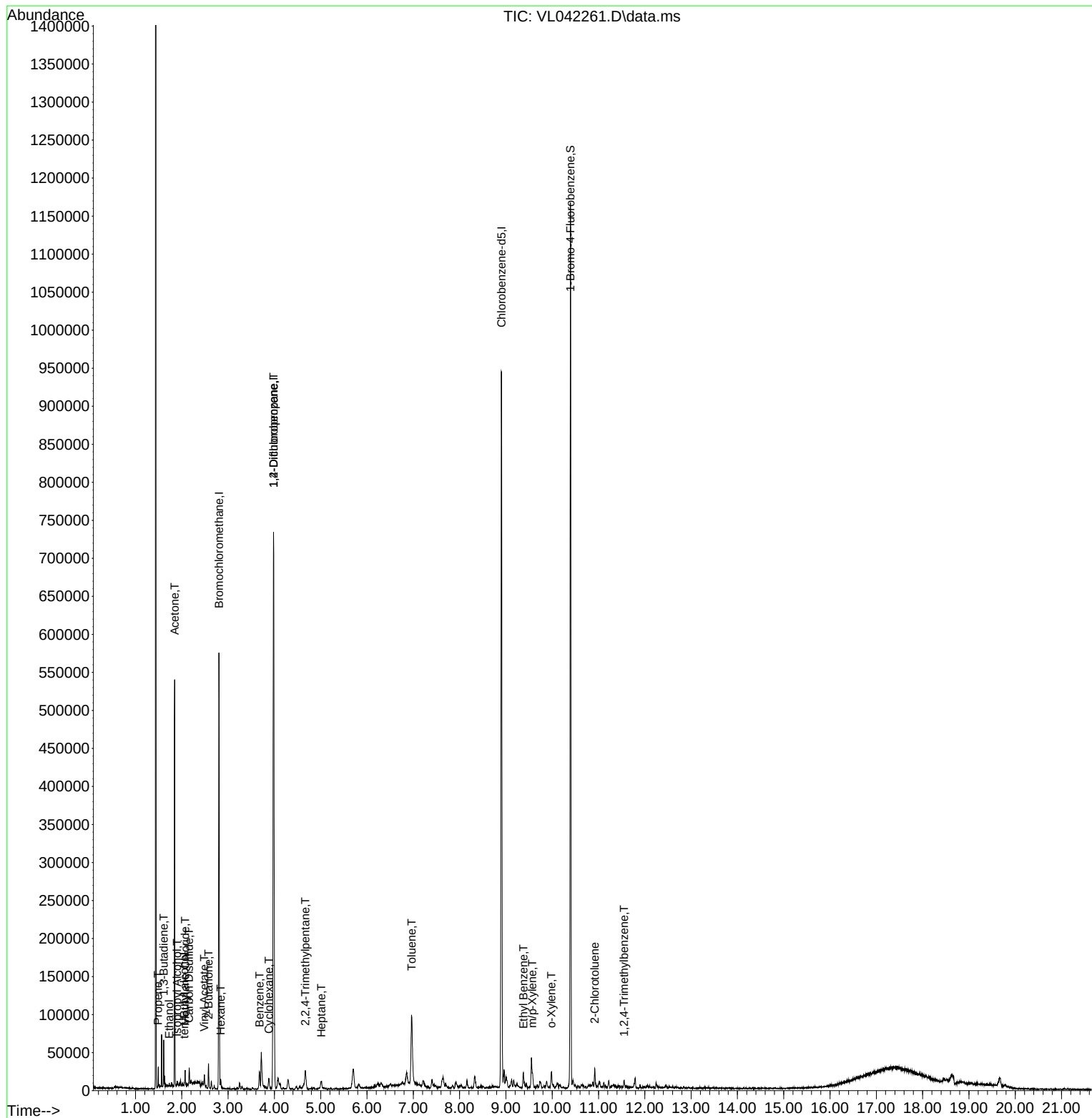
Internal Standards						
1) Bromochloromethane	2.803	49	158005	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	439373	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	391568	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	295748	9.197	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.000%
Target Compounds						
					Qvalue	
9) Propene	1.489	41	4186	0.383	ppbv	91
10) Heptane	5.014	43	2996	0.103	ppbv #	52
13) Ethanol	1.729	45	1531	1.483	ppbv	98
15) Acetone	1.845	43	225134	10.188	ppbv	96
16) 1,3-Butadiene	1.609	39	6177	0.572	ppbv #	25
17) tert-Butyl alcohol	2.056	59	1582	0.057	ppbv #	84
19) Isopropyl Alcohol	1.897	45	2391	0.192	ppbv #	30
20) Methylene Chloride	2.072	84	2648	0.322	ppbv #	88
23) Vinyl Acetate	2.486	43	4252	0.445	ppbv #	67
26) Hexane	2.842	57	2234	0.101	ppbv #	25
27) Carbon Disulfide	2.159	76	11933	0.502	ppbv #	40
30) Cyclohexane	3.878	84	1113	0.058	ppbv #	1
34) 2-Butanone	2.577	43	19969	0.627	ppbv	98
36) Benzene	3.677	78	13713	0.315	ppbv	98
39) 1,2-Dichloropropane	3.981	63	112028	7.062	ppbv #	22
44) 2,2,4-Trimethylpentane	4.668	57	20025	0.272	ppbv #	79
53) Toluene	6.962	91	63357	1.227	ppbv	98
58) Ethyl Benzene	9.380	91	10341	0.149	ppbv #	88
59) m/p-Xylene	9.571	91	4118	0.074	ppbv #	31
60) o-Xylene	9.982	91	9278	0.167	ppbv	92
71) 2-Chlorotoluene	10.918	91	7066	0.109	ppbv	98
74) 1,2,4-Trimethylbenzene	11.549	105	3259	0.047	ppbv #	56

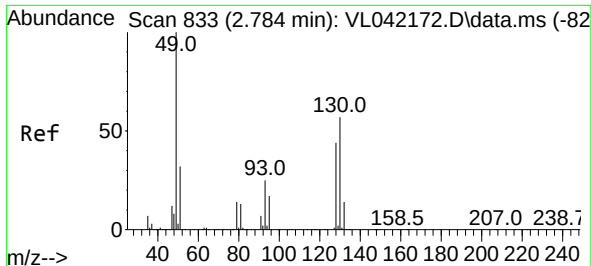
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042261.D
Acq On : 08 Apr 2025 13:52
Operator : SY/MD
Sample : Q1728-06DL 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025DL

Quant Time: Apr 09 01:55:11 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

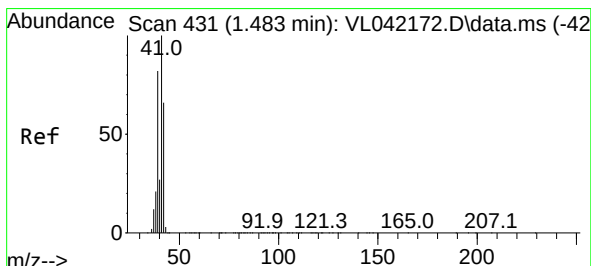
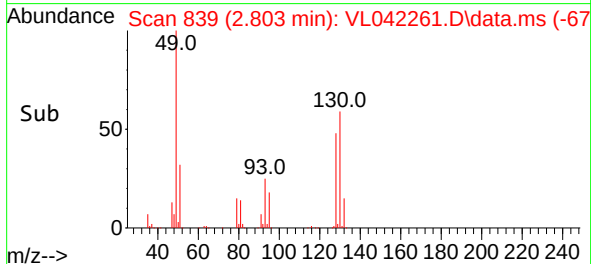
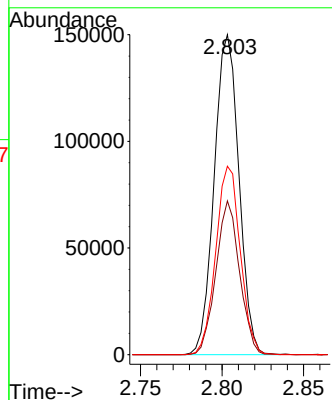
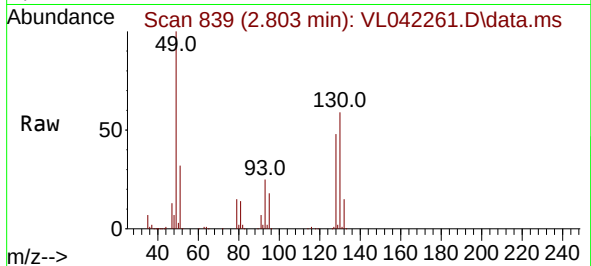




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

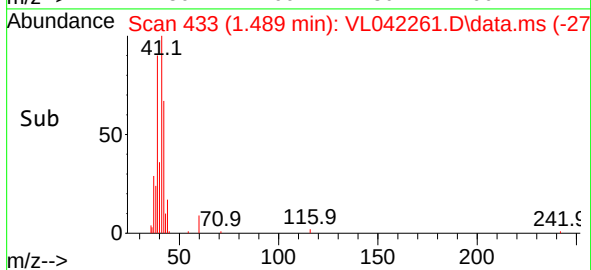
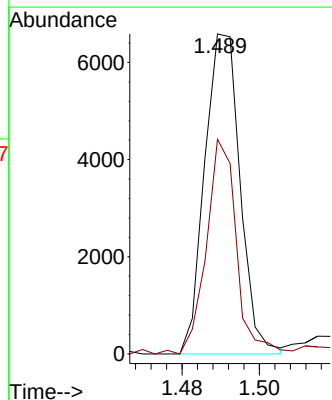
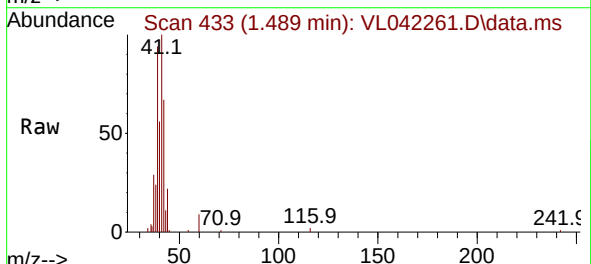
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025DL

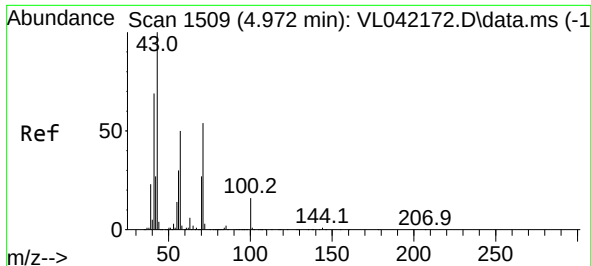
Tgt Ion: 49 Resp: 158005
Ion Ratio Lower Upper
49 100
128 46.0 22.9 68.5
130 58.5 28.8 86.4



#9
Propene
Concen: 0.383 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

Tgt Ion: 41 Resp: 4186
Ion Ratio Lower Upper
41 100
42 62.2 55.4 83.2

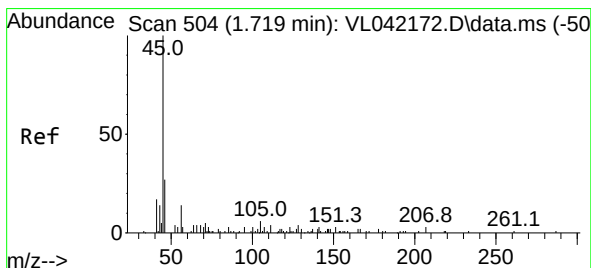
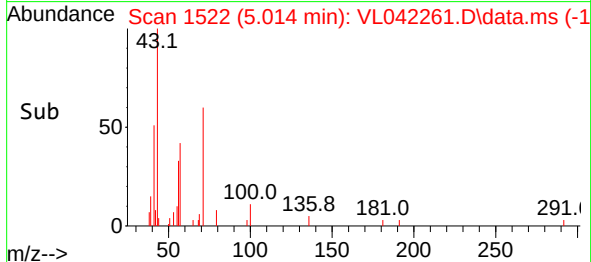
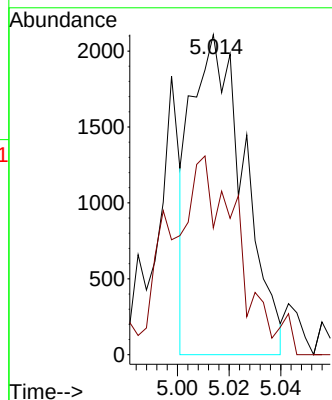
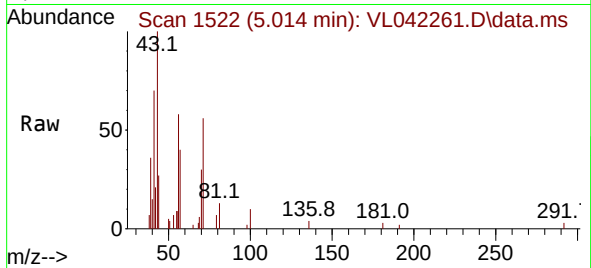




#10
Heptane
Concen: 0.103 ppbv
RT: 5.014 min Scan# 11
Delta R.T. 0.042 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

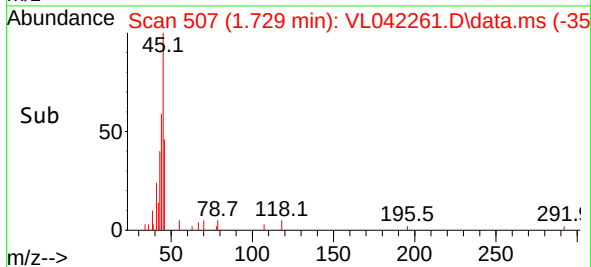
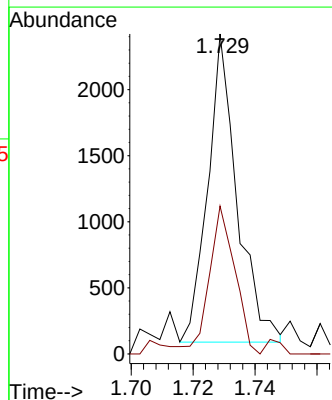
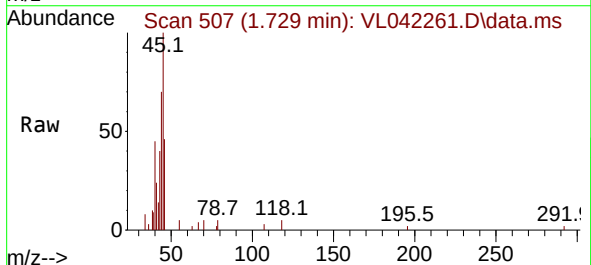
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025DL

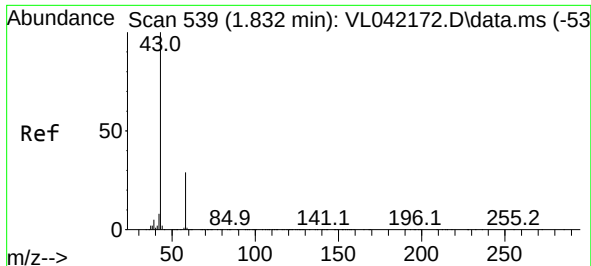
Tgt Ion: 43 Resp: 2996
Ion Ratio Lower Upper
43 100
57 82.2 39.4 59.2#



#13
Ethanol
Concen: 1.483 ppbv
RT: 1.729 min Scan# 507
Delta R.T. 0.010 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

Tgt Ion: 45 Resp: 1531
Ion Ratio Lower Upper
45 100
46 49.1 20.2 80.8





#15

Acetone

Concen: 10.188 ppbv

RT: 1.845 min Scan# 54

Delta R.T. 0.013 min

Lab File: VL042261.D

Acq: 08 Apr 2025 13:52

Instrument :

MSVOA_L

ClientSampleId :

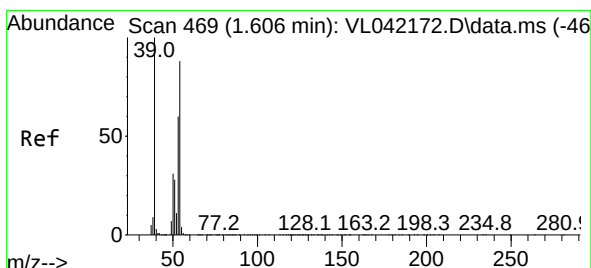
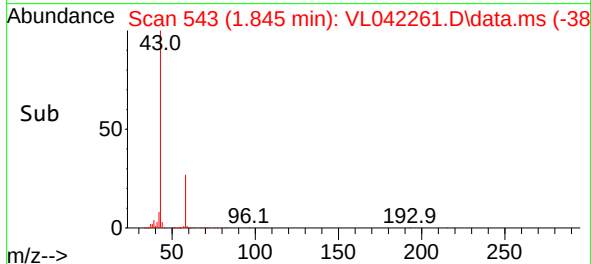
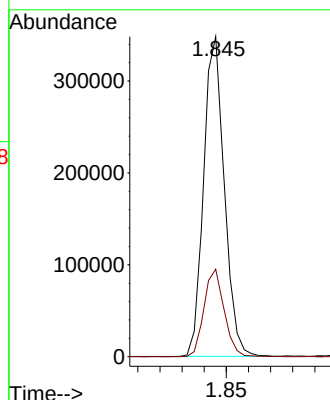
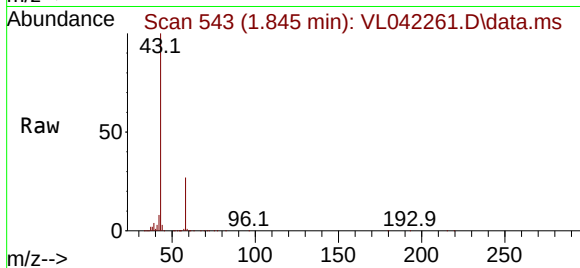
SSSG-B2-5-04022025DL

Tgt Ion: 43 Resp: 225134

Ion Ratio Lower Upper

43 100

58 26.7 23.2 34.8



#16

1,3-Butadiene

Concen: 0.572 ppbv

RT: 1.609 min Scan# 470

Delta R.T. 0.003 min

Lab File: VL042261.D

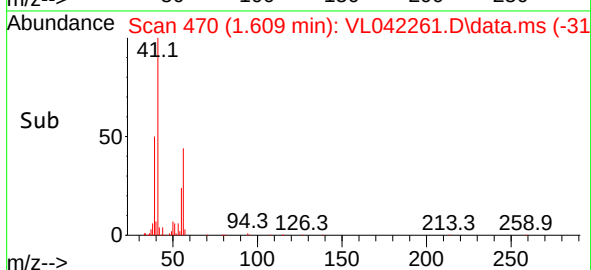
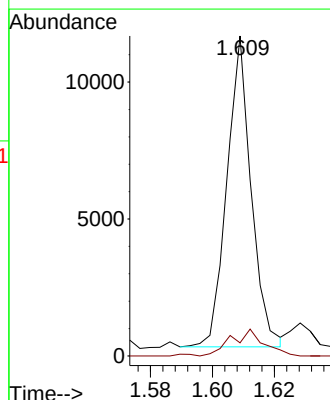
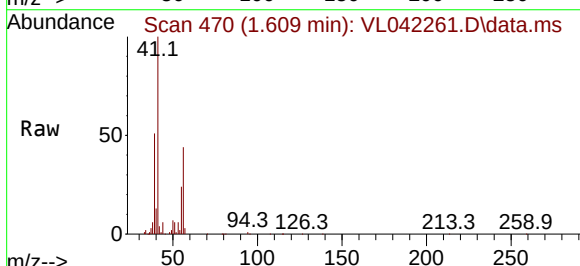
Acq: 08 Apr 2025 13:52

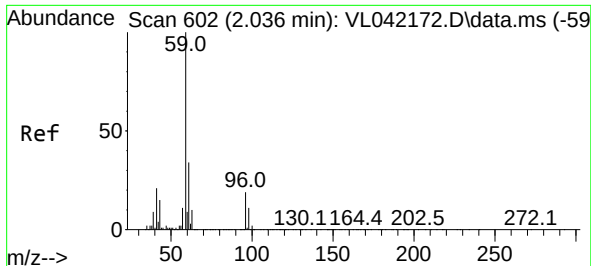
Tgt Ion: 39 Resp: 6177

Ion Ratio Lower Upper

39 100

54 11.9 60.7 91.1#

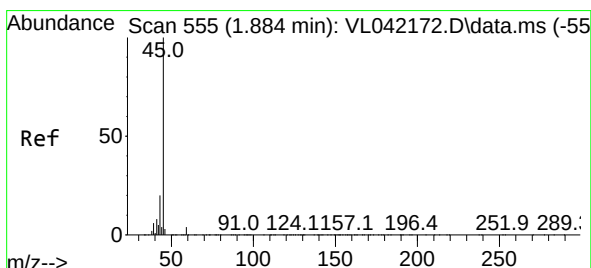
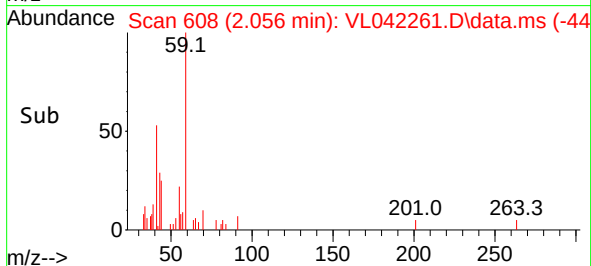
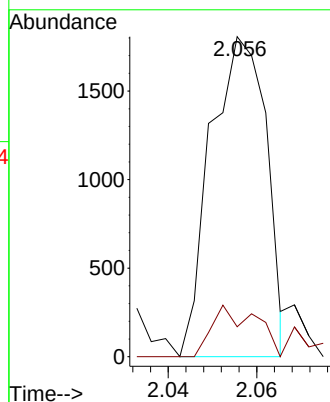
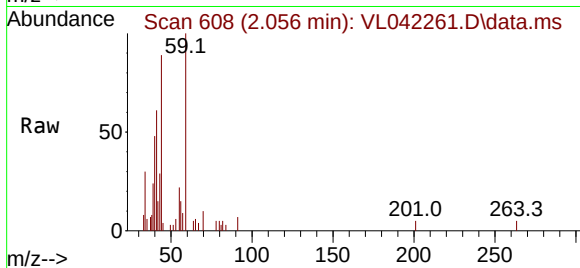




#17
tert-Butyl alcohol
Concen: 0.057 ppbv
RT: 2.056 min Scan# 602
Delta R.T. 0.019 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

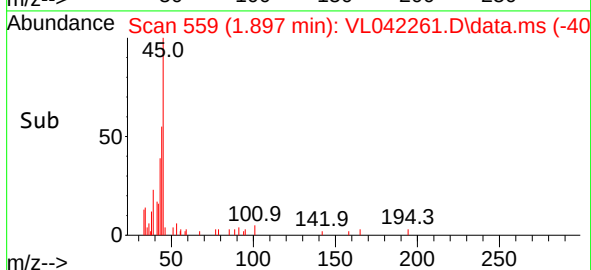
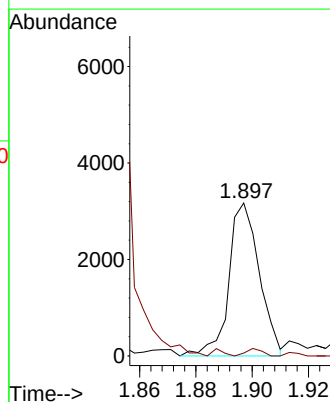
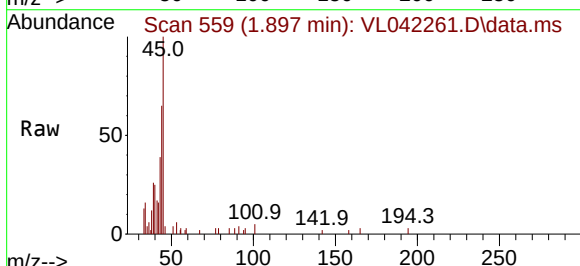
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025DL

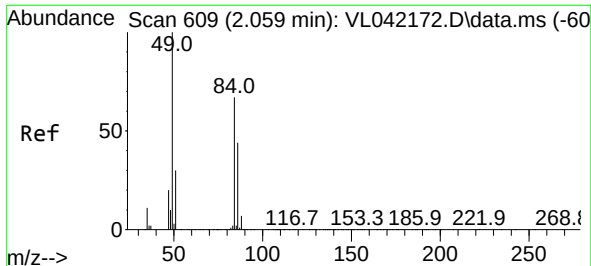
Tgt Ion: 59 Resp: 1582
Ion Ratio Lower Upper
59 100
57 17.0 8.9 13.3#



#19
Isopropyl Alcohol
Concen: 0.192 ppbv
RT: 1.897 min Scan# 559
Delta R.T. 0.013 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

Tgt Ion: 45 Resp: 2391
Ion Ratio Lower Upper
45 100
58 0.0 36.9 55.3#

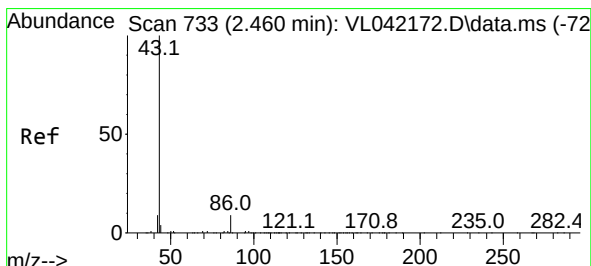
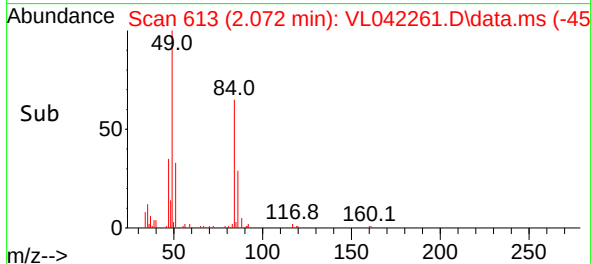
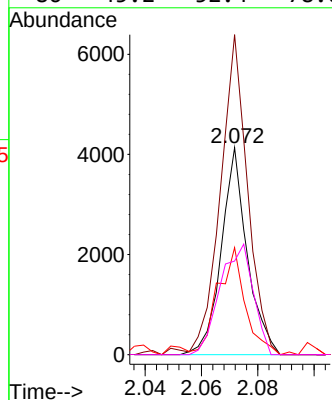
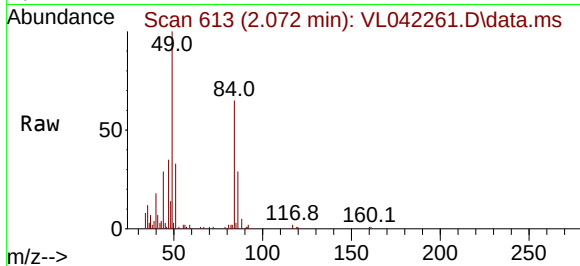




#20
Methylene Chloride
Concen: 0.322 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

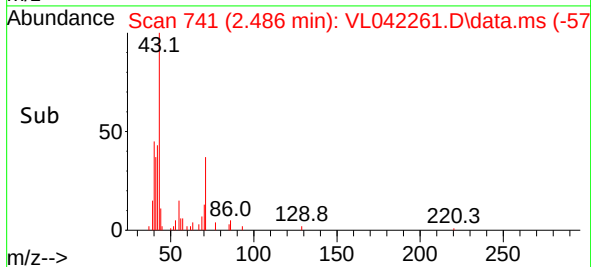
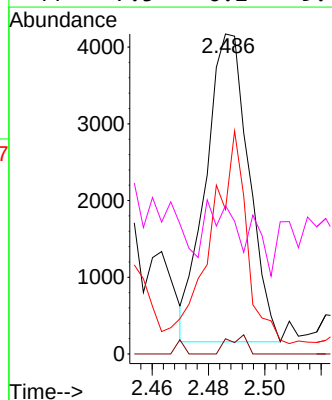
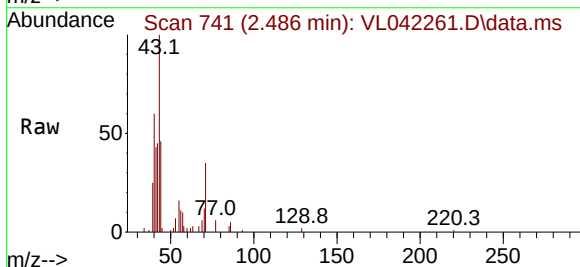
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B2-5-04022025DL

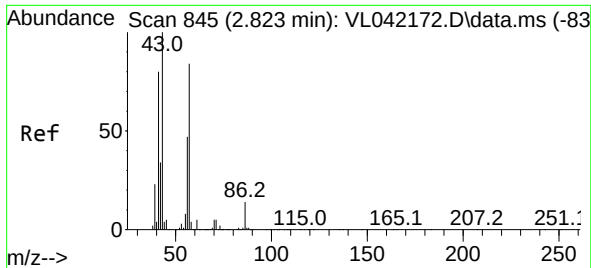
Tgt Ion:	84	Resp:	2648
Ion	Ratio	Lower	Upper
84	100		
49	158.8	120.2	180.4
51	51.7	37.4	56.0
86	45.2	52.4	78.6



#23
Vinyl Acetate
Concen: 0.445 ppbv
RT: 2.486 min Scan# 741
Delta R.T. 0.026 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

Tgt Ion:	43	Resp:	4252
Ion	Ratio	Lower	Upper
43	100		
86	4.9	5.5	8.3
42	38.5	8.6	13.0
44	7.5	6.2	9.4

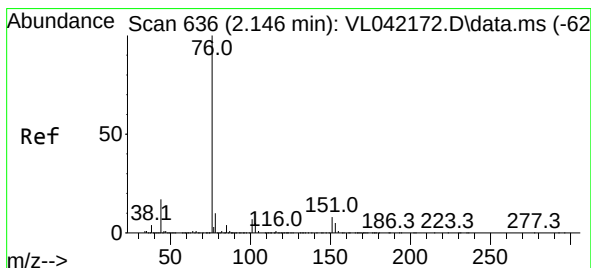
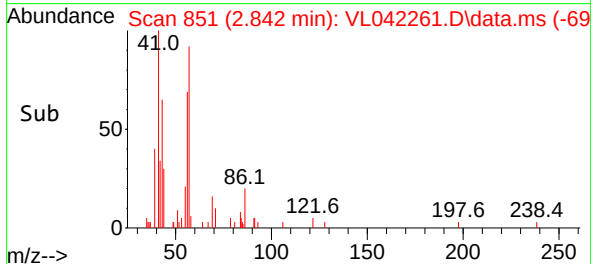
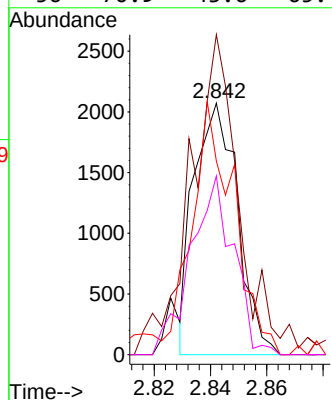
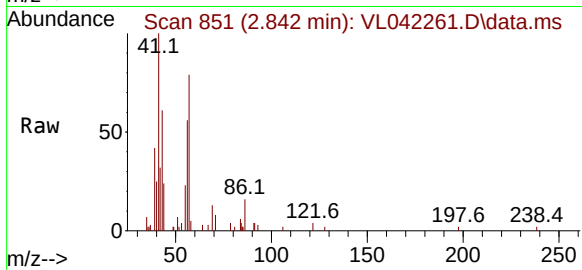




#26
Hexane
Concen: 0.101 ppbv
RT: 2.842 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

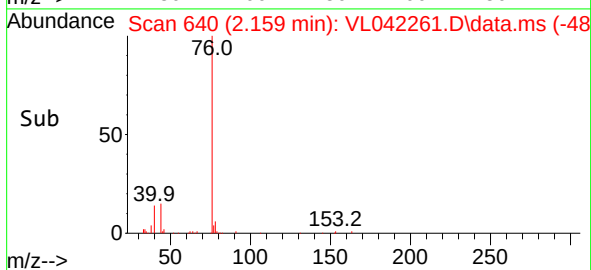
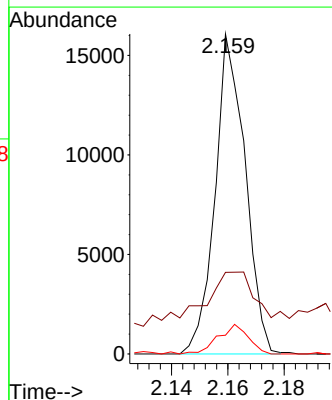
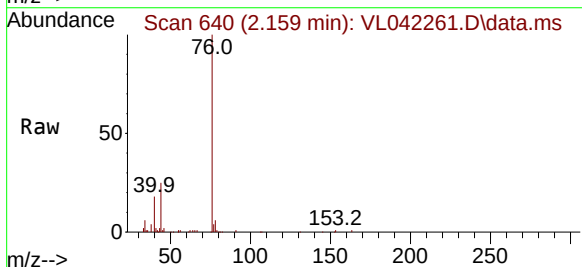
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025DL

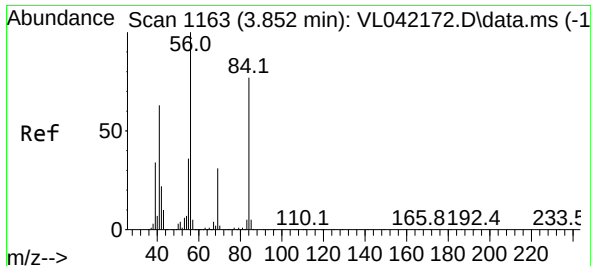
Tgt Ion: 57	Resp: 2234
Ion Ratio	Lower Upper
57 100	
41 169.1	76.6 114.8#
43 106.4	207.8 311.8#
56 70.9	43.6 65.4#



#27
Carbon Disulfide
Concen: 0.502 ppbv
RT: 2.159 min Scan# 640
Delta R.T. 0.013 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

Tgt Ion: 76	Resp: 11933
Ion Ratio	Lower Upper
76 100	
44 60.6	14.7 22.1#
78 10.1	9.3 13.9

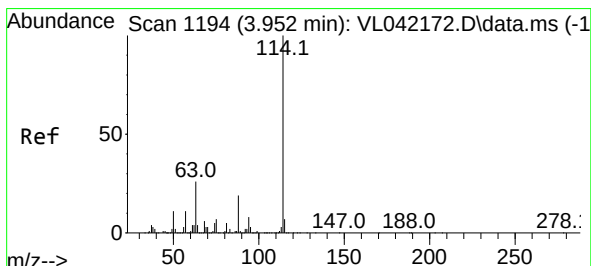
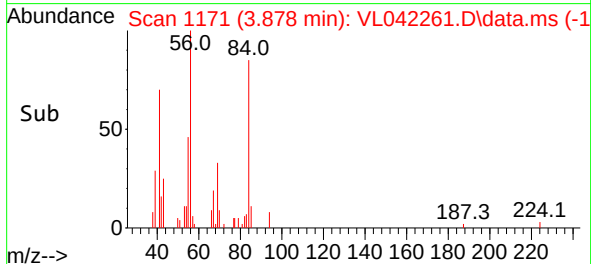
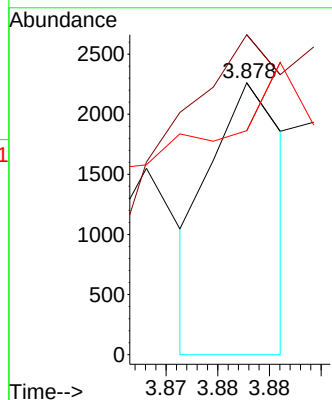
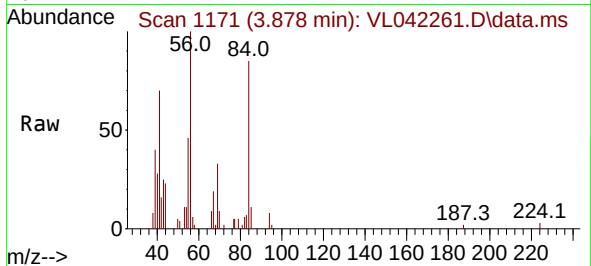




#30
Cyclohexane
Concen: 0.058 ppbv
RT: 3.878 min Scan# 1163
Delta R.T. 0.026 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

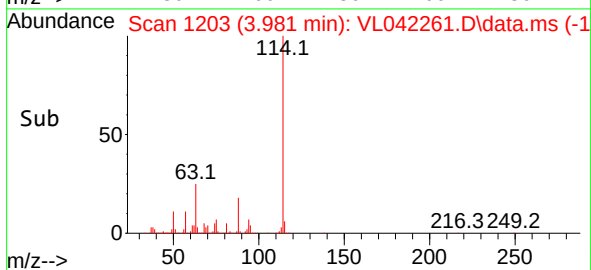
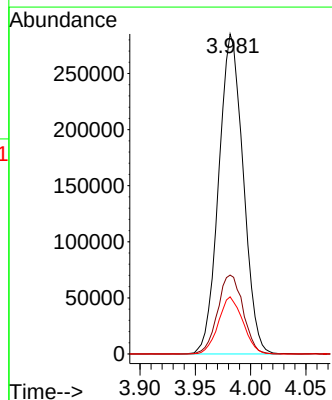
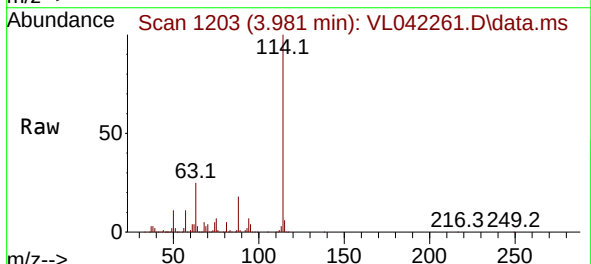
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025DL

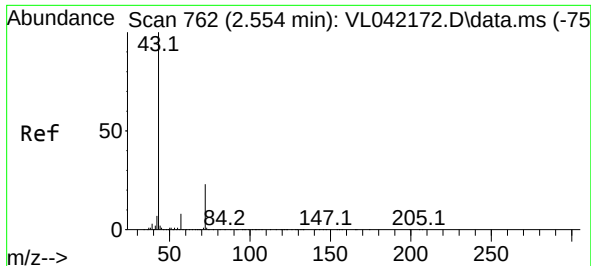
Tgt Ion: 84 Resp: 1113
Ion Ratio Lower Upper
84 100
56 401.4 102.8 154.2#
41 376.0 66.5 99.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.981 min Scan# 1203
Delta R.T. 0.029 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

Tgt Ion: 114 Resp: 439373
Ion Ratio Lower Upper
114 100
63 25.5 20.7 31.1
88 17.8 15.0 22.4

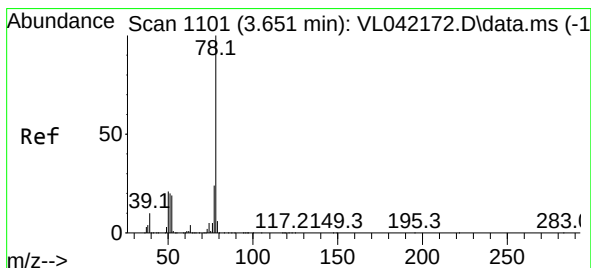
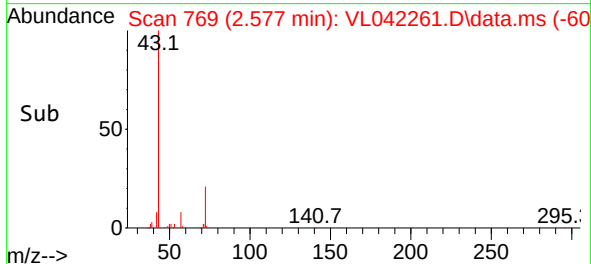
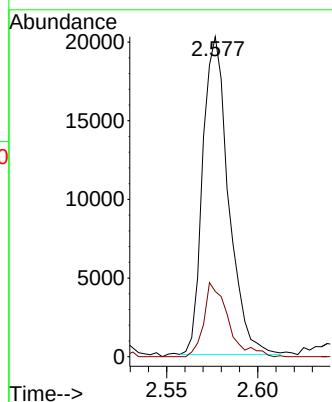
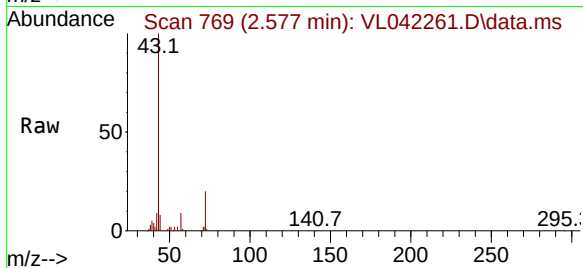




#34
2-Butanone
Concen: 0.627 ppbv
RT: 2.577 min Scan# 710
Delta R.T. 0.023 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

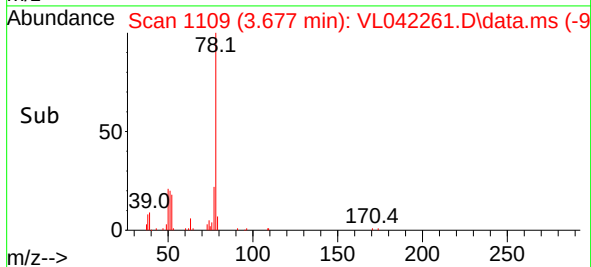
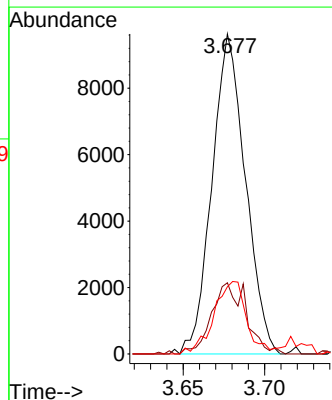
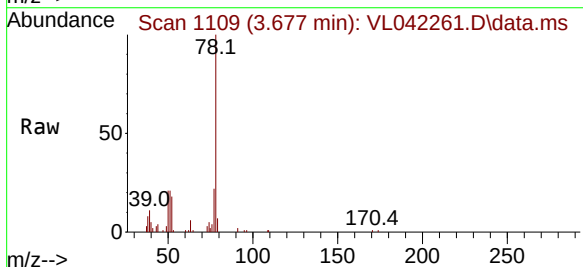
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025DL

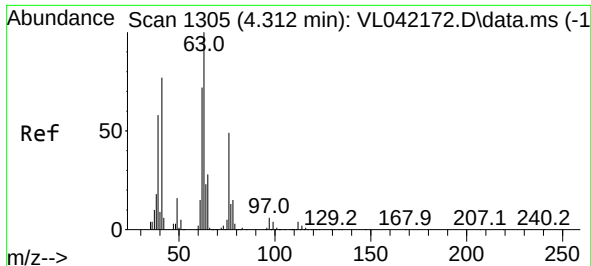
Tgt Ion: 43 Resp: 19969
Ion Ratio Lower Upper
43 100
72 21.9 18.2 27.2



#36
Benzene
Concen: 0.315 ppbv
RT: 3.677 min Scan# 1109
Delta R.T. 0.026 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

Tgt Ion: 78 Resp: 13713
Ion Ratio Lower Upper
78 100
77 22.3 19.1 28.7
50 21.0 16.6 24.8





#39

1,2-Dichloropropane

Concen: 7.062 ppbv

RT: 3.981 min Scan# 1120

Delta R.T. -0.330 min

Lab File: VL042261.D

Acq: 08 Apr 2025 13:52

Instrument :

MSVOA_1

ClientSampleId :

SSSG-B2-5-04022025DL

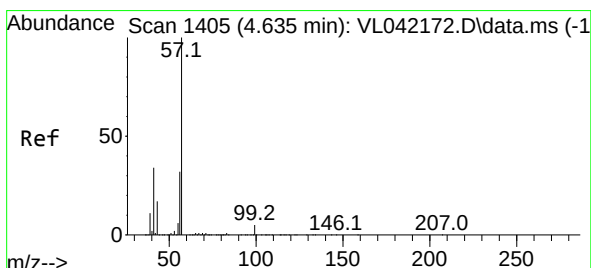
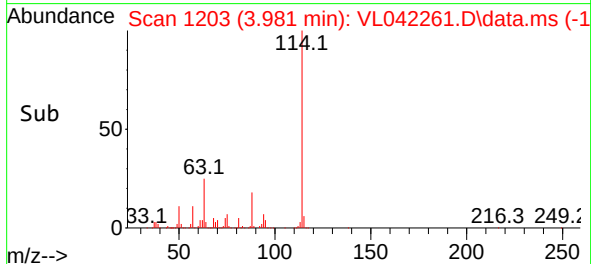
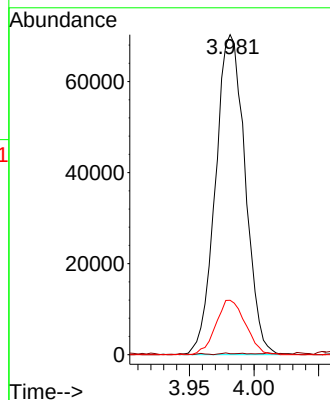
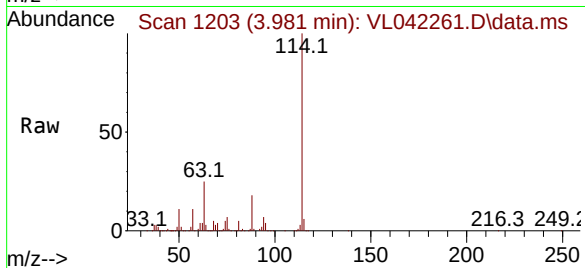
Tgt Ion: 63 Resp: 112028

Ion Ratio Lower Upper

63 100

41 0.0 61.7 92.5#

62 17.0 57.6 86.4#



#44

2,2,4-Trimethylpentane

Concen: 0.272 ppbv

RT: 4.668 min Scan# 1415

Delta R.T. 0.032 min

Lab File: VL042261.D

Acq: 08 Apr 2025 13:52

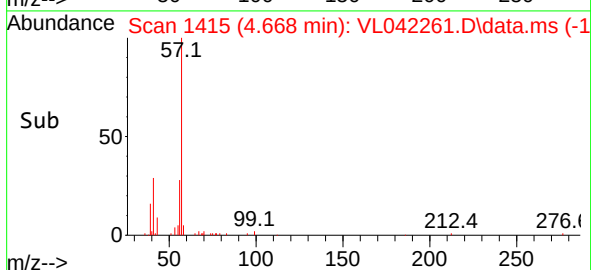
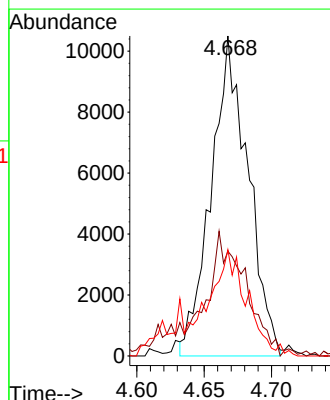
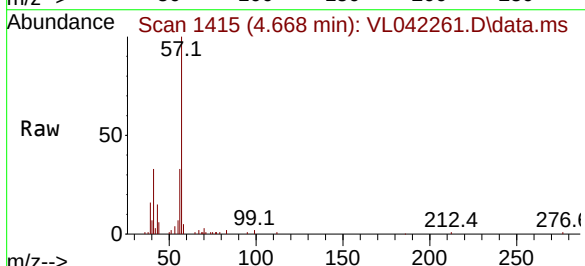
Tgt Ion: 57 Resp: 20025

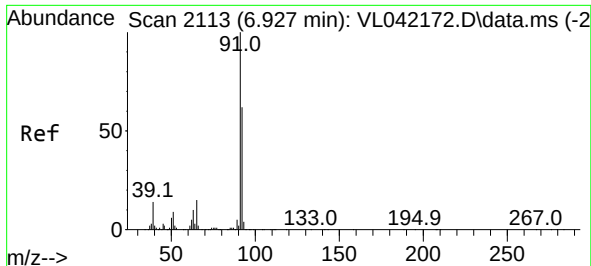
Ion Ratio Lower Upper

57 100

41 46.0 26.8 40.2#

56 43.0 25.6 38.4#

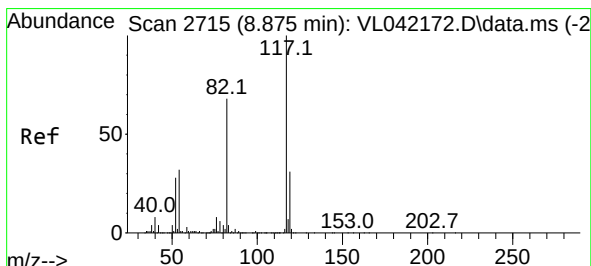
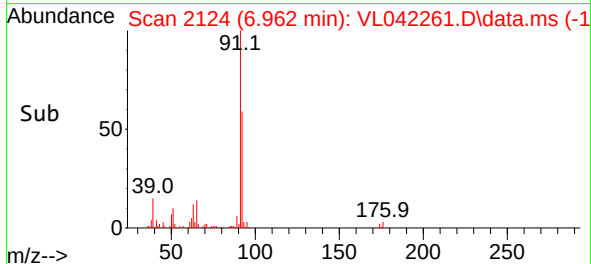
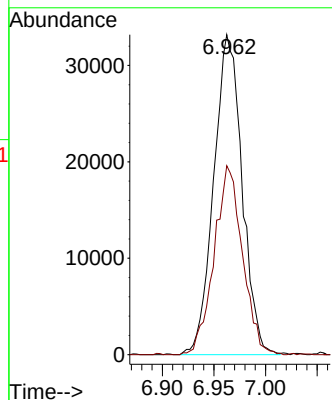
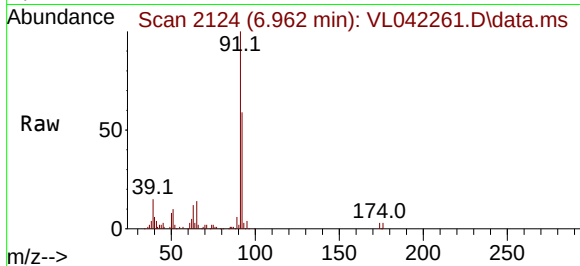




#53
Toluene
Concen: 1.227 ppbv
RT: 6.962 min Scan# 2113
Delta R.T. 0.035 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

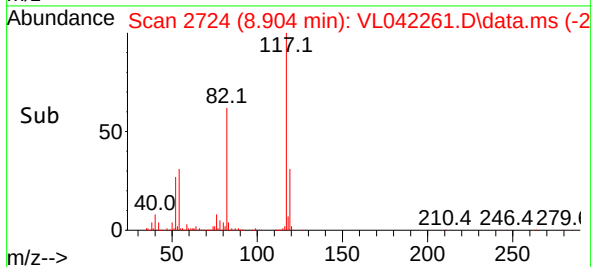
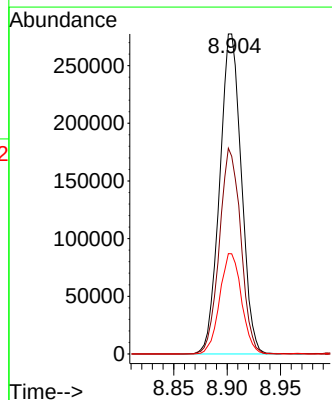
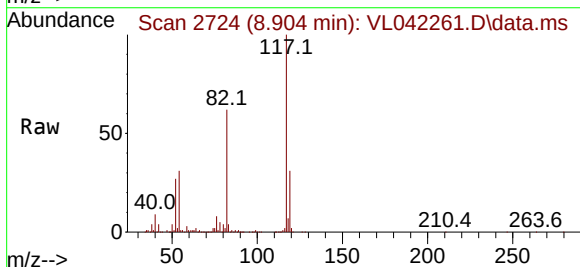
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025DL

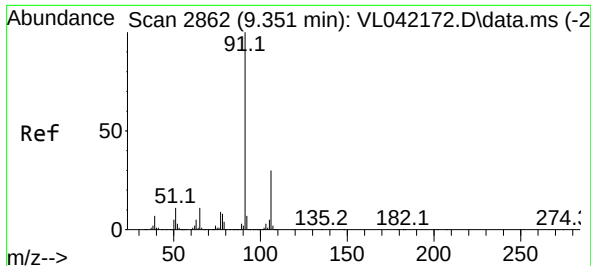
Tgt Ion: 91 Resp: 63357
Ion Ratio Lower Upper
91 100
92 59.1 48.4 72.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 2724
Delta R.T. 0.029 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

Tgt Ion: 117 Resp: 391568
Ion Ratio Lower Upper
117 100
82 63.5 55.8 83.6
119 31.6 25.5 38.3

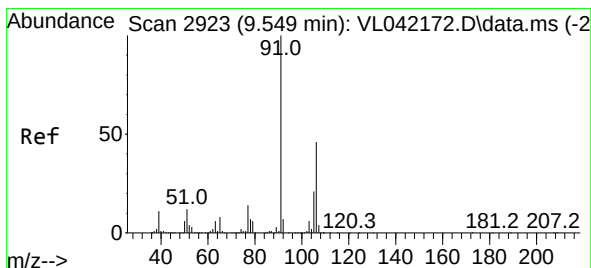
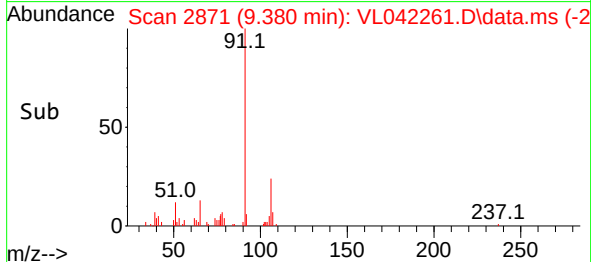
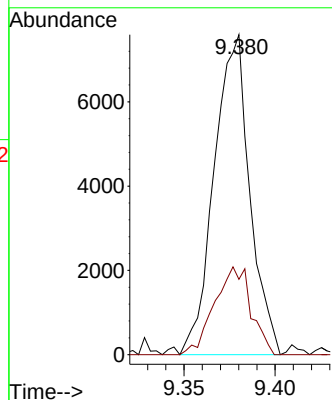
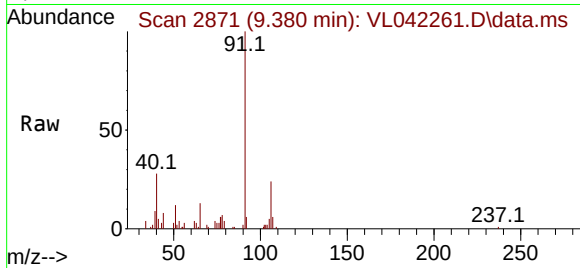




#58
Ethyl Benzene
Concen: 0.149 ppbv
RT: 9.380 min Scan# 21
Delta R.T. 0.029 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

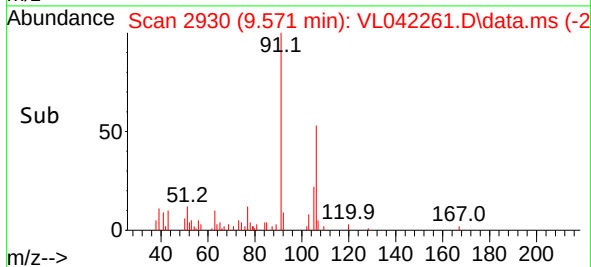
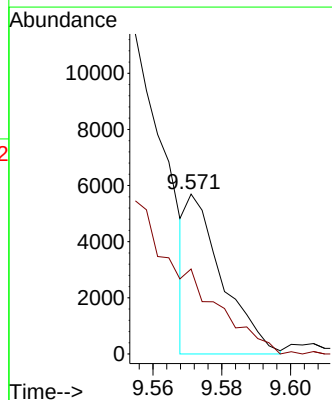
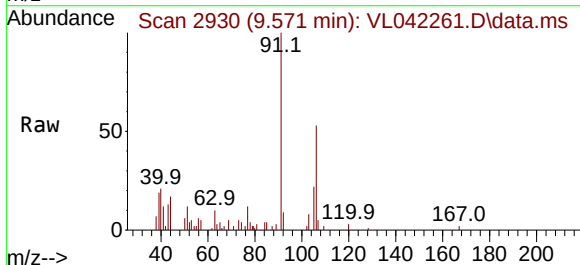
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B2-5-04022025DL

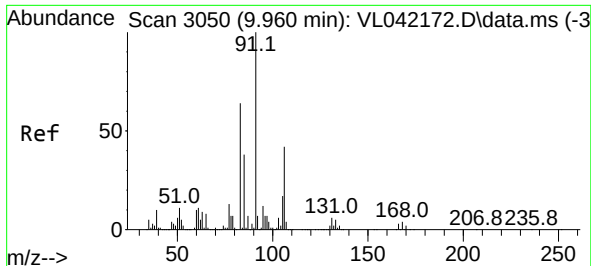
Tgt Ion: 91 Resp: 10341
Ion Ratio Lower Upper
91 100
106 23.6 24.2 36.2#



#59
m/p-Xylene
Concen: 0.074 ppbv
RT: 9.571 min Scan# 2930
Delta R.T. 0.023 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

Tgt Ion: 91 Resp: 4118
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6#

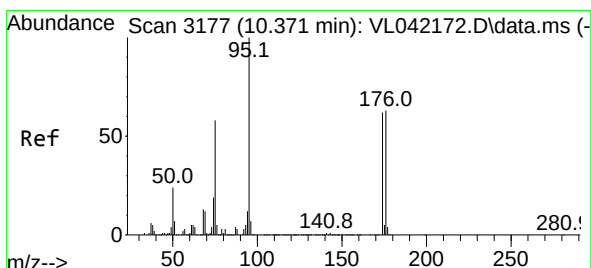
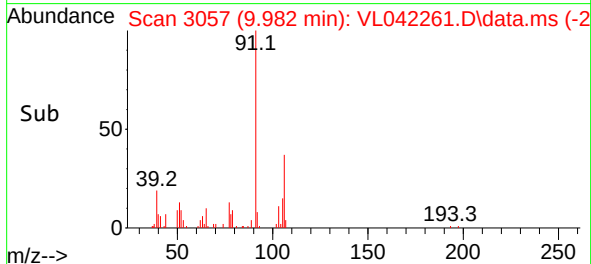
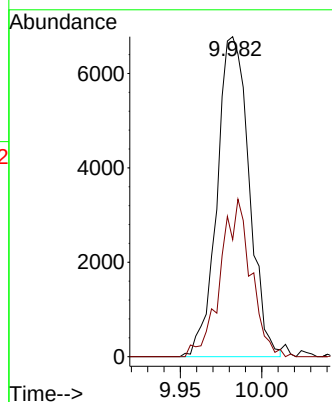
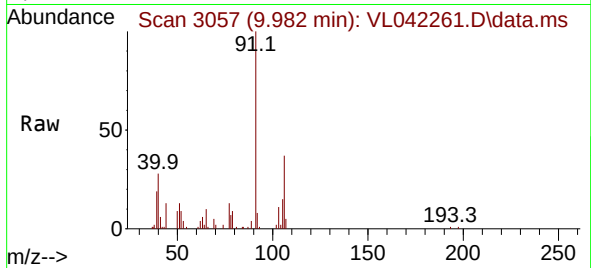




#60
o-Xylene
Concen: 0.167 ppbv
RT: 9.982 min Scan# 3057
Delta R.T. 0.023 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

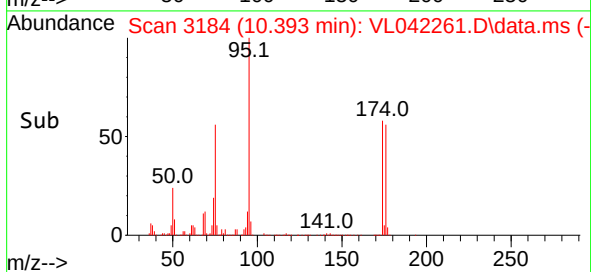
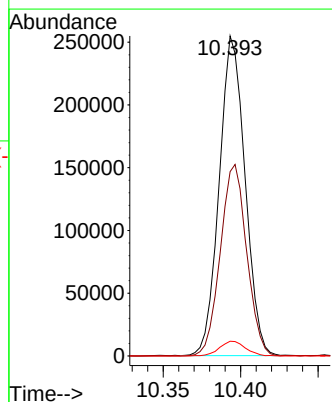
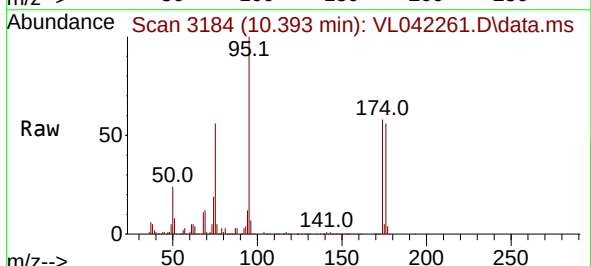
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-5-04022025DL

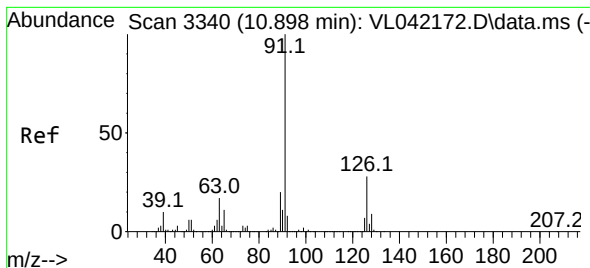
Tgt Ion: 91 Resp: 9278
Ion Ratio Lower Upper
91 100
106 47.0 20.8 62.5



#68
1-Bromo-4-Fluorobenzene
Concen: 9.197 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. 0.023 min
Lab File: VL042261.D
Acq: 08 Apr 2025 13:52

Tgt Ion: 95 Resp: 295748
Ion Ratio Lower Upper
95 100
174 61.4 50.6 76.0
175 4.7 3.8 5.6





#71

2-Chlorotoluene

Concen: 0.109 ppbv

RT: 10.918 min Scan# 31

Delta R.T. 0.019 min

Lab File: VL042261.D

Acq: 08 Apr 2025 13:52

Instrument :

MSVOA_L

ClientSampleId :

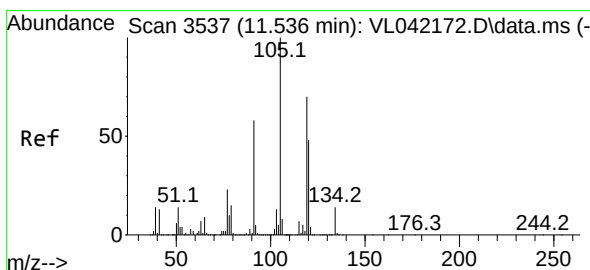
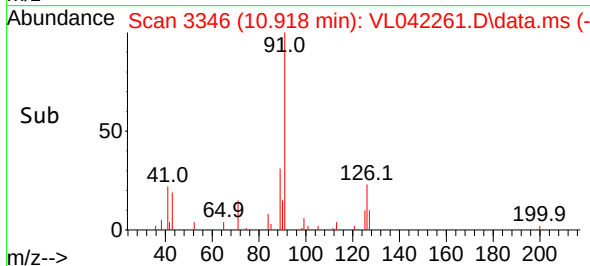
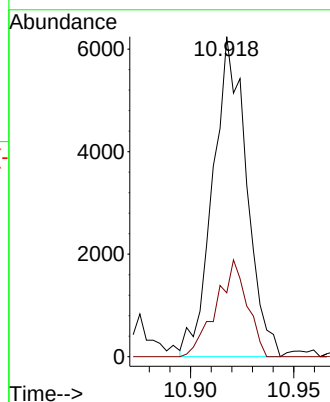
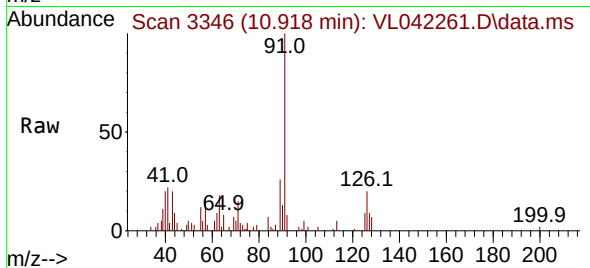
SSSG-B2-5-04022025DL

Tgt Ion: 91 Resp: 7066

Ion Ratio Lower Upper

91 100

126 27.9 11.6 46.4



#74

1,2,4-Trimethylbenzene

Concen: 0.047 ppbv

RT: 11.549 min Scan# 3541

Delta R.T. 0.013 min

Lab File: VL042261.D

Acq: 08 Apr 2025 13:52

Tgt Ion: 105 Resp: 3259

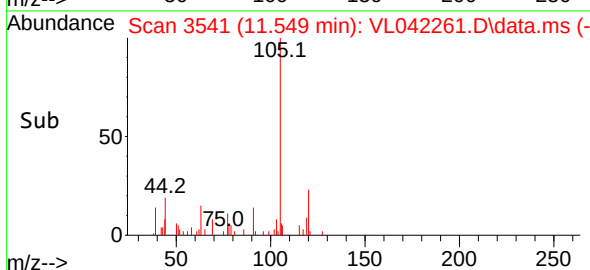
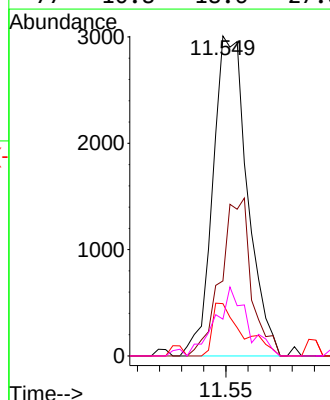
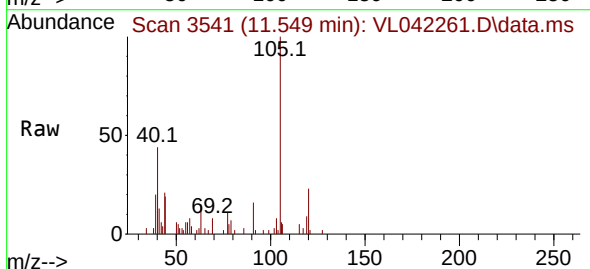
Ion Ratio Lower Upper

105 100

120 23.9 38.6 58.0#

91 15.4 46.2 69.2#

77 10.8 18.6 27.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042263.D
 Acq On : 08 Apr 2025 14:53
 Operator : SY/MD
 Sample : Q1728-08 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-4-04022025

Quant Time: Apr 09 01:56:00 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

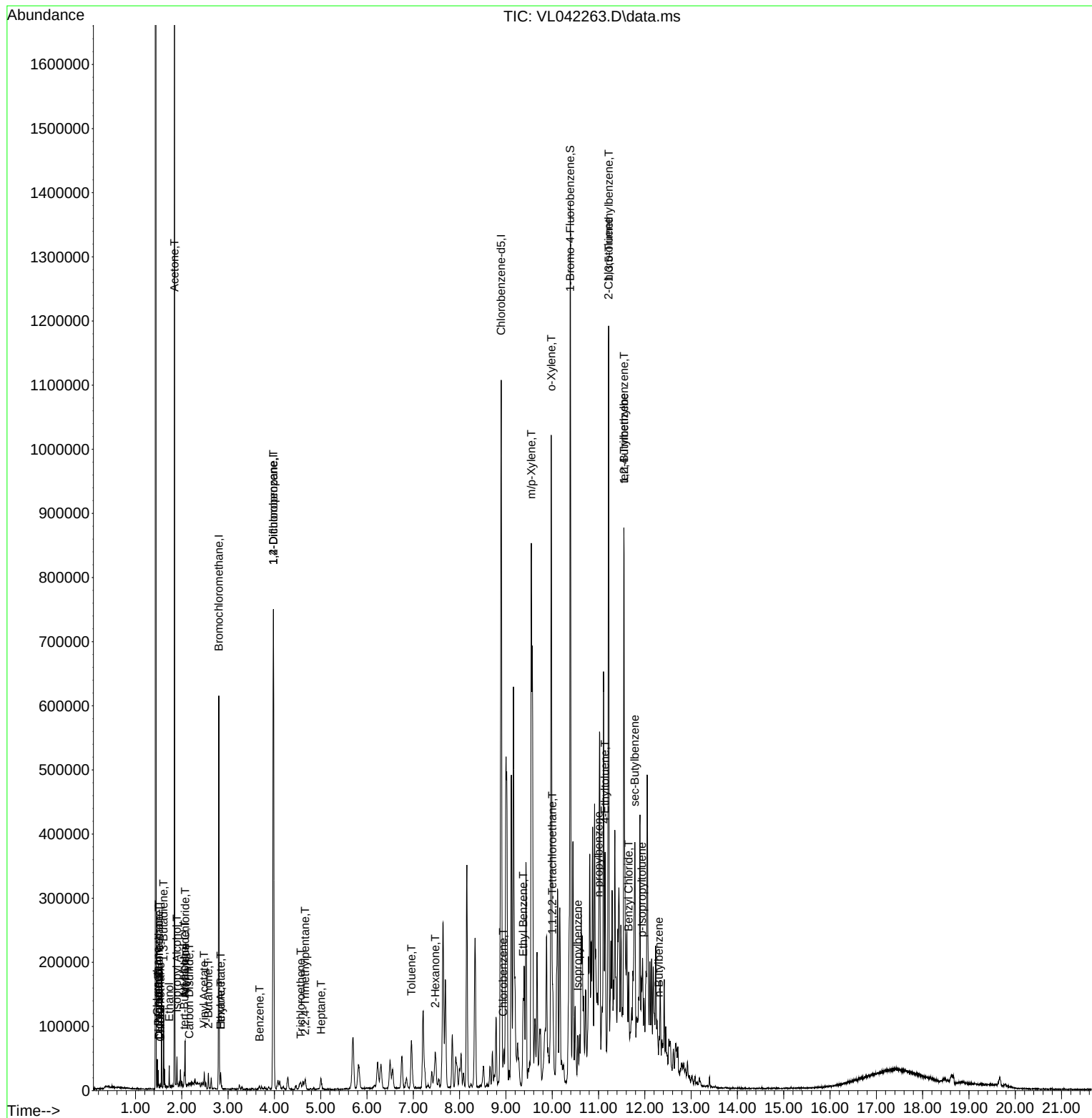
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

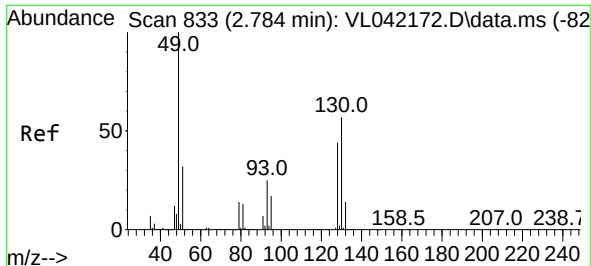
Internal Standards						
1) Bromochloromethane	2.800	49	164494	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.978	114	443030	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.898	117	423016	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	330470	9.513	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.505	85	1109	0.046	ppbv #	82
4) Chloromethane	1.538	50	775	0.078	ppbv #	85
7) Chloroethane	1.470	64	3278	0.823	ppbv #	43
8) Dichlorotetrafluoroethane	1.505	85	1109	0.054	ppbv #	17
9) Propene	1.492	41	2802	0.246	ppbv #	15
10) Heptane	5.007	43	3379	0.112	ppbv #	23
13) Ethanol	1.729	45	9619	8.947	ppbv	86
15) Acetone	1.842	43	776044	33.733	ppbv	97
16) 1,3-Butadiene	1.606	39	13867	1.234	ppbv #	20
17) tert-Butyl alcohol	2.052	59	7402	0.258	ppbv	94
19) Isopropyl Alcohol	1.894	45	19147	1.475	ppbv #	1
20) Methylene Chloride	2.072	84	10209	1.192	ppbv	97
21) Allyl Chloride	2.068	41	585	0.036	ppbv #	28
23) Vinyl Acetate	2.483	43	6715	0.674	ppbv #	54
25) Ethyl Acetate	2.842	43	5082	0.085	ppbv #	81
26) Hexane	2.842	57	5541	0.240	ppbv #	39
27) Carbon Disulfide	2.159	76	1809	0.073	ppbv #	6
34) 2-Butanone	2.573	43	14609	0.455	ppbv	99
36) Benzene	3.677	78	2129	0.048	ppbv #	79
38) Trichloroethene	4.574	130	734	0.040	ppbv #	61
39) 1,2-Dichloropropane	3.978	63	113032	7.067	ppbv #	23
44) 2,2,4-Trimethylpentane	4.661	57	11216	0.151	ppbv #	80
51) 2-Hexanone	7.474	43	12863	0.308	ppbv #	42
53) Toluene	6.959	91	48553	0.933	ppbv	98
57) Chlorobenzene	8.943	112	1636	0.041	ppbv #	60
58) Ethyl Benzene	9.370	91	53186	0.708	ppbv	97
59) m/p-Xylene	9.548	91	591775	9.863	ppbv	100
60) o-Xylene	9.979	91	449997	7.482	ppbv	97
62) Isopropylbenzene	10.552	105	25164	0.280	ppbv	99
63) 1,1,2,2-Tetrachloroethane	10.001	83	2403	0.066	ppbv #	25
64) n-propylbenzene	11.002	120	6217	0.269	ppbv	65
65) tert-Butylbenzene	11.549	119	35615	0.428	ppbv #	74
66) Benzyl Chloride	11.649	91	1117	0.127	ppbv #	58
67) sec-Butylbenzene	11.782	105	14275	0.123	ppbv #	53
69) p-Isopropyltoluene	11.940	119	15445	0.155	ppbv	94
70) n-Butylbenzene	12.303	91	4674	0.046	ppbv #	1
71) 2-Chlorotoluene	11.215	91	26381	0.378	ppbv	79
72) 4-Ethyltoluene	11.138	105	97907	1.307	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.218	105	211978	3.241	ppbv	99
74) 1,2,4-Trimethylbenzene	11.549	105	284630	3.777	ppbv #	65

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

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025

Quant Time: Apr 09 01:56:00 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

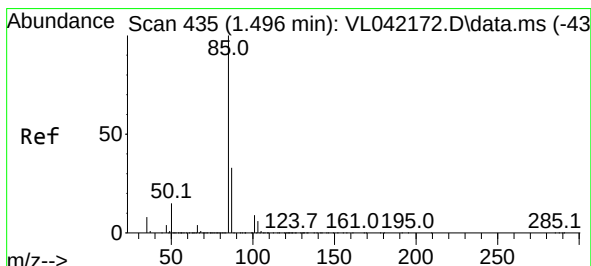
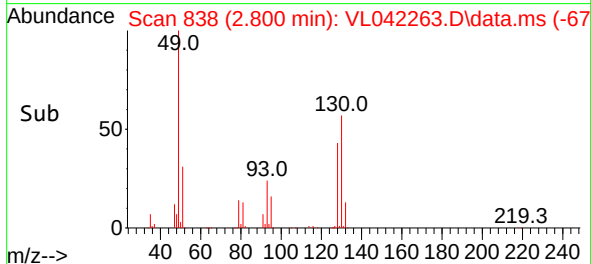
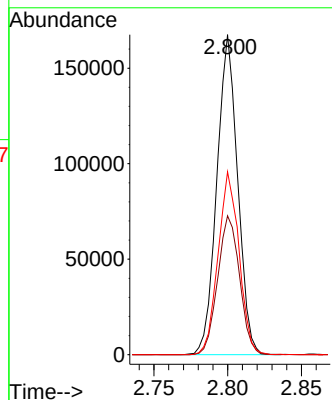
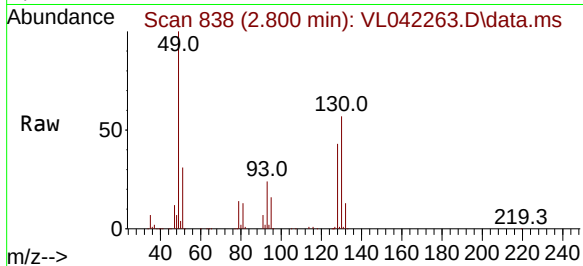




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

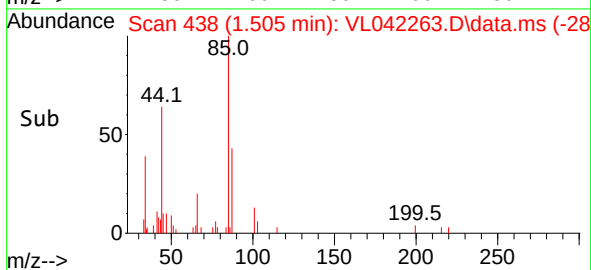
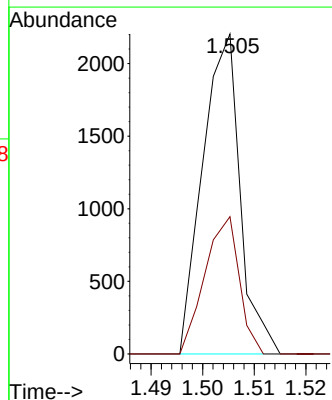
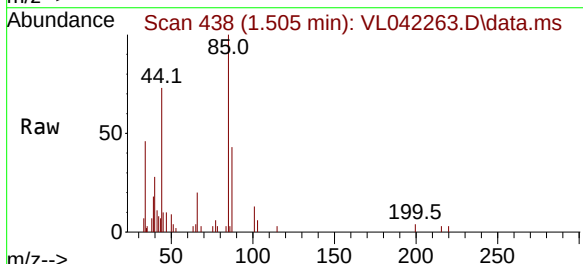
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025

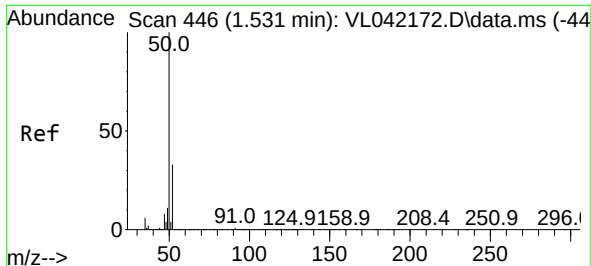
Tgt Ion: 49 Resp: 164494
Ion Ratio Lower Upper
49 100
128 45.6 22.9 68.5
130 57.5 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.046 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.010 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

Tgt Ion: 85 Resp: 1109
Ion Ratio Lower Upper
85 100
87 42.9 26.1 39.1#

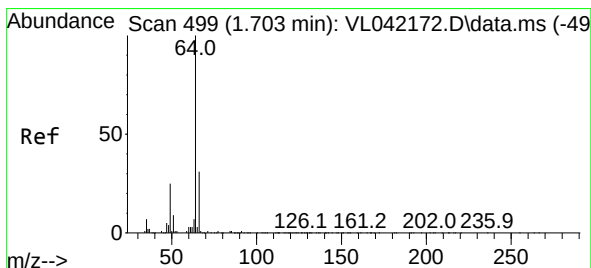
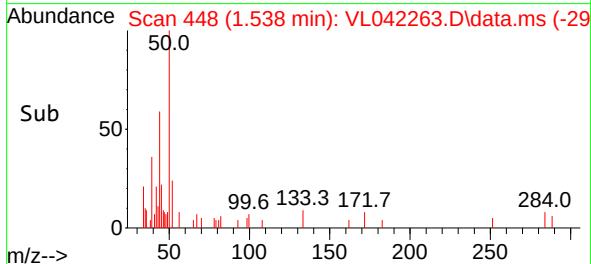
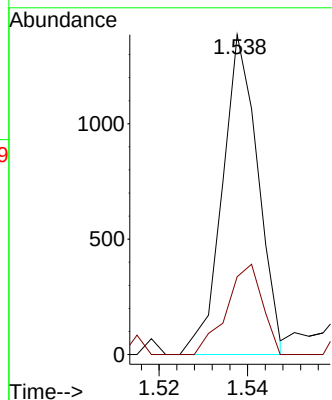
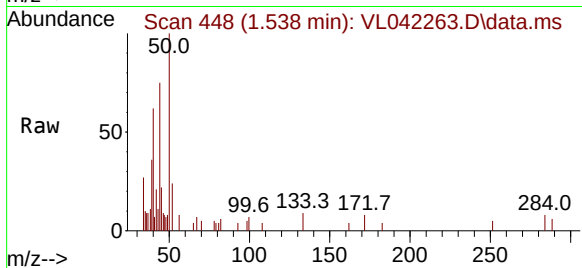




#4
Chloromethane
Concen: 0.078 ppbv
RT: 1.538 min Scan# 446
Delta R.T. 0.006 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

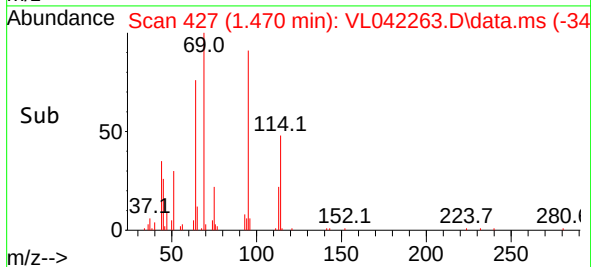
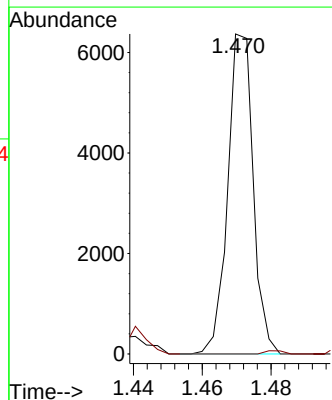
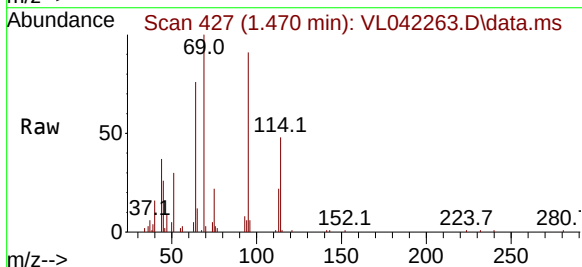
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025

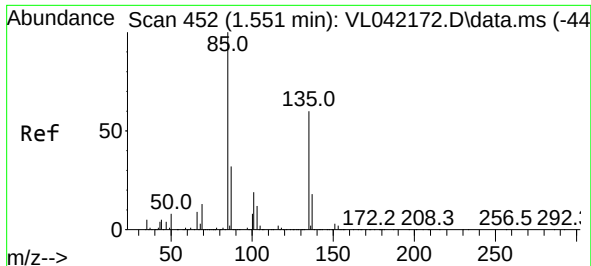
Tgt Ion: 50 Resp: 775
Ion Ratio Lower Upper
50 100
52 24.3 26.1 39.1#



#7
Chloroethane
Concen: 0.823 ppbv
RT: 1.470 min Scan# 427
Delta R.T. -0.233 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

Tgt Ion: 64 Resp: 3278
Ion Ratio Lower Upper
64 100
66 0.0 25.2 37.8#

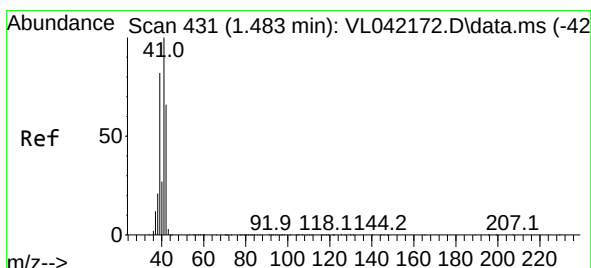
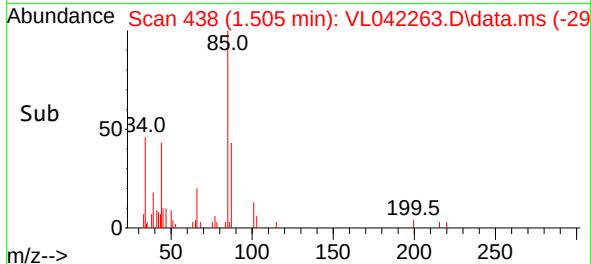
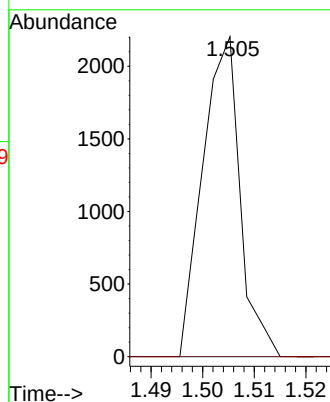
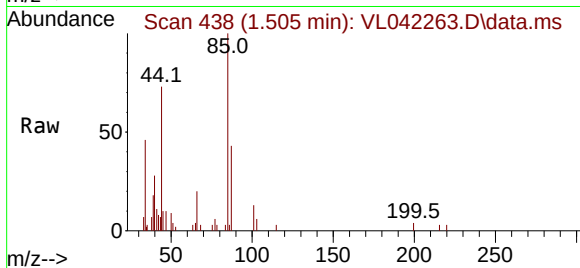




#8
Dichlorotetrafluoroethane
Concen: 0.054 ppbv
RT: 1.505 min Scan# 411
Delta R.T. -0.046 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

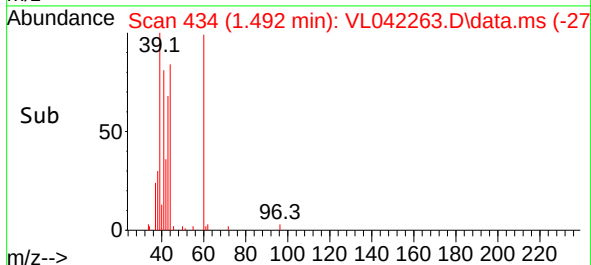
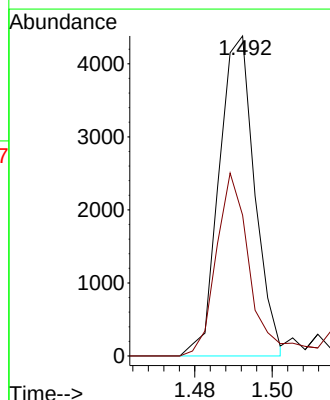
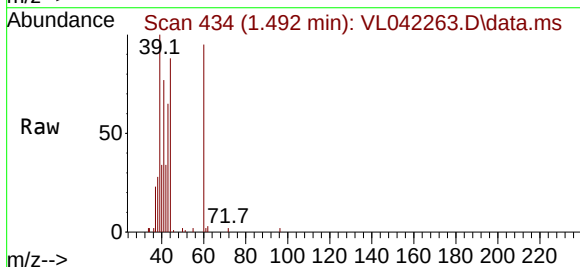
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025

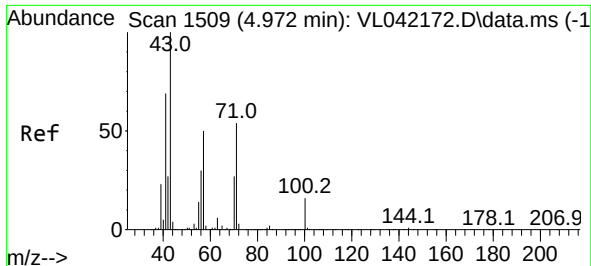
Tgt Ion: 85 Resp: 1109
Ion Ratio Lower Upper
85 100
135 0.0 52.4 78.6#



#9
Propene
Concen: 0.246 ppbv
RT: 1.492 min Scan# 434
Delta R.T. 0.010 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

Tgt Ion: 41 Resp: 2802
Ion Ratio Lower Upper
41 100
42 0.0 55.4 83.2#

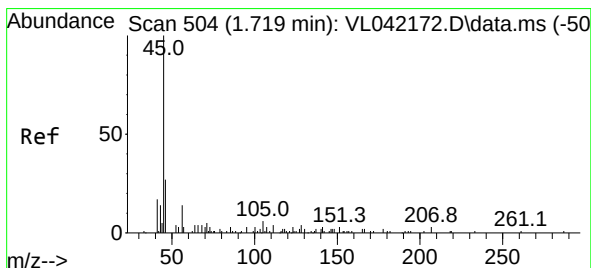
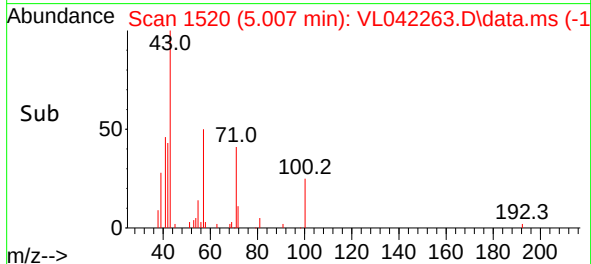
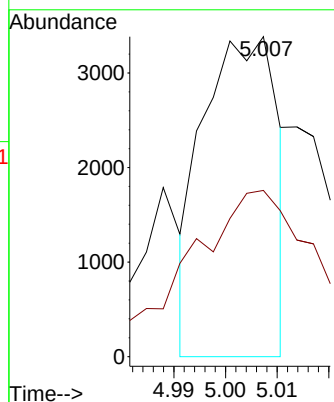
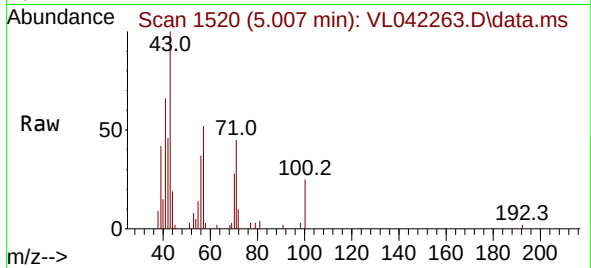




#10
Heptane
Concen: 0.112 ppbv
RT: 5.007 min Scan# 11
Delta R.T. 0.035 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

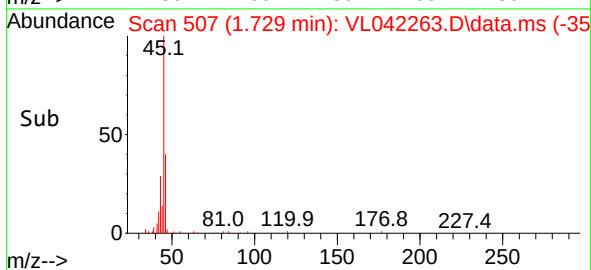
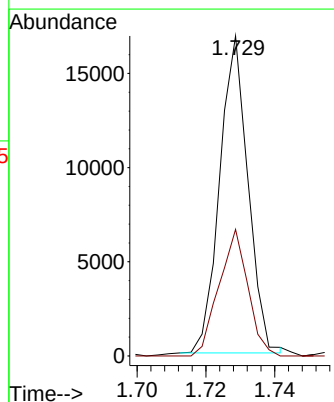
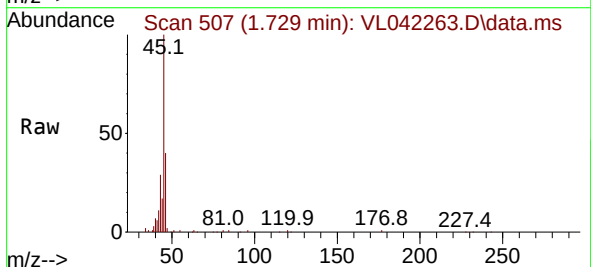
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025

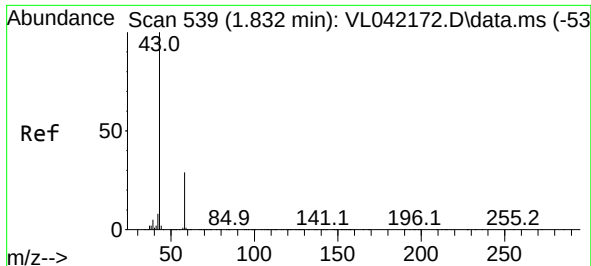
Tgt Ion: 43 Resp: 3379
Ion Ratio Lower Upper
43 100
57 102.1 39.4 59.2#



#13
Ethanol
Concen: 8.947 ppbv
RT: 1.729 min Scan# 507
Delta R.T. 0.010 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

Tgt Ion: 45 Resp: 9619
Ion Ratio Lower Upper
45 100
46 40.8 20.2 80.8





#15

Acetone

Concen: 33.733 ppbv

RT: 1.842 min Scan# 54

Delta R.T. 0.010 min

Lab File: VL042263.D

Acq: 08 Apr 2025 14:53

Instrument :

MSVOA_L

ClientSampleId :

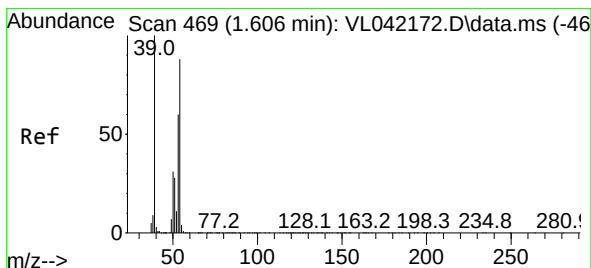
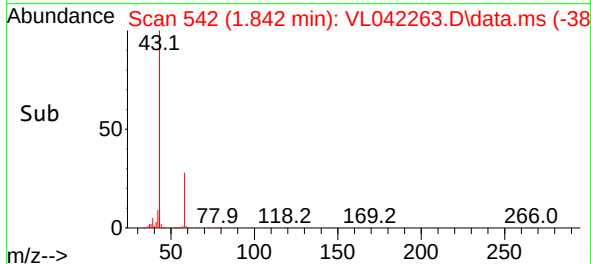
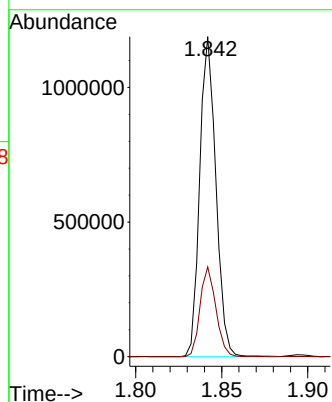
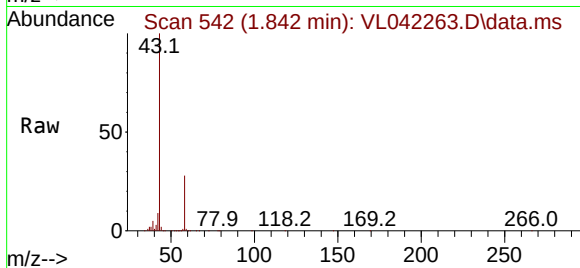
SSSG-B2-4-04022025

Tgt Ion: 43 Resp: 776044

Ion Ratio Lower Upper

43 100

58 27.5 23.2 34.8



#16

1,3-Butadiene

Concen: 1.234 ppbv

RT: 1.606 min Scan# 469

Delta R.T. -0.000 min

Lab File: VL042263.D

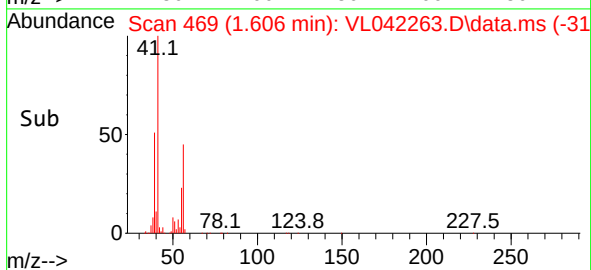
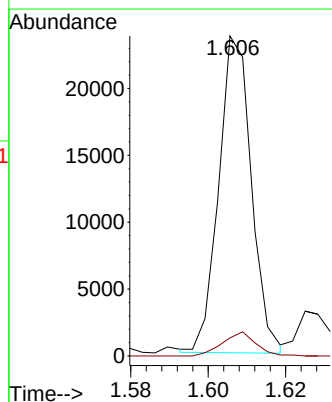
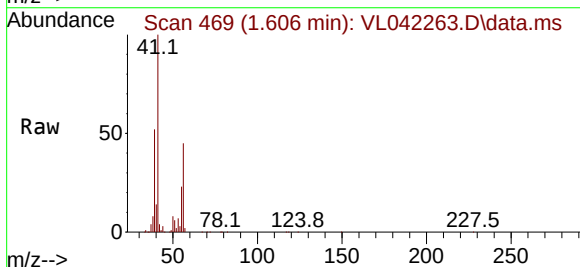
Acq: 08 Apr 2025 14:53

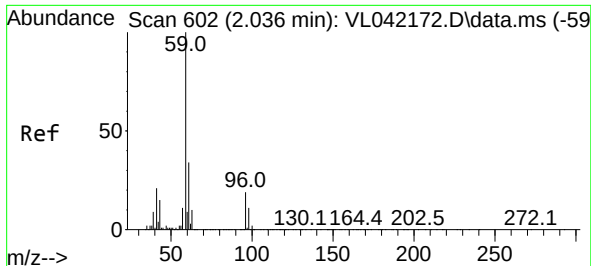
Tgt Ion: 39 Resp: 13867

Ion Ratio Lower Upper

39 100

54 7.7 60.7 91.1#





#17

tert-Butyl alcohol

Concen: 0.258 ppbv

RT: 2.052 min Scan# 602

Delta R.T. 0.016 min

Lab File: VL042263.D

Acq: 08 Apr 2025 14:53

Instrument :

MSVOA_1

ClientSampleId :

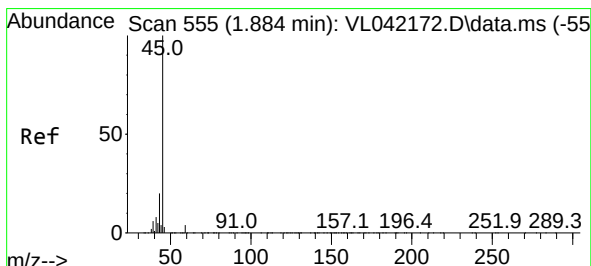
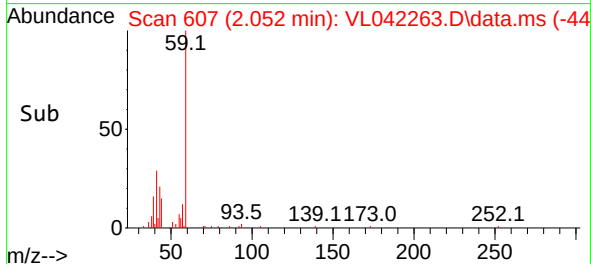
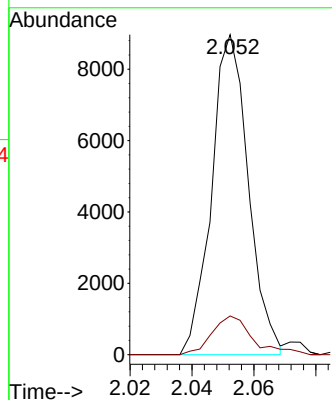
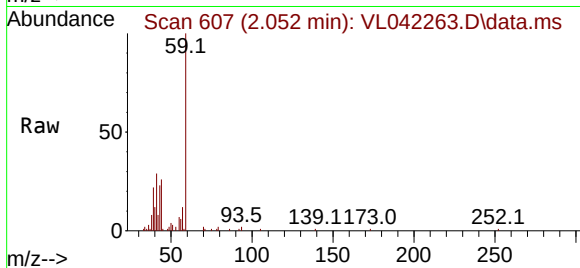
SSSG-B2-4-04022025

Tgt Ion: 59 Resp: 7402

Ion Ratio Lower Upper

59 100

57 13.3 8.9 13.3



#19

Isopropyl Alcohol

Concen: 1.475 ppbv

RT: 1.894 min Scan# 558

Delta R.T. 0.010 min

Lab File: VL042263.D

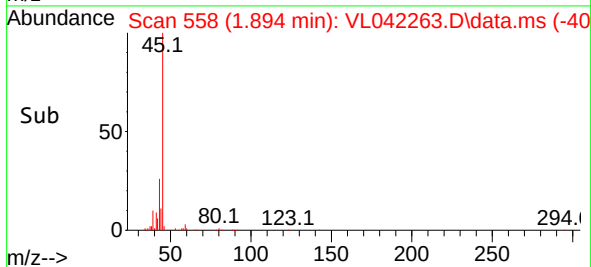
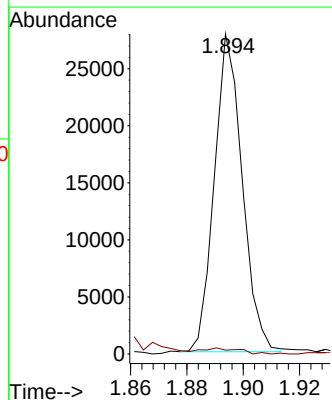
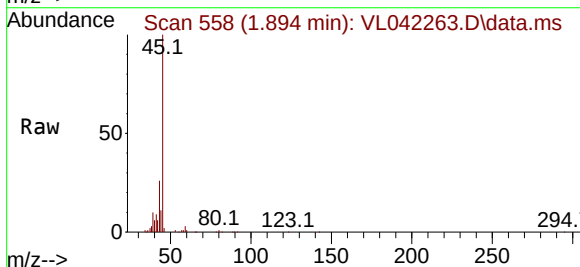
Acq: 08 Apr 2025 14:53

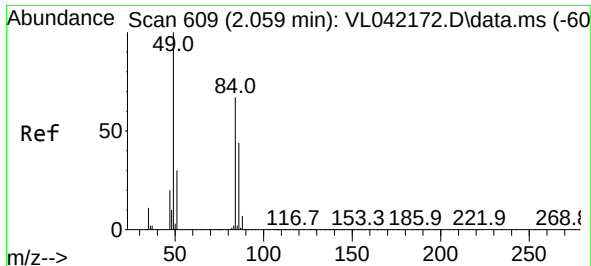
Tgt Ion: 45 Resp: 19147

Ion Ratio Lower Upper

45 100

58 1113.8 36.9 55.3#

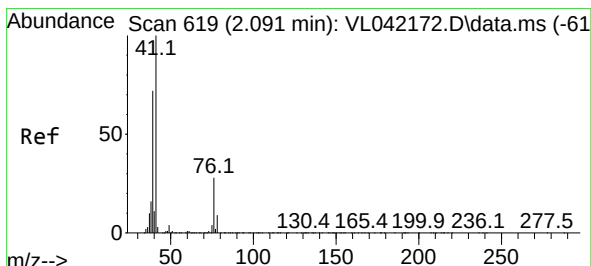
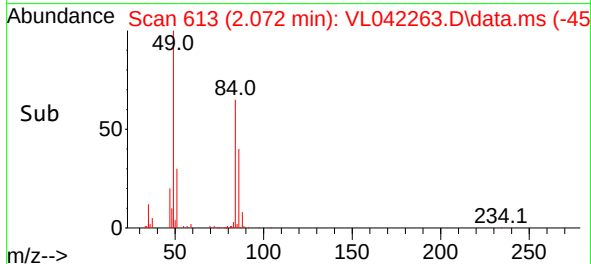
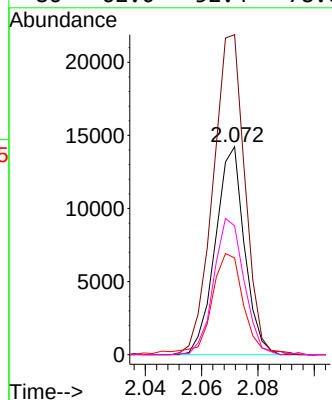
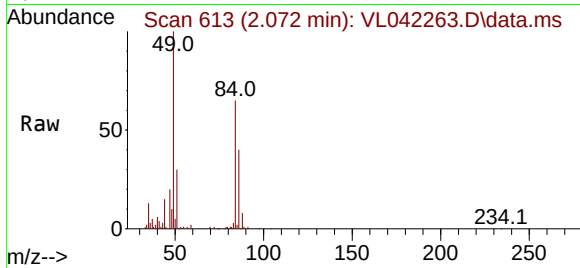




#20
Methylene Chloride
Concen: 1.192 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

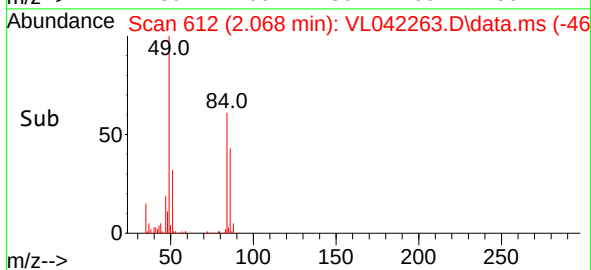
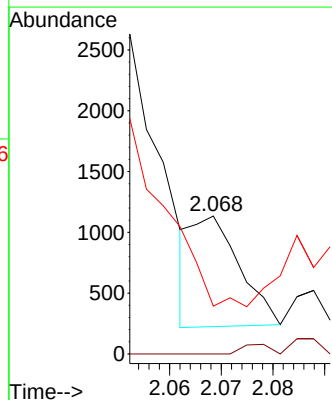
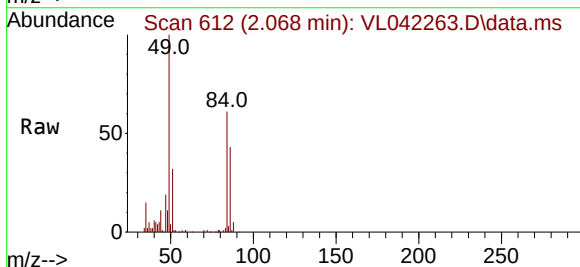
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B2-4-04022025

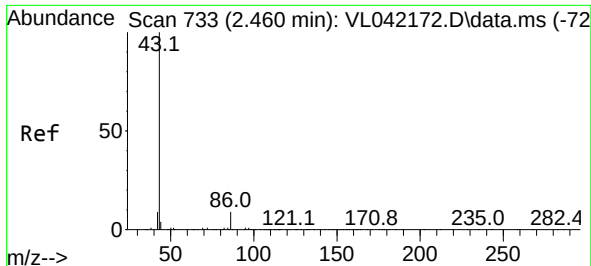
Tgt Ion:	84	Resp:	10209
Ion	Ratio	Lower	Upper
84	100		
49	152.9	120.2	180.4
51	45.0	37.4	56.0
86	62.0	52.4	78.6



#21
Allyl Chloride
Concen: 0.036 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.023 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

Tgt Ion:	41	Resp:	585
Ion	Ratio	Lower	Upper
41	100		
76	13.3	24.1	36.1#
39	0.0	61.1	91.7#

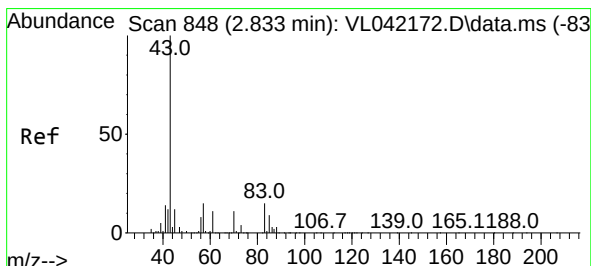
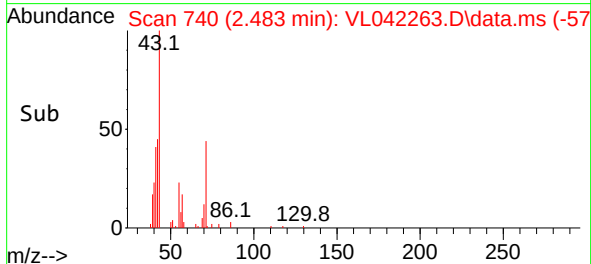
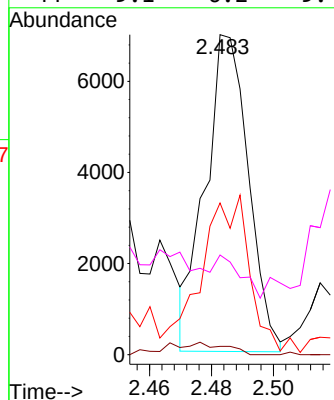
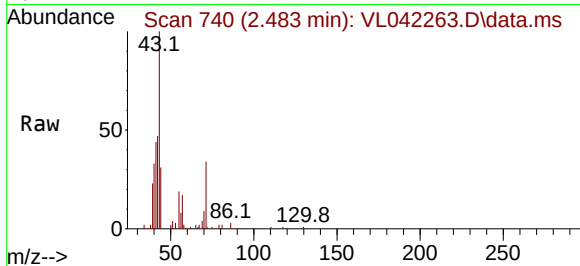




#23
 Vinyl Acetate
 Concen: 0.674 ppbv
 RT: 2.483 min Scan# 741
 Delta R.T. 0.022 min
 Lab File: VL042263.D
 Acq: 08 Apr 2025 14:53

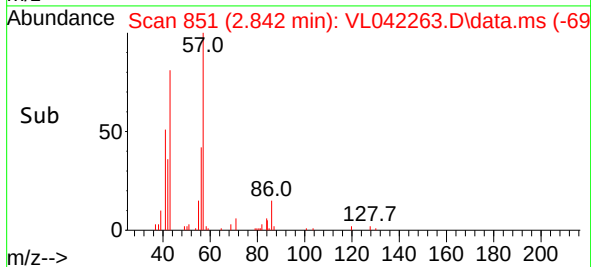
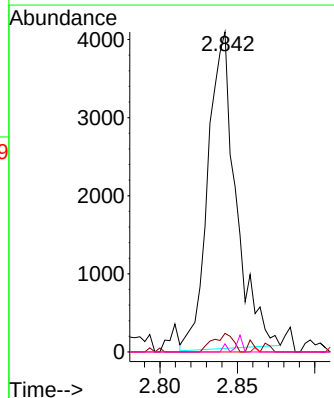
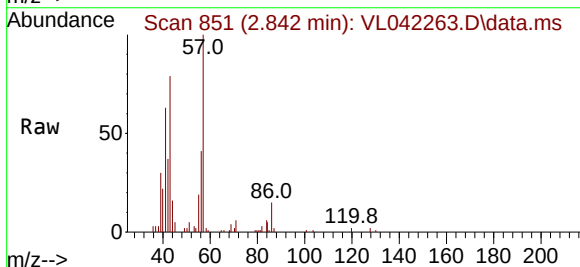
Instrument :
 MSVOA_1
 ClientSampleId :
 SSSG-B2-4-04022025

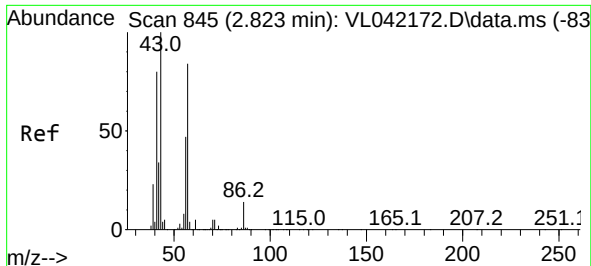
Tgt Ion: 43	Resp: 6715
Ion Ratio	Lower Upper
43 100	
86 2.7	5.5 8.3#
42 48.2	8.6 13.0#
44 9.1	6.2 9.4



#25
 Ethyl Acetate
 Concen: 0.085 ppbv
 RT: 2.842 min Scan# 851
 Delta R.T. 0.010 min
 Lab File: VL042263.D
 Acq: 08 Apr 2025 14:53

Tgt Ion: 43	Resp: 5082
Ion Ratio	Lower Upper
43 100	
45 5.6	8.2 12.2#
61 0.2	7.3 10.9#
70 1.4	7.2 10.8#

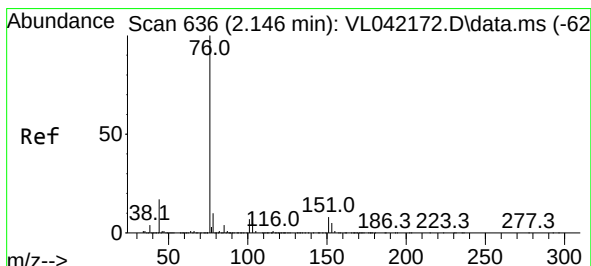
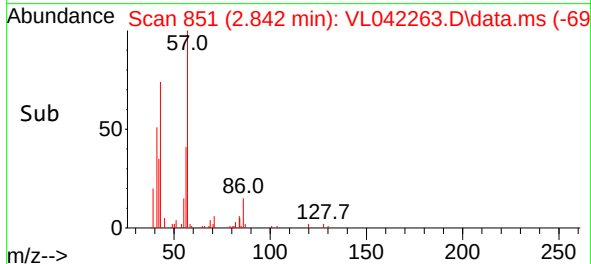
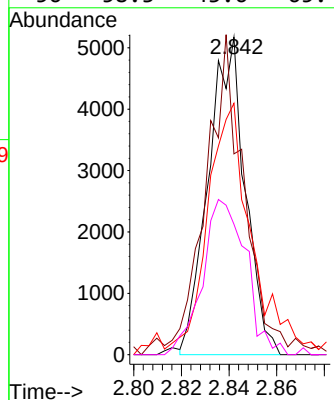
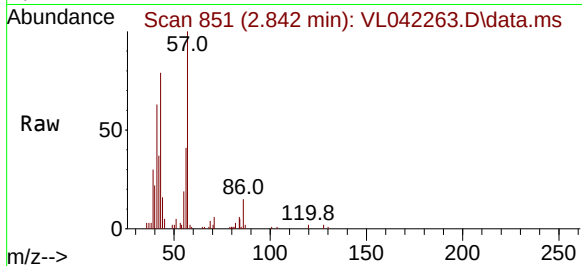




#26
Hexane
Concen: 0.240 ppbv
RT: 2.842 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

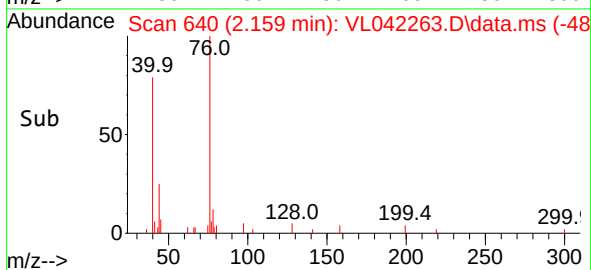
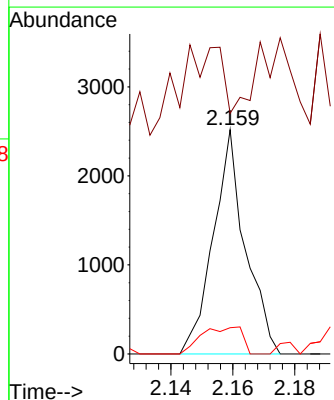
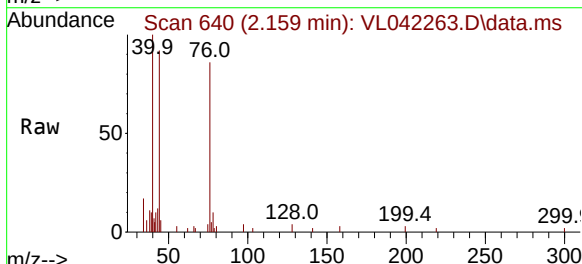
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025

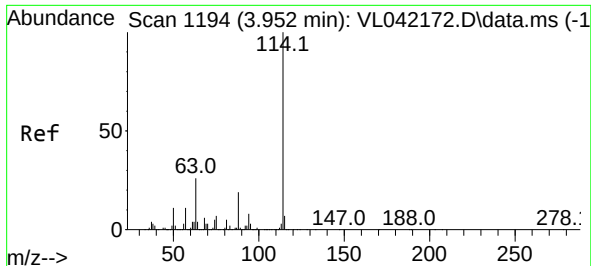
Tgt Ion: 57	Resp: 5541
Ion Ratio	Lower Upper
57 100	
41 107.4	76.6 114.8
43 98.8	207.8 311.8#
56 58.3	43.6 65.4



#27
Carbon Disulfide
Concen: 0.073 ppbv
RT: 2.159 min Scan# 640
Delta R.T. 0.013 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

Tgt Ion: 76	Resp: 1809
Ion Ratio	Lower Upper
76 100	
44 77.2	14.7 22.1#
78 24.7	9.3 13.9#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.978 min Scan# 11

Delta R.T. 0.026 min

Lab File: VL042263.D

Acq: 08 Apr 2025 14:53

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-4-04022025

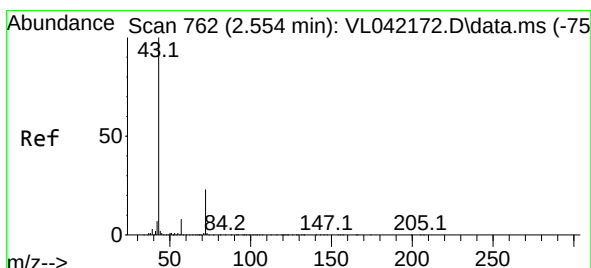
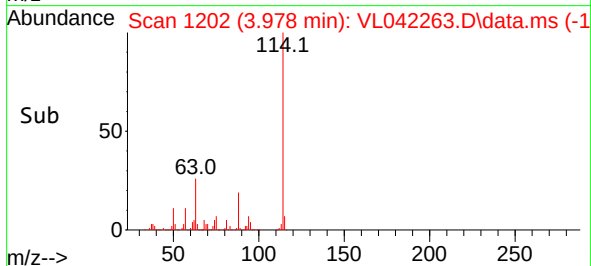
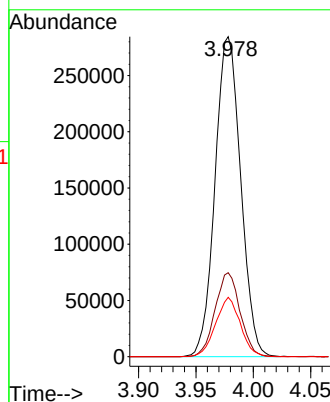
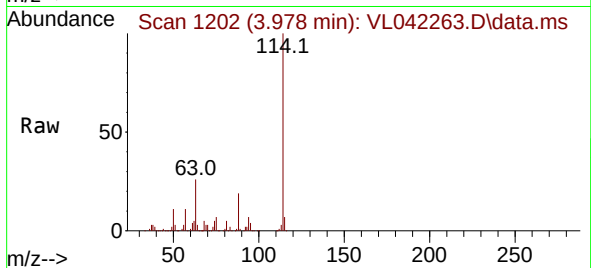
Tgt Ion:114 Resp: 443030

Ion Ratio Lower Upper

114 100

63 25.6 20.7 31.1

88 17.8 15.0 22.4



#34

2-Butanone

Concen: 0.455 ppbv

RT: 2.573 min Scan# 768

Delta R.T. 0.019 min

Lab File: VL042263.D

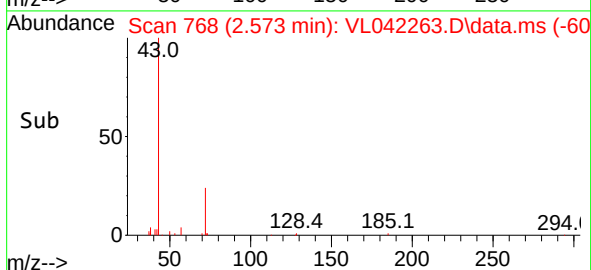
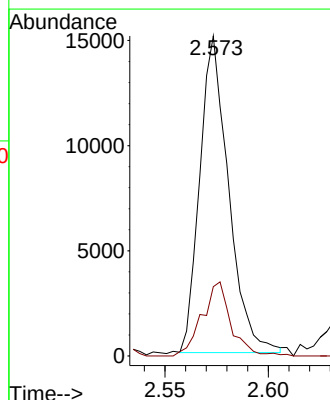
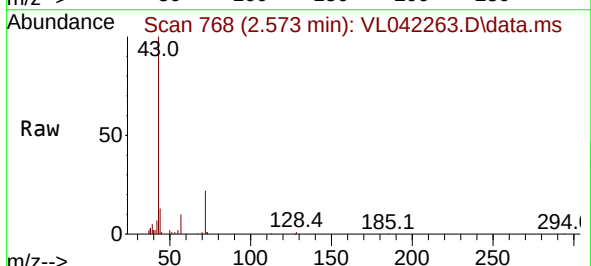
Acq: 08 Apr 2025 14:53

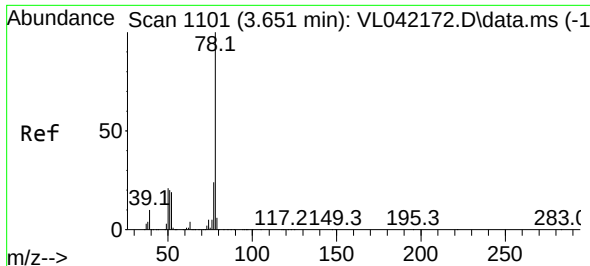
Tgt Ion: 43 Resp: 14609

Ion Ratio Lower Upper

43 100

72 23.4 18.2 27.2

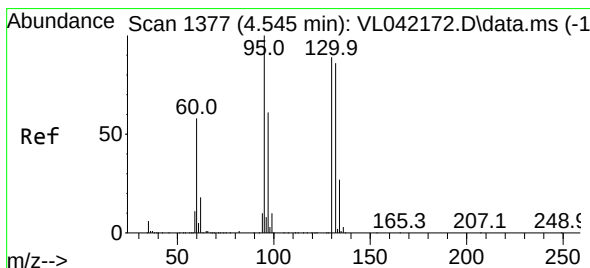
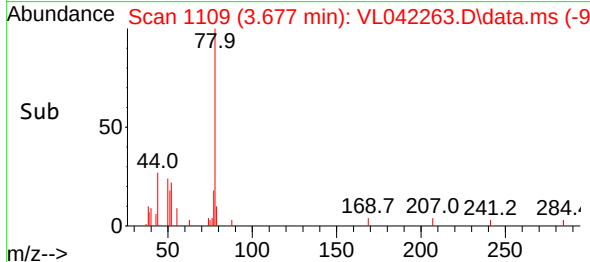
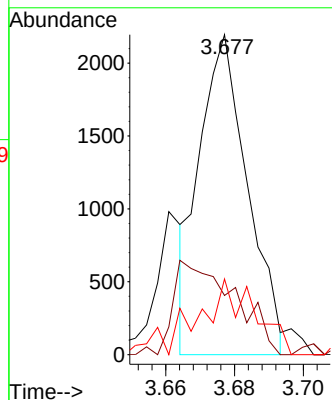
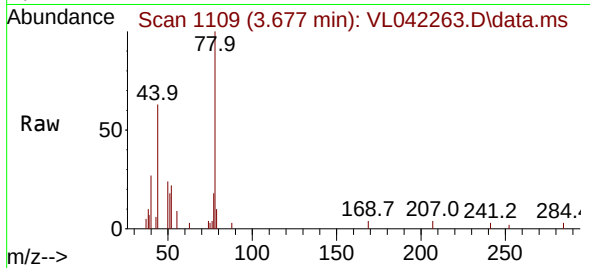




#36
Benzene
Concen: 0.048 ppbv
RT: 3.677 min Scan# 1101
Delta R.T. 0.026 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

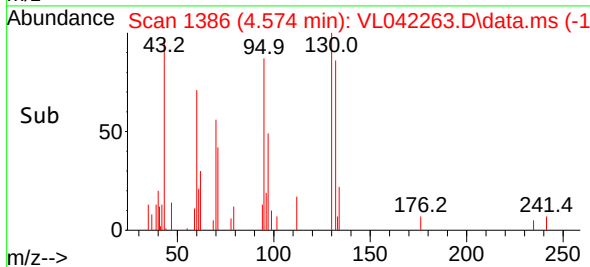
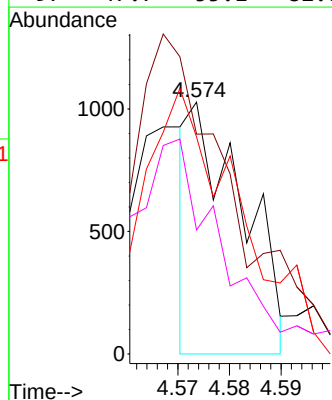
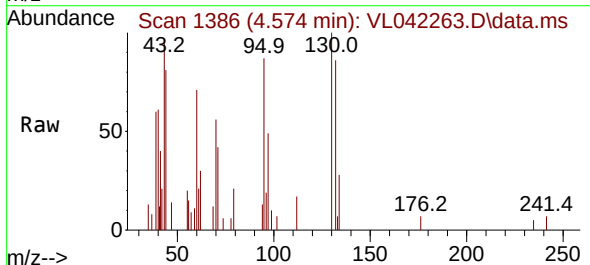
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025

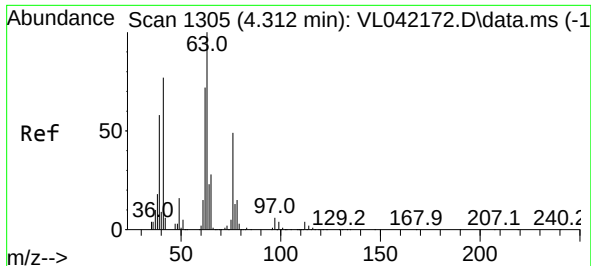
Tgt Ion: 78 Resp: 2129
Ion Ratio Lower Upper
78 100
77 11.2 19.1 28.7#
50 13.8 16.6 24.8#



#38
Trichloroethene
Concen: 0.040 ppbv
RT: 4.574 min Scan# 1386
Delta R.T. 0.029 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

Tgt Ion: 130 Resp: 734
Ion Ratio Lower Upper
130 100
95 54.2 89.8 134.8#
132 68.2 77.4 116.2#
97 47.7 55.1 82.7#





#39

1,2-Dichloropropane

Concen: 7.067 ppbv

RT: 3.978 min Scan# 1130

Delta R.T. -0.334 min

Lab File: VL042263.D

Acq: 08 Apr 2025 14:53

Instrument :

MSVOA_1

ClientSampleId :

SSSG-B2-4-04022025

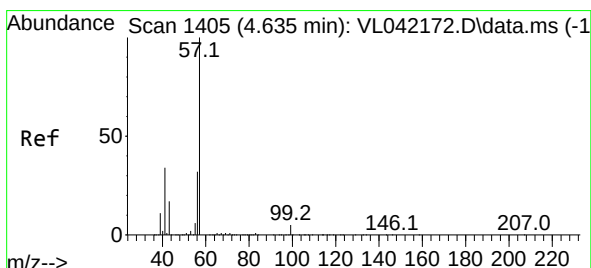
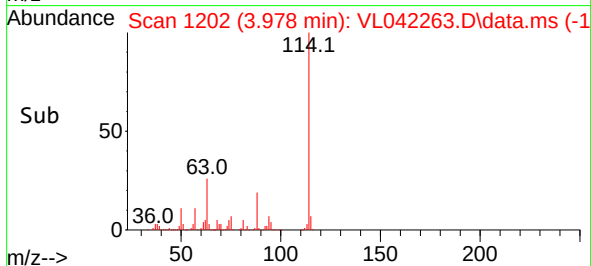
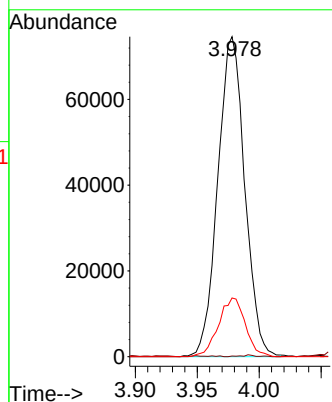
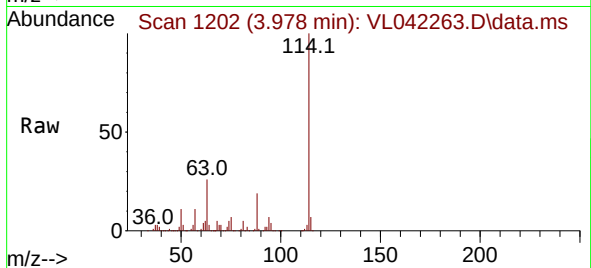
Tgt Ion: 63 Resp: 113032

Ion Ratio Lower Upper

63 100

41 0.2 61.7 92.5#

62 18.3 57.6 86.4#



#44

2,2,4-Trimethylpentane

Concen: 0.151 ppbv

RT: 4.661 min Scan# 1413

Delta R.T. 0.026 min

Lab File: VL042263.D

Acq: 08 Apr 2025 14:53

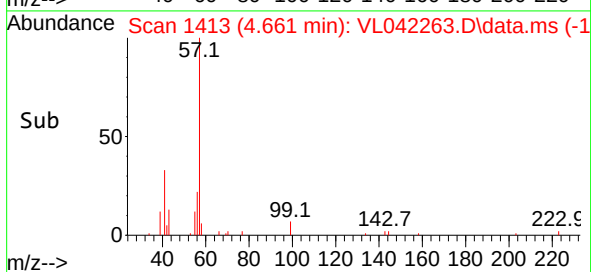
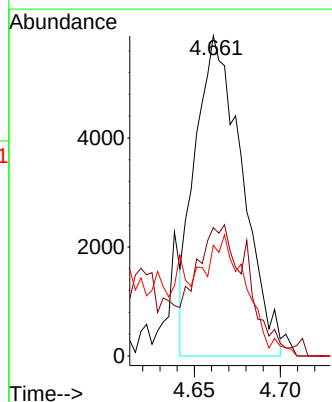
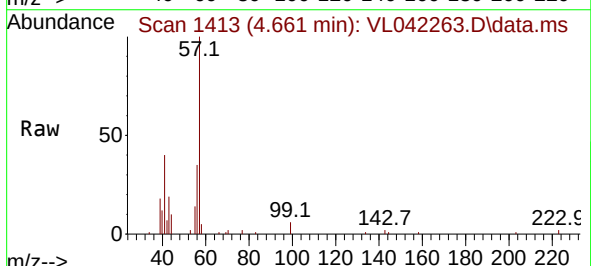
Tgt Ion: 57 Resp: 11216

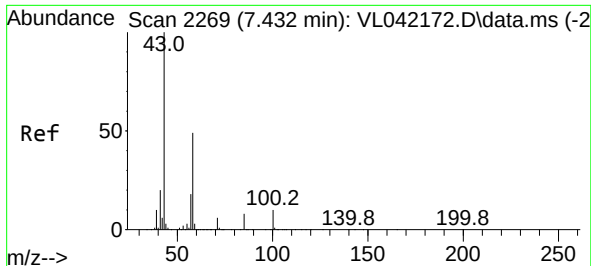
Ion Ratio Lower Upper

57 100

41 52.8 26.8 40.2#

56 35.2 25.6 38.4

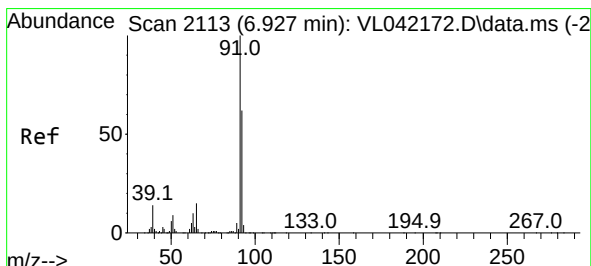
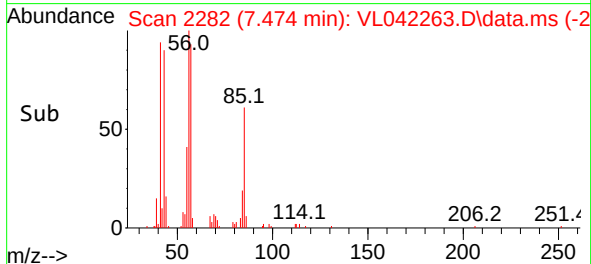
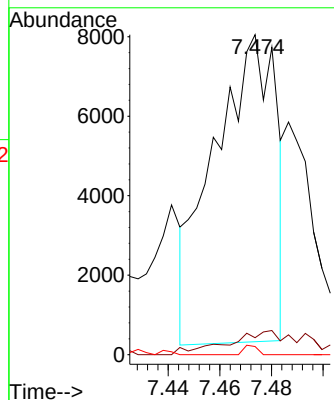
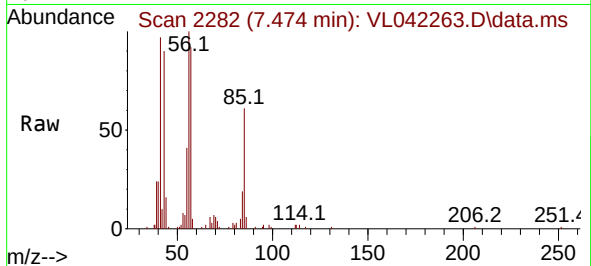




#51
2-Hexanone
Concen: 0.308 ppbv
RT: 7.474 min Scan# 2123
Delta R.T. 0.042 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

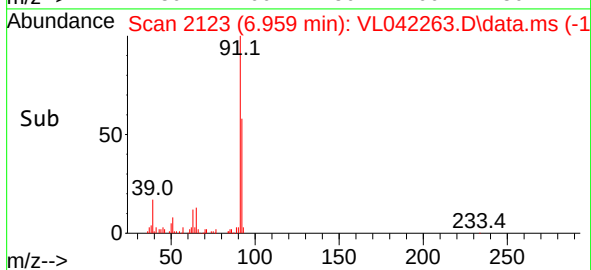
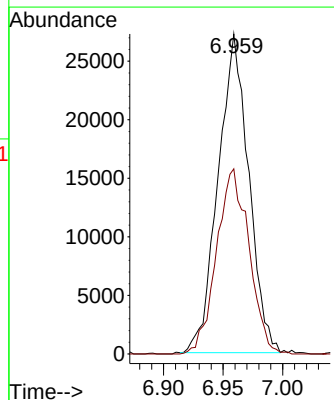
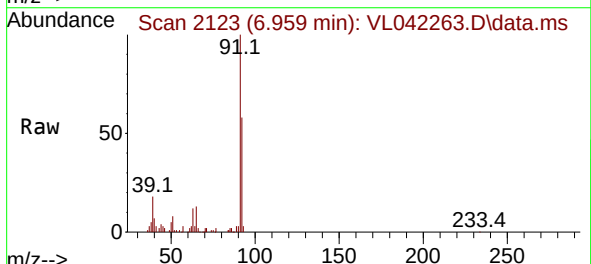
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025

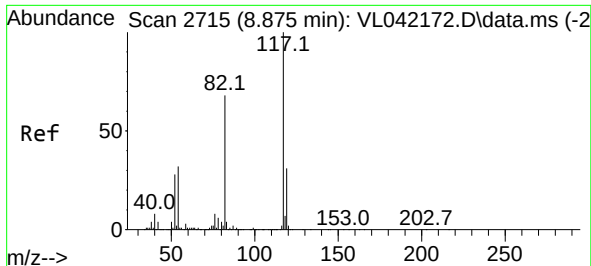
Tgt Ion: 43 Resp: 12863
Ion Ratio Lower Upper
43 100
58 9.6 39.7 59.5#
98 0.0 0.1 0.1#



#53
Toluene
Concen: 0.933 ppbv
RT: 6.959 min Scan# 2123
Delta R.T. 0.032 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

Tgt Ion: 91 Resp: 48553
Ion Ratio Lower Upper
91 100
92 61.7 48.4 72.6

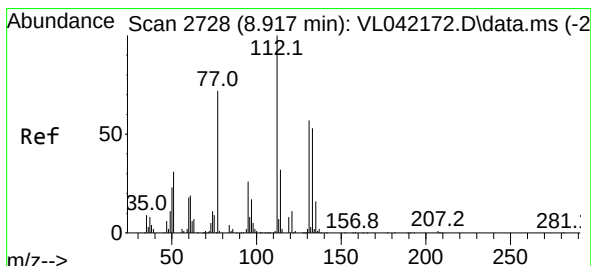
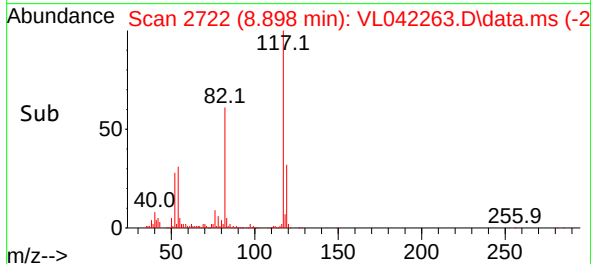
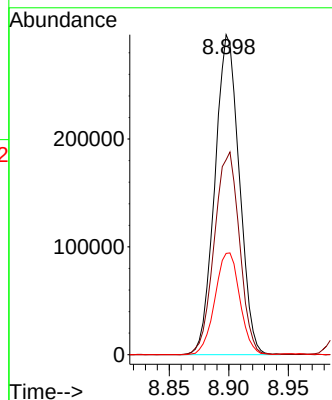
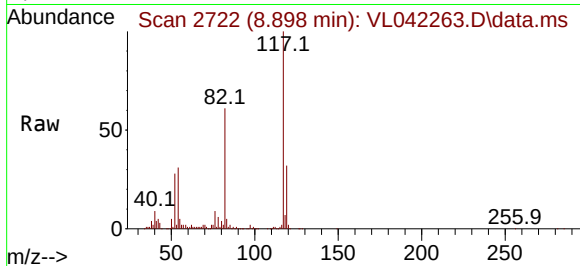




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 21
Delta R.T. 0.022 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

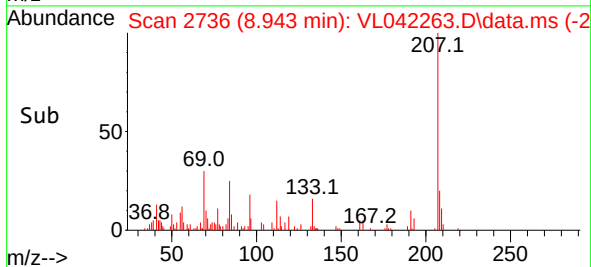
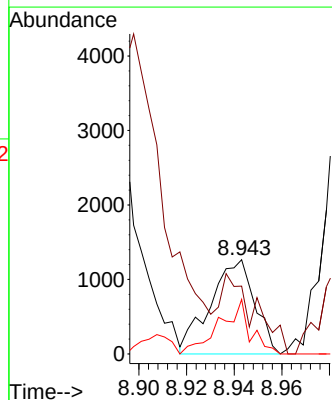
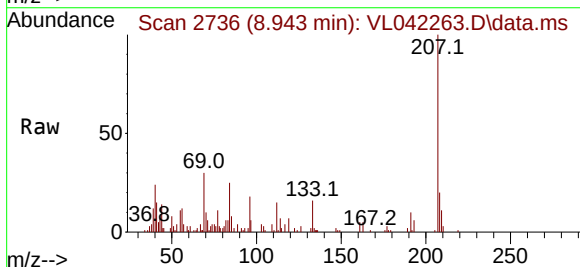
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025

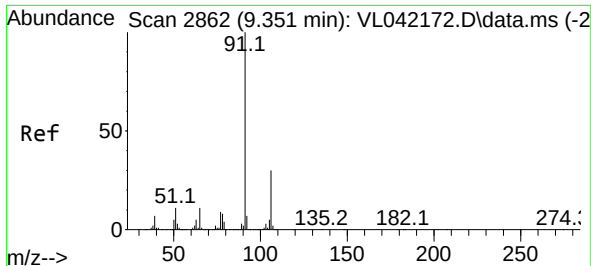
Tgt Ion:	117	Resp:	423016
Ion	Ratio	Lower	Upper
117	100		
82	65.4	55.8	83.6
119	32.5	25.5	38.3



#57
Chlorobenzene
Concen: 0.041 ppbv
RT: 8.943 min Scan# 2736
Delta R.T. 0.026 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

Tgt Ion:	112	Resp:	1636
Ion	Ratio	Lower	Upper
112	100		
77	37.8	58.2	87.2#
114	53.0	29.1	35.5#

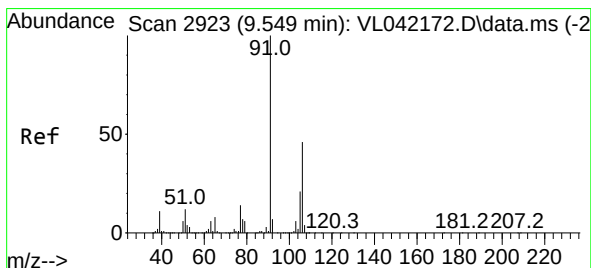
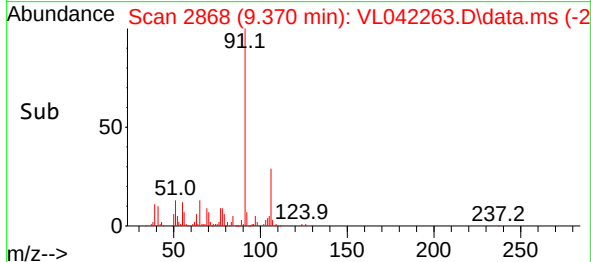
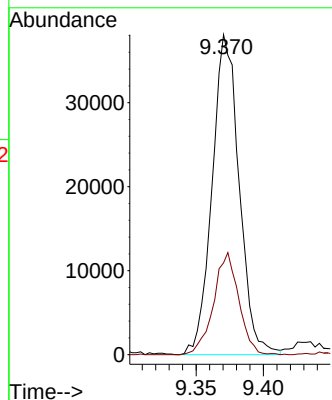
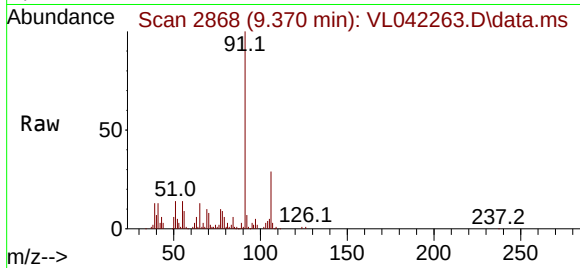




#58
Ethyl Benzene
Concen: 0.708 ppbv
RT: 9.370 min Scan# 21
Delta R.T. 0.019 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

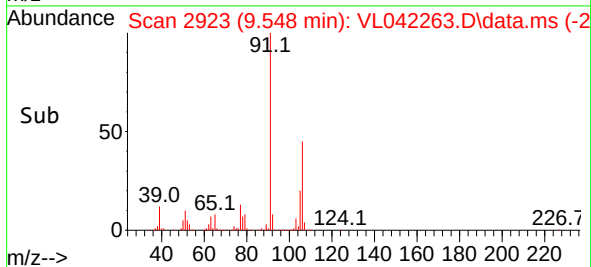
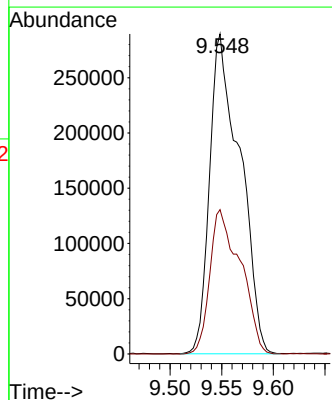
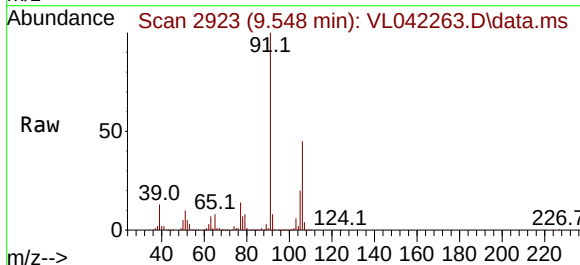
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B2-4-04022025

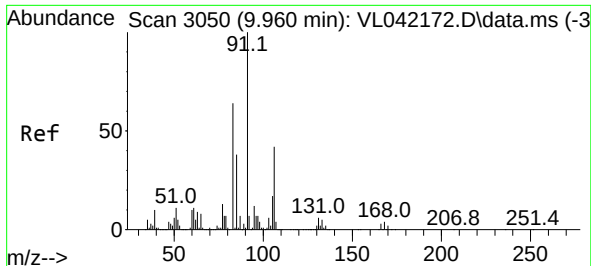
Tgt Ion: 91 Resp: 53186
Ion Ratio Lower Upper
91 100
106 28.7 24.2 36.2



#59
m/p-Xylene
Concen: 9.863 ppbv
RT: 9.548 min Scan# 2923
Delta R.T. -0.000 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

Tgt Ion: 91 Resp: 591775
Ion Ratio Lower Upper
91 100
106 45.6 36.4 54.6

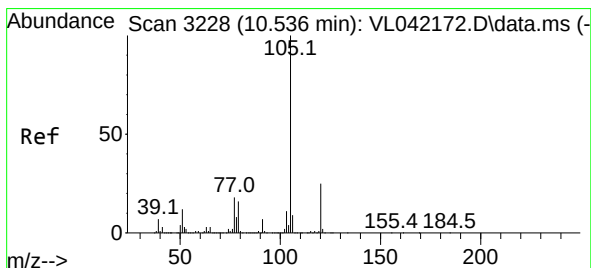
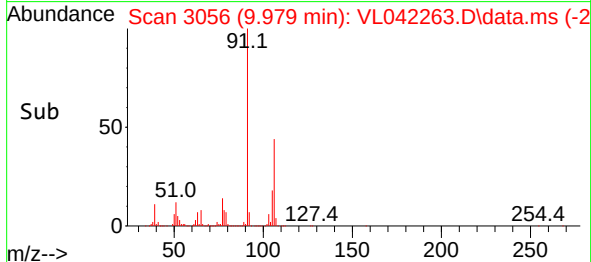
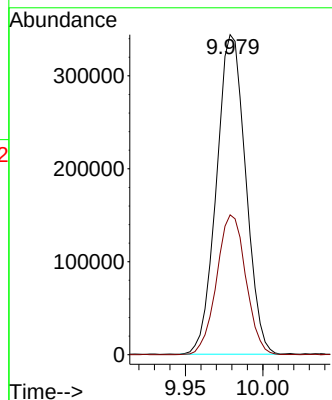
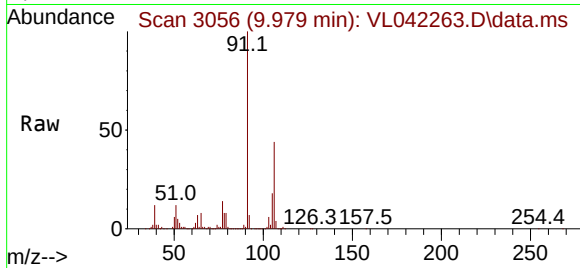




#60
o-Xylene
Concen: 7.482 ppbv
RT: 9.979 min Scan# 3050
Delta R.T. 0.019 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

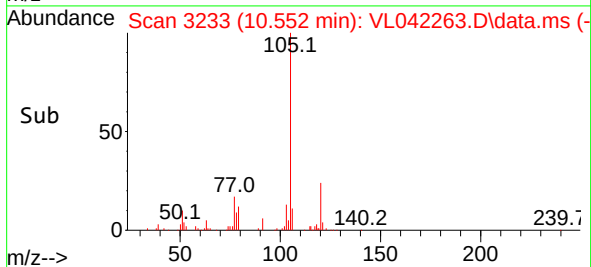
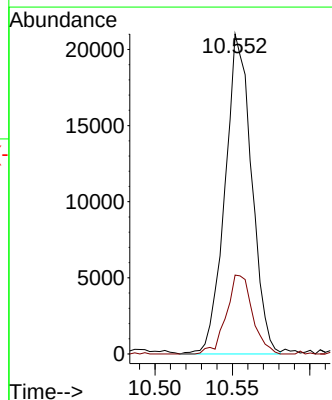
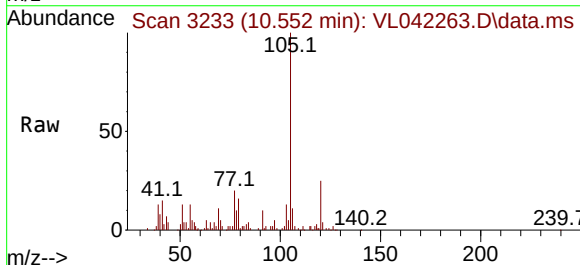
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025

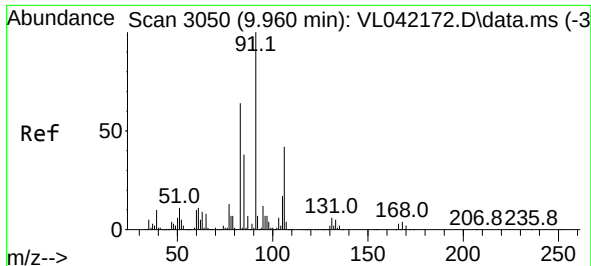
Tgt Ion: 91 Resp: 449997
Ion Ratio Lower Upper
91 100
106 43.9 20.8 62.5



#62
Isopropylbenzene
Concen: 0.280 ppbv
RT: 10.552 min Scan# 3233
Delta R.T. 0.016 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

Tgt Ion: 105 Resp: 25164
Ion Ratio Lower Upper
105 100
120 24.3 19.9 29.9

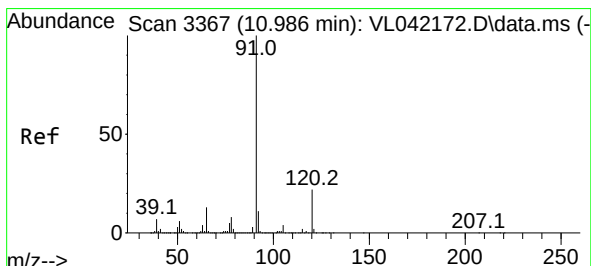
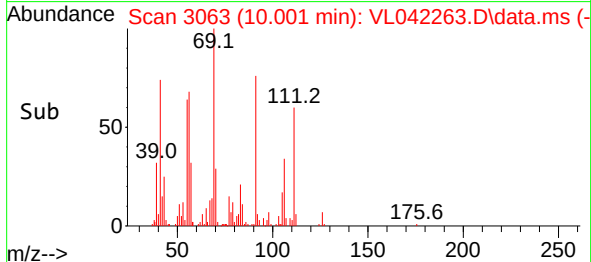
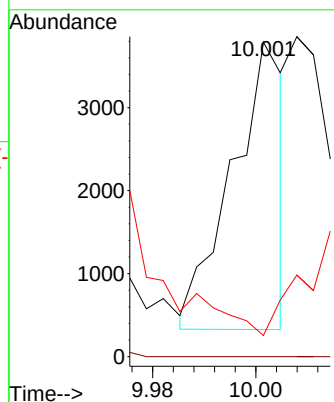
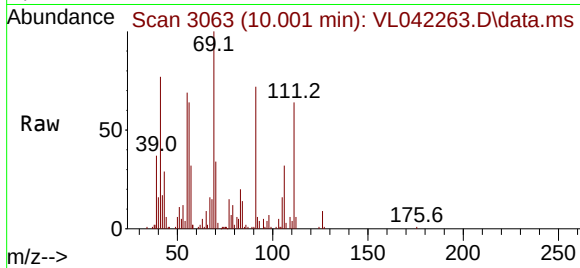




#63
1,1,2,2-Tetrachloroethane
Concen: 0.066 ppbv
RT: 10.001 min Scan# 3050
Delta R.T. 0.042 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

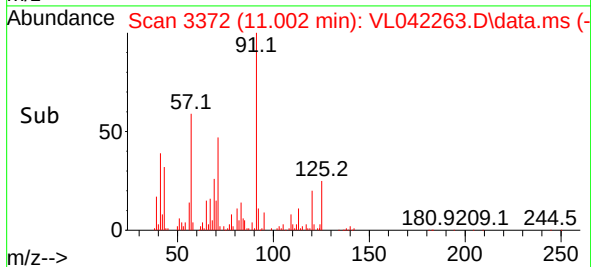
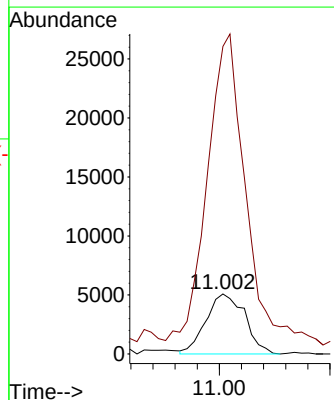
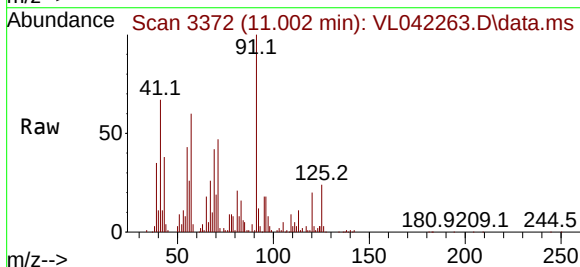
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B2-4-04022025

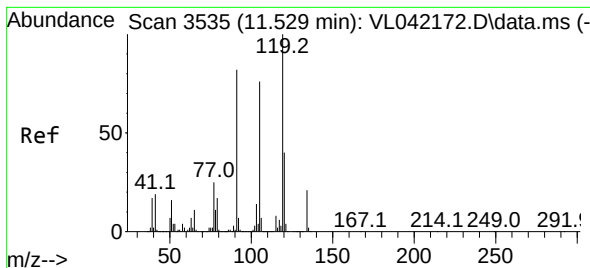
Tgt Ion: 83 Resp: 2403
Ion Ratio Lower Upper
83 100
131 0.0 4.8 14.4#
85 0.0 32.5 97.5#



#64
n-propylbenzene
Concen: 0.269 ppbv
RT: 11.002 min Scan# 3372
Delta R.T. 0.016 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

Tgt Ion: 120 Resp: 6217
Ion Ratio Lower Upper
120 100
91 564.3 376.9 565.3





#65

tert-Butylbenzene

Concen: 0.428 ppbv

RT: 11.549 min Scan# 3541

Delta R.T. 0.019 min

Lab File: VL042263.D

Acq: 08 Apr 2025 14:53

Instrument :

MSVOA_1

ClientSampleId :

SSSG-B2-4-04022025

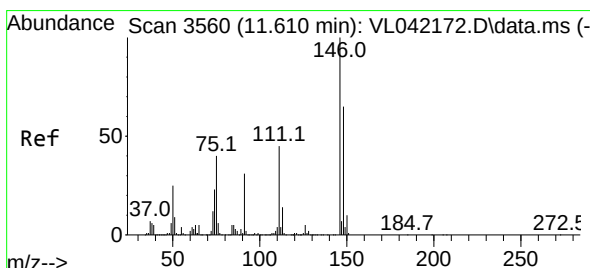
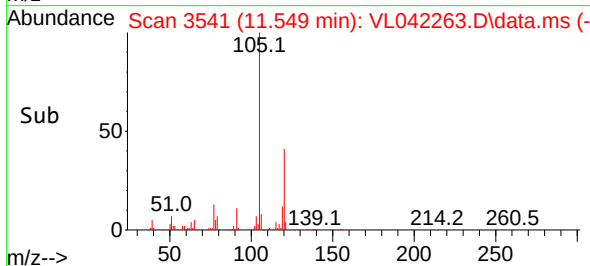
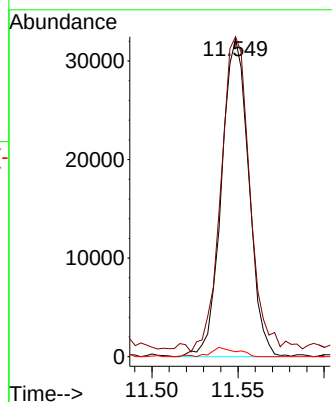
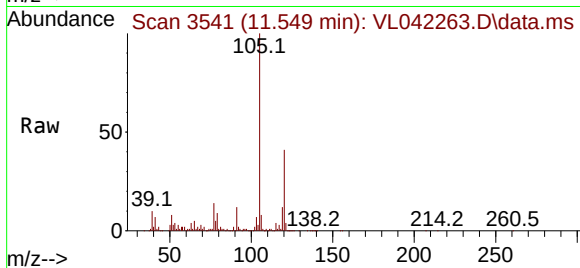
Tgt Ion:119 Resp: 35615

Ion Ratio Lower Upper

119 100

91 103.4 66.0 99.0#

134 2.9 16.7 25.1#



#66

Benzyl Chloride

Concen: 0.127 ppbv

RT: 11.649 min Scan# 3572

Delta R.T. 0.039 min

Lab File: VL042263.D

Acq: 08 Apr 2025 14:53

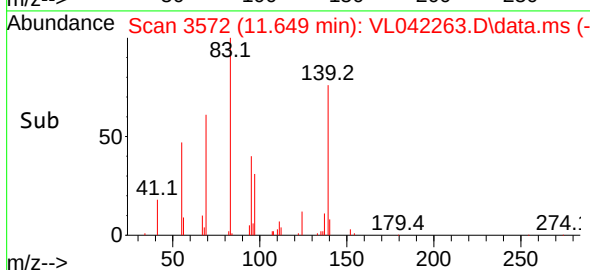
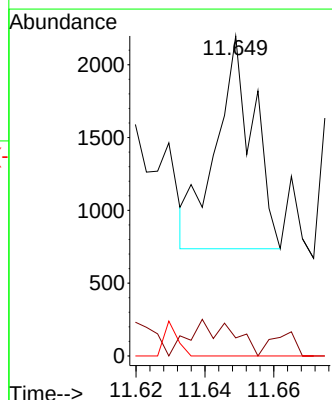
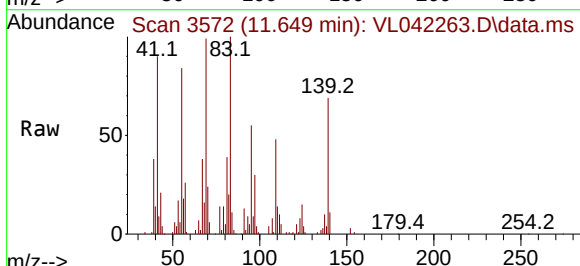
Tgt Ion: 91 Resp: 1117

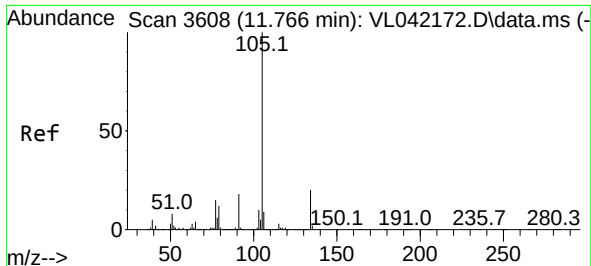
Ion Ratio Lower Upper

91 100

126 40.3 13.8 20.6#

128 8.9 4.5 6.7#

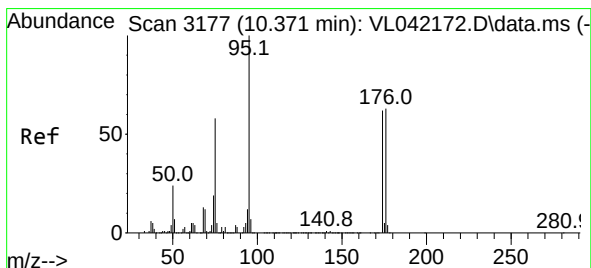
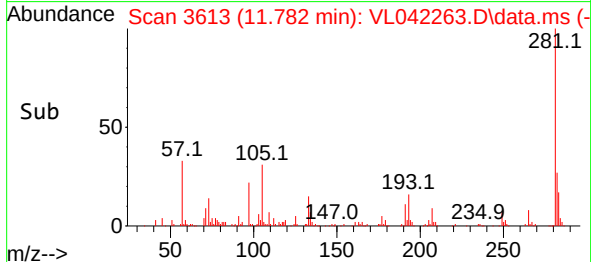
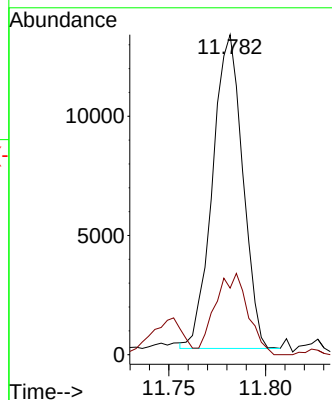
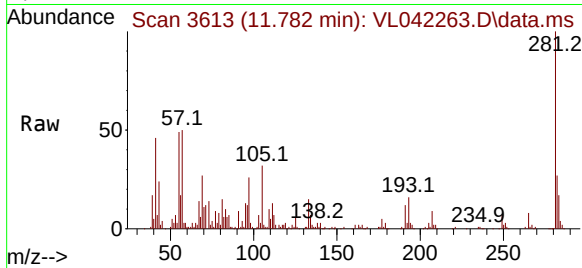




#67
 sec-Butylbenzene
 Concen: 0.123 ppbv
 RT: 11.782 min Scan# 3183
 Delta R.T. 0.016 min
 Lab File: VL042263.D
 Acq: 08 Apr 2025 14:53

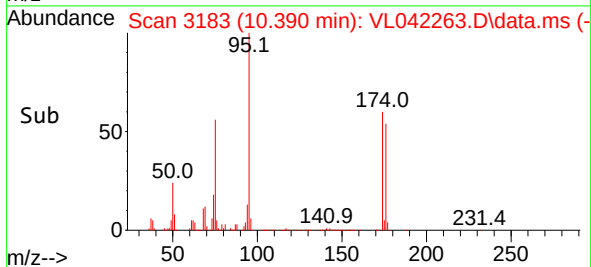
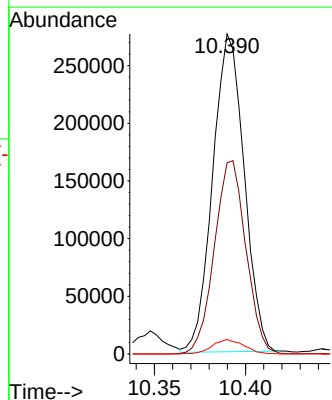
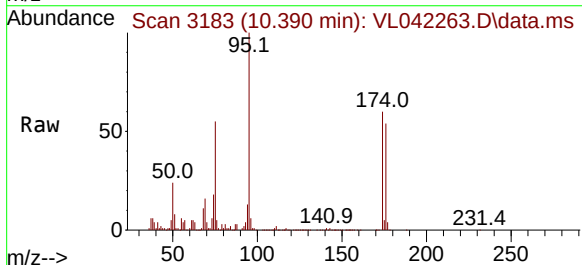
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-4-04022025

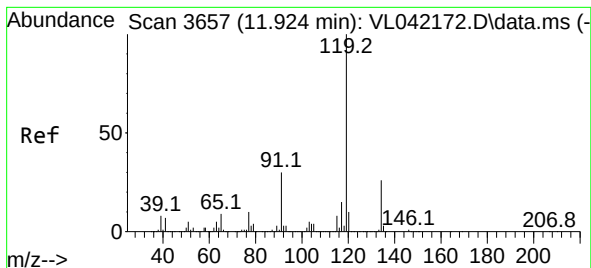
Tgt Ion:105 Resp: 14275
 Ion Ratio Lower Upper
 105 100
 134 40.8 15.5 23.3#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.513 ppbv
 RT: 10.390 min Scan# 3183
 Delta R.T. 0.019 min
 Lab File: VL042263.D
 Acq: 08 Apr 2025 14:53

Tgt Ion: 95 Resp: 330470
 Ion Ratio Lower Upper
 95 100
 174 61.0 50.6 76.0
 175 4.6 3.8 5.6





#69

p-Isopropyltoluene

Concen: 0.155 ppbv

RT: 11.940 min Scan# 3662

Delta R.T. 0.016 min

Lab File: VL042263.D

Acq: 08 Apr 2025 14:53

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-4-04022025

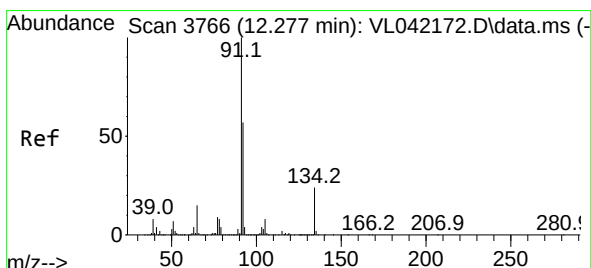
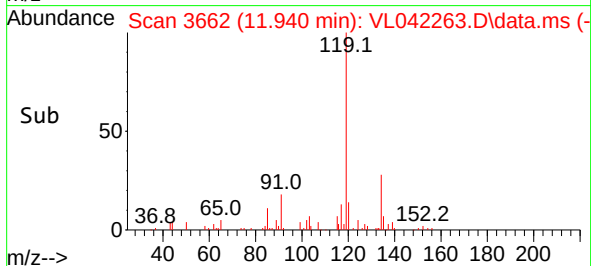
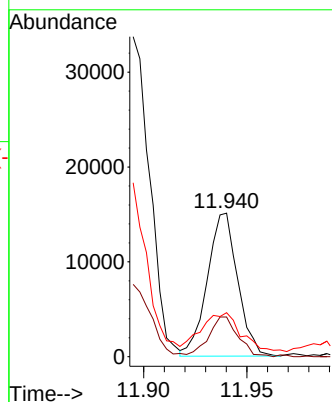
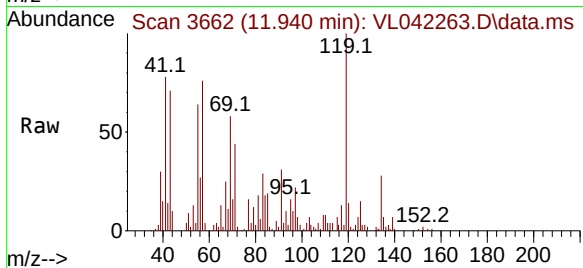
Tgt Ion:119 Resp: 15445

Ion Ratio Lower Upper

119 100

134 27.3 20.4 30.6

91 34.1 23.7 35.5



#70

n-Butylbenzene

Concen: 0.046 ppbv

RT: 12.303 min Scan# 3774

Delta R.T. 0.026 min

Lab File: VL042263.D

Acq: 08 Apr 2025 14:53

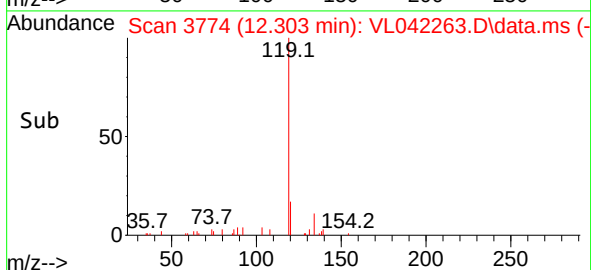
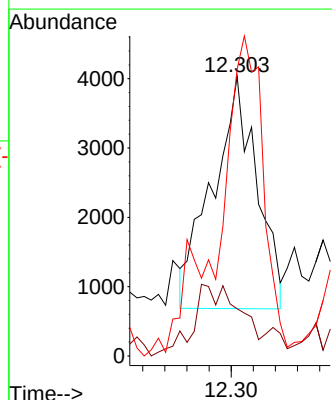
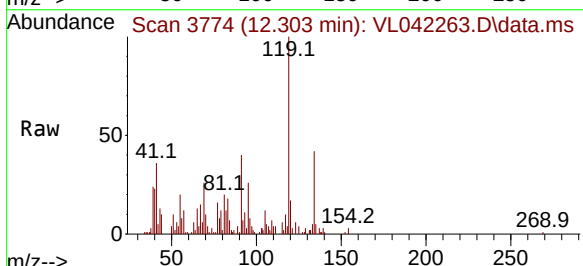
Tgt Ion: 91 Resp: 4674

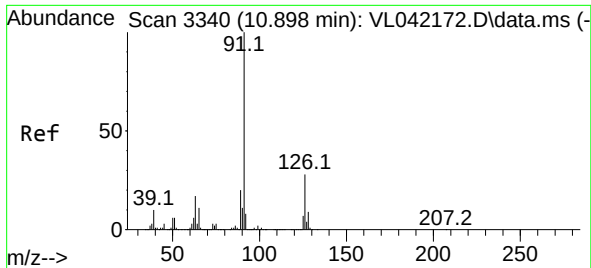
Ion Ratio Lower Upper

91 100

92 0.0 44.9 67.3#

134 142.2 19.2 28.8#

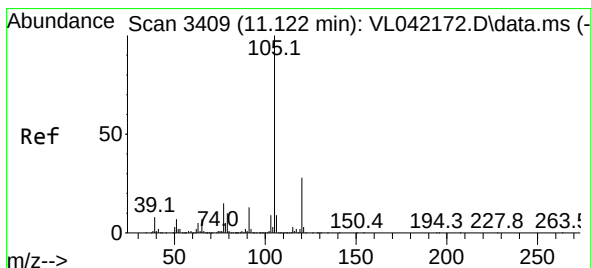
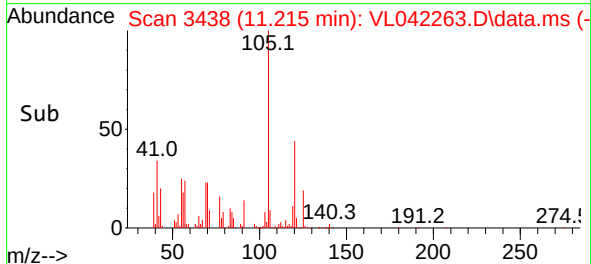
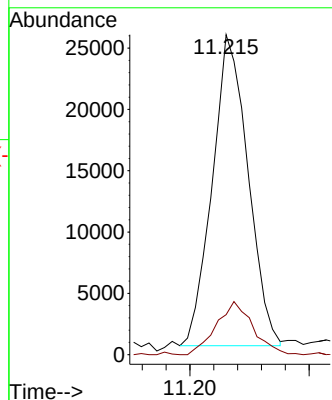
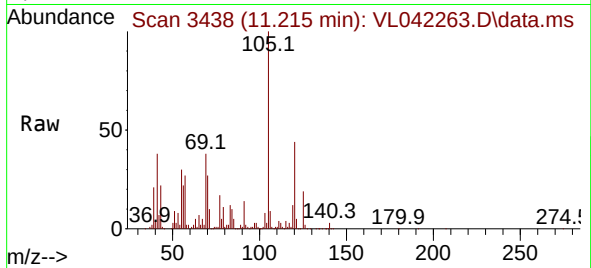




#71
2-Chlorotoluene
Concen: 0.378 ppbv
RT: 11.215 min Scan# 3414
Delta R.T. 0.317 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

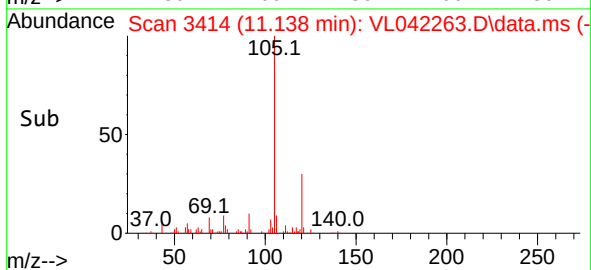
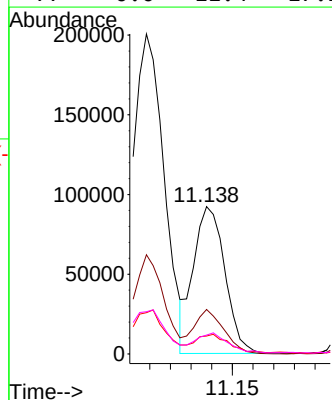
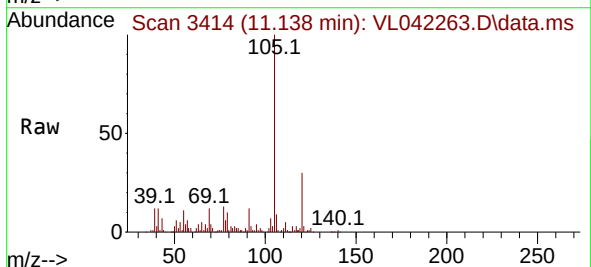
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025

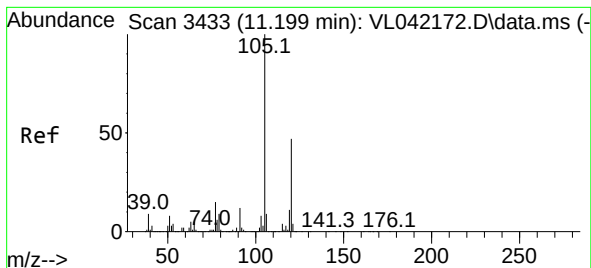
Tgt Ion: 91 Resp: 26381
Ion Ratio Lower Upper
91 100
126 17.8 11.6 46.4



#72
4-Ethyltoluene
Concen: 1.307 ppbv
RT: 11.138 min Scan# 3414
Delta R.T. 0.016 min
Lab File: VL042263.D
Acq: 08 Apr 2025 14:53

Tgt Ion: 105 Resp: 97907
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: 3.241 ppbv

RT: 11.218 min Scan# 34

Delta R.T. 0.019 min

Lab File: VL042263.D

Acq: 08 Apr 2025 14:53

Instrument :

MSVOA_L

ClientSampleId :

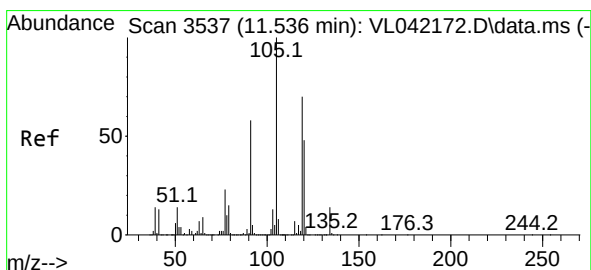
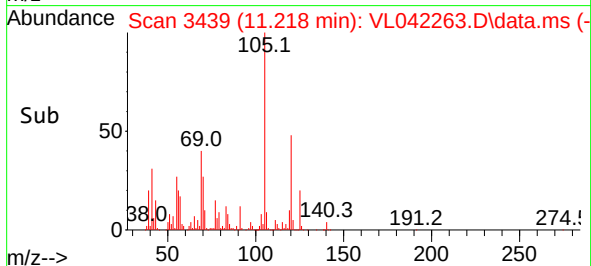
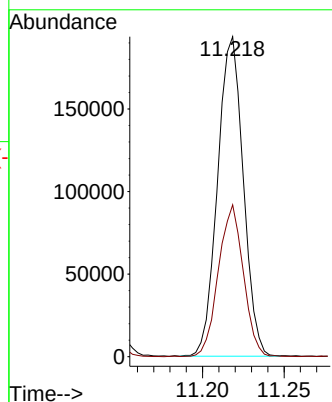
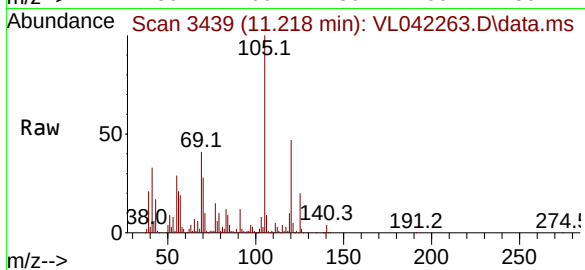
SSSG-B2-4-04022025

Tgt Ion:105 Resp: 211978

Ion Ratio Lower Upper

105 100

120 47.5 37.4 56.0



#74

1,2,4-Trimethylbenzene

Concen: 3.777 ppbv

RT: 11.549 min Scan# 3541

Delta R.T. 0.013 min

Lab File: VL042263.D

Acq: 08 Apr 2025 14:53

Tgt Ion:105 Resp: 284630

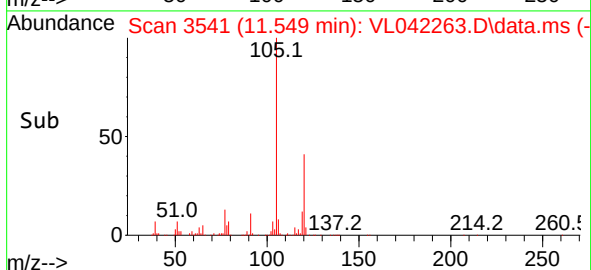
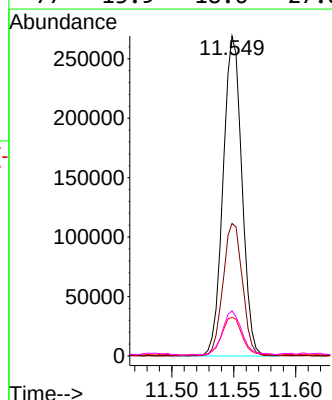
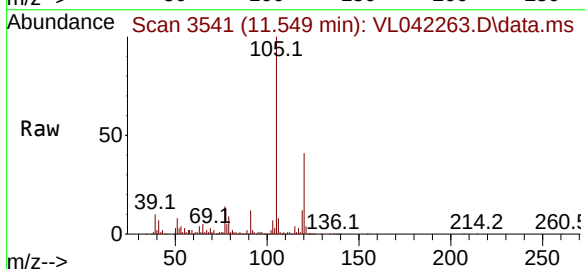
Ion Ratio Lower Upper

105 100

120 41.3 38.6 58.0

91 11.8 46.2 69.2#

77 13.9 18.6 27.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042266.D
 Acq On : 08 Apr 2025 16:27
 Operator : SY/MD
 Sample : Q1728-09 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-1-04022025

Quant Time: Apr 09 01:57:22 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)

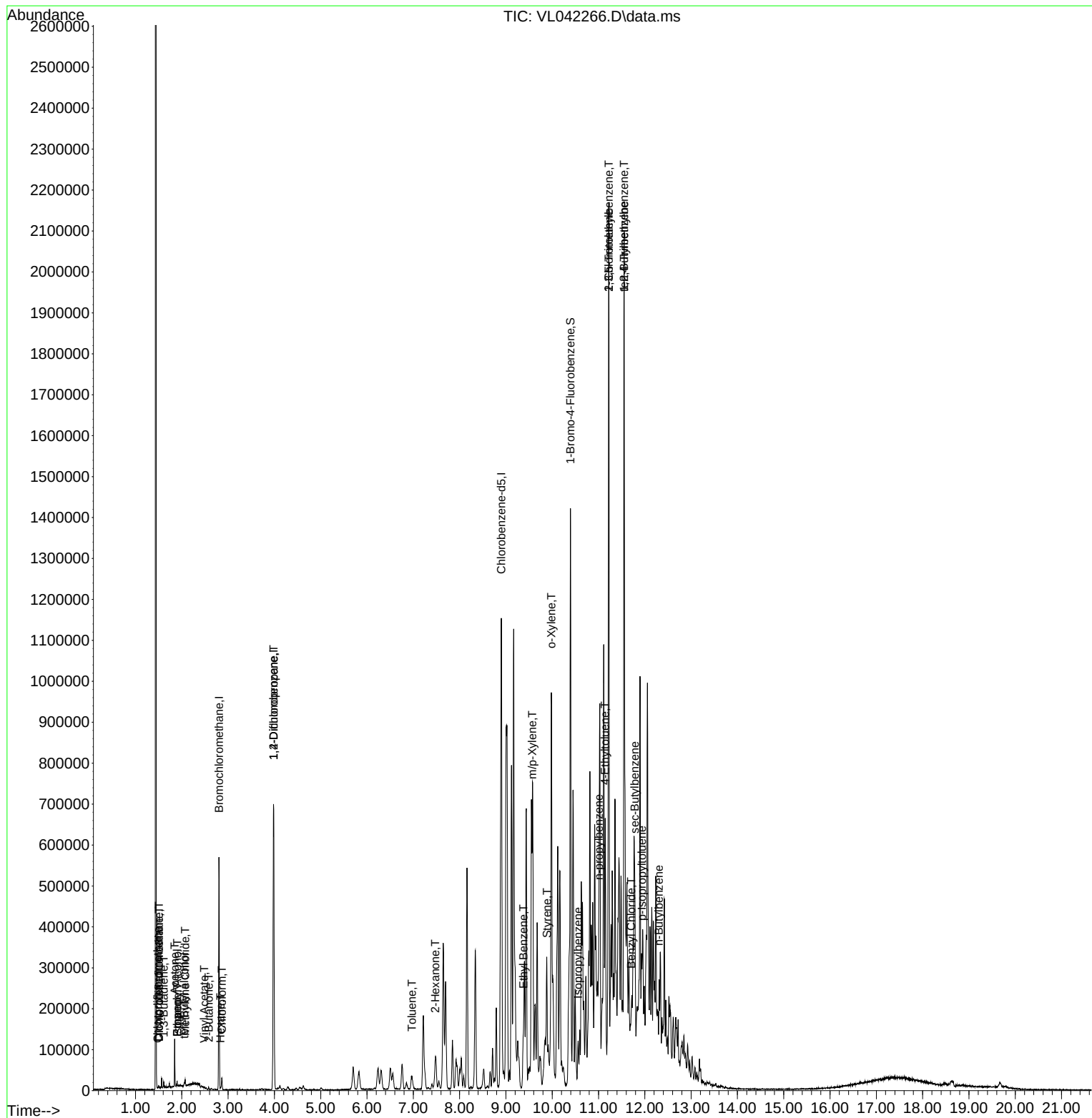
Internal Standards						
1) Bromochloromethane	2.803	49	157346	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	411449	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.901	117	406705	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	320156	9.586	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.505	85	1345	0.058	ppbv	89
3) Chlorodifluoromethane	1.483	51	741	0.031	ppbv #	75
8) Dichlorotetrafluoroethane	1.505	85	1345	0.068	ppbv #	20
9) Propene	1.900	41	901	0.083	ppbv	94
13) Ethanol	1.900	45	5113	4.972	ppbv #	27
15) Acetone	1.845	43	47368	2.153	ppbv	98
16) 1,3-Butadiene	1.609	39	1300	0.121	ppbv #	39
17) tert-Butyl alcohol	2.055	59	2485	0.091	ppbv #	92
19) Isopropyl Alcohol	1.900	45	5113	0.412	ppbv #	1
20) Methylene Chloride	2.075	84	2047	0.250	ppbv #	76
23) Vinyl Acetate	2.486	43	755	0.079	ppbv #	30
26) Hexane	2.839	57	912	0.041	ppbv #	29
29) Chloroform	2.865	83	11335	0.351	ppbv	91
34) 2-Butanone	2.580	43	3906	0.131	ppbv	93
39) 1,2-Dichloropropane	3.981	63	106607	7.176	ppbv #	24
51) 2-Hexanone	7.477	43	22452	0.578	ppbv #	38
53) Toluene	6.969	91	8154	0.169	ppbv #	20
58) Ethyl Benzene	9.377	91	39620	0.548	ppbv	100
59) m/p-Xylene	9.568	91	164440	2.851	ppbv #	31
60) o-Xylene	9.982	91	421737	7.293	ppbv	98
61) Styrene	9.888	104	1012	0.035	ppbv #	1
62) Isopropylbenzene	10.555	105	34792	0.402	ppbv	100
64) n-propylbenzene	11.005	120	11288	0.507	ppbv	83
65) tert-Butylbenzene	11.552	119	84175	1.052	ppbv #	69
66) Benzyl Chloride	11.704	91	1300	0.153	ppbv #	87
67) sec-Butylbenzene	11.782	105	31349	0.282	ppbv #	67
69) p-Isopropyltoluene	11.940	119	38407	0.401	ppbv	98
70) n-Butylbenzene	12.306	91	13566	0.139	ppbv #	1
71) 2-Chlorotoluene	11.218	91	53058	0.791	ppbv	75
72) 4-Ethyltoluene	11.141	105	180705	2.510	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.222	105	423292	6.731	ppbv	97
74) 1,2,4-Trimethylbenzene	11.552	105	713955	9.855	ppbv #	66

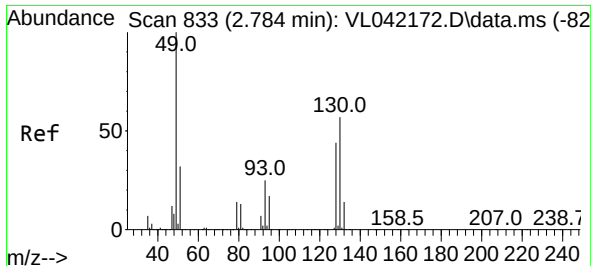
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042266.D
Acq On : 08 Apr 2025 16:27
Operator : SY/MD
Sample : Q1728-09 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025

Quant Time: Apr 09 01:57:22 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

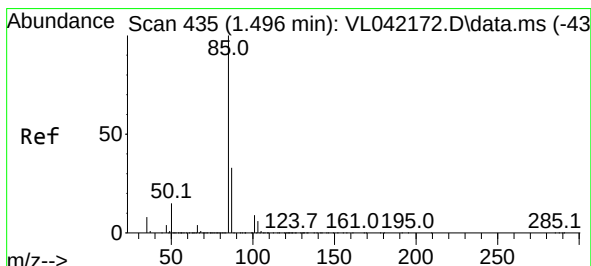
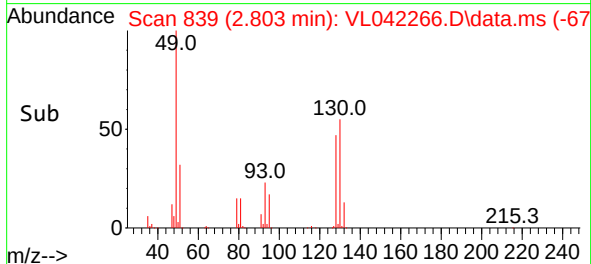
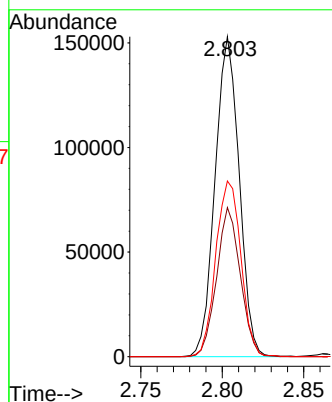
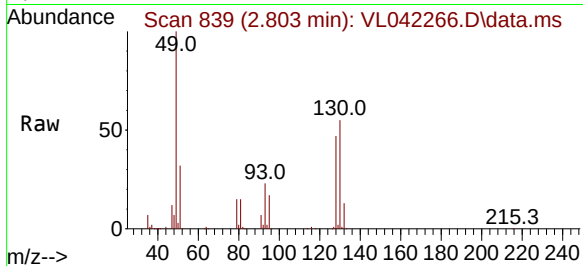




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042266.D
Acq: 08 Apr 2025 16:27

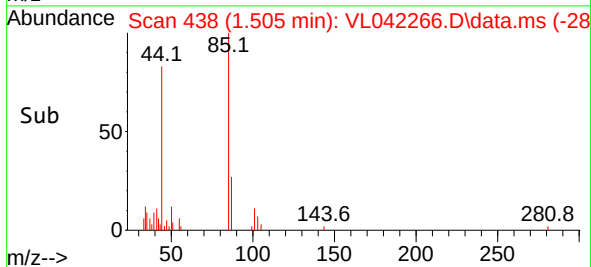
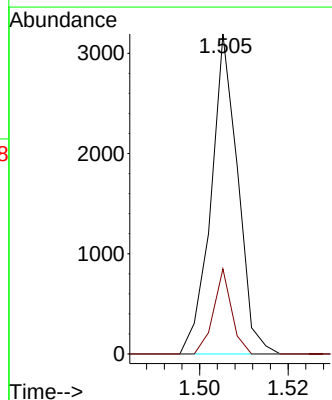
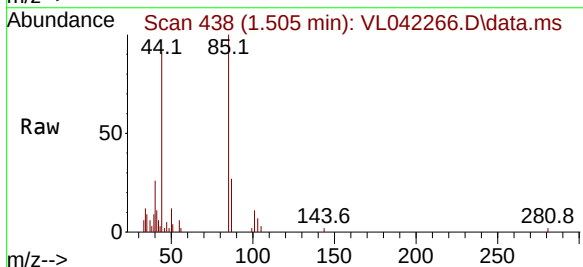
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025

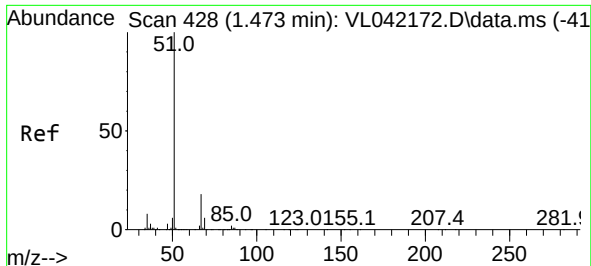
Tgt Ion: 49 Resp: 157346
Ion Ratio Lower Upper
49 100
128 45.7 22.9 68.5
130 57.2 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.058 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.009 min
Lab File: VL042266.D
Acq: 08 Apr 2025 16:27

Tgt Ion: 85 Resp: 1345
Ion Ratio Lower Upper
85 100
87 26.6 26.1 39.1

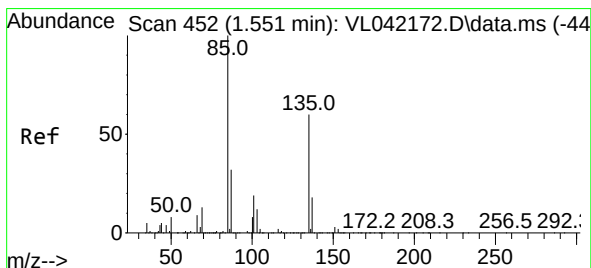
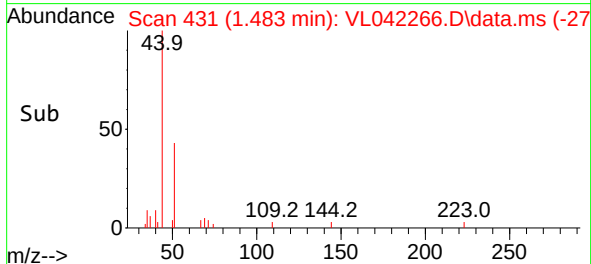
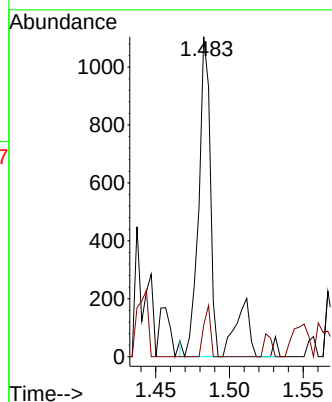
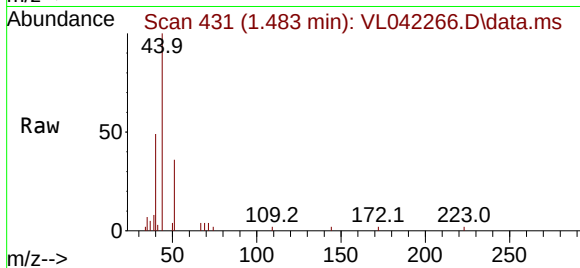




#3
Chlorodifluoromethane
Concen: 0.031 ppbv
RT: 1.483 min Scan# 41
Delta R.T. 0.009 min
Lab File: VL042266.D
Acq: 08 Apr 2025 16:27

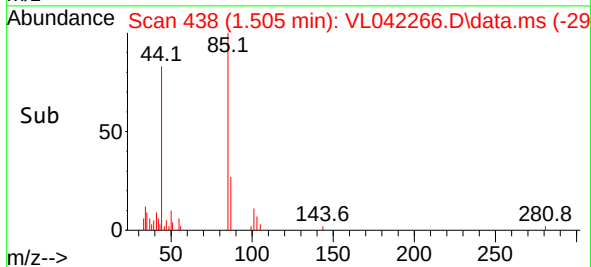
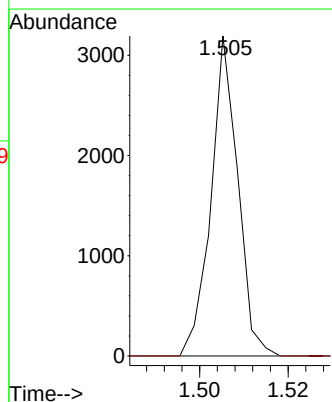
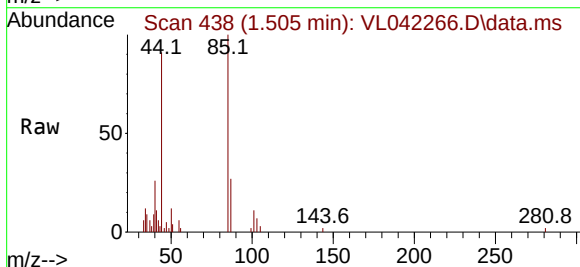
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025

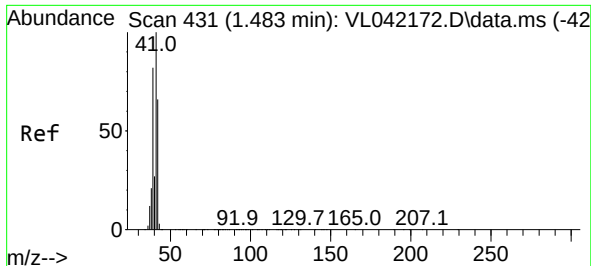
Tgt Ion: 51 Resp: 741
Ion Ratio Lower Upper
51 100
67 7.6 15.0 22.6#



#8
Dichlorotetrafluoroethane
Concen: 0.068 ppbv
RT: 1.505 min Scan# 438
Delta R.T. -0.046 min
Lab File: VL042266.D
Acq: 08 Apr 2025 16:27

Tgt Ion: 85 Resp: 1345
Ion Ratio Lower Upper
85 100
135 2.1 52.4 78.6#





#9

Propene

Concen: 0.083 ppbv

RT: 1.900 min Scan# 5

Delta R.T. 0.417 min

Lab File: VL042266.D

Acq: 08 Apr 2025 16:27

Instrument :

MSVOA_1

ClientSampleId :

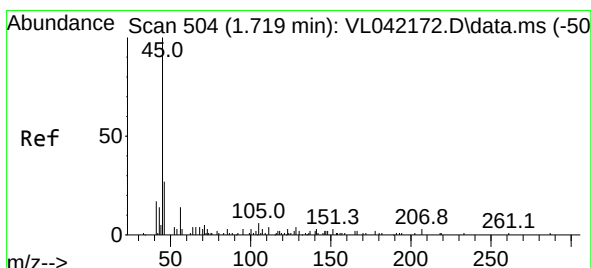
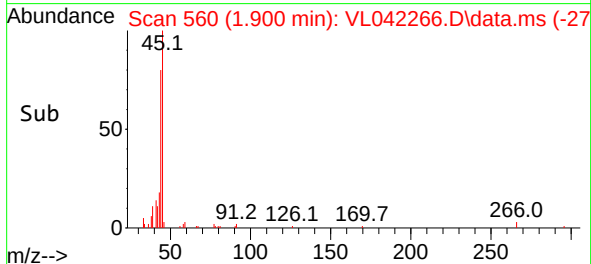
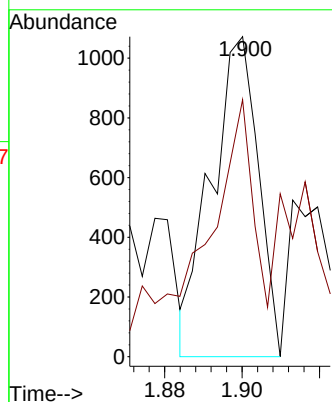
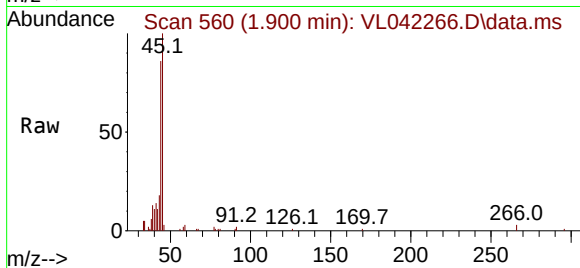
SSSG-B2-1-04022025

Tgt Ion: 41 Resp: 901

Ion Ratio Lower Upper

41 100

42 64.6 55.4 83.2



#13

Ethanol

Concen: 4.972 ppbv

RT: 1.900 min Scan# 560

Delta R.T. 0.181 min

Lab File: VL042266.D

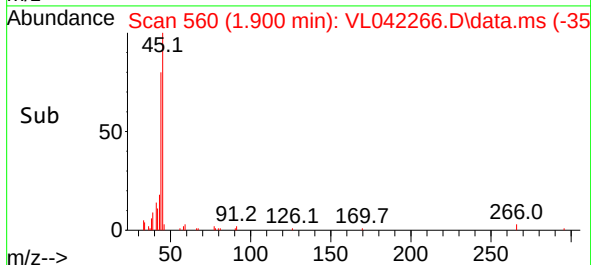
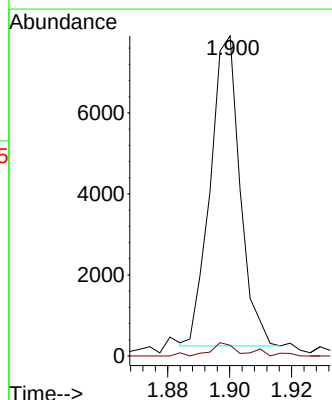
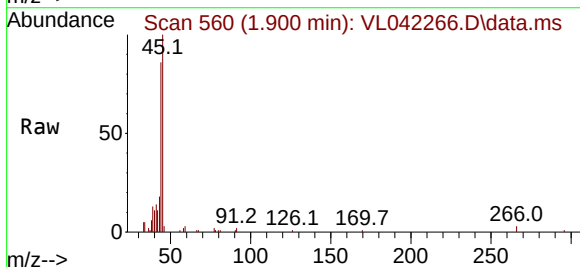
Acq: 08 Apr 2025 16:27

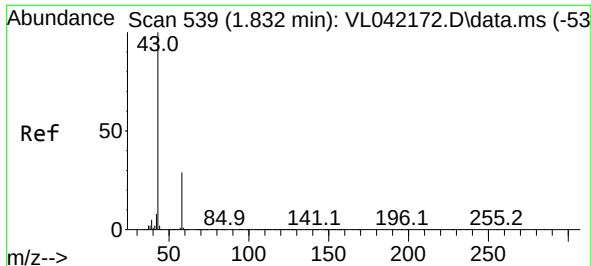
Tgt Ion: 45 Resp: 5113

Ion Ratio Lower Upper

45 100

46 0.0 20.2 80.8#





#15

Acetone

Concen: 2.153 ppbv

RT: 1.845 min Scan# 54

Delta R.T. 0.013 min

Lab File: VL042266.D

Acq: 08 Apr 2025 16:27

Instrument :

MSVOA_L

ClientSampleId :

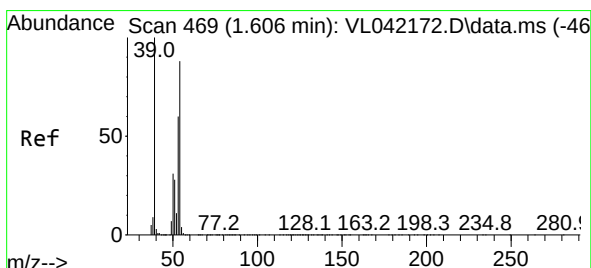
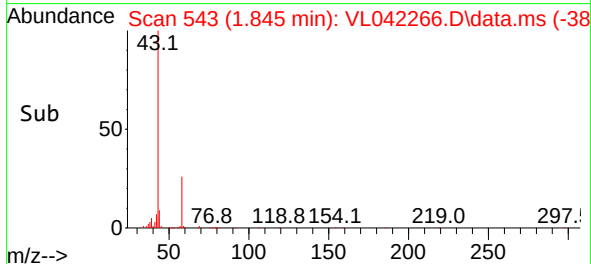
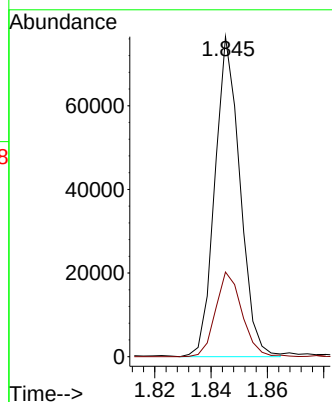
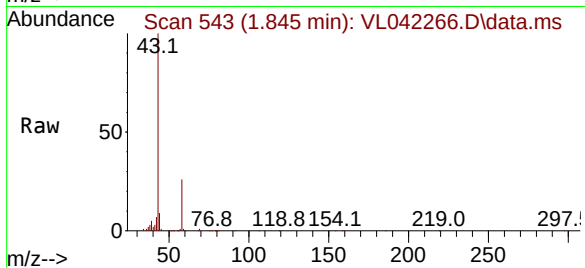
SSSG-B2-1-04022025

Tgt Ion: 43 Resp: 47368

Ion Ratio Lower Upper

43 100

58 28.0 23.2 34.8



#16

1,3-Butadiene

Concen: 0.121 ppbv

RT: 1.609 min Scan# 470

Delta R.T. 0.003 min

Lab File: VL042266.D

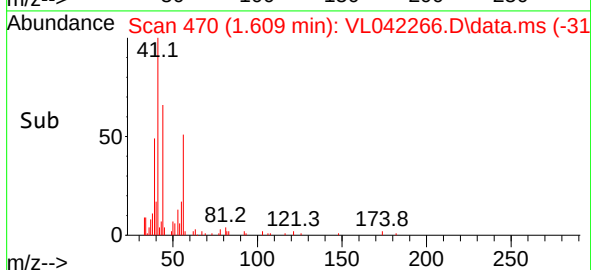
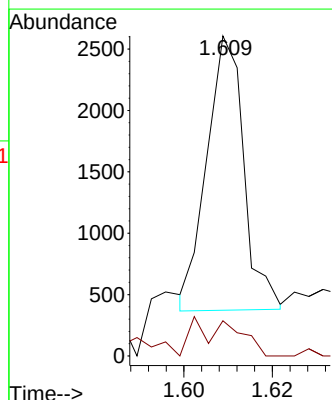
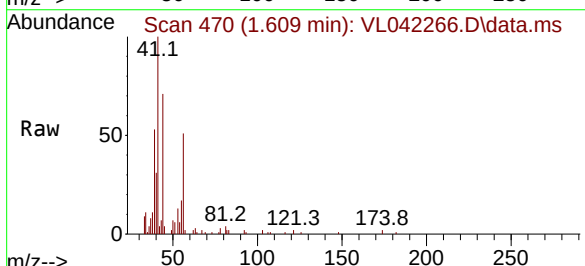
Acq: 08 Apr 2025 16:27

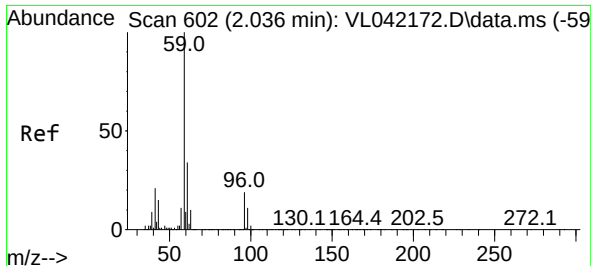
Tgt Ion: 39 Resp: 1300

Ion Ratio Lower Upper

39 100

54 23.3 60.7 91.1#





#17

tert-Butyl alcohol

Concen: 0.091 ppbv

RT: 2.055 min Scan# 60

Delta R.T. 0.019 min

Lab File: VL042266.D

Acq: 08 Apr 2025 16:27

Instrument :

MSVOA_1

ClientSampleId :

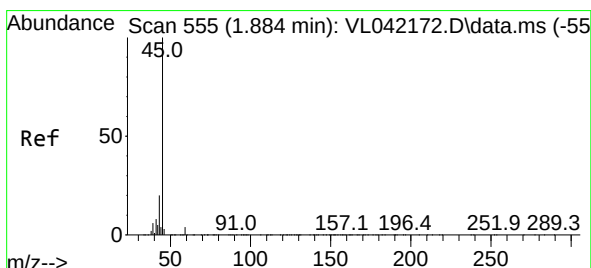
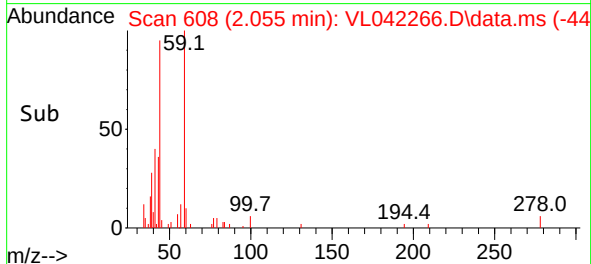
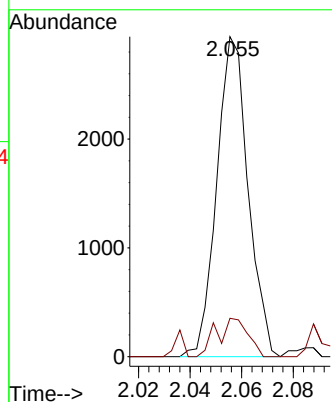
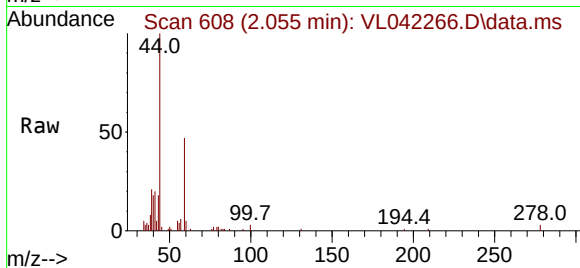
SSSG-B2-1-04022025

Tgt Ion: 59 Resp: 2485

Ion Ratio Lower Upper

59 100

57 14.3 8.9 13.3#



#19

Isopropyl Alcohol

Concen: 0.412 ppbv

RT: 1.900 min Scan# 560

Delta R.T. 0.016 min

Lab File: VL042266.D

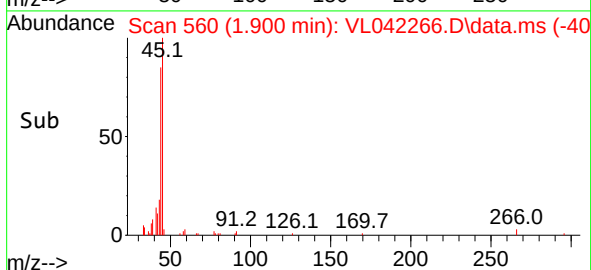
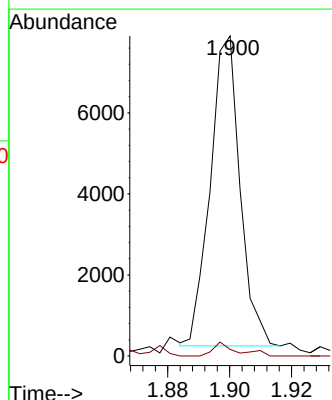
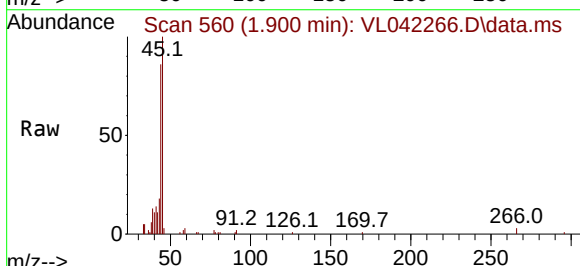
Acq: 08 Apr 2025 16:27

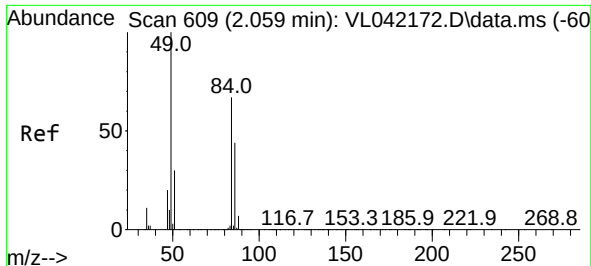
Tgt Ion: 45 Resp: 5113

Ion Ratio Lower Upper

45 100

58 259.3 36.9 55.3#





#20

Methylene Chloride

Concen: 0.250 ppbv

RT: 2.075 min Scan# 614

Delta R.T. 0.016 min

Lab File: VL042266.D

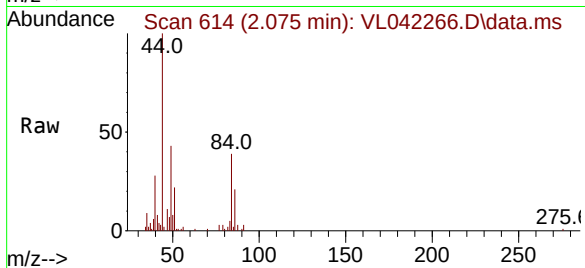
Acq: 08 Apr 2025 16:27

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-1-04022025



Tgt Ion: 84 Resp: 2047

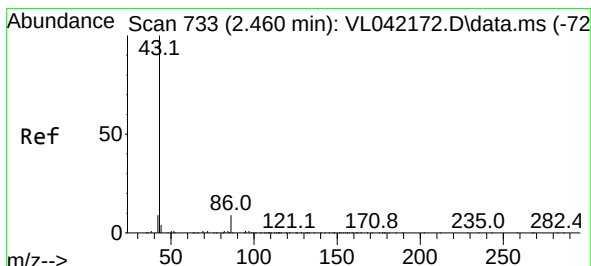
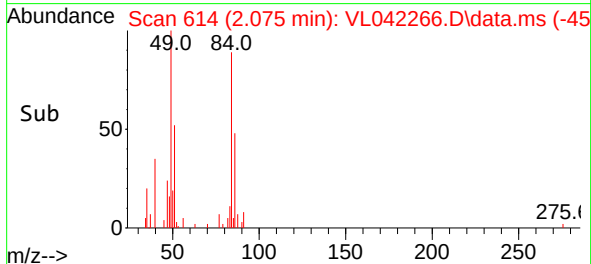
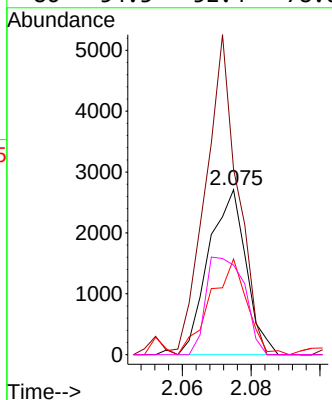
Ion Ratio Lower Upper

84 100

49 112.5 120.2 180.4#

51 58.0 37.4 56.0#

86 54.3 52.4 78.6



#23

Vinyl Acetate

Concen: 0.079 ppbv

RT: 2.486 min Scan# 741

Delta R.T. 0.026 min

Lab File: VL042266.D

Acq: 08 Apr 2025 16:27

Tgt Ion: 43 Resp: 755

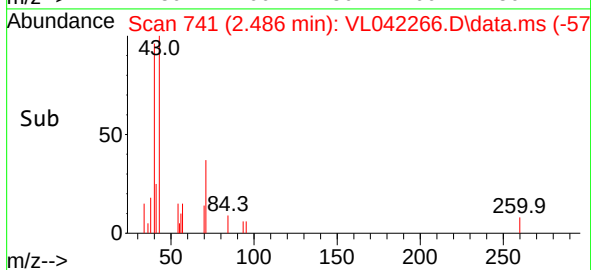
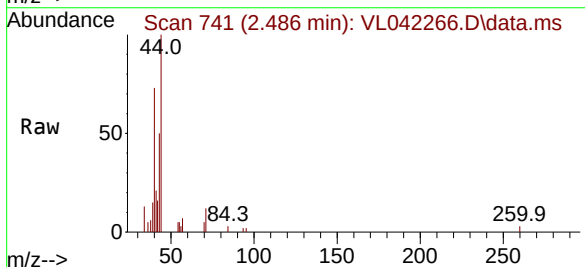
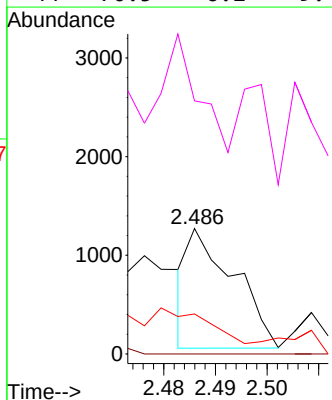
Ion Ratio Lower Upper

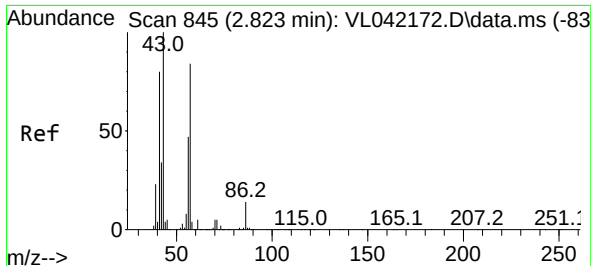
43 100

86 0.0 5.5 8.3#

42 20.0 8.6 13.0#

44 70.5 6.2 9.4#

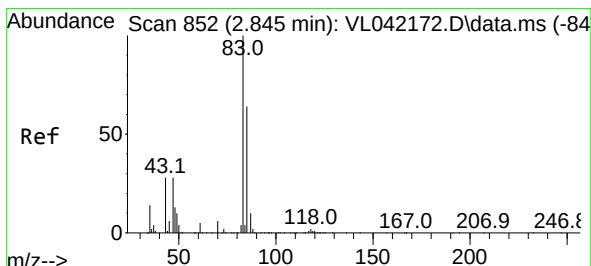
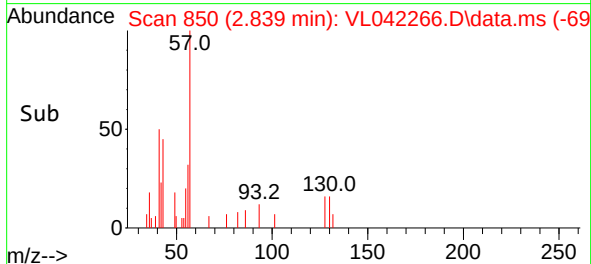
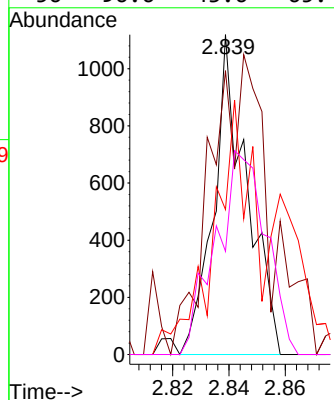
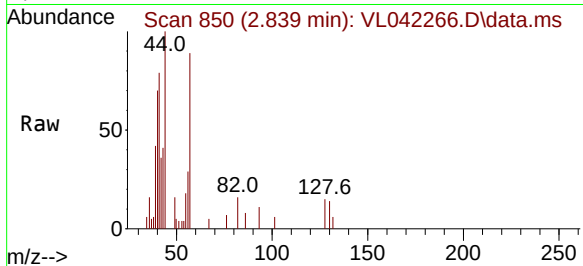




#26
Hexane
Concen: 0.041 ppbv
RT: 2.839 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042266.D
Acq: 08 Apr 2025 16:27

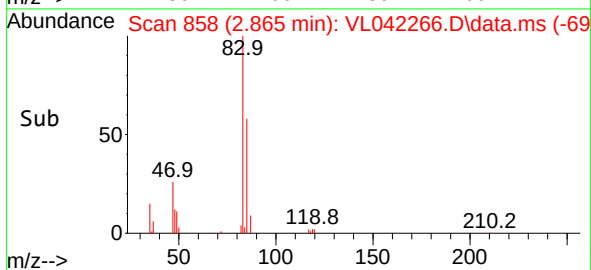
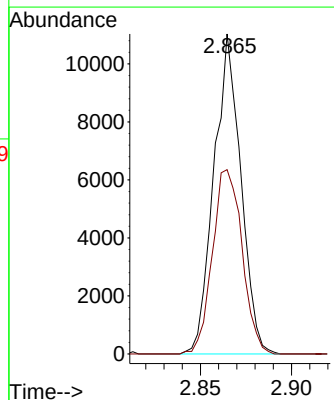
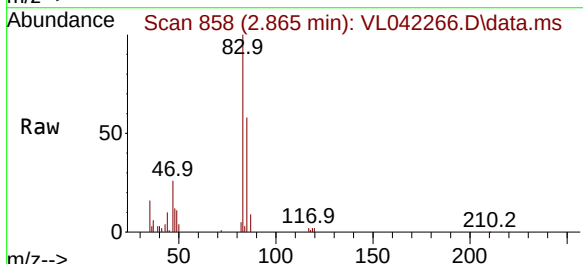
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025

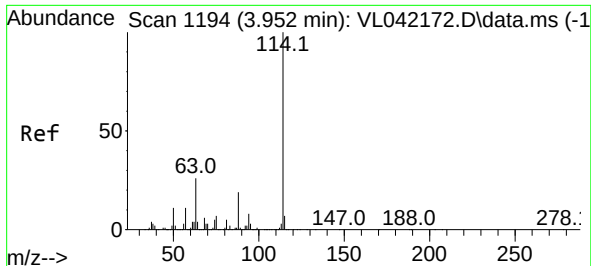
Tgt Ion:	57	Resp:	912
Ion	Ratio	Lower	Upper
57	100		
41	195.7	76.6	114.8#
43	147.7	207.8	311.8#
56	96.6	43.6	65.4#



#29
Chloroform
Concen: 0.351 ppbv
RT: 2.865 min Scan# 858
Delta R.T. 0.019 min
Lab File: VL042266.D
Acq: 08 Apr 2025 16:27

Tgt Ion:	83	Resp:	11335
Ion	Ratio	Lower	Upper
83	100		
85	57.6	51.4	77.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.981 min Scan# 11

Delta R.T. 0.029 min

Lab File: VL042266.D

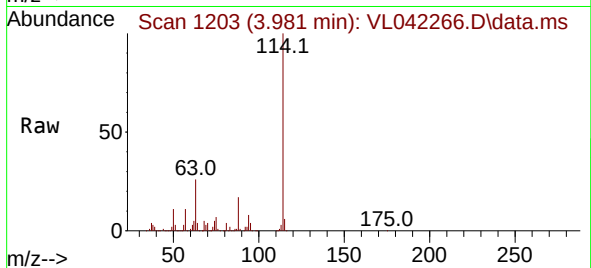
Acq: 08 Apr 2025 16:27

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-1-04022025



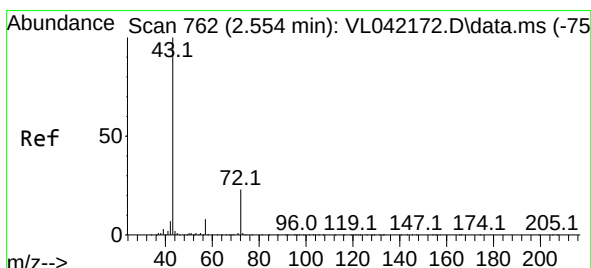
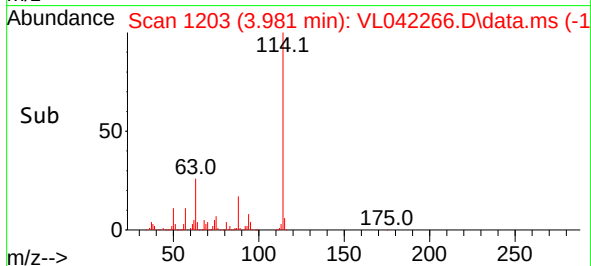
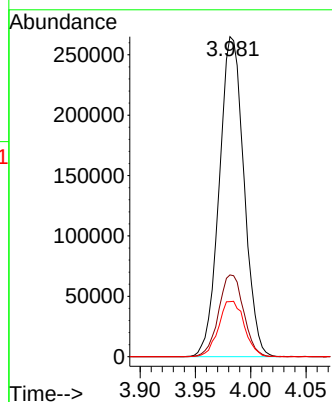
Tgt Ion:114 Resp: 411449

Ion Ratio Lower Upper

114 100

63 25.9 20.7 31.1

88 18.1 15.0 22.4



#34

2-Butanone

Concen: 0.131 ppbv

RT: 2.580 min Scan# 770

Delta R.T. 0.026 min

Lab File: VL042266.D

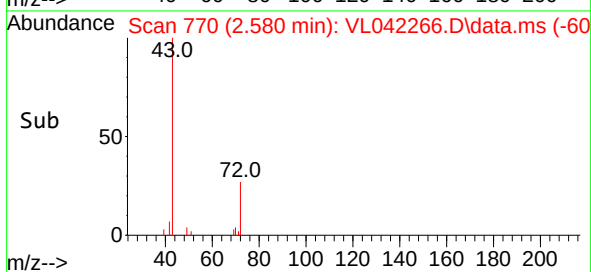
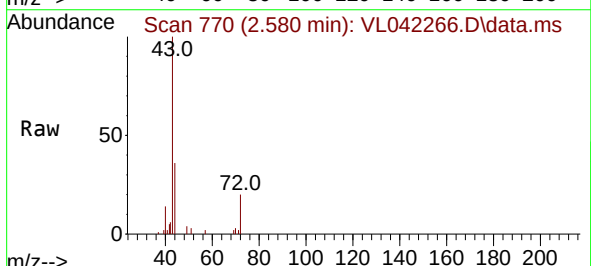
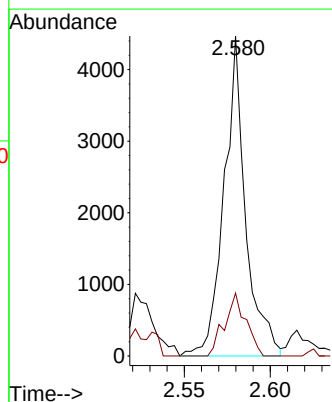
Acq: 08 Apr 2025 16:27

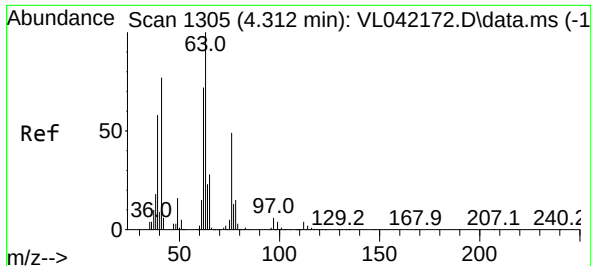
Tgt Ion: 43 Resp: 3906

Ion Ratio Lower Upper

43 100

72 19.3 18.2 27.2





#39

1,2-Dichloropropane

Concen: 7.176 ppbv

RT: 3.981 min Scan# 11

Delta R.T. -0.330 min

Lab File: VL042266.D

Acq: 08 Apr 2025 16:27

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-1-04022025

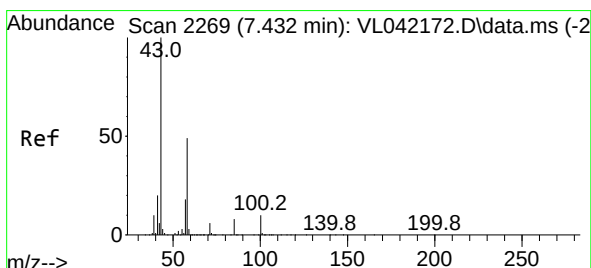
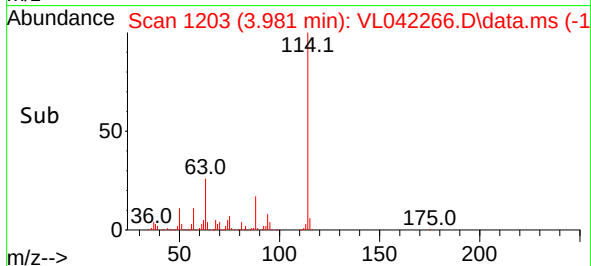
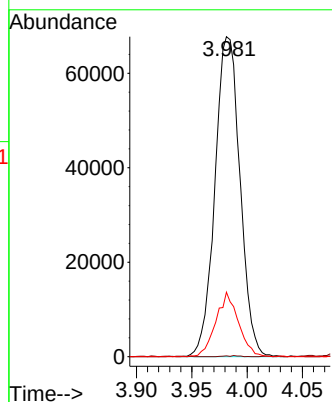
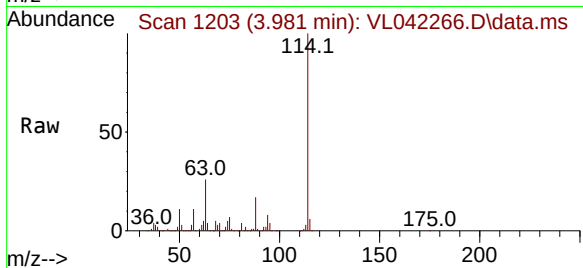
Tgt Ion: 63 Resp: 106607

Ion Ratio Lower Upper

63 100

41 0.1 61.7 92.5#

62 20.2 57.6 86.4#



#51

2-Hexanone

Concen: 0.578 ppbv

RT: 7.477 min Scan# 2283

Delta R.T. 0.045 min

Lab File: VL042266.D

Acq: 08 Apr 2025 16:27

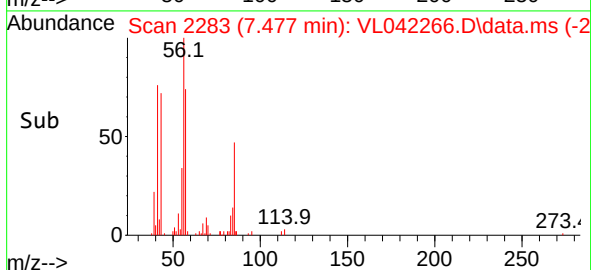
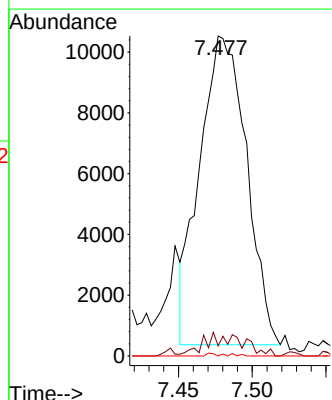
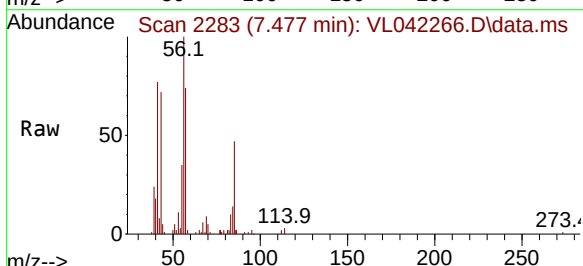
Tgt Ion: 43 Resp: 22452

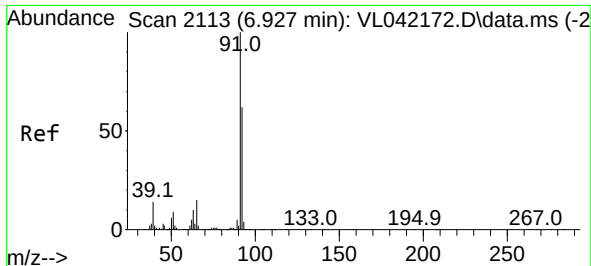
Ion Ratio Lower Upper

43 100

58 6.9 39.7 59.5#

98 0.0 0.1 0.1#

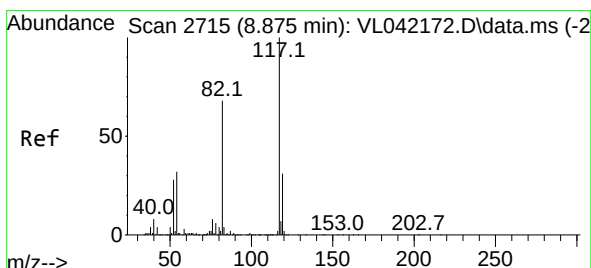
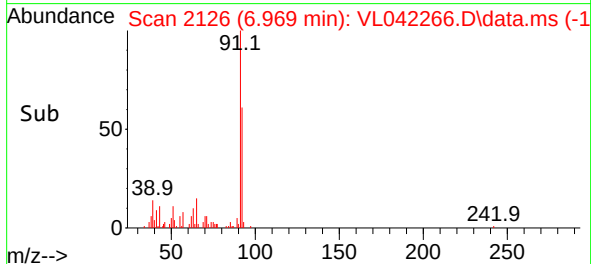
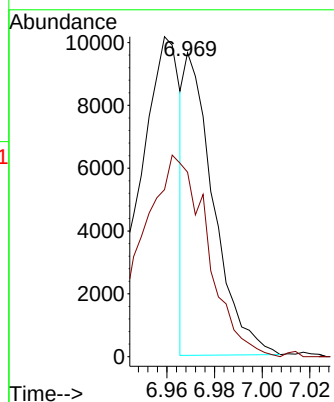
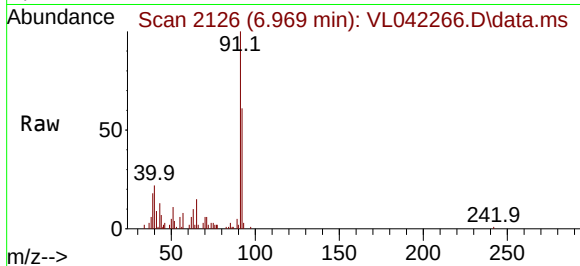




#53
Toluene
Concen: 0.169 ppbv
RT: 6.969 min Scan# 2113
Delta R.T. 0.042 min
Lab File: VL042266.D
Acq: 08 Apr 2025 16:27

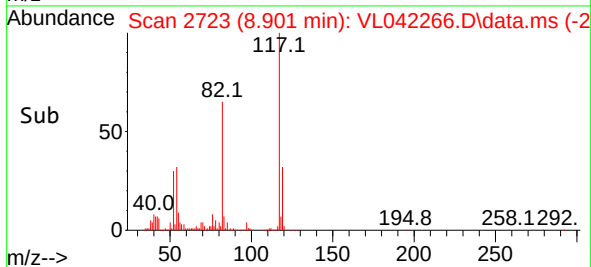
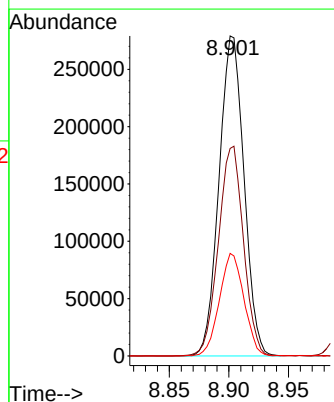
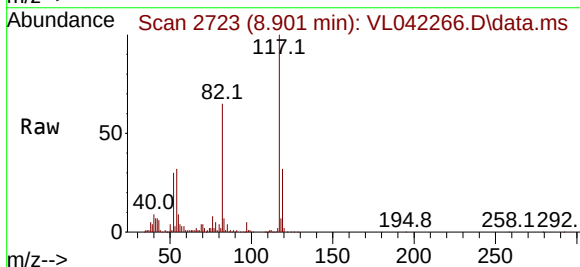
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025

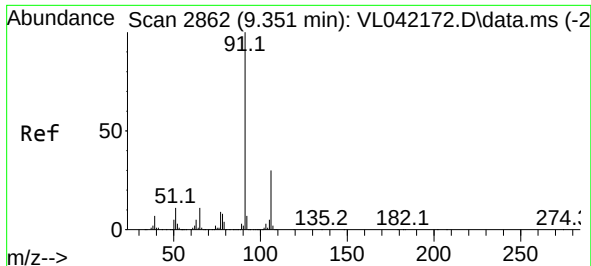
Tgt Ion: 91 Resp: 8154
Ion Ratio Lower Upper
91 100
92 0.0 48.4 72.6#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 2723
Delta R.T. 0.026 min
Lab File: VL042266.D
Acq: 08 Apr 2025 16:27

Tgt Ion: 117 Resp: 406705
Ion Ratio Lower Upper
117 100
82 65.9 55.8 83.6
119 31.7 25.5 38.3





#58

Ethyl Benzene

Concen: 0.548 ppbv

RT: 9.377 min Scan# 21

Delta R.T. 0.026 min

Lab File: VL042266.D

Acq: 08 Apr 2025 16:27

Instrument :

MSVOA_1

ClientSampleId :

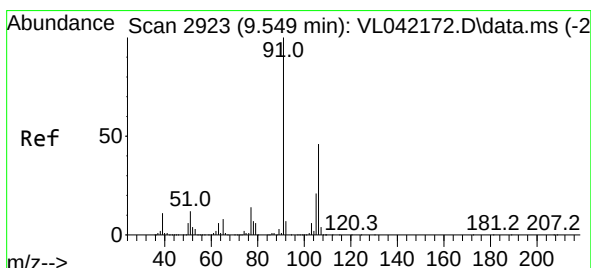
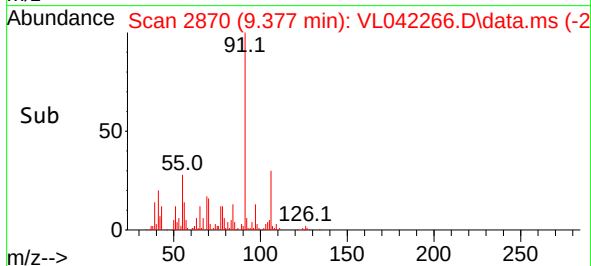
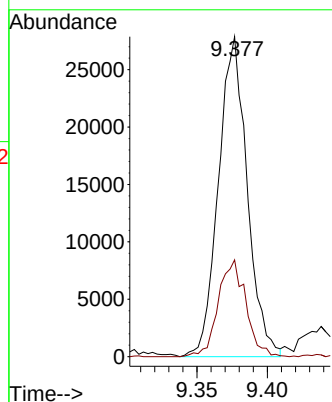
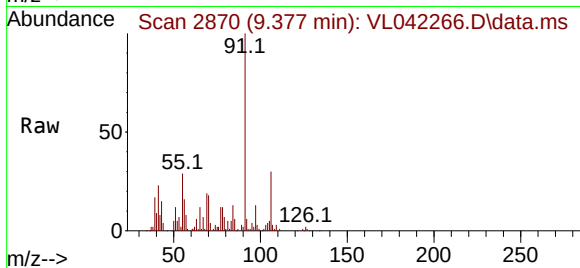
SSSG-B2-1-04022025

Tgt Ion: 91 Resp: 39620

Ion Ratio Lower Upper

91 100

106 30.2 24.2 36.2



#59

m/p-Xylene

Concen: 2.851 ppbv

RT: 9.568 min Scan# 2929

Delta R.T. 0.019 min

Lab File: VL042266.D

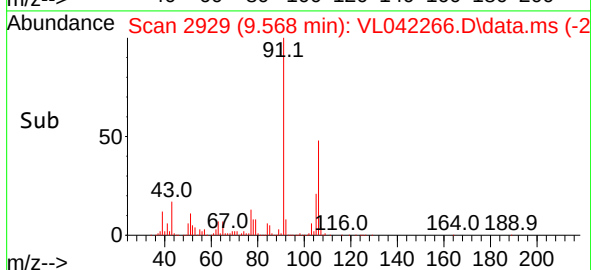
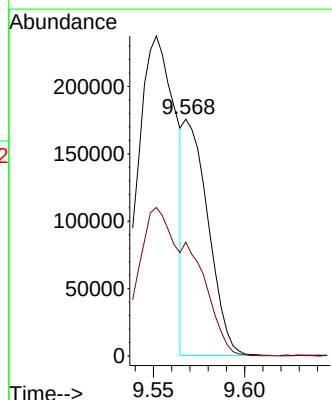
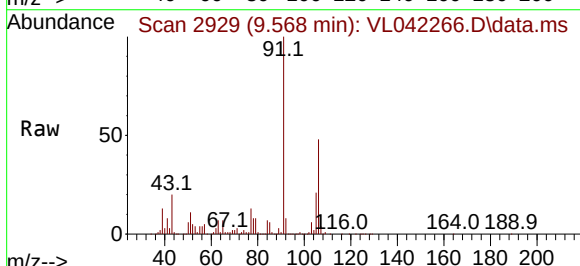
Acq: 08 Apr 2025 16:27

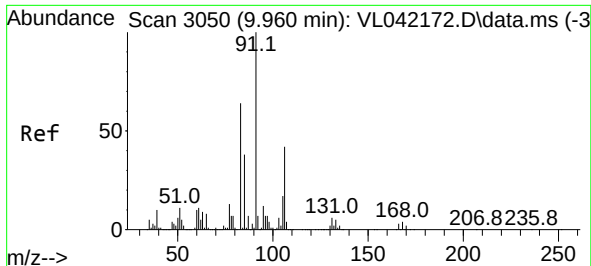
Tgt Ion: 91 Resp: 164440

Ion Ratio Lower Upper

91 100

106 0.0 36.4 54.6#

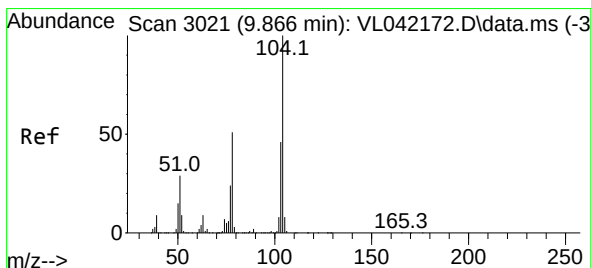
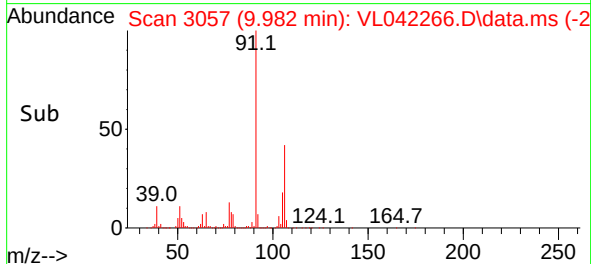
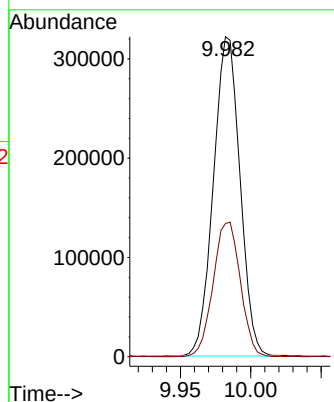
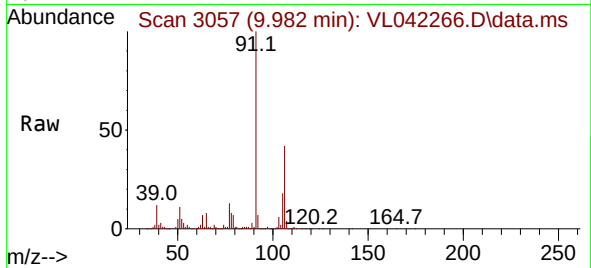




#60
o-Xylene
Concen: 7.293 ppbv
RT: 9.982 min Scan# 3050
Delta R.T. 0.022 min
Lab File: VL042266.D
Acq: 08 Apr 2025 16:27

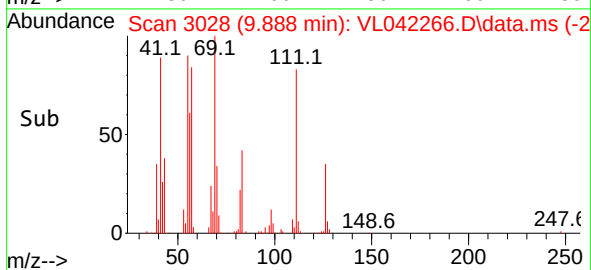
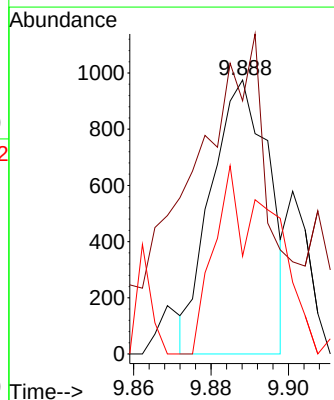
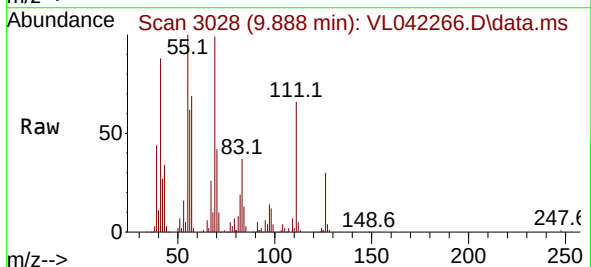
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025

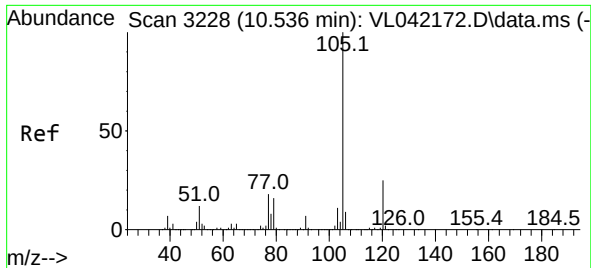
Tgt Ion: 91 Resp: 421737
Ion Ratio Lower Upper
91 100
106 43.2 20.8 62.5



#61
Styrene
Concen: 0.035 ppbv
RT: 9.888 min Scan# 3028
Delta R.T. 0.022 min
Lab File: VL042266.D
Acq: 08 Apr 2025 16:27

Tgt Ion: 104 Resp: 1012
Ion Ratio Lower Upper
104 100
78 206.7 41.8 62.6#
103 0.0 37.0 55.4#

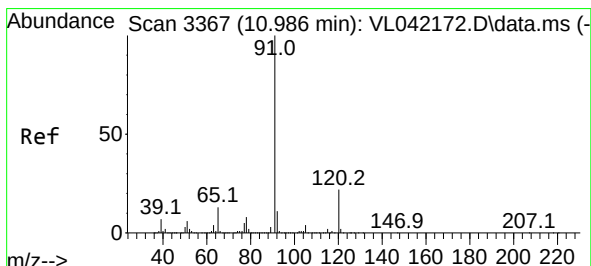
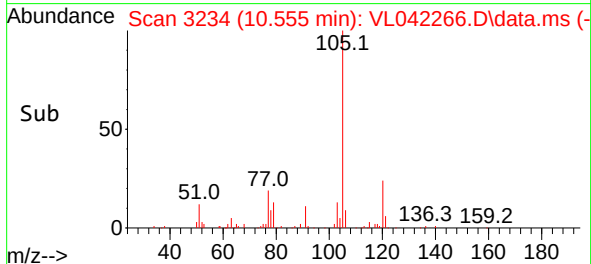
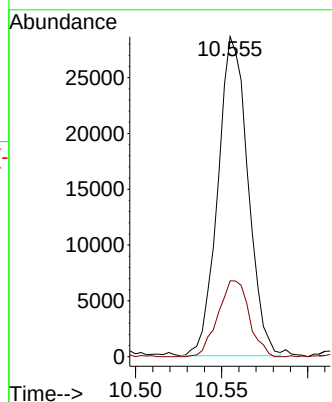
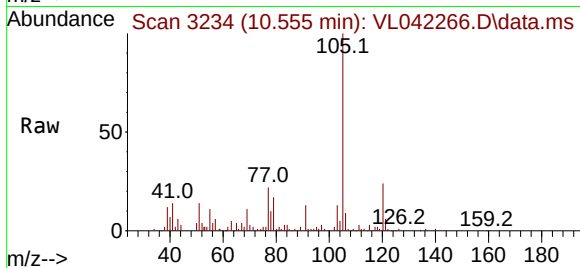




#62
Isopropylbenzene
Concen: 0.402 ppbv
RT: 10.555 min Scan# 31
Delta R.T. 0.019 min
Lab File: VL042266.D
Acq: 08 Apr 2025 16:27

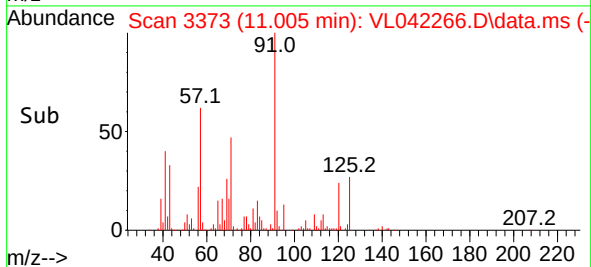
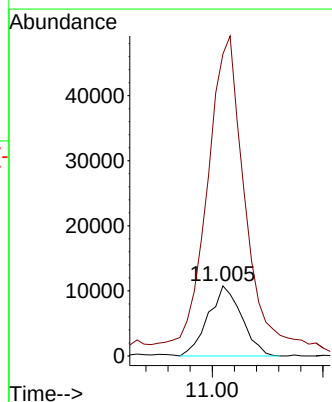
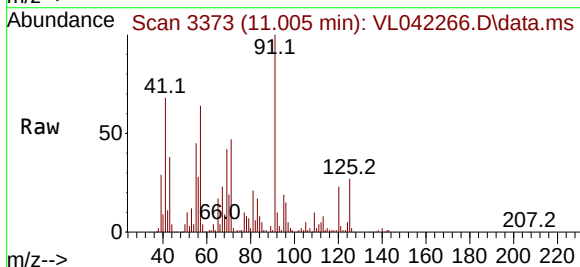
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025

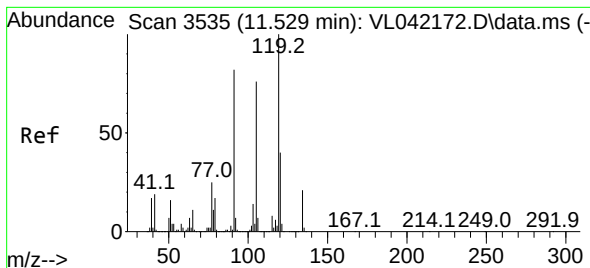
Tgt Ion:105 Resp: 34792
Ion Ratio Lower Upper
105 100
120 24.7 19.9 29.9



#64
n-propylbenzene
Concen: 0.507 ppbv
RT: 11.005 min Scan# 3373
Delta R.T. 0.019 min
Lab File: VL042266.D
Acq: 08 Apr 2025 16:27

Tgt Ion:120 Resp: 11288
Ion Ratio Lower Upper
120 100
91 516.6 376.9 565.3





#65

tert-Butylbenzene

Concen: 1.052 ppbv

RT: 11.552 min Scan# 3542

Delta R.T. 0.022 min

Lab File: VL042266.D

Acq: 08 Apr 2025 16:27

Instrument :

MSVOA_1

ClientSampleId :

SSSG-B2-1-04022025

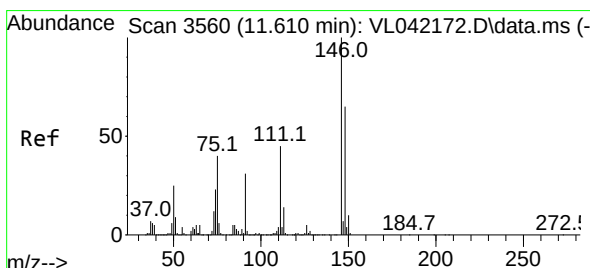
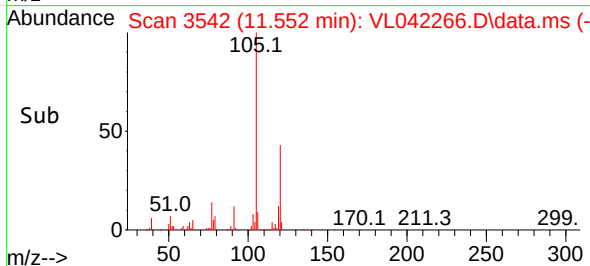
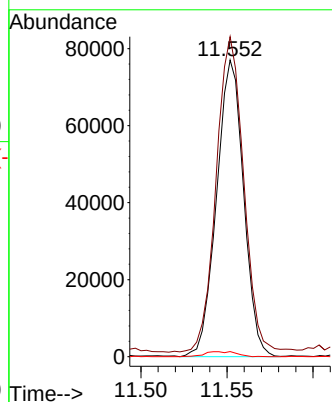
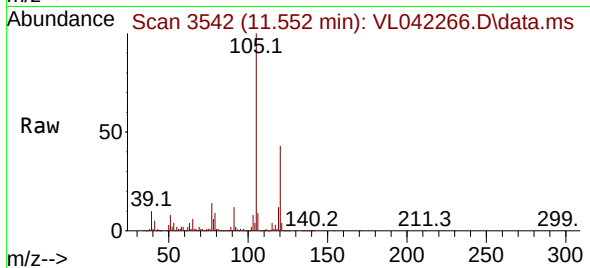
Tgt Ion:119 Resp: 84175

Ion Ratio Lower Upper

119 100

91 108.5 66.0 99.0#

134 2.0 16.7 25.1#



#66

Benzyl Chloride

Concen: 0.153 ppbv

RT: 11.704 min Scan# 3589

Delta R.T. 0.094 min

Lab File: VL042266.D

Acq: 08 Apr 2025 16:27

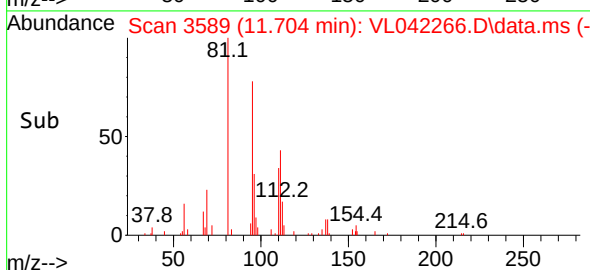
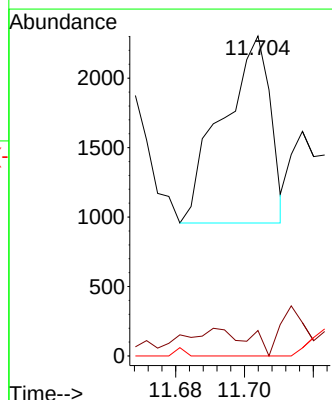
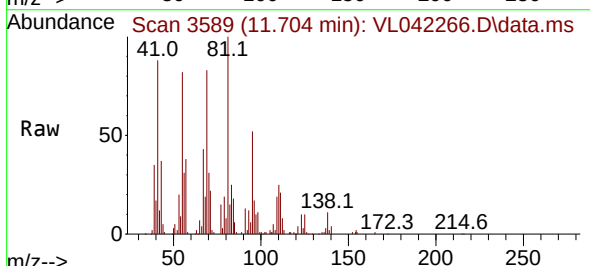
Tgt Ion: 91 Resp: 1300

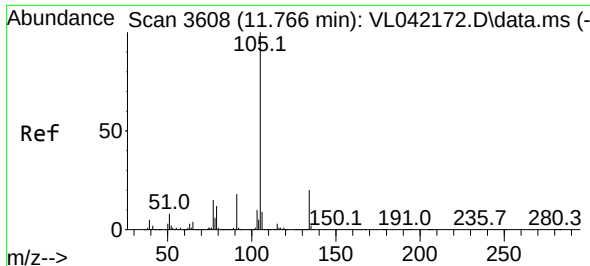
Ion Ratio Lower Upper

91 100

126 22.1 13.8 20.6#

128 0.0 4.5 6.7#





#67

sec-Butylbenzene

Concen: 0.282 ppbv

RT: 11.782 min Scan# 3184

Delta R.T. 0.016 min

Lab File: VL042266.D

Acq: 08 Apr 2025 16:27

Instrument :

MSVOA_L

ClientSampleId :

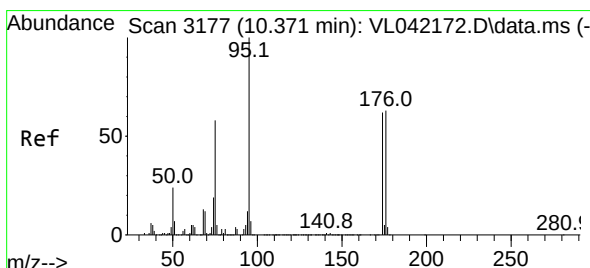
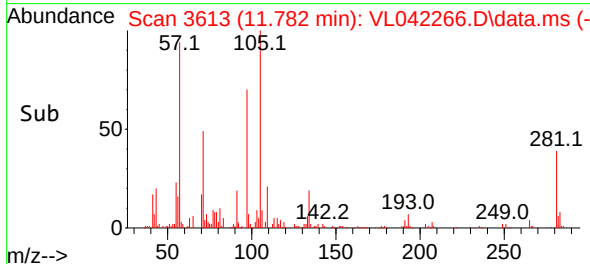
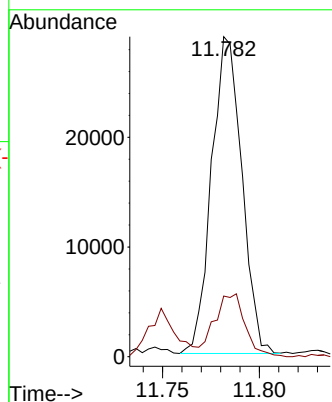
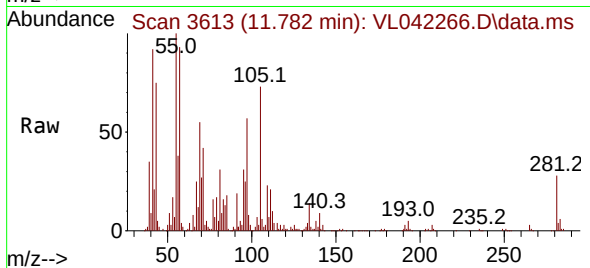
SSSG-B2-1-04022025

Tgt Ion:105 Resp: 31349

Ion Ratio Lower Upper

105 100

134 34.2 15.5 23.3#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.586 ppbv

RT: 10.393 min Scan# 3184

Delta R.T. 0.022 min

Lab File: VL042266.D

Acq: 08 Apr 2025 16:27

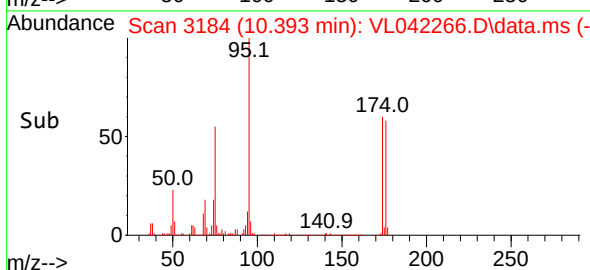
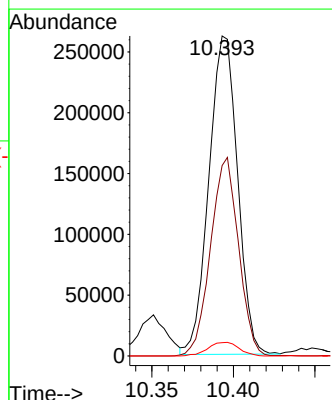
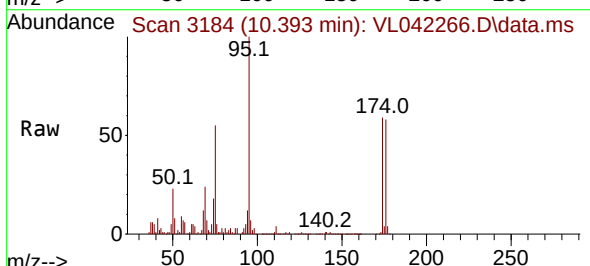
Tgt Ion: 95 Resp: 320156

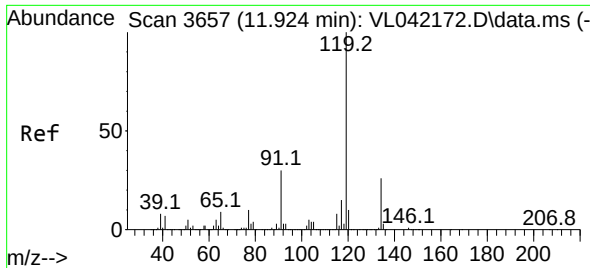
Ion Ratio Lower Upper

95 100

174 60.9 50.6 76.0

175 4.6 3.8 5.6

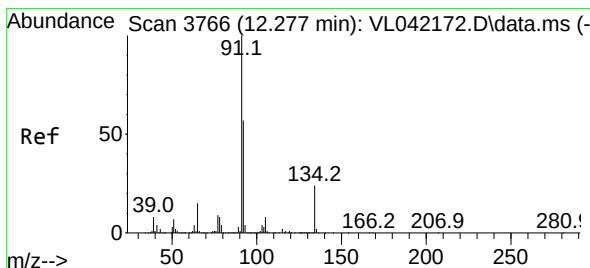
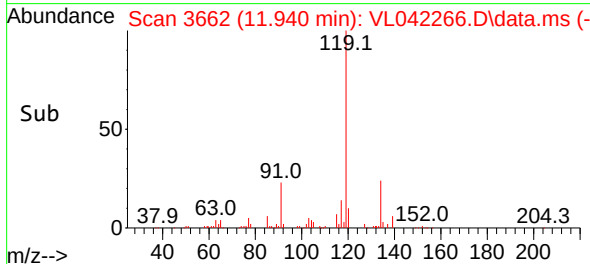
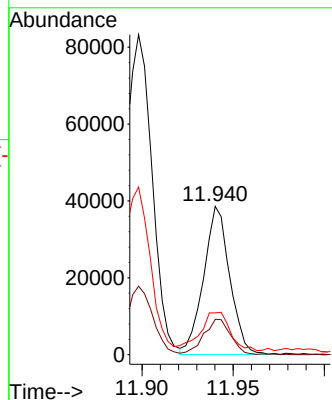
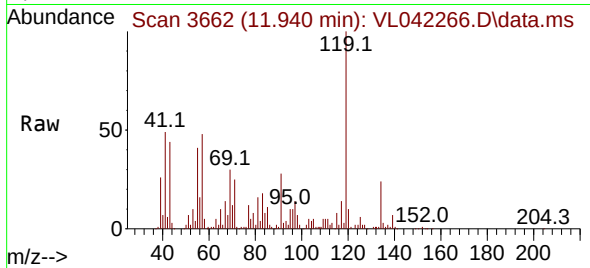




#69
p-Isopropyltoluene
Concen: 0.401 ppbv
RT: 11.940 min Scan# 3075
Delta R.T. 0.016 min
Lab File: VL042266.D
Acq: 08 Apr 2025 16:27

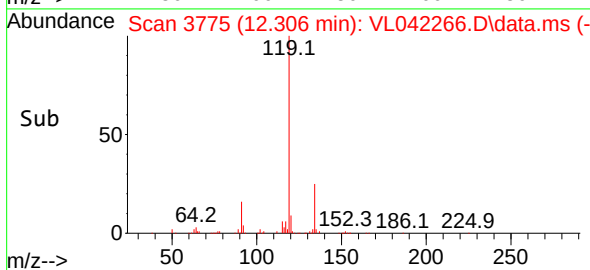
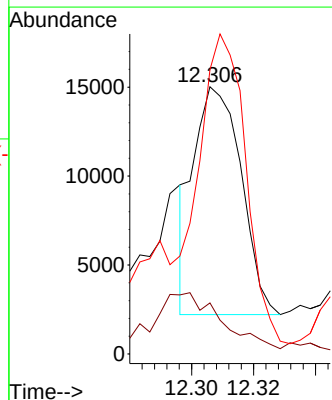
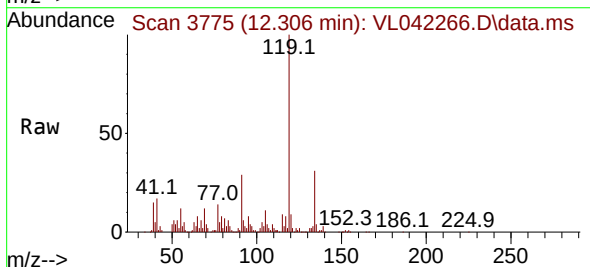
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025

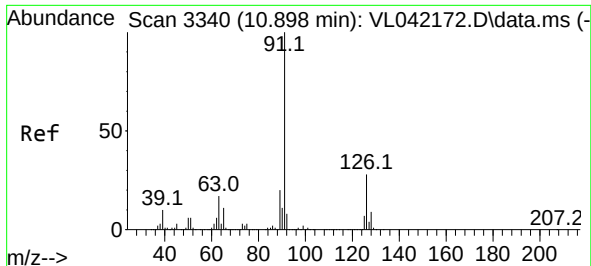
Tgt Ion:119	Resp:	38407
Ion	Ratio	Lower Upper
119	100	
134	24.6	20.4 30.6
91	28.3	23.7 35.5



#70
n-Butylbenzene
Concen: 0.139 ppbv
RT: 12.306 min Scan# 3775
Delta R.T. 0.029 min
Lab File: VL042266.D
Acq: 08 Apr 2025 16:27

Tgt Ion: 91	Resp:	13566
Ion	Ratio	Lower Upper
91	100	
92	46.8	44.9 67.3
134	195.6	19.2 28.8#

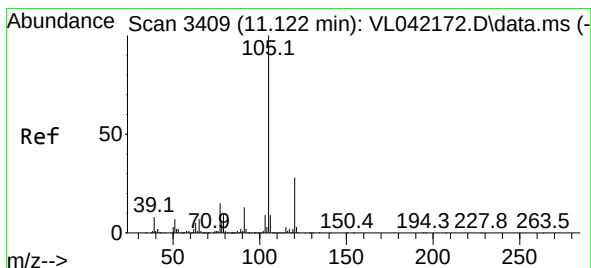
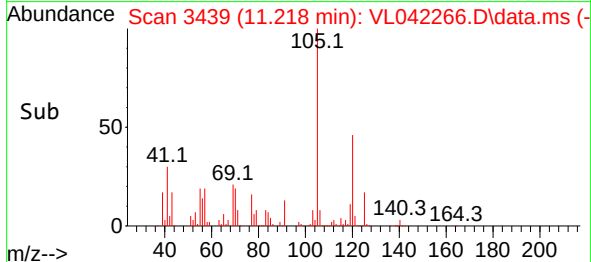
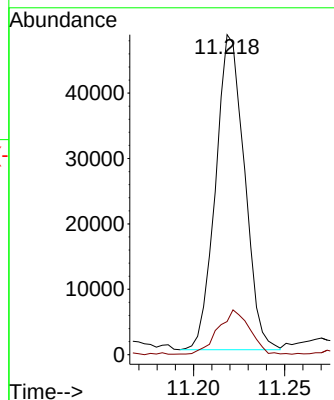
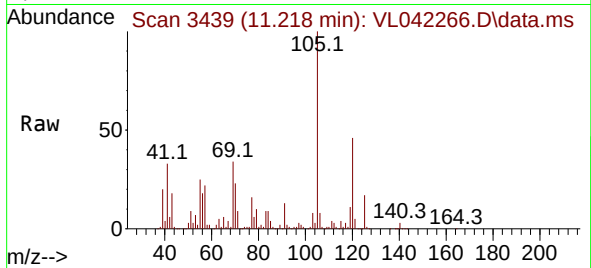




#71
2-Chlorotoluene
Concen: 0.791 ppbv
RT: 11.218 min Scan# 3415
Delta R.T. 0.320 min
Lab File: VL042266.D
Acq: 08 Apr 2025 16:27

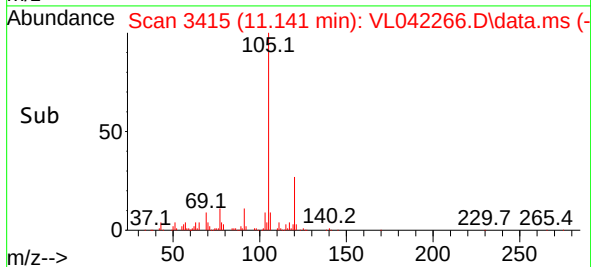
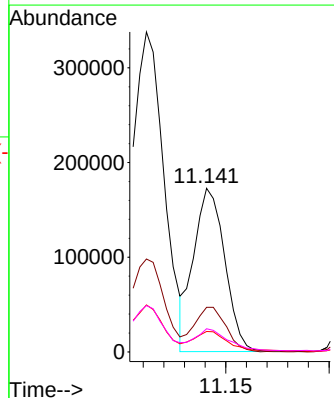
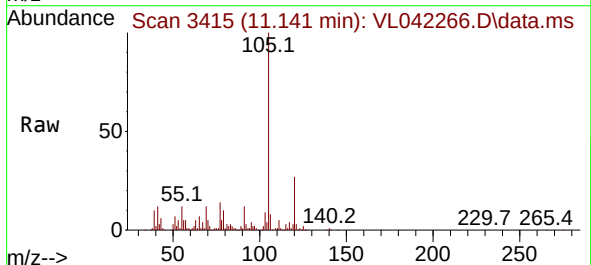
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025

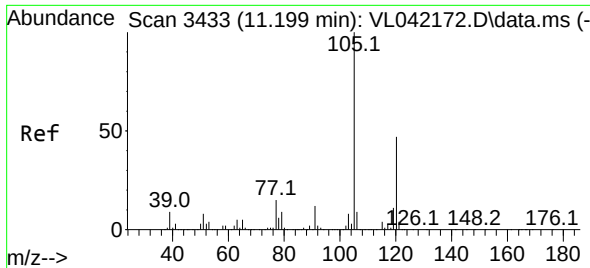
Tgt Ion: 91 Resp: 53058
Ion Ratio Lower Upper
91 100
126 15.7 11.6 46.4



#72
4-Ethyltoluene
Concen: 2.510 ppbv
RT: 11.141 min Scan# 3415
Delta R.T. 0.019 min
Lab File: VL042266.D
Acq: 08 Apr 2025 16:27

Tgt Ion: 105 Resp: 180705
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#

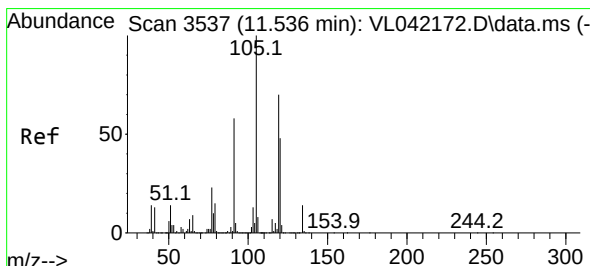
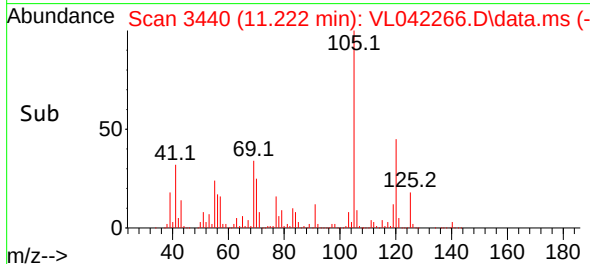
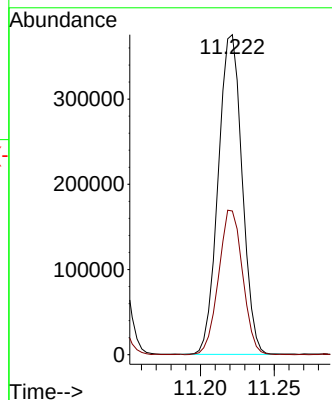
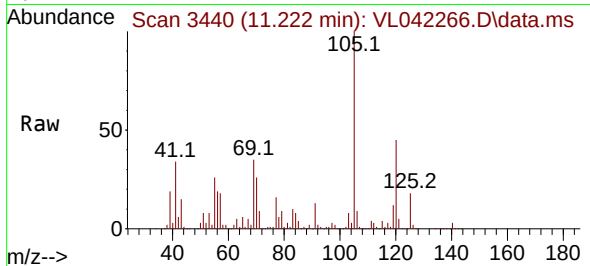




#73
 1,3,5-Trimethylbenzene
 Concen: 6.731 ppbv
 RT: 11.222 min Scan# 3433
 Delta R.T. 0.022 min
 Lab File: VL042266.D
 Acq: 08 Apr 2025 16:27

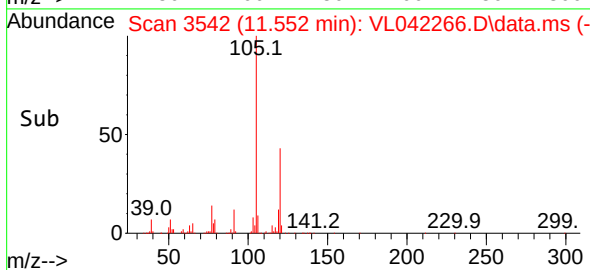
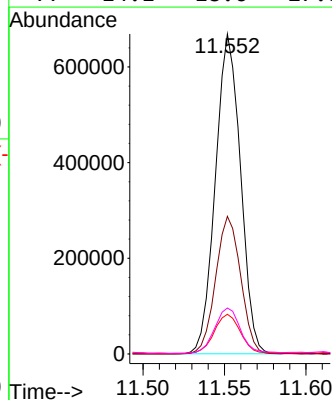
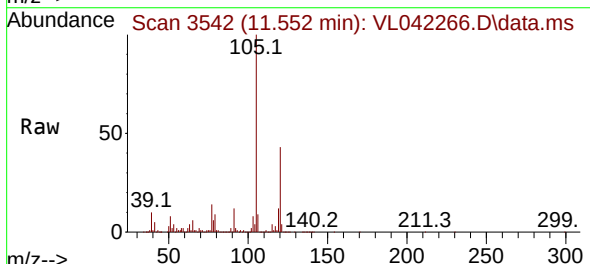
Instrument :
 MSVOA_1
 ClientSampleId :
 SSSG-B2-1-04022025

Tgt Ion:105 Resp: 423292
 Ion Ratio Lower Upper
 105 100
 120 44.8 37.4 56.0



#74
 1,2,4-Trimethylbenzene
 Concen: 9.855 ppbv
 RT: 11.552 min Scan# 3542
 Delta R.T. 0.016 min
 Lab File: VL042266.D
 Acq: 08 Apr 2025 16:27

Tgt Ion:105 Resp: 713955
 Ion Ratio Lower Upper
 105 100
 120 43.0 38.6 58.0
 91 12.2 46.2 69.2#
 77 14.1 18.6 27.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042267.D
 Acq On : 08 Apr 2025 16:58
 Operator : SY/MD
 Sample : Q1728-01DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B14-2-04012025DL

Quant Time: Apr 09 01:57:53 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)

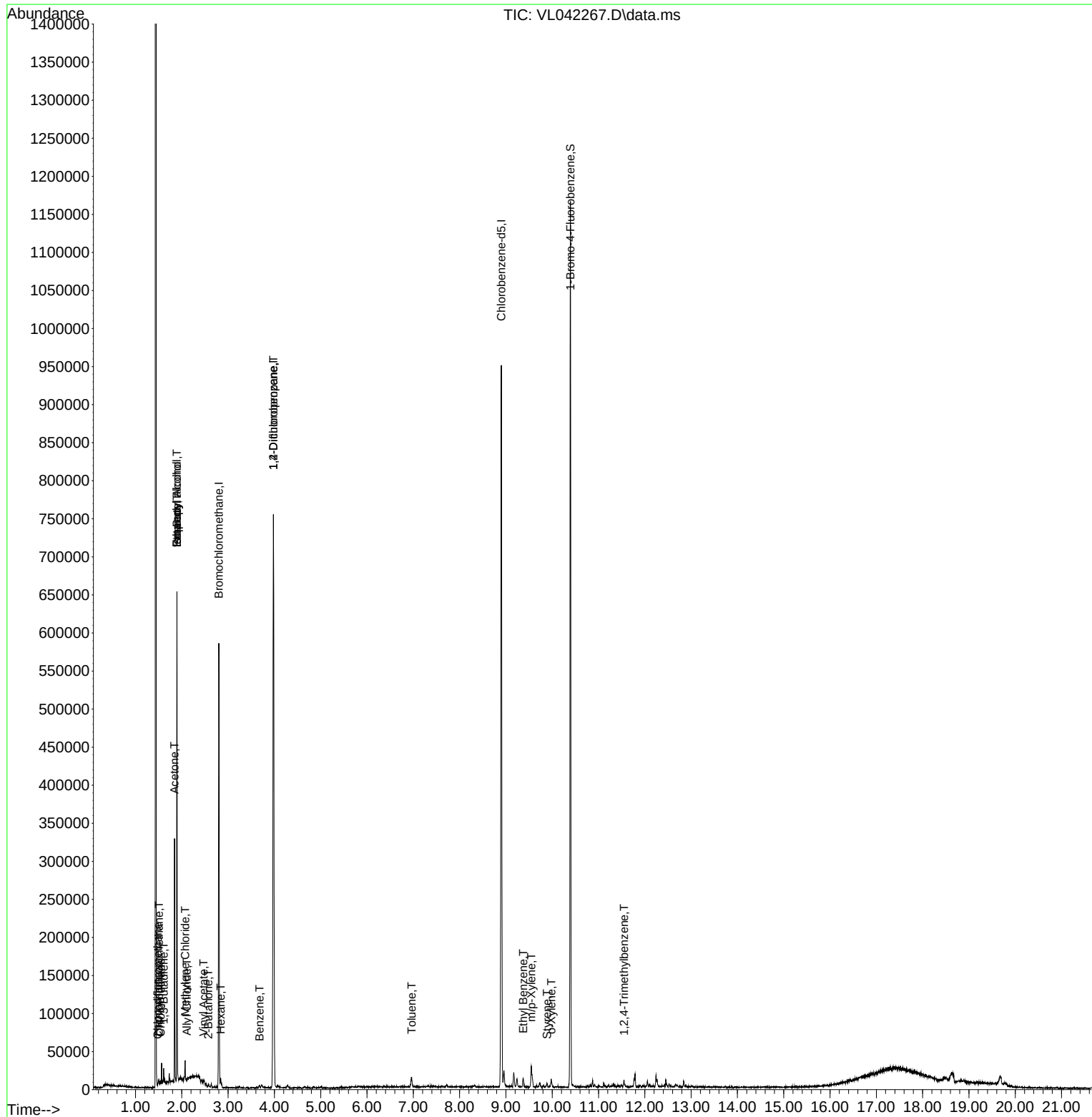
Internal Standards						
1) Bromochloromethane	2.800	49	162199	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.978	114	442538	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.901	117	374779	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	293027	9.521	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.505	85	927	0.039	ppbv #	56
3) Chlorodifluoromethane	1.483	51	894	0.037	ppbv #	71
4) Chloromethane	1.541	50	773	0.079	ppbv #	76
9) Propene	1.894	41	24148	2.153	ppbv	87
13) Ethanol	1.894	45	260805	246.028	ppbv #	31
15) Acetone	1.842	43	143227	6.314	ppbv	95
16) 1,3-Butadiene	1.609	39	1737	0.157	ppbv #	29
17) tert-Butyl alcohol	1.894	59	9905	0.351	ppbv	98
19) Isopropyl Alcohol	1.894	45	260805	20.377	ppbv #	32
20) Methylene Chloride	2.072	84	3668	0.434	ppbv #	94
21) Allyl Chloride	2.107	41	519	0.032	ppbv #	27
23) Vinyl Acetate	2.470	43	1449	0.148	ppbv #	87
26) Hexane	2.839	57	2560	0.113	ppbv #	36
34) 2-Butanone	2.573	43	3451	0.108	ppbv	99
36) Benzene	3.680	78	1725	0.039	ppbv	92
39) 1,2-Dichloropropane	3.978	63	112078	7.015	ppbv #	23
53) Toluene	6.965	91	3183	0.061	ppbv #	20
58) Ethyl Benzene	9.374	91	6254	0.094	ppbv	93
59) m/p-Xylene	9.548	91	16114	0.303	ppbv	89
60) o-Xylene	9.979	91	4532	0.085	ppbv	97
61) Styrene	9.888	104	1259	0.048	ppbv	89
74) 1,2,4-Trimethylbenzene	11.552	105	2593	0.039	ppbv #	67

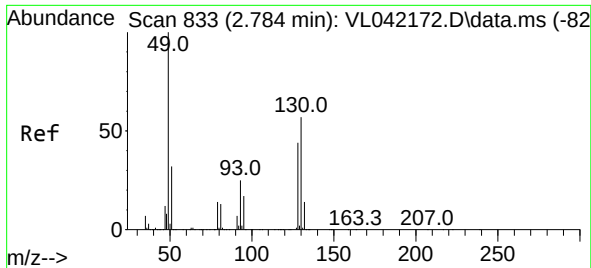
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042267.D
Acq On : 08 Apr 2025 16:58
Operator : SY/MD
Sample : Q1728-01DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025DL

Quant Time: Apr 09 01:57:53 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

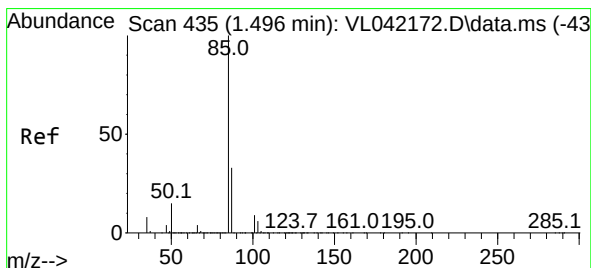
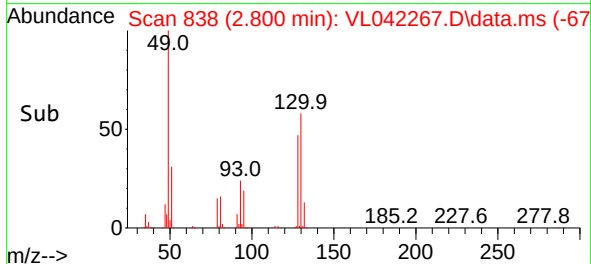
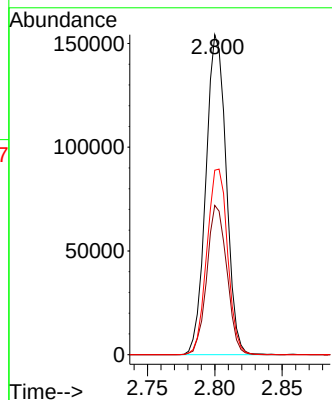
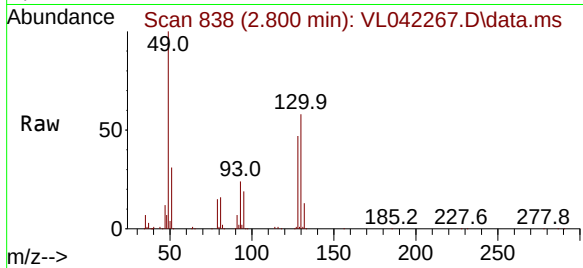




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

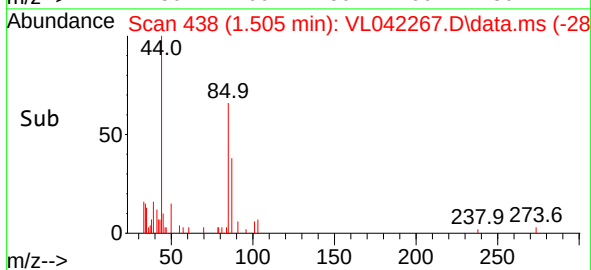
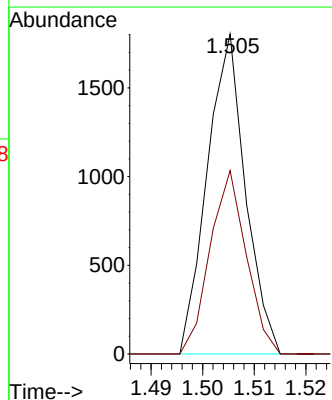
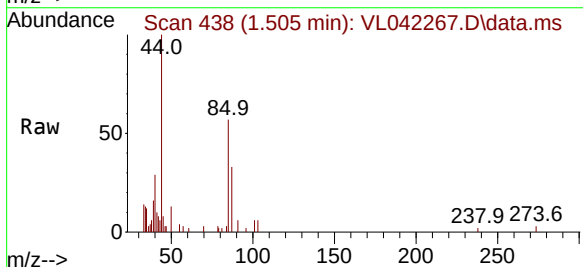
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025DL

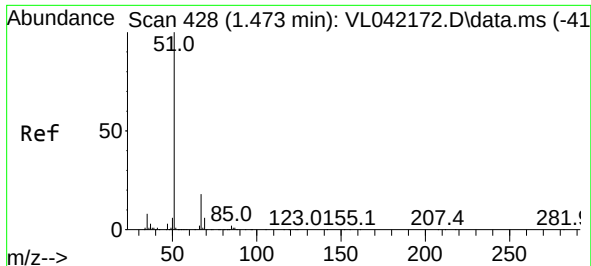
Tgt Ion: 49 Resp: 162199
Ion Ratio Lower Upper
49 100
128 45.9 22.9 68.5
130 59.1 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.039 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.010 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

Tgt Ion: 85 Resp: 927
Ion Ratio Lower Upper
85 100
87 57.3 26.1 39.1#

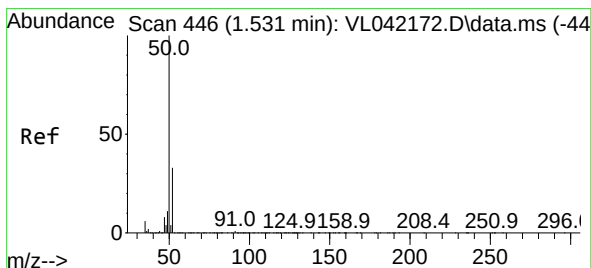
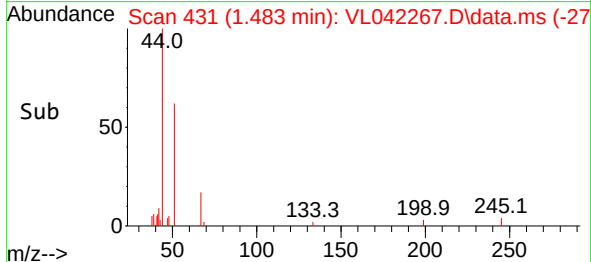
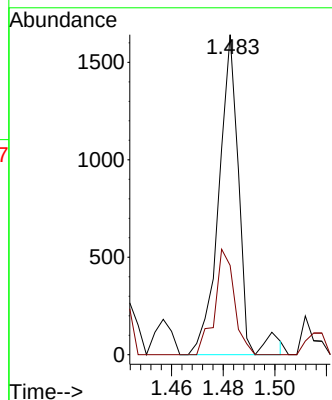
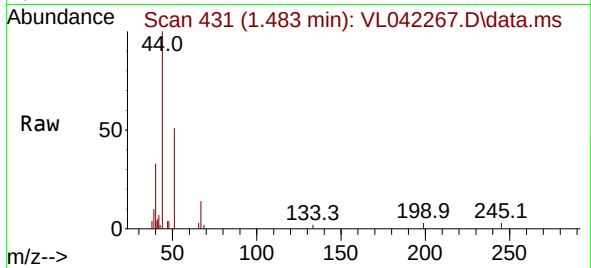




#3
Chlorodifluoromethane
Concen: 0.037 ppbv
RT: 1.483 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

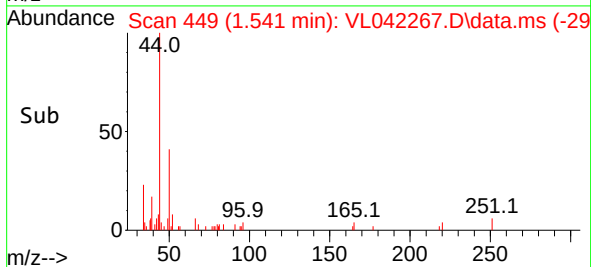
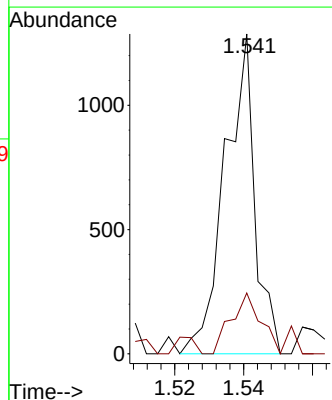
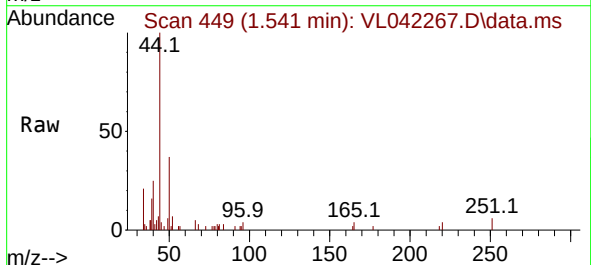
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025DL

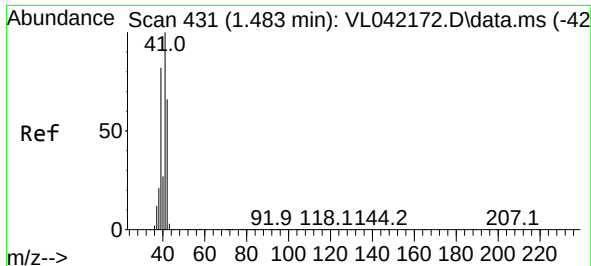
Tgt Ion: 51 Resp: 894
Ion Ratio Lower Upper
51 100
67 31.7 15.0 22.6#



#4
Chloromethane
Concen: 0.079 ppbv
RT: 1.541 min Scan# 449
Delta R.T. 0.010 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

Tgt Ion: 50 Resp: 773
Ion Ratio Lower Upper
50 100
52 19.0 26.1 39.1#





#9

Propene

Concen: 2.153 ppbv

RT: 1.894 min Scan# 5

Delta R.T. 0.411 min

Lab File: VL042267.D

Acq: 08 Apr 2025 16:58

Instrument :

MSVOA_L

ClientSampleId :

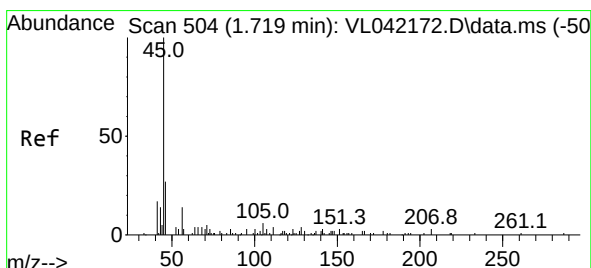
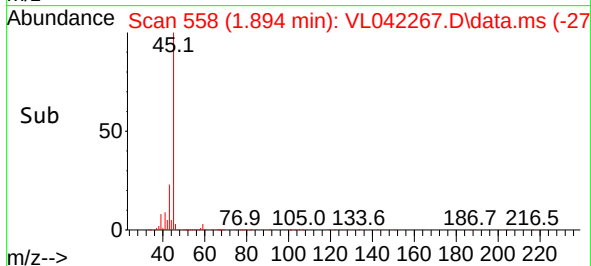
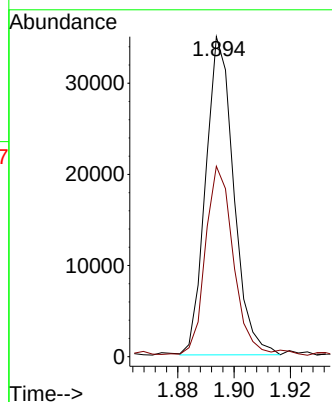
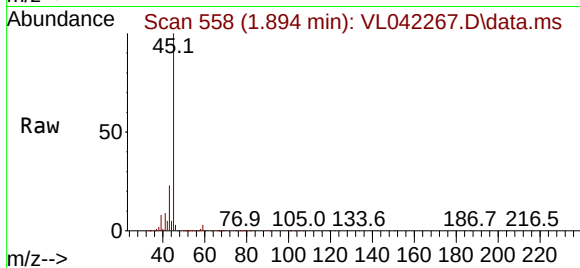
SSSG-B14-2-04012025DL

Tgt Ion: 41 Resp: 24148

Ion Ratio Lower Upper

41 100

42 58.7 55.4 83.2



#13

Ethanol

Concen: 246.028 ppbv

RT: 1.894 min Scan# 558

Delta R.T. 0.175 min

Lab File: VL042267.D

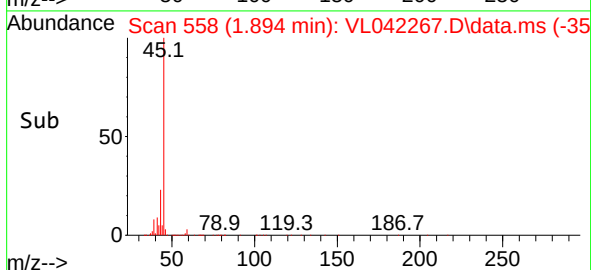
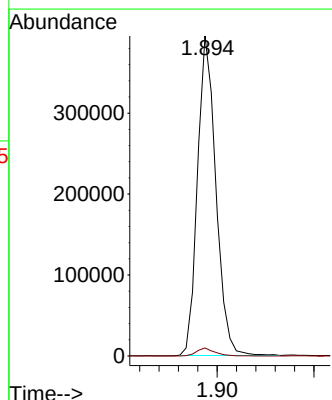
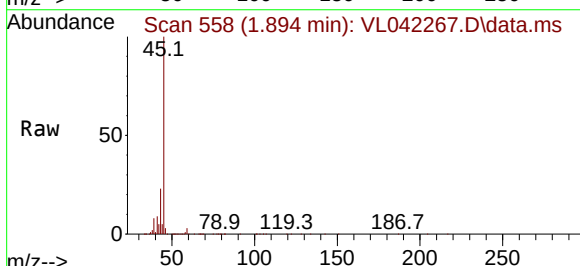
Acq: 08 Apr 2025 16:58

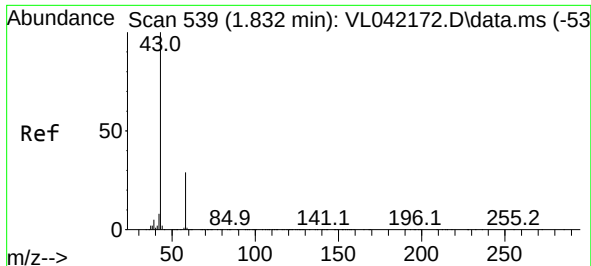
Tgt Ion: 45 Resp: 260805

Ion Ratio Lower Upper

45 100

46 2.5 20.2 80.8#





#15

Acetone

Concen: 6.314 ppbv

RT: 1.842 min Scan# 54

Delta R.T. 0.010 min

Lab File: VL042267.D

Acq: 08 Apr 2025 16:58

Instrument :

MSVOA_L

ClientSampleId :

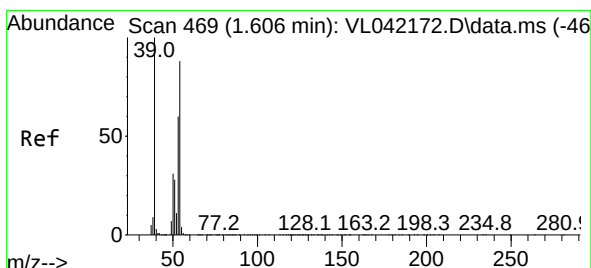
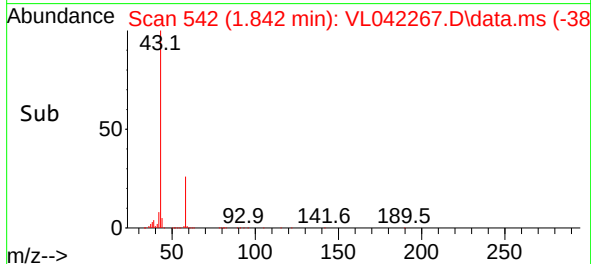
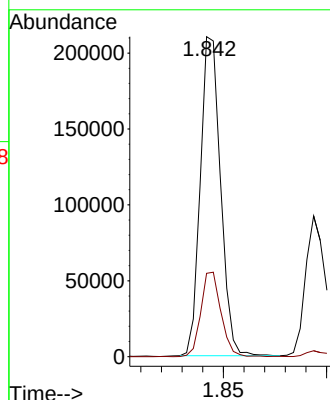
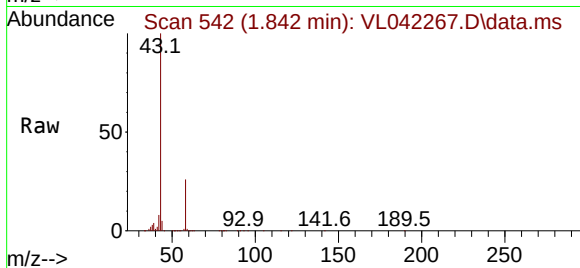
SSSG-B14-2-04012025DL

Tgt Ion: 43 Resp: 143227

Ion Ratio Lower Upper

43 100

58 26.5 23.2 34.8



#16

1,3-Butadiene

Concen: 0.157 ppbv

RT: 1.609 min Scan# 470

Delta R.T. 0.003 min

Lab File: VL042267.D

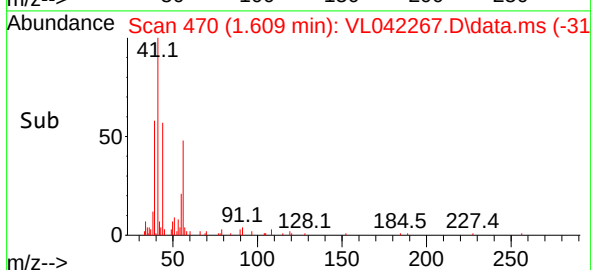
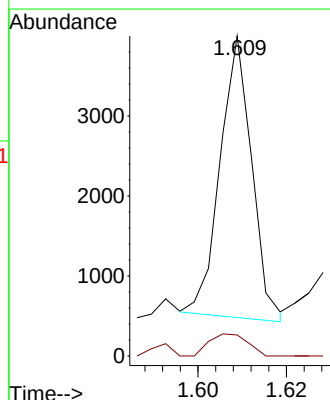
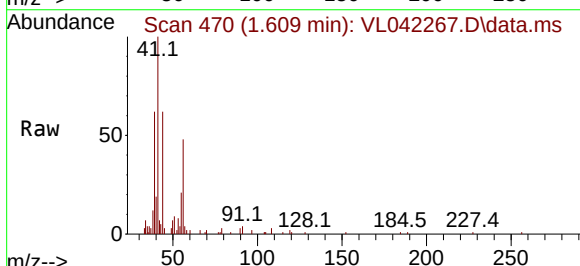
Acq: 08 Apr 2025 16:58

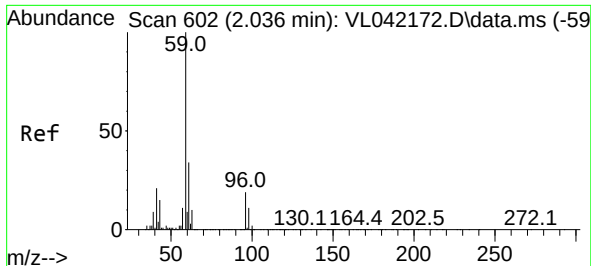
Tgt Ion: 39 Resp: 1737

Ion Ratio Lower Upper

39 100

54 15.4 60.7 91.1#

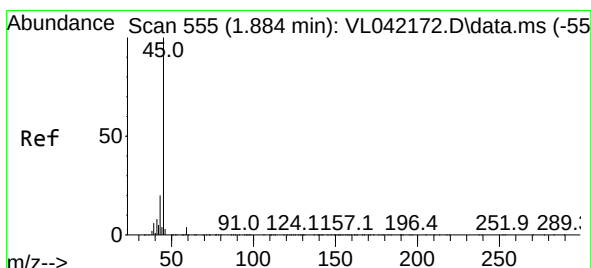
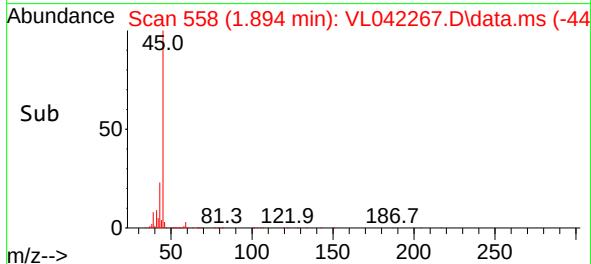
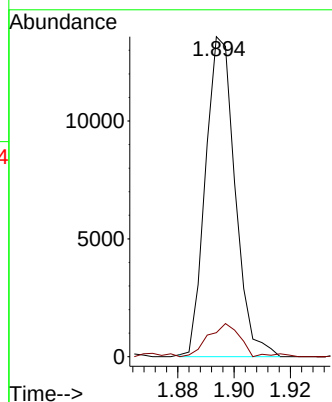
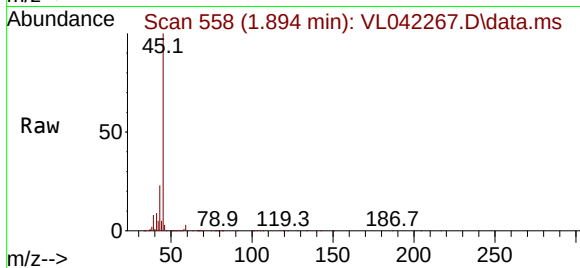




#17
tert-Butyl alcohol
Concen: 0.351 ppbv
RT: 1.894 min Scan# 51
Delta R.T. -0.143 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

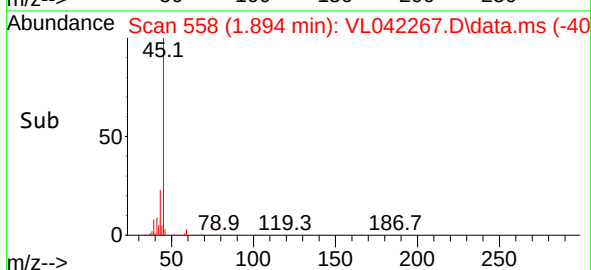
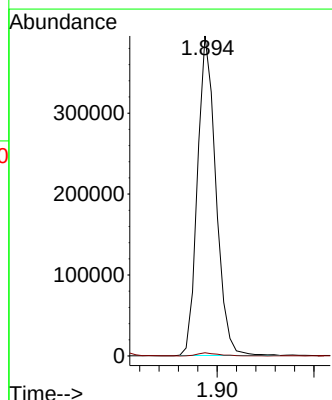
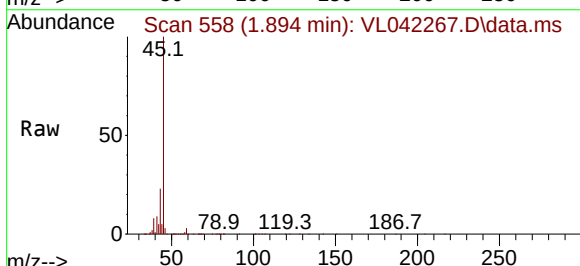
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025DL

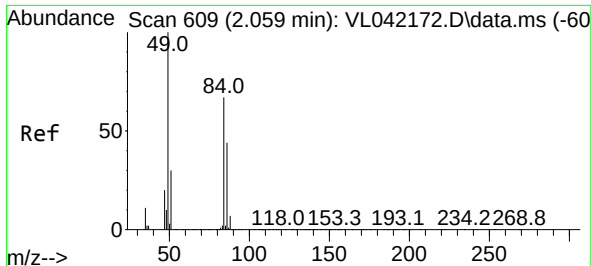
Tgt Ion: 59 Resp: 9905
Ion Ratio Lower Upper
59 100
57 11.7 8.9 13.3



#19
Isopropyl Alcohol
Concen: 20.377 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.010 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

Tgt Ion: 45 Resp: 260805
Ion Ratio Lower Upper
45 100
58 1.2 36.9 55.3#

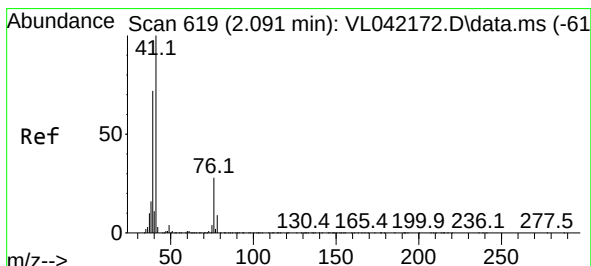
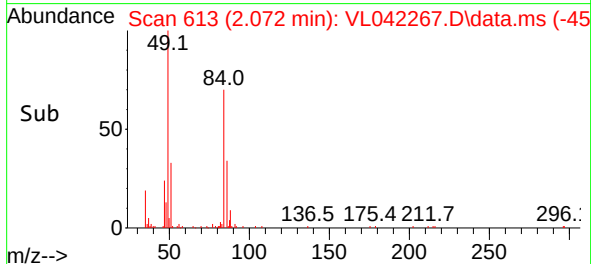
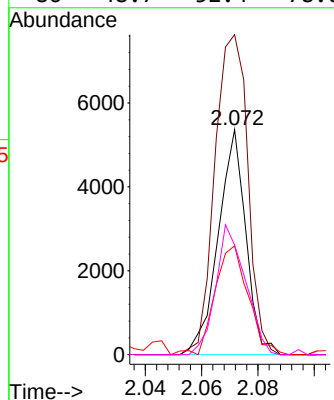
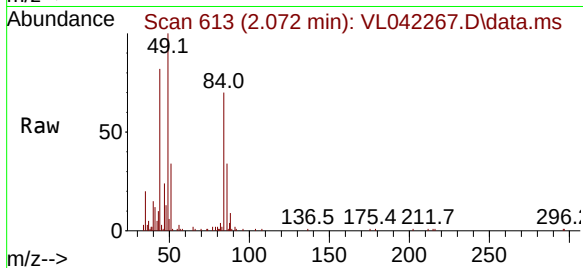




#20
Methylene Chloride
Concen: 0.434 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

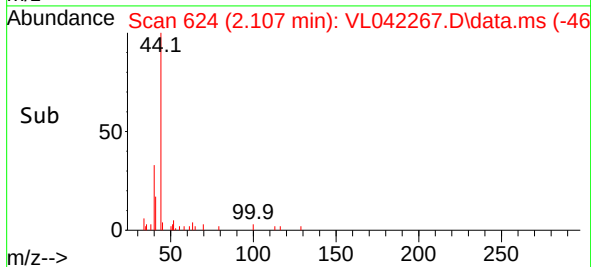
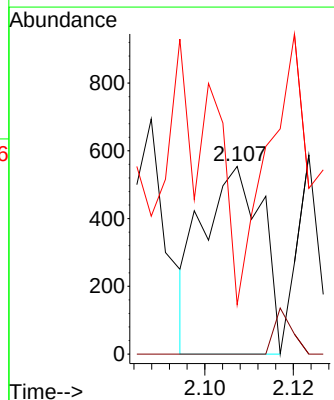
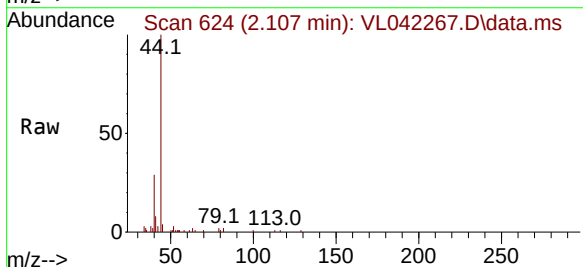
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025DL

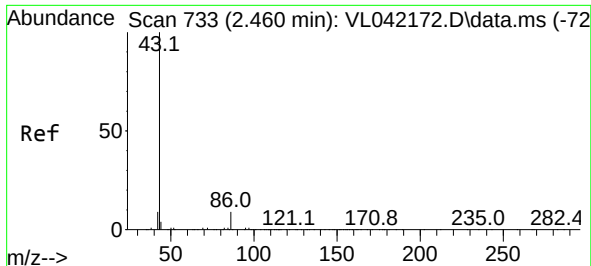
Tgt Ion: 84 Resp: 3668
Ion Ratio Lower Upper
84 100
49 150.8 120.2 180.4
51 47.2 37.4 56.0
86 48.7 52.4 78.6#



#21
Allyl Chloride
Concen: 0.032 ppbv
RT: 2.107 min Scan# 624
Delta R.T. 0.016 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

Tgt Ion: 41 Resp: 519
Ion Ratio Lower Upper
41 100
76 12.1 24.1 36.1#
39 0.0 61.1 91.7#

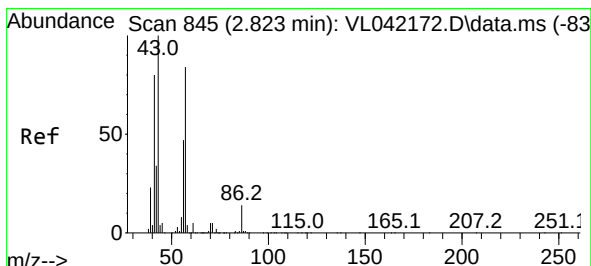
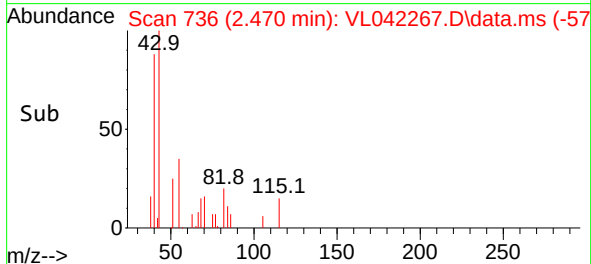
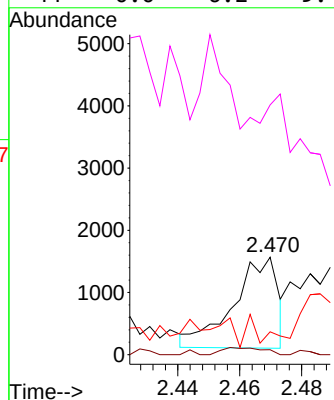
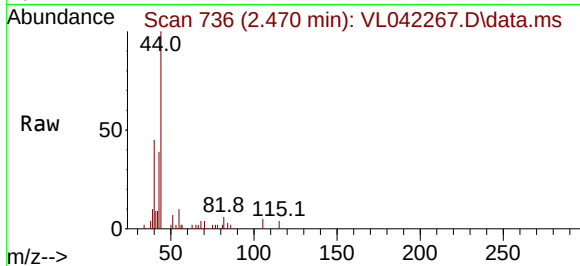




#23
 Vinyl Acetate
 Concen: 0.148 ppbv
 RT: 2.470 min Scan# 71
 Delta R.T. 0.010 min
 Lab File: VL042267.D
 Acq: 08 Apr 2025 16:58

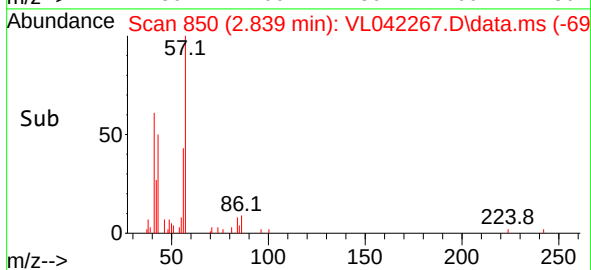
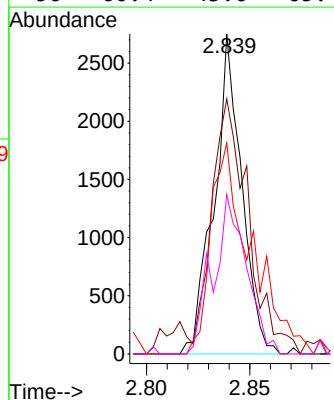
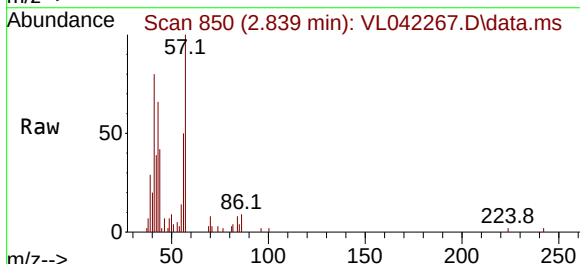
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B14-2-04012025DL

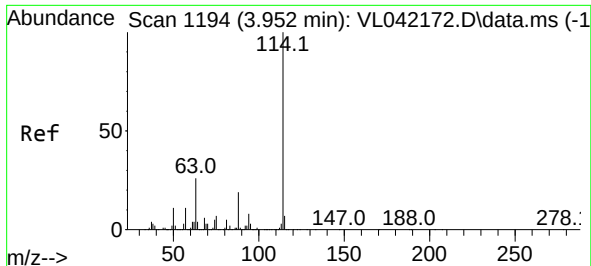
Tgt Ion: 43	Resp: 1449
Ion Ratio	Lower Upper
43 100	
86 6.5	5.5 8.3
42 5.4	8.6 13.0#
44 0.0	6.2 9.4#



#26
 Hexane
 Concen: 0.113 ppbv
 RT: 2.839 min Scan# 850
 Delta R.T. 0.016 min
 Lab File: VL042267.D
 Acq: 08 Apr 2025 16:58

Tgt Ion: 57	Resp: 2560
Ion Ratio	Lower Upper
57 100	
41 116.8	76.6 114.8#
43 97.3	207.8 311.8#
56 60.4	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: VL042267.D

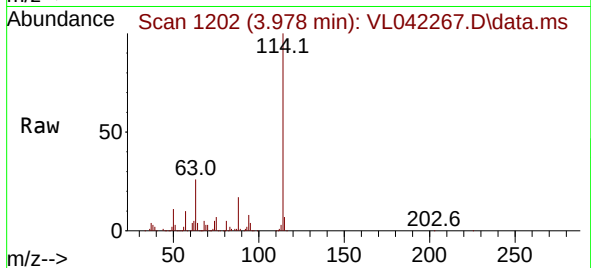
Acq: 08 Apr 2025 16:58

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-2-04012025DL



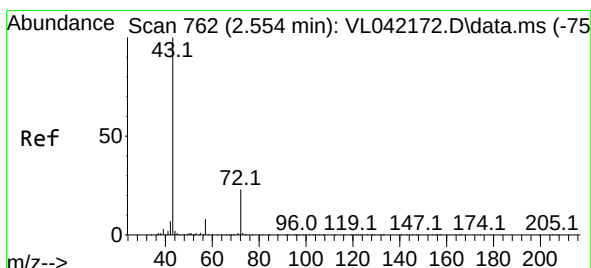
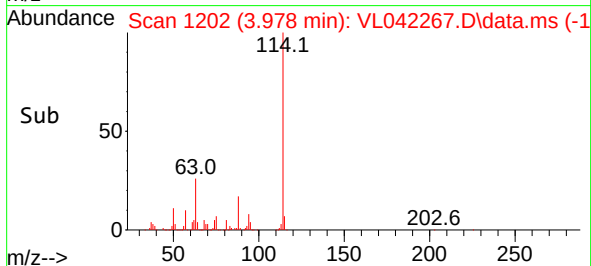
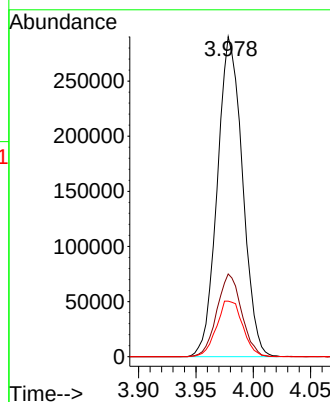
Tgt Ion:114 Resp: 442538

Ion Ratio Lower Upper

114 100

63 25.4 20.7 31.1

88 18.1 15.0 22.4



#34

2-Butanone

Concen: 0.108 ppbv

RT: 2.573 min Scan# 768

Delta R.T. 0.019 min

Lab File: VL042267.D

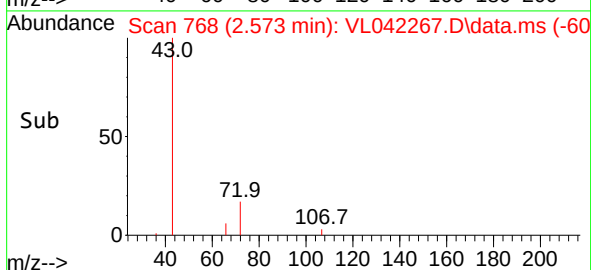
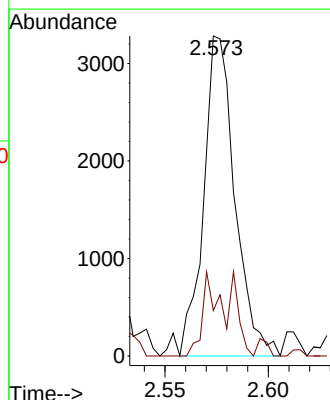
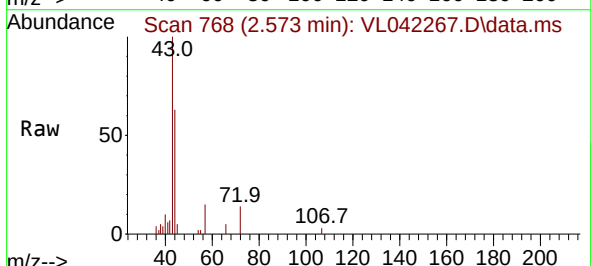
Acq: 08 Apr 2025 16:58

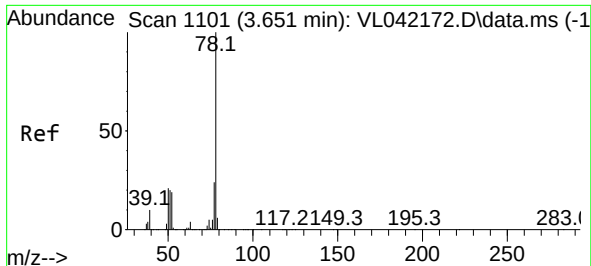
Tgt Ion: 43 Resp: 3451

Ion Ratio Lower Upper

43 100

72 23.2 18.2 27.2

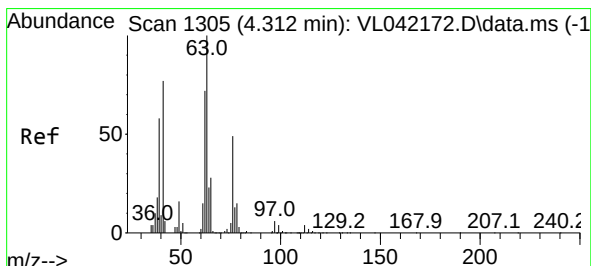
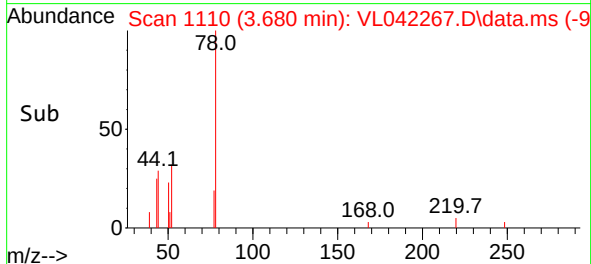
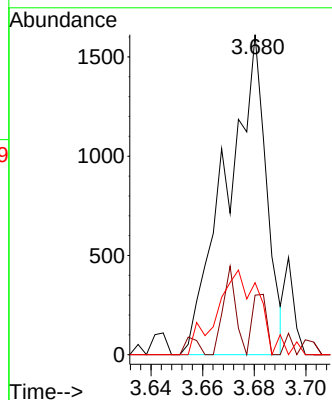
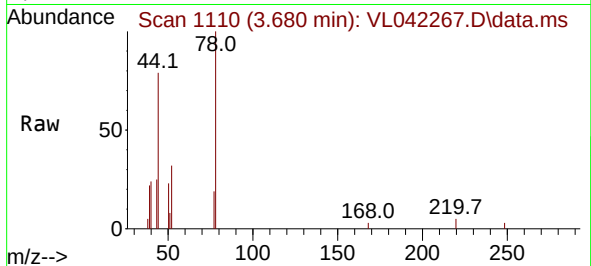




#36
Benzene
Concen: 0.039 ppbv
RT: 3.680 min Scan# 1101
Delta R.T. 0.029 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

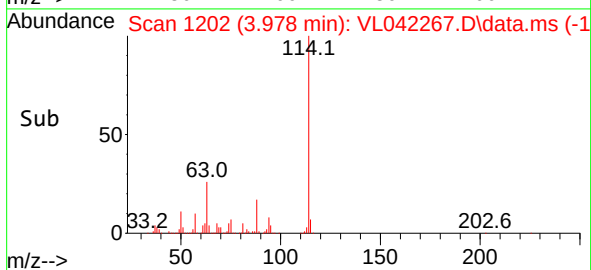
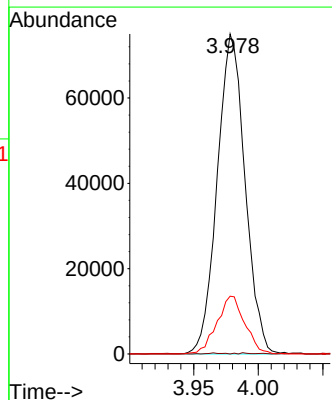
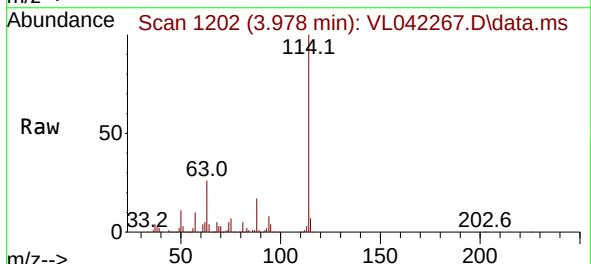
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B14-2-04012025DL

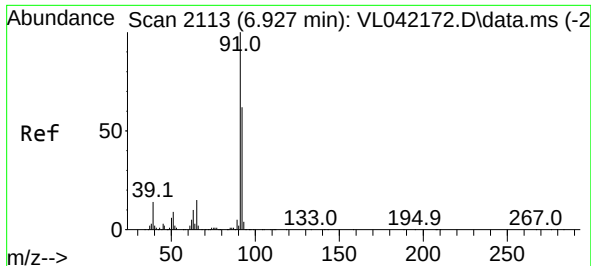
Tgt Ion: 78 Resp: 1725
Ion Ratio Lower Upper
78 100
77 20.0 19.1 28.7
50 24.2 16.6 24.8



#39
1,2-Dichloropropane
Concen: 7.015 ppbv
RT: 3.978 min Scan# 1202
Delta R.T. -0.334 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

Tgt Ion: 63 Resp: 112078
Ion Ratio Lower Upper
63 100
41 0.0 61.7 92.5#
62 18.1 57.6 86.4#

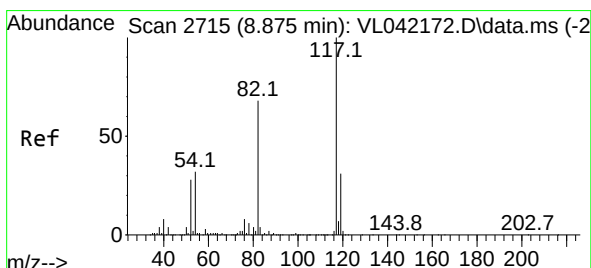
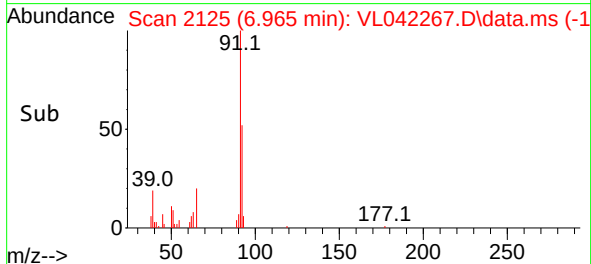
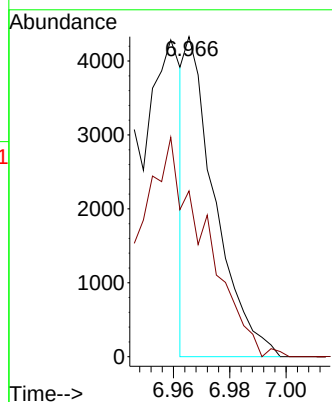
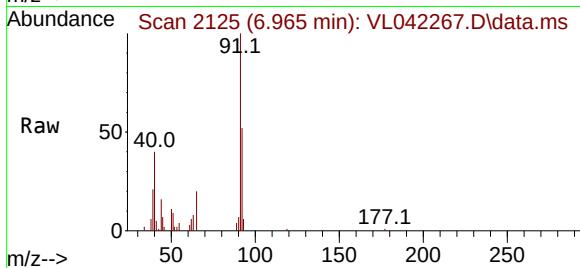




#53
Toluene
Concen: 0.061 ppbv
RT: 6.965 min Scan# 2113
Delta R.T. 0.039 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

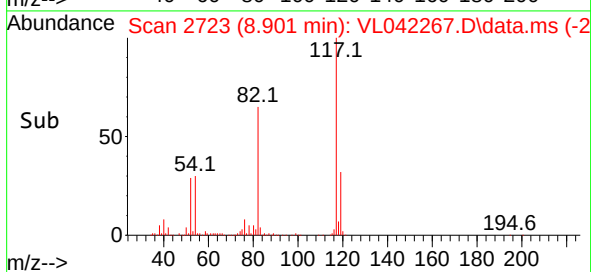
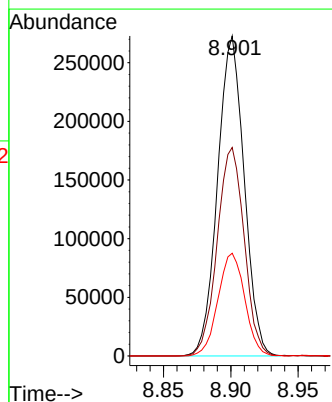
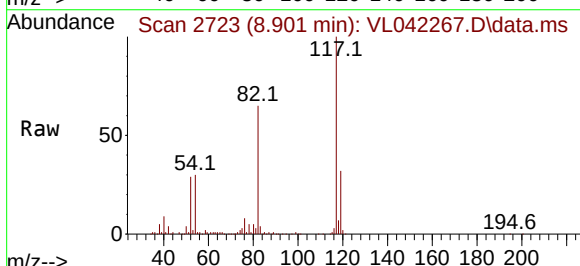
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025DL

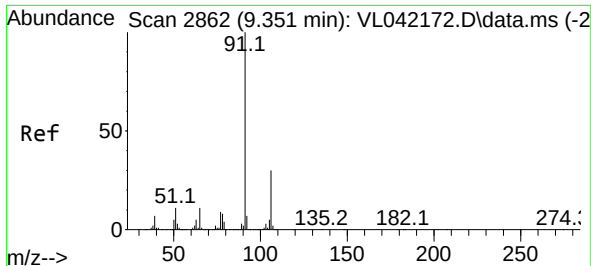
Tgt Ion: 91 Resp: 3183
Ion Ratio Lower Upper
91 100
92 0.0 48.4 72.6#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 2723
Delta R.T. 0.026 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

Tgt Ion: 117 Resp: 374779
Ion Ratio Lower Upper
117 100
82 66.2 55.8 83.6
119 32.3 25.5 38.3





#58

Ethyl Benzene

Concen: 0.094 ppbv

RT: 9.374 min Scan# 2869

Delta R.T. 0.022 min

Lab File: VL042267.D

Acq: 08 Apr 2025 16:58

Instrument :

MSVOA_L

ClientSampleId :

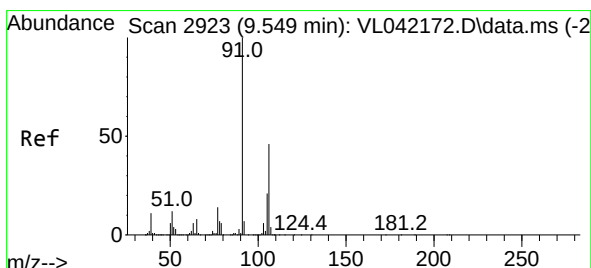
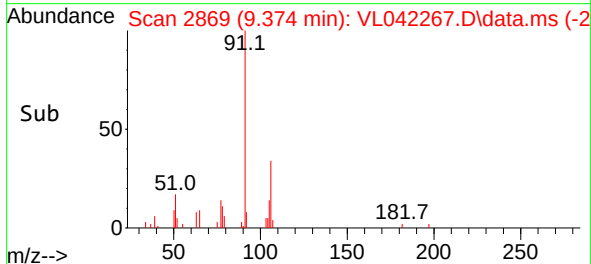
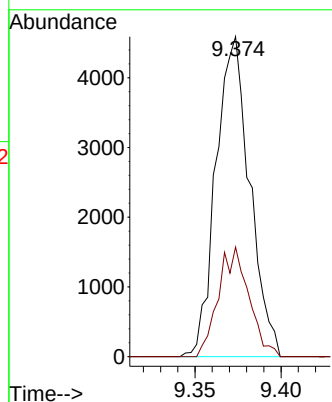
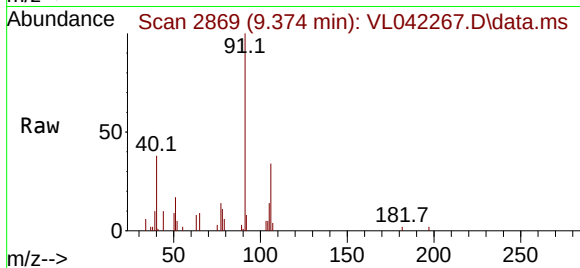
SSSG-B14-2-04012025DL

Tgt Ion: 91 Resp: 6254

Ion Ratio Lower Upper

91 100

106 34.2 24.2 36.2



#59

m/p-Xylene

Concen: 0.303 ppbv

RT: 9.548 min Scan# 2923

Delta R.T. -0.000 min

Lab File: VL042267.D

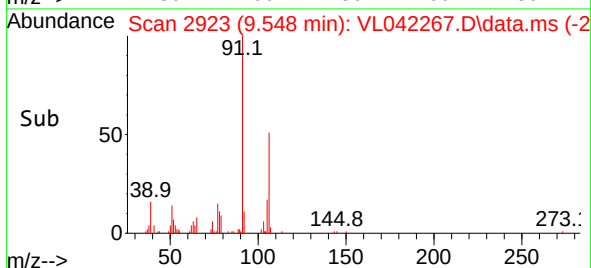
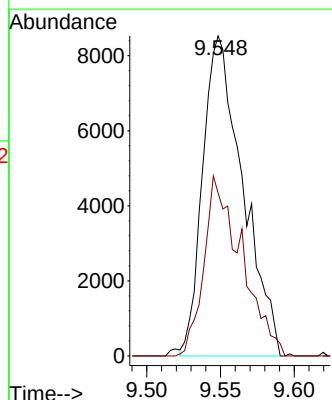
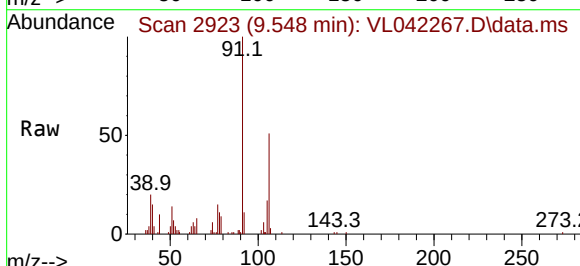
Acq: 08 Apr 2025 16:58

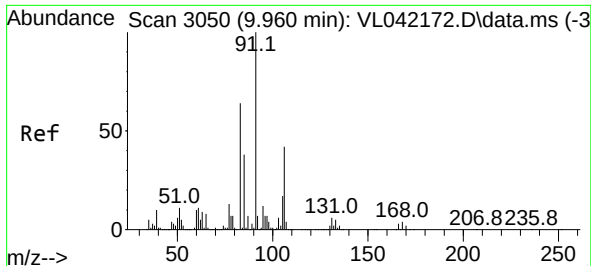
Tgt Ion: 91 Resp: 16114

Ion Ratio Lower Upper

91 100

106 52.6 36.4 54.6

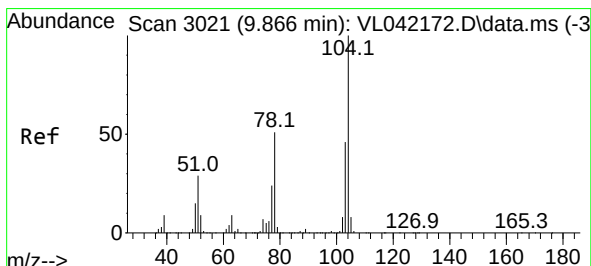
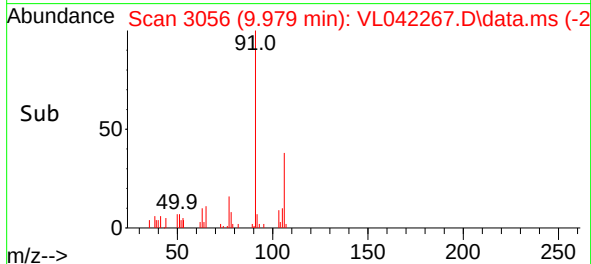
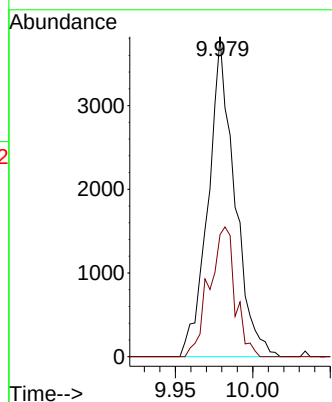
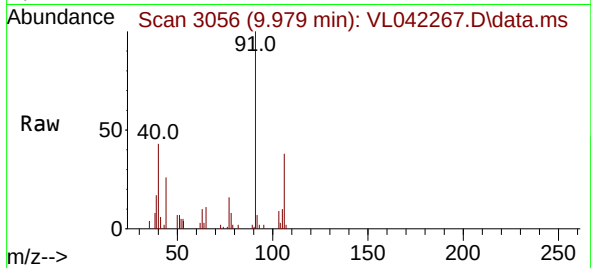




#60
o-Xylene
Concen: 0.085 ppbv
RT: 9.979 min Scan# 3056
Delta R.T. 0.019 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

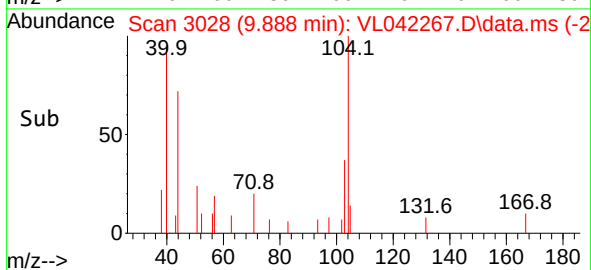
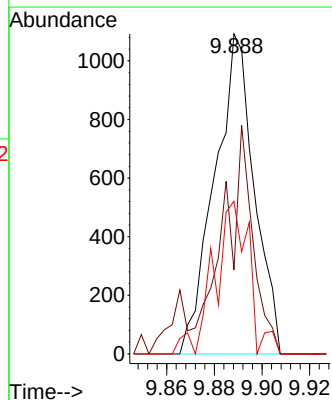
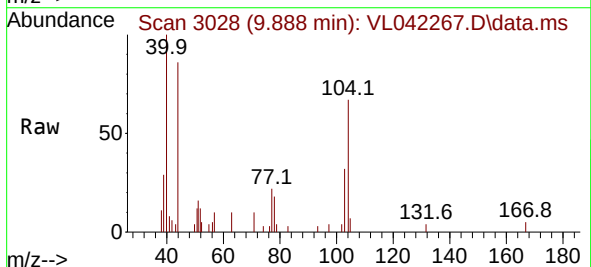
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025DL

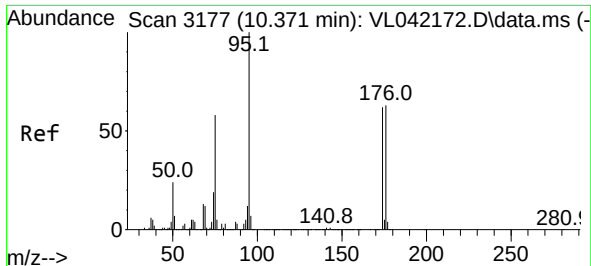
Tgt Ion: 91 Resp: 4532
Ion Ratio Lower Upper
91 100
106 39.6 20.8 62.5



#61
Styrene
Concen: 0.048 ppbv
RT: 9.888 min Scan# 3028
Delta R.T. 0.022 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

Tgt Ion: 104 Resp: 1259
Ion Ratio Lower Upper
104 100
78 62.4 41.8 62.6
103 42.2 37.0 55.4

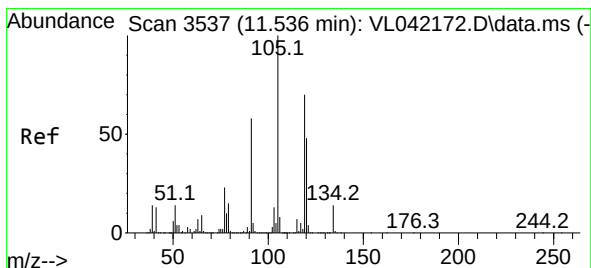
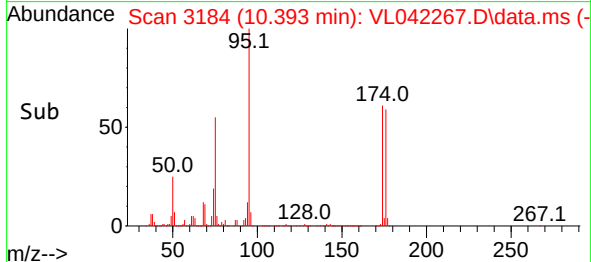
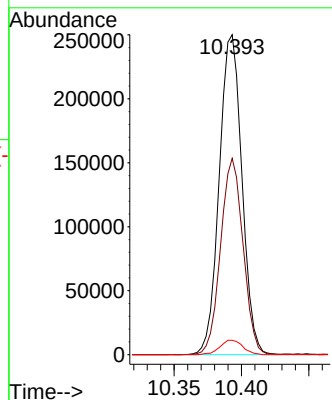
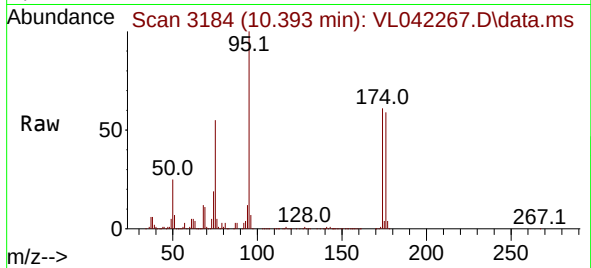




#68
1-Bromo-4-Fluorobenzene
Concen: 9.521 ppbv
RT: 10.393 min Scan# 3177
Delta R.T. 0.022 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

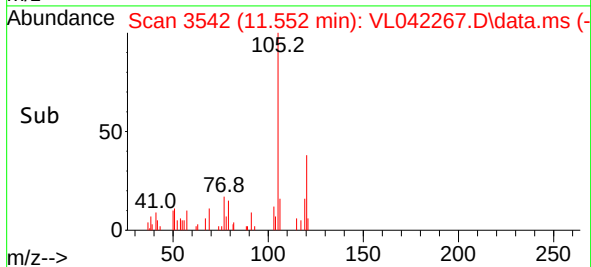
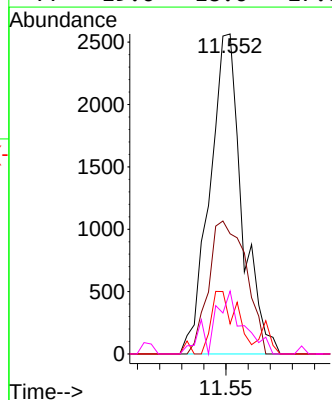
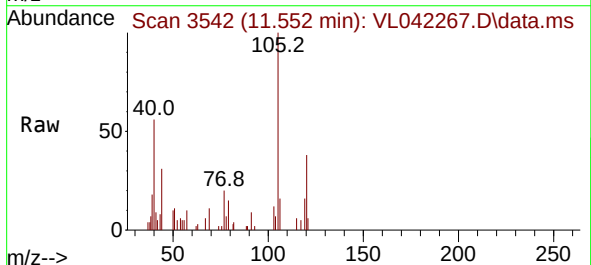
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025DL

Tgt Ion: 95 Resp: 293027
Ion Ratio Lower Upper
95 100
174 60.8 50.6 76.0
175 4.6 3.8 5.6



#74
1,2,4-Trimethylbenzene
Concen: 0.039 ppbv
RT: 11.552 min Scan# 3542
Delta R.T. 0.016 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

Tgt Ion: 105 Resp: 2593
Ion Ratio Lower Upper
105 100
120 43.7 38.6 58.0
91 9.4 46.2 69.2#
77 19.6 18.6 27.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042272.D
 Acq On : 08 Apr 2025 20:30
 Operator : SY/MD
 Sample : Q1728-07 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-1-04012025

Quant Time: Apr 09 02:00:04 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

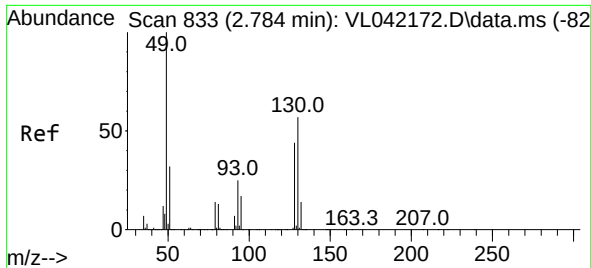
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.800	49	160928	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.975	114	398547	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.894	117	347731	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	274979	9.629	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	2800	0.118	ppbv	89
4) Chloromethane	1.538	50	461	0.047	ppbv #	57
7) Chloroethane	1.496	64	438	0.112	ppbv #	56
9) Propene	1.625	41	1272	0.114	ppbv	91
13) Ethanol	1.440	45	174932	166.324	ppbv #	1
15) Acetone	1.842	43	20683	0.919	ppbv	94
16) 1,3-Butadiene	1.628	39	955	0.087	ppbv #	53
19) Isopropyl Alcohol	1.440	45	174932	13.776	ppbv #	31
20) Methylene Chloride	2.068	84	3032	0.362	ppbv #	87
23) Vinyl Acetate	2.463	43	616	0.063	ppbv #	83
25) Ethyl Acetate	2.839	43	2710	0.046	ppbv #	85
26) Hexane	2.835	57	3283	0.146	ppbv #	41
27) Carbon Disulfide	2.159	76	891	0.037	ppbv #	54
29) Chloroform	2.861	83	9086	0.275	ppbv #	84
34) 2-Butanone	2.573	43	2533	0.088	ppbv	95
36) Benzene	3.667	78	1450	0.037	ppbv #	90
39) 1,2-Dichloropropane	3.975	63	103344	7.182	ppbv #	23
53) Toluene	6.956	91	36094	0.771	ppbv	100
57) Chlorobenzene	8.937	112	1425	0.043	ppbv #	57
59) m/p-Xylene	9.542	91	13334	0.270	ppbv	96
60) o-Xylene	9.542	91	13334	0.270	ppbv	90
74) 1,2,4-Trimethylbenzene	11.545	105	4136	0.067	ppbv #	69

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

Quant Time: Apr 09 02:00:04 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

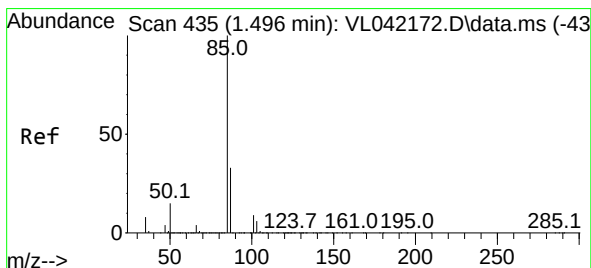
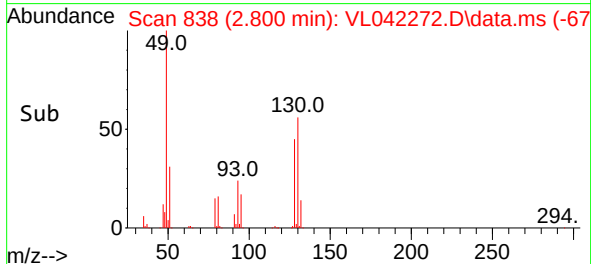
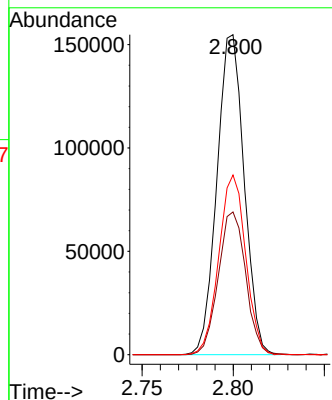
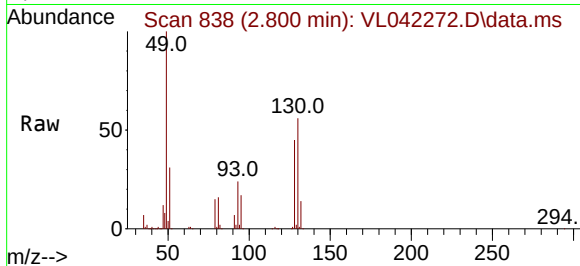




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

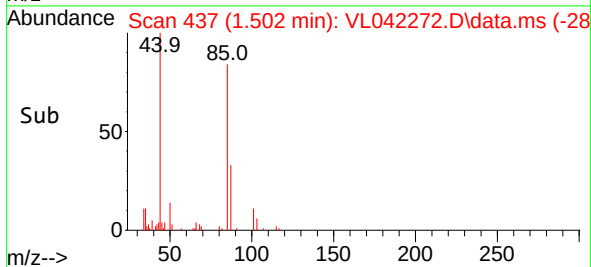
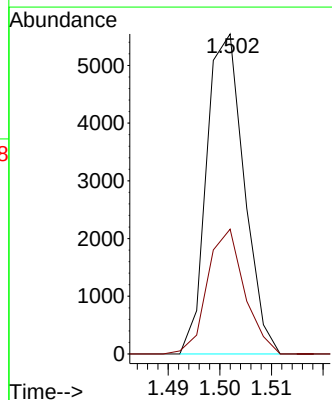
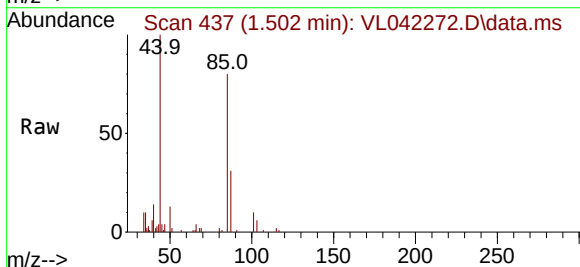
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-1-04012025

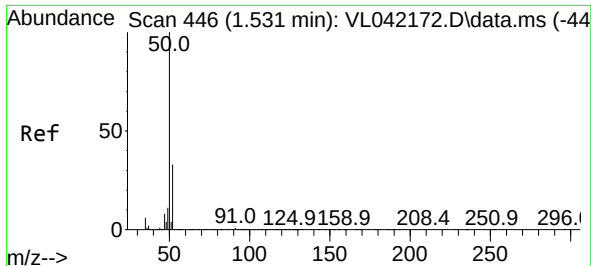
Tgt Ion: 49 Resp: 160928
Ion Ratio Lower Upper
49 100
128 44.8 22.9 68.5
130 55.4 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.118 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

Tgt Ion: 85 Resp: 2800
Ion Ratio Lower Upper
85 100
87 39.0 26.1 39.1

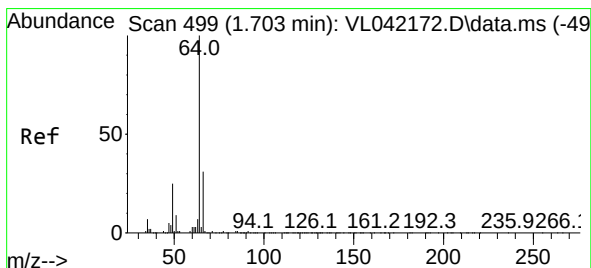
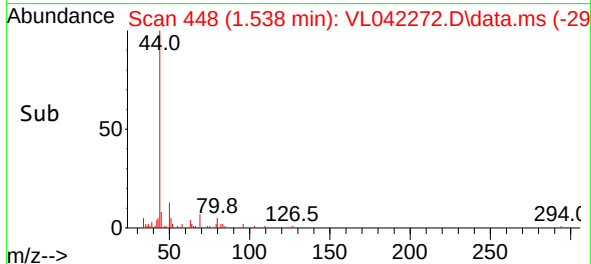
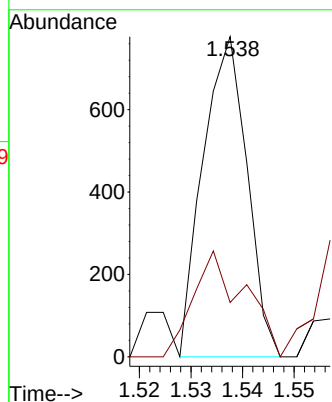
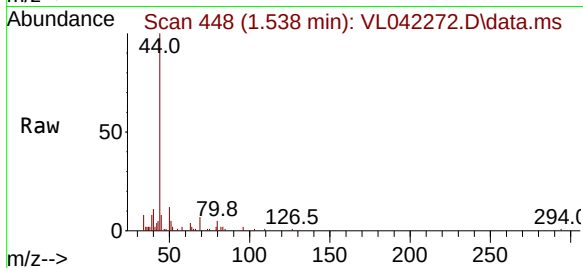




#4
Chloromethane
Concen: 0.047 ppbv
RT: 1.538 min Scan# 446
Delta R.T. 0.006 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

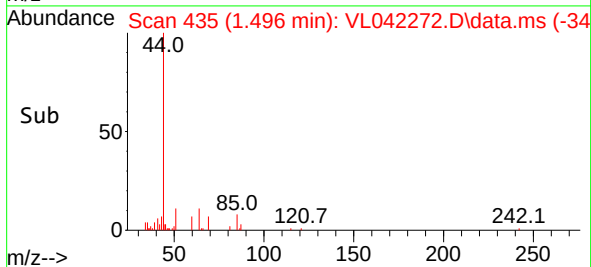
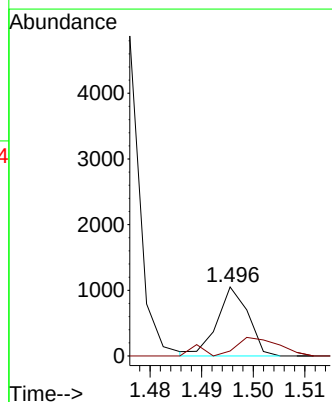
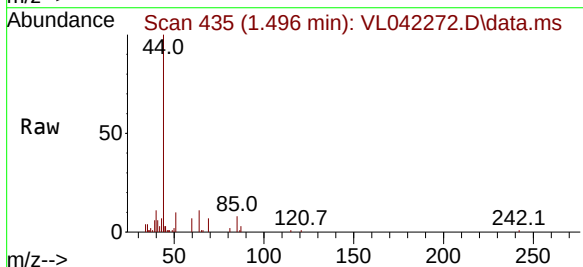
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-1-04012025

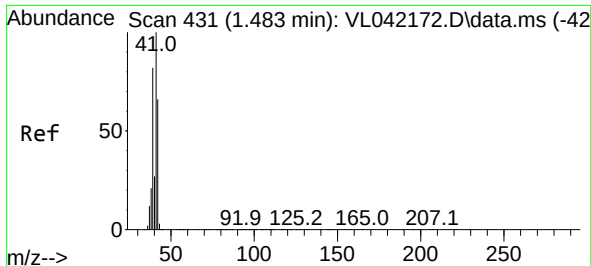
Tgt Ion: 50 Resp: 461
Ion Ratio Lower Upper
50 100
52 8.6 26.1 39.1#



#7
Chloroethane
Concen: 0.112 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.207 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

Tgt Ion: 64 Resp: 438
Ion Ratio Lower Upper
64 100
66 7.1 25.2 37.8#





#9

Propene

Concen: 0.114 ppbv

RT: 1.625 min Scan# 41

Delta R.T. 0.142 min

Lab File: VL042272.D

Acq: 08 Apr 2025 20:30

Instrument :

MSVOA_L

ClientSampleId :

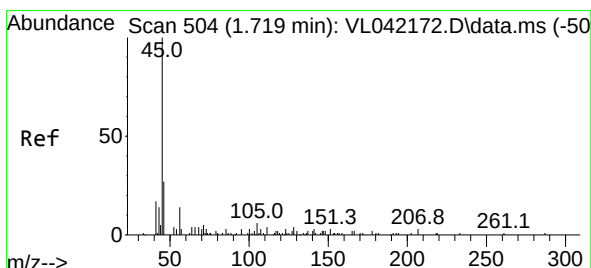
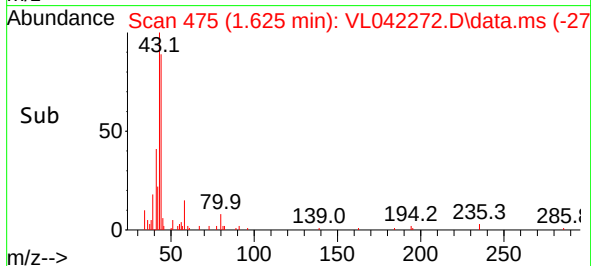
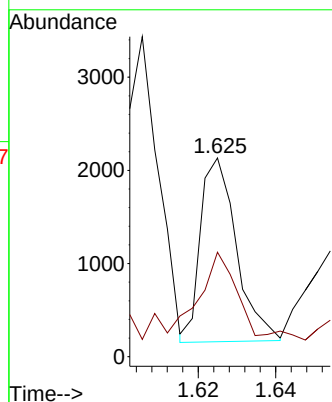
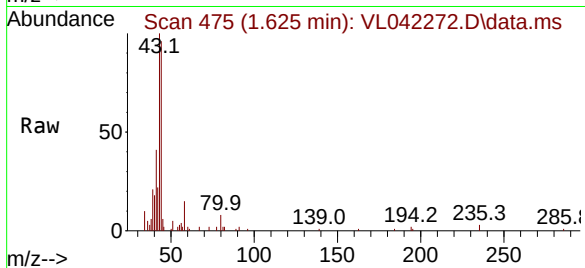
SSSG-B1-1-04012025

Tgt Ion: 41 Resp: 1272

Ion Ratio Lower Upper

41 100

42 62.3 55.4 83.2



#13

Ethanol

Concen: 166.324 ppbv

RT: 1.440 min Scan# 418

Delta R.T. -0.279 min

Lab File: VL042272.D

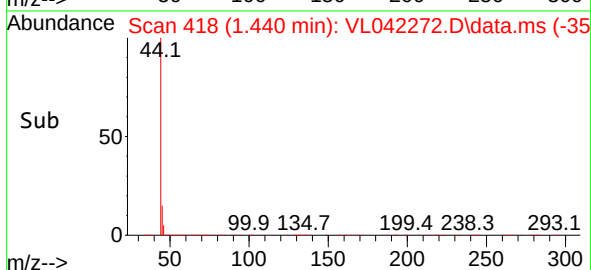
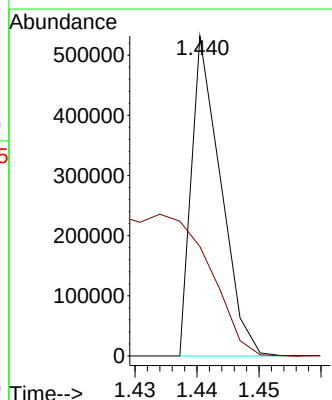
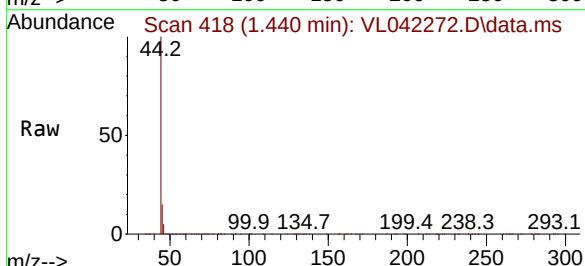
Acq: 08 Apr 2025 20:30

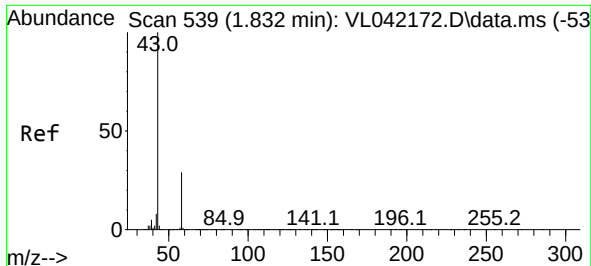
Tgt Ion: 45 Resp: 174932

Ion Ratio Lower Upper

45 100

46 142.9 20.2 80.8#





#15

Acetone

Concen: 0.919 ppbv

RT: 1.842 min Scan# 54

Delta R.T. 0.009 min

Lab File: VL042272.D

Acq: 08 Apr 2025 20:30

Instrument :

MSVOA_L

ClientSampleId :

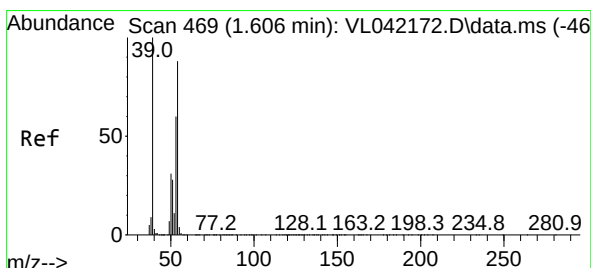
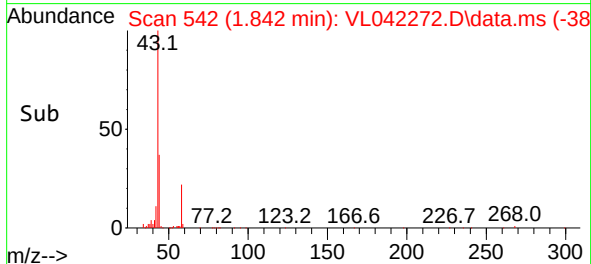
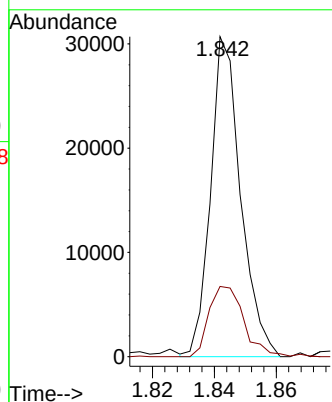
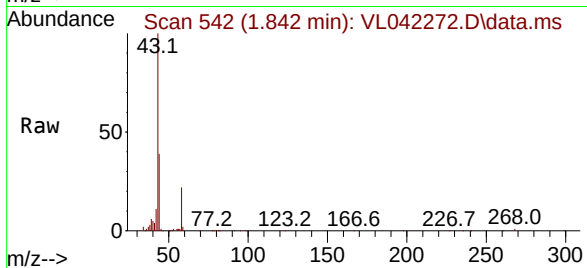
SSSG-B1-1-04012025

Tgt Ion: 43 Resp: 20683

Ion Ratio Lower Upper

43 100

58 25.8 23.2 34.8



#16

1,3-Butadiene

Concen: 0.087 ppbv

RT: 1.628 min Scan# 476

Delta R.T. 0.022 min

Lab File: VL042272.D

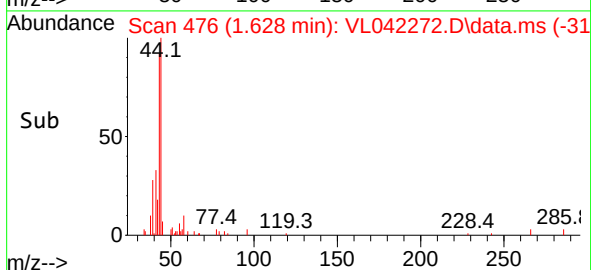
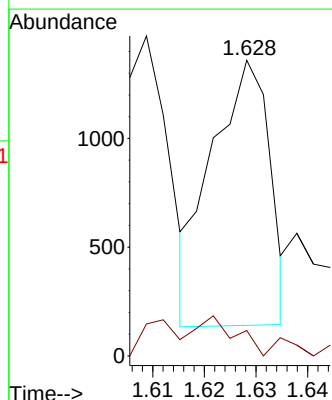
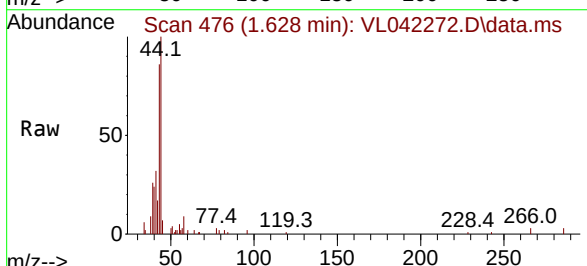
Acq: 08 Apr 2025 20:30

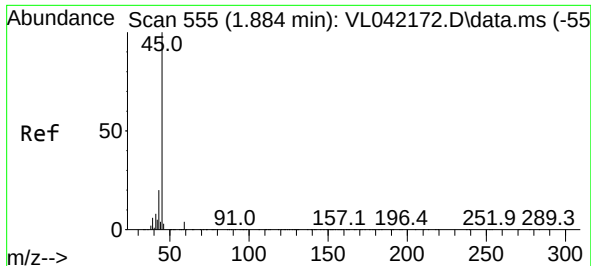
Tgt Ion: 39 Resp: 955

Ion Ratio Lower Upper

39 100

54 35.9 60.7 91.1#





#19

Isopropyl Alcohol

Concen: 13.776 ppbv

RT: 1.440 min Scan# 41

Delta R.T. -0.444 min

Lab File: VL042272.D

Acq: 08 Apr 2025 20:30

Instrument :

MSVOA_L

ClientSampleId :

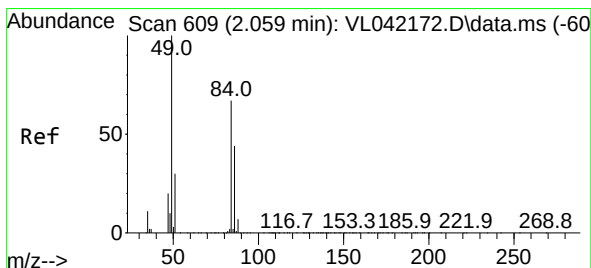
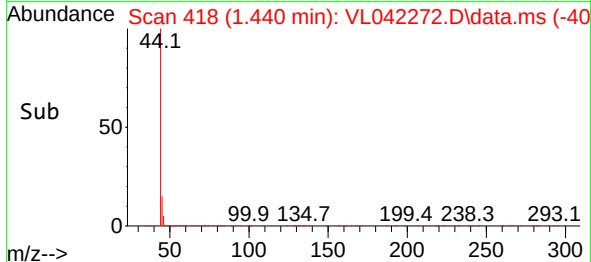
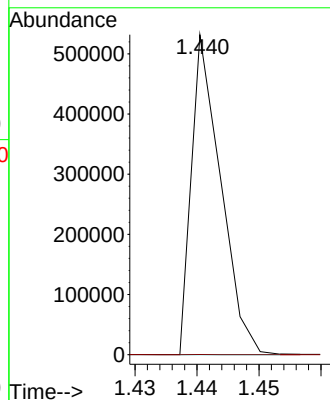
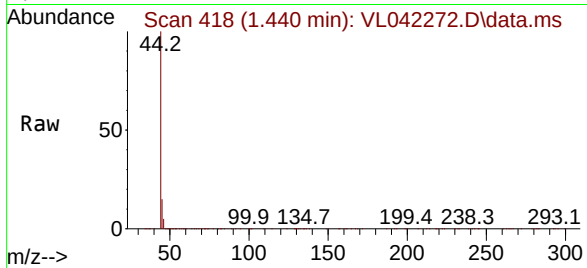
SSSG-B1-1-04012025

Tgt Ion: 45 Resp: 174932

Ion Ratio Lower Upper

45 100

58 0.1 36.9 55.3#



#20

Methylene Chloride

Concen: 0.362 ppbv

RT: 2.068 min Scan# 612

Delta R.T. 0.009 min

Lab File: VL042272.D

Acq: 08 Apr 2025 20:30

Tgt Ion: 84 Resp: 3032

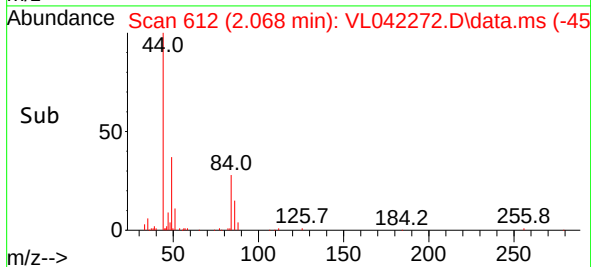
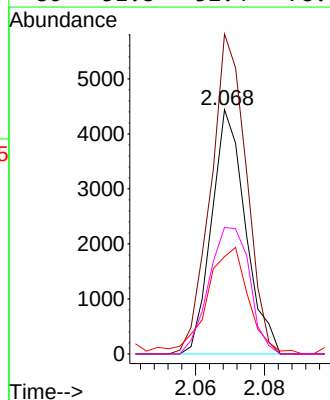
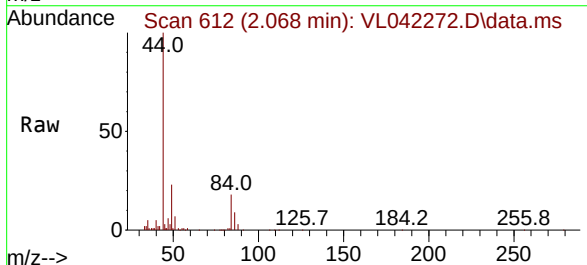
Ion Ratio Lower Upper

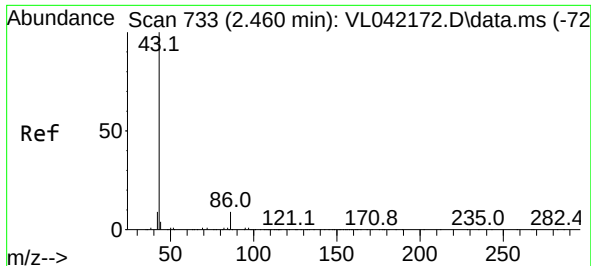
84 100

49 135.2 120.2 180.4

51 38.6 37.4 56.0

86 51.8 52.4 78.6#

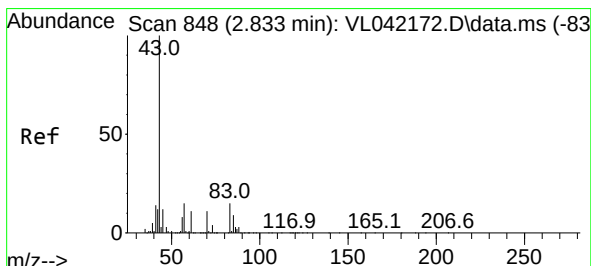
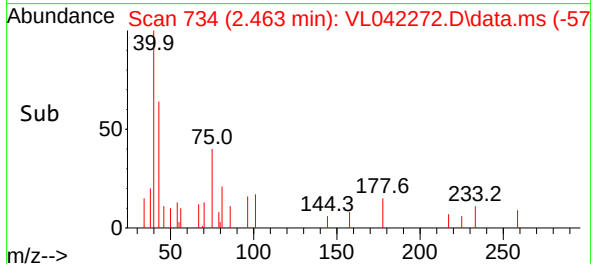
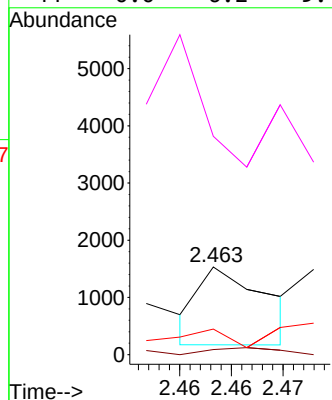
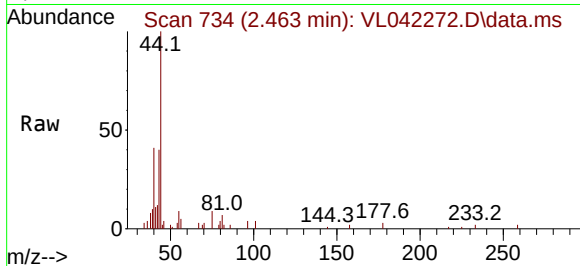




#23
Vinyl Acetate
Concen: 0.063 ppbv
RT: 2.463 min Scan# 71
Delta R.T. 0.003 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

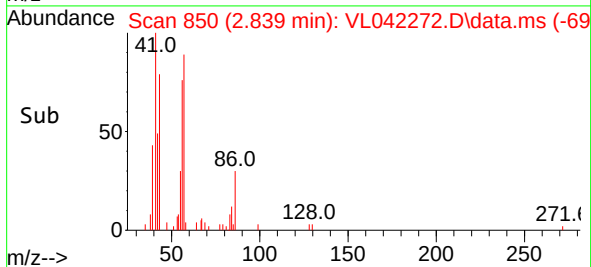
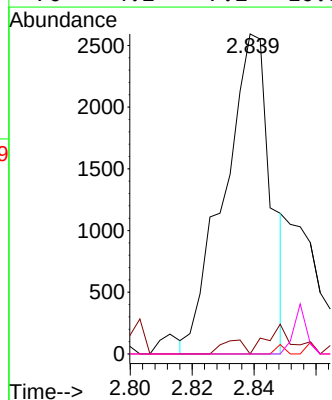
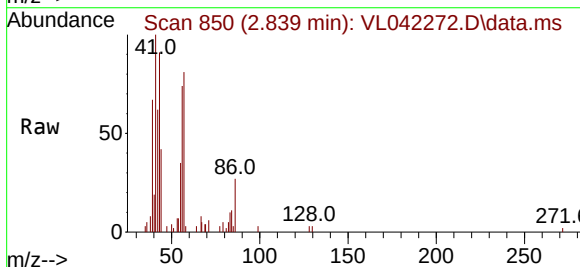
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-1-04012025

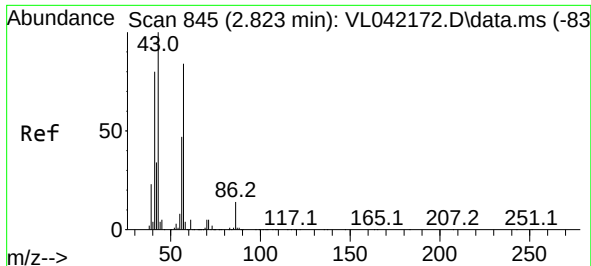
Tgt Ion:	43	Resp:	616
Ion	Ratio	Lower	Upper
43	100		
86	10.8	5.5	8.3#
42	16.8	8.6	13.0#
44	0.0	6.2	9.4#



#25
Ethyl Acetate
Concen: 0.046 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.006 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

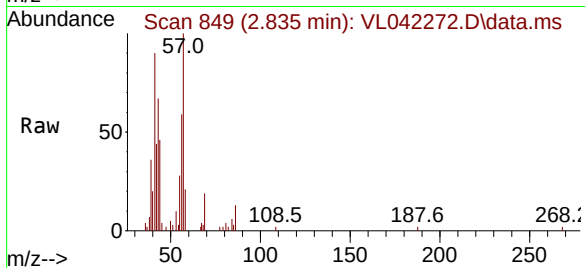
Tgt Ion:	43	Resp:	2710
Ion	Ratio	Lower	Upper
43	100		
45	7.3	8.2	12.2#
61	0.0	7.3	10.9#
70	4.2	7.2	10.8#



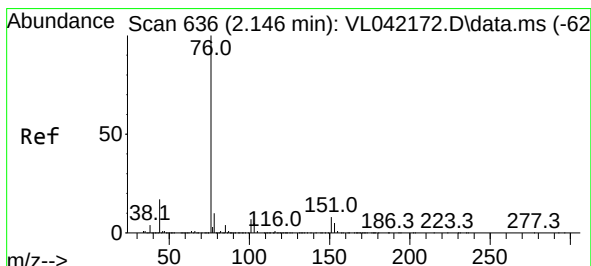
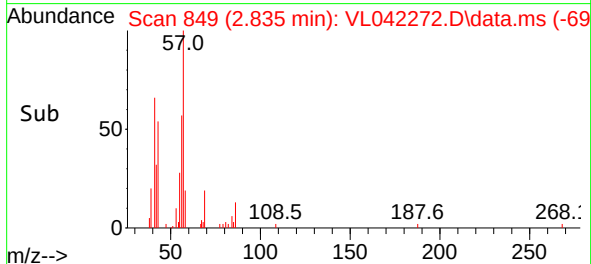
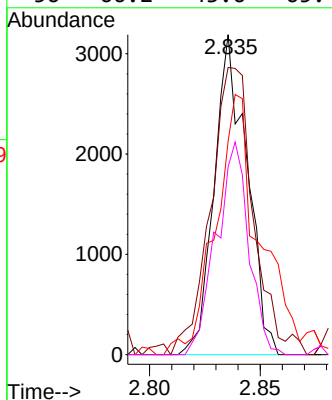


#26
Hexane
Concen: 0.146 ppbv
RT: 2.835 min Scan# 84
Delta R.T. 0.013 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-1-04012025

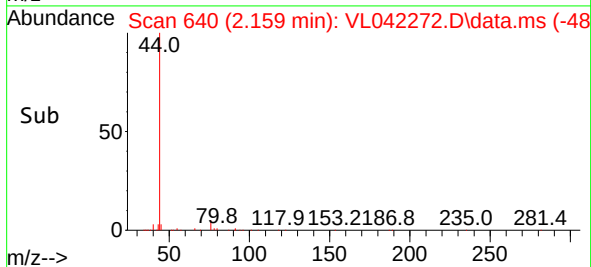
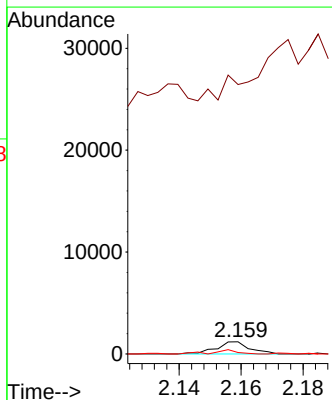
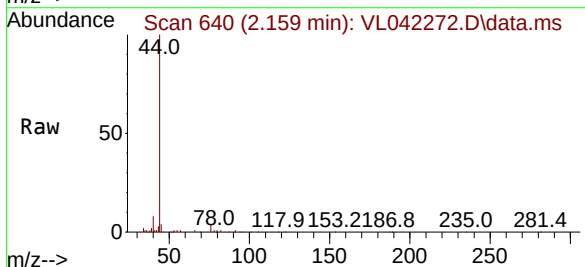


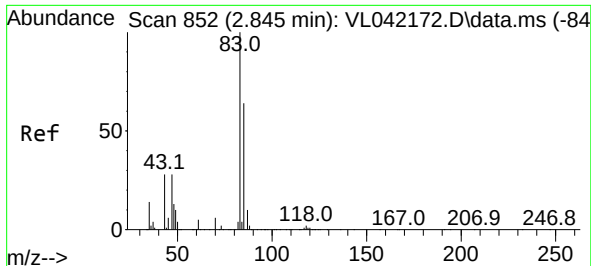
Tgt Ion: 57 Resp: 3283
Ion Ratio Lower Upper
57 100
41 120.7 76.6 114.8#
43 115.5 207.8 311.8#
56 66.2 43.6 65.4#



#27
Carbon Disulfide
Concen: 0.037 ppbv
RT: 2.159 min Scan# 640
Delta R.T. 0.013 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

Tgt Ion: 76 Resp: 891
Ion Ratio Lower Upper
76 100
44 0.0 14.7 22.1#
78 31.9 9.3 13.9#





#29

Chloroform

Concen: 0.275 ppbv

RT: 2.861 min Scan# 81

Delta R.T. 0.016 min

Lab File: VL042272.D

Acq: 08 Apr 2025 20:30

Instrument :

MSVOA_L

ClientSampleId :

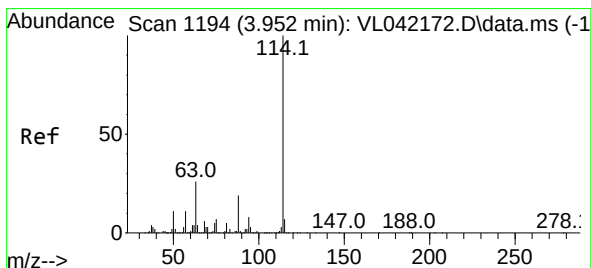
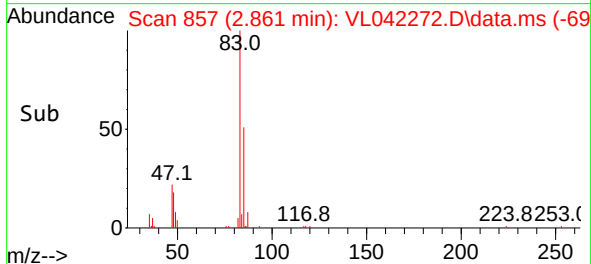
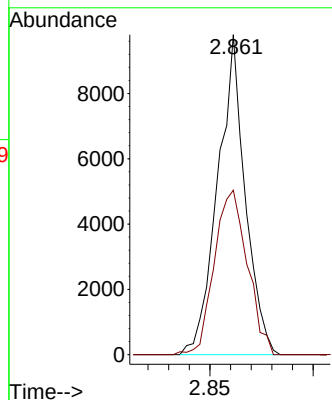
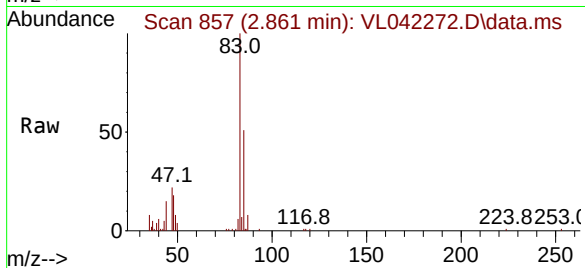
SSSG-B1-1-04012025

Tgt Ion: 83 Resp: 9086

Ion Ratio Lower Upper

83 100

85 51.4 51.4 77.2#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.975 min Scan# 1201

Delta R.T. 0.022 min

Lab File: VL042272.D

Acq: 08 Apr 2025 20:30

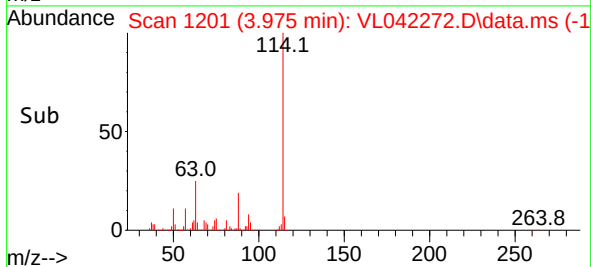
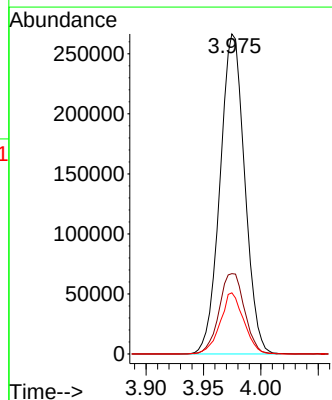
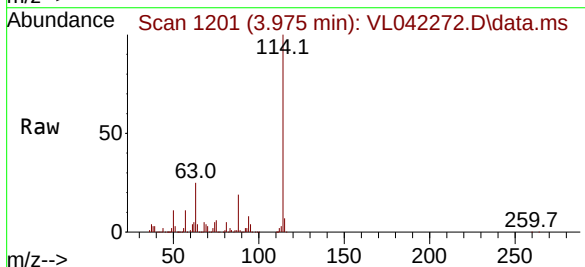
Tgt Ion: 114 Resp: 398547

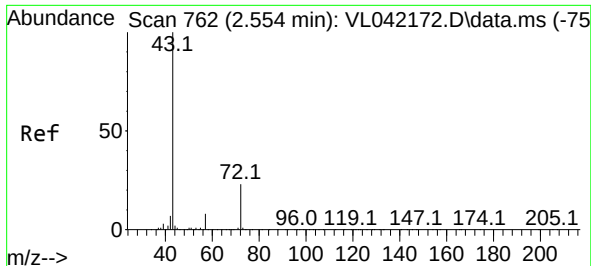
Ion Ratio Lower Upper

114 100

63 26.0 20.7 31.1

88 18.3 15.0 22.4

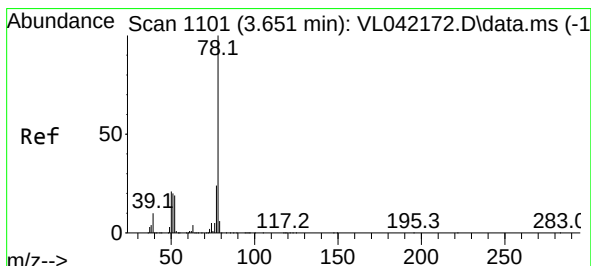
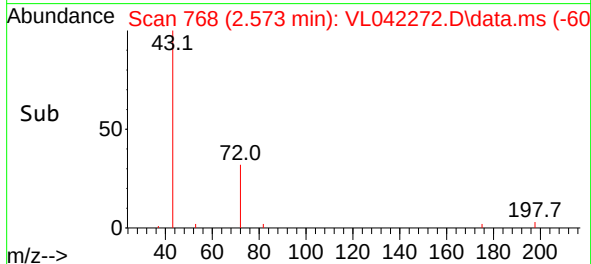
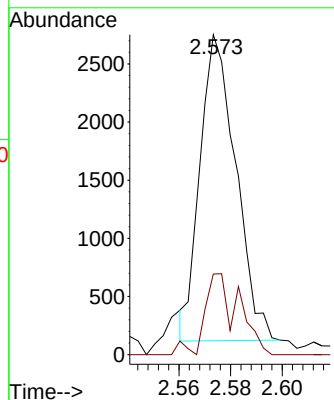
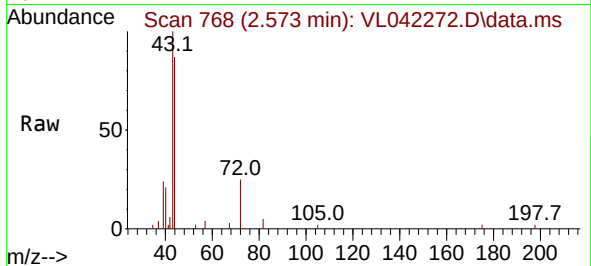




#34
2-Butanone
Concen: 0.088 ppbv
RT: 2.573 min Scan# 71
Delta R.T. 0.019 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

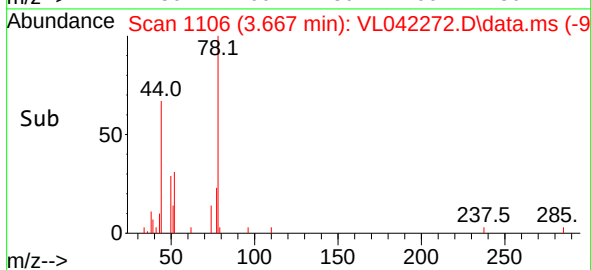
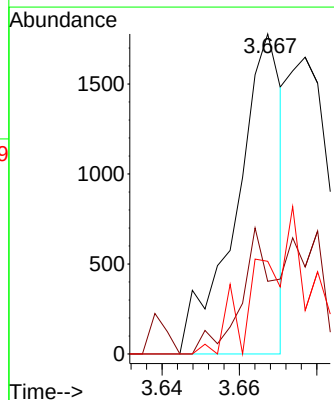
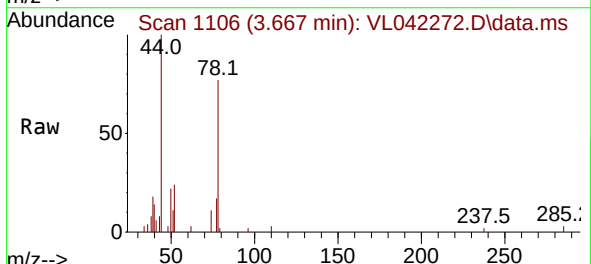
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-1-04012025

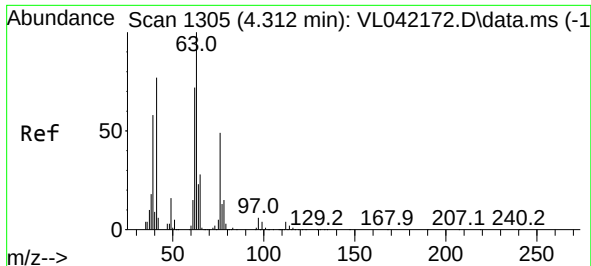
Tgt Ion: 43 Resp: 2533
Ion Ratio Lower Upper
43 100
72 25.1 18.2 27.2



#36
Benzene
Concen: 0.037 ppbv
RT: 3.667 min Scan# 1106
Delta R.T. 0.016 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

Tgt Ion: 78 Resp: 1450
Ion Ratio Lower Upper
78 100
77 22.7 19.1 28.7
50 29.0 16.6 24.8#





#39

1,2-Dichloropropane

Concen: 7.182 ppbv

RT: 3.975 min Scan# 11

Delta R.T. -0.337 min

Lab File: VL042272.D

Acq: 08 Apr 2025 20:30

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B1-1-04012025

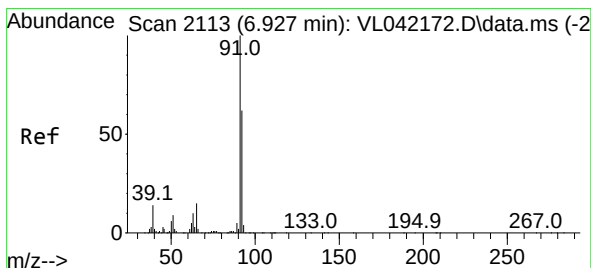
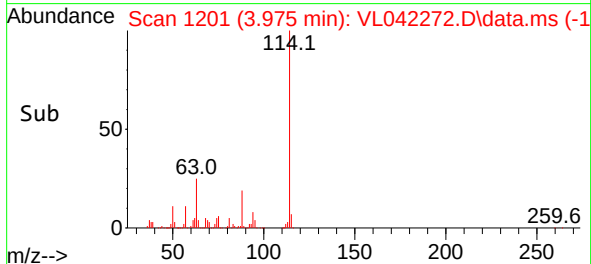
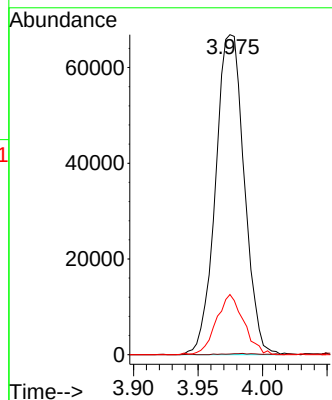
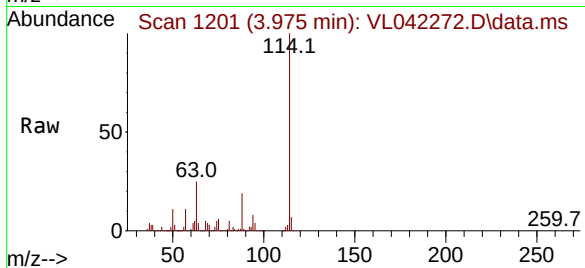
Tgt Ion: 63 Resp: 103344

Ion Ratio Lower Upper

63 100

41 0.6 61.7 92.5#

62 18.7 57.6 86.4#



#53

Toluene

Concen: 0.771 ppbv

RT: 6.956 min Scan# 2122

Delta R.T. 0.029 min

Lab File: VL042272.D

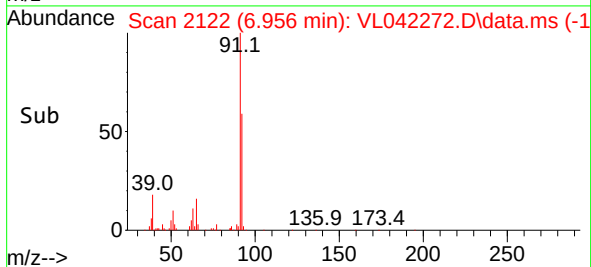
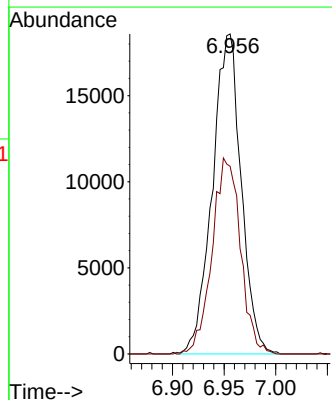
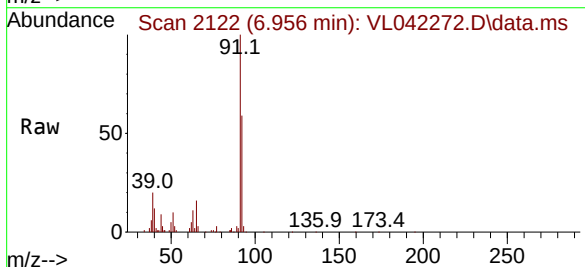
Acq: 08 Apr 2025 20:30

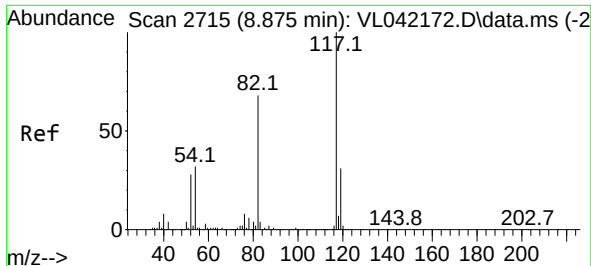
Tgt Ion: 91 Resp: 36094

Ion Ratio Lower Upper

91 100

92 60.2 48.4 72.6

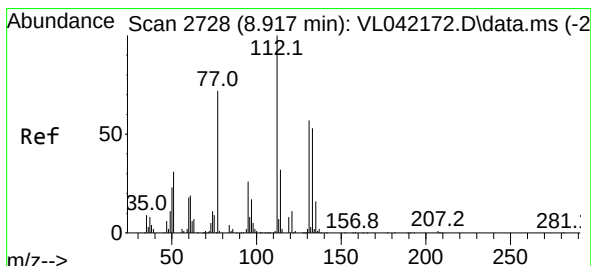
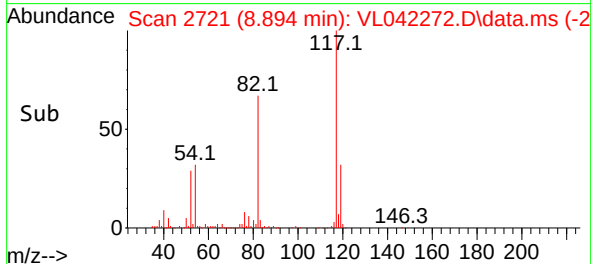
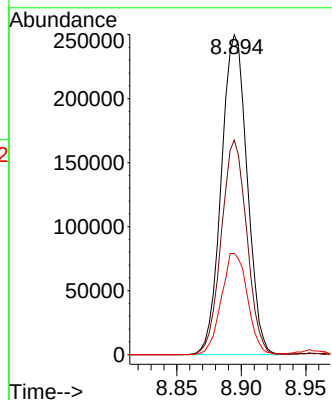
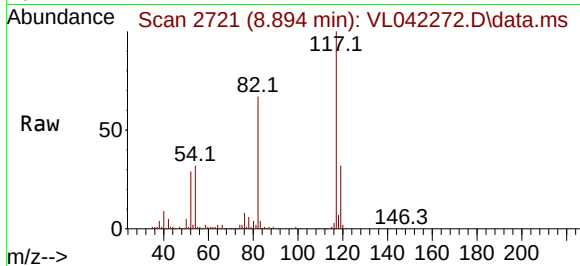




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.894 min Scan# 2715
Delta R.T. 0.019 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

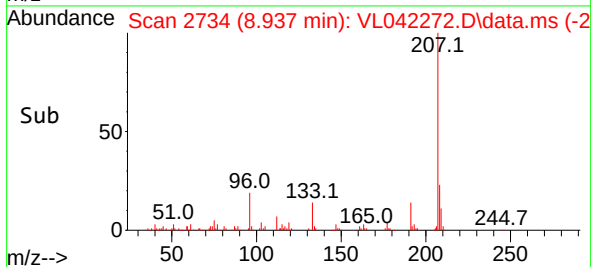
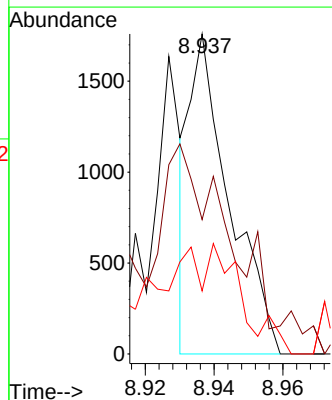
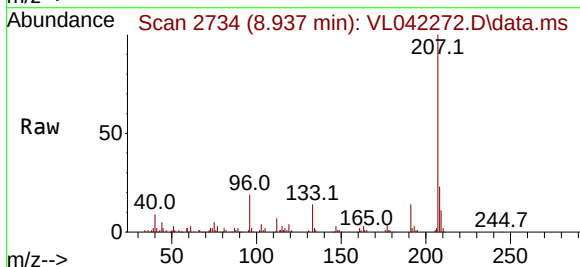
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B1-1-04012025

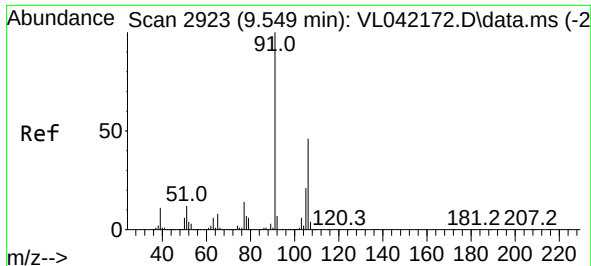
Tgt Ion:	117	Resp:	347731
Ion	Ratio	Lower	Upper
117	100		
82	66.2	55.8	83.6
119	32.2	25.5	38.3



#57
Chlorobenzene
Concen: 0.043 ppbv
RT: 8.937 min Scan# 2734
Delta R.T. 0.019 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

Tgt Ion:	112	Resp:	1425
Ion	Ratio	Lower	Upper
112	100		
77	33.2	58.2	87.2#
114	13.6	29.1	35.5#





#59

m/p-Xylene

Concen: 0.270 ppbv

RT: 9.542 min Scan# 2921

Delta R.T. -0.007 min

Lab File: VL042272.D

Acq: 08 Apr 2025 20:30

Instrument :

MSVOA_L

ClientSampleId :

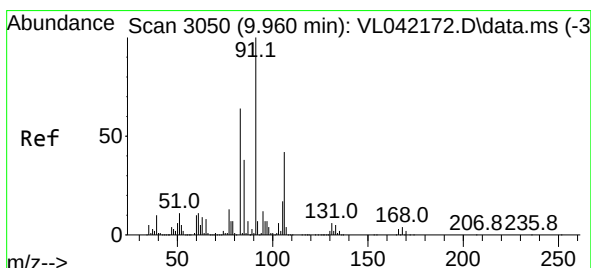
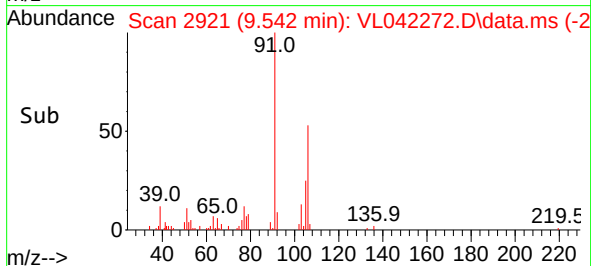
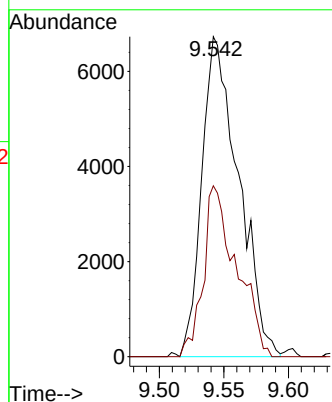
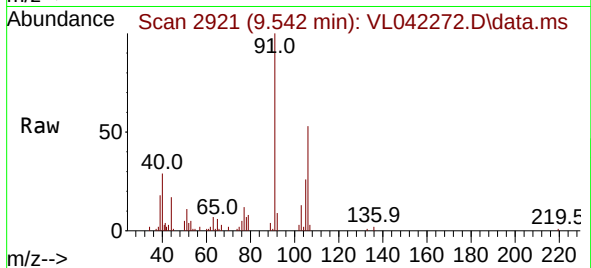
SSSG-B1-1-04012025

Tgt Ion: 91 Resp: 13334

Ion Ratio Lower Upper

91 100

106 48.2 36.4 54.6



#60

o-Xylene

Concen: 0.270 ppbv

RT: 9.542 min Scan# 2921

Delta R.T. -0.418 min

Lab File: VL042272.D

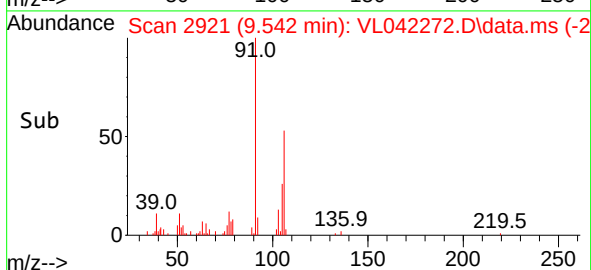
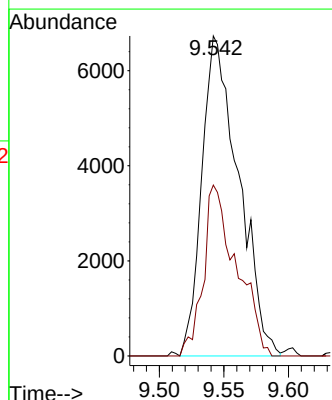
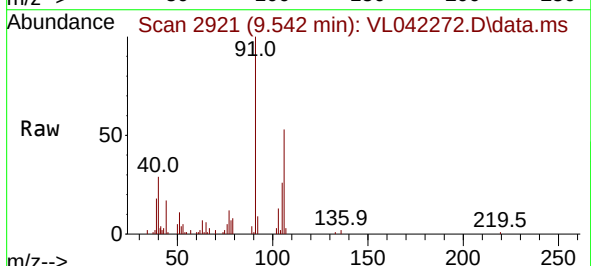
Acq: 08 Apr 2025 20:30

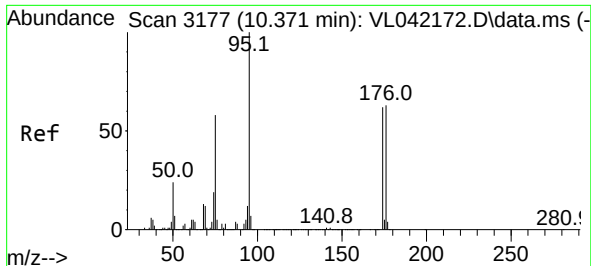
Tgt Ion: 91 Resp: 13334

Ion Ratio Lower Upper

91 100

106 48.2 20.8 62.5

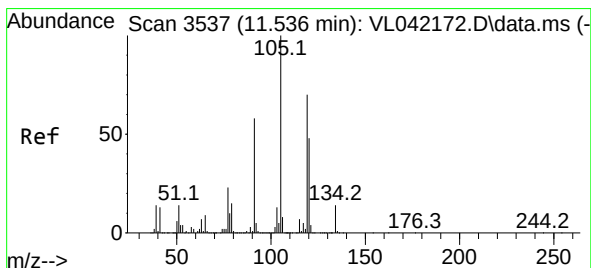
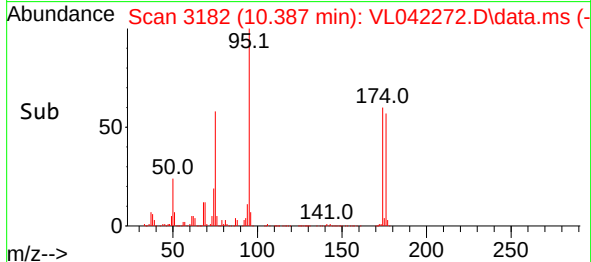
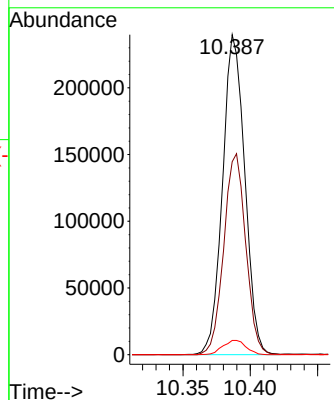
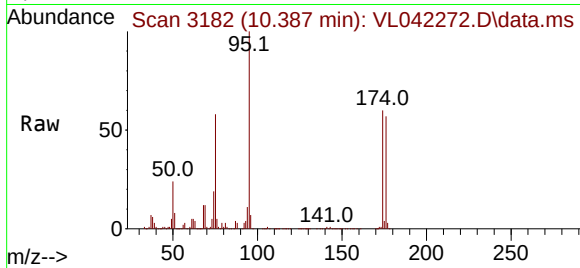




#68
1-Bromo-4-Fluorobenzene
Concen: 9.629 ppbv
RT: 10.387 min Scan# 3177
Delta R.T. 0.016 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

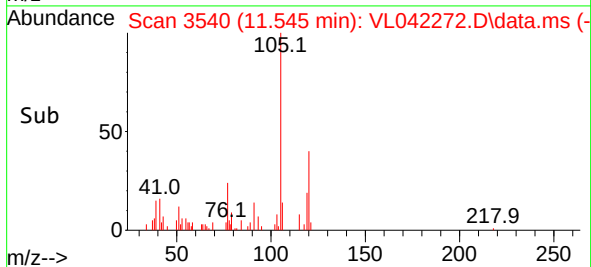
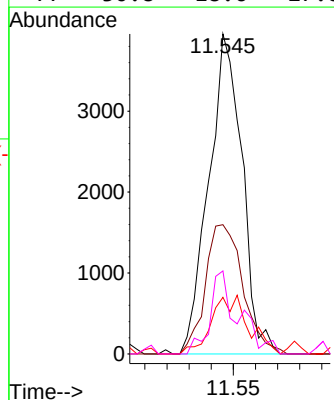
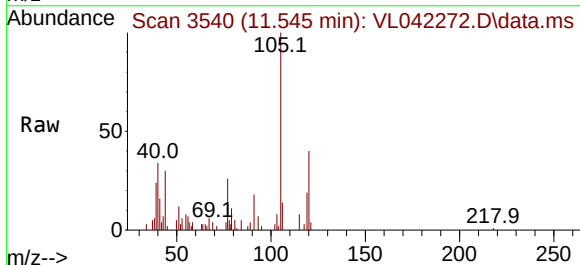
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B1-1-04012025

Tgt Ion: 95 Resp: 274979
Ion Ratio Lower Upper
95 100
174 62.4 50.6 76.0
175 4.7 3.8 5.6



#74
1,2,4-Trimethylbenzene
Concen: 0.067 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. 0.009 min
Lab File: VL042272.D
Acq: 08 Apr 2025 20:30

Tgt Ion: 105 Resp: 4136
Ion Ratio Lower Upper
105 100
120 40.4 38.6 58.0
91 17.7 46.2 69.2#
77 30.8 18.6 27.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042273.D
 Acq On : 08 Apr 2025 21:37
 Operator : SY/MD
 Sample : Q1728-08DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-4-04022025DL

Quant Time: Apr 09 02:00:30 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)

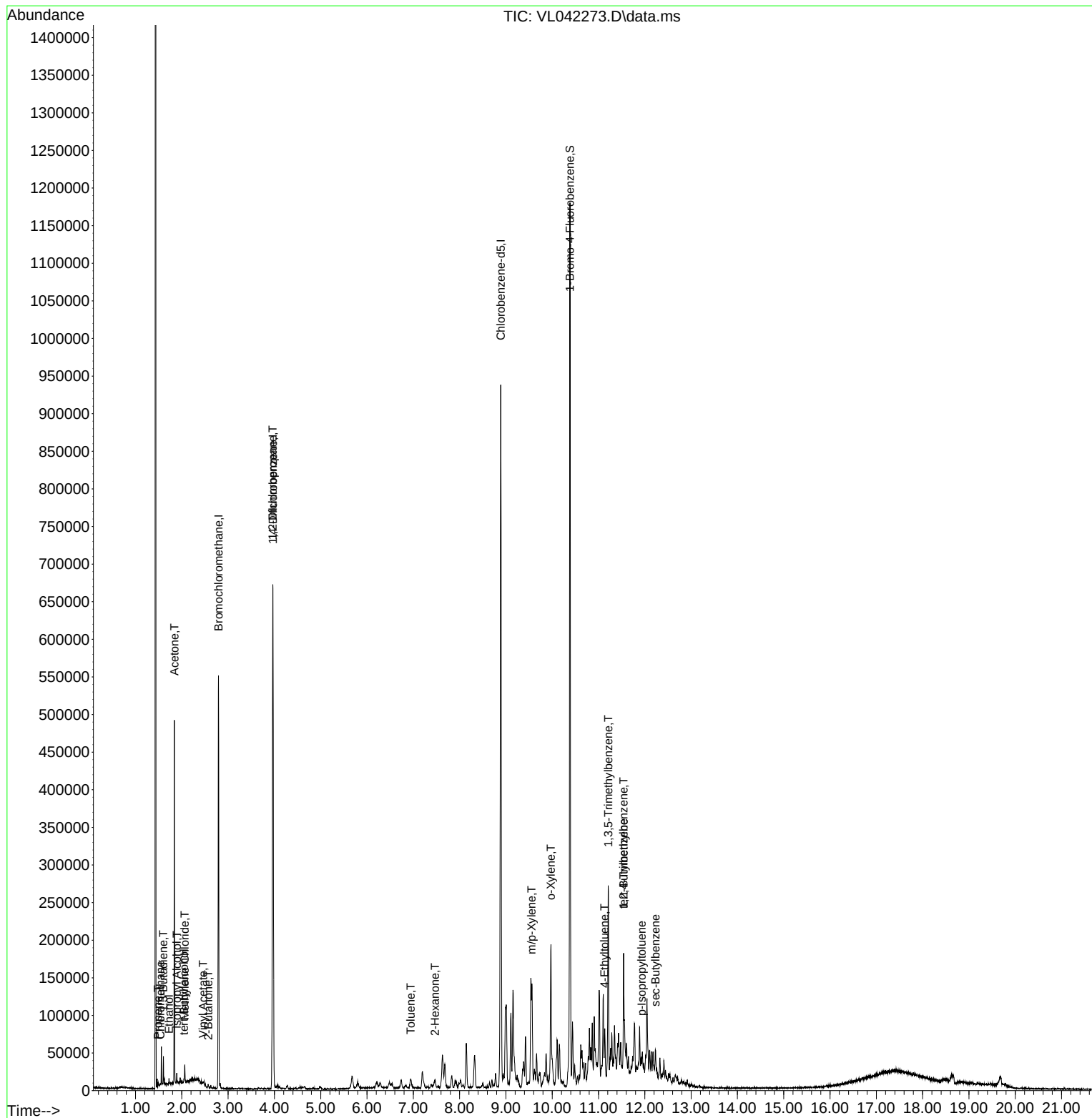
Internal Standards						
1) Bromochloromethane	2.793	49	152932	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	379227	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.888	117	368372	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	288158	9.526	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.300%
Target Compounds						
					Qvalue	
4) Chloromethane	1.534	50	411	0.045	ppbv	91
9) Propene	1.486	41	774	0.073	ppbv #	15
13) Ethanol	1.722	45	2775	2.776	ppbv #	27
15) Acetone	1.839	43	200607	9.379	ppbv	94
16) 1,3-Butadiene	1.602	39	3718	0.356	ppbv #	20
17) tert-Butyl alcohol	2.049	59	1520	0.057	ppbv #	71
19) Isopropyl Alcohol	1.890	45	5026	0.416	ppbv #	1
20) Methylene Chloride	2.065	84	3517	0.442	ppbv #	78
23) Vinyl Acetate	2.460	43	883	0.095	ppbv #	37
34) 2-Butanone	2.570	43	3390	0.123	ppbv	98
39) 1,2-Dichloropropane	3.965	63	97495	7.121	ppbv #	22
51) 2-Hexanone	7.467	43	1738	0.049	ppbv #	28
53) Toluene	6.943	91	8155	0.183	ppbv	99
59) m/p-Xylene	9.552	91	2857	0.055	ppbv #	31
60) o-Xylene	9.972	91	80843	1.543	ppbv	98
65) tert-Butylbenzene	11.542	119	6962	0.096	ppbv #	66
67) sec-Butylbenzene	12.232	105	3123	0.031	ppbv	96
69) p-Isopropyltoluene	11.934	119	2721	0.031	ppbv #	78
72) 4-Ethyltoluene	11.131	105	16952	0.260	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.212	105	41500	0.729	ppbv	97
74) 1,2,4-Trimethylbenzene	11.542	105	52472	0.800	ppbv #	64

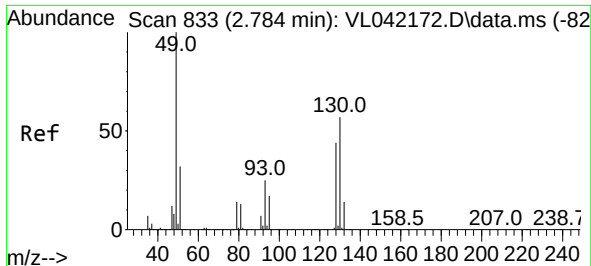
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042273.D
Acq On : 08 Apr 2025 21:37
Operator : SY/MD
Sample : Q1728-08DL 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025DL

Quant Time: Apr 09 02:00:30 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

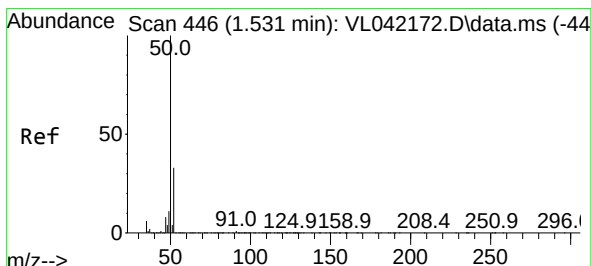
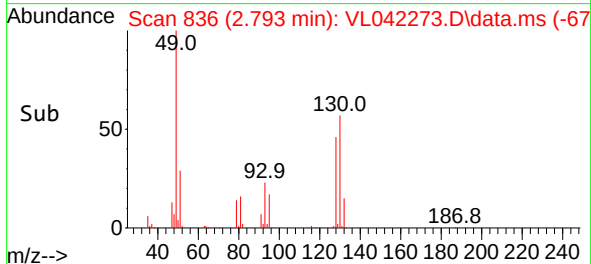
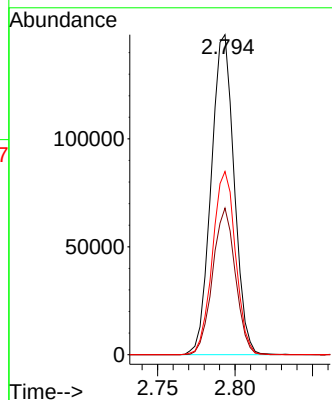
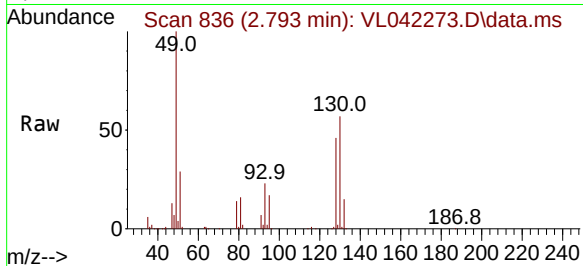




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

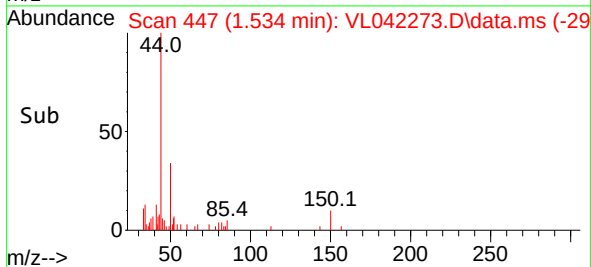
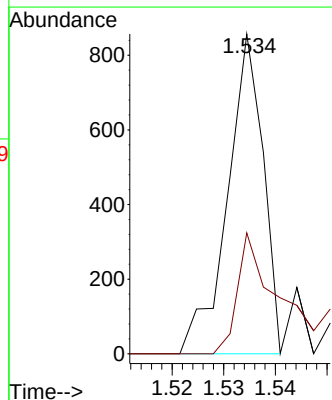
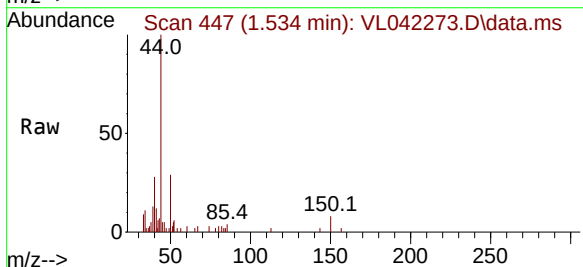
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025DL

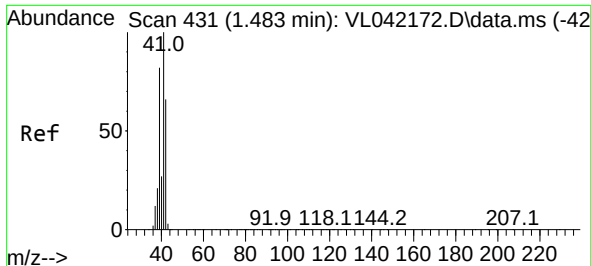
Tgt Ion: 49 Resp: 152932
Ion Ratio Lower Upper
49 100
128 45.3 22.9 68.5
130 57.5 28.8 86.4



#4
Chloromethane
Concen: 0.045 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

Tgt Ion: 50 Resp: 411
Ion Ratio Lower Upper
50 100
52 37.8 26.1 39.1





#9

Propene

Concen: 0.073 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042273.D

Acq: 08 Apr 2025 21:37

Instrument :

MSVOA_L

ClientSampleId :

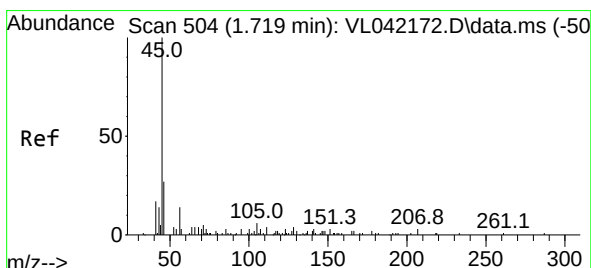
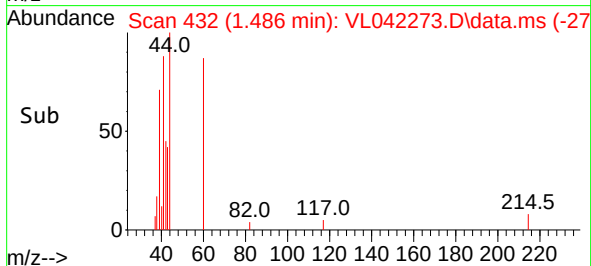
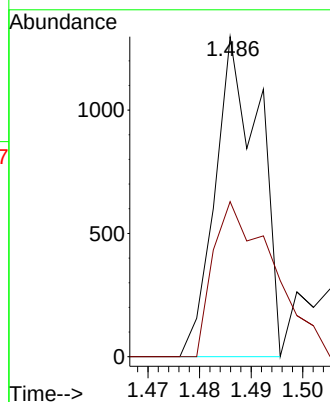
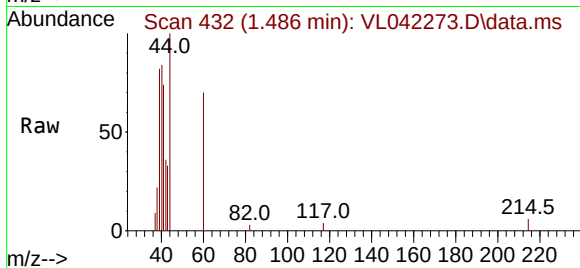
SSSG-B2-4-04022025DL

Tgt Ion: 41 Resp: 774

Ion Ratio Lower Upper

41 100

42 0.0 55.4 83.2#



#13

Ethanol

Concen: 2.776 ppbv

RT: 1.722 min Scan# 505

Delta R.T. 0.003 min

Lab File: VL042273.D

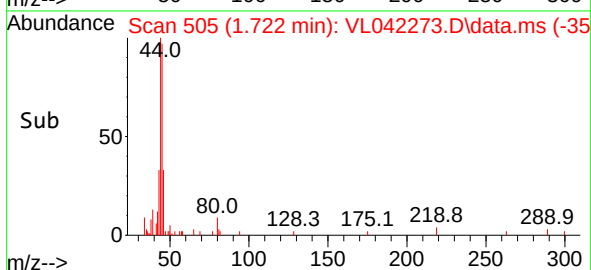
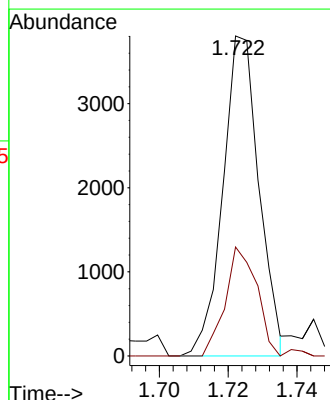
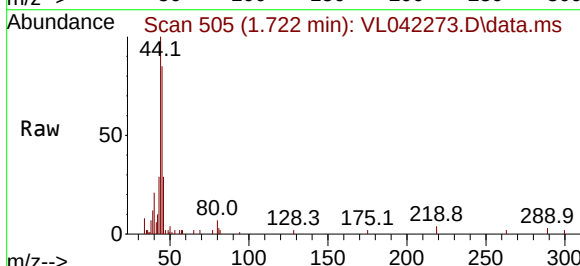
Acq: 08 Apr 2025 21:37

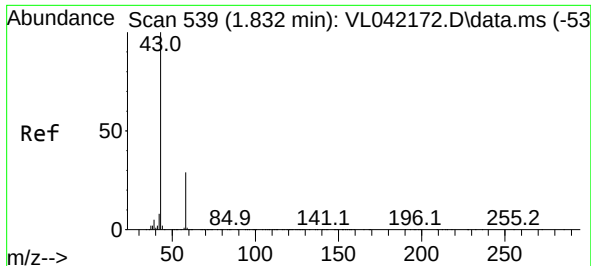
Tgt Ion: 45 Resp: 2775

Ion Ratio Lower Upper

45 100

46 0.0 20.2 80.8#





#15

Acetone

Concen: 9.379 ppbv

RT: 1.839 min Scan# 541

Delta R.T. 0.006 min

Lab File: VL042273.D

Acq: 08 Apr 2025 21:37

Instrument :

MSVOA_1

ClientSampleId :

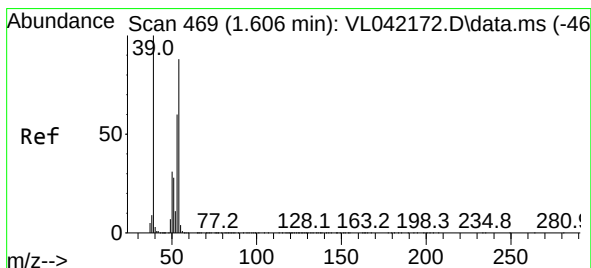
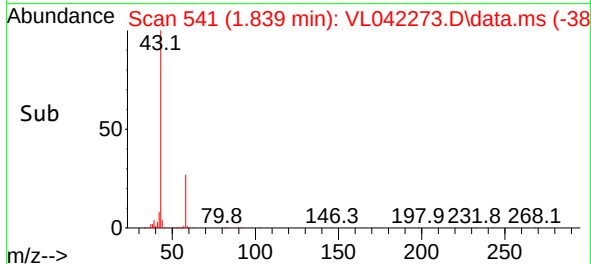
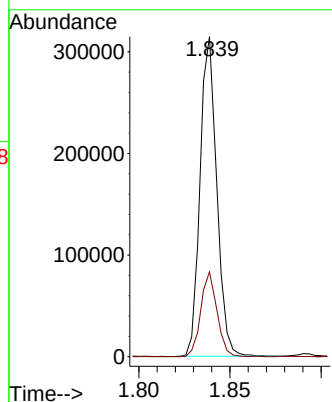
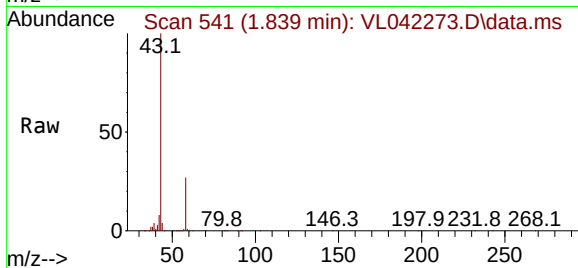
SSSG-B2-4-04022025DL

Tgt Ion: 43 Resp: 200607

Ion Ratio Lower Upper

43 100

58 25.9 23.2 34.8



#16

1,3-Butadiene

Concen: 0.356 ppbv

RT: 1.602 min Scan# 468

Delta R.T. -0.003 min

Lab File: VL042273.D

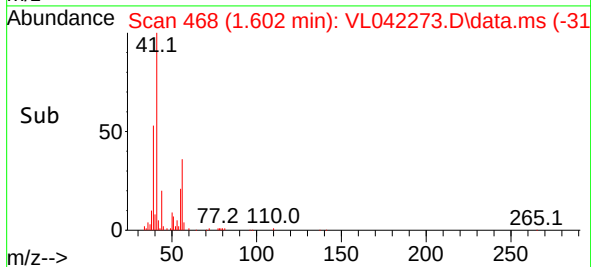
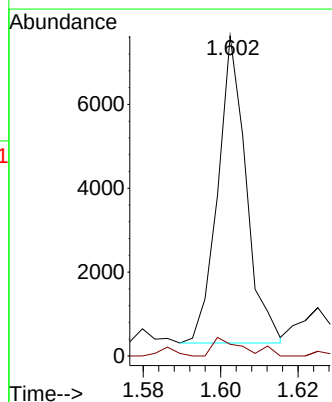
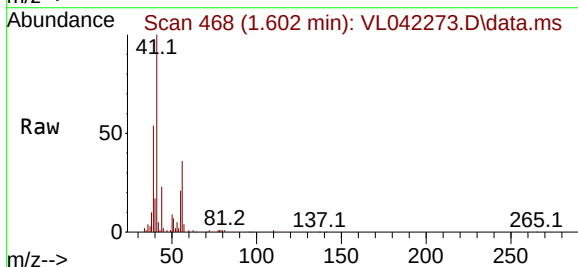
Acq: 08 Apr 2025 21:37

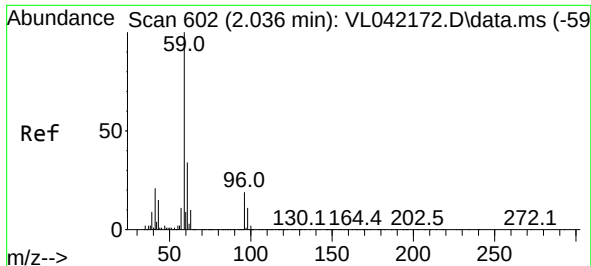
Tgt Ion: 39 Resp: 3718

Ion Ratio Lower Upper

39 100

54 7.4 60.7 91.1#





#17

tert-Butyl alcohol

Concen: 0.057 ppbv

RT: 2.049 min Scan# 602

Delta R.T. 0.013 min

Lab File: VL042273.D

Acq: 08 Apr 2025 21:37

Instrument :

MSVOA_L

ClientSampleId :

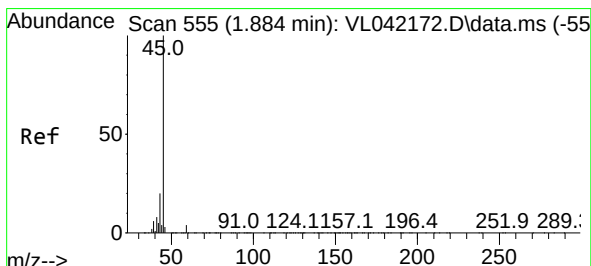
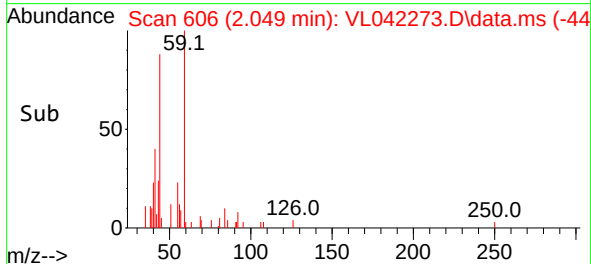
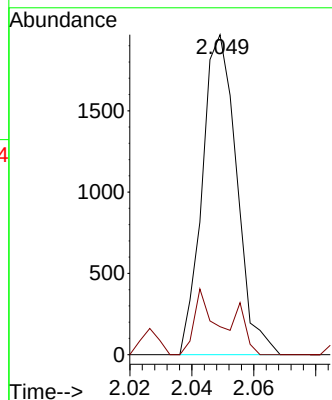
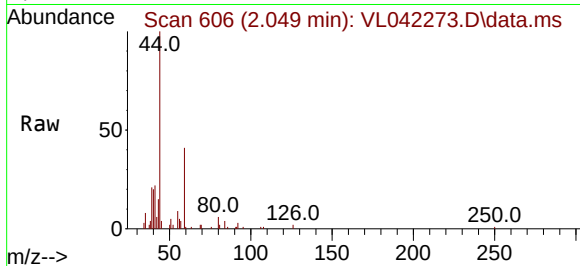
SSSG-B2-4-04022025DL

Tgt Ion: 59 Resp: 1520

Ion Ratio Lower Upper

59 100

57 22.2 8.9 13.3#



#19

Isopropyl Alcohol

Concen: 0.416 ppbv

RT: 1.890 min Scan# 557

Delta R.T. 0.006 min

Lab File: VL042273.D

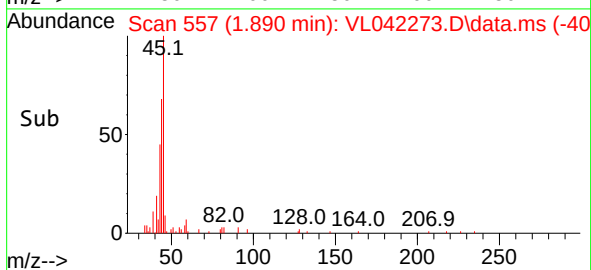
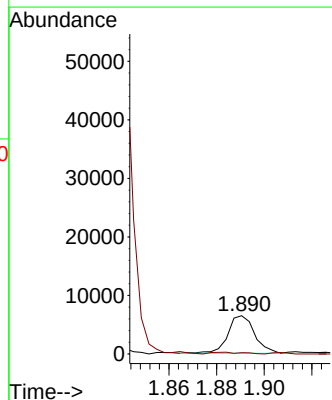
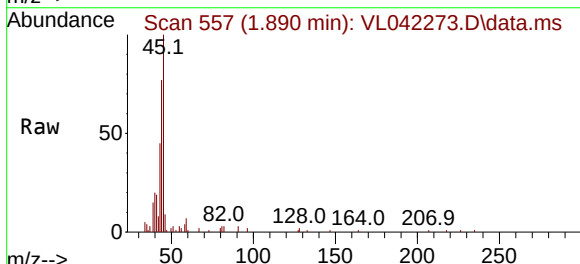
Acq: 08 Apr 2025 21:37

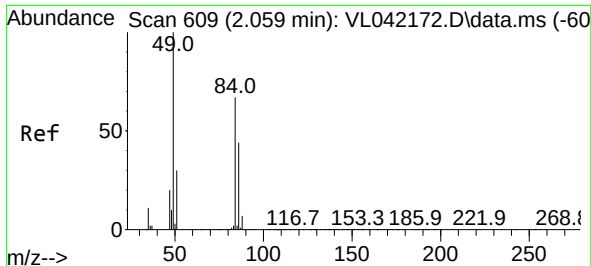
Tgt Ion: 45 Resp: 5026

Ion Ratio Lower Upper

45 100

58 1031.6 36.9 55.3#





#20

Methylene Chloride

Concen: 0.442 ppbv

RT: 2.065 min Scan# 611

Delta R.T. 0.006 min

Lab File: VL042273.D

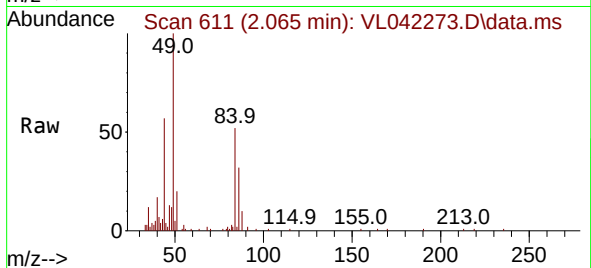
Acq: 08 Apr 2025 21:37

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-4-04022025DL



Tgt Ion: 84 Resp: 3517

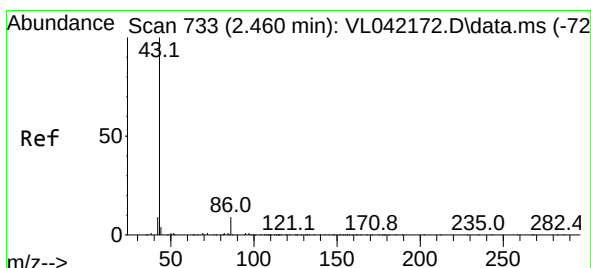
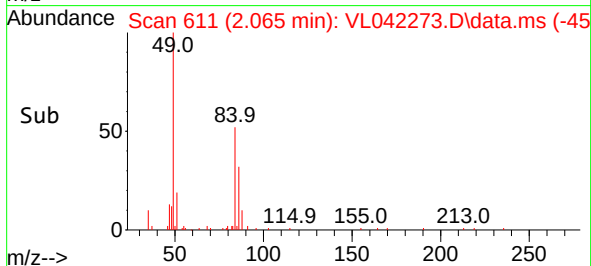
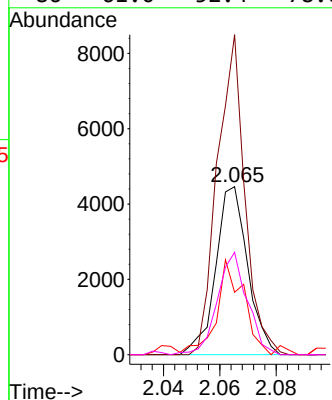
Ion Ratio Lower Upper

84 100

49 190.6 120.2 180.4#

51 35.9 37.4 56.0#

86 61.0 52.4 78.6



#23

Vinyl Acetate

Concen: 0.095 ppbv

RT: 2.460 min Scan# 733

Delta R.T. -0.000 min

Lab File: VL042273.D

Acq: 08 Apr 2025 21:37

Tgt Ion: 43 Resp: 883

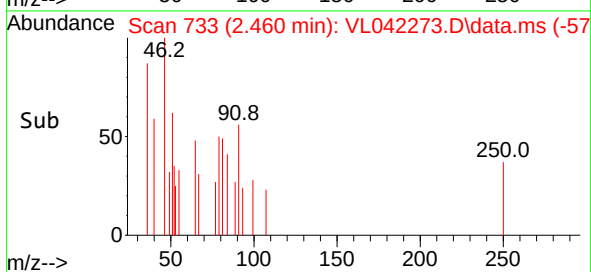
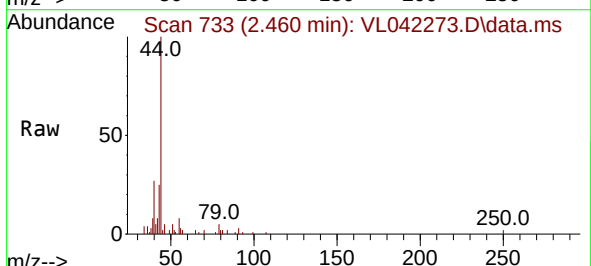
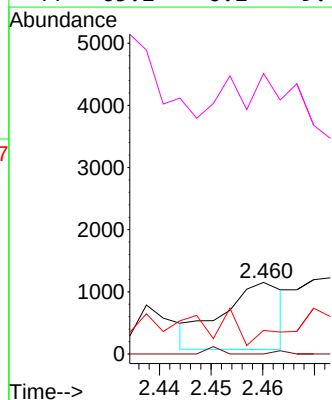
Ion Ratio Lower Upper

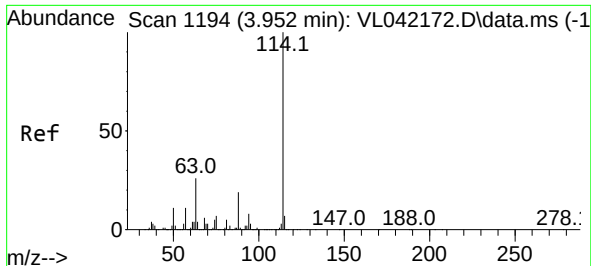
43 100

86 0.0 5.5 8.3#

42 3.7 8.6 13.0#

44 65.2 6.2 9.4#

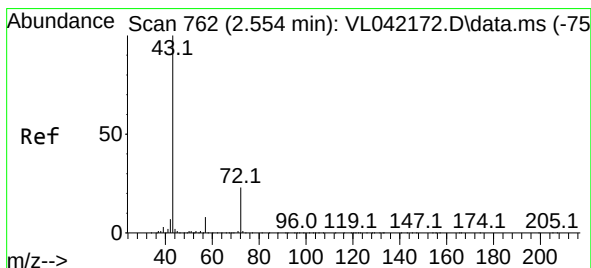
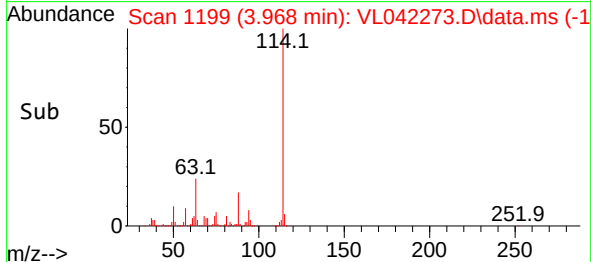
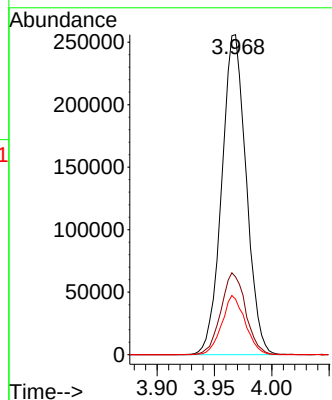
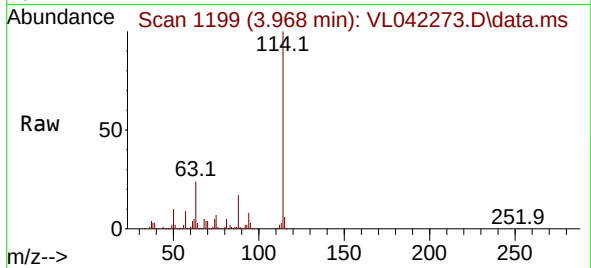




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. 0.016 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

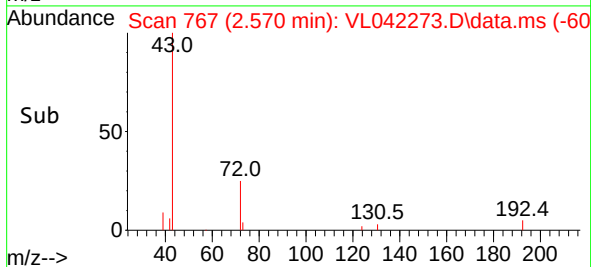
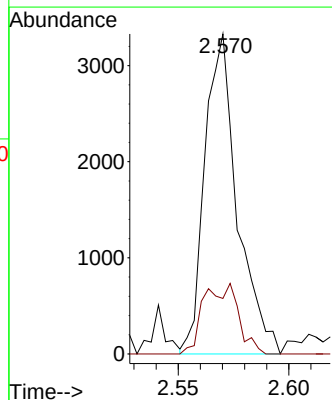
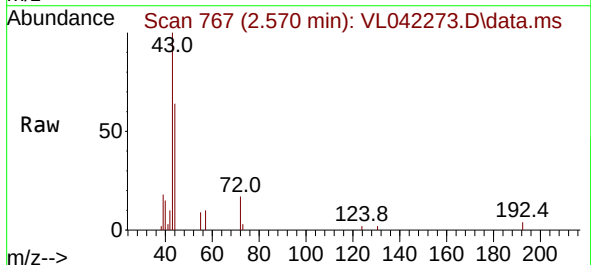
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025DL

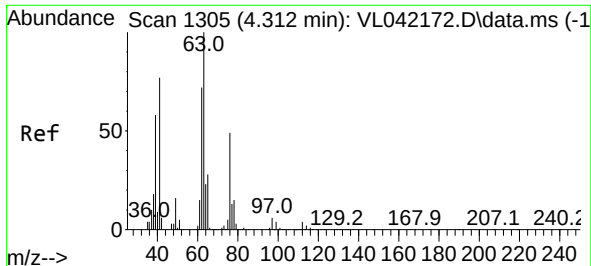
Tgt Ion:114 Resp: 379227
Ion Ratio Lower Upper
114 100
63 26.0 20.7 31.1
88 17.7 15.0 22.4



#34
2-Butanone
Concen: 0.123 ppbv
RT: 2.570 min Scan# 767
Delta R.T. 0.016 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

Tgt Ion: 43 Resp: 3390
Ion Ratio Lower Upper
43 100
72 23.7 18.2 27.2





#39

1,2-Dichloropropane

Concen: 7.121 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. -0.346 min

Lab File: VL042273.D

Acq: 08 Apr 2025 21:37

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-4-04022025DL

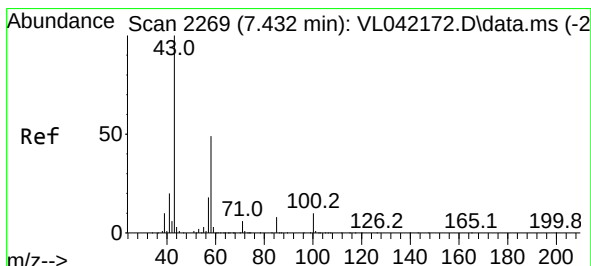
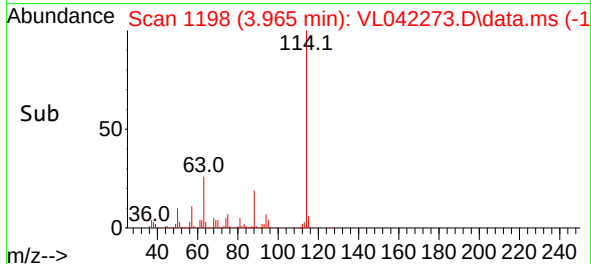
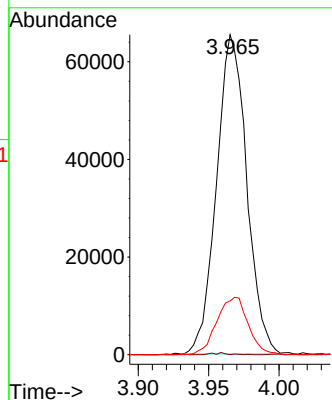
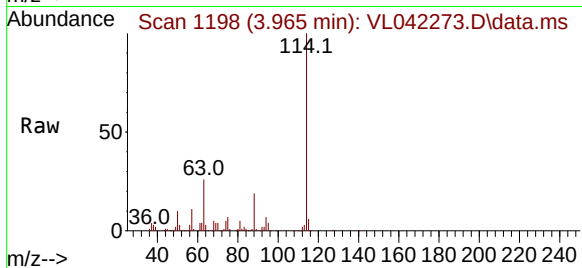
Tgt Ion: 63 Resp: 97495

Ion Ratio Lower Upper

63 100

41 0.0 61.7 92.5#

62 16.8 57.6 86.4#



#51

2-Hexanone

Concen: 0.049 ppbv

RT: 7.467 min Scan# 2280

Delta R.T. 0.035 min

Lab File: VL042273.D

Acq: 08 Apr 2025 21:37

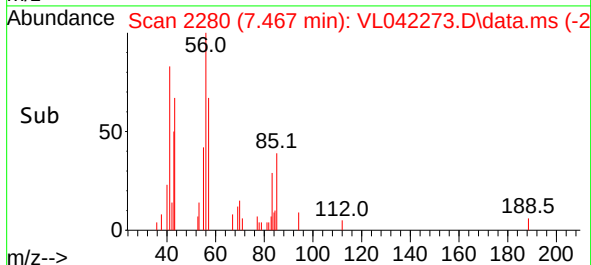
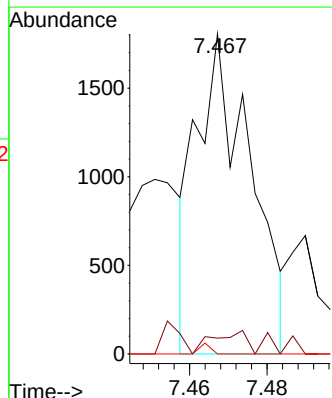
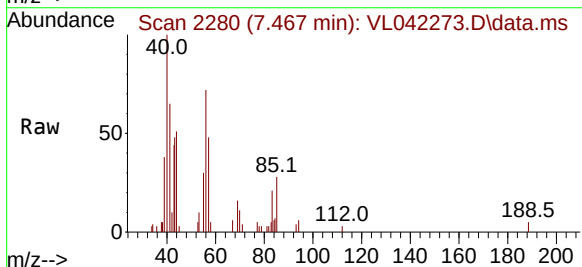
Tgt Ion: 43 Resp: 1738

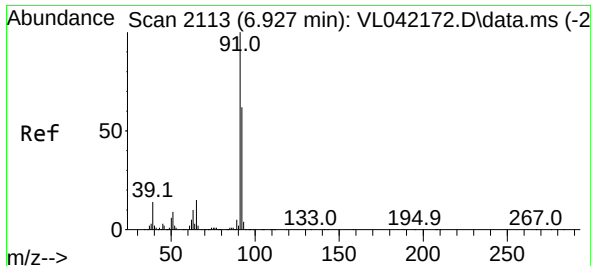
Ion Ratio Lower Upper

43 100

58 0.0 39.7 59.5#

98 0.0 0.1 0.1#

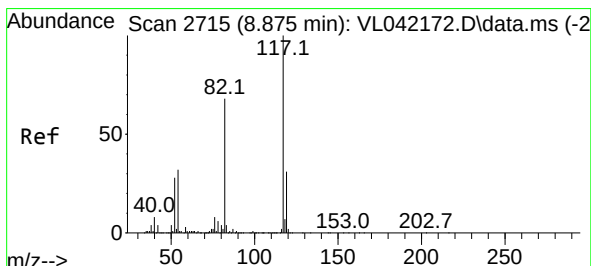
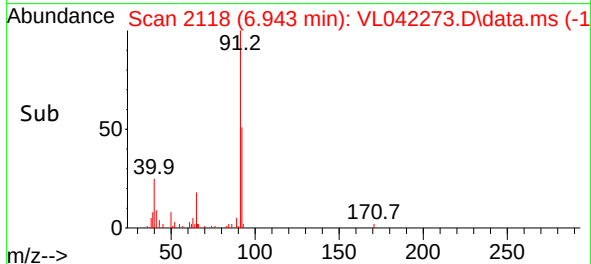
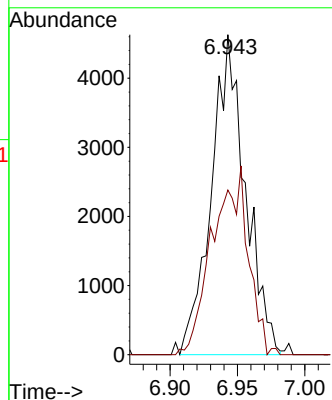
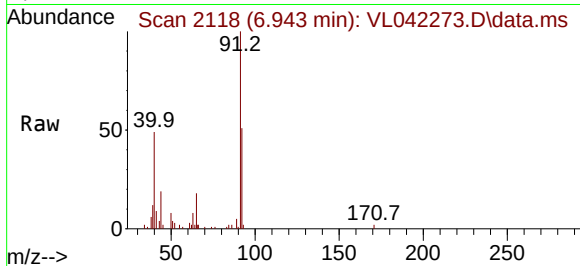




#53
Toluene
Concen: 0.183 ppbv
RT: 6.943 min Scan# 2113
Delta R.T. 0.016 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

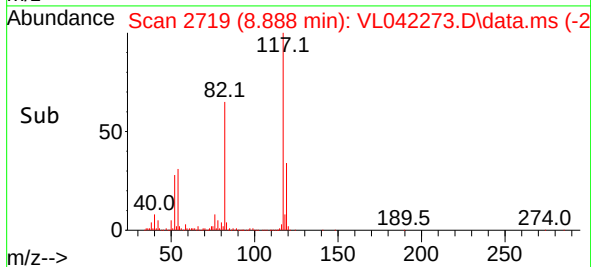
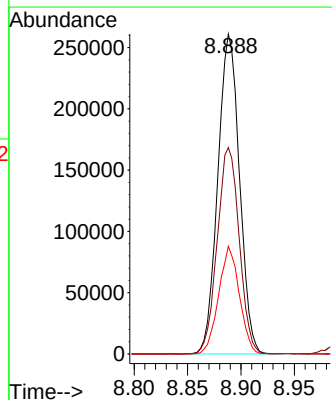
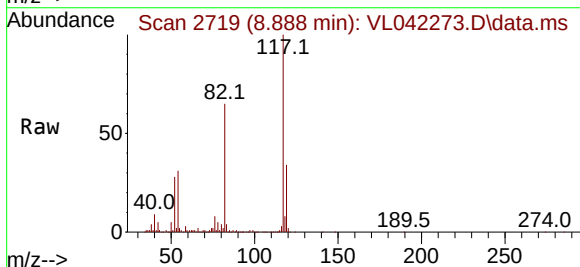
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025DL

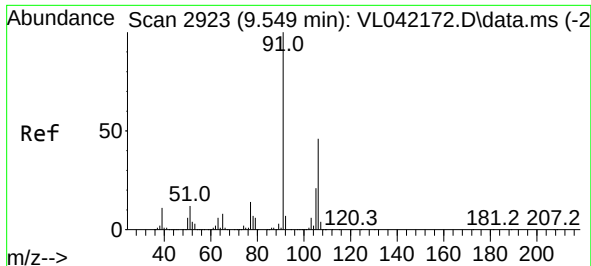
Tgt Ion: 91 Resp: 8155
Ion Ratio Lower Upper
91 100
92 61.1 48.4 72.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.013 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

Tgt Ion: 117 Resp: 368372
Ion Ratio Lower Upper
117 100
82 65.6 55.8 83.6
119 32.2 25.5 38.3





#59

m/p-Xylene

Concen: 0.055 ppbv

RT: 9.552 min Scan# 2923

Delta R.T. 0.003 min

Lab File: VL042273.D

Acq: 08 Apr 2025 21:37

Instrument :

MSVOA_1

ClientSampleId :

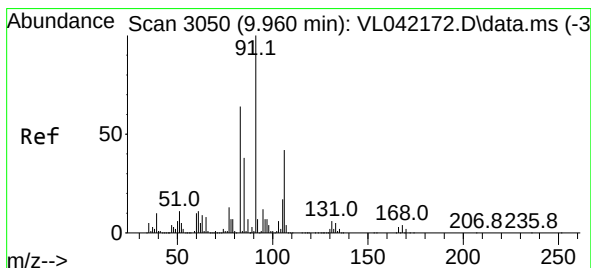
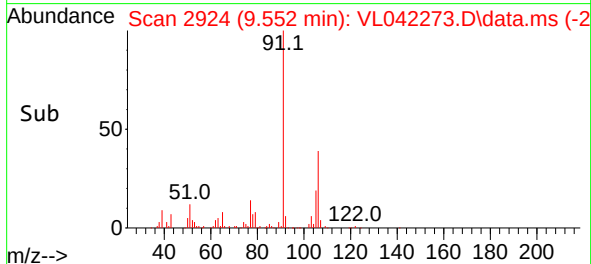
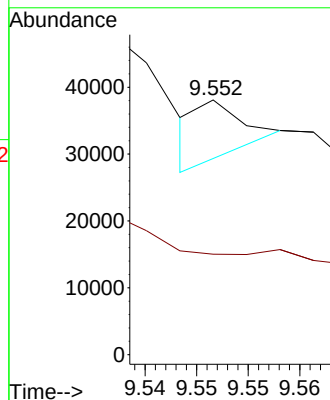
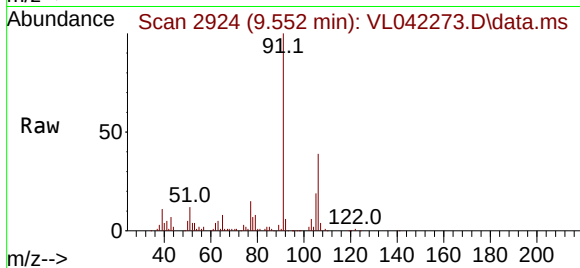
SSSG-B2-4-04022025DL

Tgt Ion: 91 Resp: 2857

Ion Ratio Lower Upper

91 100

106 0.0 36.4 54.6#



#60

o-Xylene

Concen: 1.543 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. 0.013 min

Lab File: VL042273.D

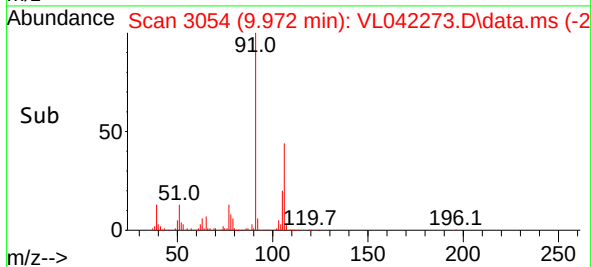
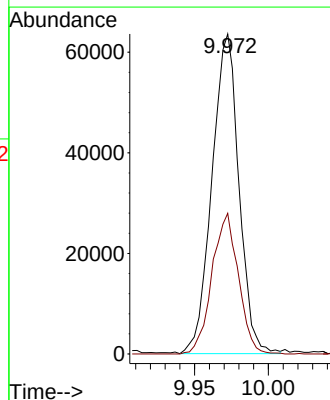
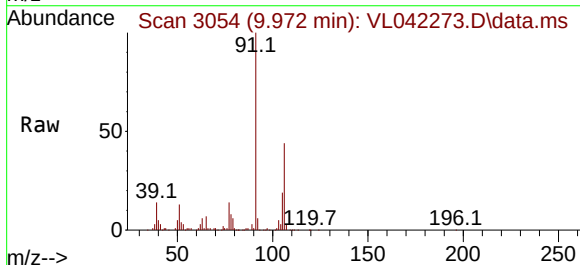
Acq: 08 Apr 2025 21:37

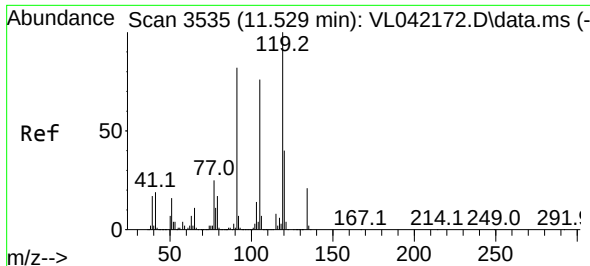
Tgt Ion: 91 Resp: 80843

Ion Ratio Lower Upper

91 100

106 43.1 20.8 62.5

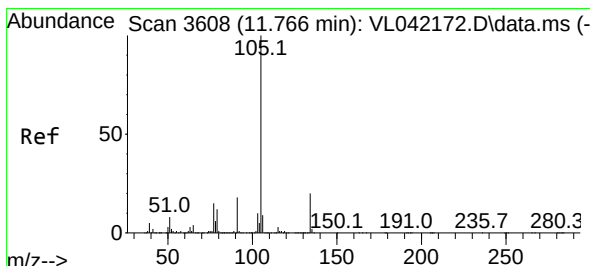
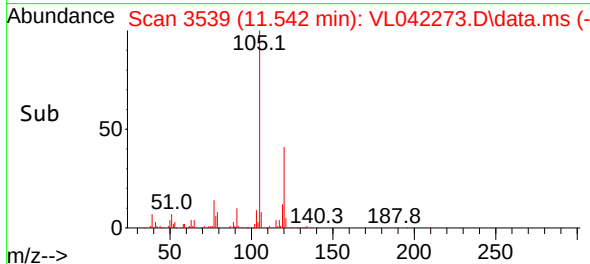
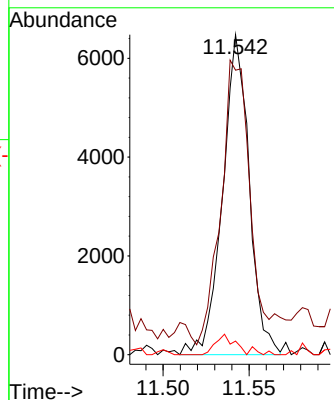
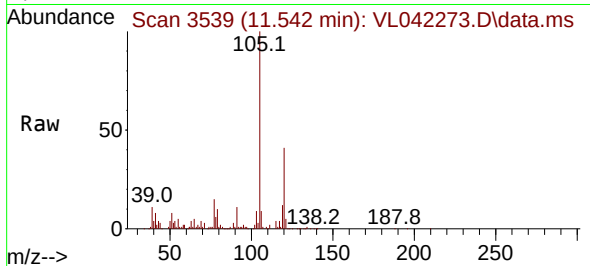




#65
tert-Butylbenzene
Concen: 0.096 ppbv
RT: 11.542 min Scan# 31
Delta R.T. 0.013 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

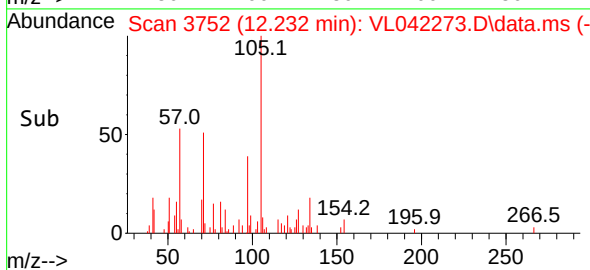
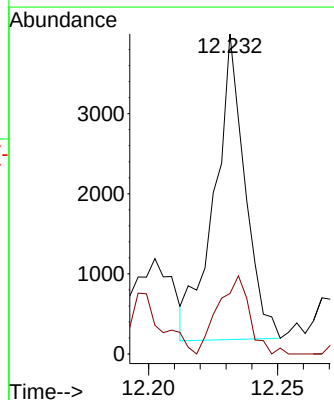
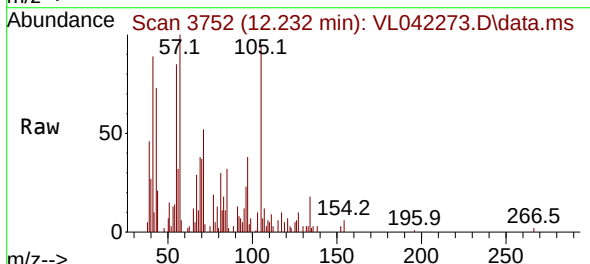
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025DL

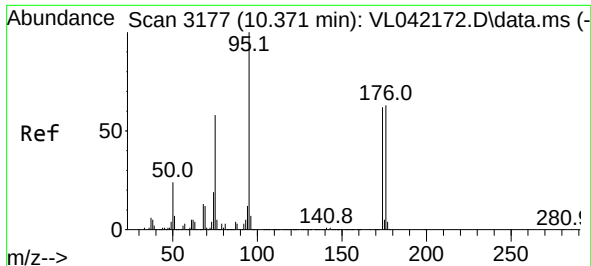
Tgt Ion:119 Resp: 6962
Ion Ratio Lower Upper
119 100
91 112.8 66.0 99.0#
134 5.1 16.7 25.1#



#67
sec-Butylbenzene
Concen: 0.031 ppbv
RT: 12.232 min Scan# 3752
Delta R.T. 0.466 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

Tgt Ion:105 Resp: 3123
Ion Ratio Lower Upper
105 100
134 21.3 15.5 23.3

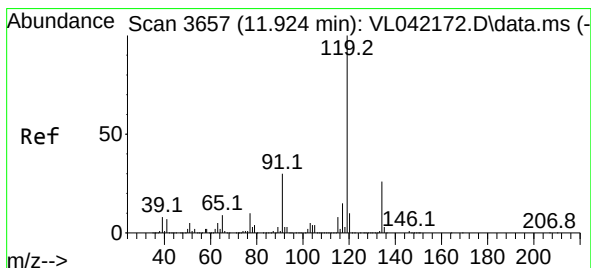
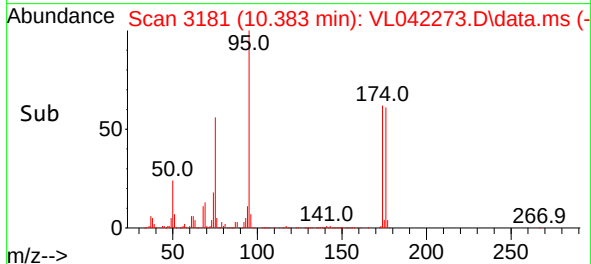
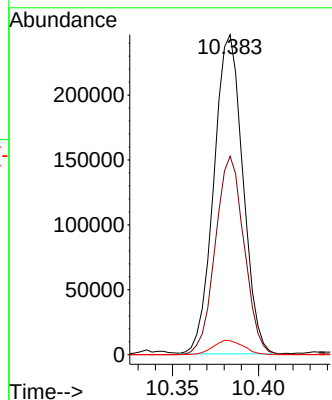
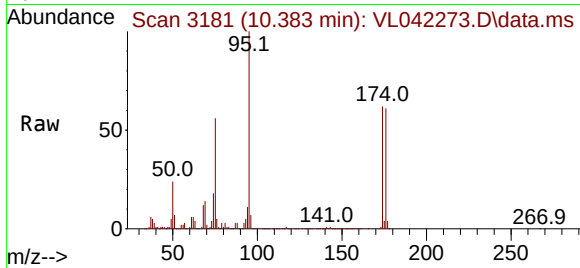




#68
1-Bromo-4-Fluorobenzene
Concen: 9.526 ppbv
RT: 10.383 min Scan# 3177
Delta R.T. 0.013 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

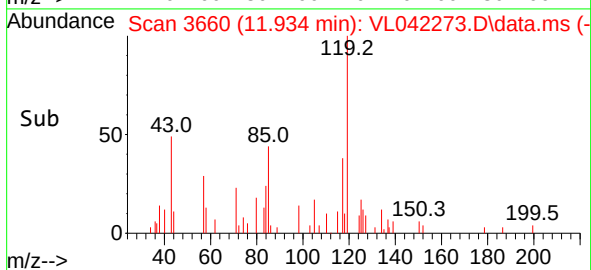
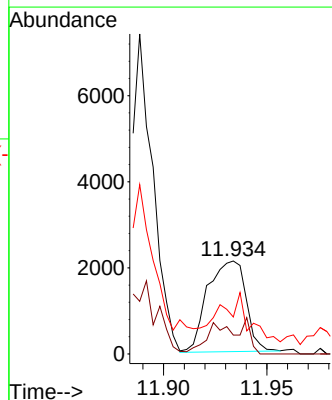
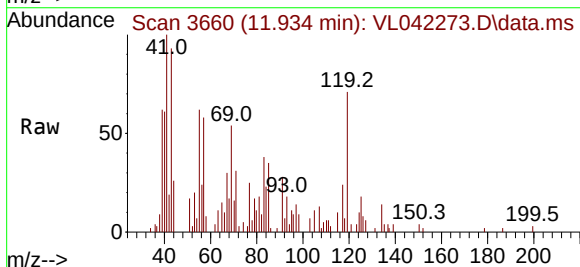
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025DL

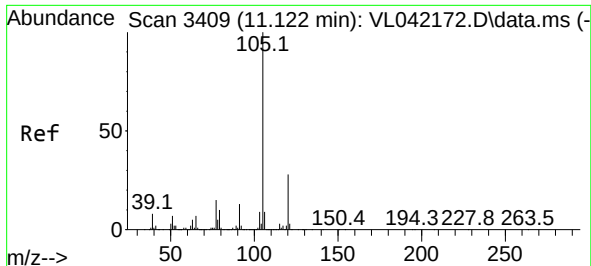
Tgt Ion: 95 Resp: 288158
Ion Ratio Lower Upper
95 100
174 61.8 50.6 76.0
175 4.7 3.8 5.6



#69
p-Isopropyltoluene
Concen: 0.031 ppbv
RT: 11.934 min Scan# 3660
Delta R.T. 0.010 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

Tgt Ion: 119 Resp: 2721
Ion Ratio Lower Upper
119 100
134 29.5 20.4 30.6
91 47.8 23.7 35.5

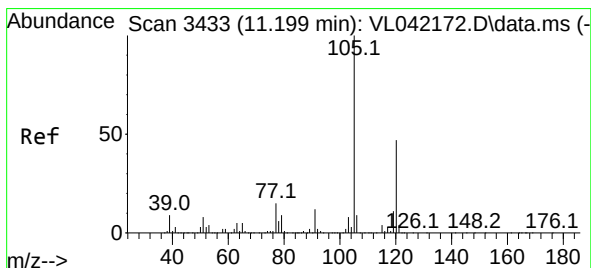
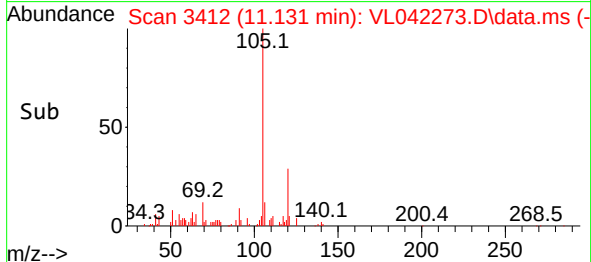
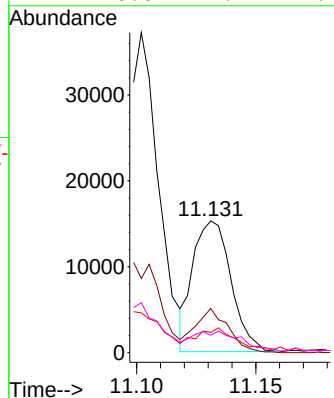
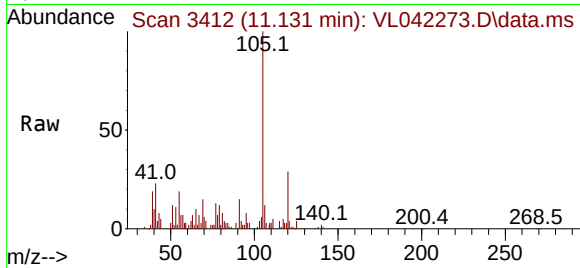




#72
4-Ethyltoluene
Concen: 0.260 ppbv
RT: 11.131 min Scan# 3409
Delta R.T. 0.010 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

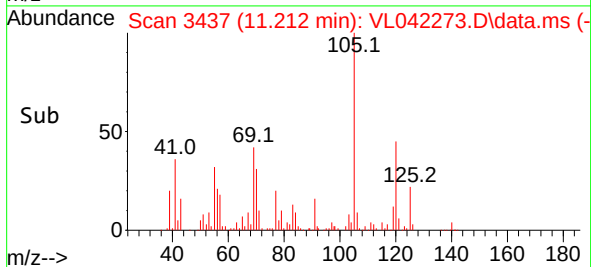
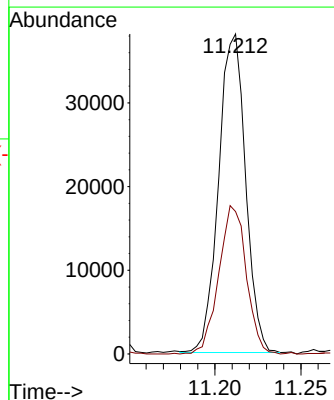
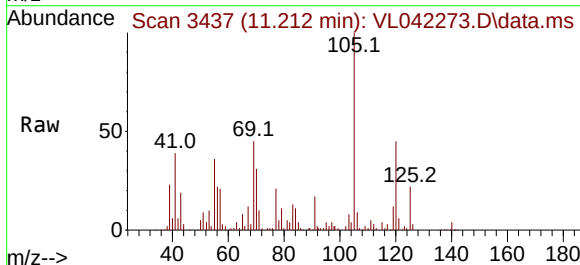
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025DL

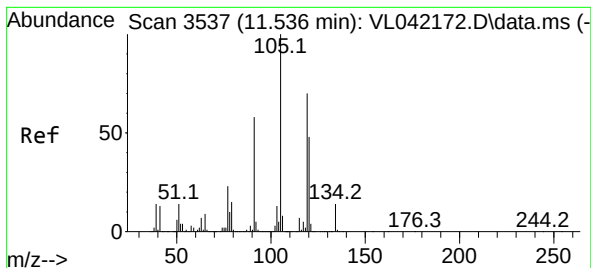
Tgt Ion:	105	Resp:	16952
Ion Ratio	Lower	Upper	
105	100		
120	0.0	23.4	35.0#
91	0.0	10.3	15.5#
77	0.0	11.4	17.2#



#73
1,3,5-Trimethylbenzene
Concen: 0.729 ppbv
RT: 11.212 min Scan# 3437
Delta R.T. 0.013 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

Tgt Ion:	105	Resp:	41500
Ion Ratio	Lower	Upper	
105	100		
120	44.7	37.4	56.0





#74

1,2,4-Trimethylbenzene

Concen: 0.800 ppbv

RT: 11.542 min Scan# 31

Delta R.T. 0.006 min

Lab File: VL042273.D

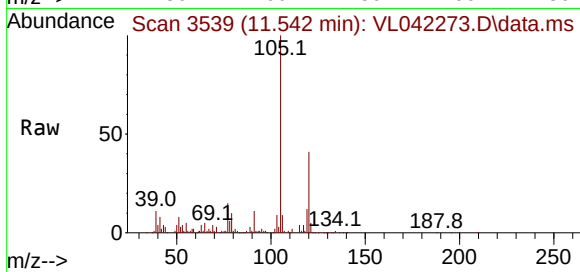
Acq: 08 Apr 2025 21:37

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-4-04022025DL



Tgt Ion:105 Resp: 52472

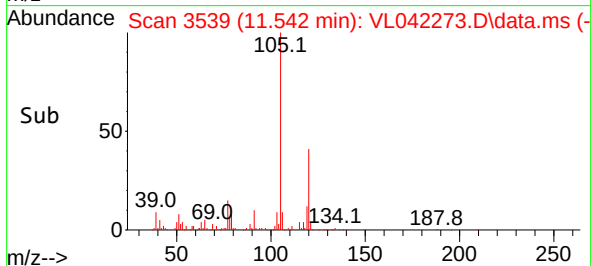
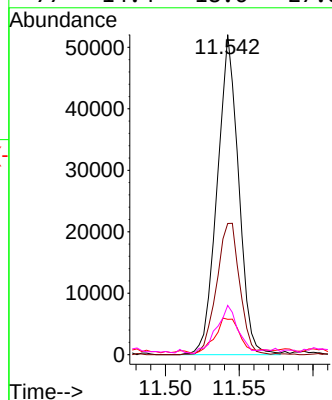
Ion Ratio Lower Upper

105 100

120 41.0 38.6 58.0

91 9.8 46.2 69.2#

77 14.4 18.6 27.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042274.D
 Acq On : 08 Apr 2025 22:11
 Operator : SY/MD
 Sample : Q1728-11 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-4-04012025

Quant Time: Apr 09 02:00:57 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)

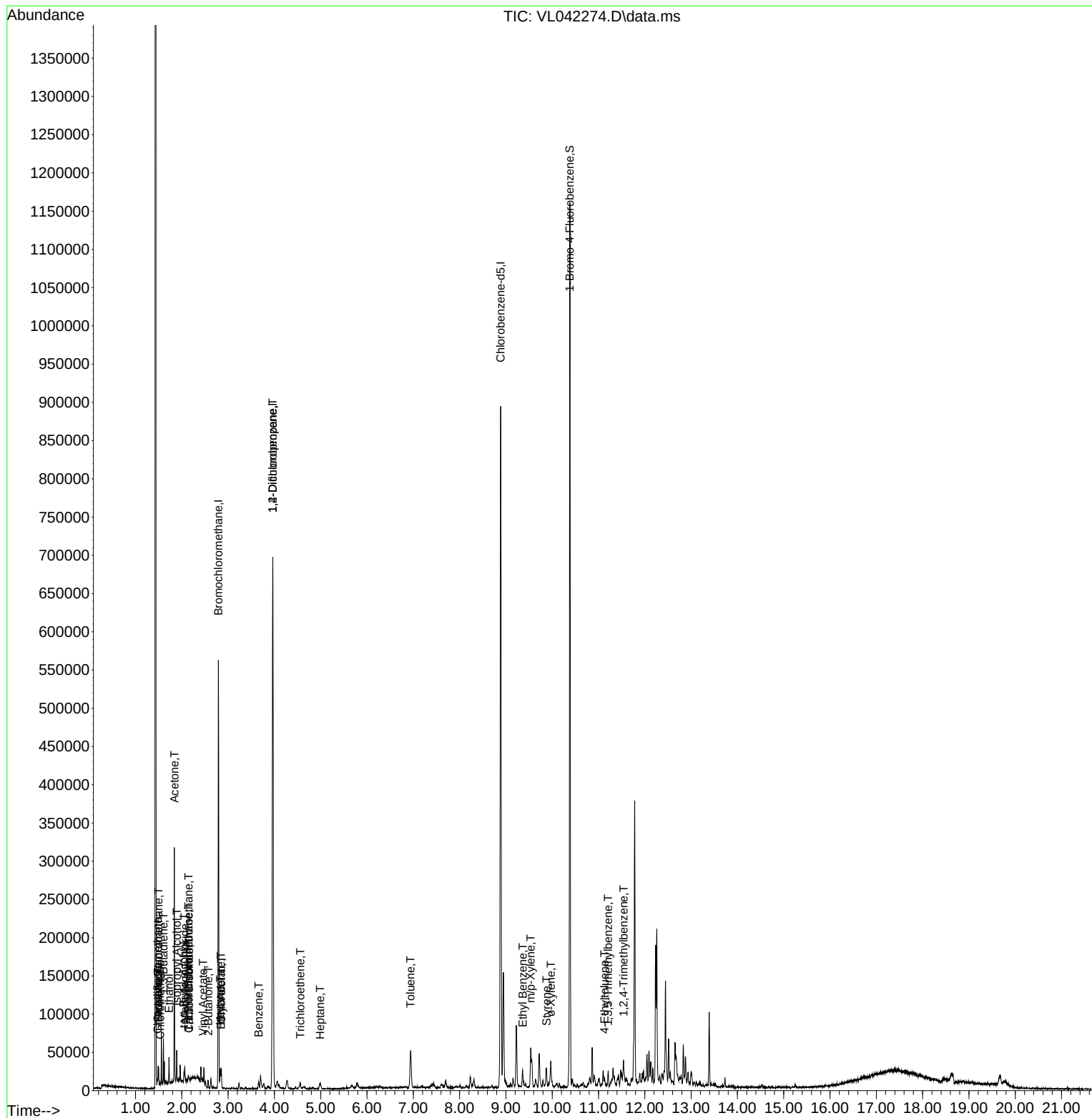
Internal Standards						
1) Bromochloromethane	2.790	49	156372	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	398763	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.885	117	359554	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	281110	9.520	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	5004	0.217	ppbv	89
3) Chlorodifluoromethane	1.479	51	5052	0.214	ppbv #	92
4) Chloromethane	1.531	50	480	0.051	ppbv	90
9) Propene	1.489	41	1785	0.165	ppbv	94
10) Heptane	4.988	43	1658	0.058	ppbv #	28
11) Trichlorofluoromethane	2.146	101	800	0.036	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.146	101	800	0.043	ppbv	92
13) Ethanol	1.722	45	11416	11.170	ppbv	83
15) Acetone	1.839	43	128185	5.861	ppbv	95
16) 1,3-Butadiene	1.602	39	6472	0.606	ppbv #	22
17) tert-Butyl alcohol	2.046	59	3888	0.143	ppbv	99
19) Isopropyl Alcohol	1.890	45	17157	1.390	ppbv #	1
20) Methylene Chloride	2.065	84	2710	0.333	ppbv #	93
23) Vinyl Acetate	2.457	43	1492	0.158	ppbv #	76
25) Ethyl Acetate	2.845	43	1744	0.031	ppbv #	85
26) Hexane	2.829	57	4605	0.210	ppbv #	40
27) Carbon Disulfide	2.156	76	899	0.038	ppbv #	1
29) Chloroform	2.852	83	9004	0.281	ppbv	97
34) 2-Butanone	2.570	43	5858	0.203	ppbv	98
36) Benzene	3.658	78	5637	0.143	ppbv #	90
38) Trichloroethene	4.557	130	854	0.052	ppbv #	94
39) 1,2-Dichloropropane	3.965	63	102394	7.112	ppbv #	22
53) Toluene	6.940	91	34973	0.746	ppbv	99
58) Ethyl Benzene	9.364	91	10002	0.157	ppbv	97
59) m/p-Xylene	9.535	91	32175	0.631	ppbv	100
60) o-Xylene	9.969	91	13256	0.259	ppbv	98
61) Styrene	9.879	104	3116	0.123	ppbv #	9
72) 4-Ethyltoluene	11.128	105	3026	0.048	ppbv #	58
73) 1,3,5-Trimethylbenzene	11.209	105	3685	0.066	ppbv	87
74) 1,2,4-Trimethylbenzene	11.542	105	9995	0.156	ppbv #	61

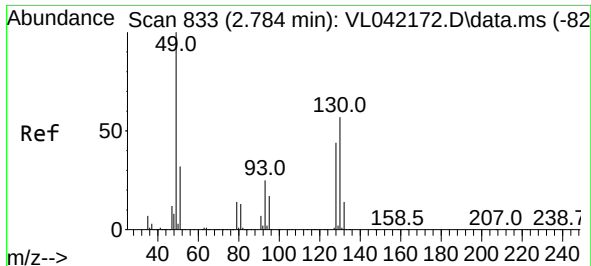
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042274.D
Acq On : 08 Apr 2025 22:11
Operator : SY/MD
Sample : Q1728-11 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025

Quant Time: Apr 09 02:00:57 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

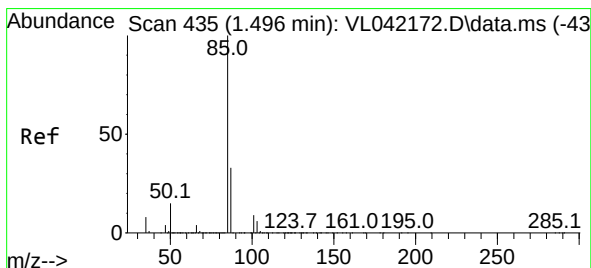
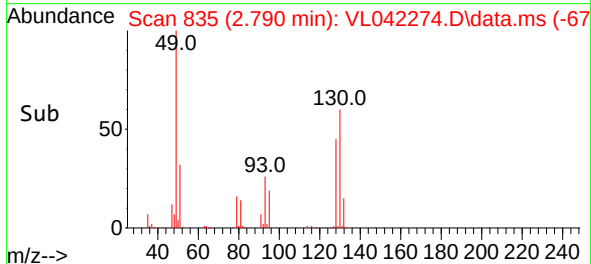
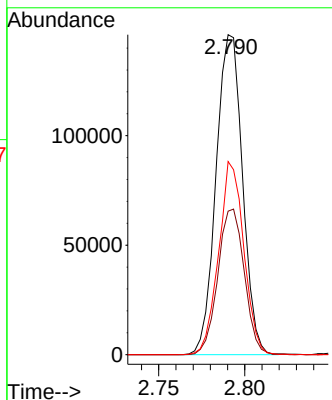
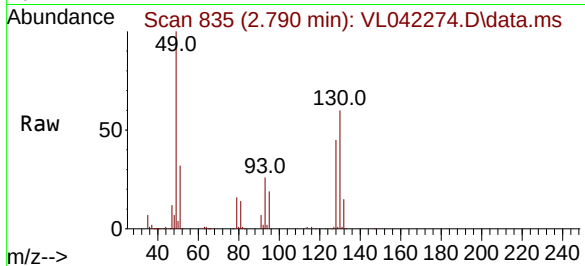




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.790 min Scan# 81
 Delta R.T. 0.006 min
 Lab File: VL042274.D
 Acq: 08 Apr 2025 22:11

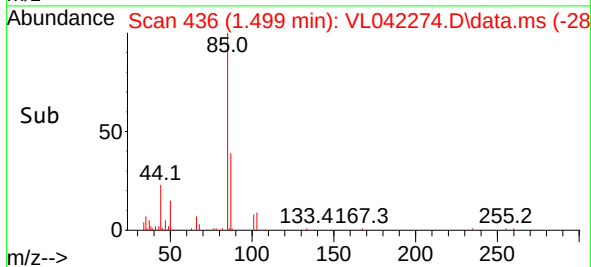
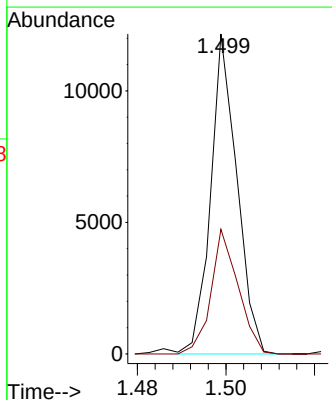
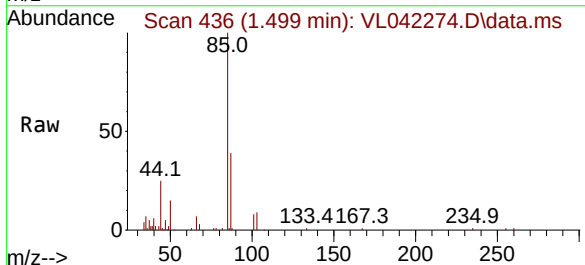
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-4-04012025

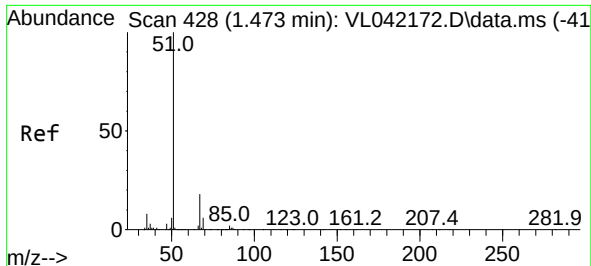
Tgt Ion: 49 Resp: 156372
 Ion Ratio Lower Upper
 49 100
 128 45.5 22.9 68.5
 130 57.4 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 0.217 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.003 min
 Lab File: VL042274.D
 Acq: 08 Apr 2025 22:11

Tgt Ion: 85 Resp: 5004
 Ion Ratio Lower Upper
 85 100
 87 38.9 26.1 39.1

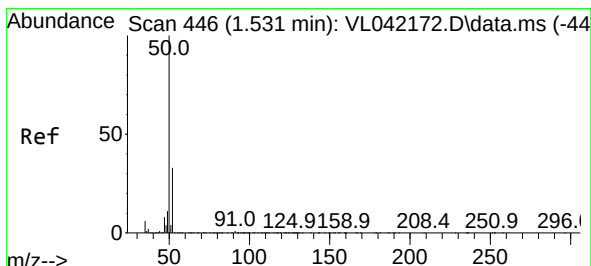
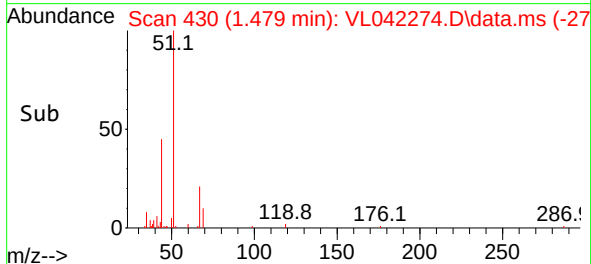
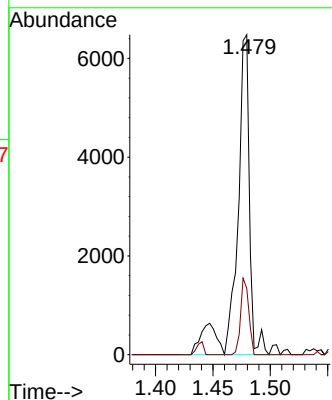
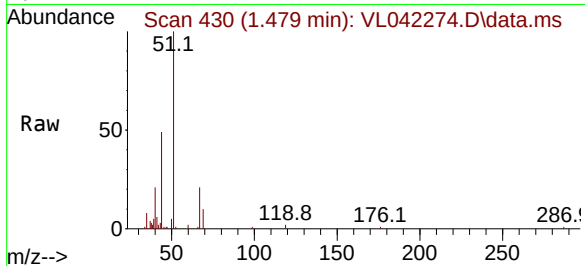




#3
Chlorodifluoromethane
Concen: 0.214 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

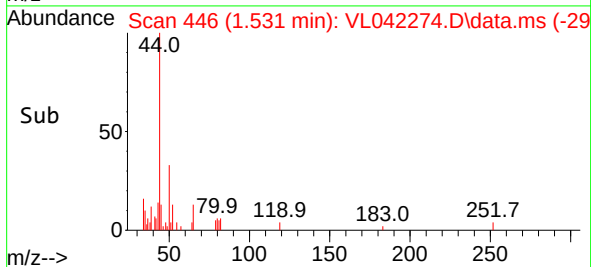
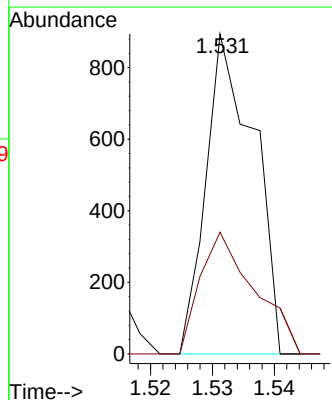
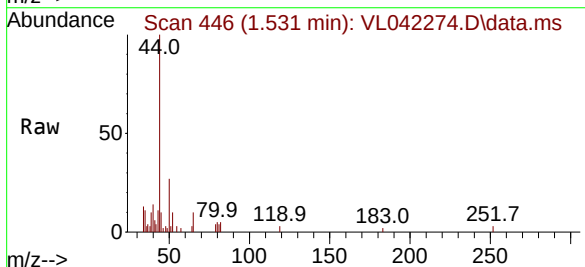
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025

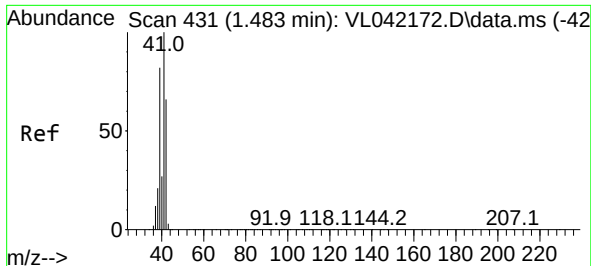
Tgt Ion: 51 Resp: 5052
Ion Ratio Lower Upper
51 100
67 15.0 15.0 22.6#



#4
Chloromethane
Concen: 0.051 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

Tgt Ion: 50 Resp: 480
Ion Ratio Lower Upper
50 100
52 38.0 26.1 39.1

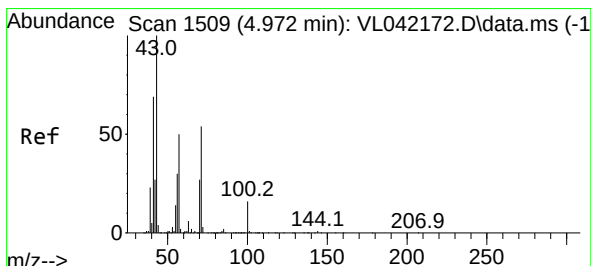
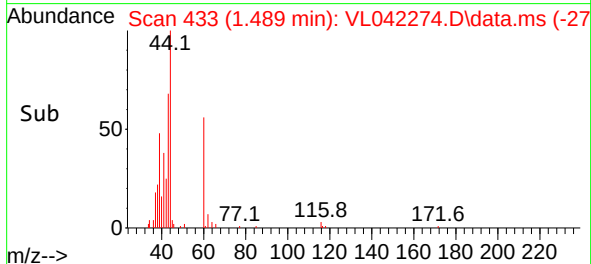
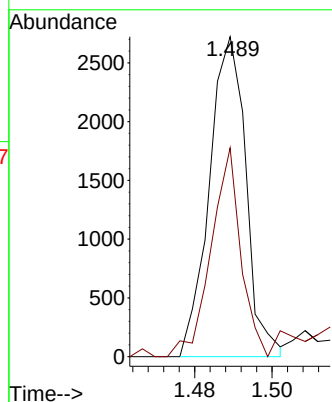
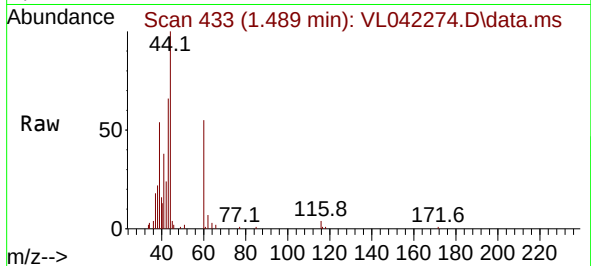




#9
Propene
Concen: 0.165 ppbv
RT: 1.489 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

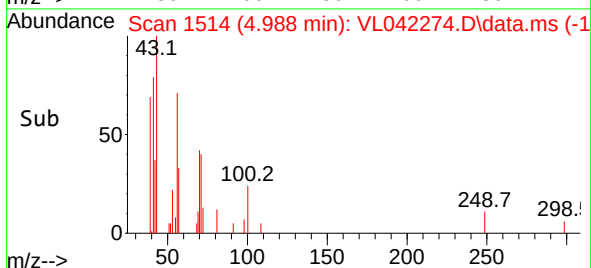
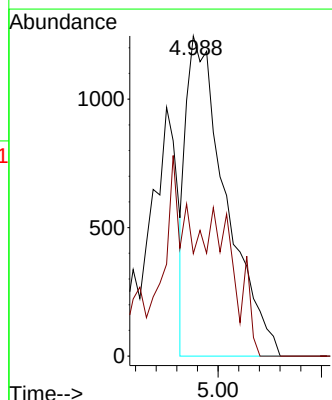
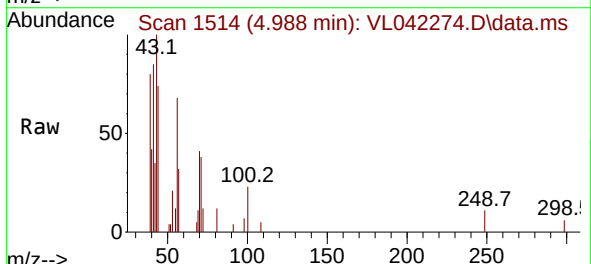
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B1-4-04012025

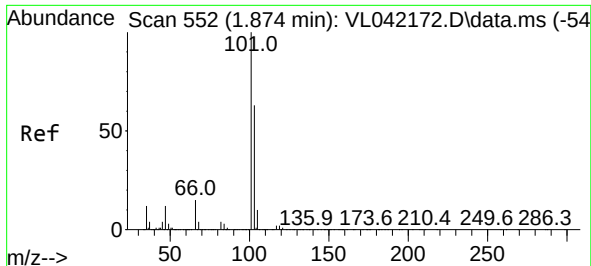
Tgt Ion: 41 Resp: 1785
Ion Ratio Lower Upper
41 100
42 64.8 55.4 83.2



#10
Heptane
Concen: 0.058 ppbv
RT: 4.988 min Scan# 1514
Delta R.T. 0.016 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

Tgt Ion: 43 Resp: 1658
Ion Ratio Lower Upper
43 100
57 0.0 39.4 59.2#

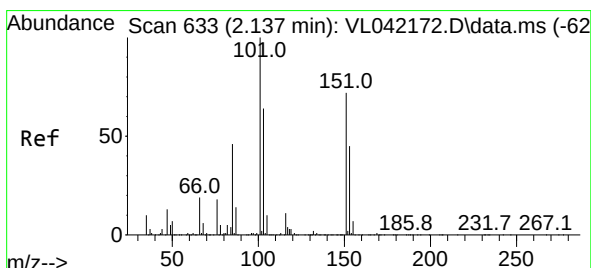
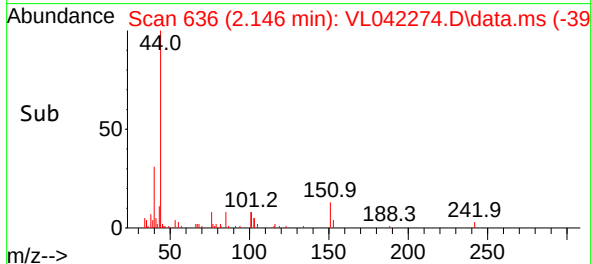
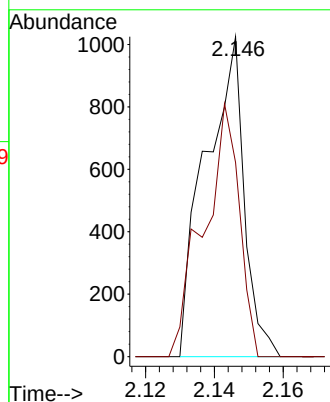
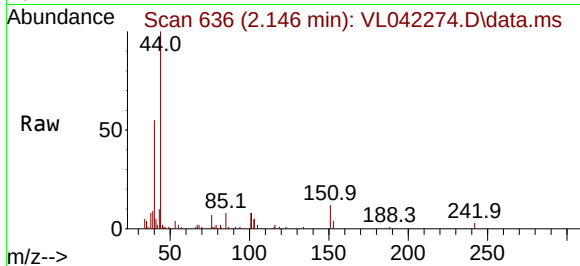




#11
 Trichlorofluoromethane
 Concen: 0.036 ppbv
 RT: 2.146 min Scan# 61
 Delta R.T. 0.272 min
 Lab File: VL042274.D
 Acq: 08 Apr 2025 22:11

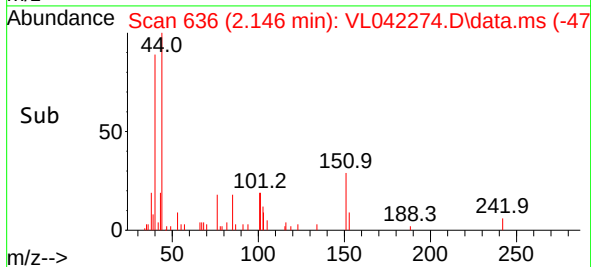
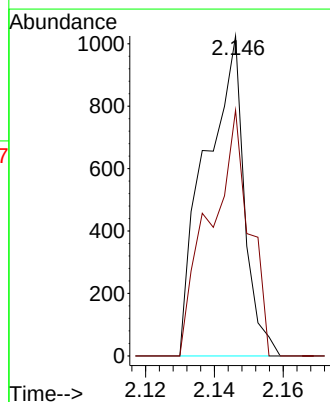
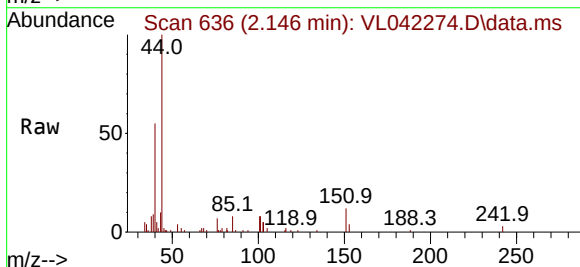
Instrument :
 MSVOA_1
 ClientSampleId :
 SSSG-B1-4-04012025

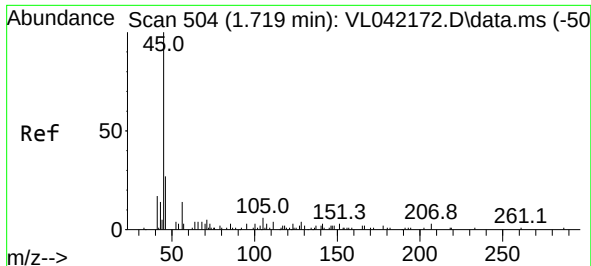
Tgt Ion:101 Resp: 800
 Ion Ratio Lower Upper
 101 100
 103 60.7 50.2 75.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.043 ppbv
 RT: 2.146 min Scan# 636
 Delta R.T. 0.010 min
 Lab File: VL042274.D
 Acq: 08 Apr 2025 22:11

Tgt Ion:101 Resp: 800
 Ion Ratio Lower Upper
 101 100
 151 78.0 57.1 85.7

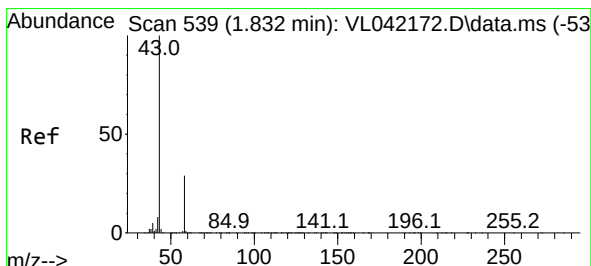
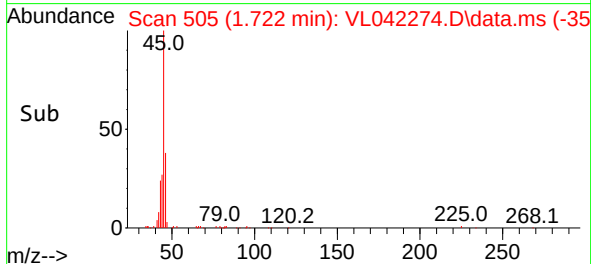
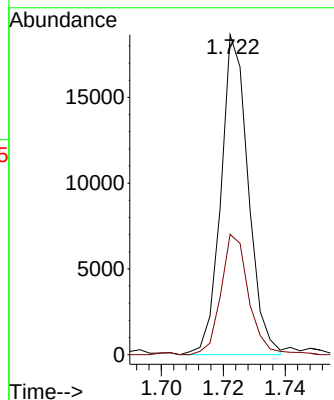
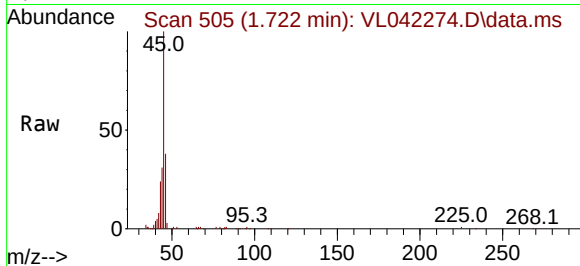




#13
Ethanol
Concen: 11.170 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

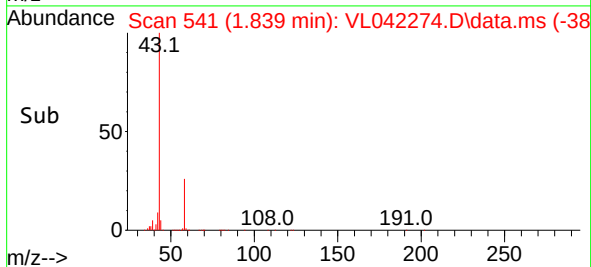
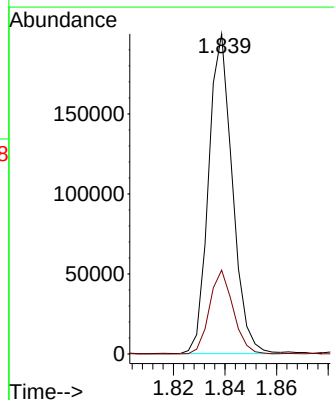
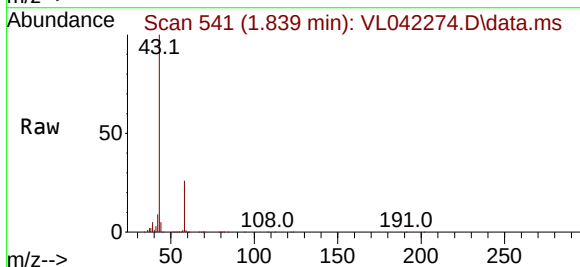
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B1-4-04012025

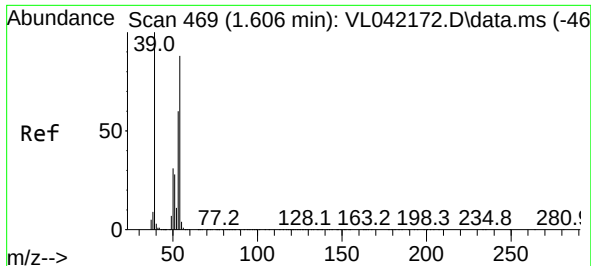
Tgt Ion: 45 Resp: 11416
Ion Ratio Lower Upper
45 100
46 38.8 20.2 80.8



#15
Acetone
Concen: 5.861 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

Tgt Ion: 43 Resp: 128185
Ion Ratio Lower Upper
43 100
58 26.5 23.2 34.8

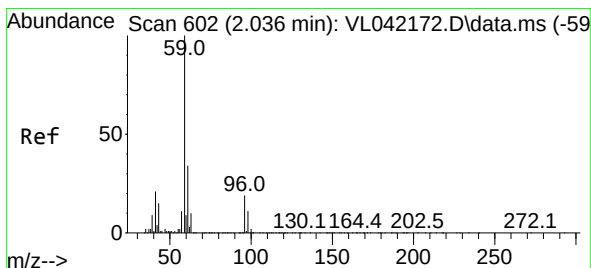
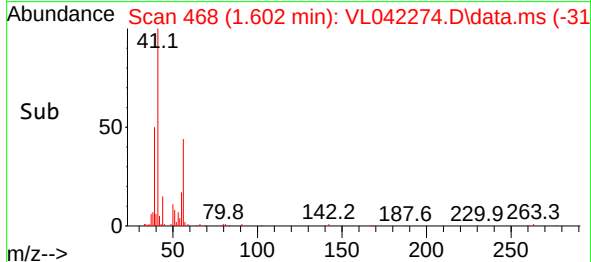
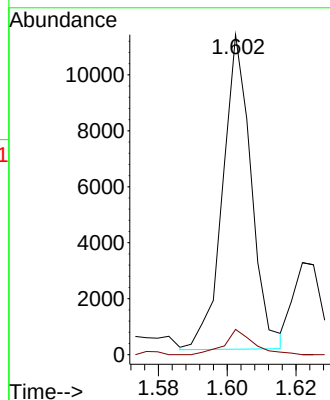
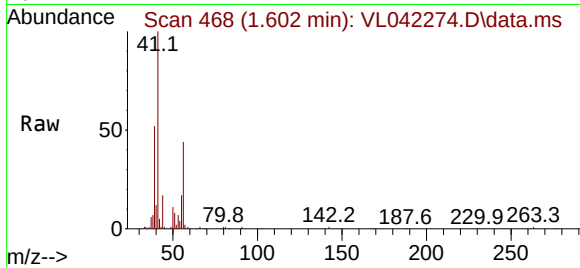




#16
1,3-Butadiene
Concen: 0.606 ppbv
RT: 1.602 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

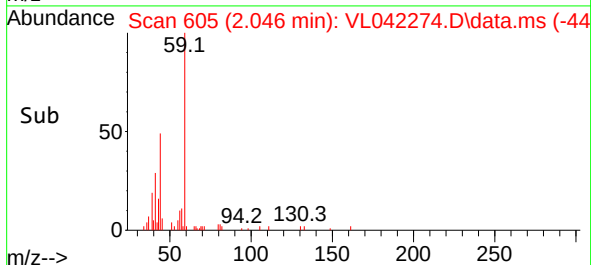
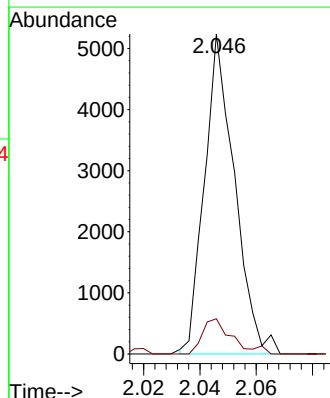
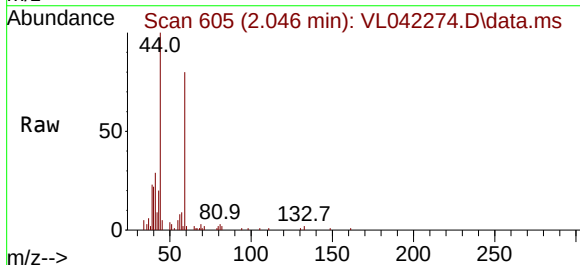
Instrument :
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ClientSampleId :
SSSG-B1-4-04012025

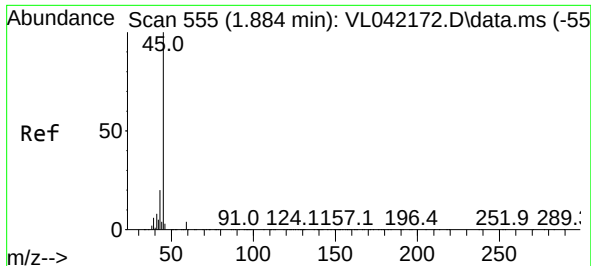
Tgt Ion: 39 Resp: 6472
Ion Ratio Lower Upper
39 100
54 9.0 60.7 91.1#



#17
tert-Butyl alcohol
Concen: 0.143 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.010 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

Tgt Ion: 59 Resp: 3888
Ion Ratio Lower Upper
59 100
57 10.8 8.9 13.3

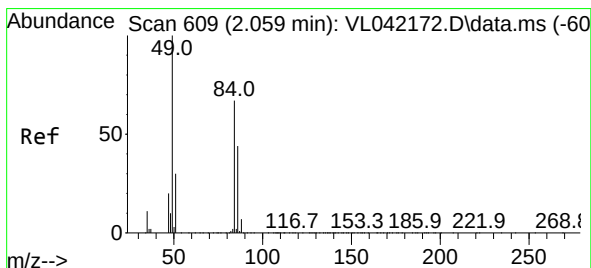
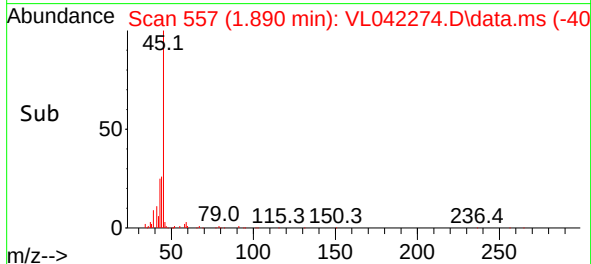
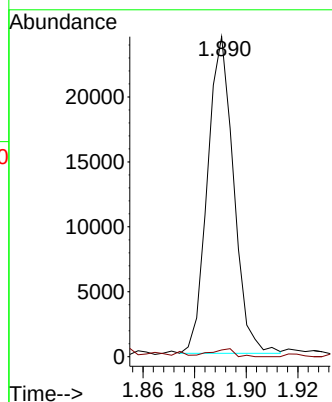
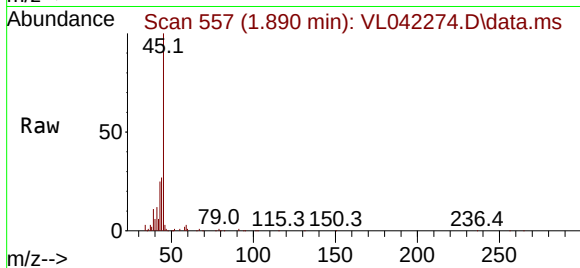




#19
Isopropyl Alcohol
Concen: 1.390 ppbv
RT: 1.890 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

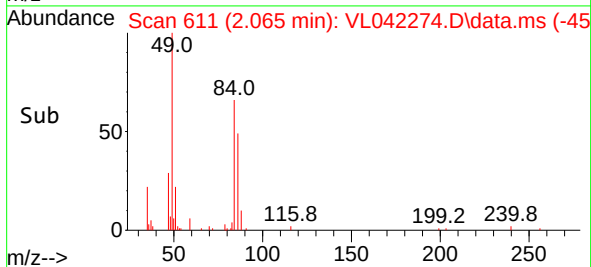
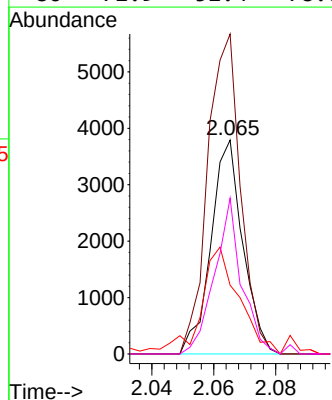
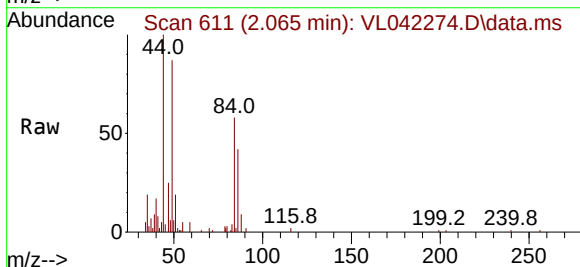
Instrument :
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ClientSampleId :
SSSG-B1-4-04012025

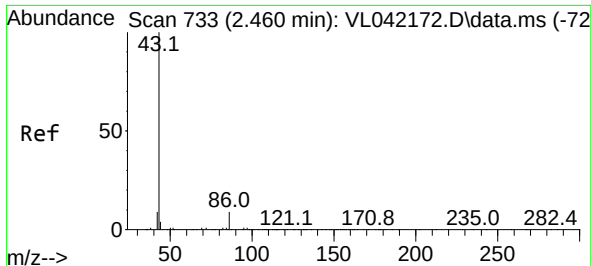
Tgt Ion: 45 Resp: 17157
Ion Ratio Lower Upper
45 100
58 198.0 36.9 55.3#



#20
Methylene Chloride
Concen: 0.333 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

Tgt Ion: 84 Resp: 2710
Ion Ratio Lower Upper
84 100
49 149.6 120.2 180.4
51 32.2 37.4 56.0#
86 72.9 52.4 78.6

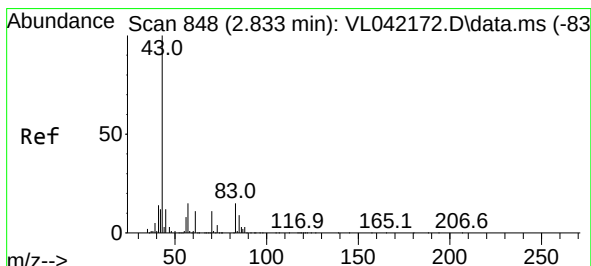
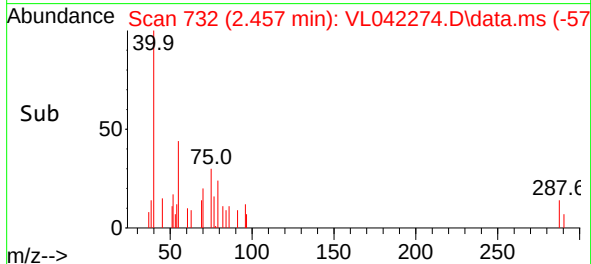
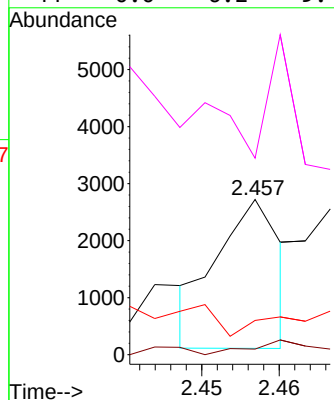
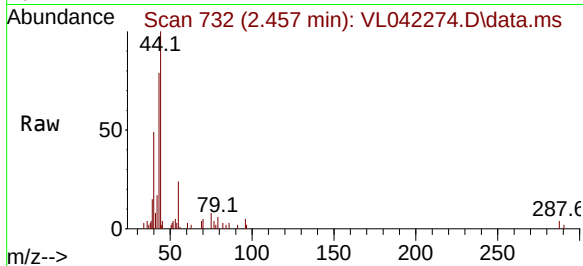




#23
 Vinyl Acetate
 Concen: 0.158 ppbv
 RT: 2.457 min Scan# 71
 Delta R.T. -0.003 min
 Lab File: VL042274.D
 Acq: 08 Apr 2025 22:11

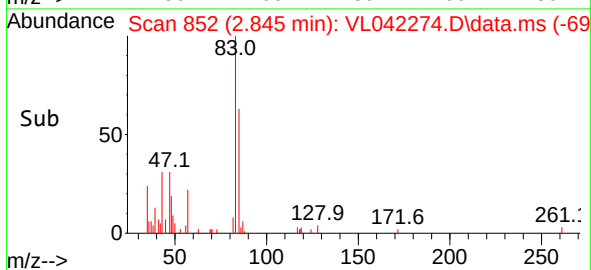
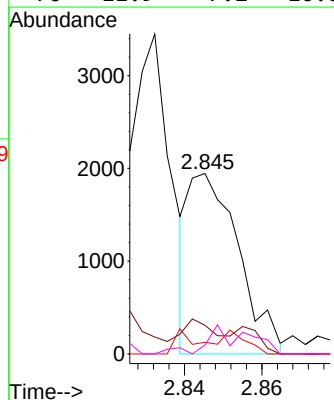
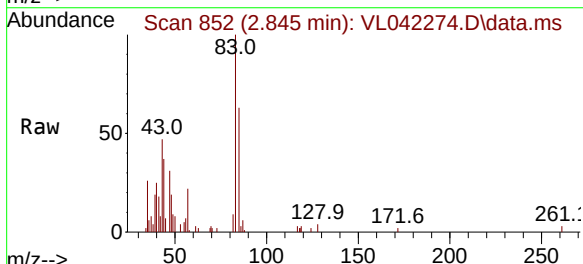
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-4-04012025

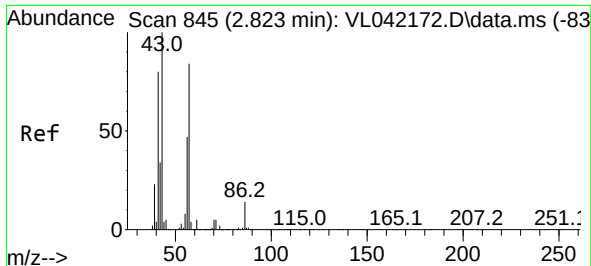
Tgt Ion: 43	Resp: 1492
Ion Ratio	Lower Upper
43 100	
86 0.0	5.5 8.3#
42 0.0	8.6 13.0#
44 0.0	6.2 9.4#



#25
 Ethyl Acetate
 Concen: 0.031 ppbv
 RT: 2.845 min Scan# 852
 Delta R.T. 0.013 min
 Lab File: VL042274.D
 Acq: 08 Apr 2025 22:11

Tgt Ion: 43	Resp: 1744
Ion Ratio	Lower Upper
43 100	
45 0.0	8.2 12.2#
61 12.3	7.3 10.9#
70 11.9	7.2 10.8#

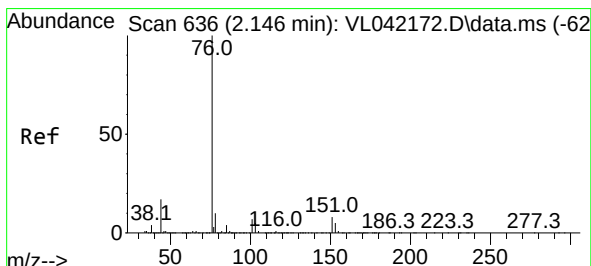
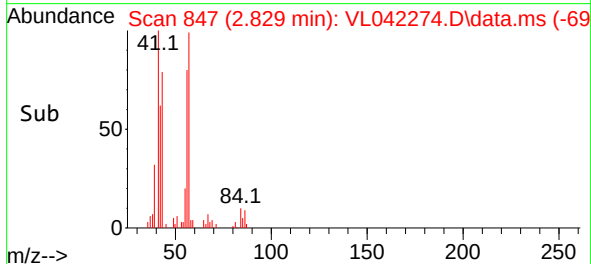
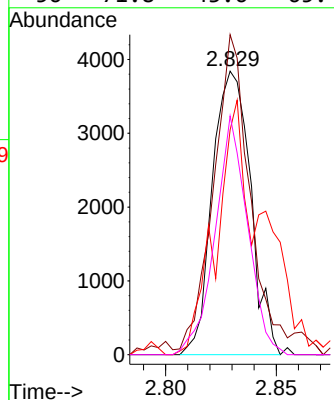
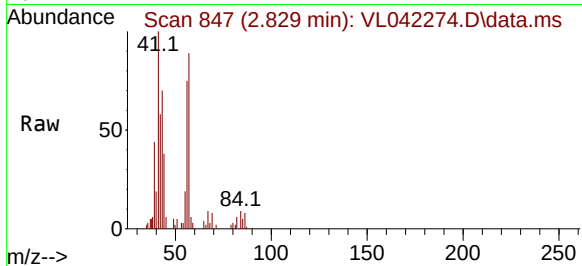




#26
Hexane
Concen: 0.210 ppbv
RT: 2.829 min Scan# 845
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

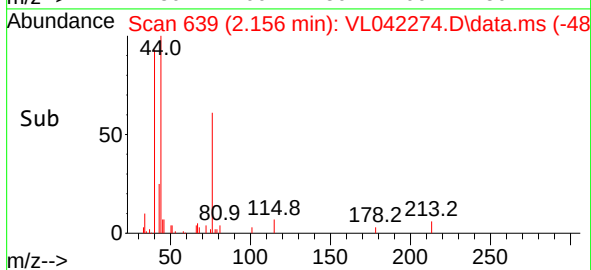
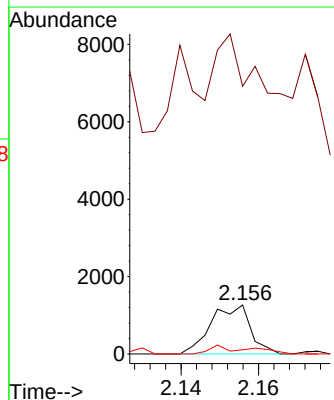
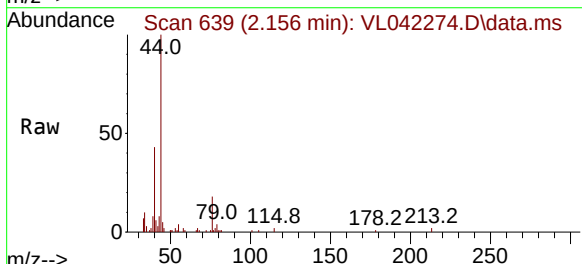
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025

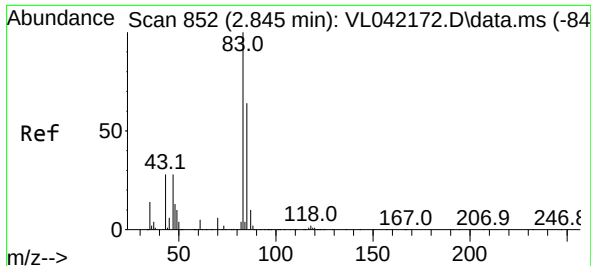
Tgt Ion: 57 Resp: 4605
Ion Ratio Lower Upper
57 100
41 114.7 76.6 114.8
43 112.7 207.8 311.8#
56 71.8 43.6 65.4#



#27
Carbon Disulfide
Concen: 0.038 ppbv
RT: 2.156 min Scan# 639
Delta R.T. 0.010 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

Tgt Ion: 76 Resp: 899
Ion Ratio Lower Upper
76 100
44 1460.4 14.7 22.1#
78 17.1 9.3 13.9#

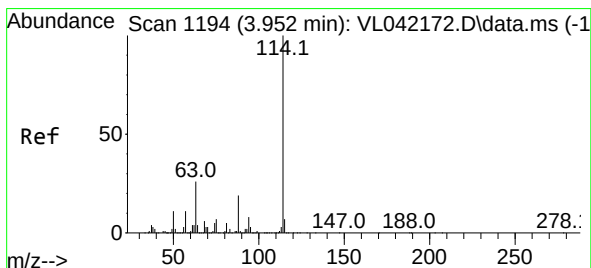
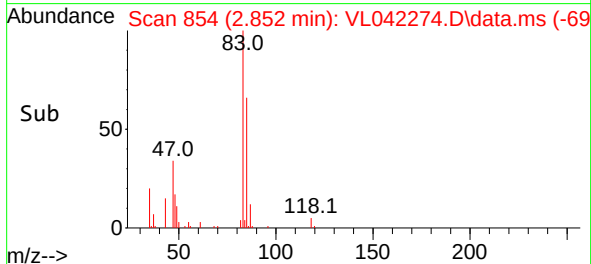
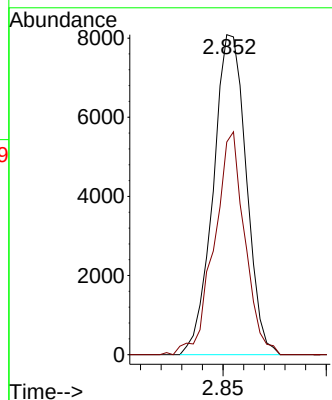
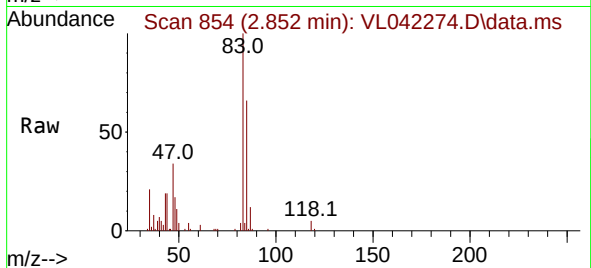




#29
Chloroform
Concen: 0.281 ppbv
RT: 2.852 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

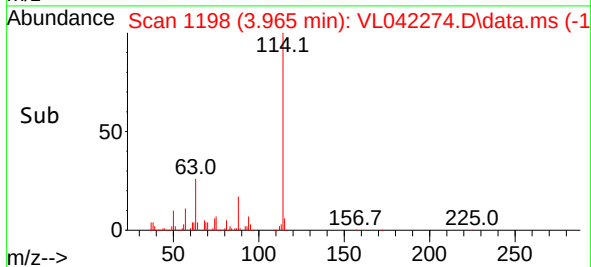
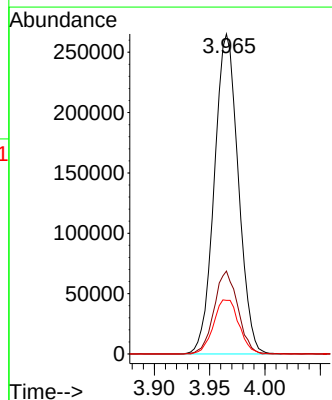
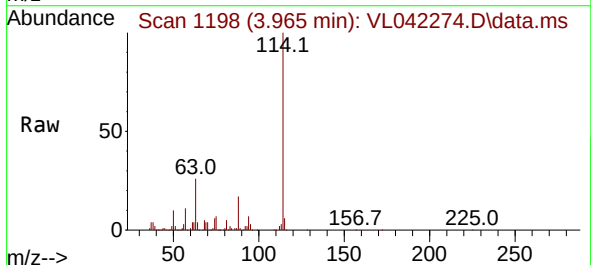
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025

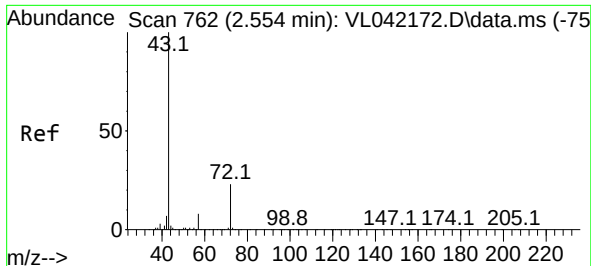
Tgt Ion: 83 Resp: 9004
Ion Ratio Lower Upper
83 100
85 66.5 51.4 77.2



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.013 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

Tgt Ion: 114 Resp: 398763
Ion Ratio Lower Upper
114 100
63 25.7 20.7 31.1
88 18.0 15.0 22.4

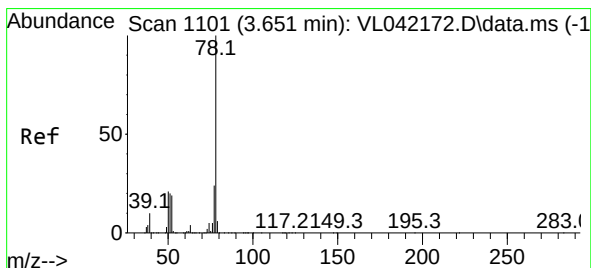
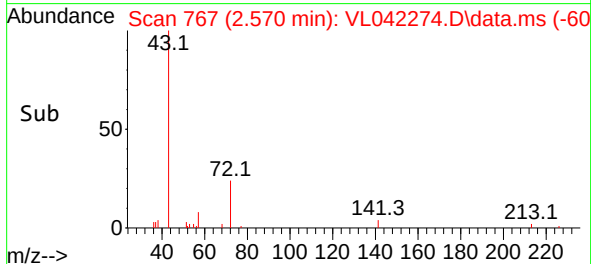
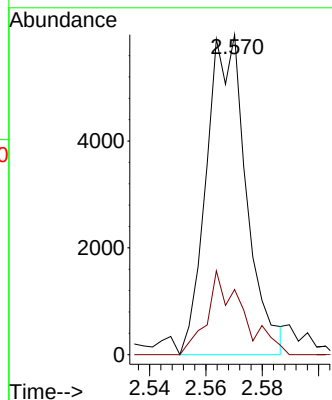
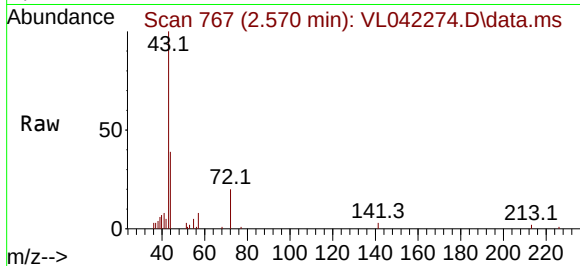




#34
2-Butanone
Concen: 0.203 ppbv
RT: 2.570 min Scan# 71
Delta R.T. 0.016 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

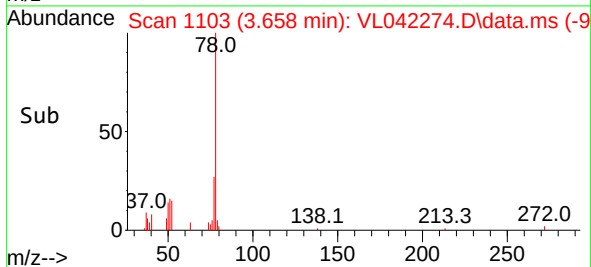
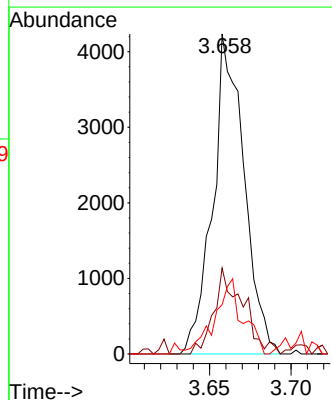
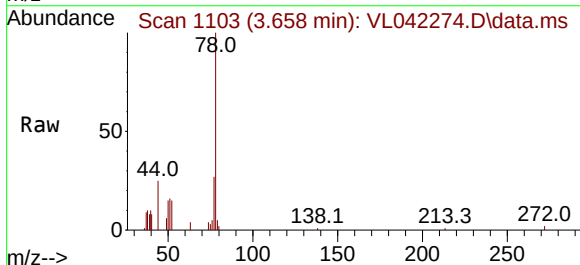
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025

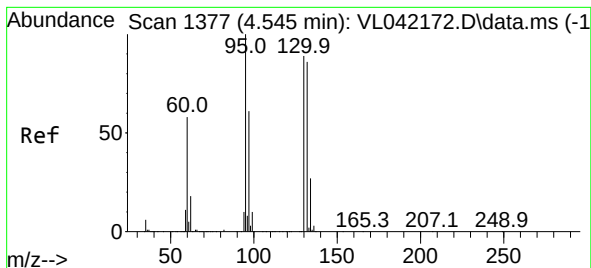
Tgt Ion: 43 Resp: 5858
Ion Ratio Lower Upper
43 100
72 23.5 18.2 27.2



#36
Benzene
Concen: 0.143 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

Tgt Ion: 78 Resp: 5637
Ion Ratio Lower Upper
78 100
77 26.8 19.1 28.7
50 14.1 16.6 24.8#





#38

Trichloroethene

Concen: 0.052 ppbv

RT: 4.557 min Scan# 1198

Delta R.T. 0.013 min

Lab File: VL042274.D

Acq: 08 Apr 2025 22:11

Instrument :

MSVOA_1

ClientSampleId :

SSSG-B1-4-04012025

Tgt Ion:130 Resp: 854

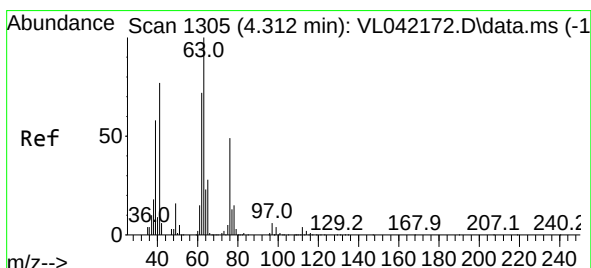
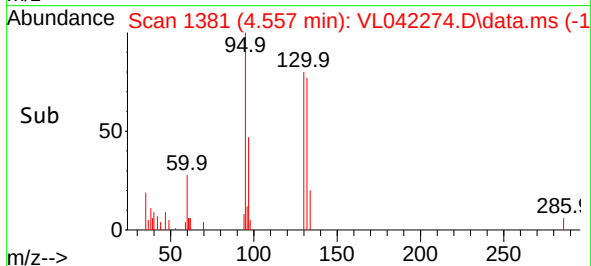
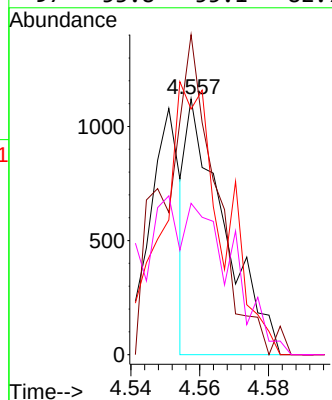
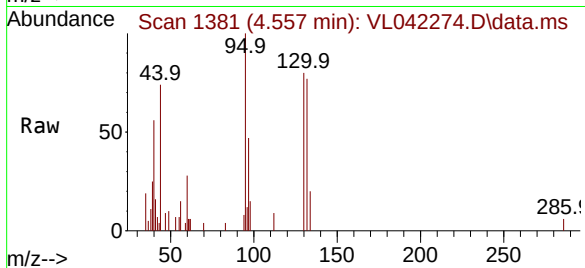
Ion Ratio Lower Upper

130 100

95 113.9 89.8 134.8

132 96.0 77.4 116.2

97 53.8 55.1 82.7#



#39

1,2-Dichloropropane

Concen: 7.112 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. -0.346 min

Lab File: VL042274.D

Acq: 08 Apr 2025 22:11

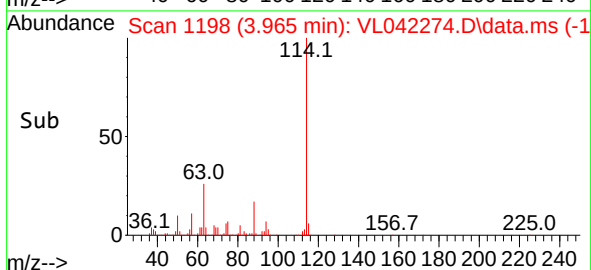
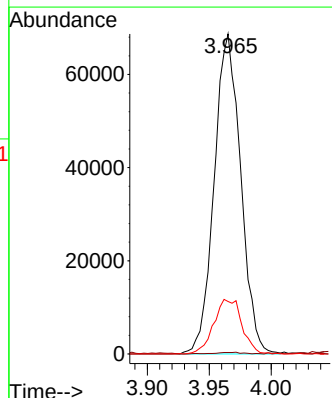
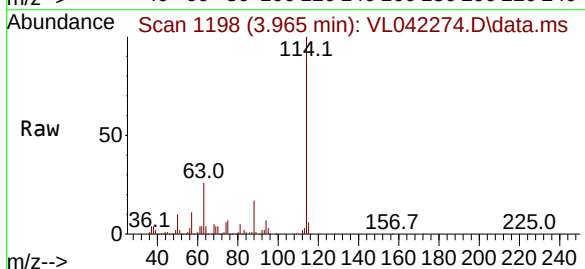
Tgt Ion: 63 Resp: 102394

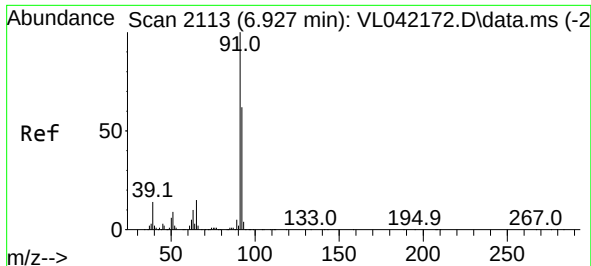
Ion Ratio Lower Upper

63 100

41 0.6 61.7 92.5#

62 16.3 57.6 86.4#

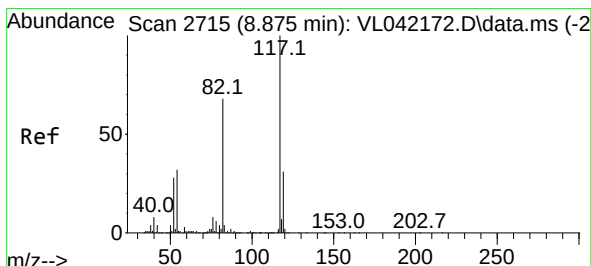
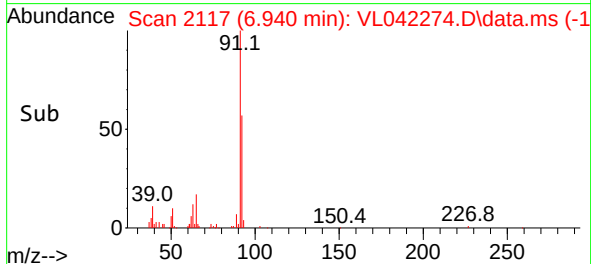
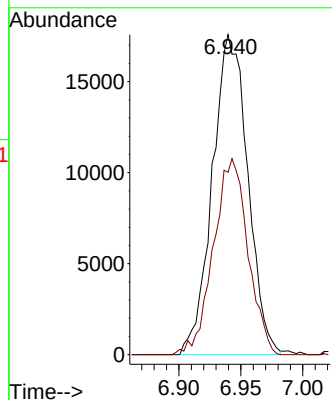
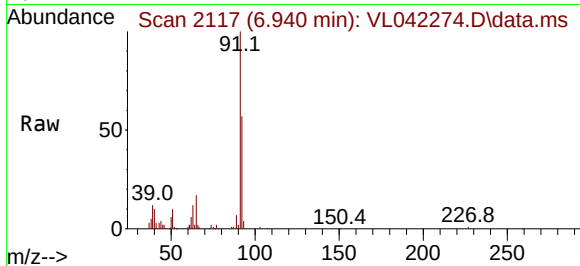




#53
Toluene
Concen: 0.746 ppbv
RT: 6.940 min Scan# 2113
Delta R.T. 0.013 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

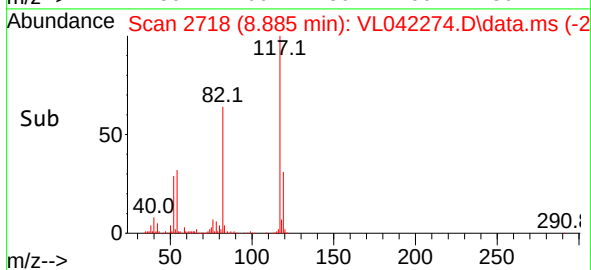
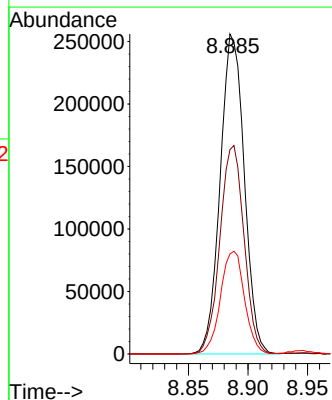
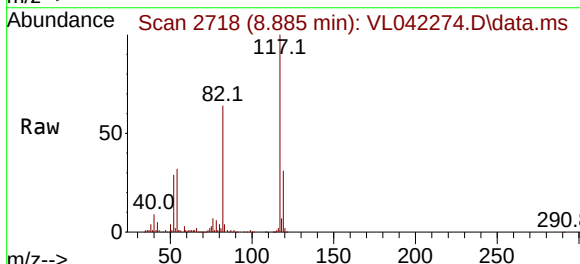
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025

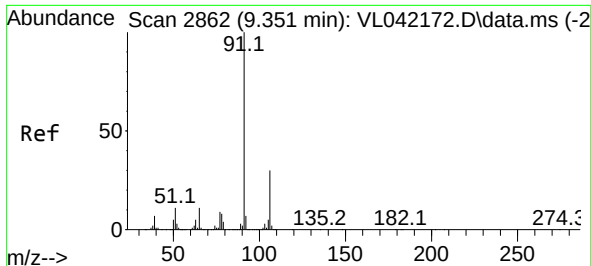
Tgt Ion: 91 Resp: 34973
Ion Ratio Lower Upper
91 100
92 59.7 48.4 72.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.010 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

Tgt Ion: 117 Resp: 359554
Ion Ratio Lower Upper
117 100
82 65.6 55.8 83.6
119 32.2 25.5 38.3

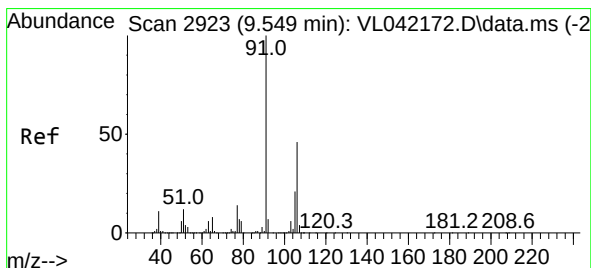
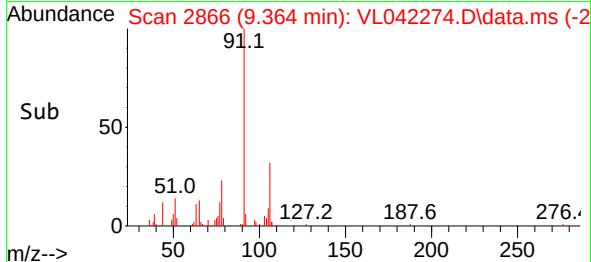
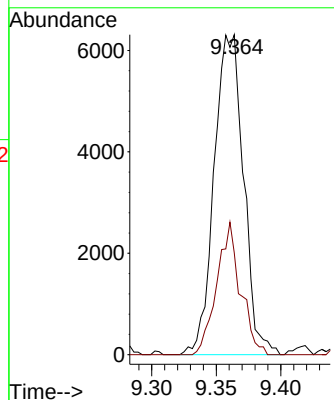
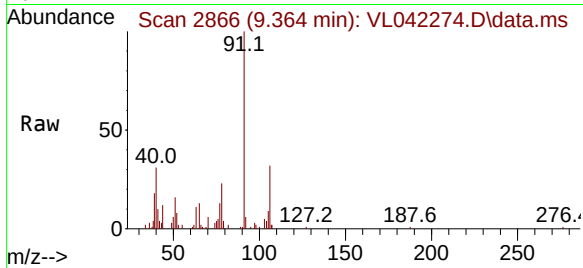




#58
Ethyl Benzene
Concen: 0.157 ppbv
RT: 9.364 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

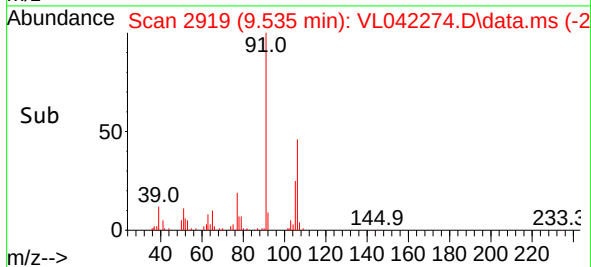
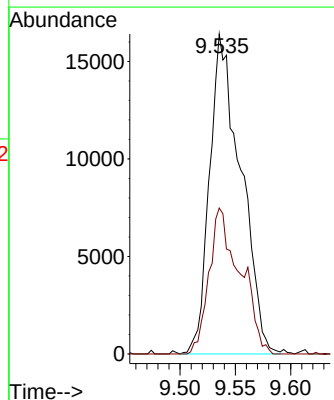
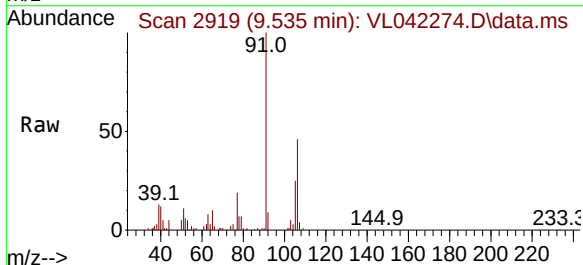
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025

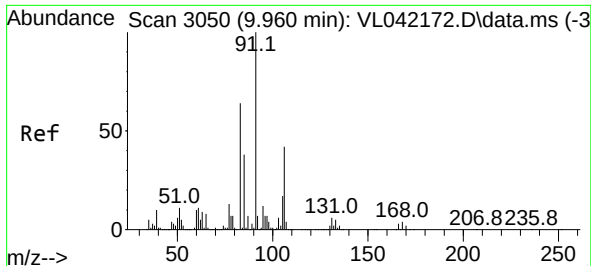
Tgt Ion: 91 Resp: 10002
Ion Ratio Lower Upper
91 100
106 31.8 24.2 36.2



#59
m/p-Xylene
Concen: 0.631 ppbv
RT: 9.535 min Scan# 2919
Delta R.T. -0.013 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

Tgt Ion: 91 Resp: 32175
Ion Ratio Lower Upper
91 100
106 45.3 36.4 54.6

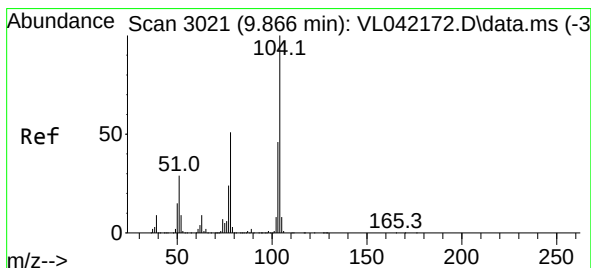
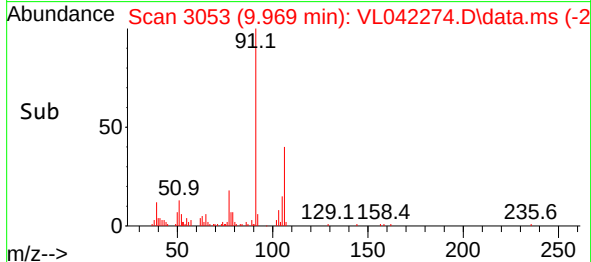
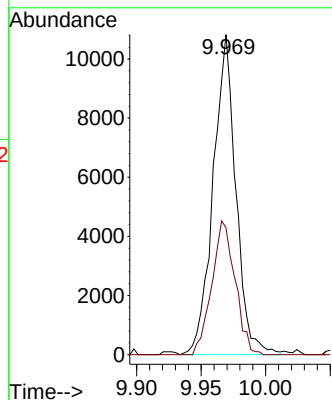
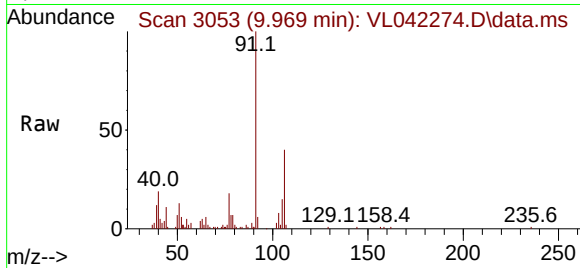




#60
o-Xylene
Concen: 0.259 ppbv
RT: 9.969 min Scan# 3050
Delta R.T. 0.010 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

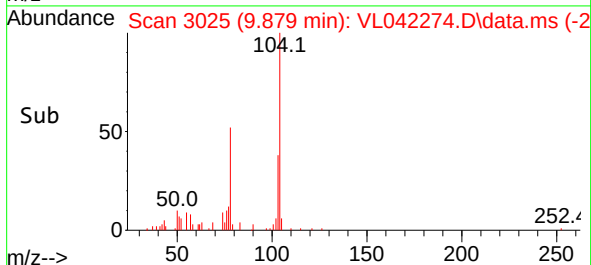
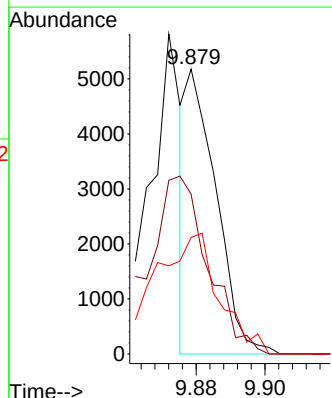
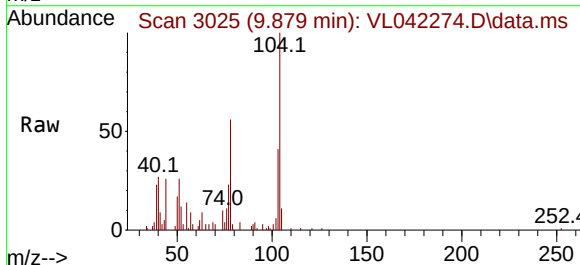
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025

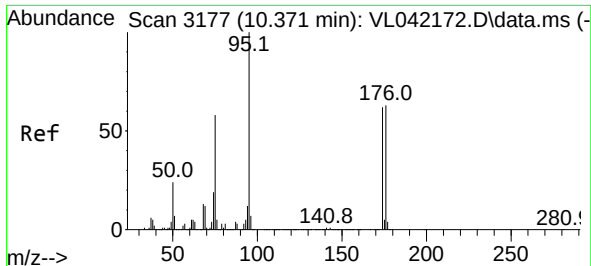
Tgt Ion: 91 Resp: 13256
Ion Ratio Lower Upper
91 100
106 42.7 20.8 62.5



#61
Styrene
Concen: 0.123 ppbv
RT: 9.879 min Scan# 3025
Delta R.T. 0.013 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

Tgt Ion: 104 Resp: 3116
Ion Ratio Lower Upper
104 100
78 127.5 41.8 62.6#
103 94.6 37.0 55.4#

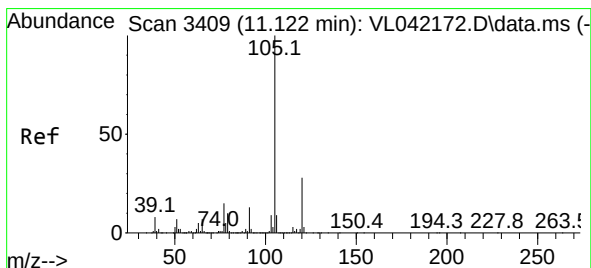
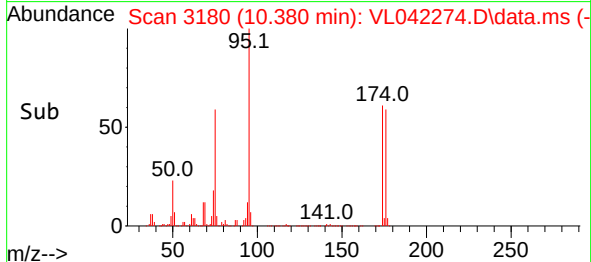
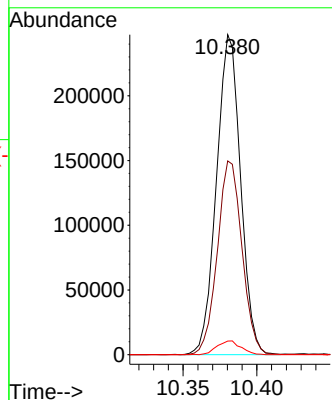
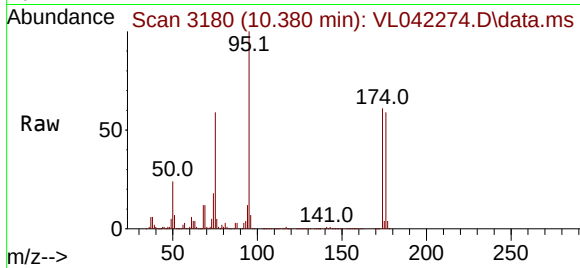




#68
1-Bromo-4-Fluorobenzene
Concen: 9.520 ppbv
RT: 10.380 min Scan# 3177
Delta R.T. 0.010 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

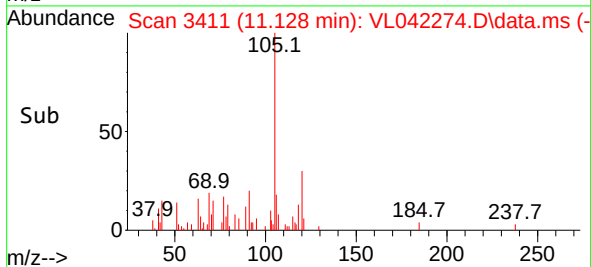
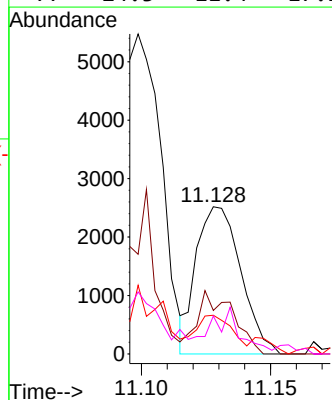
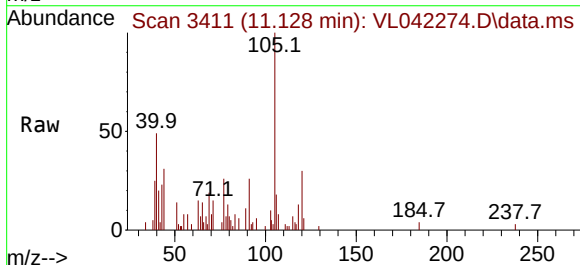
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-4-04012025

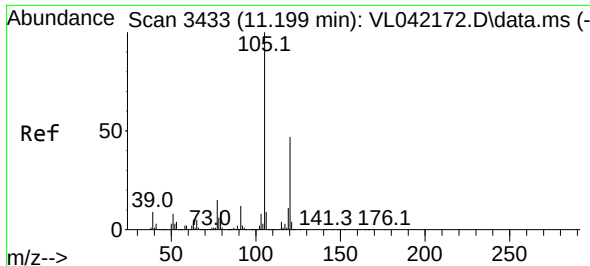
Tgt Ion: 95 Resp: 281110
Ion Ratio Lower Upper
95 100
174 62.0 50.6 76.0
175 4.3 3.8 5.6



#72
4-Ethyltoluene
Concen: 0.048 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.006 min
Lab File: VL042274.D
Acq: 08 Apr 2025 22:11

Tgt Ion: 105 Resp: 3026
Ion Ratio Lower Upper
105 100
120 0.0 23.4 35.0#
91 0.0 10.3 15.5#
77 24.3 11.4 17.2#

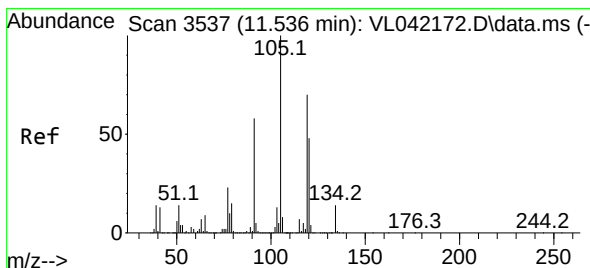
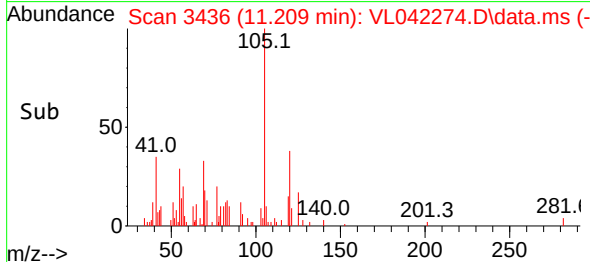
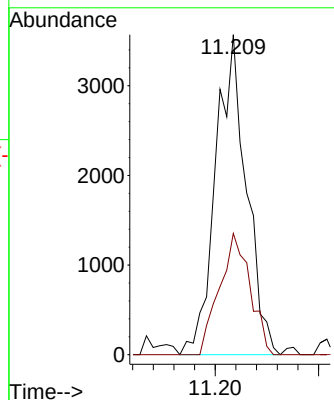
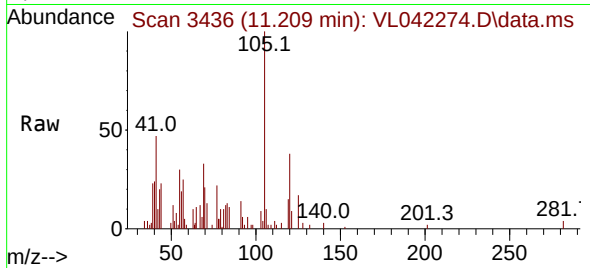




#73
 1,3,5-Trimethylbenzene
 Concen: 0.066 ppbv
 RT: 11.209 min Scan# 3436
 Delta R.T. 0.010 min
 Lab File: VL042274.D
 Acq: 08 Apr 2025 22:11

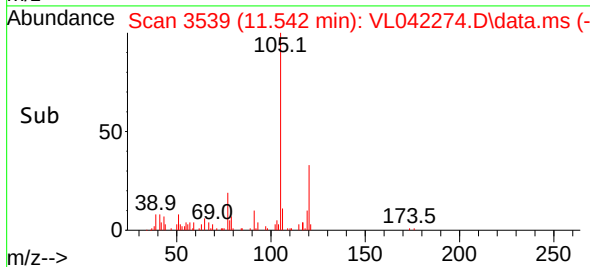
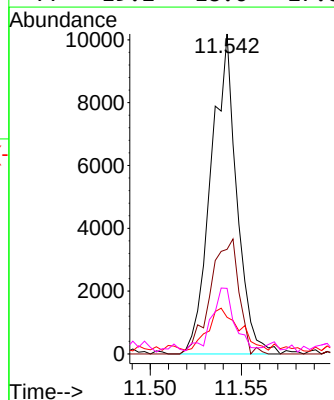
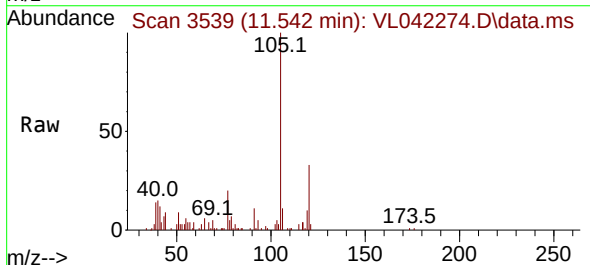
Instrument :
 MSVOA_1
 ClientSampleId :
 SSSG-B1-4-04012025

Tgt Ion:105 Resp: 3685
 Ion Ratio Lower Upper
 105 100
 120 37.9 37.4 56.0



#74
 1,2,4-Trimethylbenzene
 Concen: 0.156 ppbv
 RT: 11.542 min Scan# 3539
 Delta R.T. 0.006 min
 Lab File: VL042274.D
 Acq: 08 Apr 2025 22:11

Tgt Ion:105 Resp: 9995
 Ion Ratio Lower Upper
 105 100
 120 32.7 38.6 58.0#
 91 9.8 46.2 69.2#
 77 19.2 18.6 27.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042275.D
 Acq On : 08 Apr 2025 22:42
 Operator : SY/MD
 Sample : Q1728-12 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-3-04012025

Quant Time: Apr 09 02:01:29 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

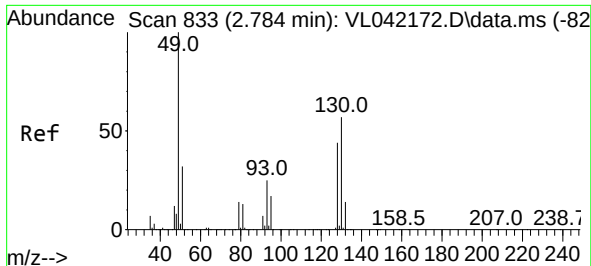
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.794	49	160295	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	399383	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.891	117	355820	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	276732	9.470	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	5426	0.229	ppbv #	77
3) Chlorodifluoromethane	1.606	51	2012	0.083	ppbv	99
4) Chloromethane	1.534	50	1118	0.116	ppbv	100
9) Propene	1.486	41	2314	0.209	ppbv	88
11) Trichlorofluoromethane	1.884	101	2674	0.116	ppbv	90
13) Ethanol	1.725	45	12651	12.076	ppbv	89
15) Acetone	1.839	43	228835	10.208	ppbv	96
16) 1,3-Butadiene	1.602	39	12463	1.138	ppbv #	20
17) tert-Butyl alcohol	2.046	59	6274	0.225	ppbv	95
19) Isopropyl Alcohol	1.890	45	90023	7.117	ppbv #	67
20) Methylene Chloride	2.065	84	9525	1.141	ppbv #	91
21) Allyl Chloride	2.049	41	2138	0.135	ppbv #	85
23) Vinyl Acetate	2.463	43	2691	0.277	ppbv #	66
25) Ethyl Acetate	2.832	43	6826	0.117	ppbv #	81
26) Hexane	2.836	57	7214	0.321	ppbv #	33
29) Chloroform	2.855	83	101229	3.078	ppbv	95
34) 2-Butanone	2.570	43	7264	0.251	ppbv	95
36) Benzene	3.667	78	4760	0.120	ppbv #	93
39) 1,2-Dichloropropane	3.968	63	103082	7.149	ppbv #	23
53) Toluene	6.953	91	7934	0.169	ppbv #	1
58) Ethyl Benzene	9.364	91	6292	0.100	ppbv	92
59) m/p-Xylene	9.558	91	3961	0.078	ppbv #	31
60) o-Xylene	9.972	91	7001	0.138	ppbv	94
61) Styrene	9.879	104	1302	0.052	ppbv #	86
72) 4-Ethyltoluene	11.131	105	2178	0.035	ppbv #	60
73) 1,3,5-Trimethylbenzene	11.212	105	1937	0.035	ppbv	95
74) 1,2,4-Trimethylbenzene	11.542	105	7204	0.114	ppbv #	67

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

Quant Time: Apr 09 02:01:29 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

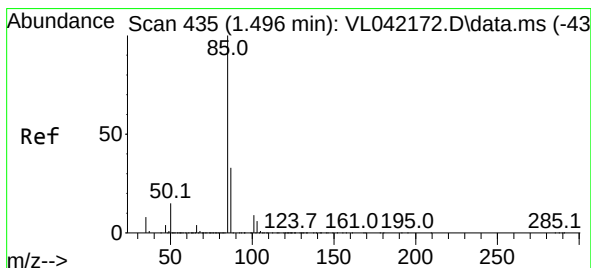
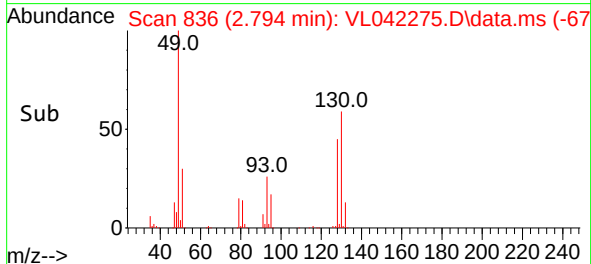
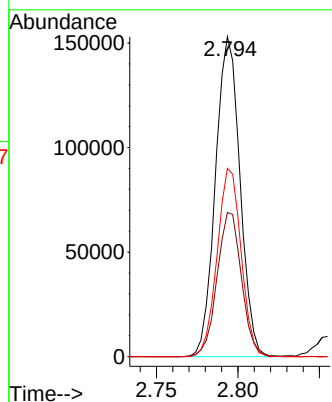
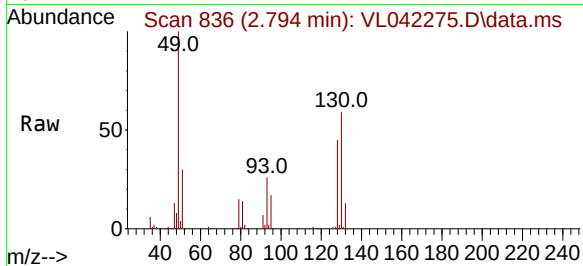




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

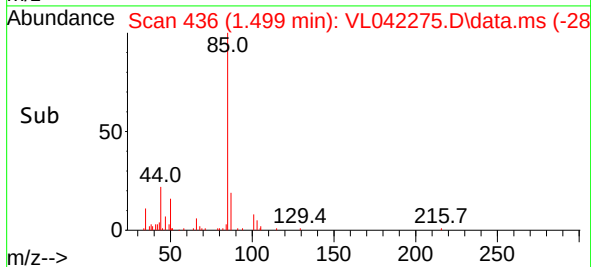
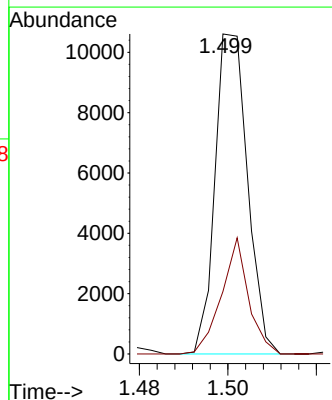
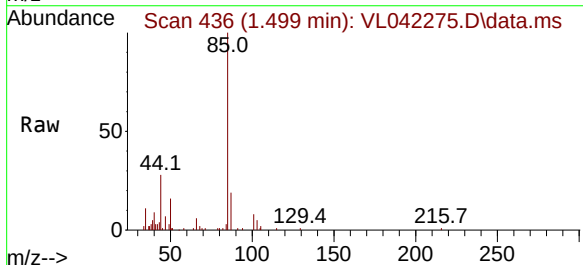
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-3-04012025

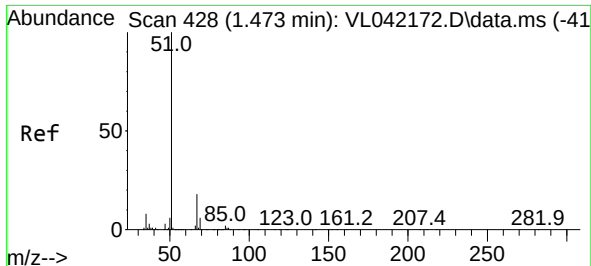
Tgt Ion: 49 Resp: 160295
Ion Ratio Lower Upper
49 100
128 44.6 22.9 68.5
130 57.4 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.229 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

Tgt Ion: 85 Resp: 5426
Ion Ratio Lower Upper
85 100
87 19.5 26.1 39.1#

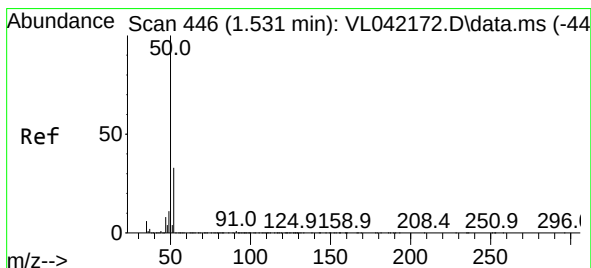
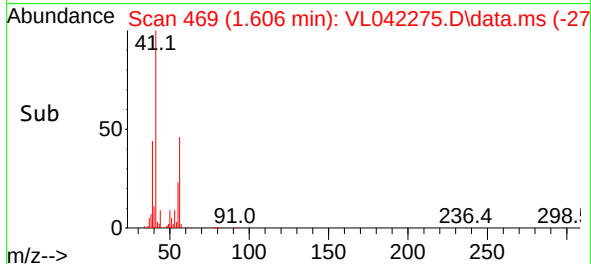
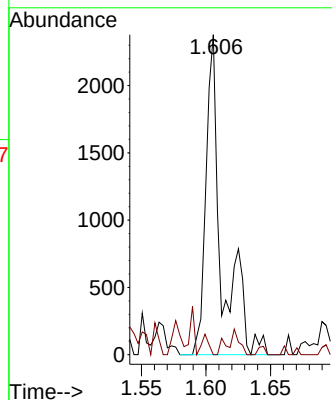
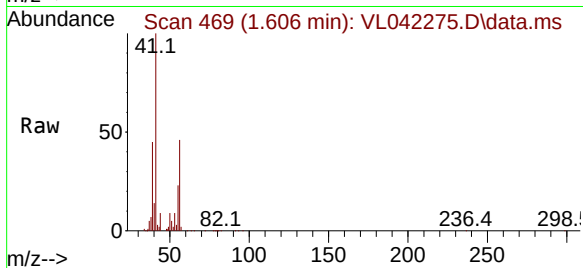




#3
Chlorodifluoromethane
Concen: 0.083 ppbv
RT: 1.606 min Scan# 41
Delta R.T. 0.133 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

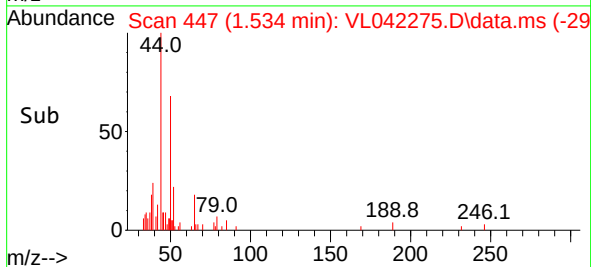
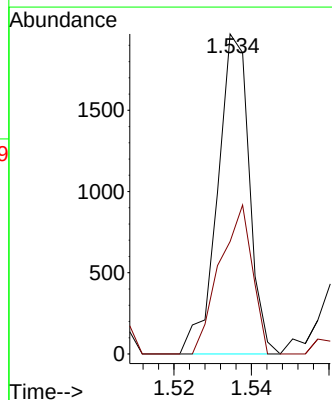
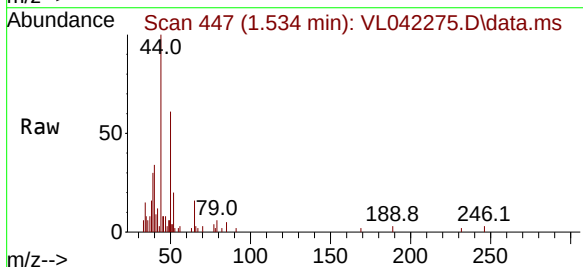
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B1-3-04012025

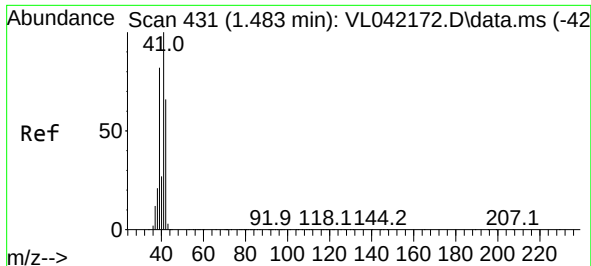
Tgt Ion: 51 Resp: 2012
Ion Ratio Lower Upper
51 100
67 19.4 15.0 22.6



#4
Chloromethane
Concen: 0.116 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

Tgt Ion: 50 Resp: 1118
Ion Ratio Lower Upper
50 100
52 32.8 26.1 39.1





#9

Propene

Concen: 0.209 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042275.D

Acq: 08 Apr 2025 22:42

Instrument :

MSVOA_L

ClientSampleId :

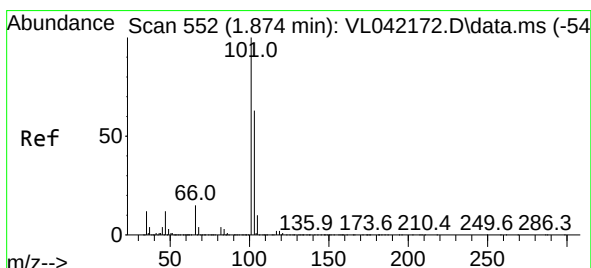
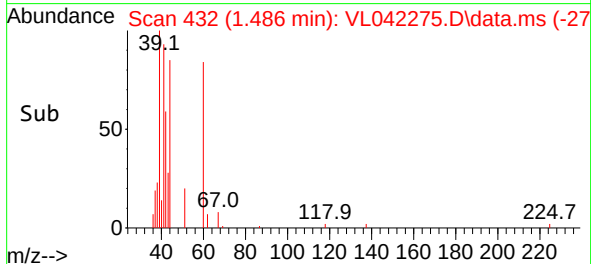
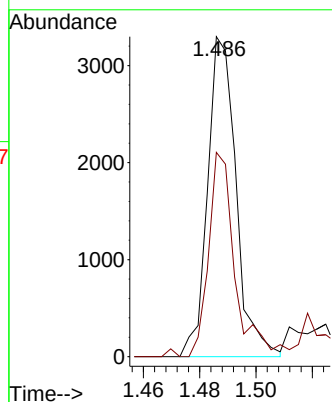
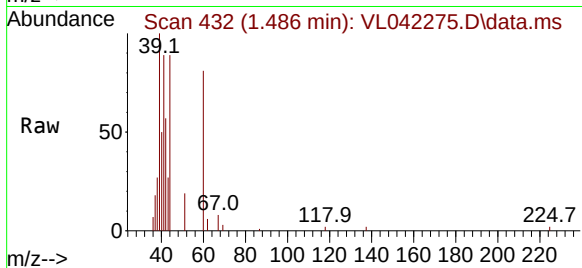
SSSG-B1-3-04012025

Tgt Ion: 41 Resp: 2314

Ion Ratio Lower Upper

41 100

42 59.7 55.4 83.2



#11

Trichlorofluoromethane

Concen: 0.116 ppbv

RT: 1.884 min Scan# 555

Delta R.T. 0.010 min

Lab File: VL042275.D

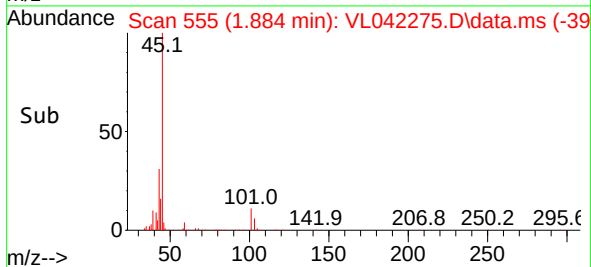
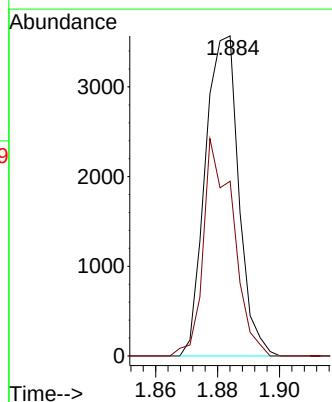
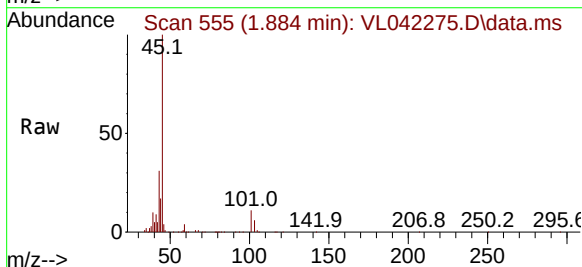
Acq: 08 Apr 2025 22:42

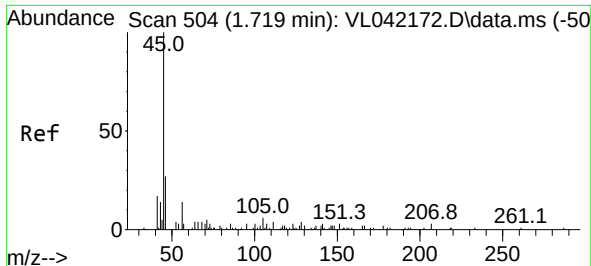
Tgt Ion:101 Resp: 2674

Ion Ratio Lower Upper

101 100

103 54.6 50.2 75.2

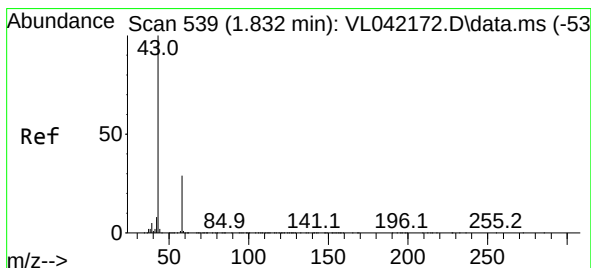
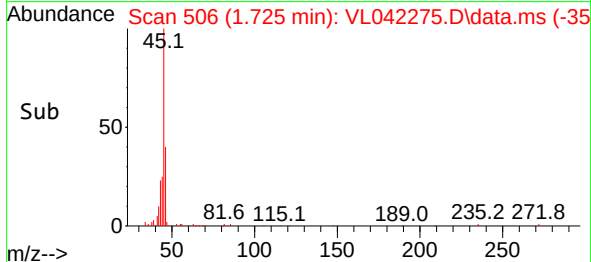
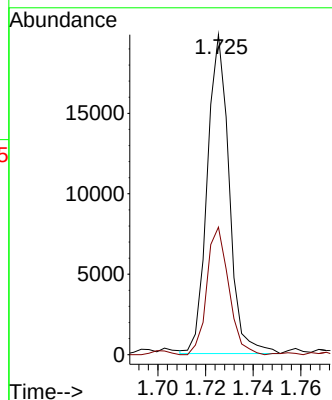
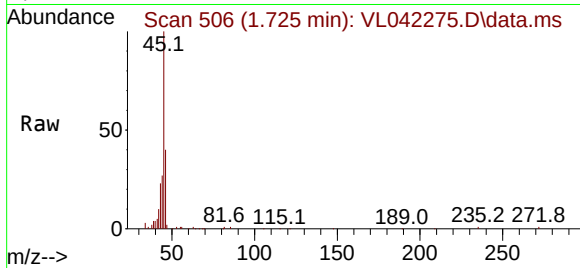




#13
 Ethanol
 Concen: 12.076 ppbv
 RT: 1.725 min Scan# 504
 Delta R.T. 0.006 min
 Lab File: VL042275.D
 Acq: 08 Apr 2025 22:42

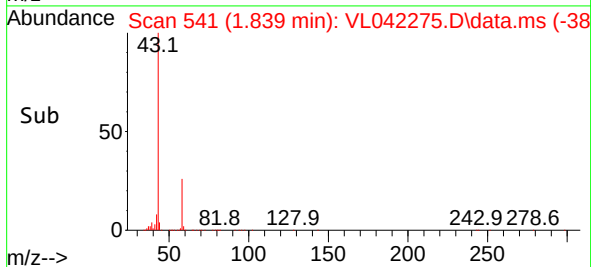
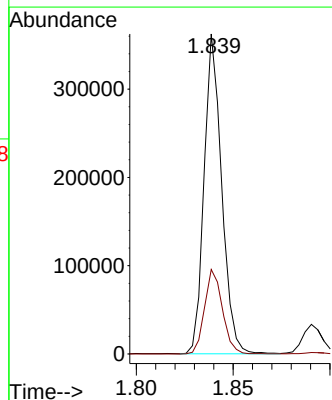
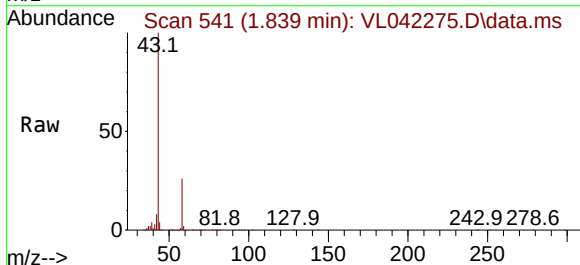
Instrument :
 MSVOA_1
 ClientSampleId :
 SSSG-B1-3-04012025

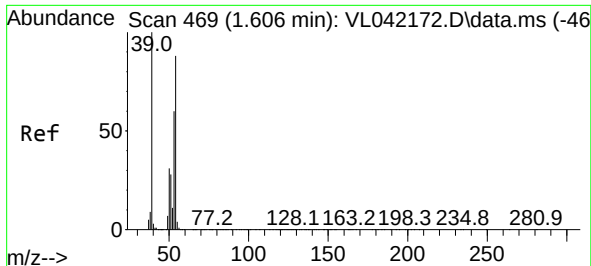
Tgt Ion: 45 Resp: 12651
 Ion Ratio Lower Upper
 45 100
 46 42.5 20.2 80.8



#15
 Acetone
 Concen: 10.208 ppbv
 RT: 1.839 min Scan# 541
 Delta R.T. 0.006 min
 Lab File: VL042275.D
 Acq: 08 Apr 2025 22:42

Tgt Ion: 43 Resp: 228835
 Ion Ratio Lower Upper
 43 100
 58 26.8 23.2 34.8

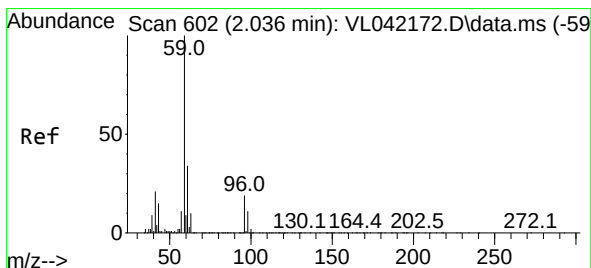
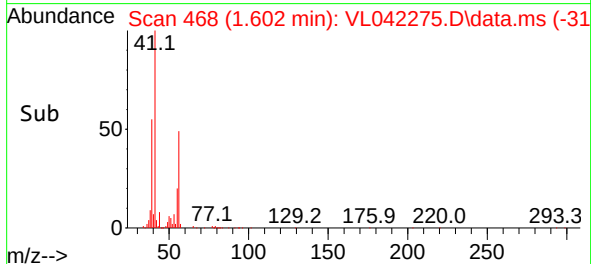
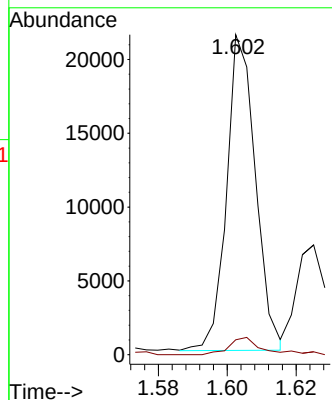
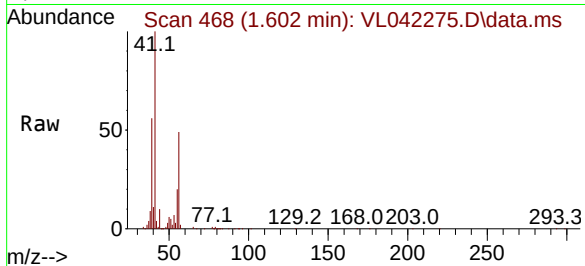




#16
1,3-Butadiene
Concen: 1.138 ppbv
RT: 1.602 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

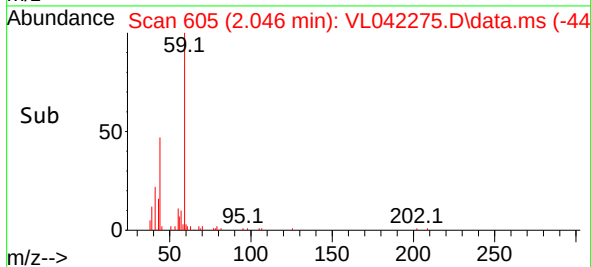
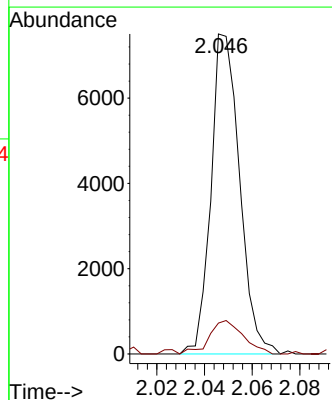
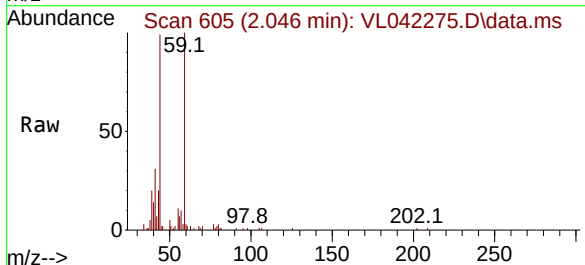
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B1-3-04012025

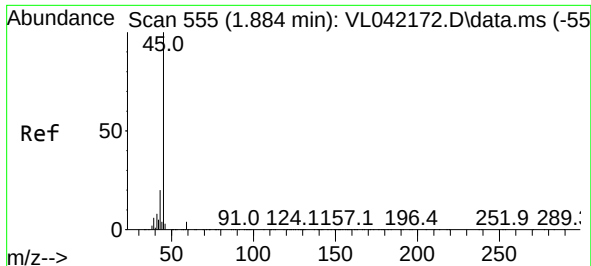
Tgt Ion: 39 Resp: 12463
Ion Ratio Lower Upper
39 100
54 7.7 60.7 91.1#



#17
tert-Butyl alcohol
Concen: 0.225 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.010 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

Tgt Ion: 59 Resp: 6274
Ion Ratio Lower Upper
59 100
57 13.1 8.9 13.3

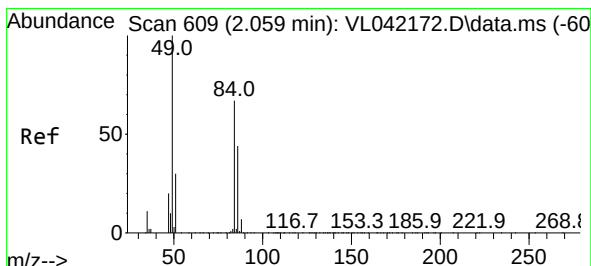
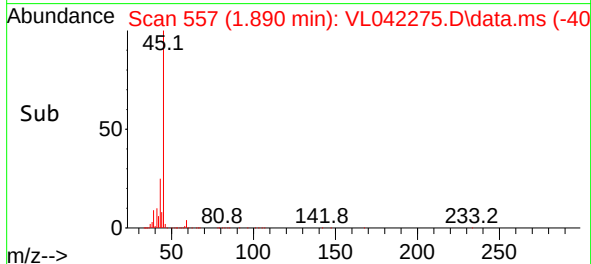
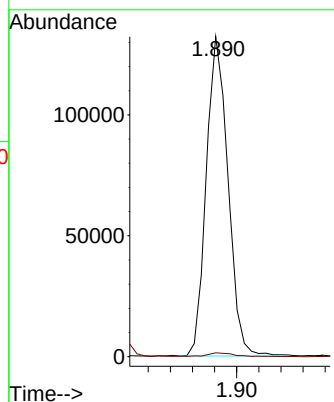
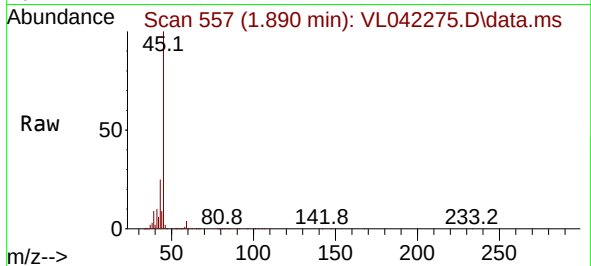




#19
Isopropyl Alcohol
Concen: 7.117 ppbv
RT: 1.890 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

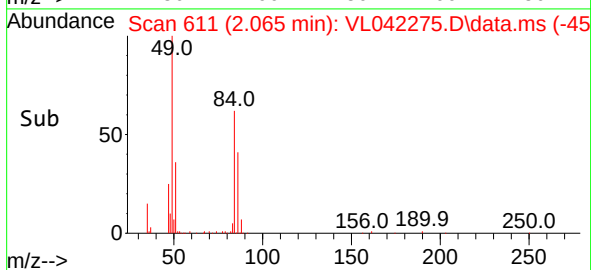
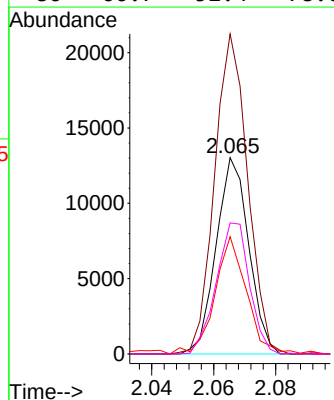
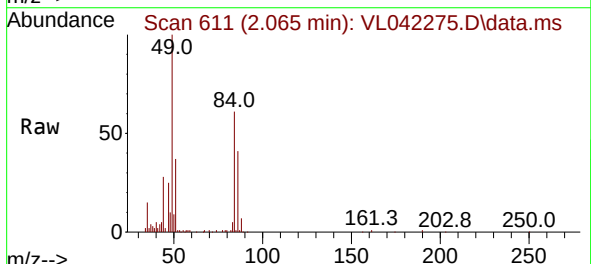
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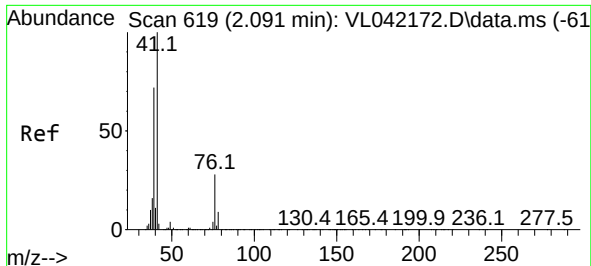
Tgt Ion: 45 Resp: 90023
Ion Ratio Lower Upper
45 100
58 68.1 36.9 55.3#



#20
Methylene Chloride
Concen: 1.141 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

Tgt Ion: 84 Resp: 9525
Ion Ratio Lower Upper
84 100
49 162.1 120.2 180.4
51 58.4 37.4 56.0#
86 66.7 52.4 78.6

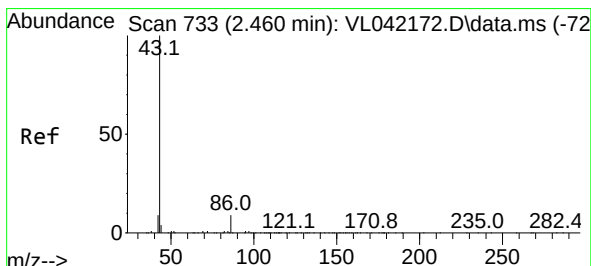
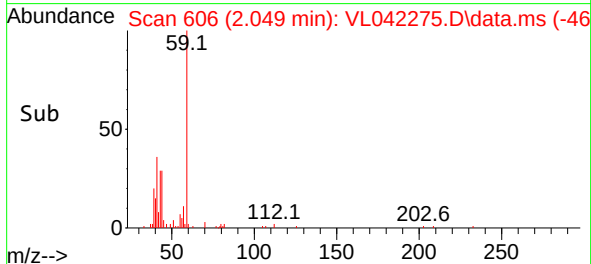
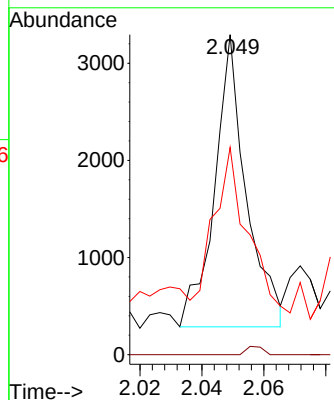
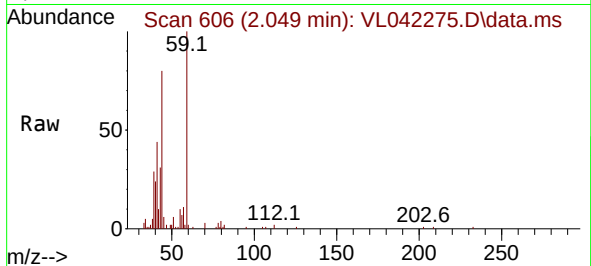




#21
 Allyl Chloride
 Concen: 0.135 ppbv
 RT: 2.049 min Scan# 619
 Delta R.T. -0.042 min
 Lab File: VL042275.D
 Acq: 08 Apr 2025 22:42

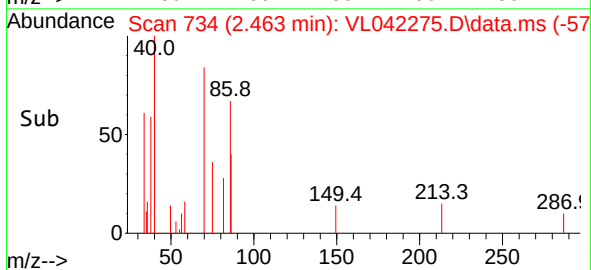
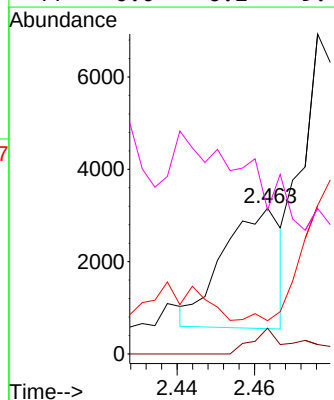
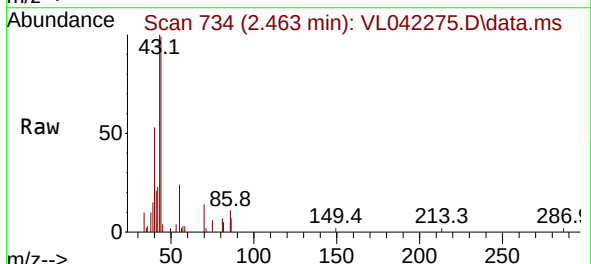
Instrument :
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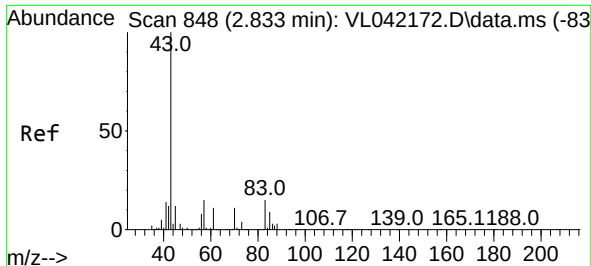
Tgt Ion: 41 Resp: 2138
 Ion Ratio Lower Upper
 41 100
 76 17.7 24.1 36.1#
 39 86.7 61.1 91.7



#23
 Vinyl Acetate
 Concen: 0.277 ppbv
 RT: 2.463 min Scan# 734
 Delta R.T. 0.003 min
 Lab File: VL042275.D
 Acq: 08 Apr 2025 22:42

Tgt Ion: 43 Resp: 2691
 Ion Ratio Lower Upper
 43 100
 86 26.3 5.5 8.3#
 42 0.0 8.6 13.0#
 44 0.0 6.2 9.4#

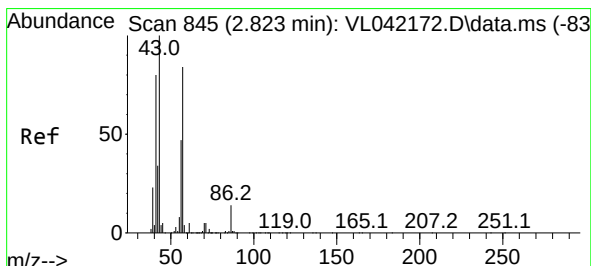
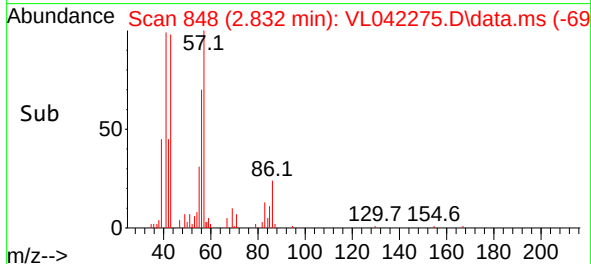
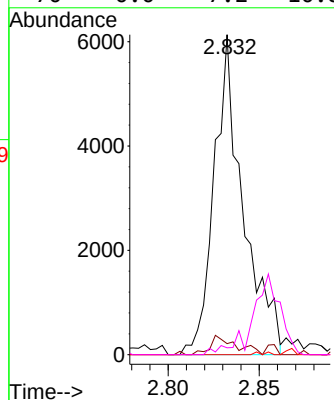
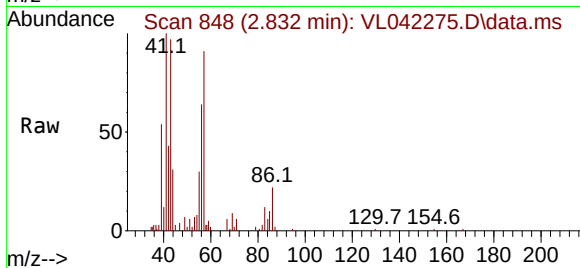




#25
Ethyl Acetate
Concen: 0.117 ppbv
RT: 2.832 min Scan# 841
Delta R.T. -0.000 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

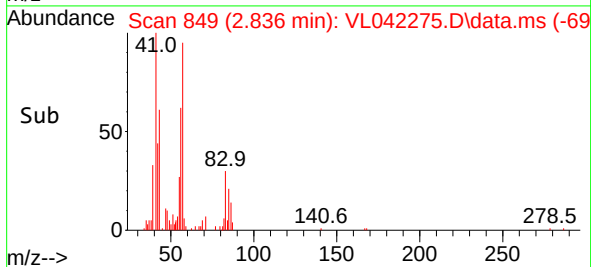
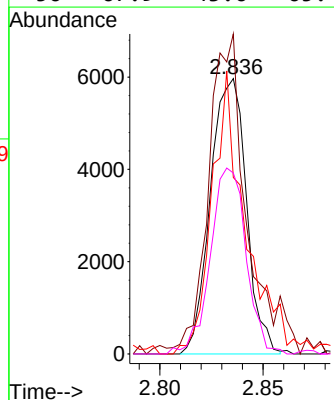
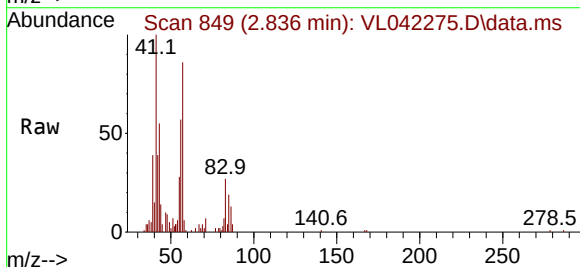
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B1-3-04012025

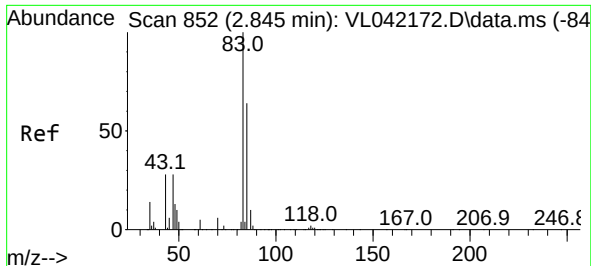
Tgt Ion: 43	Resp: 6826
Ion Ratio	Lower Upper
43 100	
45 6.8	8.2 12.2#
61 0.0	7.3 10.9#
70 0.0	7.2 10.8#



#26
Hexane
Concen: 0.321 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.013 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

Tgt Ion: 57	Resp: 7214
Ion Ratio	Lower Upper
57 100	
41 127.3	76.6 114.8#
43 99.3	207.8 311.8#
56 67.9	43.6 65.4#





#29

Chloroform

Concen: 3.078 ppbv

RT: 2.855 min Scan# 81

Delta R.T. 0.010 min

Lab File: VL042275.D

Acq: 08 Apr 2025 22:42

Instrument :

MSVOA_L

ClientSampleId :

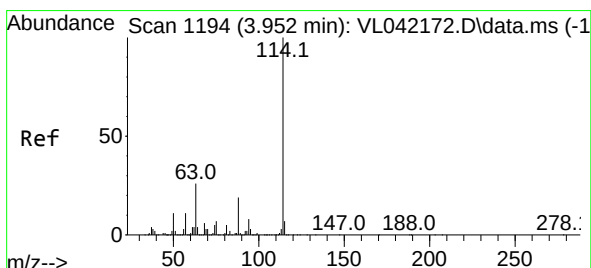
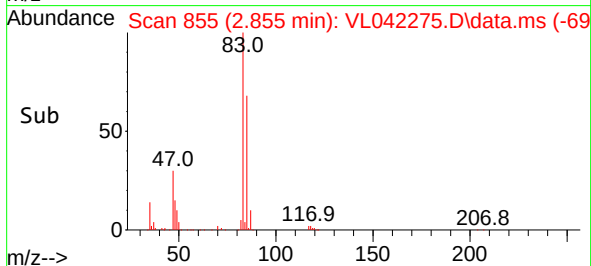
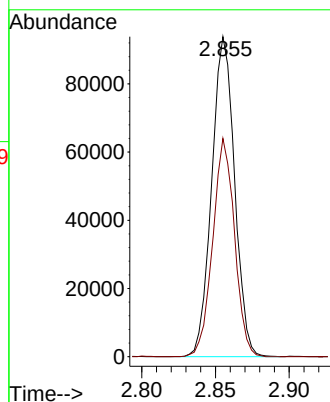
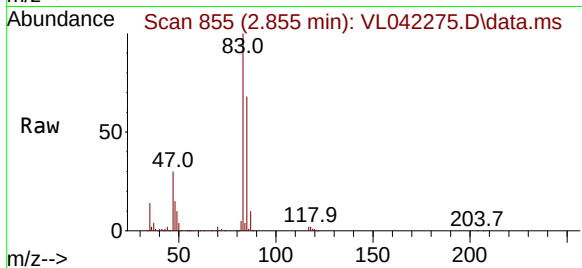
SSSG-B1-3-04012025

Tgt Ion: 83 Resp: 101229

Ion Ratio Lower Upper

83 100

85 68.2 51.4 77.2



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. 0.016 min

Lab File: VL042275.D

Acq: 08 Apr 2025 22:42

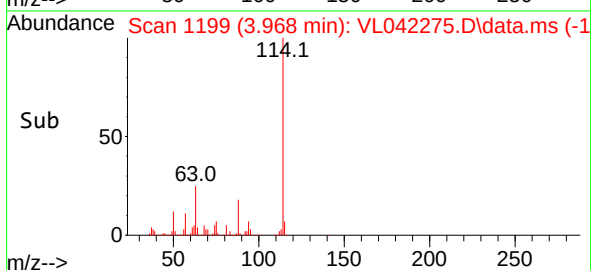
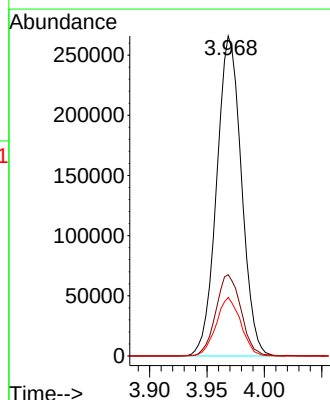
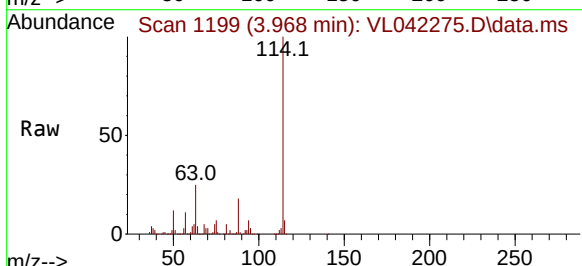
Tgt Ion: 114 Resp: 399383

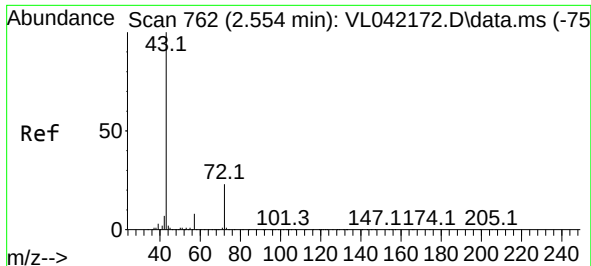
Ion Ratio Lower Upper

114 100

63 25.9 20.7 31.1

88 18.1 15.0 22.4

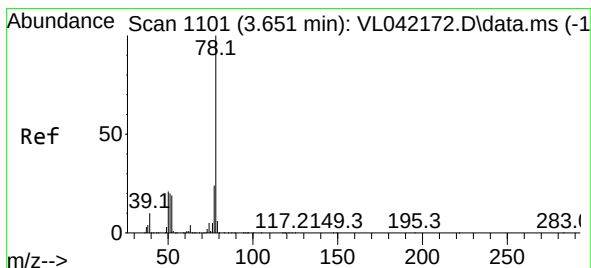
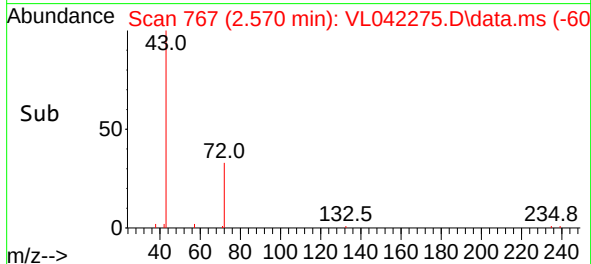
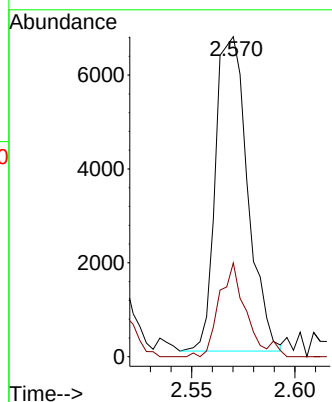
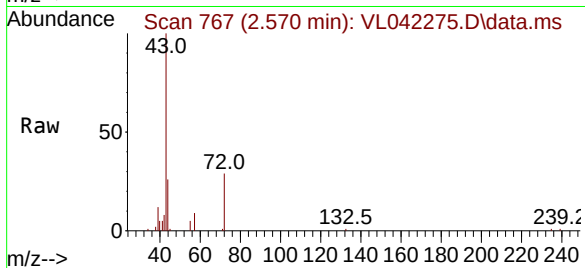




#34
2-Butanone
Concen: 0.251 ppbv
RT: 2.570 min Scan# 710
Delta R.T. 0.016 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

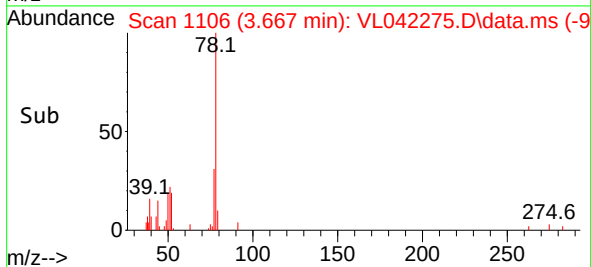
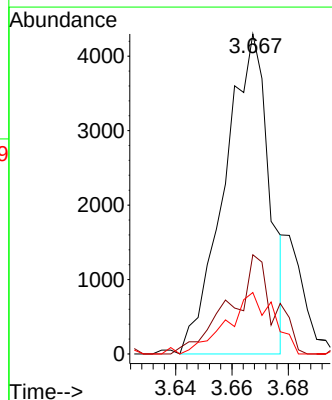
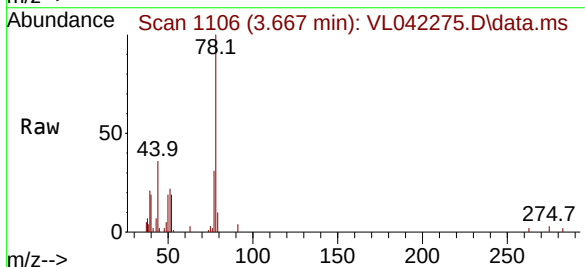
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-3-04012025

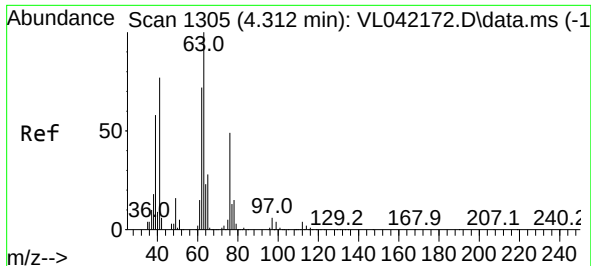
Tgt Ion: 43 Resp: 7264
Ion Ratio Lower Upper
43 100
72 25.0 18.2 27.2



#36
Benzene
Concen: 0.120 ppbv
RT: 3.667 min Scan# 1106
Delta R.T. 0.016 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

Tgt Ion: 78 Resp: 4760
Ion Ratio Lower Upper
78 100
77 29.0 19.1 28.7#
50 19.2 16.6 24.8





#39

1,2-Dichloropropane

Concen: 7.149 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. -0.343 min

Lab File: VL042275.D

Acq: 08 Apr 2025 22:42

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B1-3-04012025

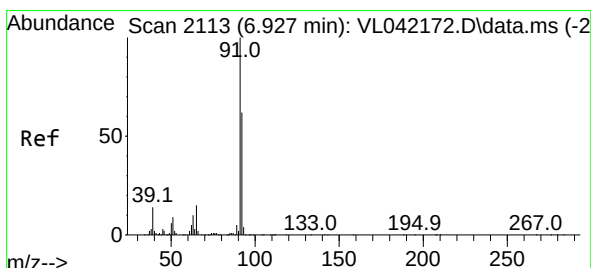
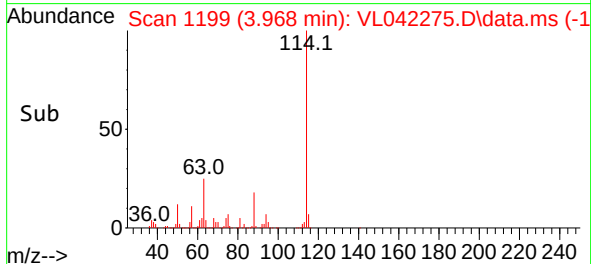
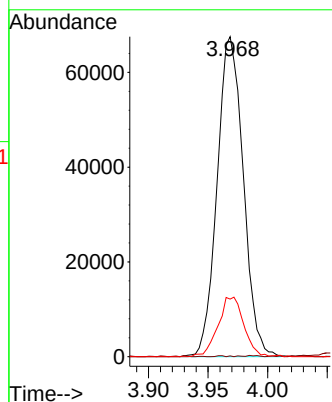
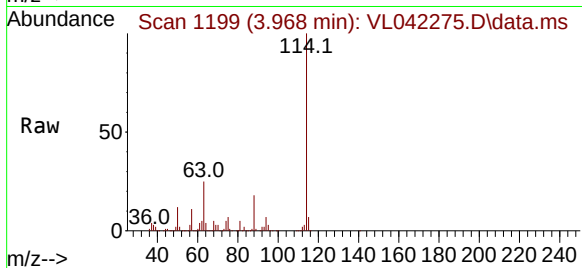
Tgt Ion: 63 Resp: 103082

Ion Ratio Lower Upper

63 100

41 0.3 61.7 92.5#

62 18.0 57.6 86.4#



#53

Toluene

Concen: 0.169 ppbv

RT: 6.953 min Scan# 2121

Delta R.T. 0.026 min

Lab File: VL042275.D

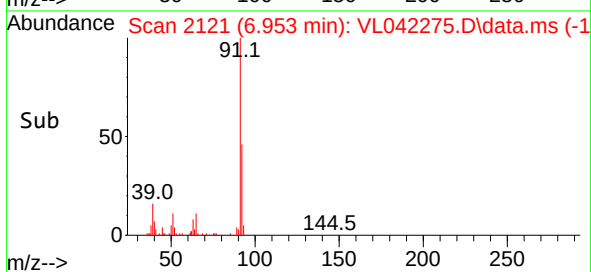
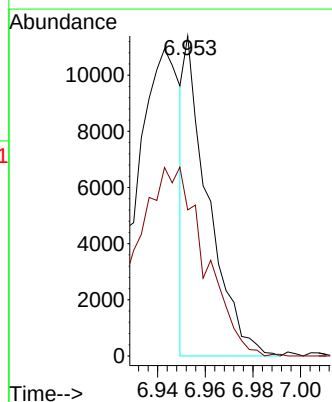
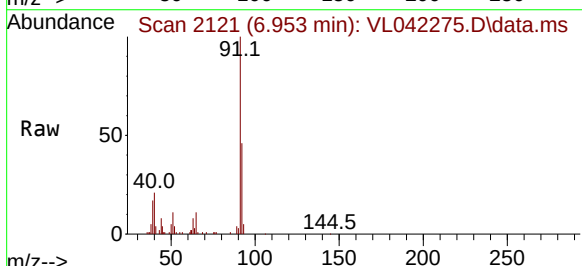
Acq: 08 Apr 2025 22:42

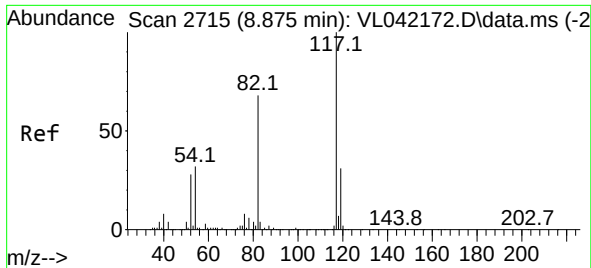
Tgt Ion: 91 Resp: 7934

Ion Ratio Lower Upper

91 100

92 167.7 48.4 72.6#

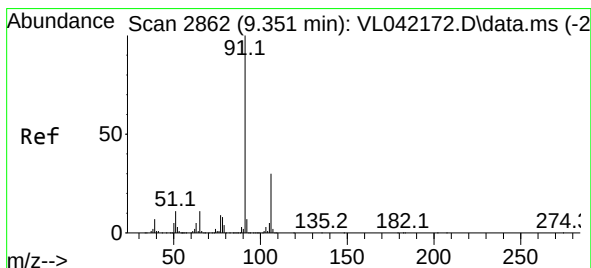
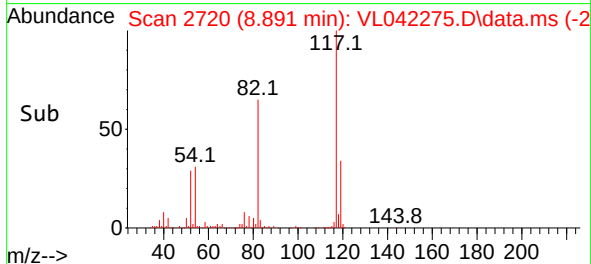
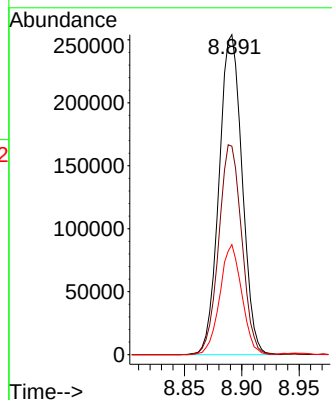
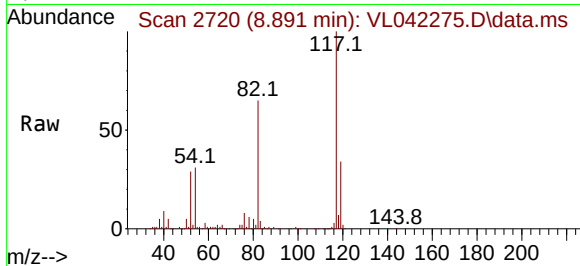




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

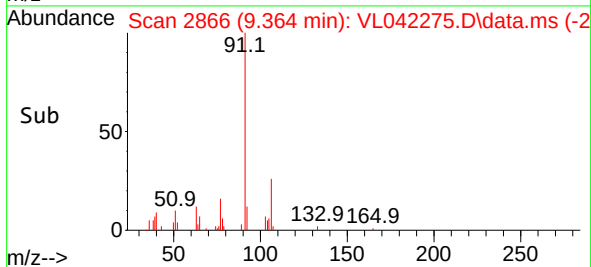
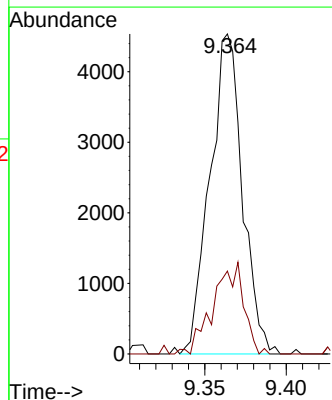
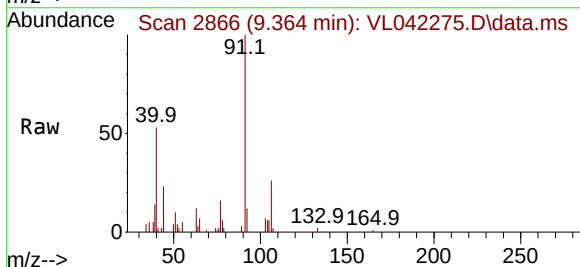
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-3-04012025

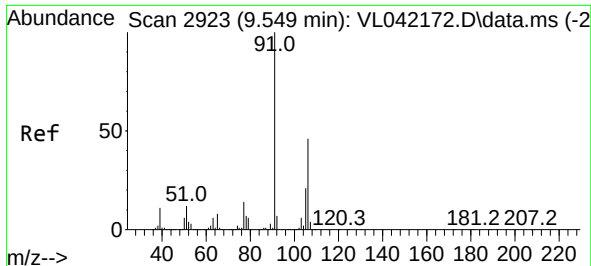
Tgt Ion:	117	Resp:	355820
Ion	Ratio	Lower	Upper
117	100		
82	65.5	55.8	83.6
119	32.8	25.5	38.3



#58
Ethyl Benzene
Concen: 0.100 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.013 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

Tgt Ion:	91	Resp:	6292
Ion	Ratio	Lower	Upper
91	100		
106	25.9	24.2	36.2





#59

m/p-Xylene

Concen: 0.078 ppbv

RT: 9.558 min Scan# 2923

Delta R.T. 0.010 min

Lab File: VL042275.D

Acq: 08 Apr 2025 22:42

Instrument :

MSVOA_L

ClientSampleId :

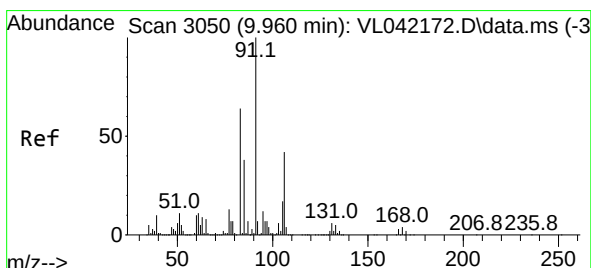
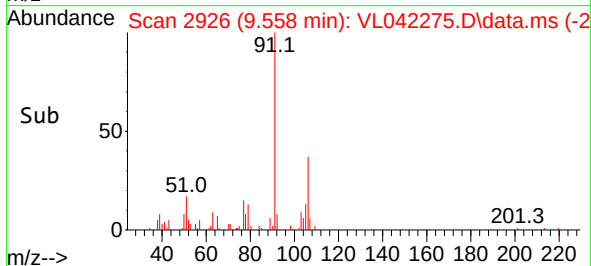
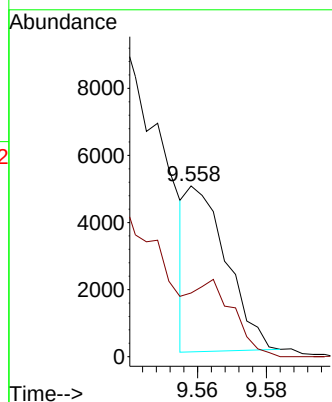
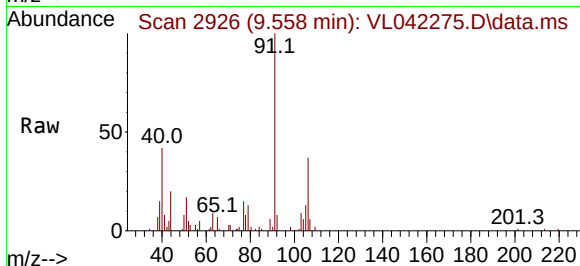
SSSG-B1-3-04012025

Tgt Ion: 91 Resp: 3961

Ion Ratio Lower Upper

91 100

106 0.0 36.4 54.6#



#60

o-Xylene

Concen: 0.138 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. 0.013 min

Lab File: VL042275.D

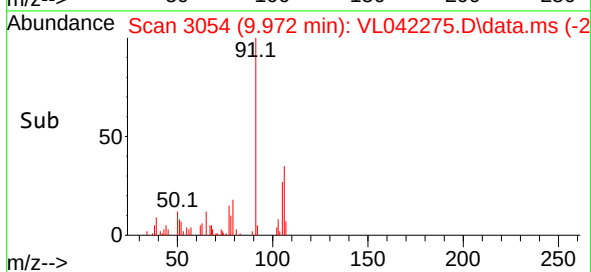
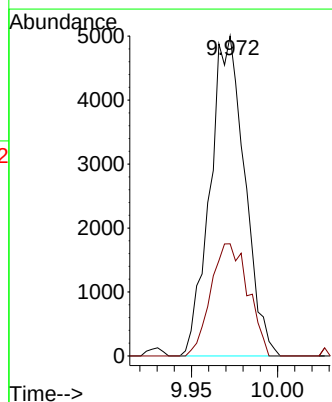
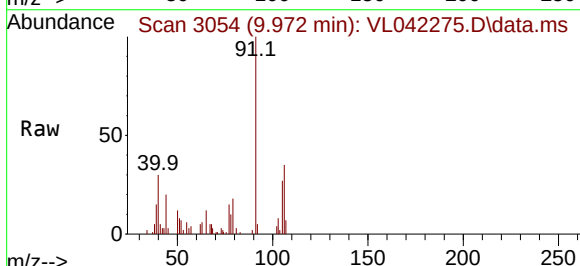
Acq: 08 Apr 2025 22:42

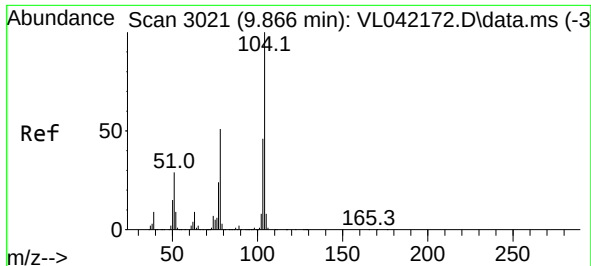
Tgt Ion: 91 Resp: 7001

Ion Ratio Lower Upper

91 100

106 37.6 20.8 62.5

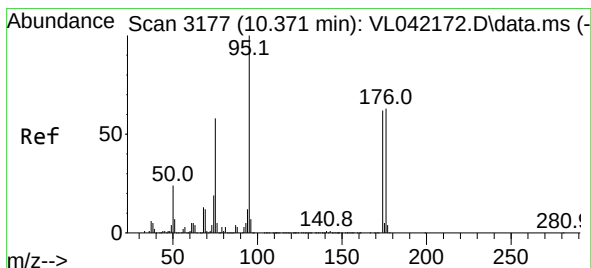
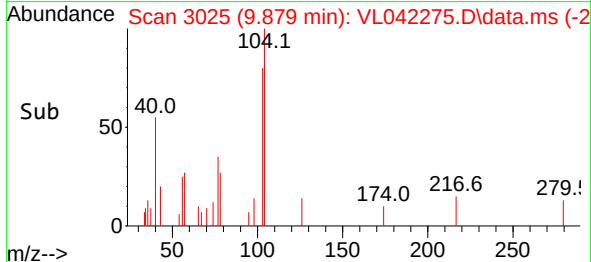
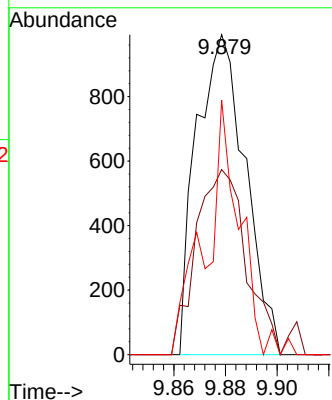
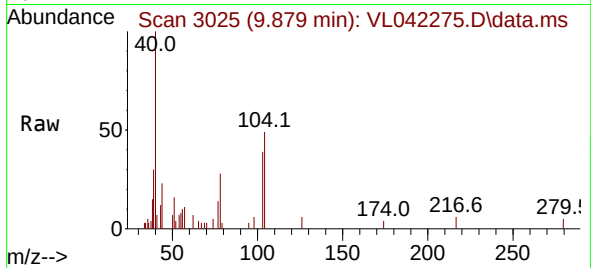




#61
Styrene
Concen: 0.052 ppbv
RT: 9.879 min Scan# 3021
Delta R.T. 0.013 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

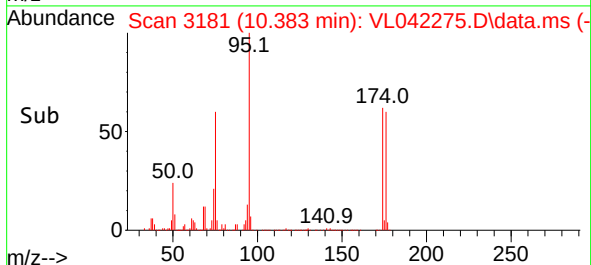
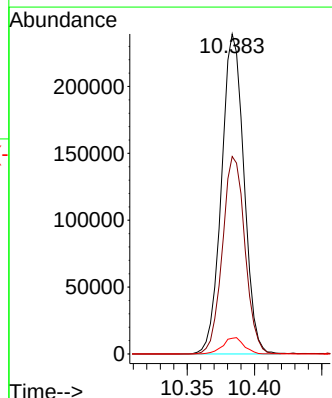
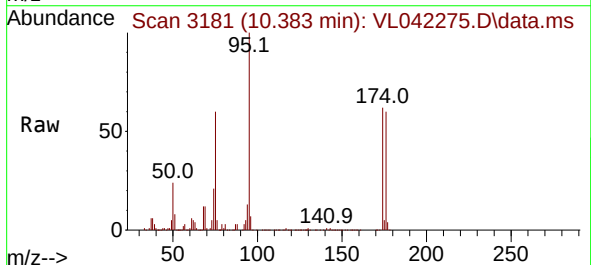
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-3-04012025

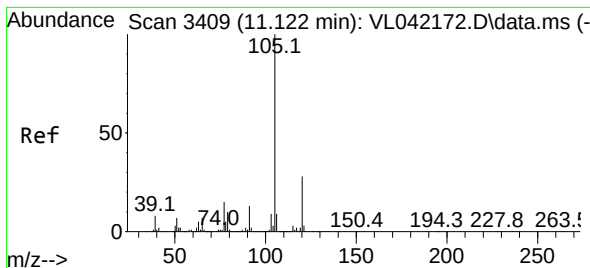
Tgt Ion:104 Resp: 1302
Ion Ratio Lower Upper
104 100
78 61.8 41.8 62.6
103 55.7 37.0 55.4#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.470 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. 0.013 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

Tgt Ion: 95 Resp: 276732
Ion Ratio Lower Upper
95 100
174 62.2 50.6 76.0
175 4.8 3.8 5.6





#72

4-Ethyltoluene

Concen: 0.035 ppbv

RT: 11.131 min Scan# 3412

Delta R.T. 0.010 min

Lab File: VL042275.D

Acq: 08 Apr 2025 22:42

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B1-3-04012025

Tgt Ion:105 Resp: 2178

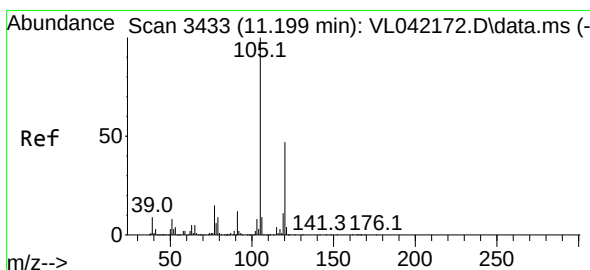
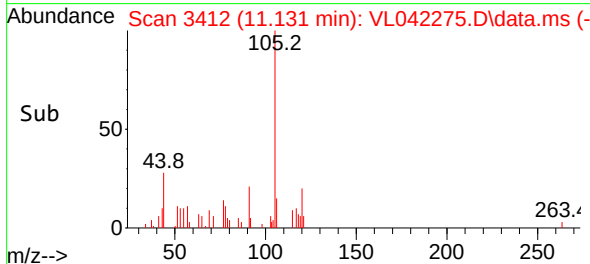
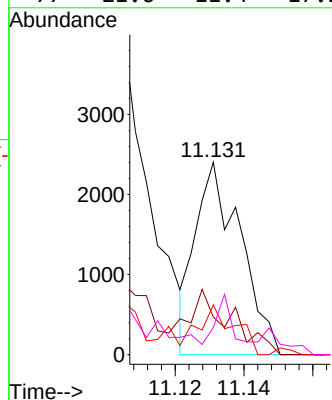
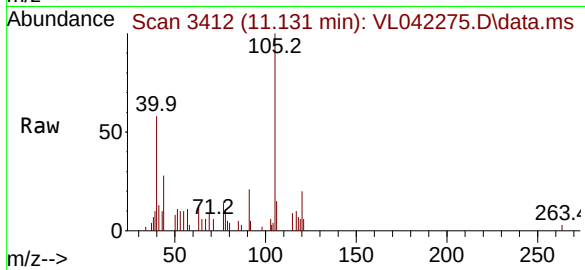
Ion Ratio Lower Upper

105 100

120 0.0 23.4 35.0#

91 0.0 10.3 15.5#

77 21.6 11.4 17.2#



#73

1,3,5-Trimethylbenzene

Concen: 0.035 ppbv

RT: 11.212 min Scan# 3437

Delta R.T. 0.013 min

Lab File: VL042275.D

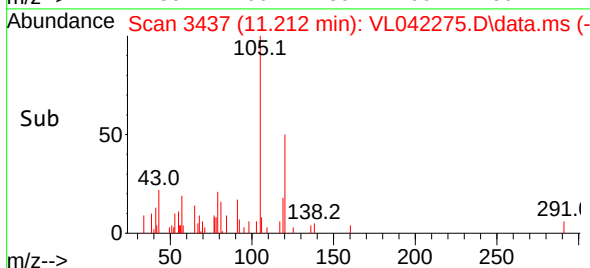
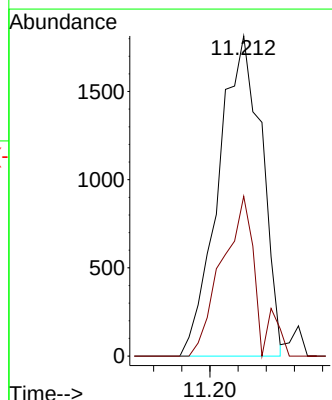
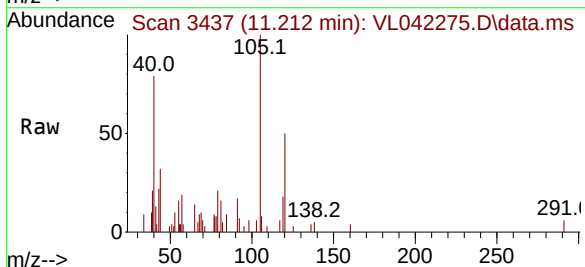
Acq: 08 Apr 2025 22:42

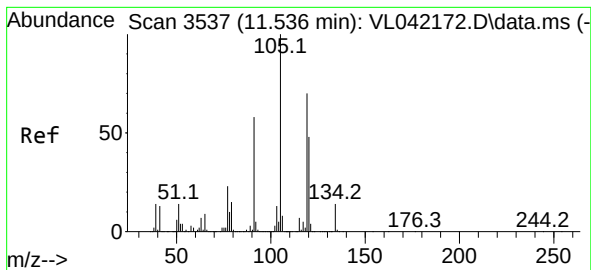
Tgt Ion:105 Resp: 1937

Ion Ratio Lower Upper

105 100

120 49.9 37.4 56.0





#74

1,2,4-Trimethylbenzene

Concen: 0.114 ppbv

RT: 11.542 min Scan# 31

Delta R.T. 0.006 min

Lab File: VL042275.D

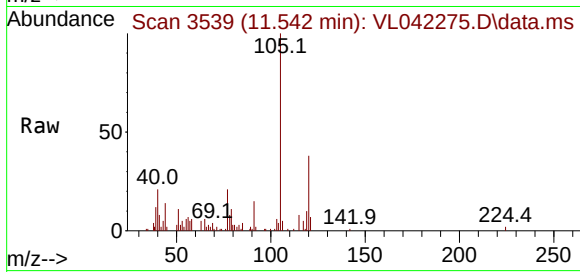
Acq: 08 Apr 2025 22:42

Instrument :

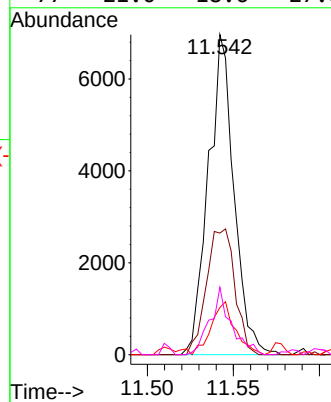
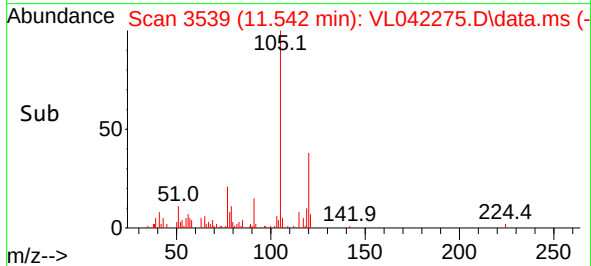
MSVOA_L

ClientSampleId :

SSSG-B1-3-04012025



Tgt Ion:	105	Resp:	7204
Ion	Ratio	Lower	Upper
105	100		
120	38.0	38.6	58.0#
91	13.2	46.2	69.2#
77	21.0	18.6	27.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042276.D
 Acq On : 08 Apr 2025 23:13
 Operator : SY/MD
 Sample : Q1728-09DUP 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-1-04022025DUP

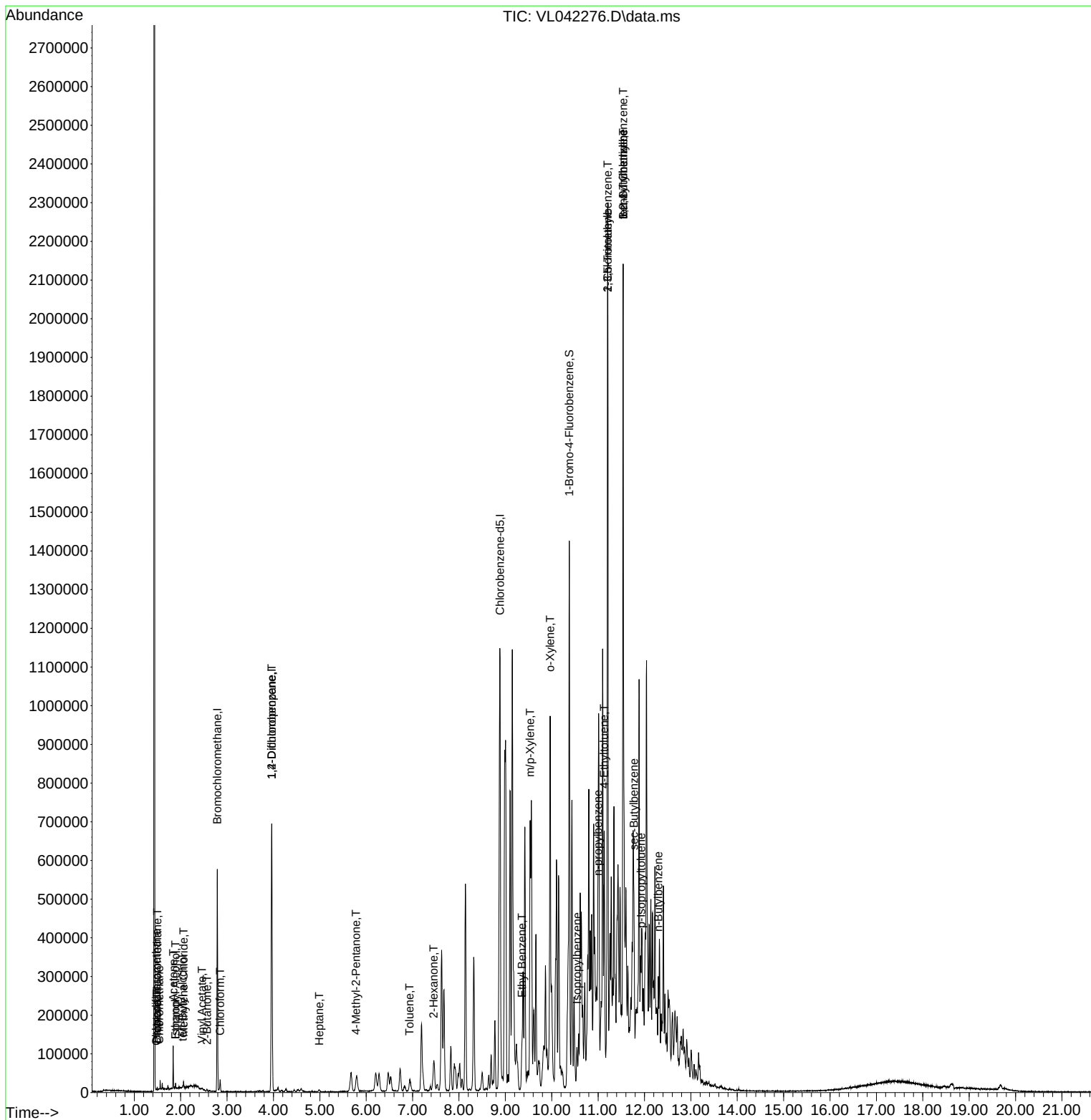
Quant Time: Apr 09 02:01:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

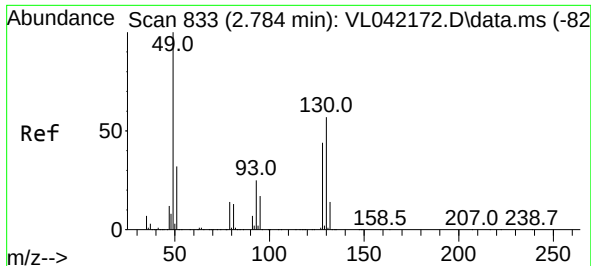
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.790	49	158259	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	390082	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	405082	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	316771	9.522	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	996	0.043	ppbv #	46
3) Chlorodifluoromethane	1.476	51	761	0.032	ppbv #	91
4) Chloromethane	1.534	50	313	0.033	ppbv #	65
9) Propene	1.489	41	659	0.060	ppbv	98
10) Heptane	4.985	43	906	0.031	ppbv #	28
13) Ethanol	1.887	45	5302	5.126	ppbv #	27
15) Acetone	1.839	43	47636	2.152	ppbv	94
17) tert-Butyl alcohol	2.042	59	2517	0.091	ppbv #	80
19) Isopropyl Alcohol	1.887	45	5302	0.425	ppbv #	1
20) Methylene Chloride	2.062	84	2303	0.279	ppbv	93
23) Vinyl Acetate	2.460	43	1777	0.186	ppbv #	42
29) Chloroform	2.852	83	11762	0.362	ppbv	88
34) 2-Butanone	2.567	43	3544	0.125	ppbv	91
39) 1,2-Dichloropropane	3.962	63	99889	7.093	ppbv #	21
50) 4-Methyl-2-Pentanone	5.781	43	2600	0.058	ppbv	93
51) 2-Hexanone	7.454	43	10393	0.282	ppbv #	47
53) Toluene	6.936	91	18286	0.399	ppbv	95
58) Ethyl Benzene	9.357	91	36098	0.502	ppbv	100
59) m/p-Xylene	9.532	91	497808	8.664	ppbv	100
60) o-Xylene	9.966	91	414511	7.197	ppbv	96
62) Isopropylbenzene	10.545	105	32420	0.376	ppbv	99
64) n-propylbenzene	10.992	120	11198	0.505	ppbv	73
65) tert-Butylbenzene	11.539	119	89265	1.121	ppbv #	76
66) Benzyl Chloride	11.539	91	89753	10.619	ppbv #	68
67) sec-Butylbenzene	11.772	105	32418	0.293	ppbv #	66
69) p-Isopropyltoluene	11.927	119	36608	0.384	ppbv	99
70) n-Butylbenzene	12.296	91	23950	0.246	ppbv #	10
71) 2-Chlorotoluene	11.205	91	54171	0.810	ppbv	76
72) 4-Ethyltoluene	11.128	105	179822	2.507	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.205	105	436966	6.977	ppbv	97
74) 1,2,4-Trimethylbenzene	11.539	105	732665	10.154	ppbv #	66

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

Quant Time: Apr 09 02:01:58 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

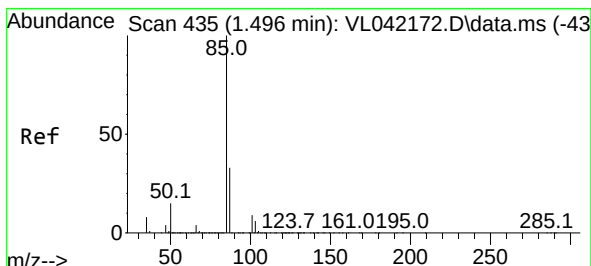
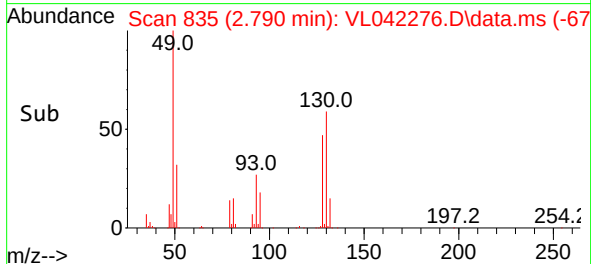
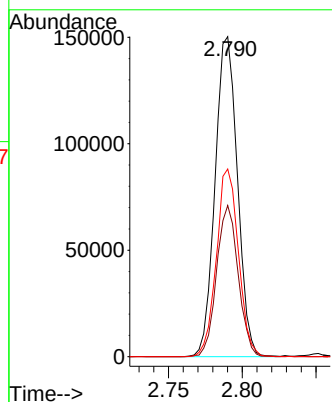
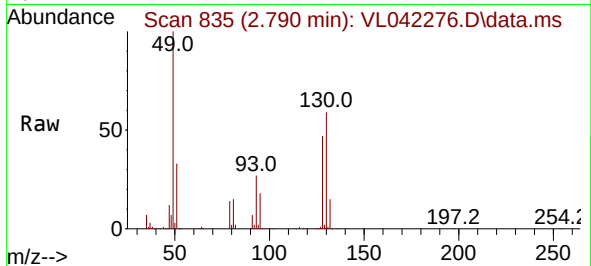




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.790 min Scan# 81
 Delta R.T. 0.006 min
 Lab File: VL042276.D
 Acq: 08 Apr 2025 23:13

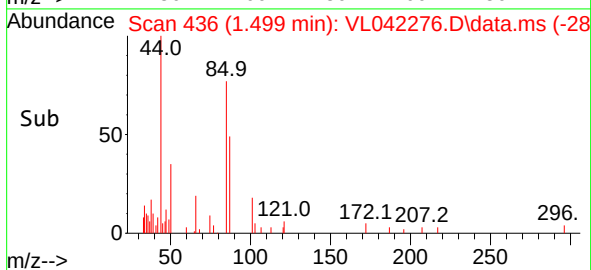
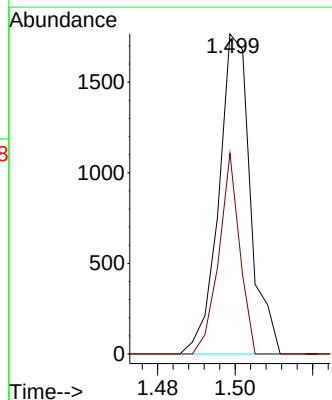
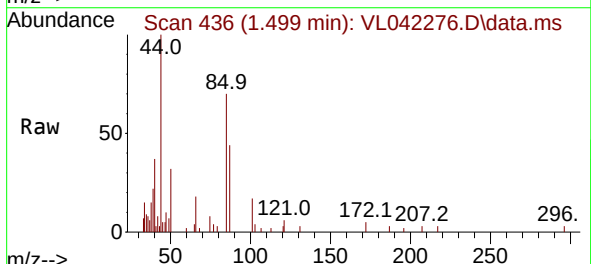
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-1-04022025DUP

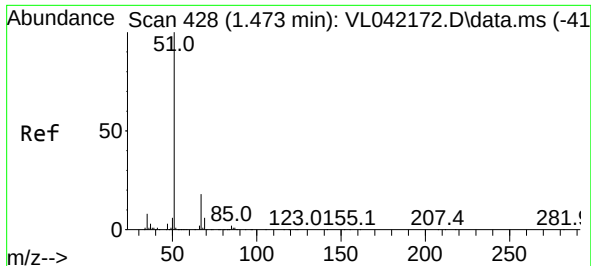
Tgt Ion: 49 Resp: 158259
 Ion Ratio Lower Upper
 49 100
 128 45.7 22.9 68.5
 130 57.9 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 0.043 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.003 min
 Lab File: VL042276.D
 Acq: 08 Apr 2025 23:13

Tgt Ion: 85 Resp: 996
 Ion Ratio Lower Upper
 85 100
 87 62.7 26.1 39.1#

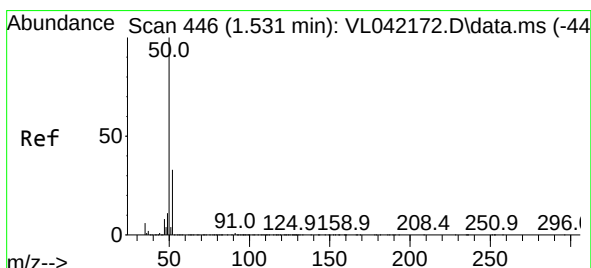
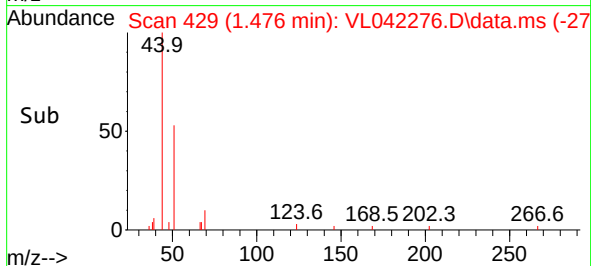
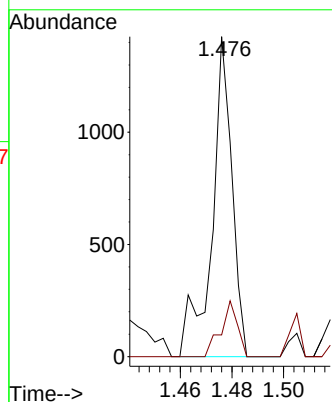
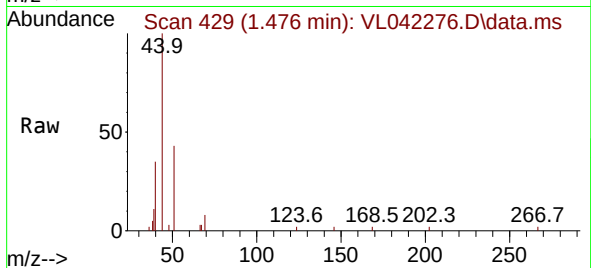




#3
Chlorodifluoromethane
Concen: 0.032 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

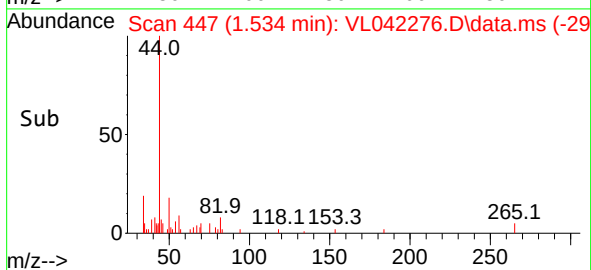
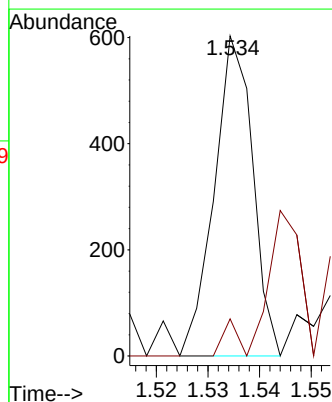
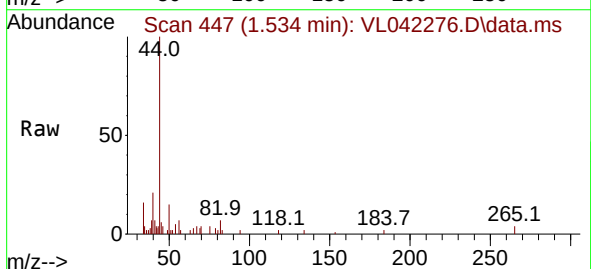
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025DUP

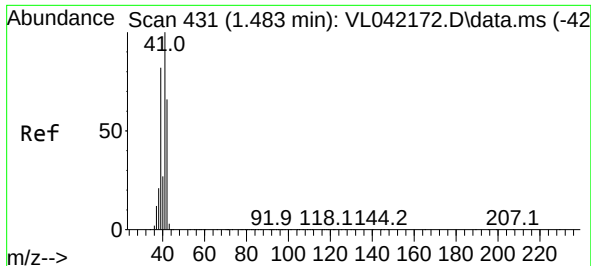
Tgt Ion: 51 Resp: 761
Ion Ratio Lower Upper
51 100
67 14.6 15.0 22.6#



#4
Chloromethane
Concen: 0.033 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

Tgt Ion: 50 Resp: 313
Ion Ratio Lower Upper
50 100
52 12.9 26.1 39.1#





#9

Propene

Concen: 0.060 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042276.D

Acq: 08 Apr 2025 23:13

Instrument :

MSVOA_L

ClientSampleId :

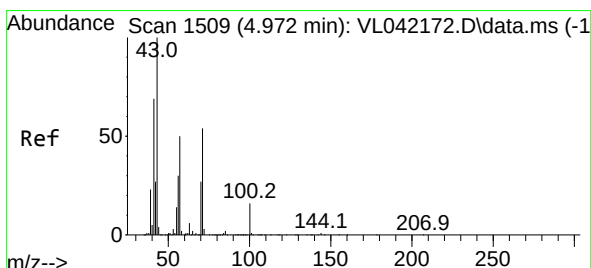
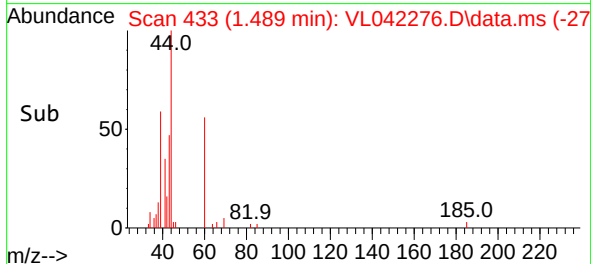
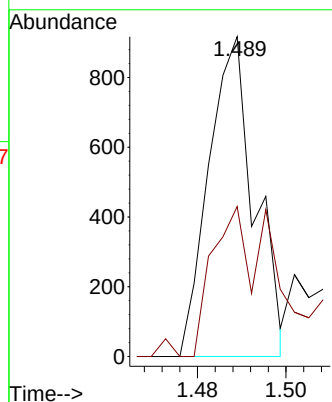
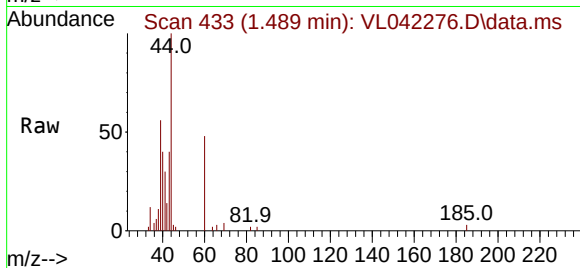
SSSG-B2-1-04022025DUP

Tgt Ion: 41 Resp: 659

Ion Ratio Lower Upper

41 100

42 68.0 55.4 83.2



#10

Heptane

Concen: 0.031 ppbv

RT: 4.985 min Scan# 1513

Delta R.T. 0.013 min

Lab File: VL042276.D

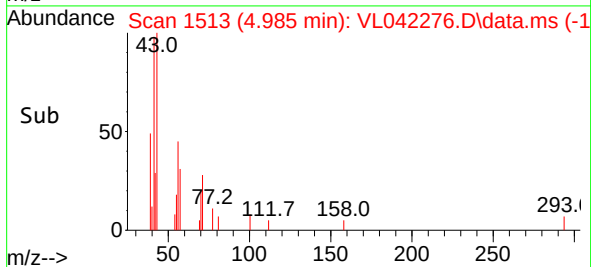
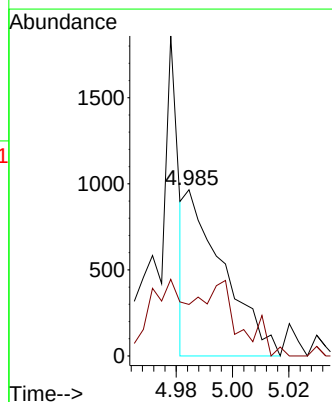
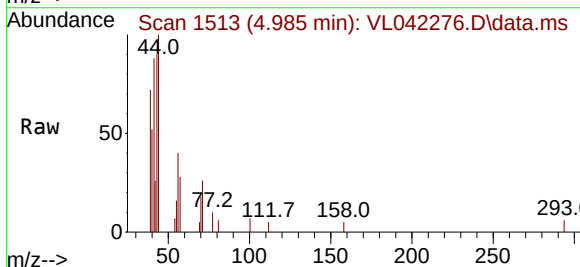
Acq: 08 Apr 2025 23:13

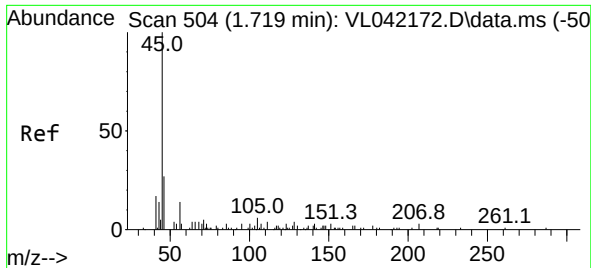
Tgt Ion: 43 Resp: 906

Ion Ratio Lower Upper

43 100

57 0.0 39.4 59.2#

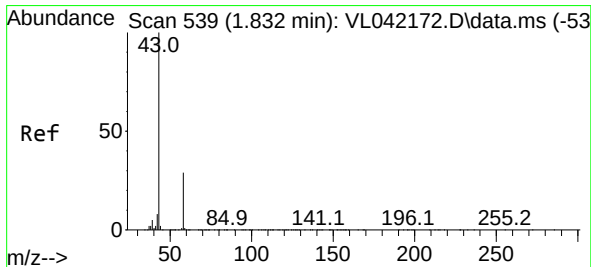
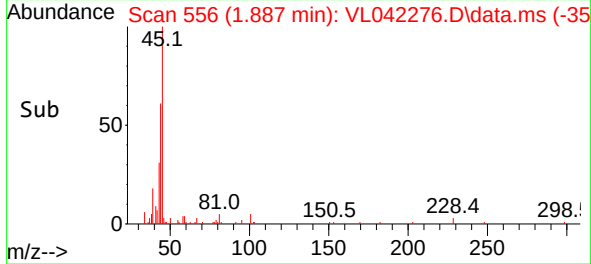
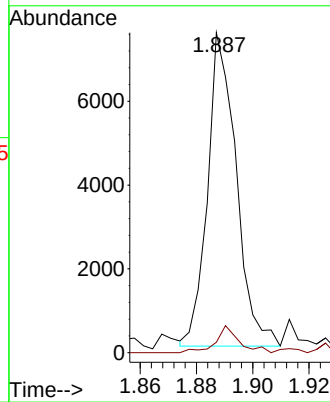
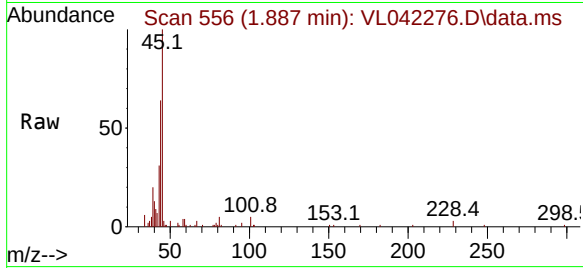




#13
 Ethanol
 Concen: 5.126 ppbv
 RT: 1.887 min Scan# 51
 Delta R.T. 0.168 min
 Lab File: VL042276.D
 Acq: 08 Apr 2025 23:13

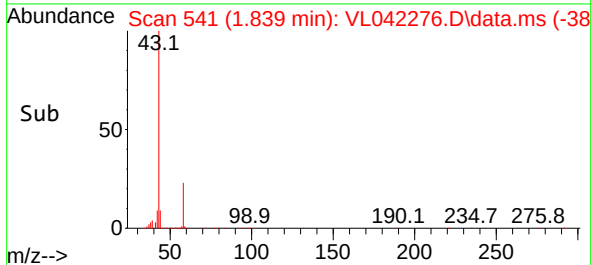
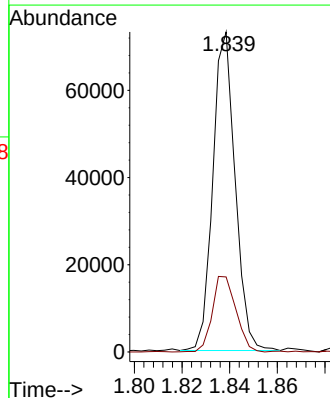
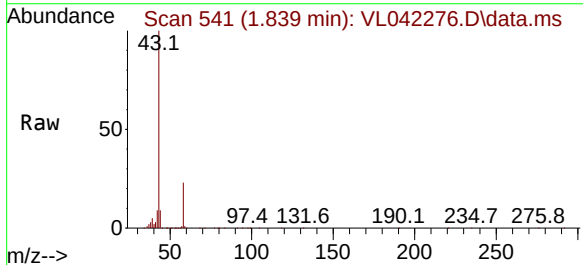
Instrument :
 MSVOA_1
 ClientSampleId :
 SSSG-B2-1-04022025DUP

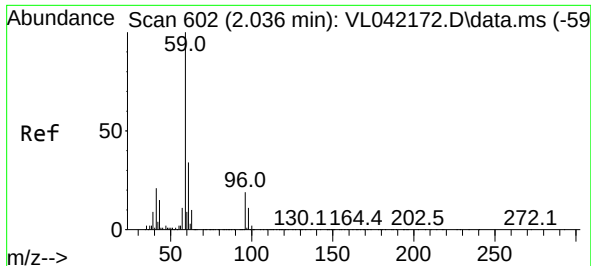
Tgt Ion: 45 Resp: 5302
 Ion Ratio Lower Upper
 45 100
 46 0.0 20.2 80.8#



#15
 Acetone
 Concen: 2.152 ppbv
 RT: 1.839 min Scan# 541
 Delta R.T. 0.006 min
 Lab File: VL042276.D
 Acq: 08 Apr 2025 23:13

Tgt Ion: 43 Resp: 47636
 Ion Ratio Lower Upper
 43 100
 58 25.6 23.2 34.8





#17

tert-Butyl alcohol

Concen: 0.091 ppbv

RT: 2.042 min Scan# 602

Delta R.T. 0.006 min

Lab File: VL042276.D

Acq: 08 Apr 2025 23:13

Instrument :

MSVOA_L

ClientSampleId :

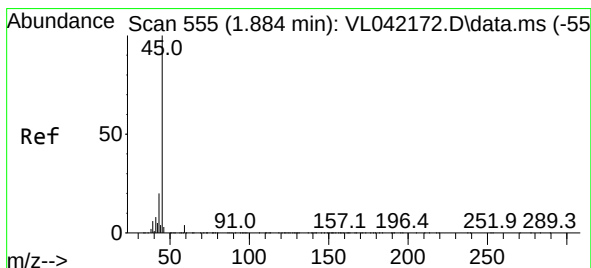
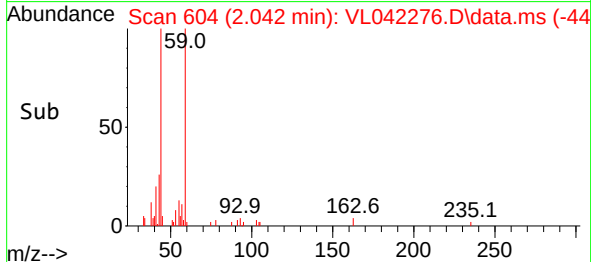
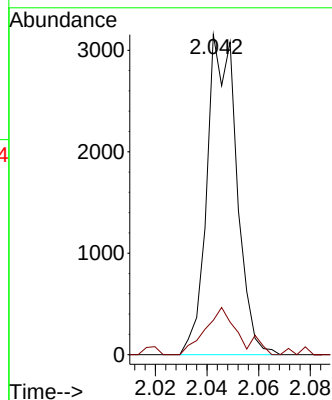
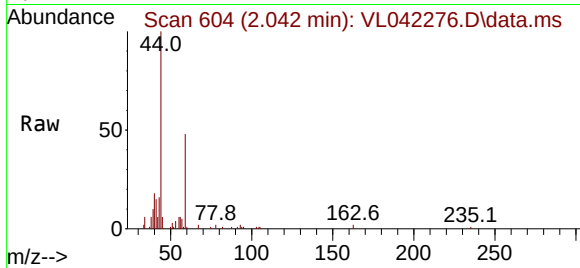
SSSG-B2-1-04022025DUP

Tgt Ion: 59 Resp: 2517

Ion Ratio Lower Upper

59 100

57 18.6 8.9 13.3#



#19

Isopropyl Alcohol

Concen: 0.425 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.003 min

Lab File: VL042276.D

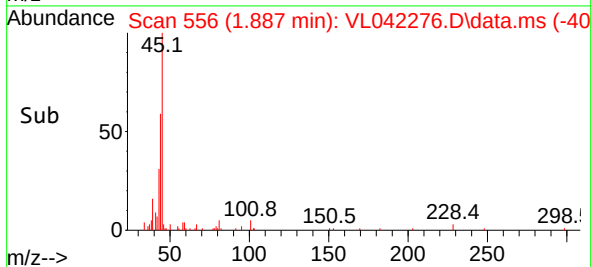
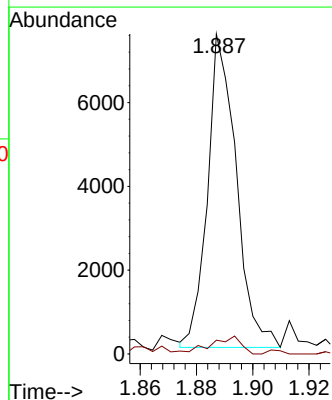
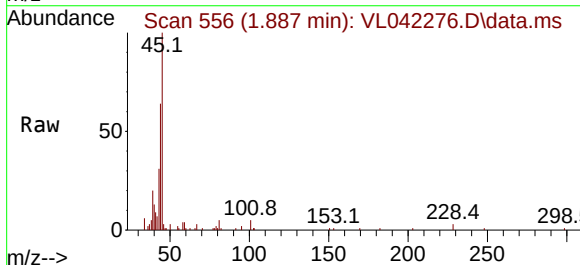
Acq: 08 Apr 2025 23:13

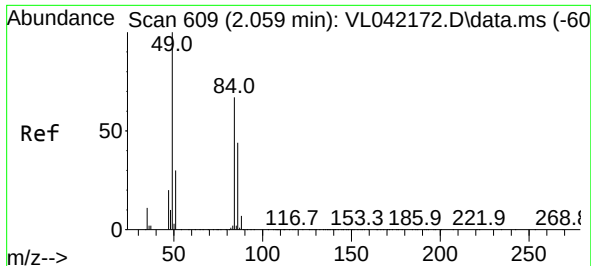
Tgt Ion: 45 Resp: 5302

Ion Ratio Lower Upper

45 100

58 228.8 36.9 55.3#

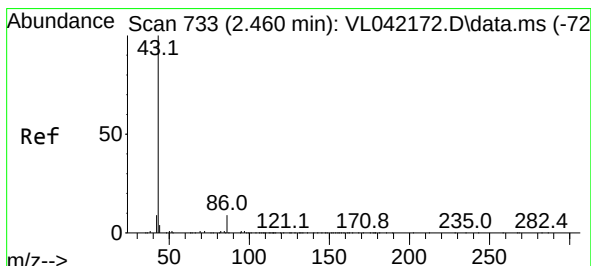
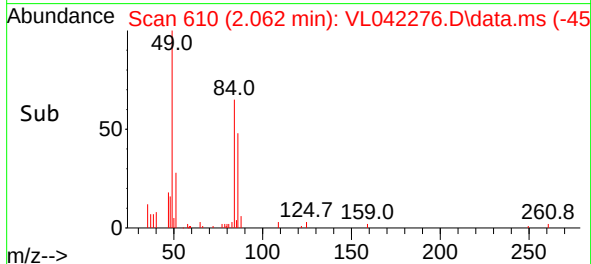
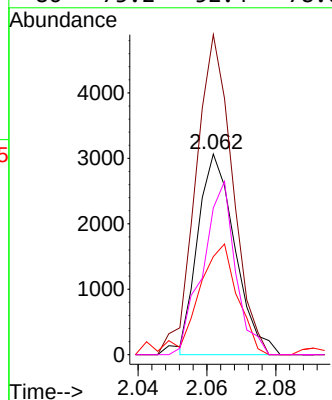
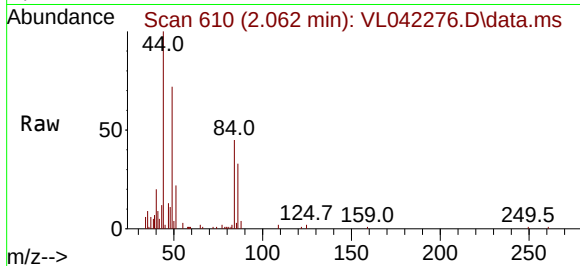




#20
Methylene Chloride
Concen: 0.279 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

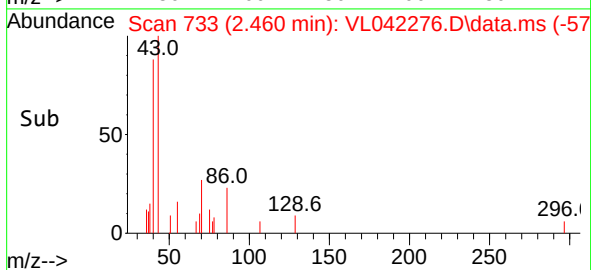
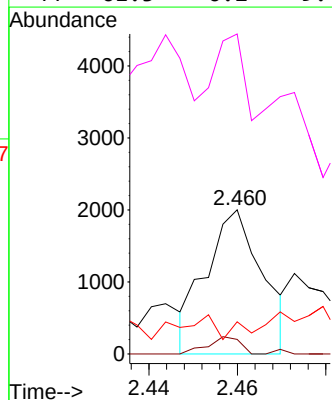
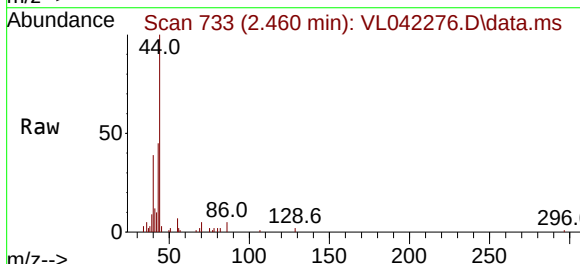
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025DUP

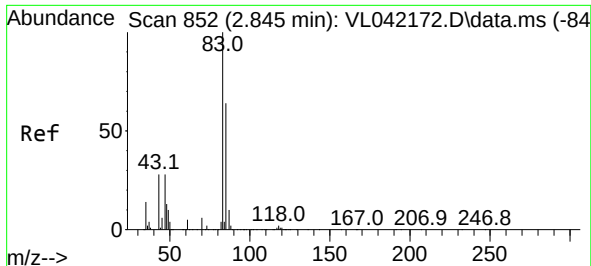
Tgt Ion: 84	Resp: 2303
Ion Ratio	Lower Upper
84 100	
49 159.5	120.2 180.4
51 48.9	37.4 56.0
86 73.2	52.4 78.6



#23
Vinyl Acetate
Concen: 0.186 ppbv
RT: 2.460 min Scan# 733
Delta R.T. -0.000 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

Tgt Ion: 43	Resp: 1777
Ion Ratio	Lower Upper
43 100	
86 14.2	5.5 8.3#
42 5.4	8.6 13.0#
44 61.3	6.2 9.4#





#29

Chloroform

Concen: 0.362 ppbv

RT: 2.852 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042276.D

Acq: 08 Apr 2025 23:13

Instrument :

MSVOA_L

ClientSampleId :

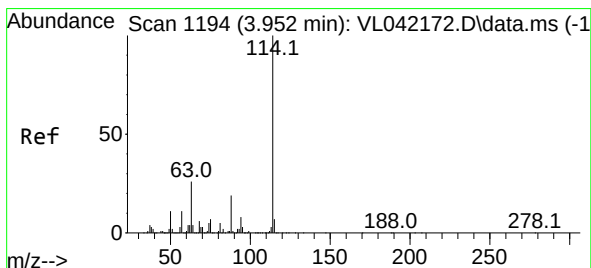
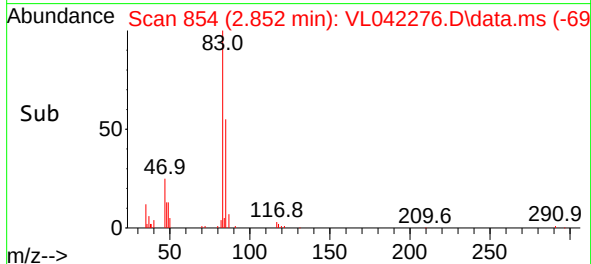
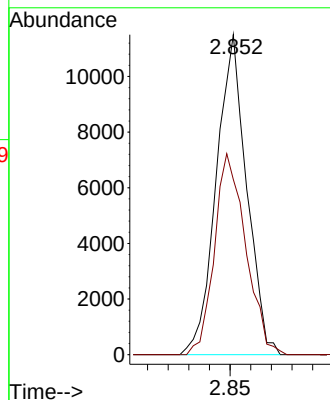
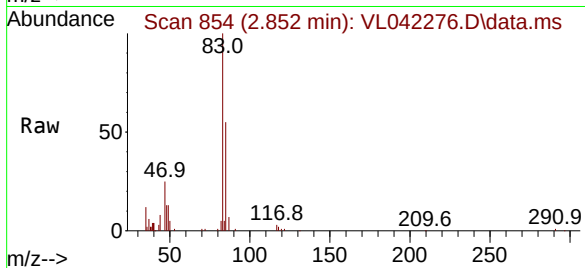
SSSG-B2-1-04022025DUP

Tgt Ion: 83 Resp: 11762

Ion Ratio Lower Upper

83 100

85 54.8 51.4 77.2



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.009 min

Lab File: VL042276.D

Acq: 08 Apr 2025 23:13

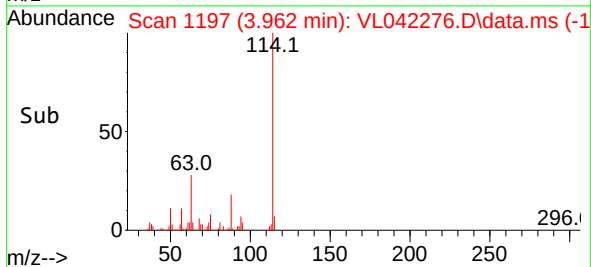
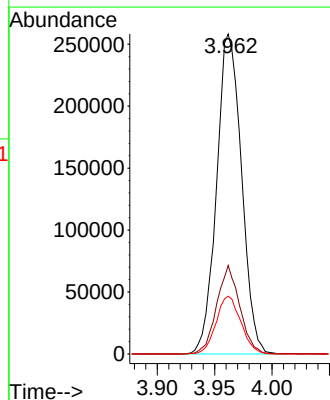
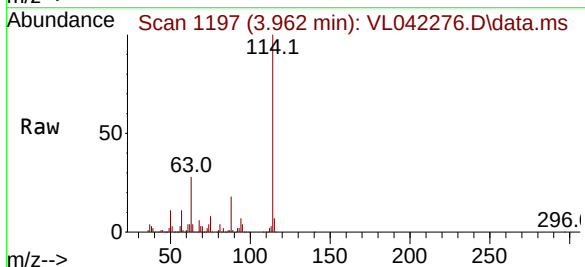
Tgt Ion: 114 Resp: 390082

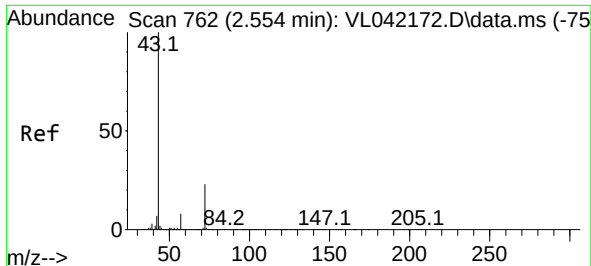
Ion Ratio Lower Upper

114 100

63 25.7 20.7 31.1

88 17.9 15.0 22.4

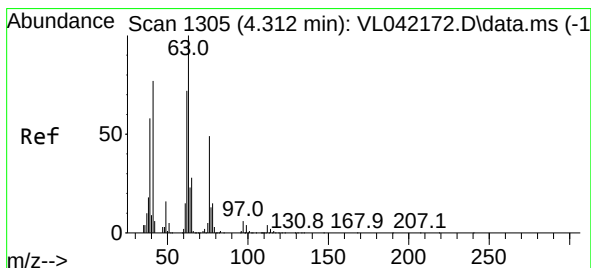
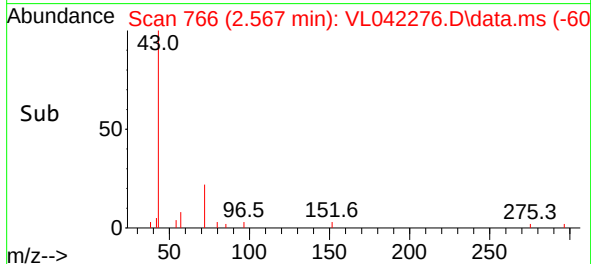
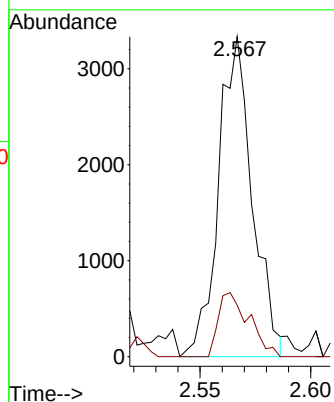
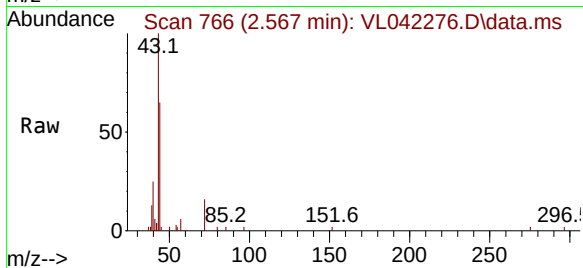




#34
2-Butanone
Concen: 0.125 ppbv
RT: 2.567 min Scan# 71
Delta R.T. 0.013 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

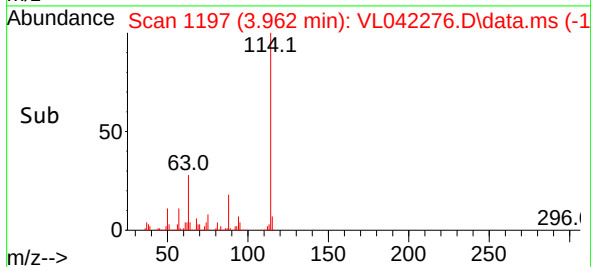
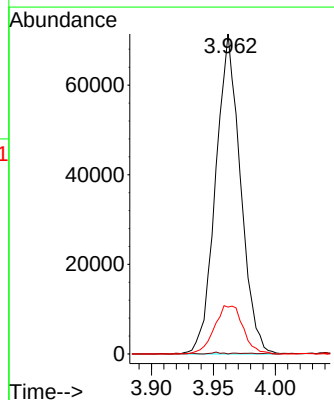
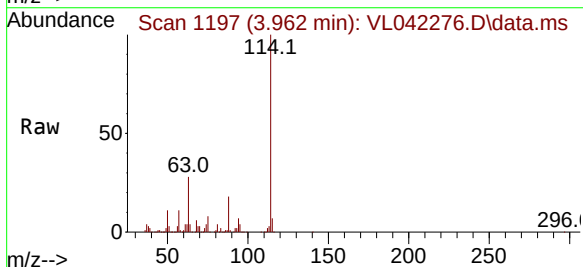
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025DUP

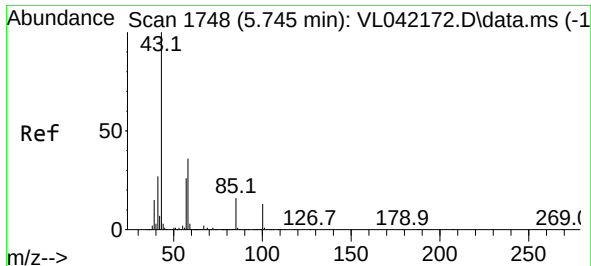
Tgt Ion: 43 Resp: 3544
Ion Ratio Lower Upper
43 100
72 18.3 18.2 27.2



#39
1,2-Dichloropropane
Concen: 7.093 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. -0.350 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

Tgt Ion: 63 Resp: 99889
Ion Ratio Lower Upper
63 100
41 0.0 61.7 92.5#
62 14.6 57.6 86.4#

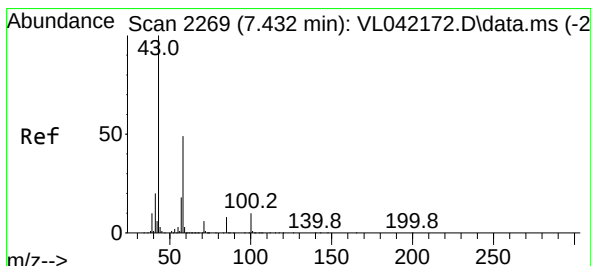
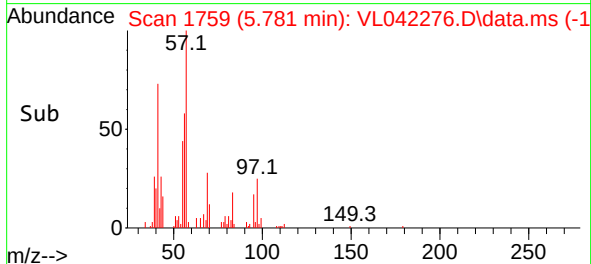
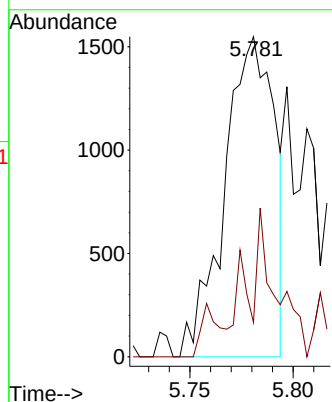
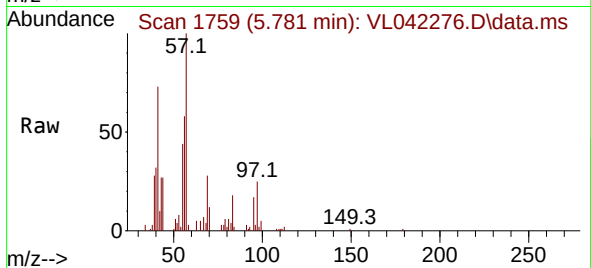




#50
4-Methyl-2-Pentanone
Concen: 0.058 ppbv
RT: 5.781 min Scan# 1759
Delta R.T. 0.035 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

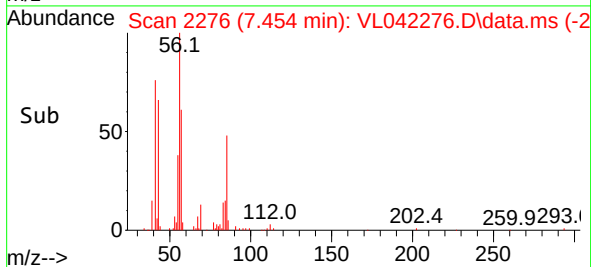
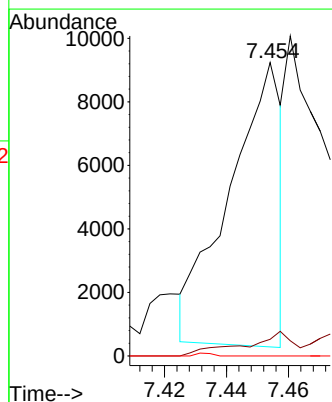
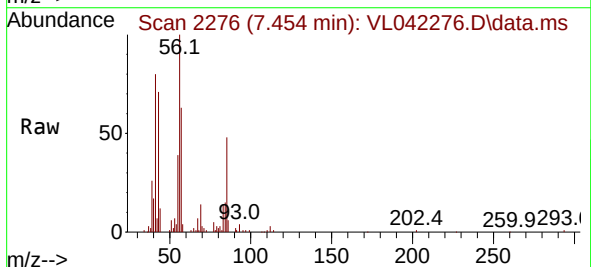
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025DUP

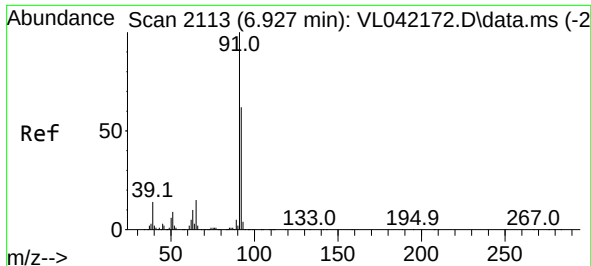
Tgt Ion: 43 Resp: 2600
Ion Ratio Lower Upper
43 100
58 40.7 29.0 43.6



#51
2-Hexanone
Concen: 0.282 ppbv
RT: 7.454 min Scan# 2276
Delta R.T. 0.022 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

Tgt Ion: 43 Resp: 10393
Ion Ratio Lower Upper
43 100
58 13.3 39.7 59.5#
98 0.0 0.1 0.1#





#53

Toluene

Concen: 0.399 ppbv

RT: 6.936 min Scan# 2116

Delta R.T. 0.009 min

Lab File: VL042276.D

Acq: 08 Apr 2025 23:13

Instrument :

MSVOA_L

ClientSampleId :

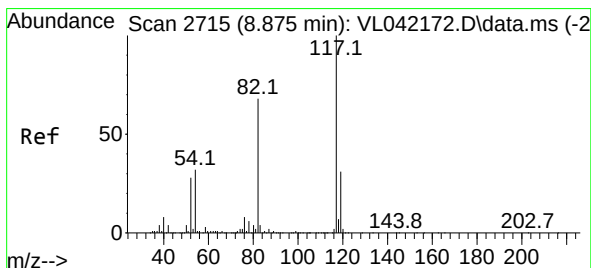
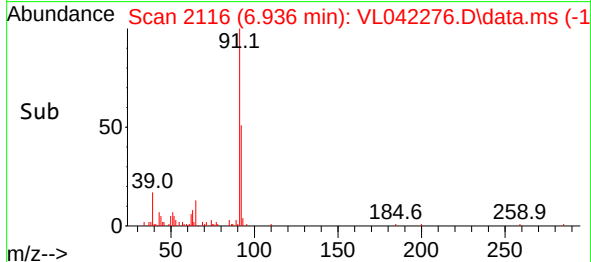
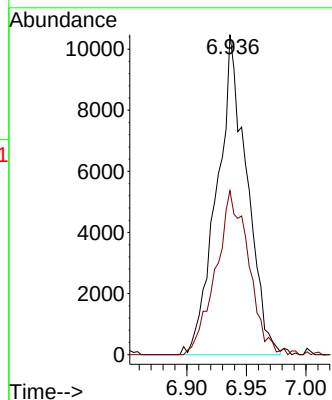
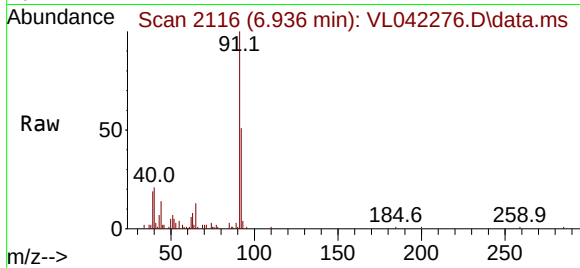
SSSG-B2-1-04022025DUP

Tgt Ion: 91 Resp: 18286

Ion Ratio Lower Upper

91 100

92 56.6 48.4 72.6



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2718

Delta R.T. 0.009 min

Lab File: VL042276.D

Acq: 08 Apr 2025 23:13

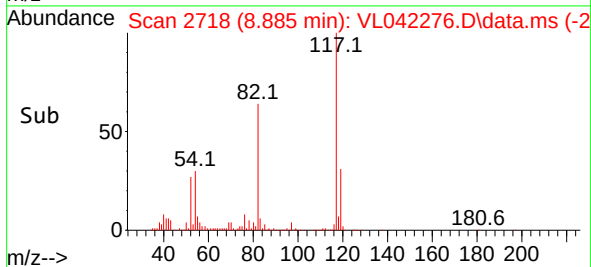
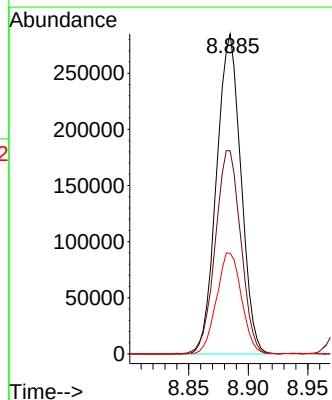
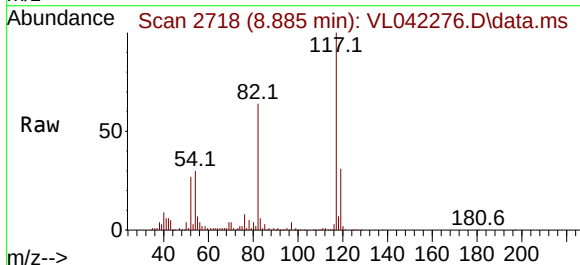
Tgt Ion: 117 Resp: 405082

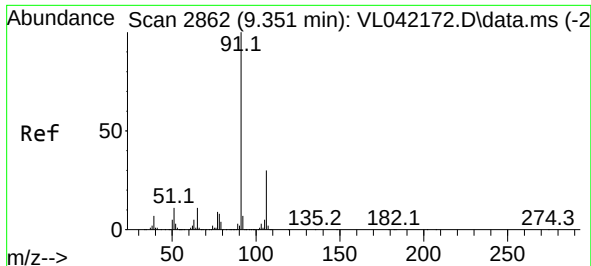
Ion Ratio Lower Upper

117 100

82 66.7 55.8 83.6

119 32.7 25.5 38.3





#58

Ethyl Benzene

Concen: 0.502 ppbv

RT: 9.357 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL042276.D

Acq: 08 Apr 2025 23:13

Instrument :

MSVOA_L

ClientSampleId :

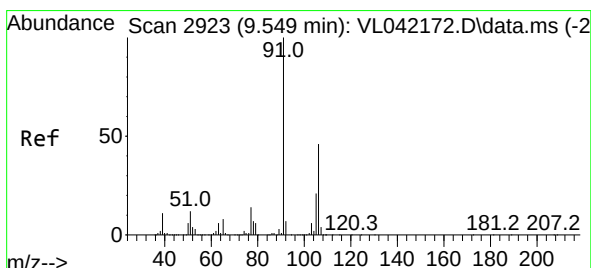
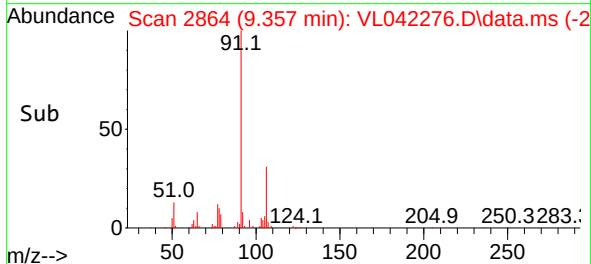
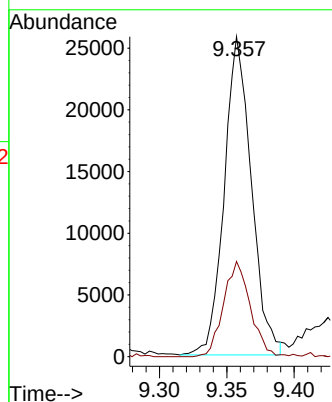
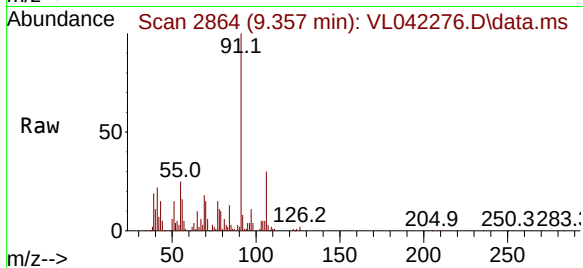
SSSG-B2-1-04022025DUP

Tgt Ion: 91 Resp: 36098

Ion Ratio Lower Upper

91 100

106 29.9 24.2 36.2



#59

m/p-Xylene

Concen: 8.664 ppbv

RT: 9.532 min Scan# 2918

Delta R.T. -0.016 min

Lab File: VL042276.D

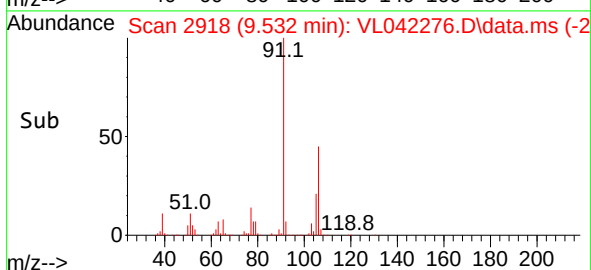
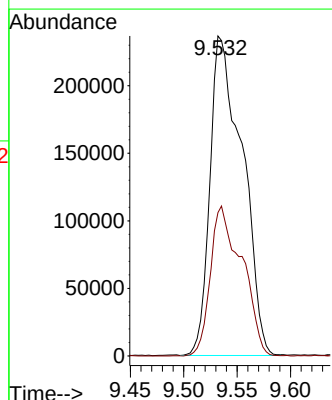
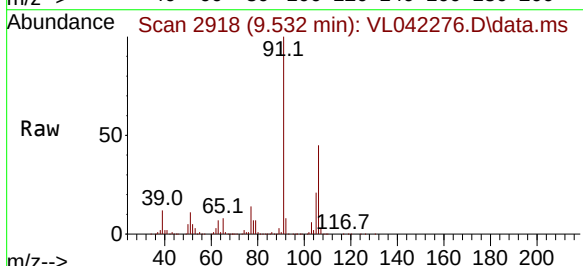
Acq: 08 Apr 2025 23:13

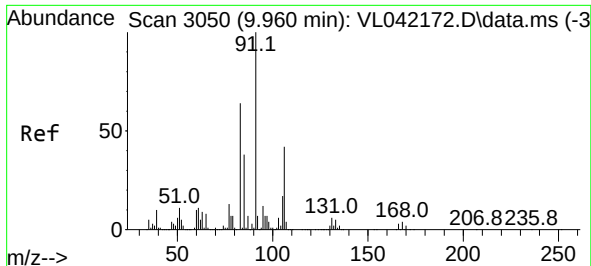
Tgt Ion: 91 Resp: 497808

Ion Ratio Lower Upper

91 100

106 45.8 36.4 54.6

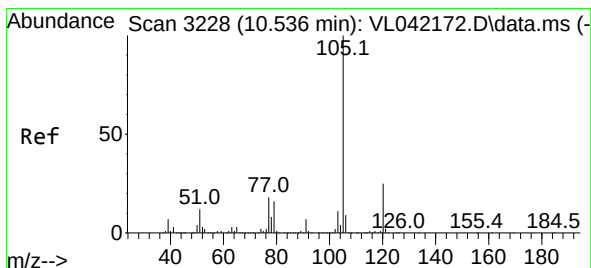
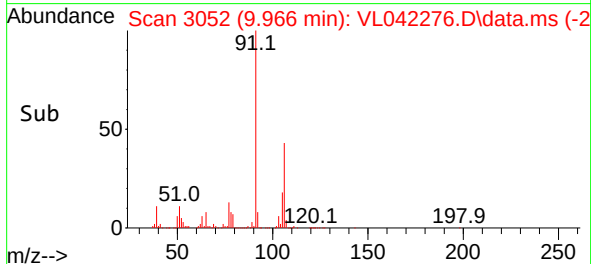
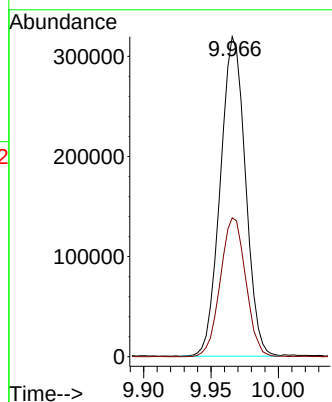
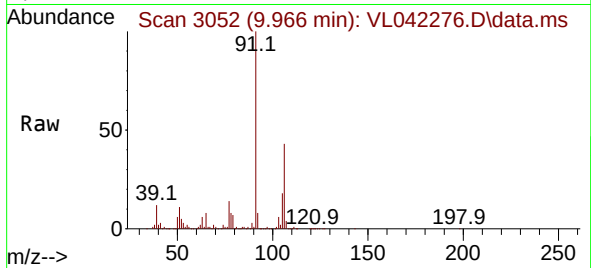




#60
o-Xylene
Concen: 7.197 ppbv
RT: 9.966 min Scan# 3050
Delta R.T. 0.006 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

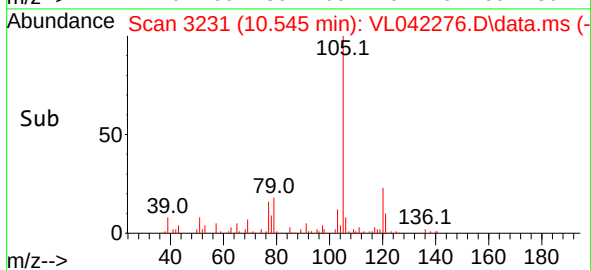
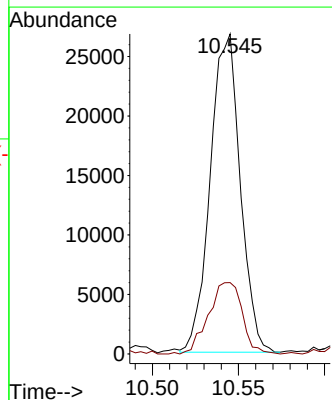
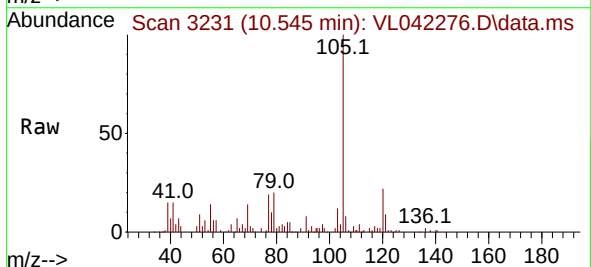
Instrument : MSVOA_1
ClientSampleId : SSSG-B2-1-04022025DUP

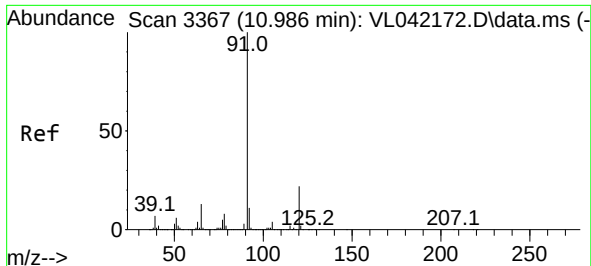
Tgt Ion: 91 Resp: 414511
Ion Ratio Lower Upper
91 100
106 44.0 20.8 62.5



#62
Isopropylbenzene
Concen: 0.376 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. 0.009 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

Tgt Ion: 105 Resp: 32420
Ion Ratio Lower Upper
105 100
120 25.5 19.9 29.9

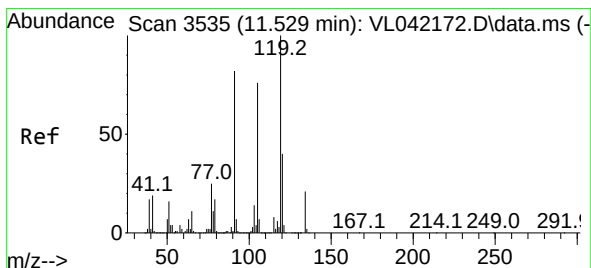
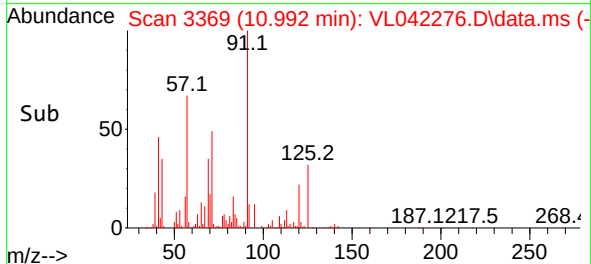
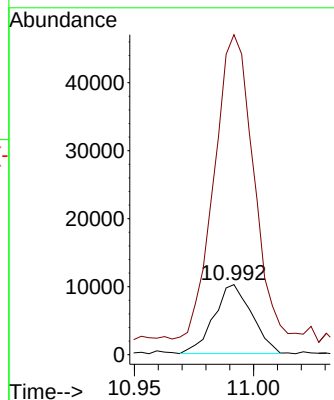
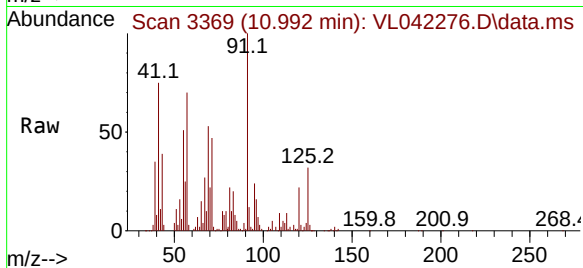




#64
n-propylbenzene
Concen: 0.505 ppbv
RT: 10.992 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

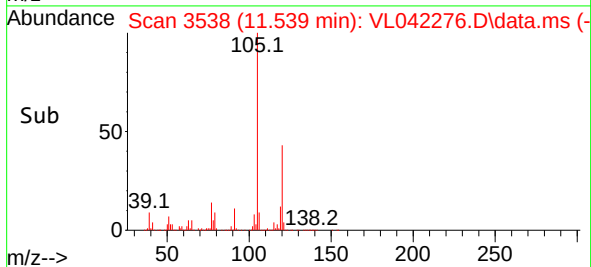
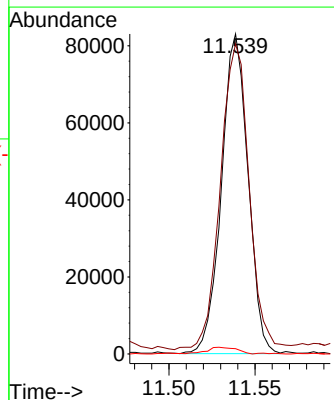
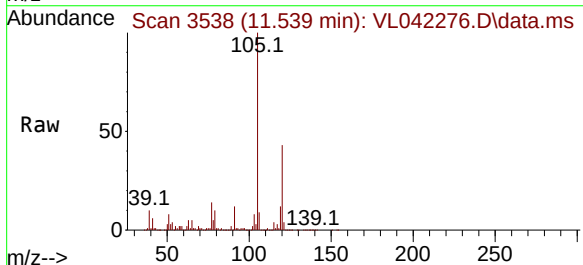
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025DUP

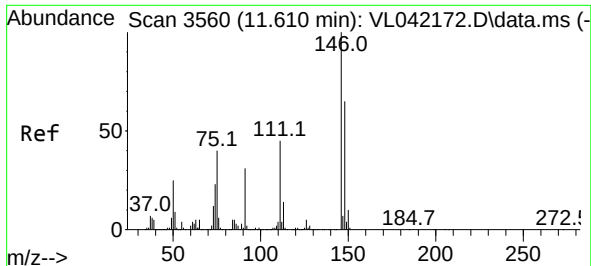
Tgt Ion:120 Resp: 11198
Ion Ratio Lower Upper
120 100
91 543.0 376.9 565.3



#65
tert-Butylbenzene
Concen: 1.121 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.009 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

Tgt Ion:119 Resp: 89265
Ion Ratio Lower Upper
119 100
91 100.8 66.0 99.0#
134 2.8 16.7 25.1#

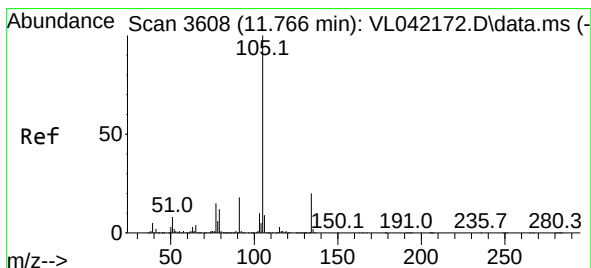
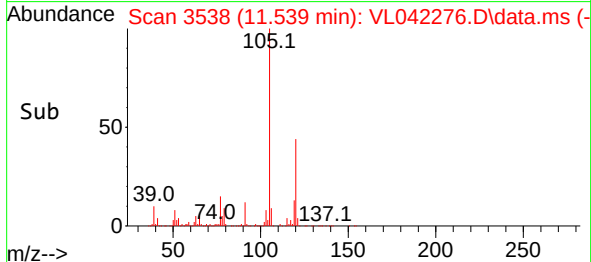
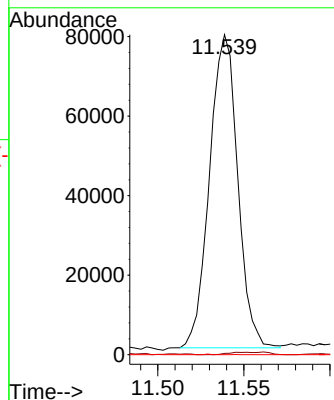
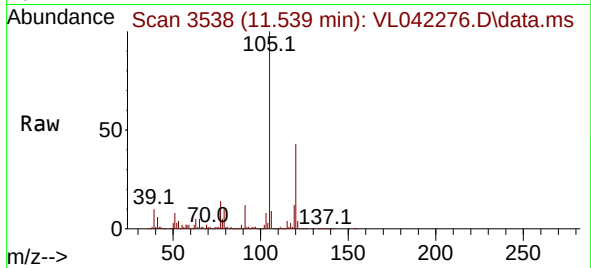




#66
Benzyl Chloride
Concen: 10.619 ppbv
RT: 11.539 min Scan# 311
Delta R.T. -0.072 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

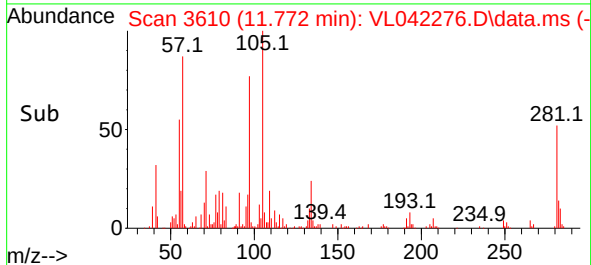
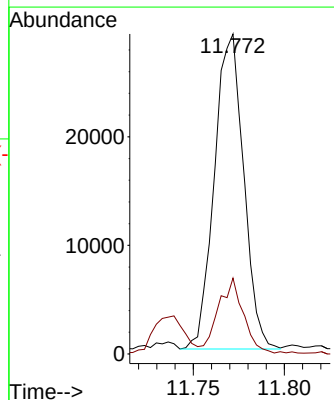
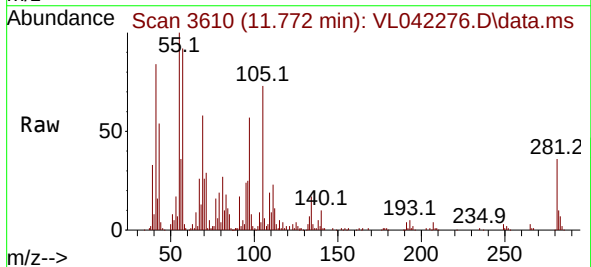
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025DUP

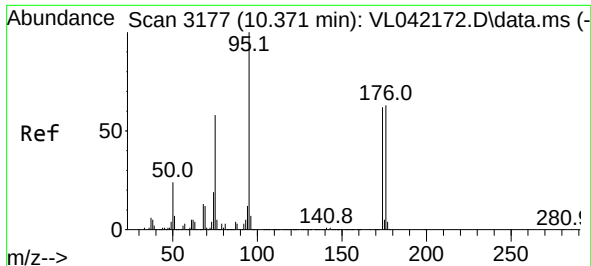
Tgt Ion: 91 Resp: 89753
Ion Ratio Lower Upper
91 100
126 1.1 13.8 20.6#
128 0.1 4.5 6.7#



#67
sec-Butylbenzene
Concen: 0.293 ppbv
RT: 11.772 min Scan# 3610
Delta R.T. 0.006 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

Tgt Ion: 105 Resp: 32418
Ion Ratio Lower Upper
105 100
134 34.7 15.5 23.3#

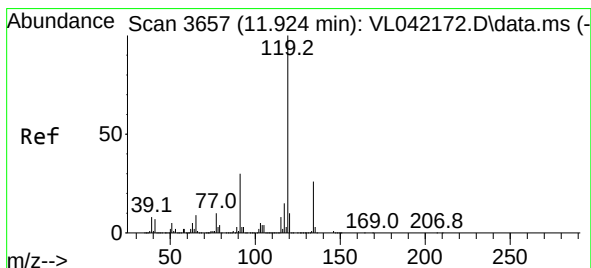
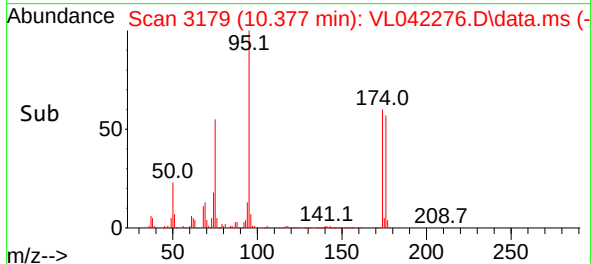
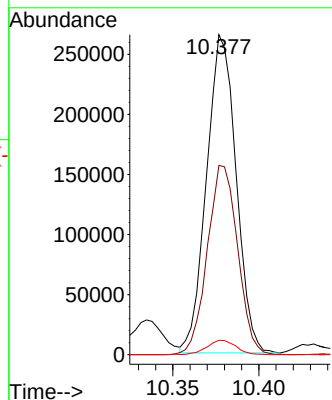
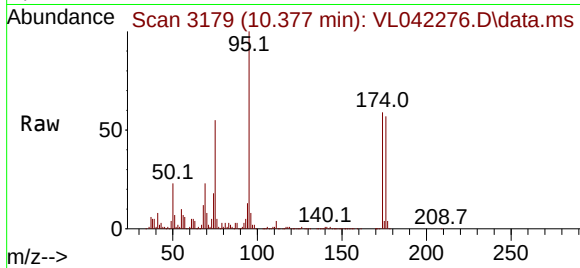




#68
1-Bromo-4-Fluorobenzene
Concen: 9.522 ppbv
RT: 10.377 min Scan# 3177
Delta R.T. 0.006 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

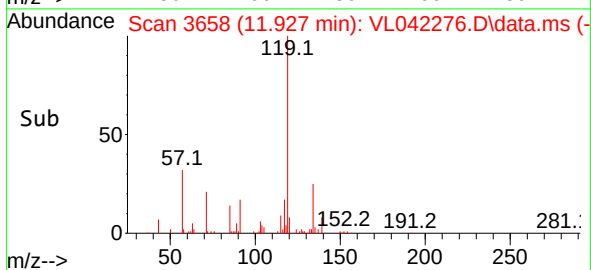
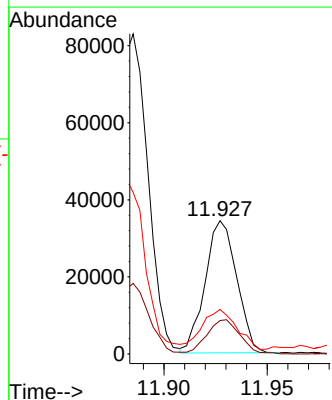
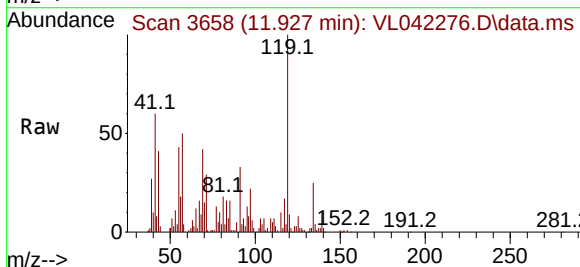
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025DUP

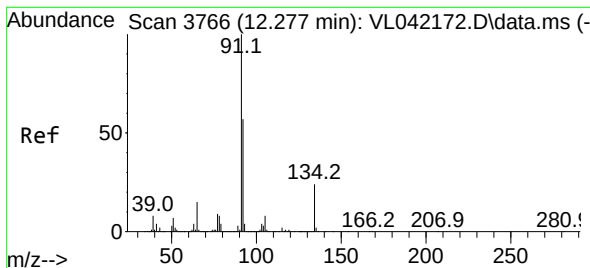
Tgt Ion: 95 Resp: 316771
Ion Ratio Lower Upper
95 100
174 61.0 50.6 76.0
175 4.5 3.8 5.6



#69
p-Isopropyltoluene
Concen: 0.384 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.003 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

Tgt Ion: 119 Resp: 36608
Ion Ratio Lower Upper
119 100
134 27.0 20.4 30.6
91 29.5 23.7 35.5





#70

n-Butylbenzene

Concen: 0.246 ppbv

RT: 12.296 min Scan# 31

Delta R.T. 0.019 min

Lab File: VL042276.D

Acq: 08 Apr 2025 23:13

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-1-04022025DUP

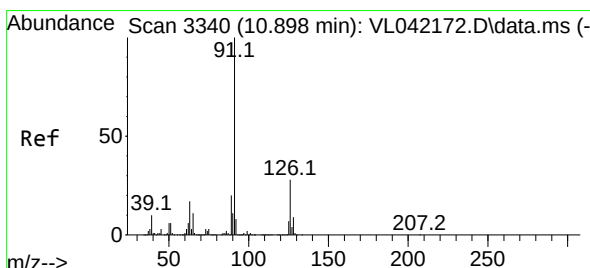
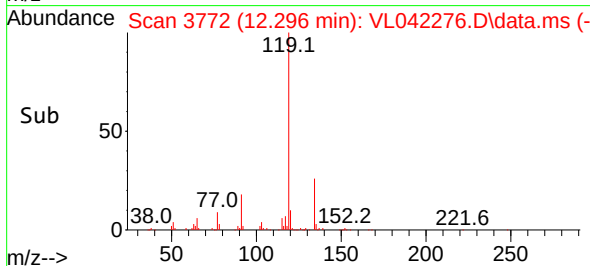
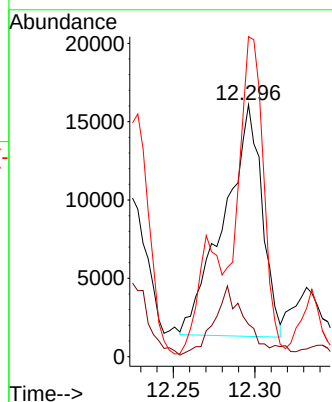
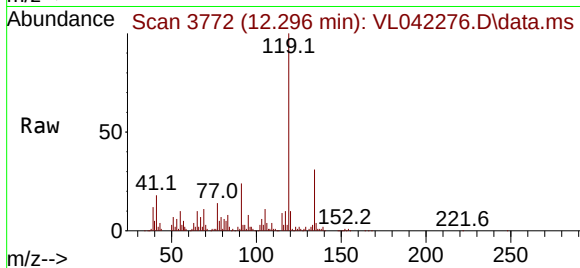
Tgt Ion: 91 Resp: 23950

Ion Ratio Lower Upper

91 100

92 25.5 44.9 67.3#

134 123.7 19.2 28.8#



#71

2-Chlorotoluene

Concen: 0.810 ppbv

RT: 11.205 min Scan# 3435

Delta R.T. 0.307 min

Lab File: VL042276.D

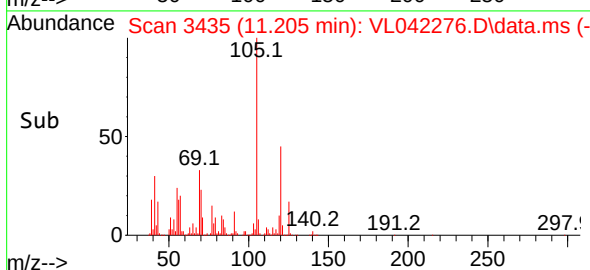
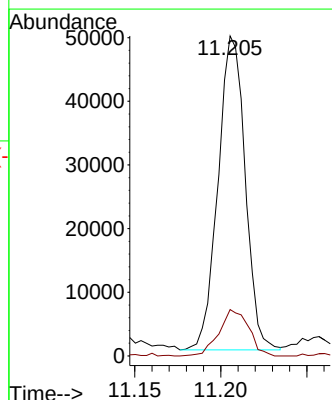
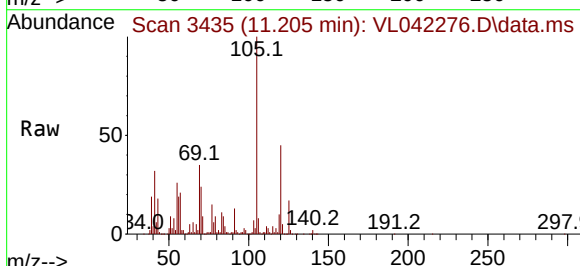
Acq: 08 Apr 2025 23:13

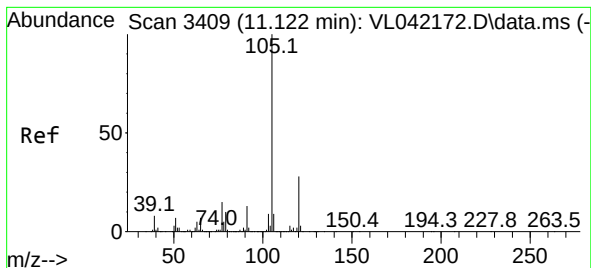
Tgt Ion: 91 Resp: 54171

Ion Ratio Lower Upper

91 100

126 16.2 11.6 46.4





#72

4-Ethyltoluene

Concen: 2.507 ppbv

RT: 11.128 min Scan# 3409

Delta R.T. 0.006 min

Lab File: VL042276.D

Acq: 08 Apr 2025 23:13

Instrument :

MSVOA_1

ClientSampleId :

SSSG-B2-1-04022025DUP

Tgt Ion:105 Resp: 179822

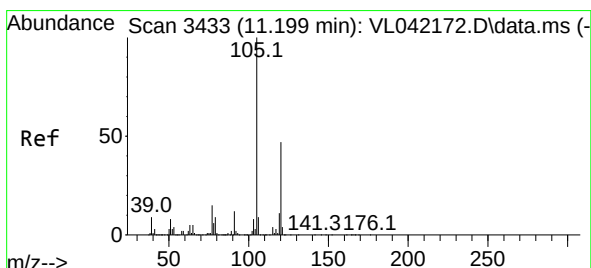
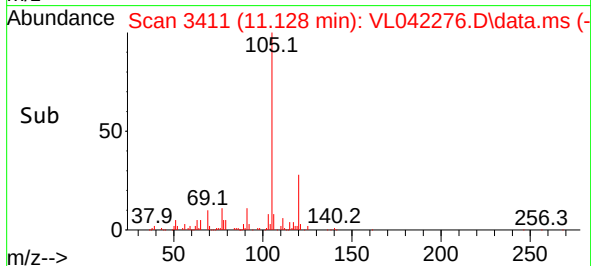
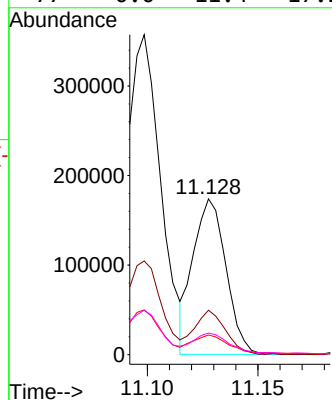
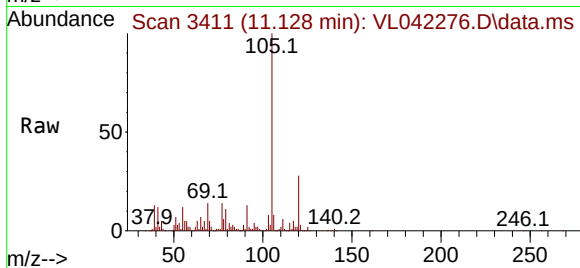
Ion Ratio Lower Upper

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: 6.977 ppbv

RT: 11.205 min Scan# 3435

Delta R.T. 0.006 min

Lab File: VL042276.D

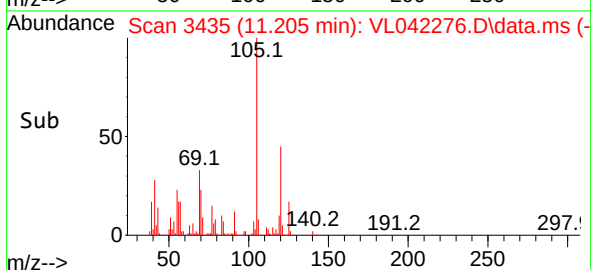
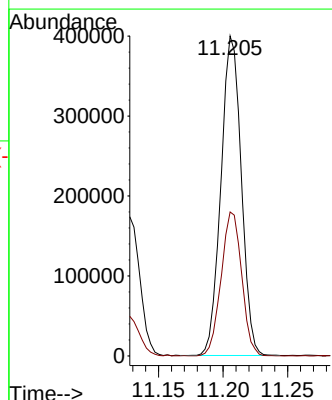
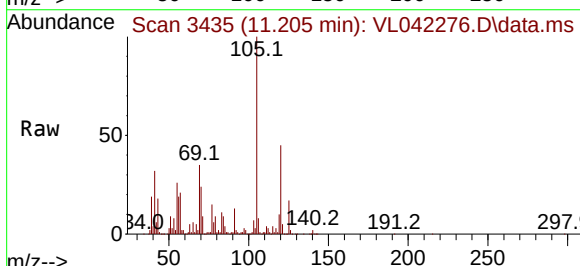
Acq: 08 Apr 2025 23:13

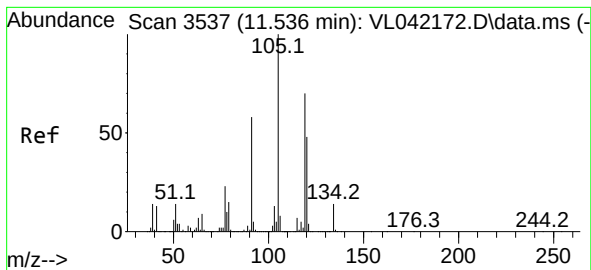
Tgt Ion:105 Resp: 436966

Ion Ratio Lower Upper

105 100

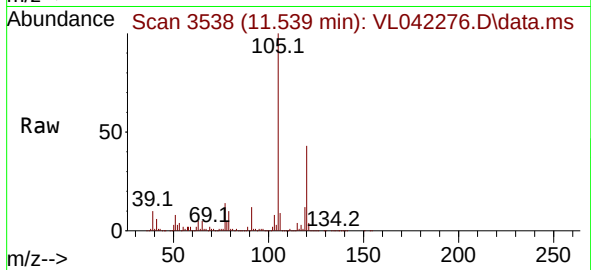
120 45.0 37.4 56.0



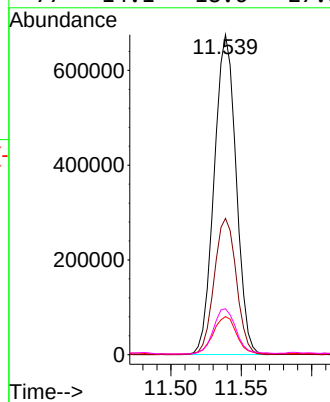
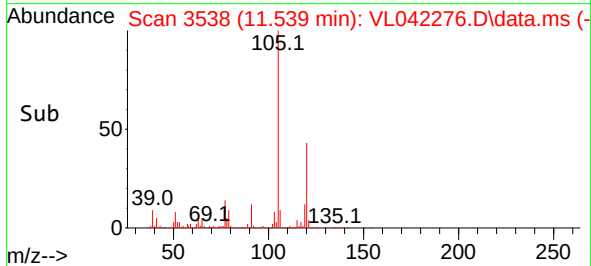


#74
 1,2,4-Trimethylbenzene
 Concen: 10.154 ppbv
 RT: 11.539 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: VL042276.D
 Acq: 08 Apr 2025 23:13

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-1-04022025DUP



Tgt Ion:	105	Resp:	732665
Ion	Ratio	Lower	Upper
105	100		
120	42.6	38.6	58.0
91	11.7	46.2	69.2#
77	14.1	18.6	27.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042277.D
 Acq On : 08 Apr 2025 23:44
 Operator : SY/MD
 Sample : Q1728-01 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B14-2-04012025

Quant Time: Apr 09 02:02:31 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)

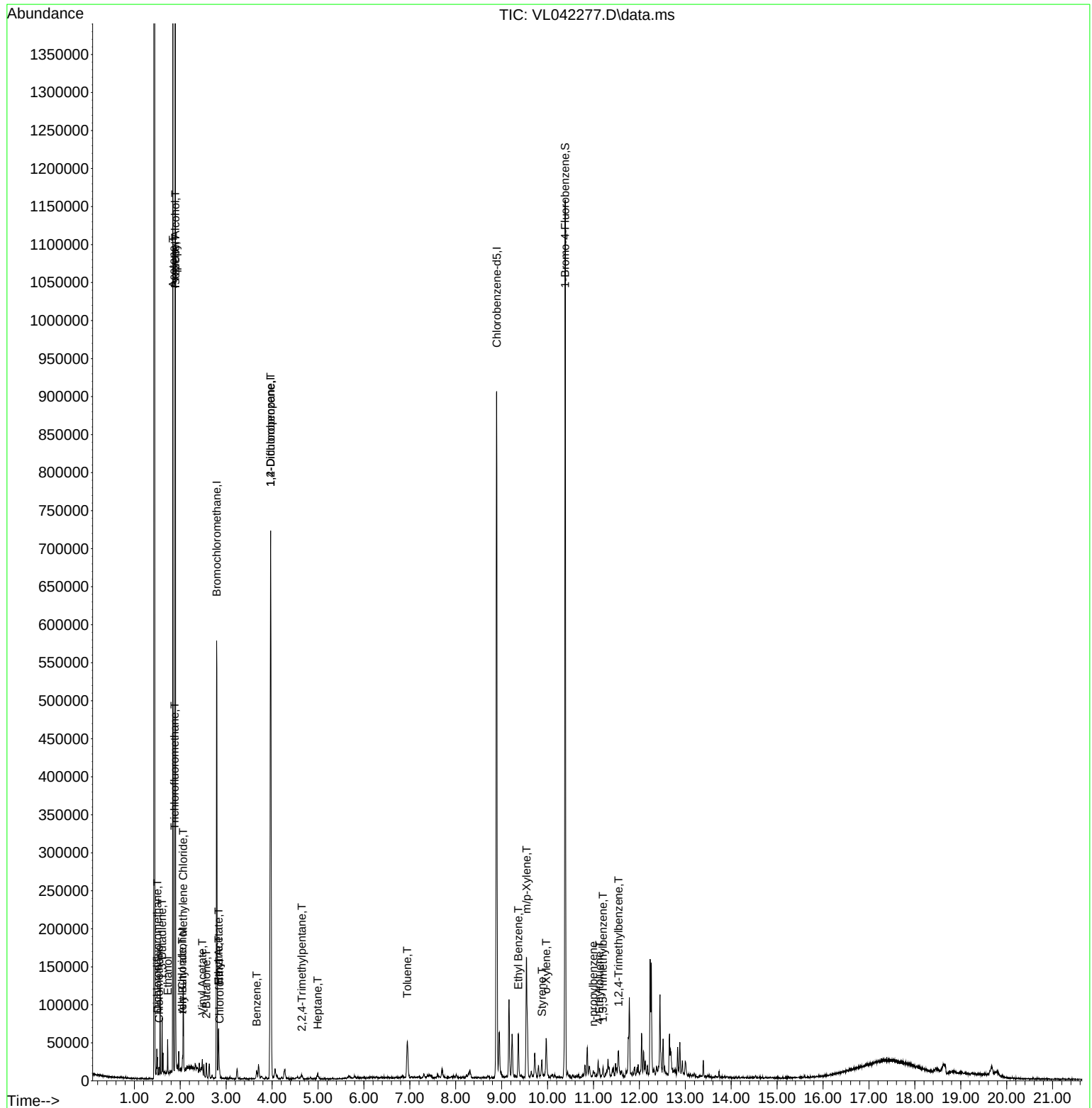
Internal Standards						
1) Bromochloromethane	2.793	49	164142	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	421001	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.891	117	366383	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	289703	9.629	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	5920	0.244	ppbv	89
4) Chloromethane	1.534	50	2769	0.280	ppbv	95
9) Propene	1.890	41	101033	8.903	ppbv	90
10) Heptane	4.991	43	980	0.032	ppbv #	28
11) Trichlorofluoromethane	1.881	101	2451	0.104	ppbv	86
13) Ethanol	1.725	45	15149	14.122	ppbv	79
15) Acetone	1.839	43	611384	26.633	ppbv	96
16) 1,3-Butadiene	1.602	39	7569	0.675	ppbv #	22
17) tert-Butyl alcohol	2.049	59	6361	0.222	ppbv #	90
19) Isopropyl Alcohol	1.890	45	1073145	82.853	ppbv #	31
20) Methylene Chloride	2.065	84	17035	1.992	ppbv	93
21) Allyl Chloride	2.046	41	2171	0.134	ppbv #	23
23) Vinyl Acetate	2.479	43	5468	0.550	ppbv #	66
25) Ethyl Acetate	2.835	43	12361	0.207	ppbv #	89
26) Hexane	2.832	57	14226	0.618	ppbv #	38
29) Chloroform	2.855	83	3922	0.116	ppbv	84
34) 2-Butanone	2.567	43	12029	0.394	ppbv	100
36) Benzene	3.664	78	6732	0.161	ppbv #	89
39) 1,2-Dichloropropane	3.968	63	106225	6.989	ppbv #	22
44) 2,2,4-Trimethylpentane	4.648	57	2225	0.032	ppbv #	1
53) Toluene	6.943	91	35716	0.722	ppbv	97
58) Ethyl Benzene	9.364	91	30797	0.473	ppbv	92
59) m/p-Xylene	9.542	91	95378	1.835	ppbv	99
60) o-Xylene	9.969	91	22277	0.428	ppbv	96
61) Styrene	9.875	104	6538	0.254	ppbv	92
64) n-propylbenzene	10.995	120	690	0.034	ppbv	66
72) 4-Ethyltoluene	11.131	105	3486	0.054	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.209	105	2919	0.052	ppbv	95
74) 1,2,4-Trimethylbenzene	11.545	105	10923	0.167	ppbv #	66

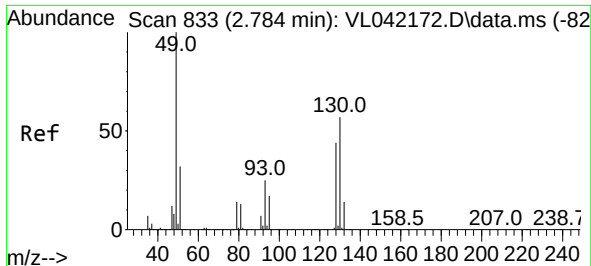
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VL042277.D  
Acq On    : 08 Apr 2025   23:44  
Operator   : SY/MD  
Sample     : Q1728-01 2X  
Misc      : 400mL/MSVOA_L  
ALS Vial   : 1      Sample Multiplier: 1
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Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025

Quant Time: Apr 09 02:02:31 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

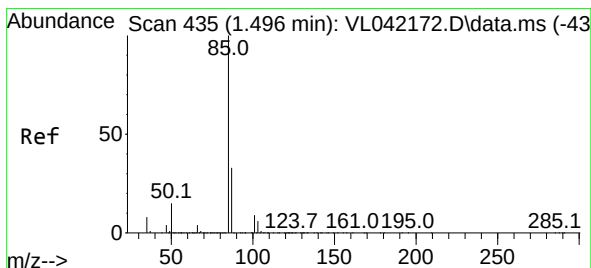
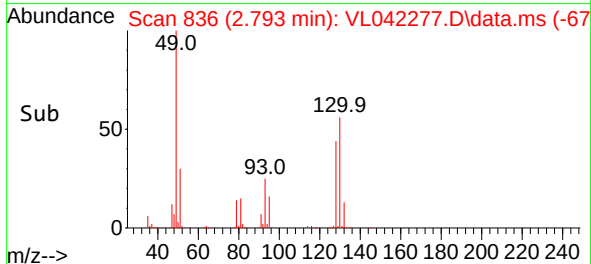
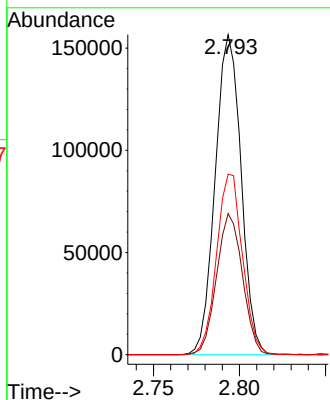
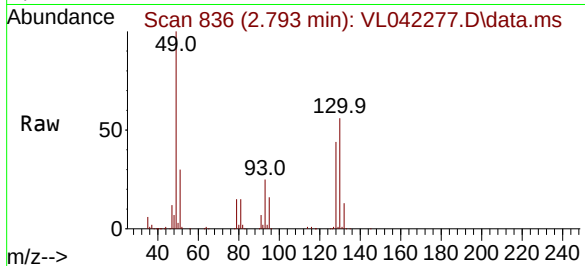




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.009 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

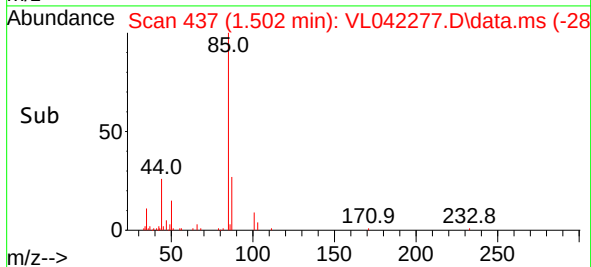
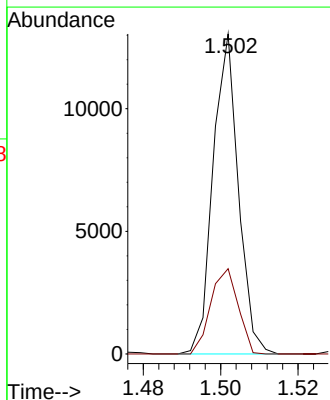
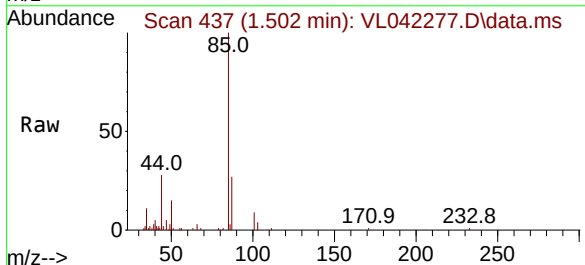
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025

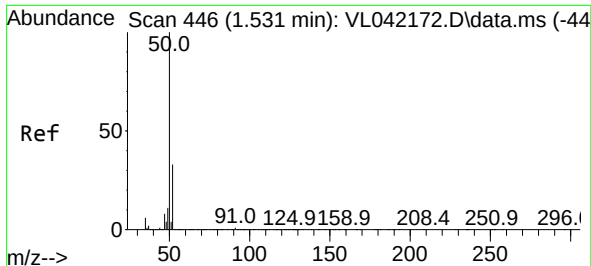
Tgt Ion: 49 Resp: 164142
Ion Ratio Lower Upper
49 100
128 44.0 22.9 68.5
130 56.5 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.244 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Tgt Ion: 85 Resp: 5920
Ion Ratio Lower Upper
85 100
87 26.7 26.1 39.1

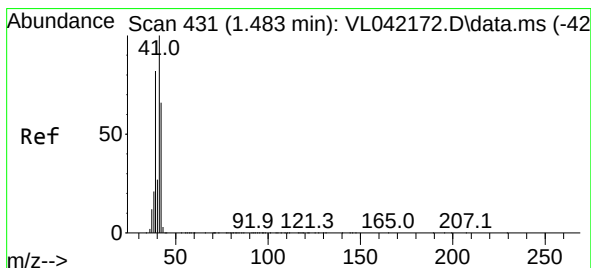
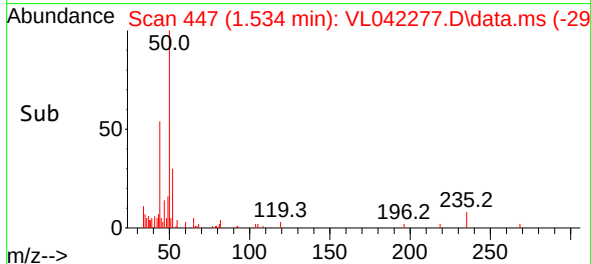
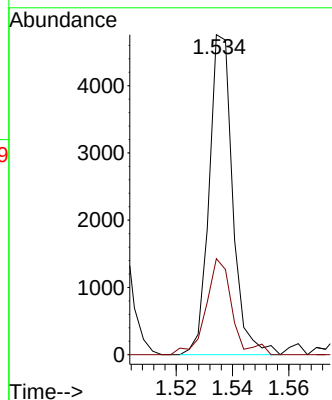
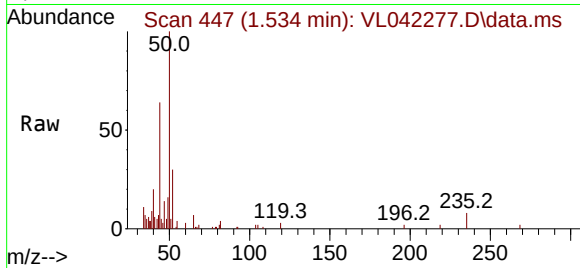




#4
Chloromethane
Concen: 0.280 ppbv
RT: 1.534 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

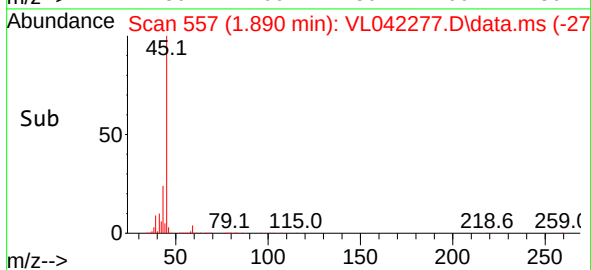
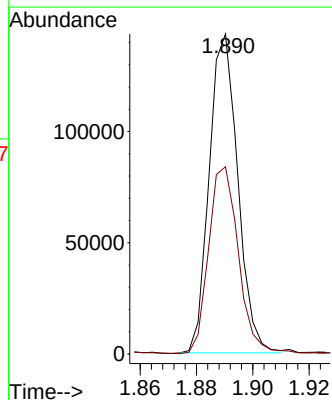
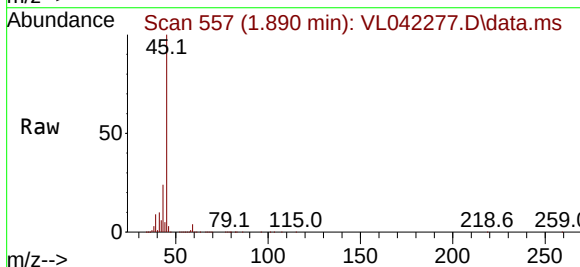
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ClientSampleId :
SSSG-B14-2-04012025

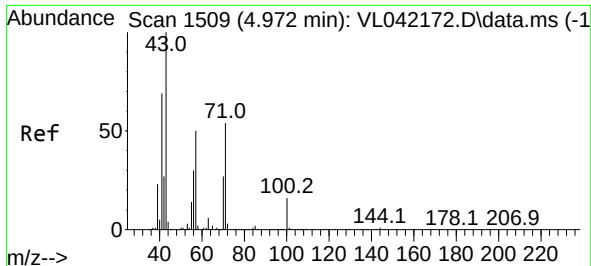
Tgt Ion: 50 Resp: 2769
Ion Ratio Lower Upper
50 100
52 30.0 26.1 39.1



#9
Propene
Concen: 8.903 ppbv
RT: 1.890 min Scan# 557
Delta R.T. 0.407 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Tgt Ion: 41 Resp: 101033
Ion Ratio Lower Upper
41 100
42 61.0 55.4 83.2

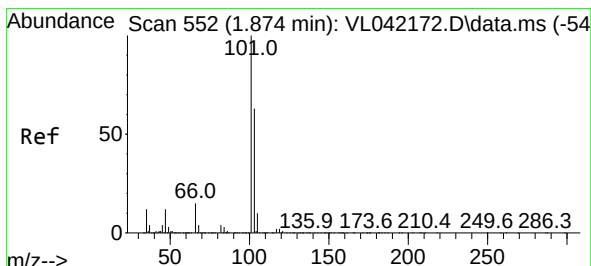
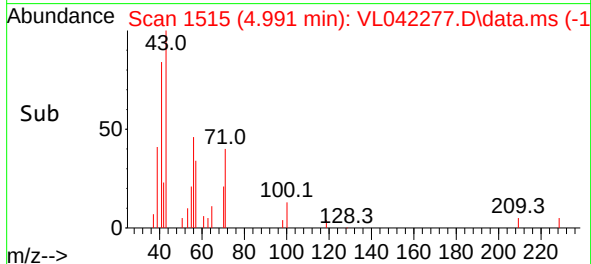
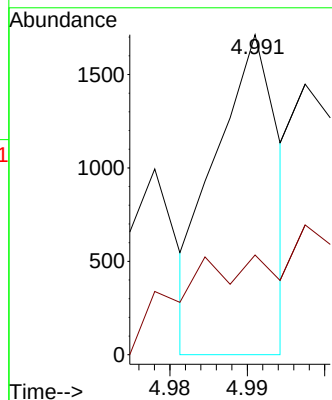
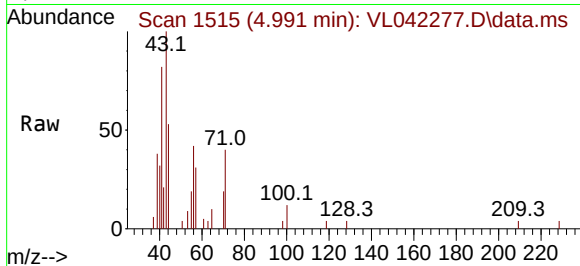




#10
 Heptane
 Concen: 0.032 ppbv
 RT: 4.991 min Scan# 11
 Delta R.T. 0.019 min
 Lab File: VL042277.D
 Acq: 08 Apr 2025 23:44

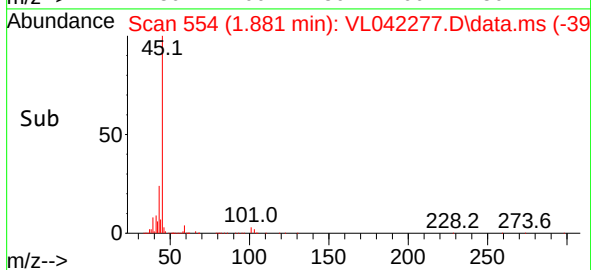
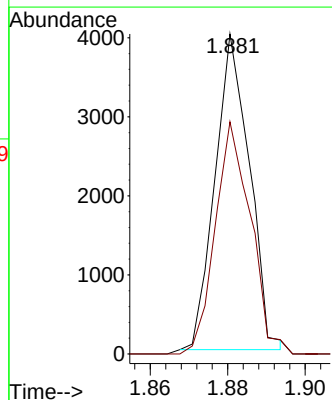
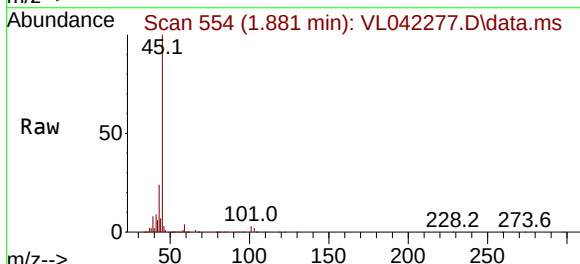
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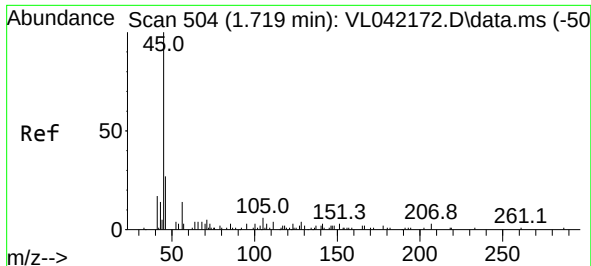
Tgt Ion: 43 Resp: 980
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.4 59.2#



#11
 Trichlorofluoromethane
 Concen: 0.104 ppbv
 RT: 1.881 min Scan# 554
 Delta R.T. 0.006 min
 Lab File: VL042277.D
 Acq: 08 Apr 2025 23:44

Tgt Ion: 101 Resp: 2451
 Ion Ratio Lower Upper
 101 100
 103 73.5 50.2 75.2

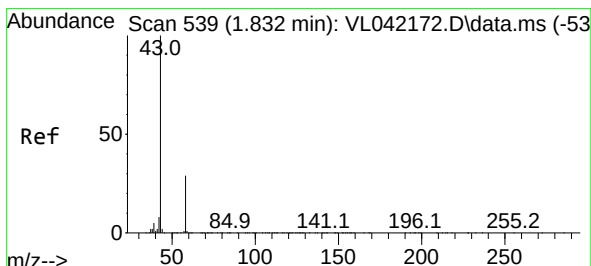
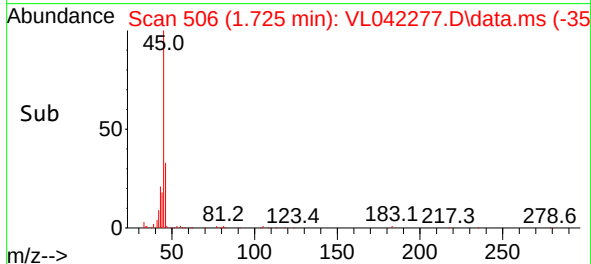
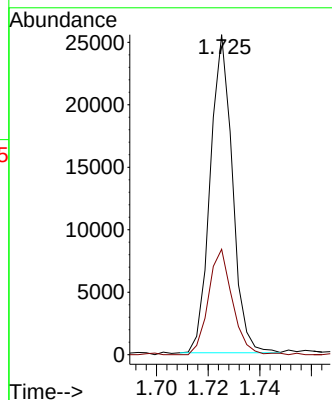
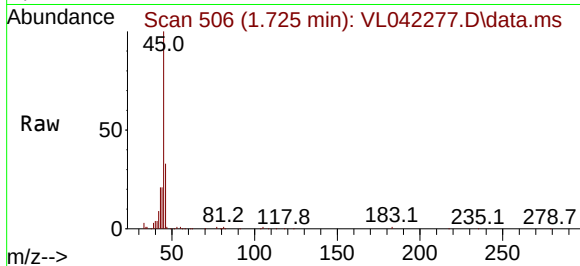




#13
Ethanol
Concen: 14.122 ppbv
RT: 1.725 min Scan# 504
Delta R.T. 0.006 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

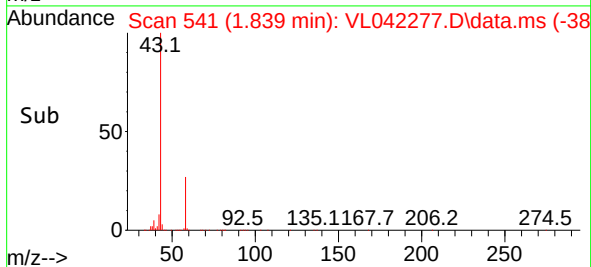
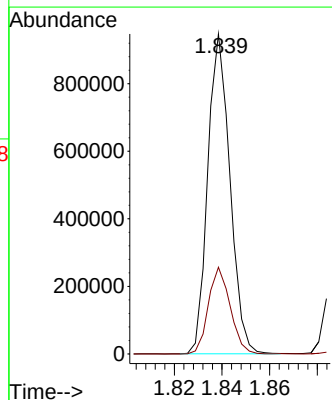
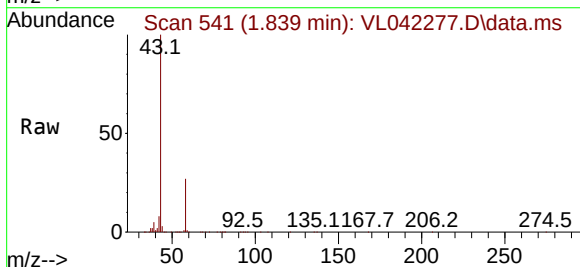
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MSVOA_1
ClientSampleId :
SSSG-B14-2-04012025

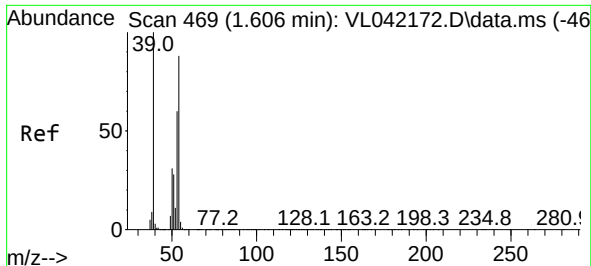
Tgt Ion: 45 Resp: 15149
Ion Ratio Lower Upper
45 100
46 36.3 20.2 80.8



#15
Acetone
Concen: 26.633 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Tgt Ion: 43 Resp: 611384
Ion Ratio Lower Upper
43 100
58 26.8 23.2 34.8





#16

1,3-Butadiene

Concen: 0.675 ppbv

RT: 1.602 min Scan# 41

Delta R.T. -0.004 min

Lab File: VL042277.D

Acq: 08 Apr 2025 23:44

Instrument :

MSVOA_L

ClientSampleId :

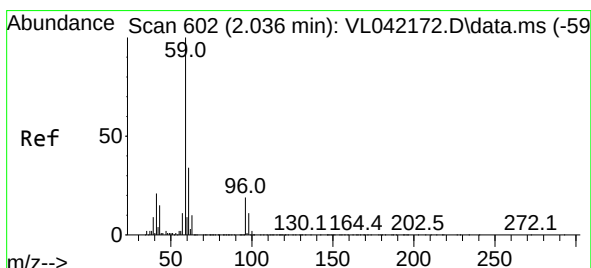
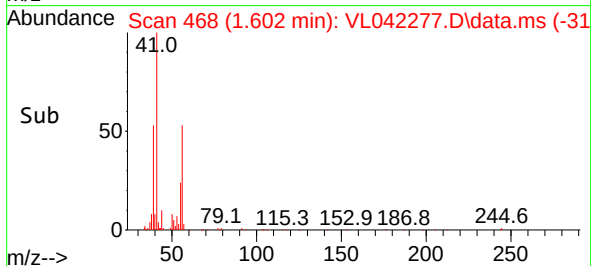
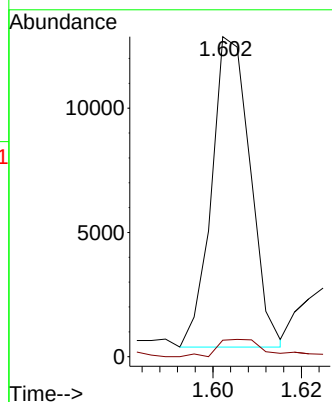
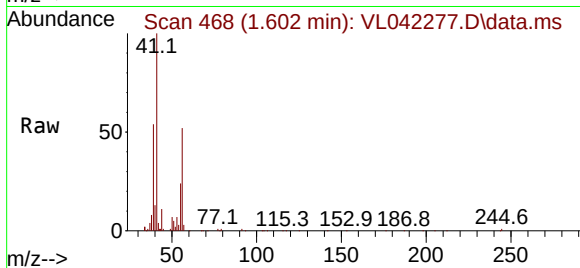
SSSG-B14-2-04012025

Tgt Ion: 39 Resp: 7569

Ion Ratio Lower Upper

39 100

54 8.7 60.7 91.1#



#17

tert-Butyl alcohol

Concen: 0.222 ppbv

RT: 2.049 min Scan# 606

Delta R.T. 0.013 min

Lab File: VL042277.D

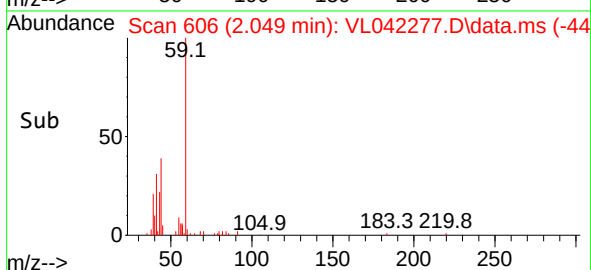
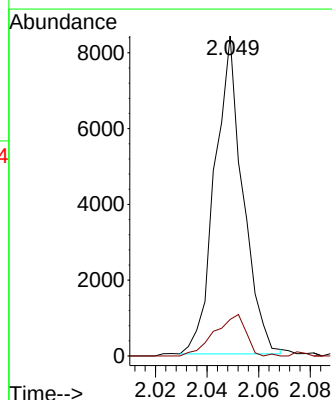
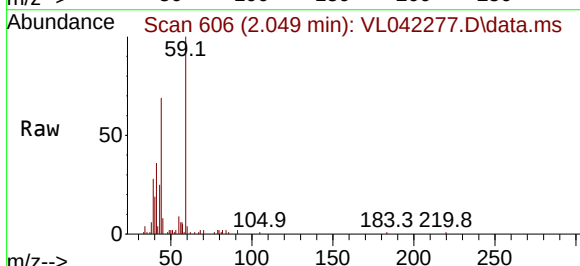
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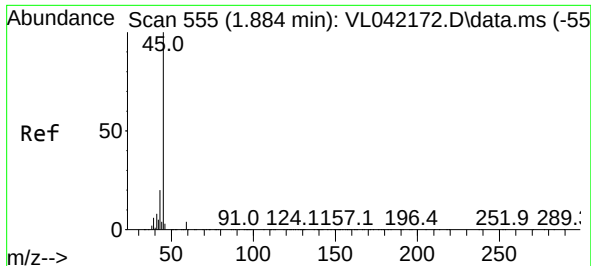
Tgt Ion: 59 Resp: 6361

Ion Ratio Lower Upper

59 100

57 15.1 8.9 13.3#

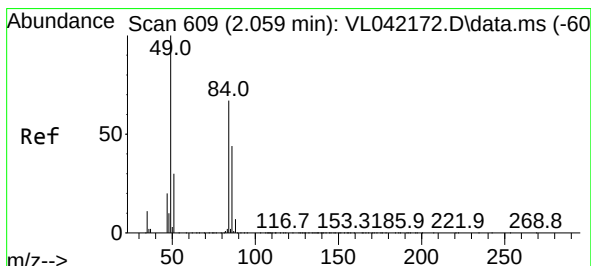
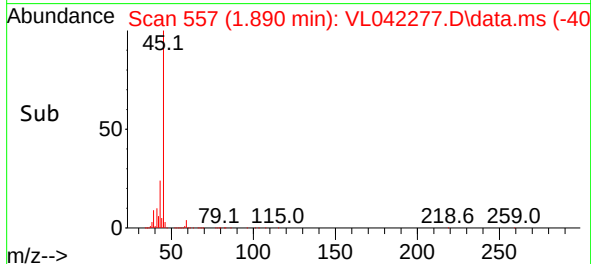
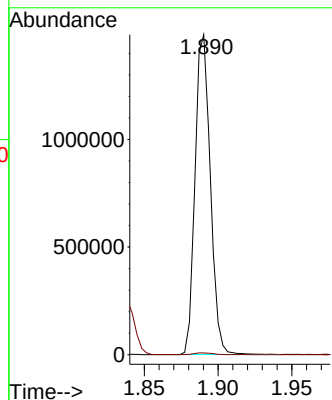
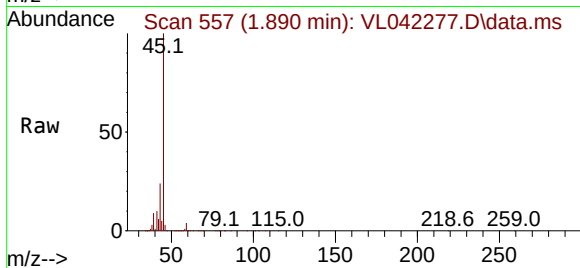




#19
Isopropyl Alcohol
Concen: 82.853 ppbv
RT: 1.890 min Scan# 51
Delta R.T. 0.006 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

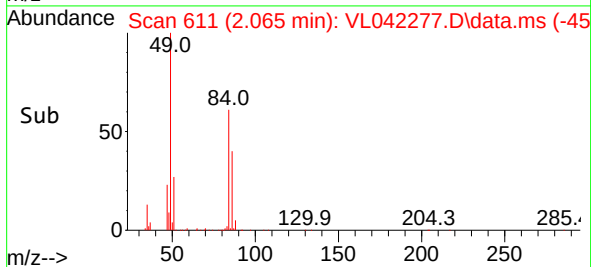
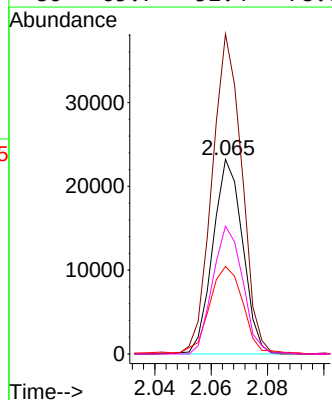
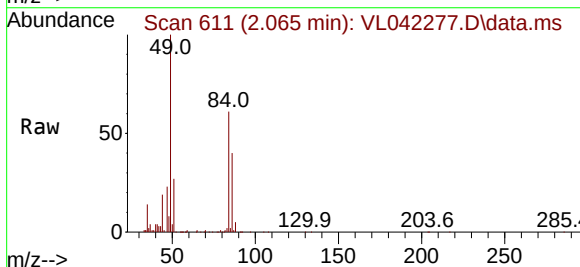
Instrument :
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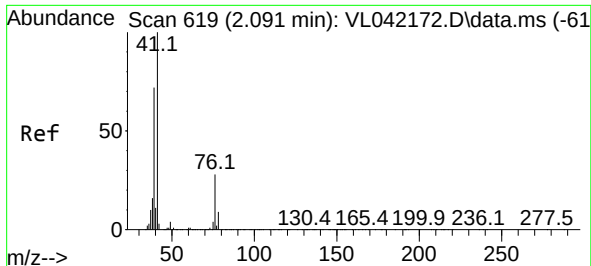
Tgt Ion: 45 Resp: 1073145
Ion Ratio Lower Upper
45 100
58 0.7 36.9 55.3#



#20
Methylene Chloride
Concen: 1.992 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Tgt Ion: 84 Resp: 17035
Ion Ratio Lower Upper
84 100
49 163.9 120.2 180.4
51 44.4 37.4 56.0
86 65.7 52.4 78.6

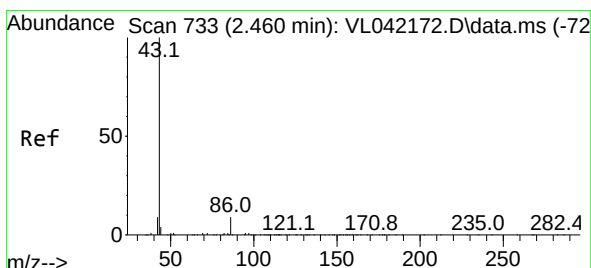
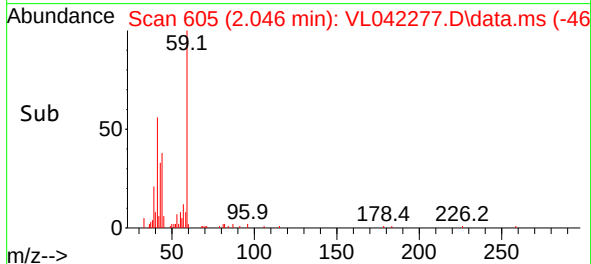
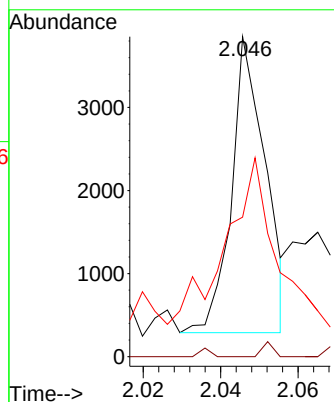
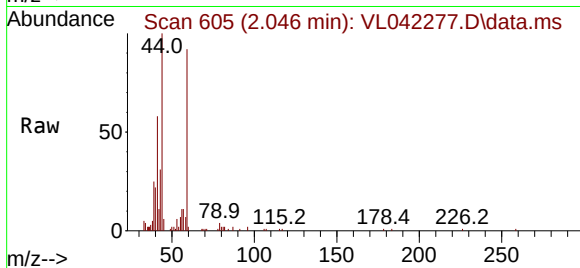




#21
 Allyl Chloride
 Concen: 0.134 ppbv
 RT: 2.046 min Scan# 619
 Delta R.T. -0.046 min
 Lab File: VL042277.D
 Acq: 08 Apr 2025 23:44

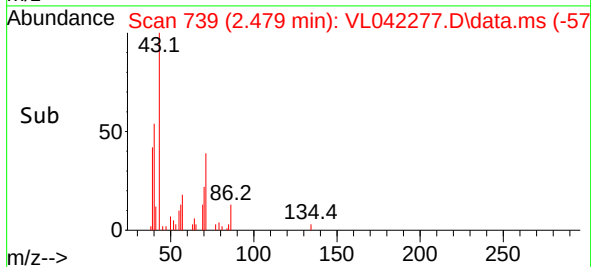
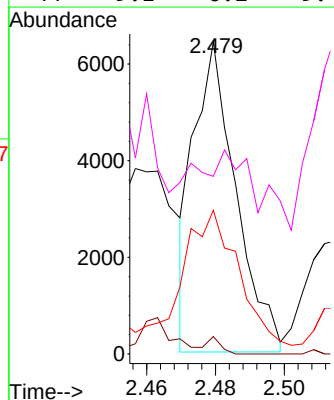
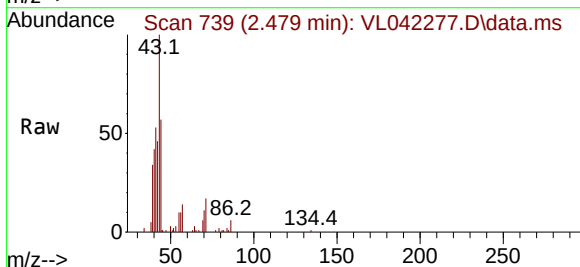
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 SSSG-B14-2-04012025

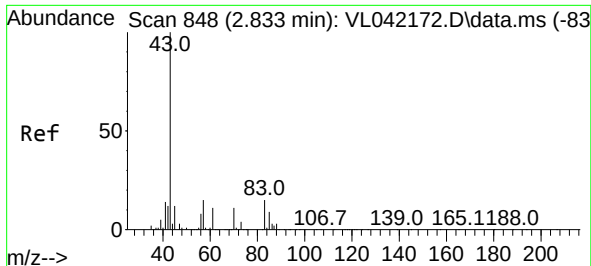
Tgt Ion: 41 Resp: 2171
 Ion Ratio Lower Upper
 41 100
 76 3.6 24.1 36.1#
 39 0.0 61.1 91.7#



#23
 Vinyl Acetate
 Concen: 0.550 ppbv
 RT: 2.479 min Scan# 739
 Delta R.T. 0.019 min
 Lab File: VL042277.D
 Acq: 08 Apr 2025 23:44

Tgt Ion: 43 Resp: 5468
 Ion Ratio Lower Upper
 43 100
 86 5.8 5.5 8.3
 42 39.6 8.6 13.0#
 44 9.1 6.2 9.4





#25

Ethyl Acetate

Concen: 0.207 ppbv

RT: 2.835 min Scan# 84

Delta R.T. 0.003 min

Lab File: VL042277.D

Acq: 08 Apr 2025 23:44

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-2-04012025

Tgt Ion: 43 Resp: 12361

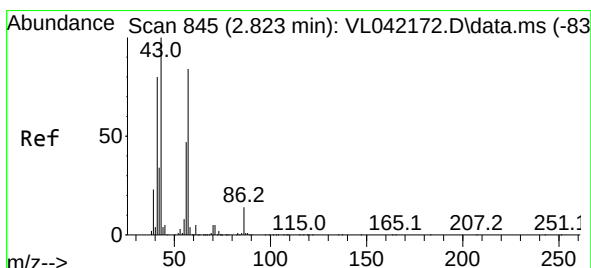
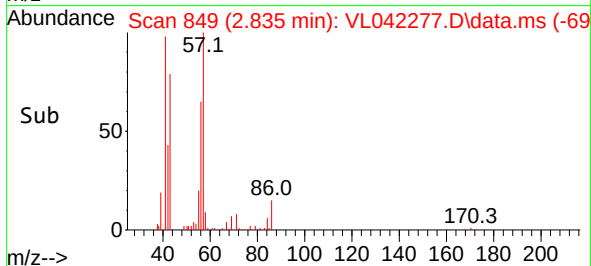
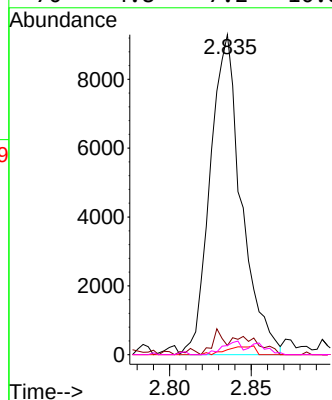
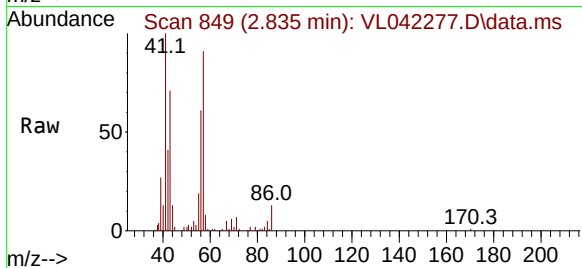
Ion Ratio Lower Upper

43 100

45 8.6 8.2 12.2

61 2.3 7.3 10.9#

70 4.8 7.2 10.8#



#26

Hexane

Concen: 0.618 ppbv

RT: 2.832 min Scan# 848

Delta R.T. 0.009 min

Lab File: VL042277.D

Acq: 08 Apr 2025 23:44

Tgt Ion: 57 Resp: 14226

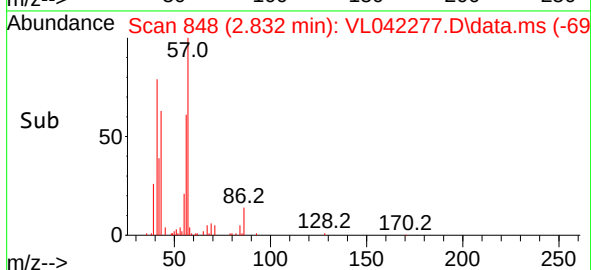
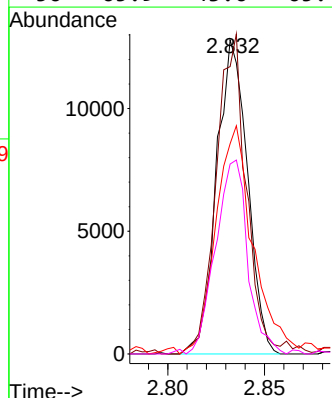
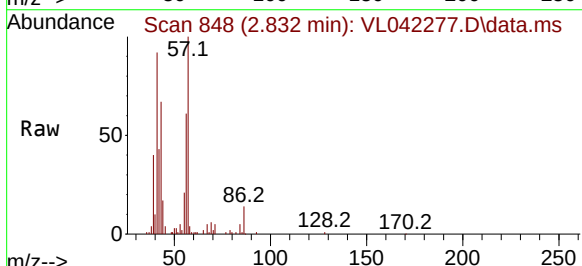
Ion Ratio Lower Upper

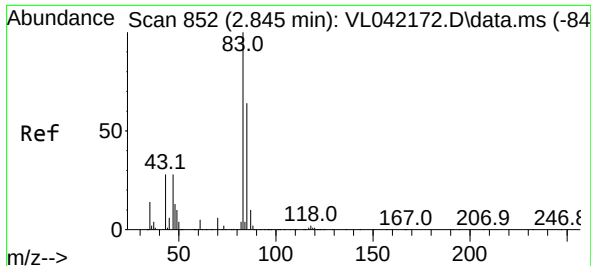
57 100

41 100.1 76.6 114.8

43 92.9 207.8 311.8#

56 65.9 43.6 65.4#

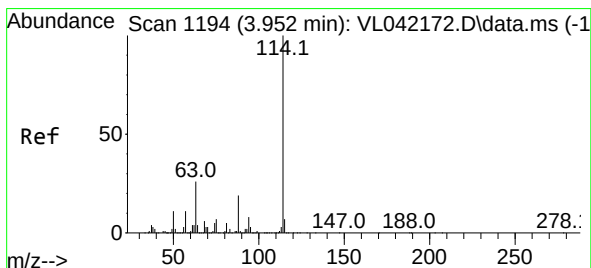
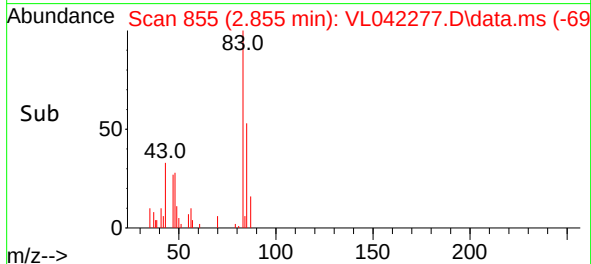
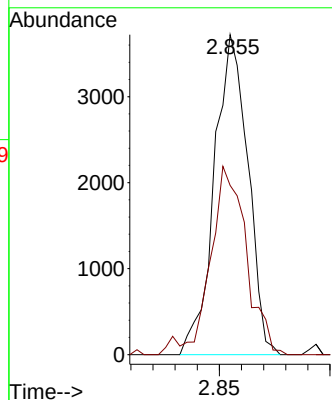
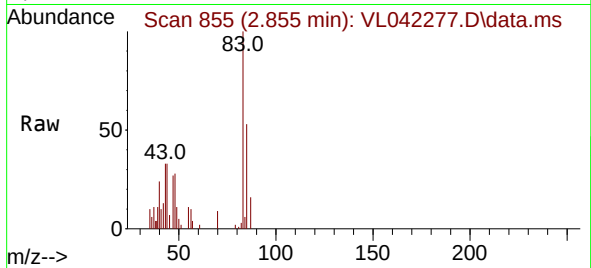




#29
Chloroform
Concen: 0.116 ppbv
RT: 2.855 min Scan# 81
Delta R.T. 0.009 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

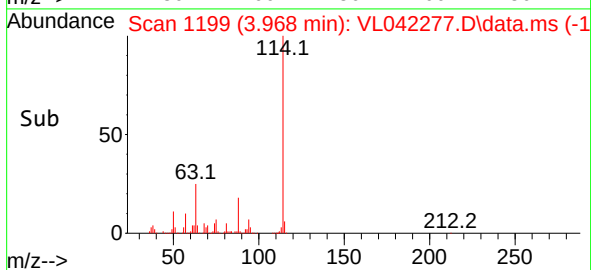
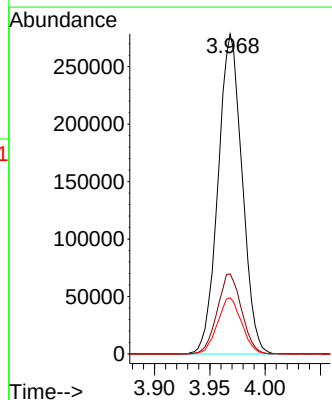
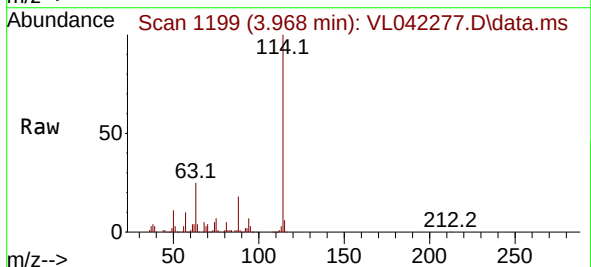
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025

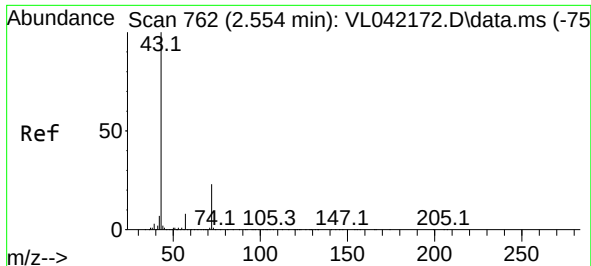
Tgt Ion: 83 Resp: 3922
Ion Ratio Lower Upper
83 100
85 51.5 51.4 77.2



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. 0.016 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Tgt Ion: 114 Resp: 421001
Ion Ratio Lower Upper
114 100
63 25.3 20.7 31.1
88 17.6 15.0 22.4

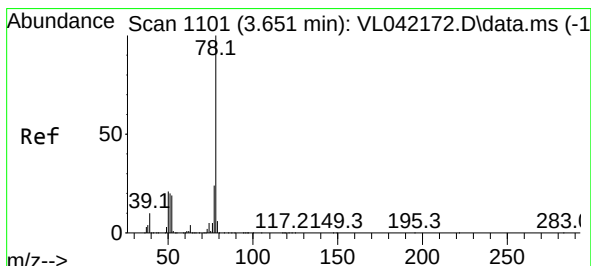
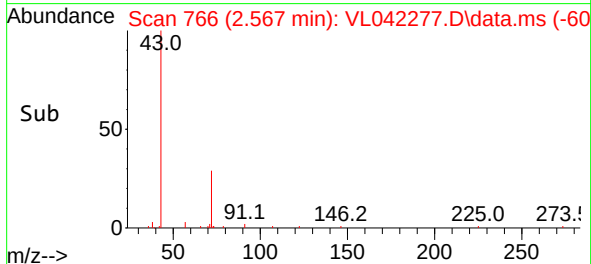
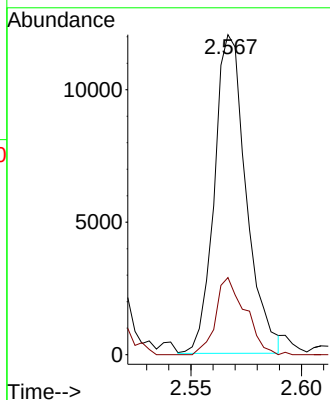
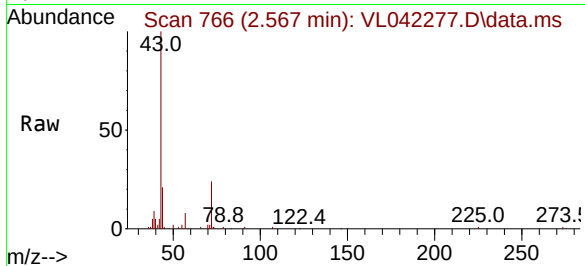




#34
2-Butanone
Concen: 0.394 ppbv
RT: 2.567 min Scan# 71
Delta R.T. 0.013 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

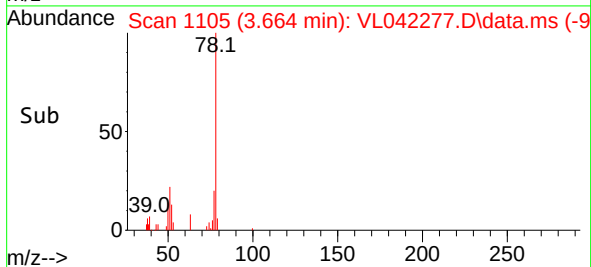
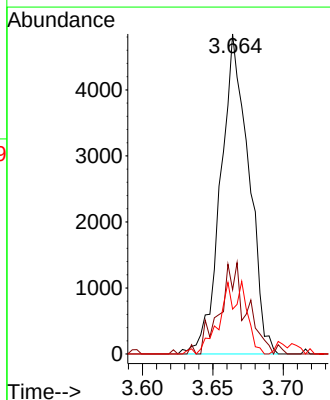
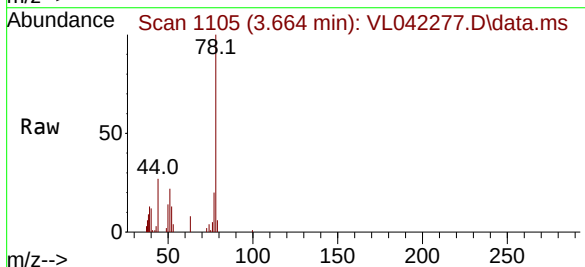
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025

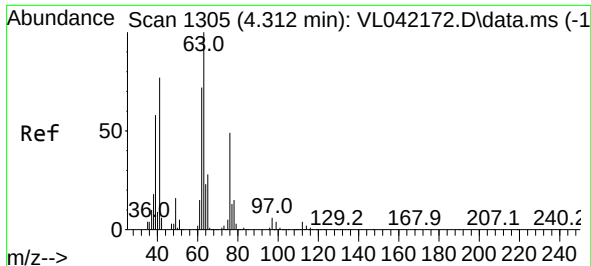
Tgt Ion: 43 Resp: 12029
Ion Ratio Lower Upper
43 100
72 22.7 18.2 27.2



#36
Benzene
Concen: 0.161 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.013 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Tgt Ion: 78 Resp: 6732
Ion Ratio Lower Upper
78 100
77 20.1 19.1 28.7
50 14.0 16.6 24.8#





#39

1,2-Dichloropropane

Concen: 6.989 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. -0.343 min

Lab File: VL042277.D

Acq: 08 Apr 2025 23:44

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-2-04012025

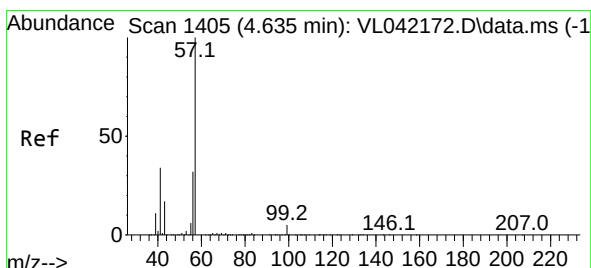
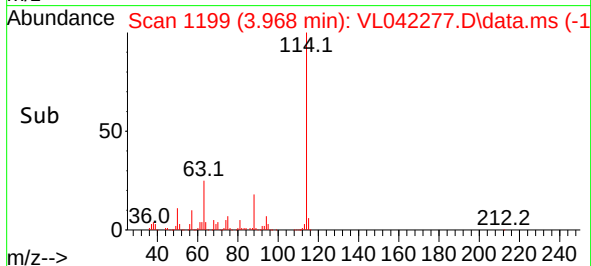
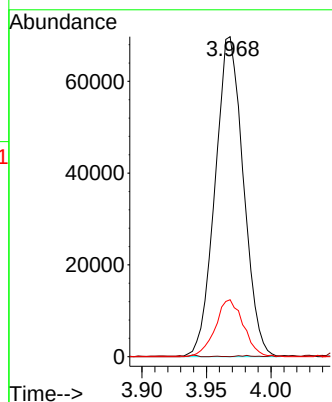
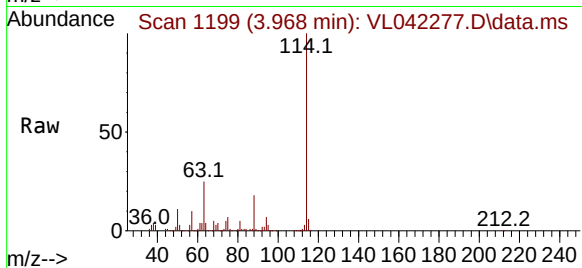
Tgt Ion: 63 Resp: 106225

Ion Ratio Lower Upper

63 100

41 0.0 61.7 92.5#

62 17.8 57.6 86.4#



#44

2,2,4-Trimethylpentane

Concen: 0.032 ppbv

RT: 4.648 min Scan# 1409

Delta R.T. 0.013 min

Lab File: VL042277.D

Acq: 08 Apr 2025 23:44

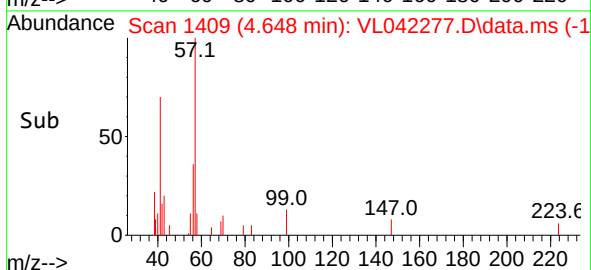
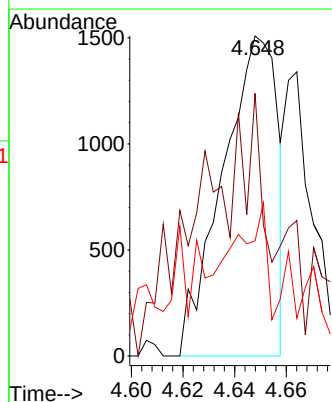
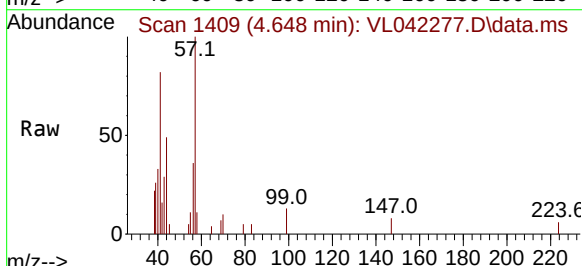
Tgt Ion: 57 Resp: 2225

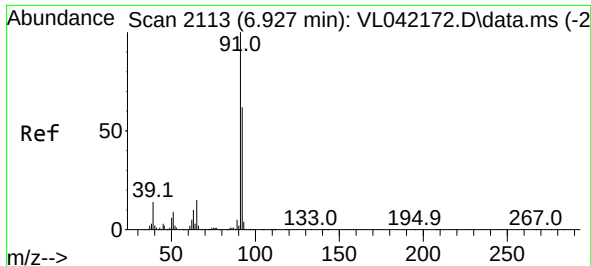
Ion Ratio Lower Upper

57 100

41 118.2 26.8 40.2#

56 84.4 25.6 38.4#

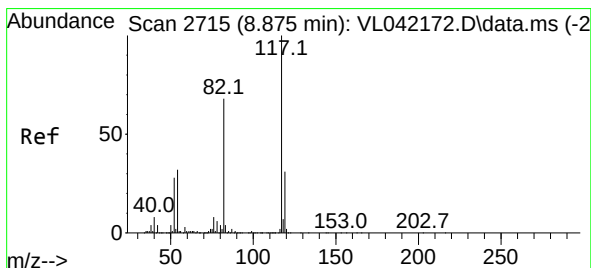
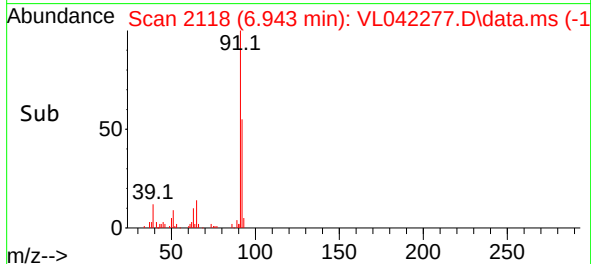
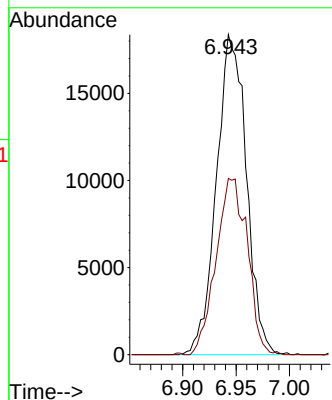
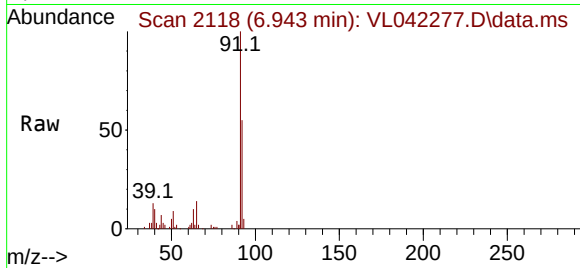




#53
Toluene
Concen: 0.722 ppbv
RT: 6.943 min Scan# 2113
Delta R.T. 0.016 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

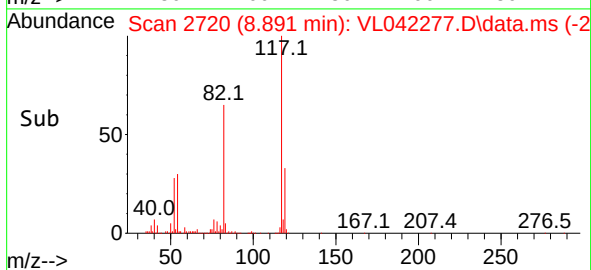
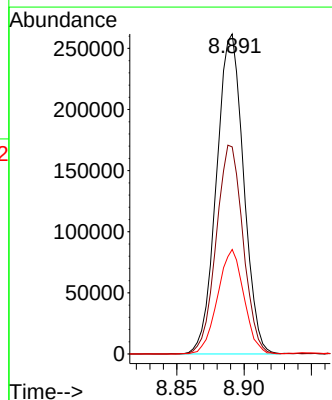
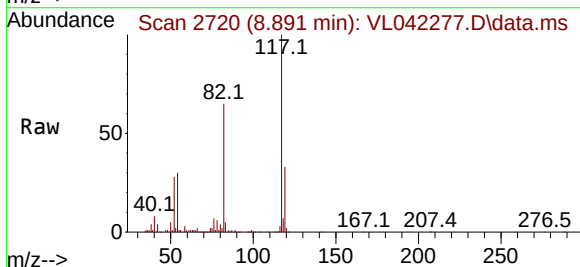
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025

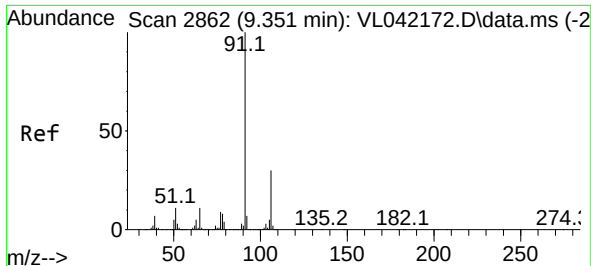
Tgt Ion: 91 Resp: 35716
Ion Ratio Lower Upper
91 100
92 57.9 48.4 72.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2720
Delta R.T. 0.016 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Tgt Ion: 117 Resp: 366383
Ion Ratio Lower Upper
117 100
82 64.9 55.8 83.6
119 31.8 25.5 38.3

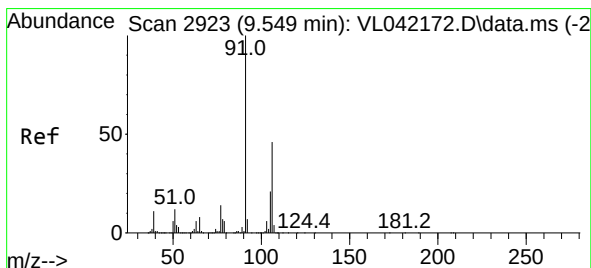
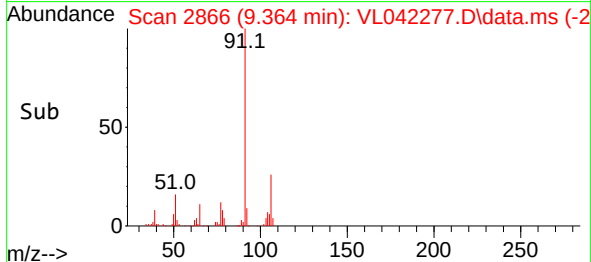
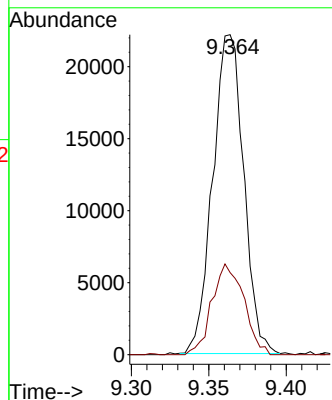
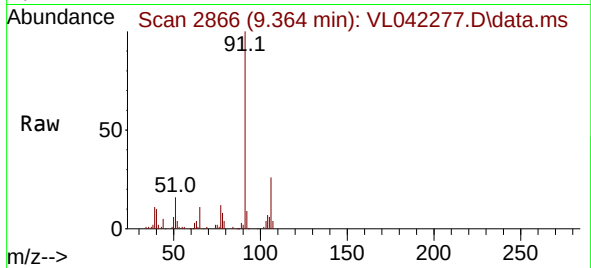




#58
Ethyl Benzene
Concen: 0.473 ppbv
RT: 9.364 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

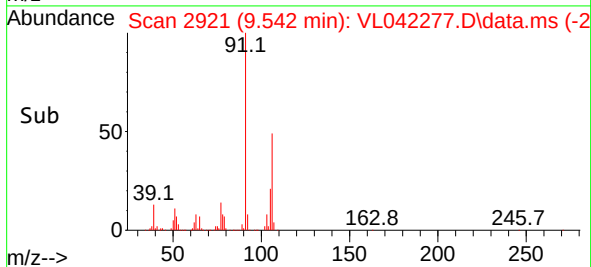
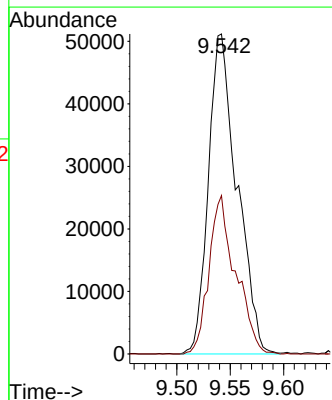
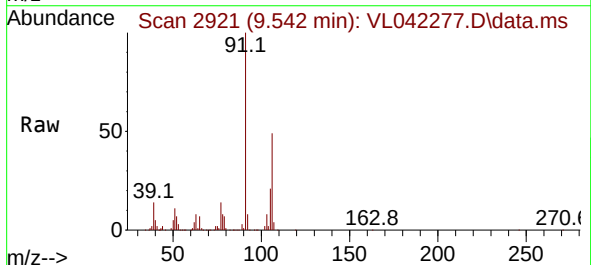
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025

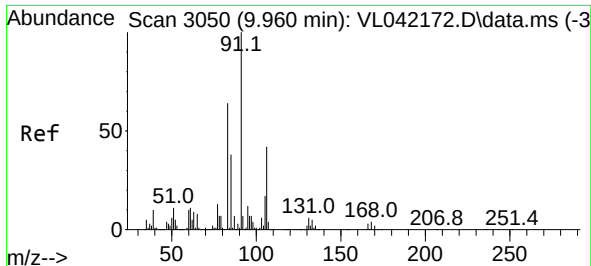
Tgt Ion: 91 Resp: 30797
Ion Ratio Lower Upper
91 100
106 25.7 24.2 36.2



#59
m/p-Xylene
Concen: 1.835 ppbv
RT: 9.542 min Scan# 2921
Delta R.T. -0.007 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Tgt Ion: 91 Resp: 95378
Ion Ratio Lower Upper
91 100
106 46.1 36.4 54.6

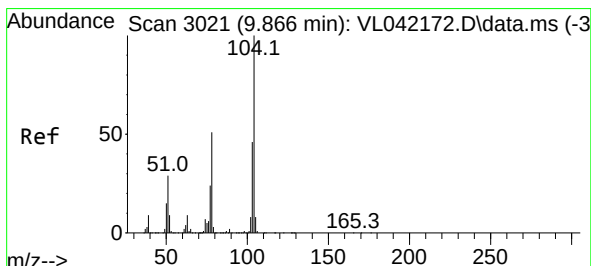
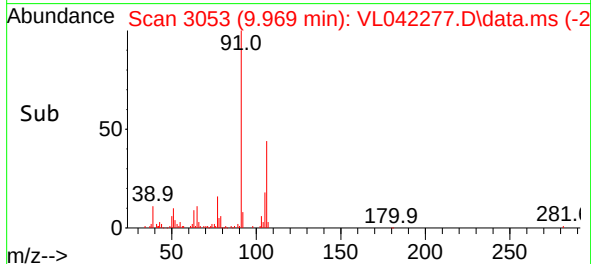
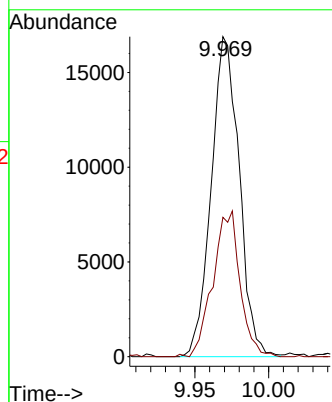
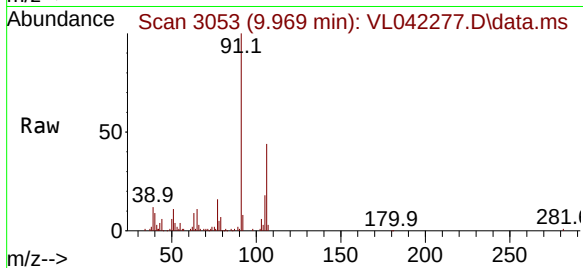




#60
o-Xylene
Concen: 0.428 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.009 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

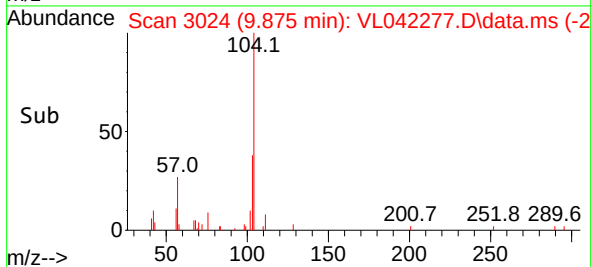
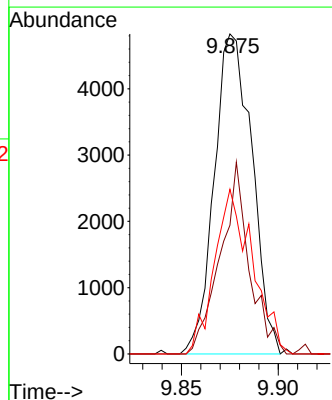
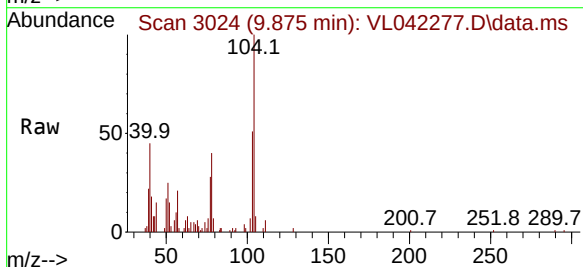
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025

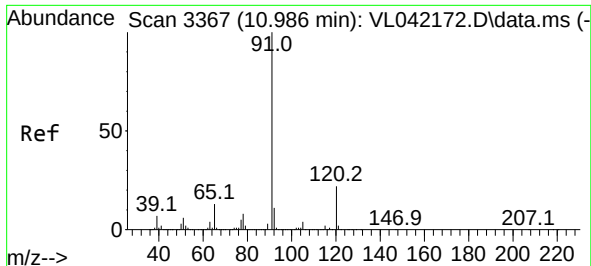
Tgt Ion: 91 Resp: 22277
Ion Ratio Lower Upper
91 100
106 44.2 20.8 62.5



#61
Styrene
Concen: 0.254 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. 0.009 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Tgt Ion: 104 Resp: 6538
Ion Ratio Lower Upper
104 100
78 46.9 41.8 62.6
103 51.9 37.0 55.4

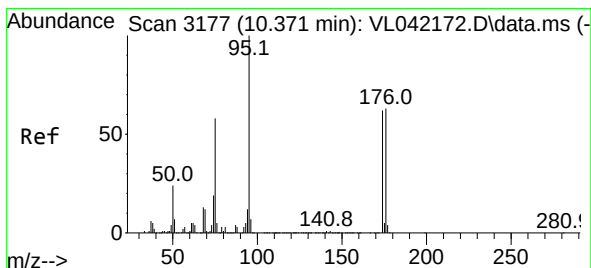
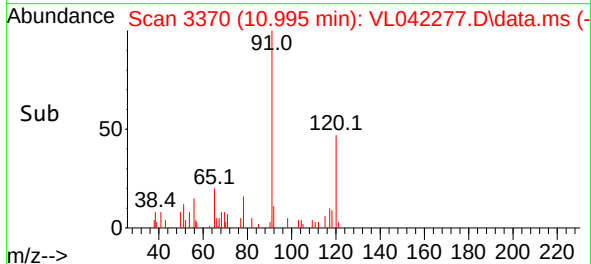
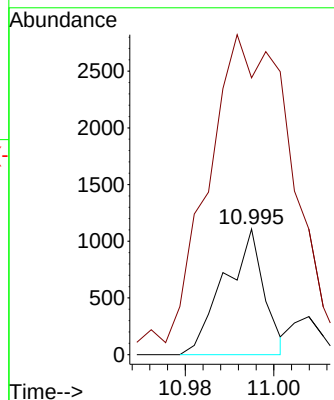
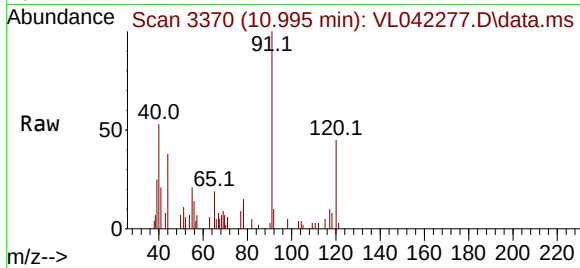




#64
n-propylbenzene
Concen: 0.034 ppbv
RT: 10.995 min Scan# 3180
Delta R.T. 0.009 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

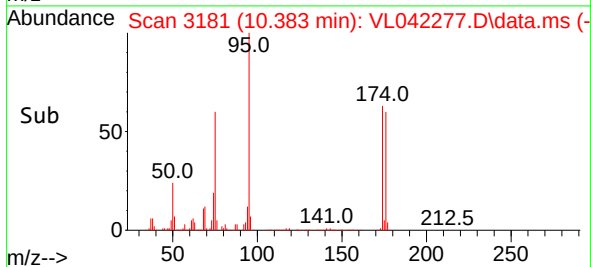
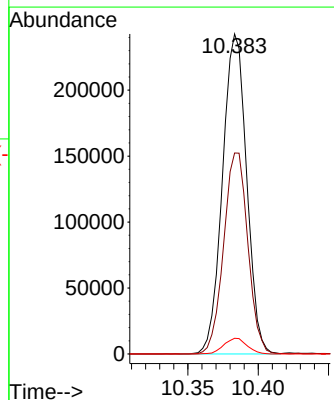
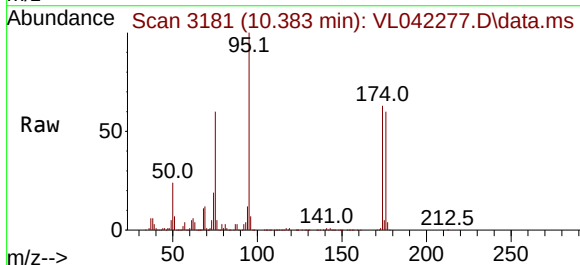
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025

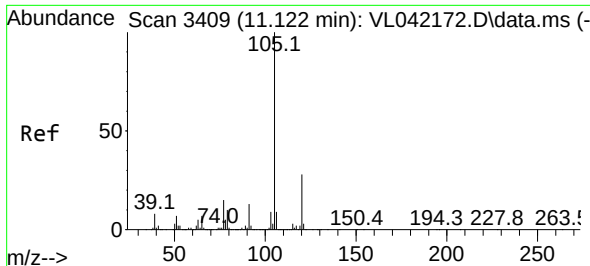
Tgt Ion:120 Resp: 690
Ion Ratio Lower Upper
120 100
91 560.3 376.9 565.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.629 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. 0.013 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Tgt Ion: 95 Resp: 289703
Ion Ratio Lower Upper
95 100
174 63.0 50.6 76.0
175 4.7 3.8 5.6

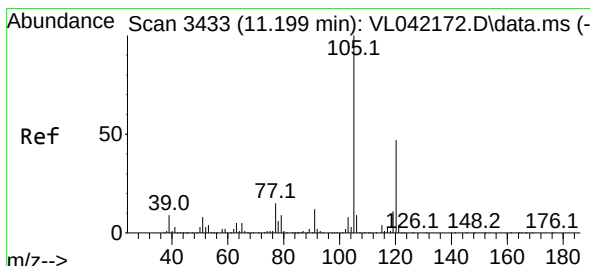
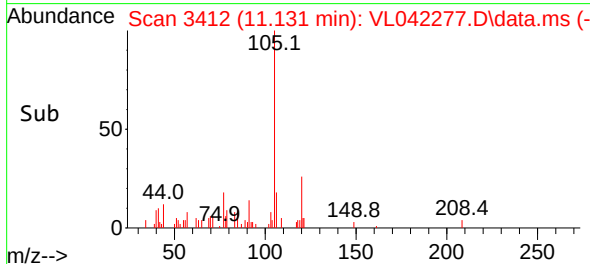
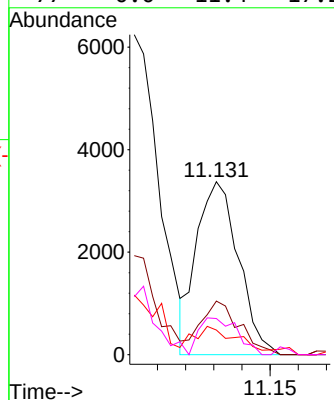
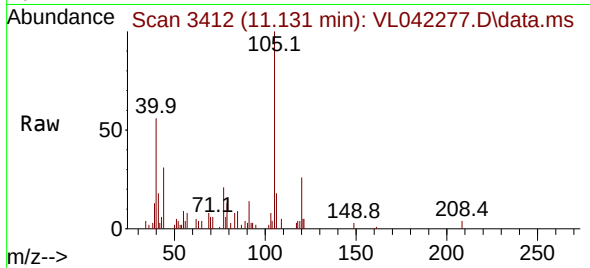




#72
4-Ethyltoluene
Concen: 0.054 ppbv
RT: 11.131 min Scan# 3409
Delta R.T. 0.009 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

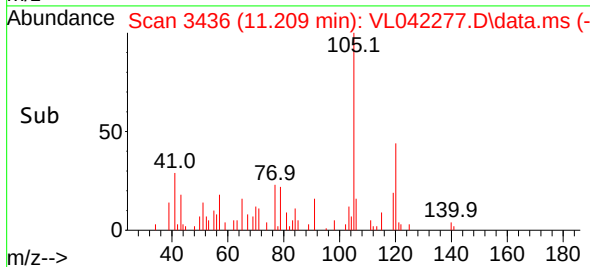
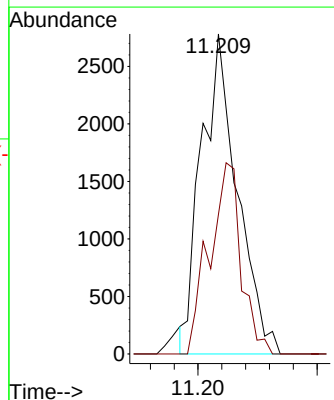
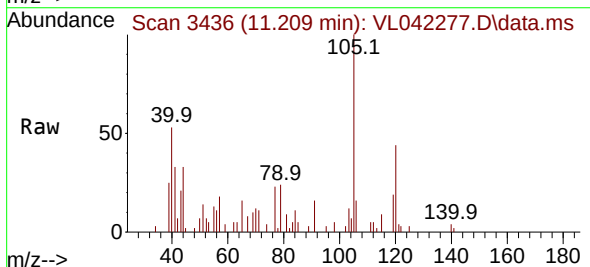
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B14-2-04012025

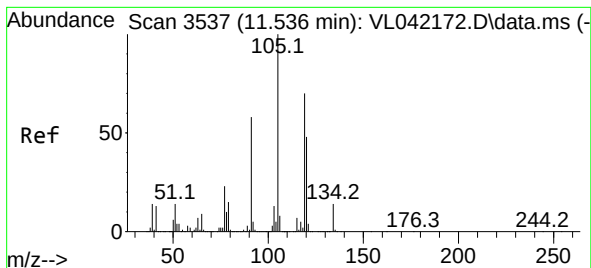
Tgt Ion:105	Resp:	3486
Ion Ratio	Lower	Upper
105	100	
120	0.0	23.4 35.0#
91	0.0	10.3 15.5#
77	0.0	11.4 17.2#



#73
1,3,5-Trimethylbenzene
Concen: 0.052 ppbv
RT: 11.209 min Scan# 3436
Delta R.T. 0.009 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Tgt Ion:105	Resp:	2919
Ion Ratio	Lower	Upper
105	100	
120	43.6	37.4 56.0





#74

1,2,4-Trimethylbenzene

Concen: 0.167 ppbv

RT: 11.545 min Scan# 31

Delta R.T. 0.009 min

Lab File: VL042277.D

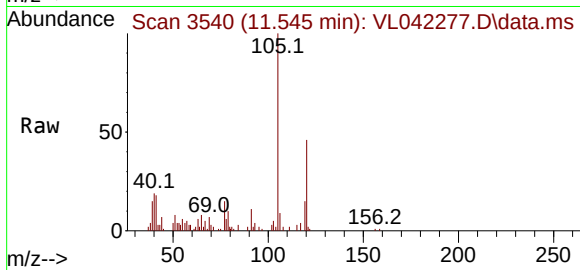
Acq: 08 Apr 2025 23:44

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-2-04012025



Tgt Ion:105 Resp: 10923

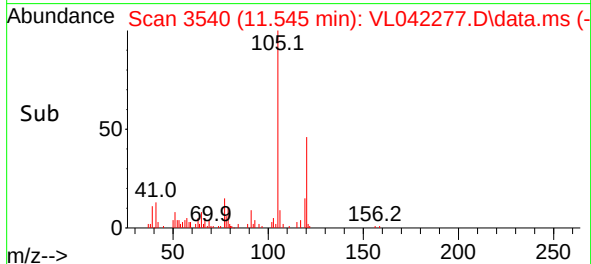
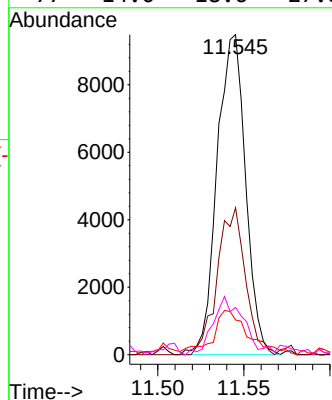
Ion Ratio Lower Upper

105 100

120 45.9 38.6 58.0

91 9.9 46.2 69.2#

77 14.0 18.6 27.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042278.D
 Acq On : 09 Apr 2025 00:15
 Operator : SY/MD
 Sample : Q1728-02 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-5-04012025

Quant Time: Apr 09 02:03:01 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)

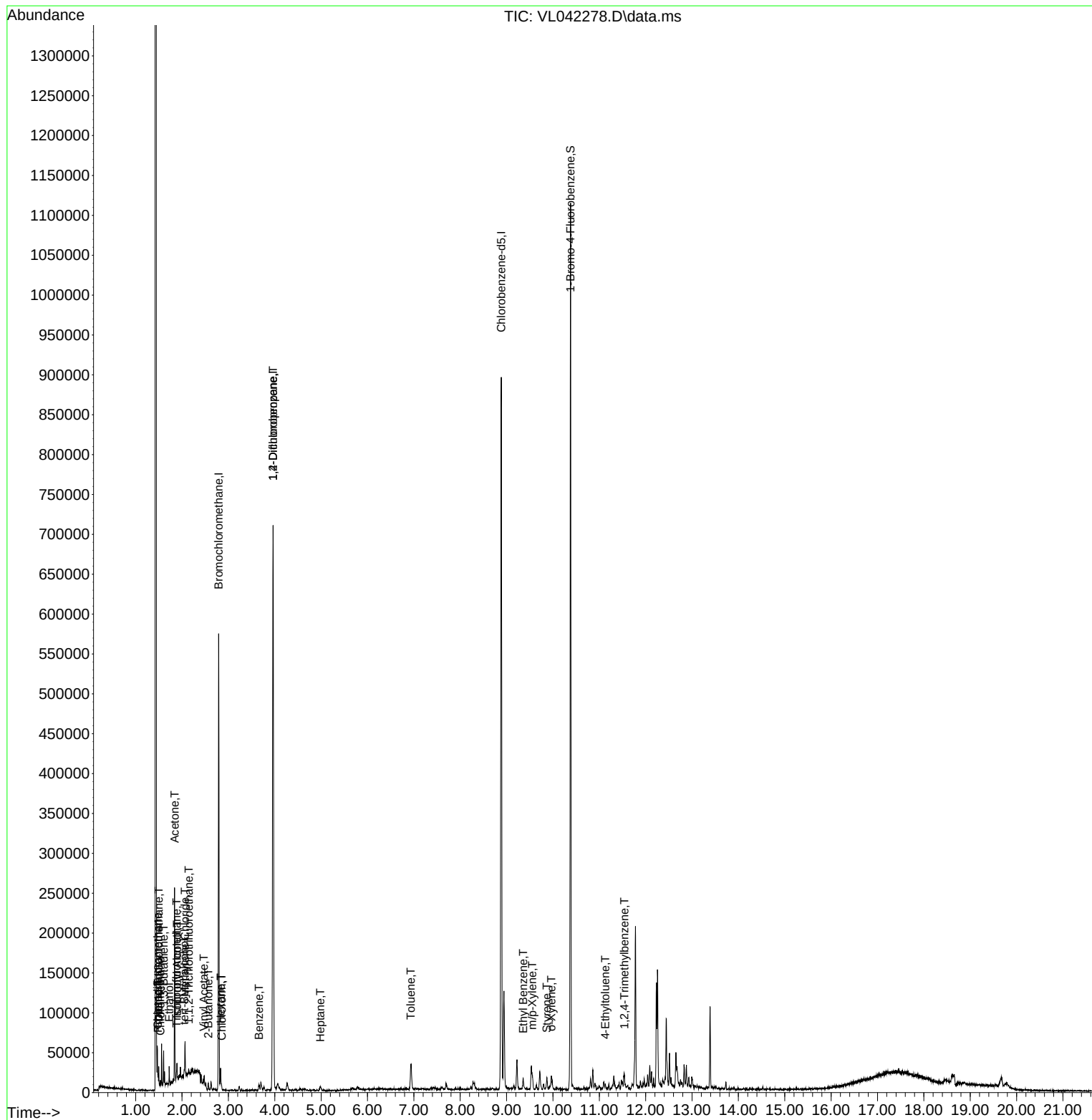
Internal Standards						
1) Bromochloromethane	2.790	49	158831	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	406344	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	351845	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	274750	9.509	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	5250	0.224	ppbv	95
3) Chlorodifluoromethane	1.476	51	4854	0.203	ppbv #	85
4) Chloromethane	1.531	50	1329	0.139	ppbv #	87
9) Propene	1.483	41	966	0.088	ppbv #	65
10) Heptane	4.981	43	999	0.034	ppbv #	28
11) Trichlorofluoromethane	1.881	101	2481	0.109	ppbv	87
12) 1,1,2-Trichlorotrifluo...	2.143	101	729	0.039	ppbv	83
13) Ethanol	1.722	45	6890	6.637	ppbv #	27
15) Acetone	1.839	43	104371	4.699	ppbv	93
16) 1,3-Butadiene	1.602	39	4874	0.449	ppbv #	21
17) tert-Butyl alcohol	2.049	59	2951	0.107	ppbv	99
19) Isopropyl Alcohol	1.890	45	7096	0.566	ppbv #	1
20) Methylene Chloride	2.065	84	6266	0.757	ppbv #	92
23) Vinyl Acetate	2.473	43	3980	0.414	ppbv #	67
26) Hexane	2.832	57	5174	0.232	ppbv #	35
29) Chloroform	2.855	83	1998	0.061	ppbv	94
34) 2-Butanone	2.567	43	5212	0.177	ppbv	99
36) Benzene	3.661	78	4257	0.106	ppbv	95
39) 1,2-Dichloropropane	3.962	63	104031	7.091	ppbv #	21
53) Toluene	6.933	91	23321	0.488	ppbv	97
58) Ethyl Benzene	9.357	91	6275	0.100	ppbv	94
59) m/p-Xylene	9.551	91	5005	0.100	ppbv #	31
60) o-Xylene	9.966	91	6832	0.137	ppbv	98
61) Styrene	9.869	104	3678	0.149	ppbv	99
72) 4-Ethyltoluene	11.128	105	2034	0.033	ppbv #	65
74) 1,2,4-Trimethylbenzene	11.539	105	5159	0.082	ppbv #	65

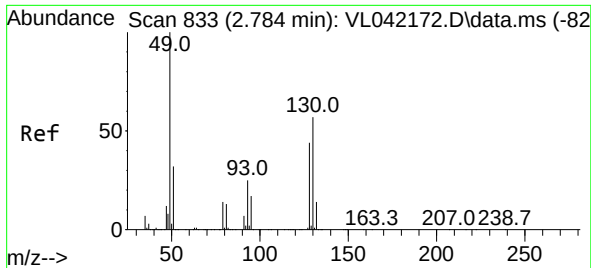
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042278.D
Acq On : 09 Apr 2025 00:15
Operator : SY/MD
Sample : Q1728-02 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-5-04012025

Quant Time: Apr 09 02:03:01 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

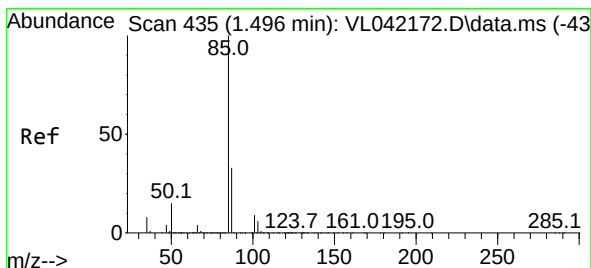
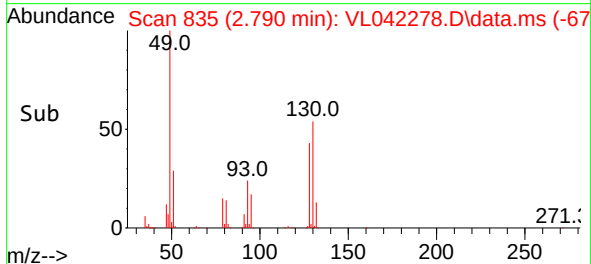
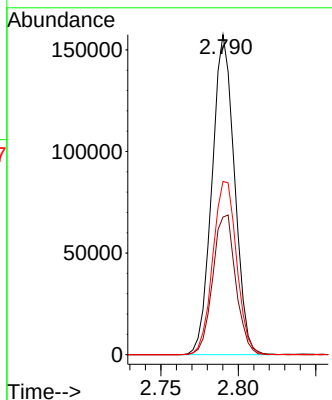
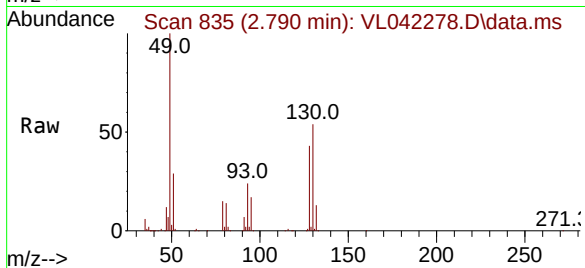




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.790 min Scan# 81
 Delta R.T. 0.006 min
 Lab File: VL042278.D
 Acq: 09 Apr 2025 00:15

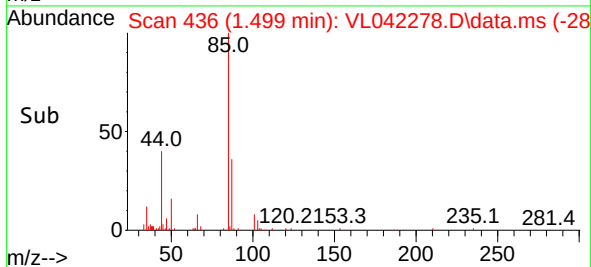
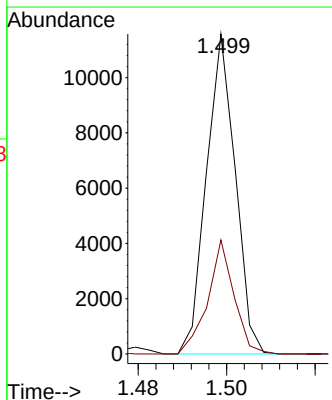
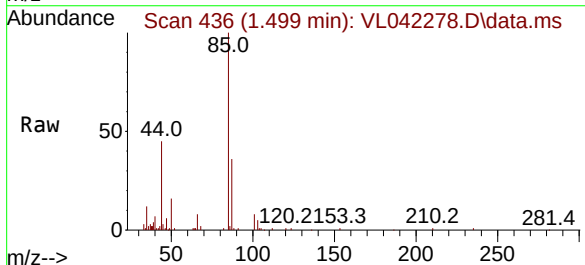
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-5-04012025

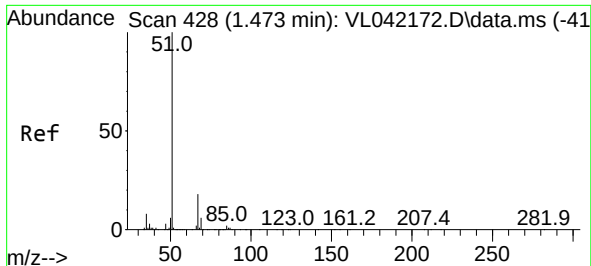
Tgt Ion: 49 Resp: 158831
 Ion Ratio Lower Upper
 49 100
 128 44.7 22.9 68.5
 130 57.5 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 0.224 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.003 min
 Lab File: VL042278.D
 Acq: 09 Apr 2025 00:15

Tgt Ion: 85 Resp: 5250
 Ion Ratio Lower Upper
 85 100
 87 35.6 26.1 39.1

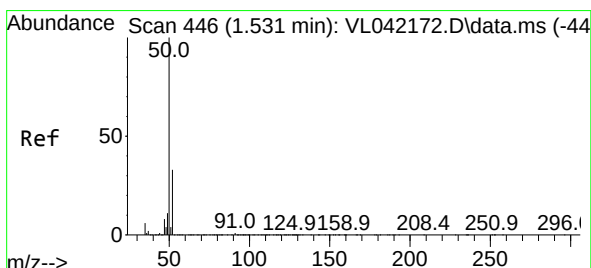
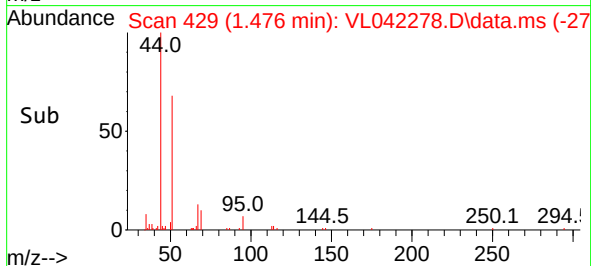
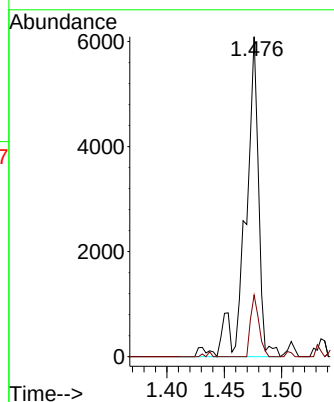
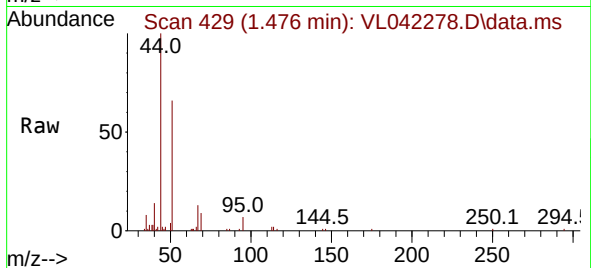




#3
Chlorodifluoromethane
Concen: 0.203 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

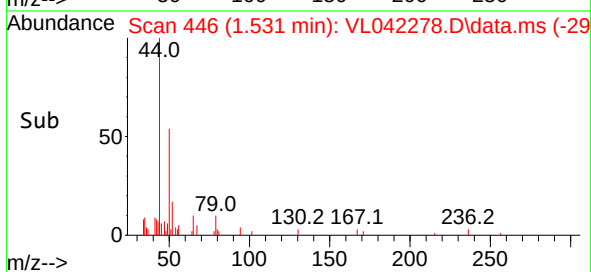
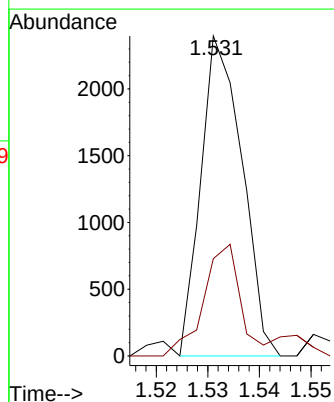
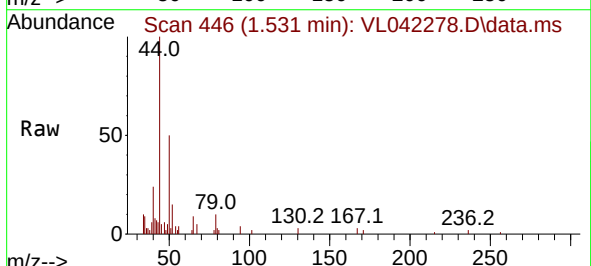
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B1-5-04012025

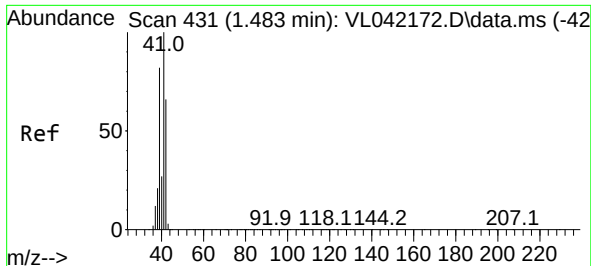
Tgt Ion: 51 Resp: 4854
Ion Ratio Lower Upper
51 100
67 12.2 15.0 22.6#



#4
Chloromethane
Concen: 0.139 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

Tgt Ion: 50 Resp: 1329
Ion Ratio Lower Upper
50 100
52 25.3 26.1 39.1#

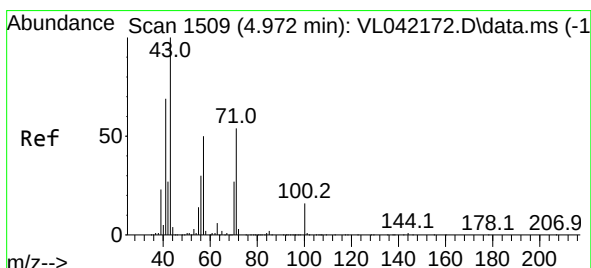
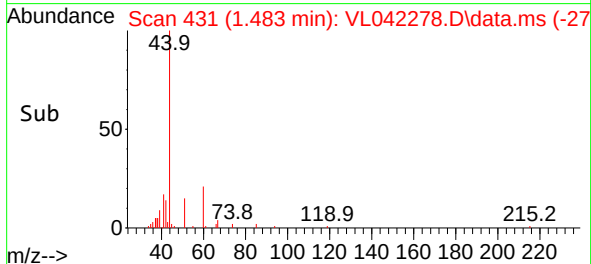
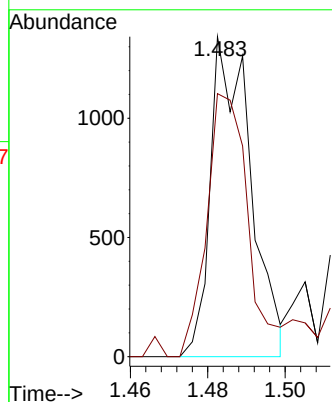
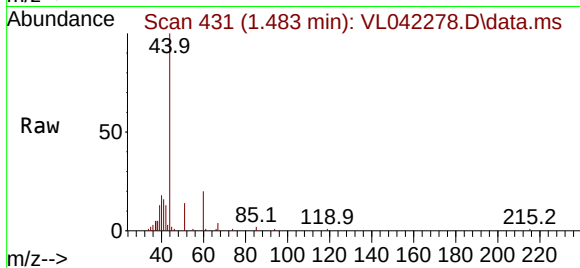




#9
 Propene
 Concen: 0.088 ppbv
 RT: 1.483 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042278.D
 Acq: 09 Apr 2025 00:15

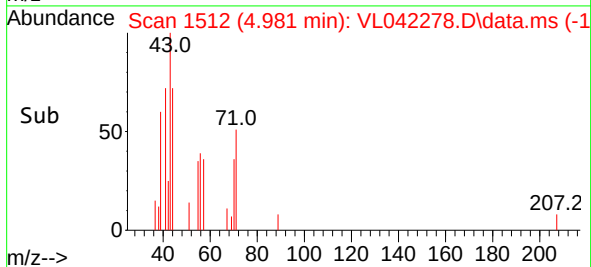
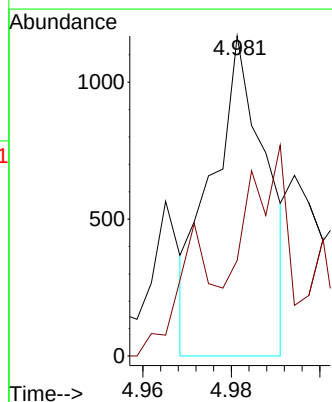
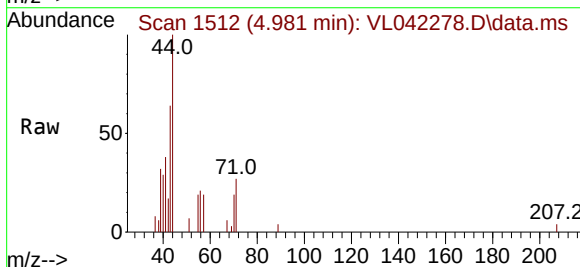
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-5-04012025

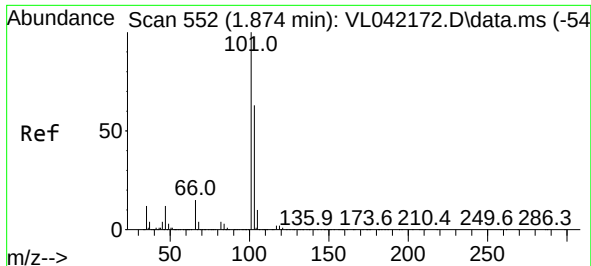
Tgt Ion: 41 Resp: 966
 Ion Ratio Lower Upper
 41 100
 42 97.8 55.4 83.2#



#10
 Heptane
 Concen: 0.034 ppbv
 RT: 4.981 min Scan# 1512
 Delta R.T. 0.009 min
 Lab File: VL042278.D
 Acq: 09 Apr 2025 00:15

Tgt Ion: 43 Resp: 999
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.4 59.2#

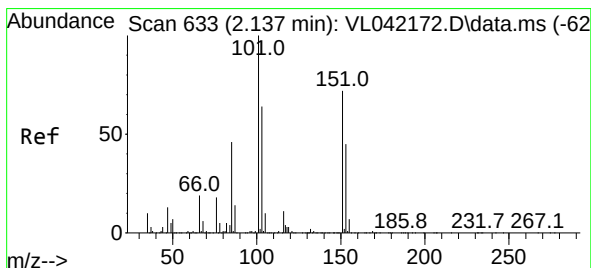
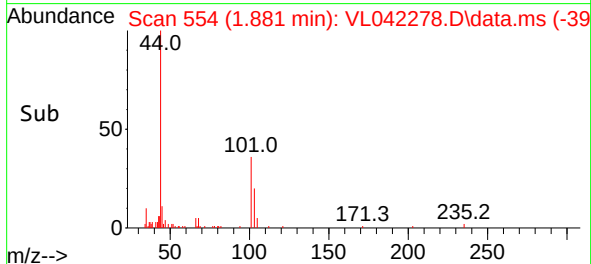
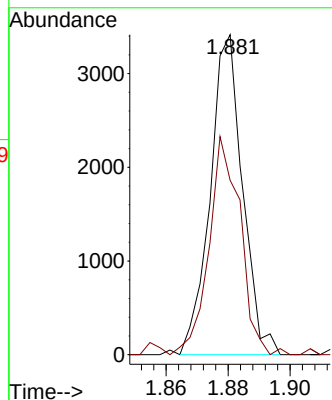
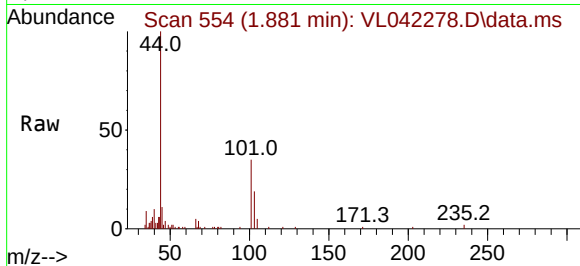




#11
 Trichlorofluoromethane
 Concen: 0.109 ppbv
 RT: 1.881 min Scan# 51
 Delta R.T. 0.006 min
 Lab File: VL042278.D
 Acq: 09 Apr 2025 00:15

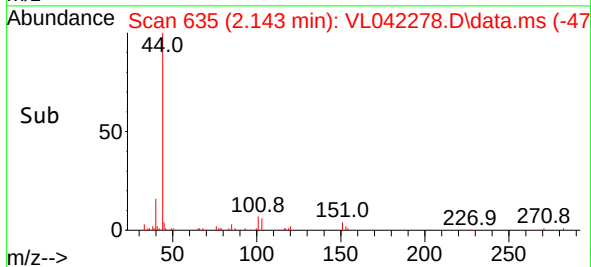
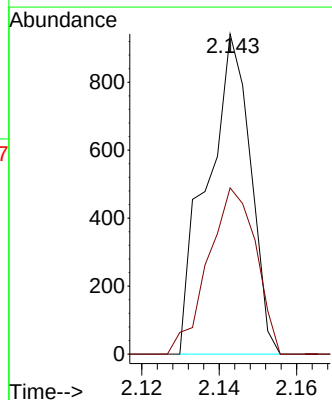
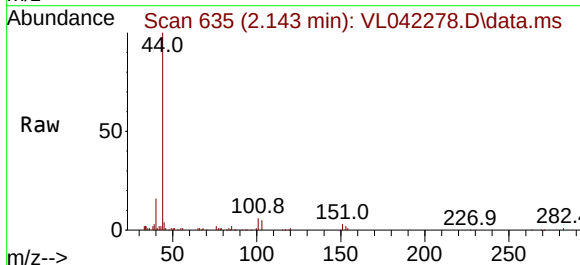
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-5-04012025

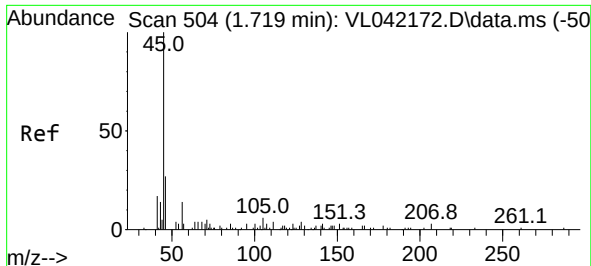
Tgt Ion:101 Resp: 2481
 Ion Ratio Lower Upper
 101 100
 103 52.6 50.2 75.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.039 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.006 min
 Lab File: VL042278.D
 Acq: 09 Apr 2025 00:15

Tgt Ion:101 Resp: 729
 Ion Ratio Lower Upper
 101 100
 151 57.3 57.1 85.7

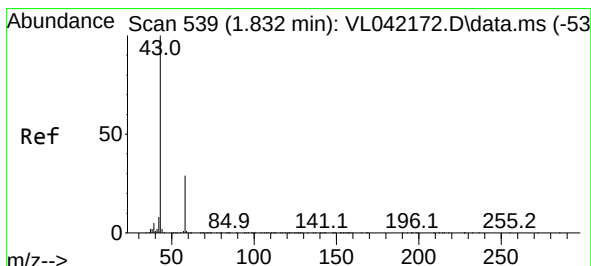
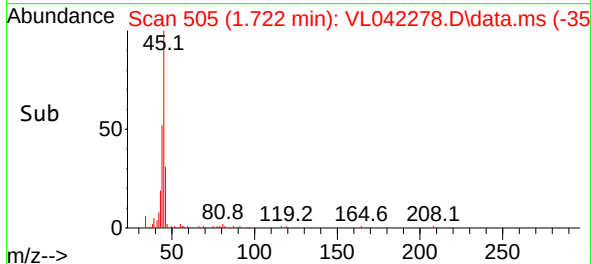
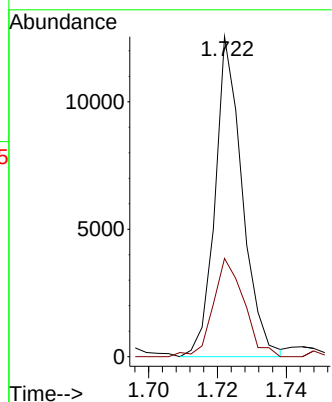
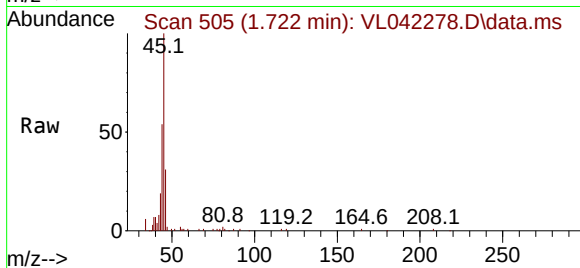




#13
 Ethanol
 Concen: 6.637 ppbv
 RT: 1.722 min Scan# 504
 Delta R.T. 0.003 min
 Lab File: VL042278.D
 Acq: 09 Apr 2025 00:15

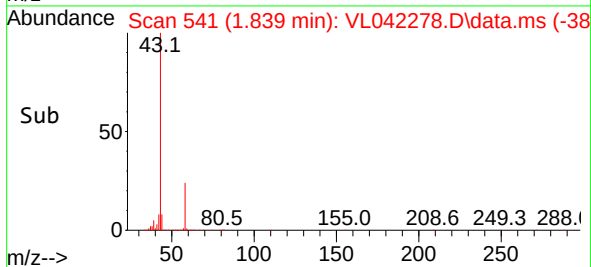
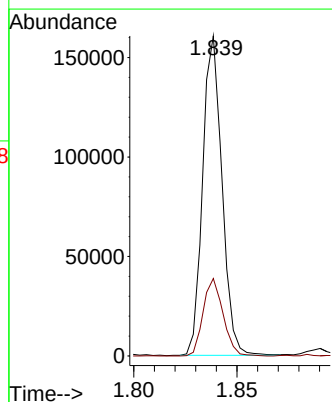
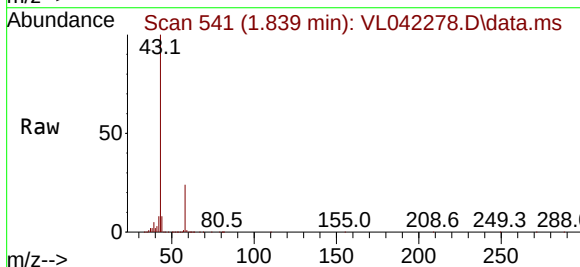
Instrument :
 MSVOA_1
 ClientSampleId :
 SSSG-B1-5-04012025

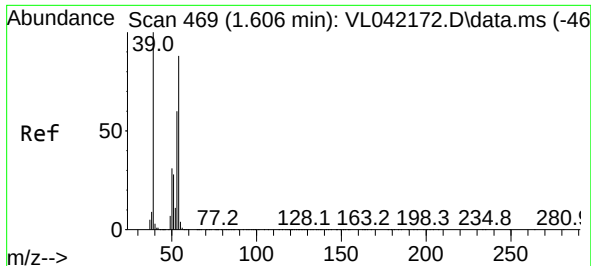
Tgt Ion: 45 Resp: 6890
 Ion Ratio Lower Upper
 45 100
 46 0.0 20.2 80.8#



#15
 Acetone
 Concen: 4.699 ppbv
 RT: 1.839 min Scan# 541
 Delta R.T. 0.006 min
 Lab File: VL042278.D
 Acq: 09 Apr 2025 00:15

Tgt Ion: 43 Resp: 104371
 Ion Ratio Lower Upper
 43 100
 58 25.4 23.2 34.8





#16

1,3-Butadiene

Concen: 0.449 ppbv

RT: 1.602 min Scan# 4

Delta R.T. -0.004 min

Lab File: VL042278.D

Acq: 09 Apr 2025 00:15

Instrument :

MSVOA_1

ClientSampleId :

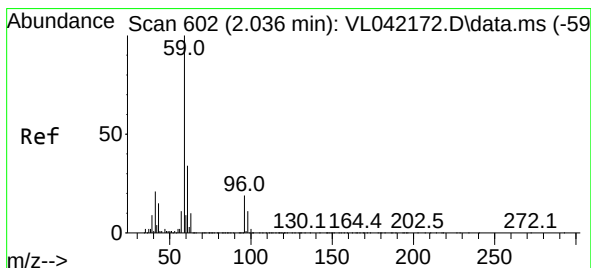
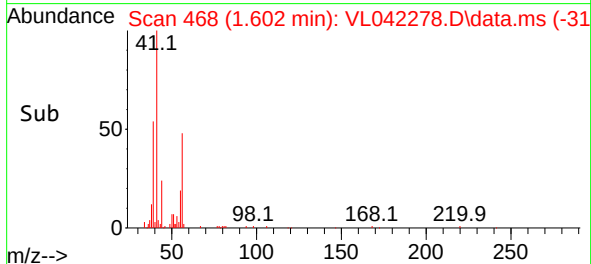
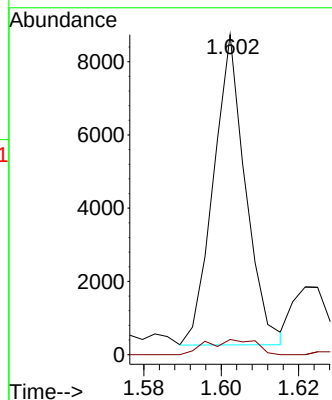
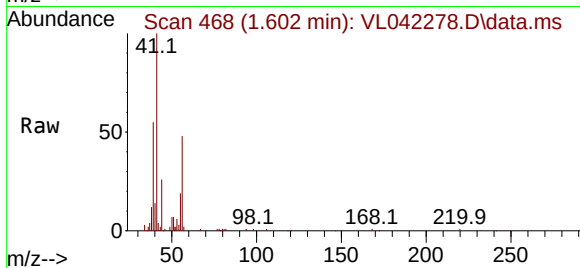
SSSG-B1-5-04012025

Tgt Ion: 39 Resp: 4874

Ion Ratio Lower Upper

39 100

54 8.2 60.7 91.1#



#17

tert-Butyl alcohol

Concen: 0.107 ppbv

RT: 2.049 min Scan# 606

Delta R.T. 0.013 min

Lab File: VL042278.D

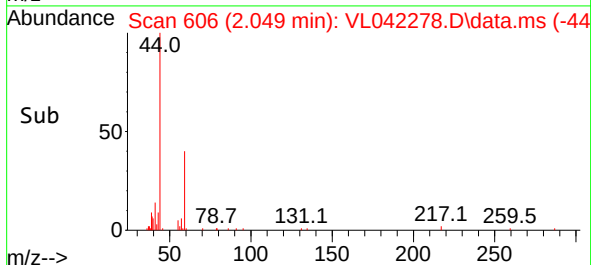
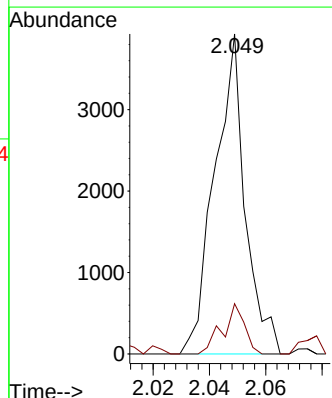
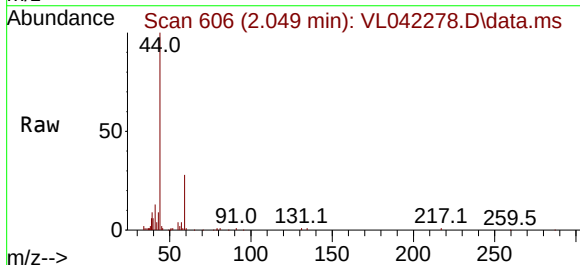
Acq: 09 Apr 2025 00:15

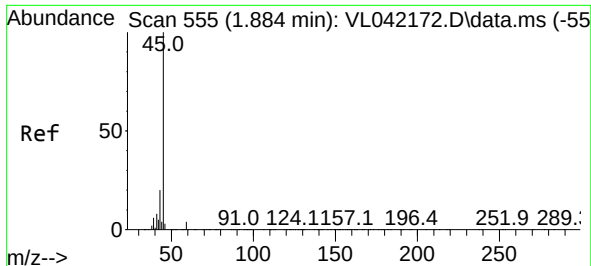
Tgt Ion: 59 Resp: 2951

Ion Ratio Lower Upper

59 100

57 11.3 8.9 13.3

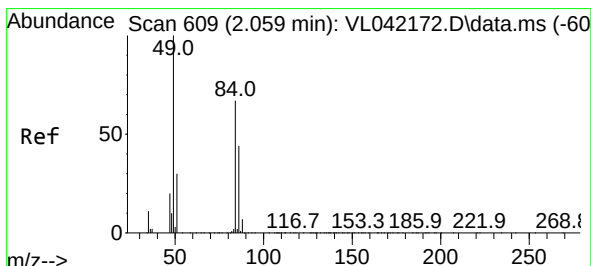
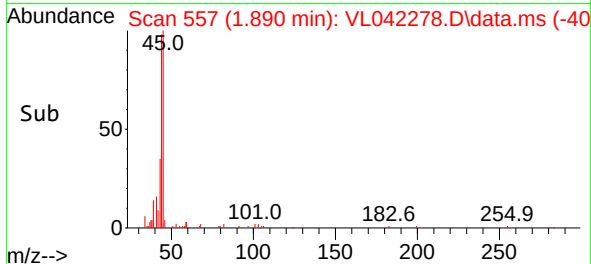
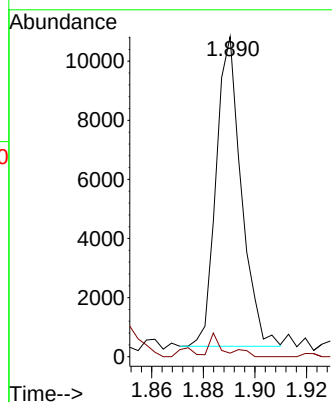
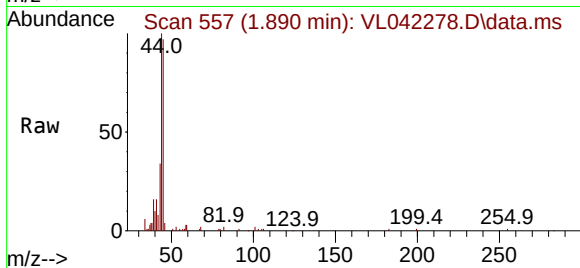




#19
Isopropyl Alcohol
Concen: 0.566 ppbv
RT: 1.890 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

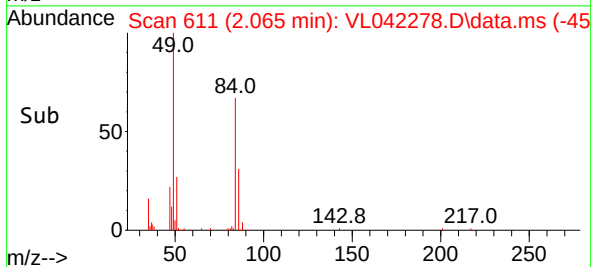
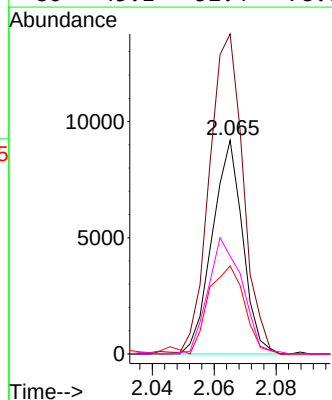
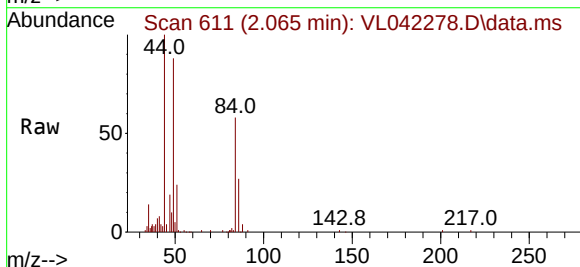
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-5-04012025

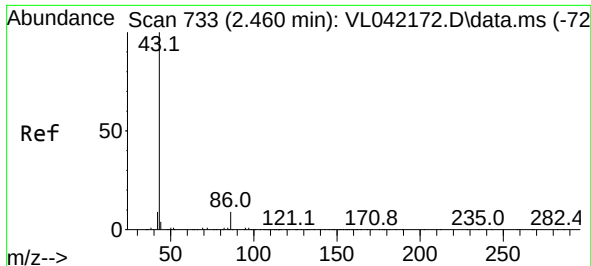
Tgt Ion: 45 Resp: 7096
Ion Ratio Lower Upper
45 100
58 367.8 36.9 55.3#



#20
Methylene Chloride
Concen: 0.757 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

Tgt Ion: 84 Resp: 6266
Ion Ratio Lower Upper
84 100
49 149.1 120.2 180.4
51 41.2 37.4 56.0
86 45.1 52.4 78.6#

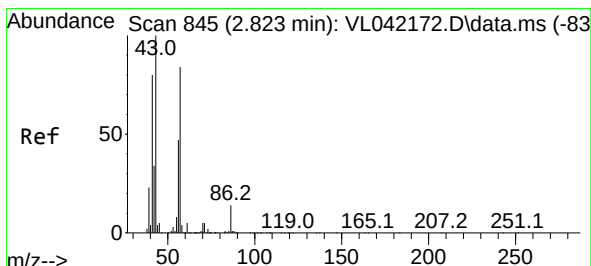
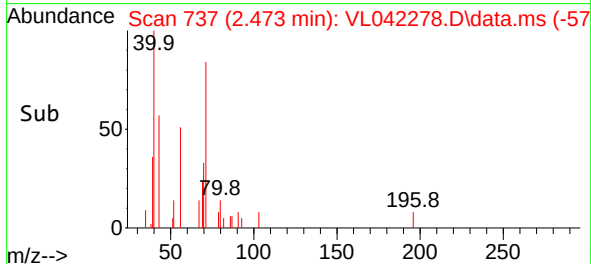
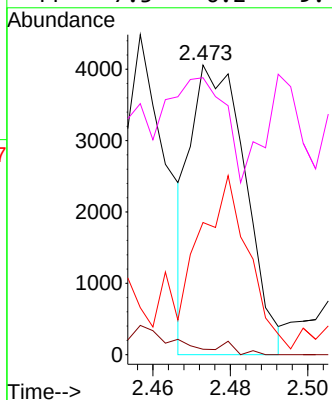
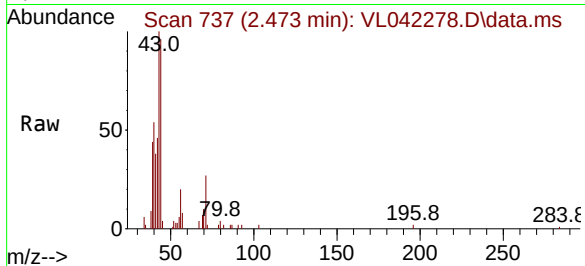




#23
 Vinyl Acetate
 Concen: 0.414 ppbv
 RT: 2.473 min Scan# 71
 Delta R.T. 0.013 min
 Lab File: VL042278.D
 Acq: 09 Apr 2025 00:15

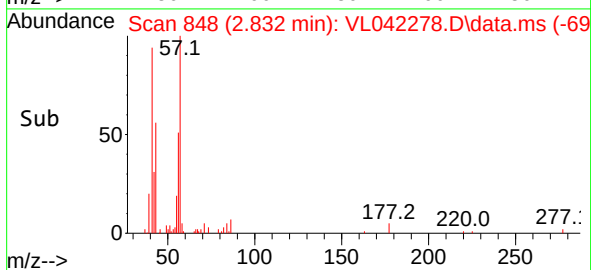
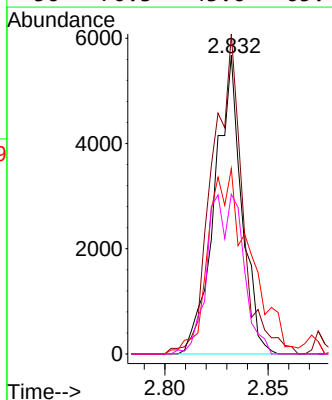
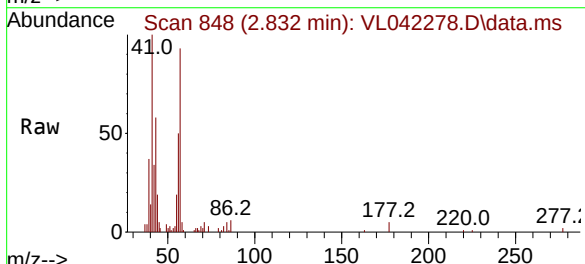
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-5-04012025

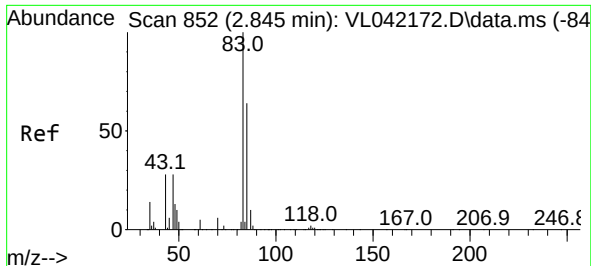
Tgt Ion: 43	Resp:	3980	
Ion	Ratio	Lower	Upper
43	100		
86	3.8	5.5	8.3#
42	37.3	8.6	13.0#
44	7.3	6.2	9.4



#26
 Hexane
 Concen: 0.232 ppbv
 RT: 2.832 min Scan# 848
 Delta R.T. 0.009 min
 Lab File: VL042278.D
 Acq: 09 Apr 2025 00:15

Tgt Ion: 57	Resp: 5174
Ion Ratio	Lower Upper
57 100	
41 121.1	76.6 114.8#
43 101.4	207.8 311.8#
56 70.3	43.6 65.4#





#29

Chloroform

Concen: 0.061 ppbv

RT: 2.855 min Scan# 81

Delta R.T. 0.009 min

Lab File: VL042278.D

Acq: 09 Apr 2025 00:15

Instrument :

MSVOA_L

ClientSampleId :

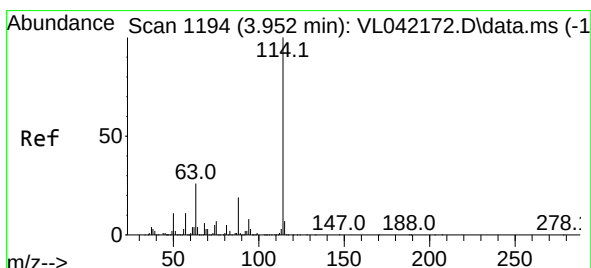
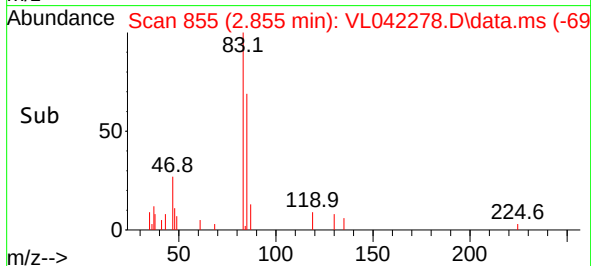
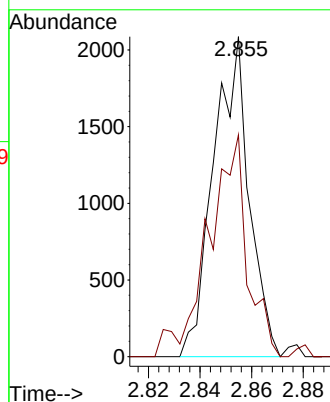
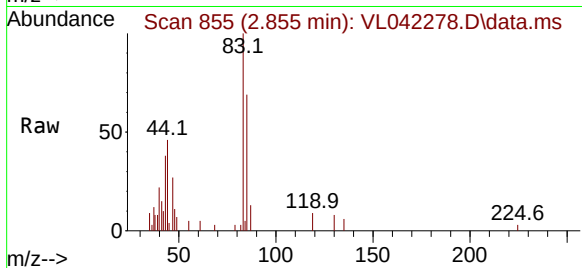
SSSG-B1-5-04012025

Tgt Ion: 83 Resp: 1998

Ion Ratio Lower Upper

83 100

85 69.3 51.4 77.2



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.009 min

Lab File: VL042278.D

Acq: 09 Apr 2025 00:15

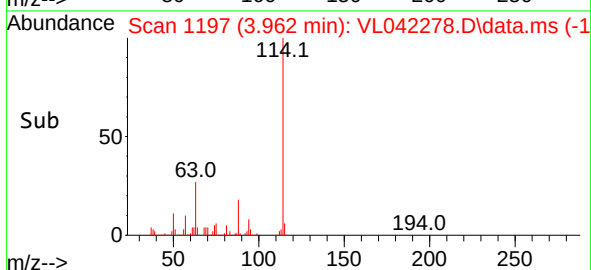
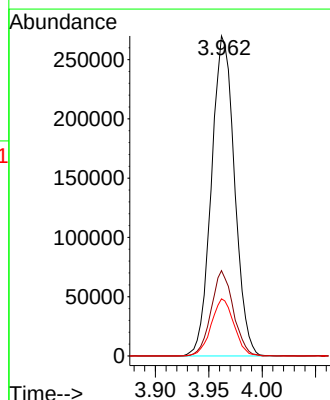
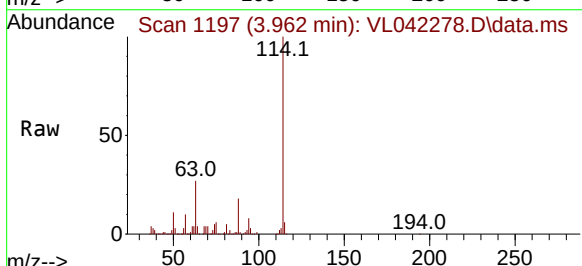
Tgt Ion: 114 Resp: 406344

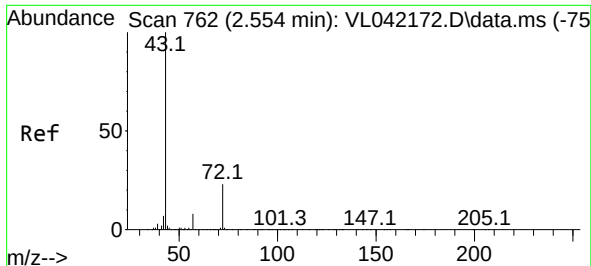
Ion Ratio Lower Upper

114 100

63 25.6 20.7 31.1

88 17.6 15.0 22.4

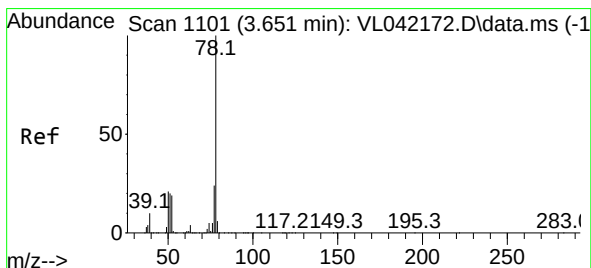
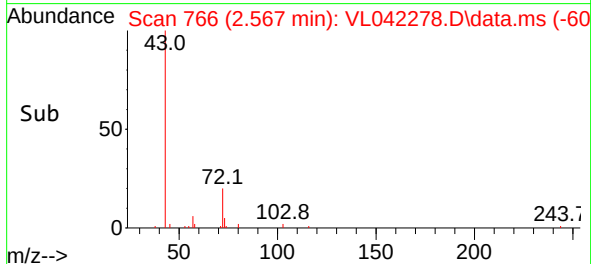
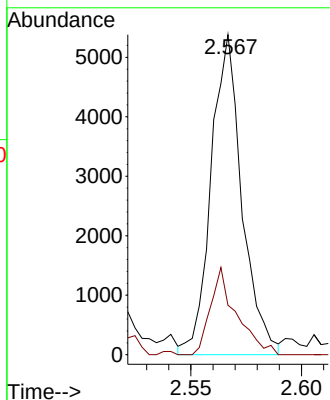
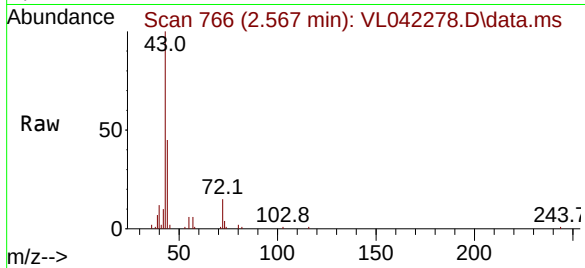




#34
2-Butanone
Concen: 0.177 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.013 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

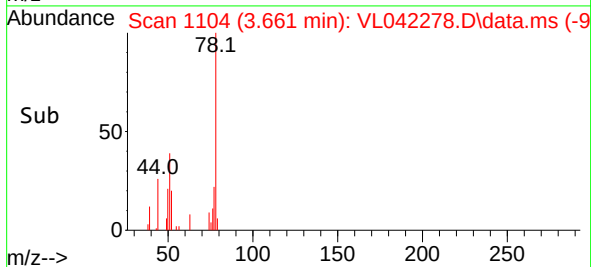
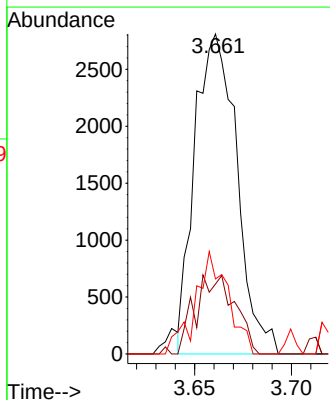
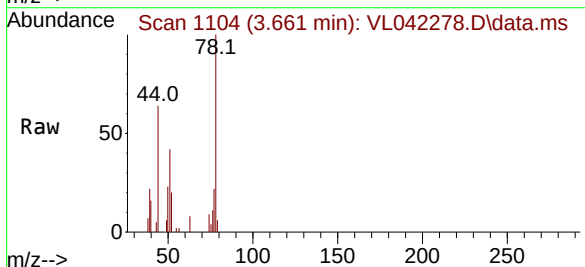
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-5-04012025

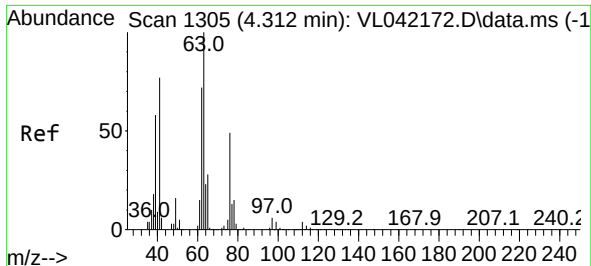
Tgt Ion: 43 Resp: 5212
Ion Ratio Lower Upper
43 100
72 23.0 18.2 27.2



#36
Benzene
Concen: 0.106 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.009 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

Tgt Ion: 78 Resp: 4257
Ion Ratio Lower Upper
78 100
77 21.8 19.1 28.7
50 23.5 16.6 24.8





#39

1,2-Dichloropropane

Concen: 7.091 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.350 min

Lab File: VL042278.D

Acq: 09 Apr 2025 00:15

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B1-5-04012025

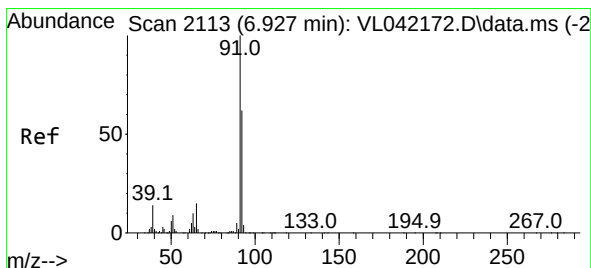
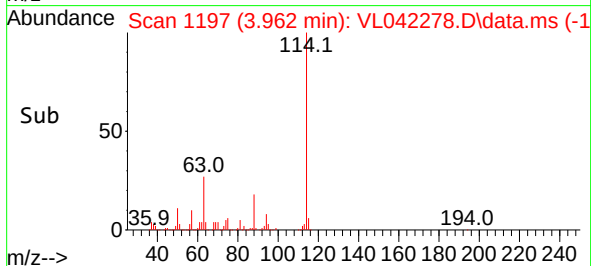
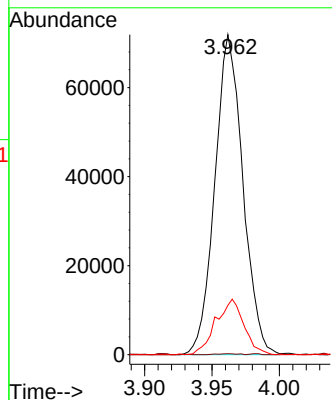
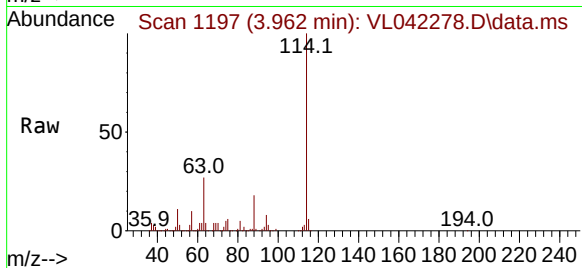
Tgt Ion: 63 Resp: 104031

Ion Ratio Lower Upper

63 100

41 0.4 61.7 92.5#

62 15.4 57.6 86.4#



#53

Toluene

Concen: 0.488 ppbv

RT: 6.933 min Scan# 2115

Delta R.T. 0.006 min

Lab File: VL042278.D

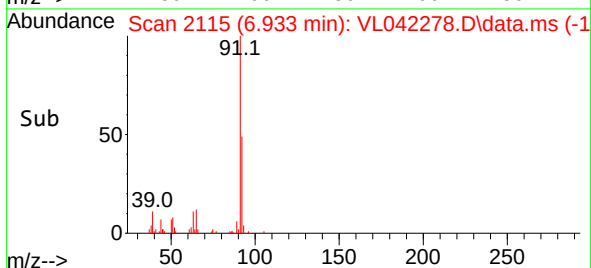
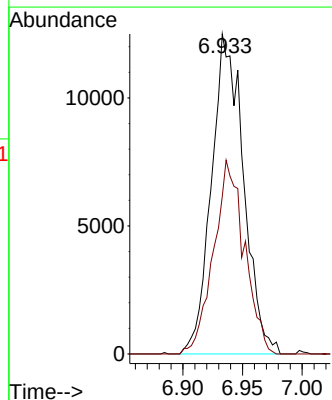
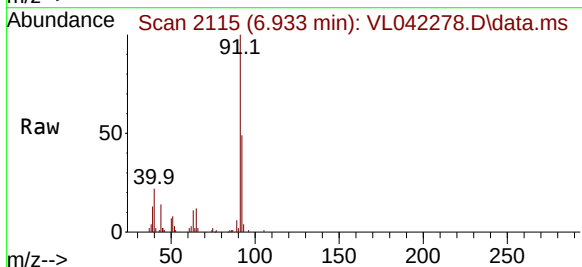
Acq: 09 Apr 2025 00:15

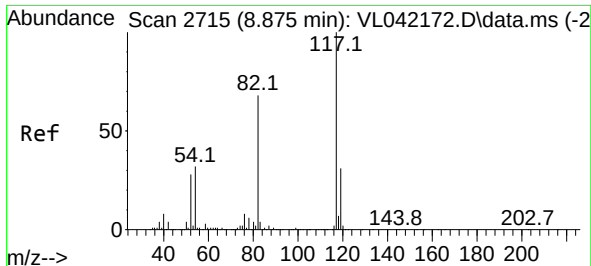
Tgt Ion: 91 Resp: 23321

Ion Ratio Lower Upper

91 100

92 58.3 48.4 72.6

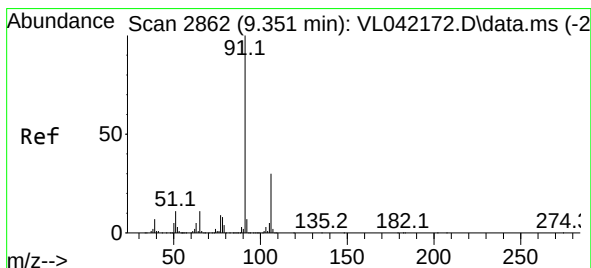
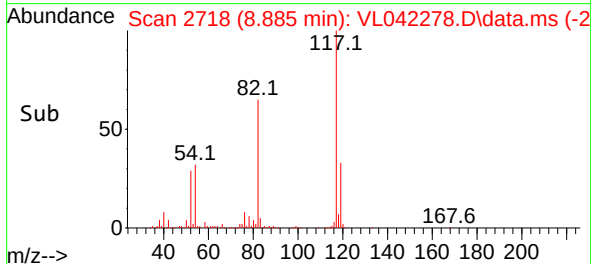
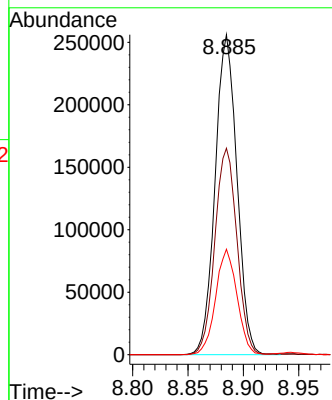
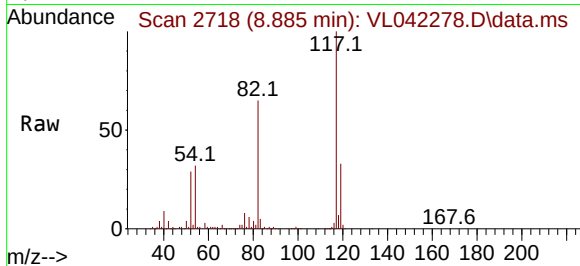




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. 0.009 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

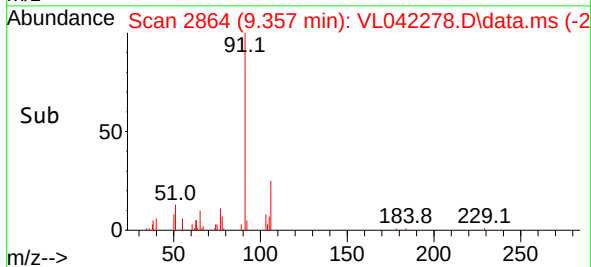
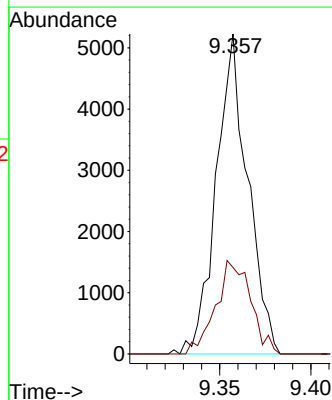
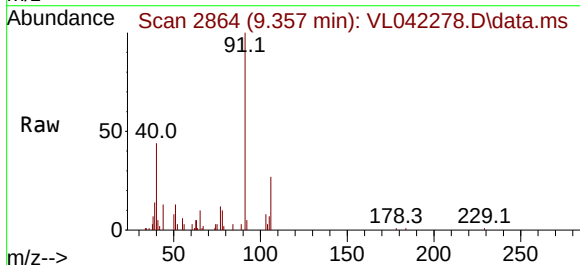
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B1-5-04012025

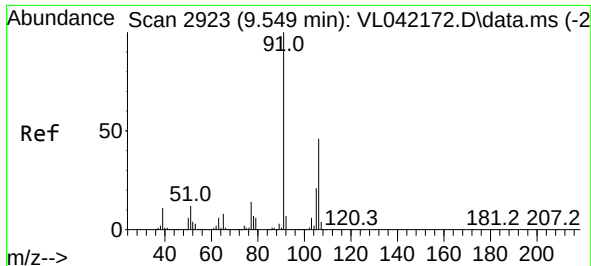
Tgt Ion: 117 Resp: 351845
Ion Ratio Lower Upper
117 100
82 65.5 55.8 83.6
119 32.3 25.5 38.3



#58
Ethyl Benzene
Concen: 0.100 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.006 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

Tgt Ion: 91 Resp: 6275
Ion Ratio Lower Upper
91 100
106 27.1 24.2 36.2





#59

m/p-Xylene

Concen: 0.100 ppbv

RT: 9.551 min Scan# 2923

Delta R.T. 0.003 min

Lab File: VL042278.D

Acq: 09 Apr 2025 00:15

Instrument :

MSVOA_L

ClientSampleId :

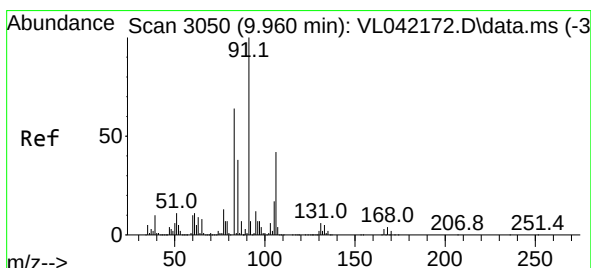
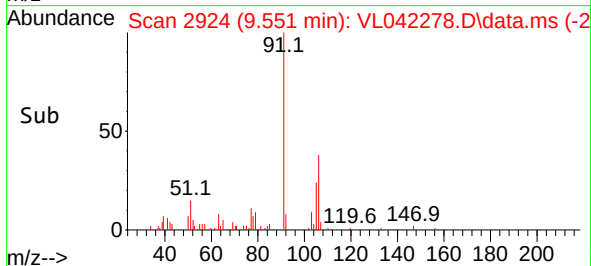
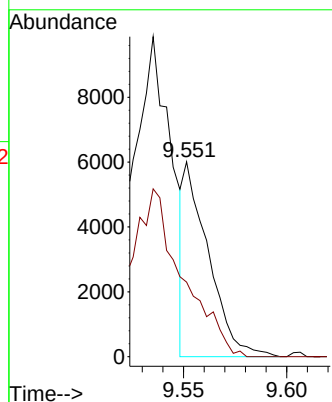
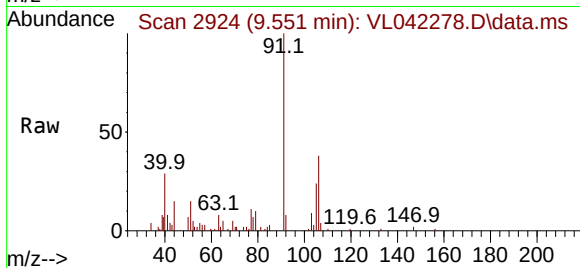
SSSG-B1-5-04012025

Tgt Ion: 91 Resp: 5005

Ion Ratio Lower Upper

91 100

106 0.0 36.4 54.6#



#60

o-Xylene

Concen: 0.137 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.006 min

Lab File: VL042278.D

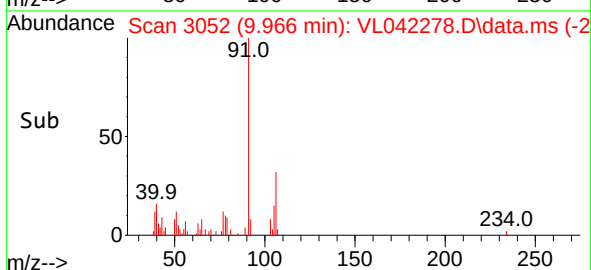
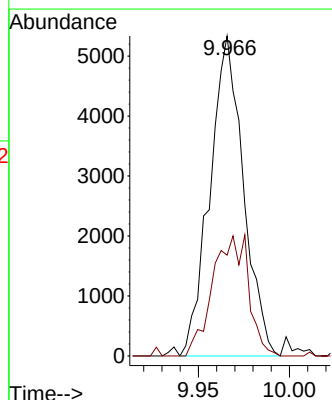
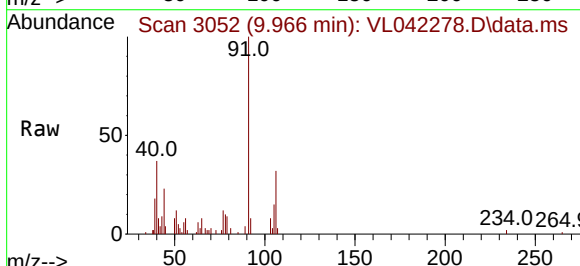
Acq: 09 Apr 2025 00:15

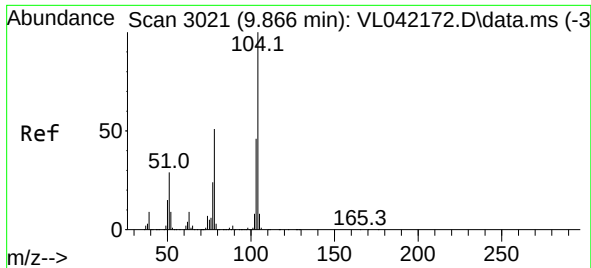
Tgt Ion: 91 Resp: 6832

Ion Ratio Lower Upper

91 100

106 40.7 20.8 62.5

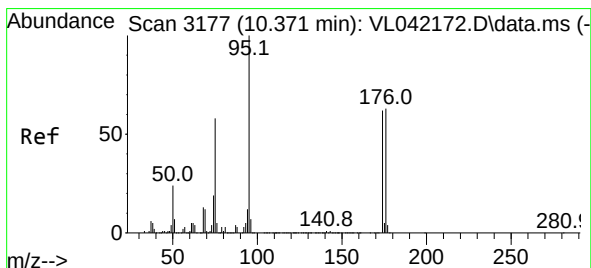
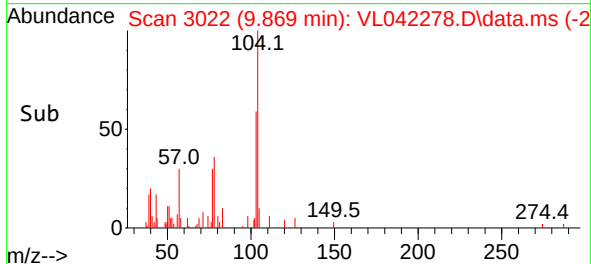
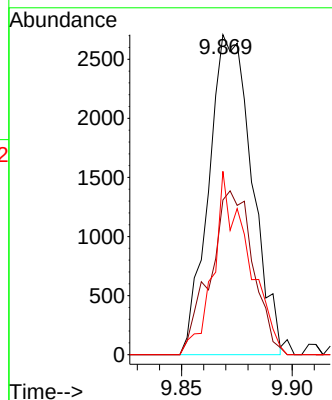
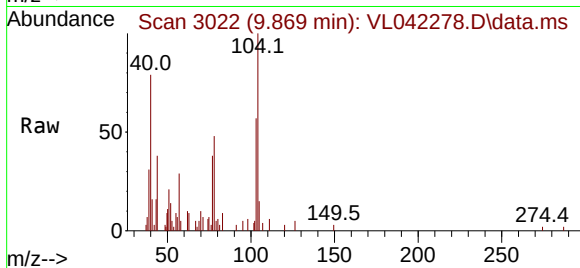




#61
Styrene
Concen: 0.149 ppbv
RT: 9.869 min Scan# 3021
Delta R.T. 0.003 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

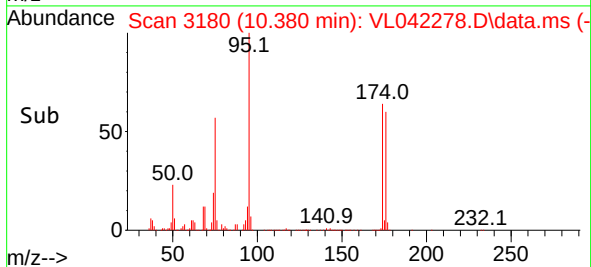
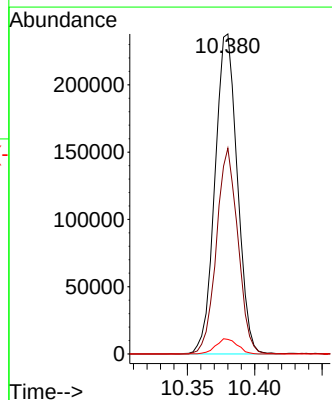
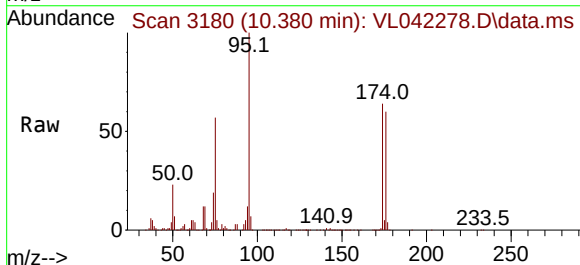
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-5-04012025

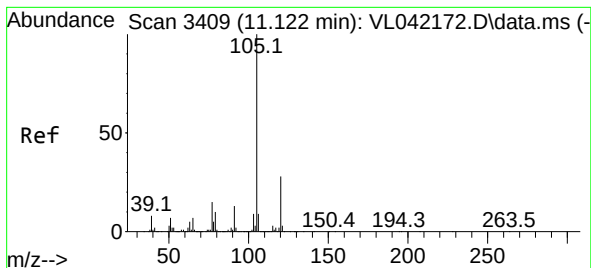
Tgt Ion:104 Resp: 3678
Ion Ratio Lower Upper
104 100
78 50.7 41.8 62.6
103 45.7 37.0 55.4



#68
1-Bromo-4-Fluorobenzene
Concen: 9.509 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.009 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

Tgt Ion: 95 Resp: 274750
Ion Ratio Lower Upper
95 100
174 61.7 50.6 76.0
175 4.6 3.8 5.6

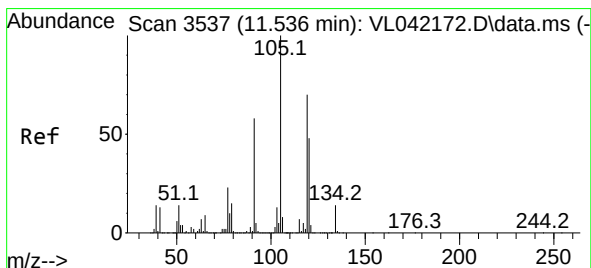
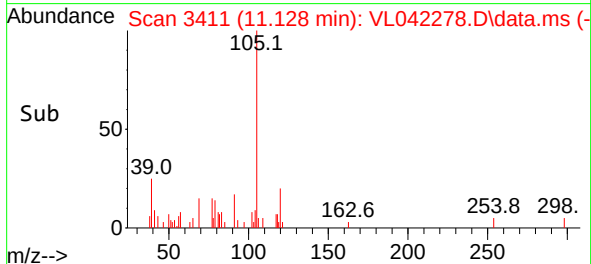
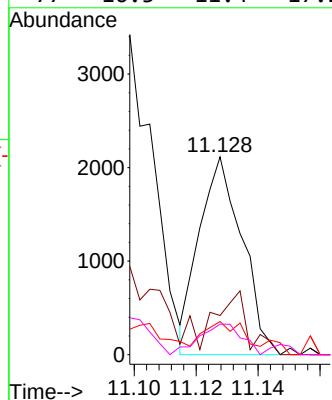
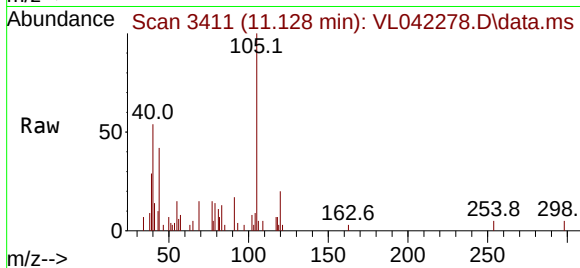




#72
4-Ethyltoluene
Concen: 0.033 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.006 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

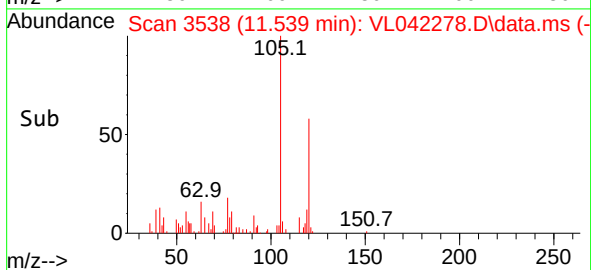
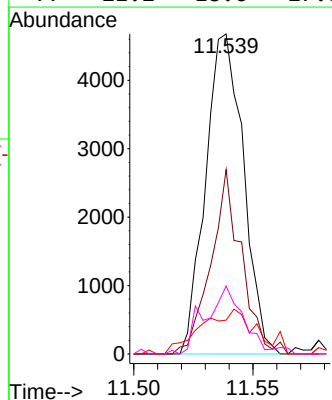
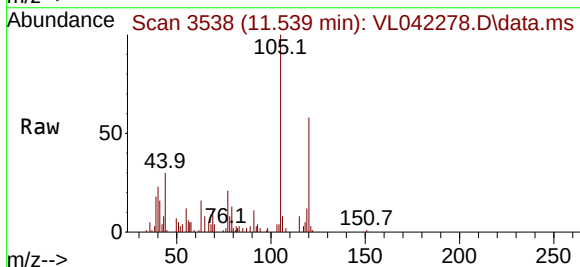
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-5-04012025

Tgt Ion:	105	Resp:	2034
Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.4	35.0#
91	21.9	10.3	15.5#
77	16.3	11.4	17.2



#74
1,2,4-Trimethylbenzene
Concen: 0.082 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042278.D
Acq: 09 Apr 2025 00:15

Tgt Ion:	105	Resp:	5159
Ion	Ratio	Lower	Upper
105	100		
120	55.5	38.6	58.0
91	7.1	46.2	69.2#
77	21.2	18.6	27.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042279.D
 Acq On : 09 Apr 2025 00:46
 Operator : SY/MD
 Sample : Q1728-04 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-7-04022025

Quant Time: Apr 09 02:03:33 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)

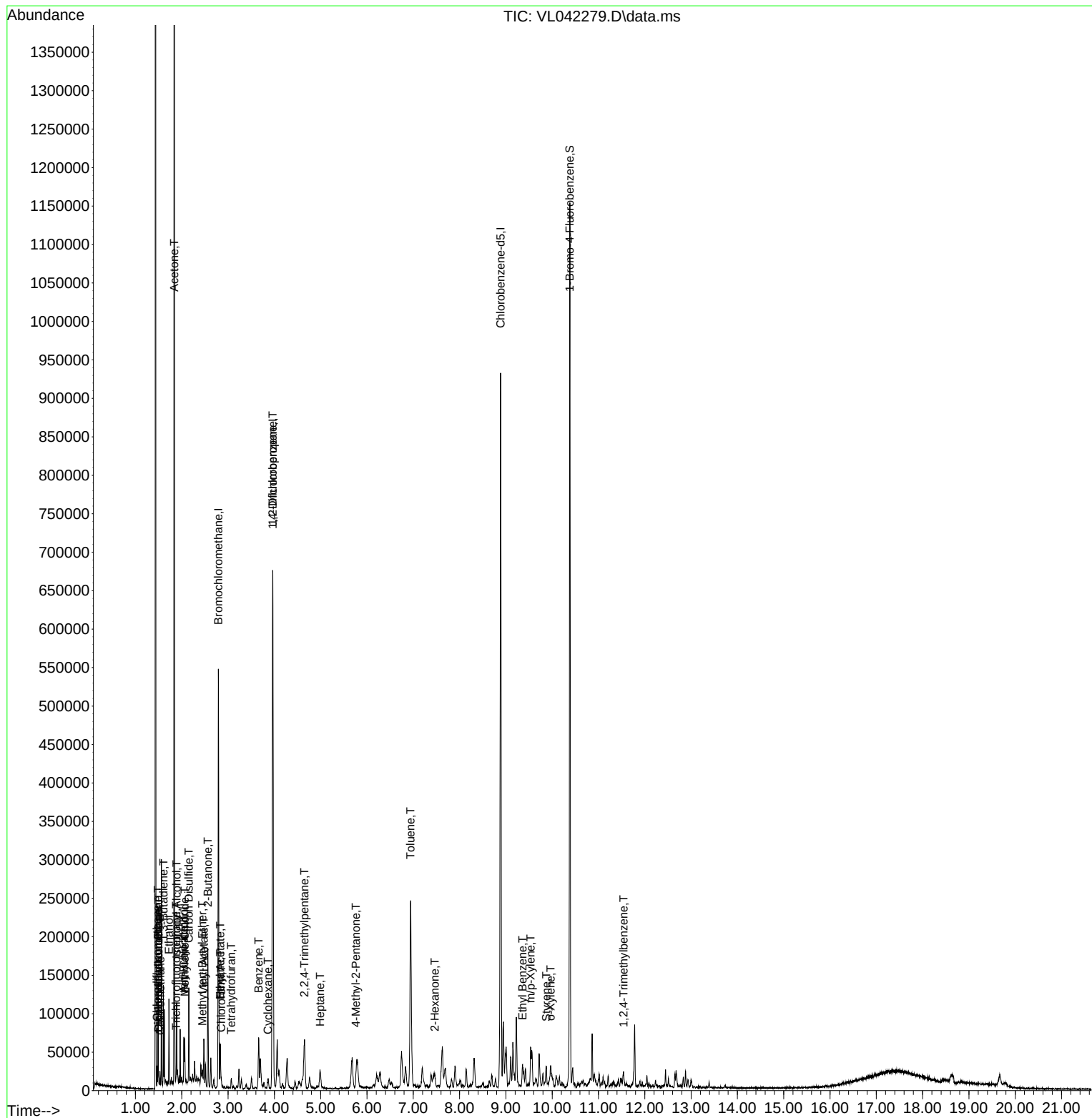
Internal Standards						
1) Bromochloromethane	2.791	49	154351	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.966	114	392096	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.885	117	376954	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.381	95	281576	9.096	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	2923	0.128	ppbv #	79
3) Chlorodifluoromethane	1.467	51	8427	0.362	ppbv #	69
4) Chloromethane	1.535	50	1839	0.197	ppbv	94
8) Dichlorotetrafluoroethane	1.499	85	2923	0.151	ppbv #	18
9) Propene	1.486	41	18452	1.729	ppbv	87
10) Heptane	4.988	43	8556	0.301	ppbv	97
11) Trichlorofluoromethane	1.878	101	1213	0.055	ppbv	88
13) Ethanol	1.723	45	35645	35.335	ppbv	84
15) Acetone	1.836	43	1394020	64.577	ppbv	95
16) 1,3-Butadiene	1.603	39	13865	1.315	ppbv #	22
17) tert-Butyl alcohol	2.046	59	20709	0.770	ppbv	96
19) Isopropyl Alcohol	1.888	45	42662	3.503	ppbv #	30
20) Methylene Chloride	2.066	84	7869	0.979	ppbv	92
21) Allyl Chloride	2.046	41	7464	0.490	ppbv #	66
23) Vinyl Acetate	2.477	43	16824	1.801	ppbv #	41
25) Ethyl Acetate	2.829	43	11586	0.207	ppbv #	88
26) Hexane	2.829	57	11117	0.514	ppbv #	36
27) Carbon Disulfide	2.153	76	63719	2.746	ppbv #	86
28) Methyl tert-Butyl Ether	2.444	73	440	0.033	ppbv #	49
29) Chloroform	2.852	83	3242	0.102	ppbv	84
30) Cyclohexane	3.862	84	2776	0.148	ppbv #	65
34) 2-Butanone	2.564	43	112551	3.959	ppbv	100
36) Benzene	3.661	78	39414	1.014	ppbv	96
39) 1,2-Dichloropropane	3.962	63	101244	7.152	ppbv #	23
41) Tetrahydrofuran	3.066	42	3332	0.204	ppbv #	69
44) 2,2,4-Trimethylpentane	4.648	57	48596	0.740	ppbv #	79
50) 4-Methyl-2-Pentanone	5.762	43	5775	0.128	ppbv #	39
51) 2-Hexanone	7.461	43	2675	0.072	ppbv #	28
53) Toluene	6.940	91	166042	3.603	ppbv	98
58) Ethyl Benzene	9.358	91	12588	0.188	ppbv #	83
59) m/p-Xylene	9.536	91	34249	0.641	ppbv	99
60) o-Xylene	9.966	91	11082	0.207	ppbv	97
61) Styrene	9.872	104	5155	0.194	ppbv	97
74) 1,2,4-Trimethylbenzene	11.539	105	4779	0.071	ppbv #	62

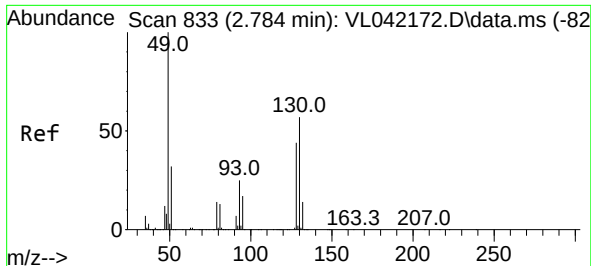
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VL042279.D
Acq On : 09 Apr 2025 00:46
Operator : SY/MD
Sample : Q1728-04 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025

Quant Time: Apr 09 02:03:33 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

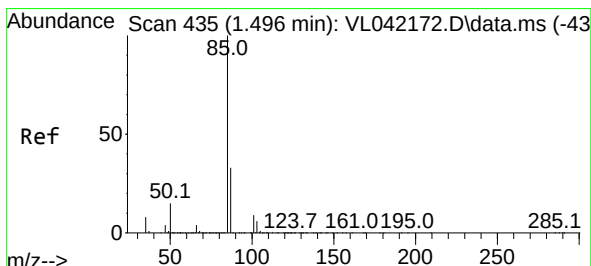
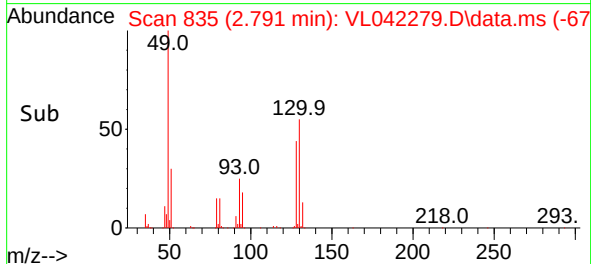
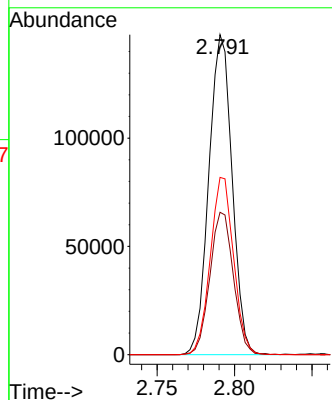
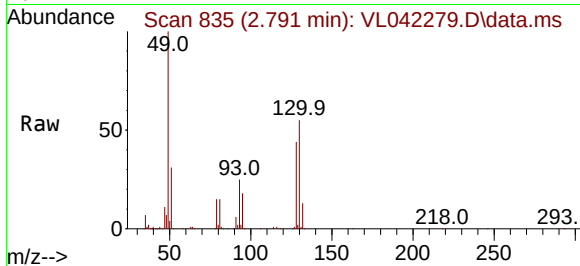




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.791 min Scan# 81
 Delta R.T. 0.007 min
 Lab File: VL042279.D
 Acq: 09 Apr 2025 00:46

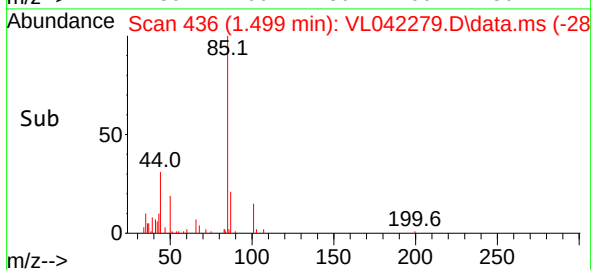
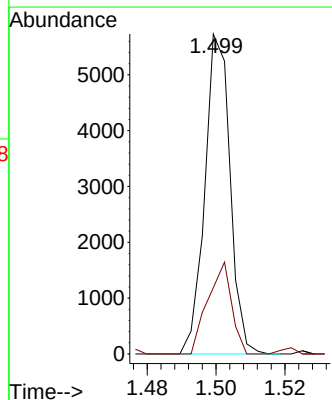
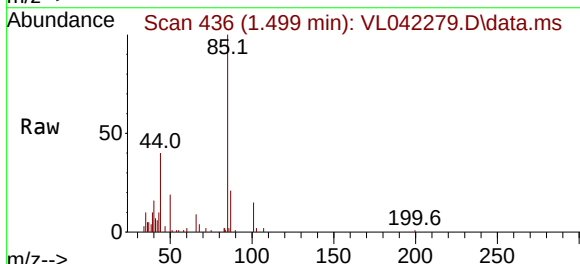
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-7-04022025

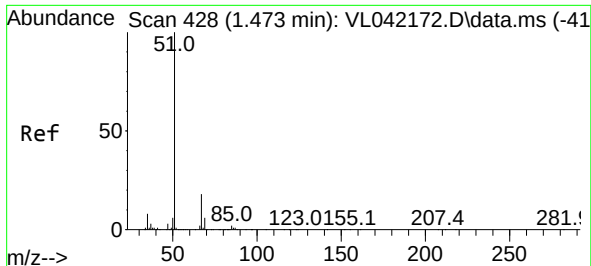
Tgt Ion: 49 Resp: 154351
 Ion Ratio Lower Upper
 49 100
 128 45.2 22.9 68.5
 130 55.5 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 0.128 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.003 min
 Lab File: VL042279.D
 Acq: 09 Apr 2025 00:46

Tgt Ion: 85 Resp: 2923
 Ion Ratio Lower Upper
 85 100
 87 20.7 26.1 39.1#

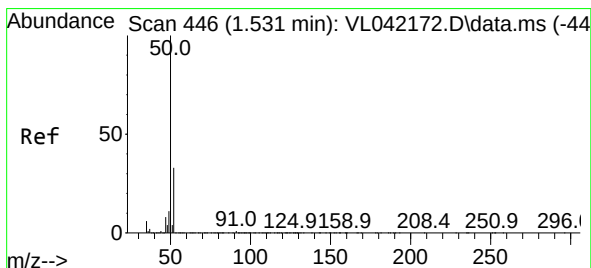
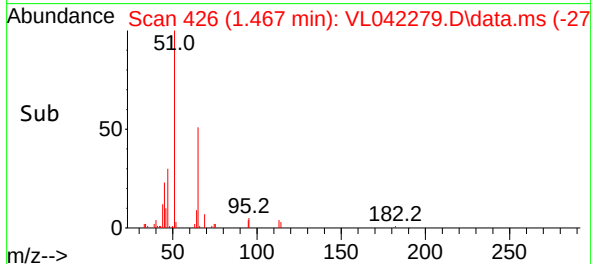
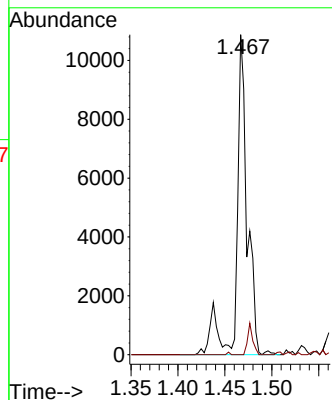
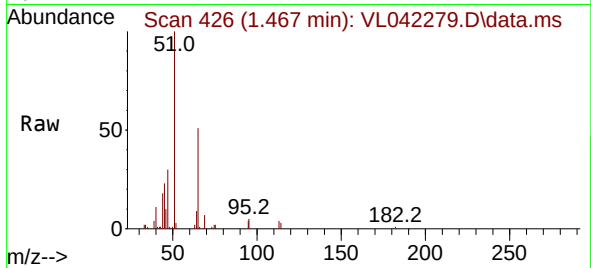




#3
Chlorodifluoromethane
Concen: 0.362 ppbv
RT: 1.467 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

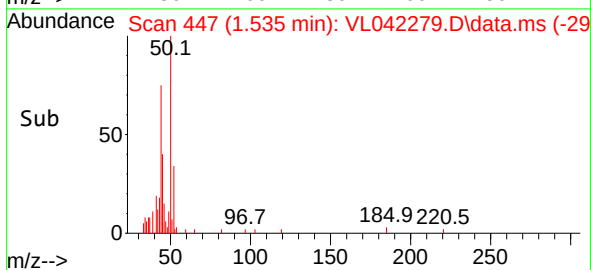
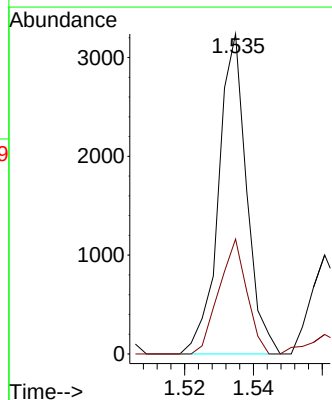
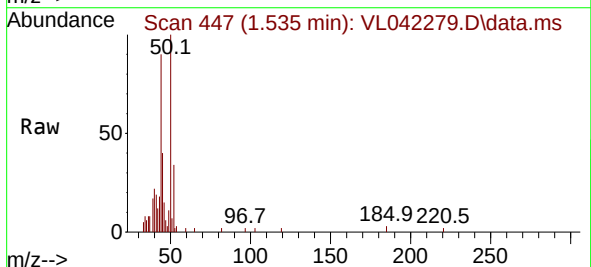
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025

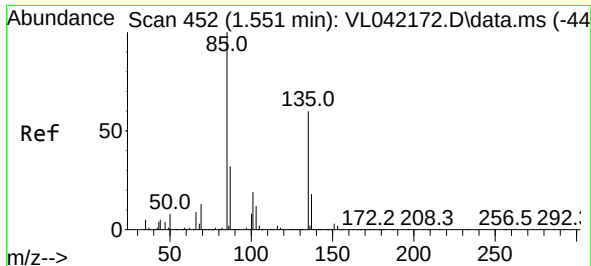
Tgt Ion: 51 Resp: 8427
Ion Ratio Lower Upper
51 100
67 4.8 15.0 22.6#



#4
Chloromethane
Concen: 0.197 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

Tgt Ion: 50 Resp: 1839
Ion Ratio Lower Upper
50 100
52 35.9 26.1 39.1

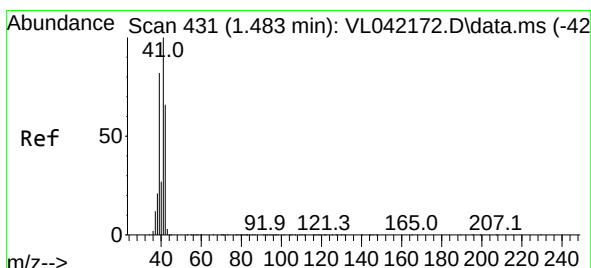
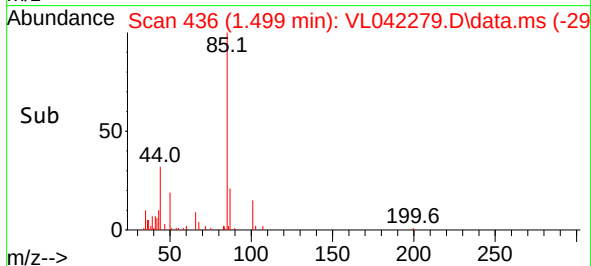
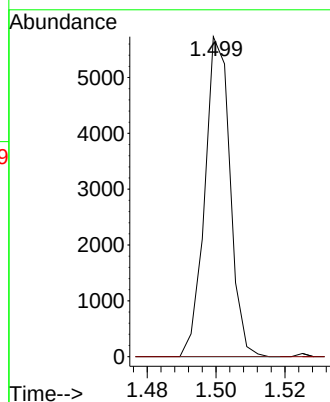
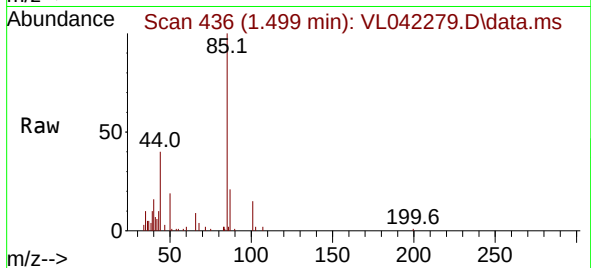




#8
 Dichlorotetrafluoroethane
 Concen: 0.151 ppbv
 RT: 1.499 min Scan# 41
 Delta R.T. -0.052 min
 Lab File: VL042279.D
 Acq: 09 Apr 2025 00:46

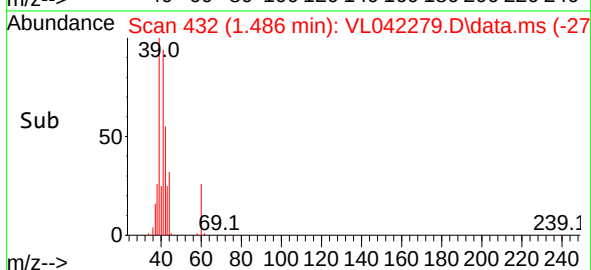
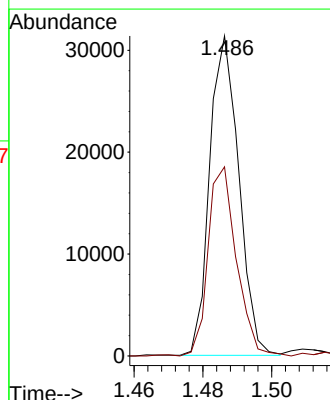
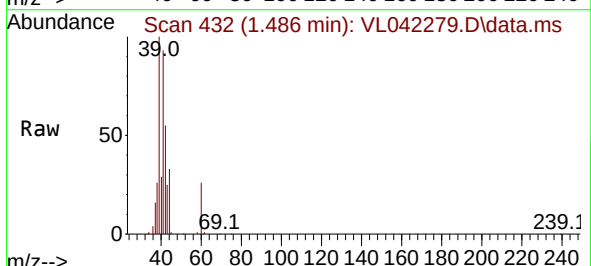
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 ClientSampleId :
 SSSG-B2-7-04022025

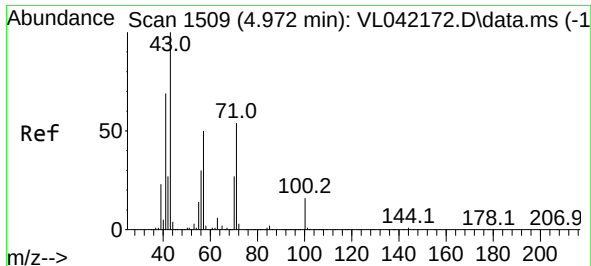
Tgt Ion: 85 Resp: 2923
 Ion Ratio Lower Upper
 85 100
 135 0.9 52.4 78.6#



#9
 Propene
 Concen: 1.729 ppbv
 RT: 1.486 min Scan# 432
 Delta R.T. 0.003 min
 Lab File: VL042279.D
 Acq: 09 Apr 2025 00:46

Tgt Ion: 41 Resp: 18452
 Ion Ratio Lower Upper
 41 100
 42 58.8 55.4 83.2

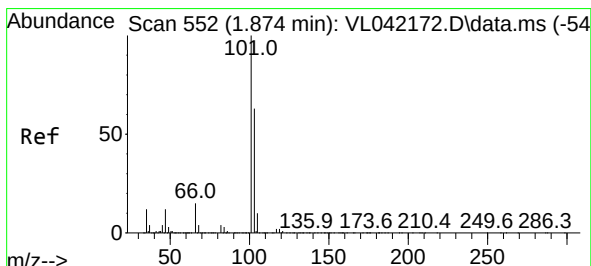
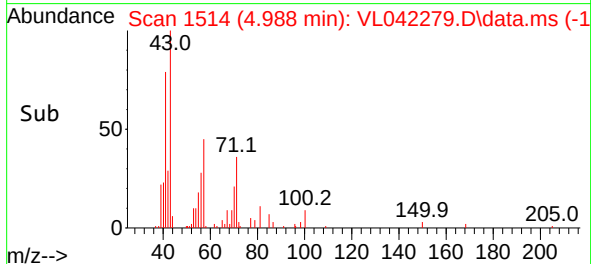
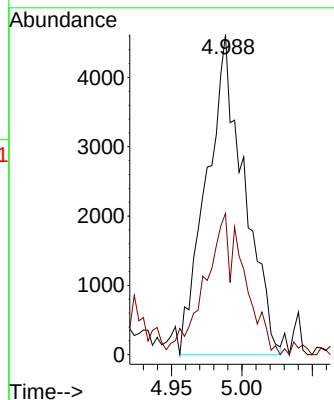
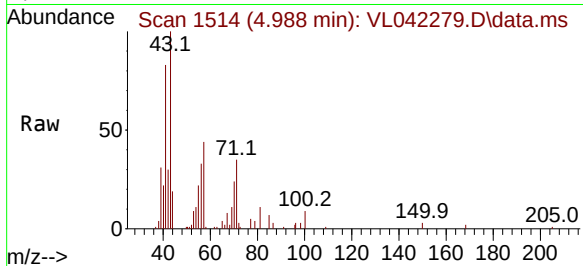




#10
 Heptane
 Concen: 0.301 ppbv
 RT: 4.988 min Scan# 11
 Delta R.T. 0.016 min
 Lab File: VL042279.D
 Acq: 09 Apr 2025 00:46

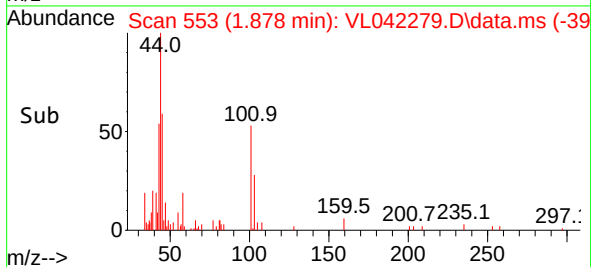
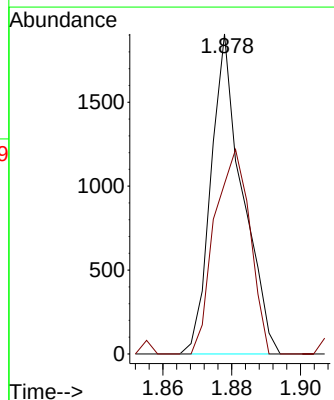
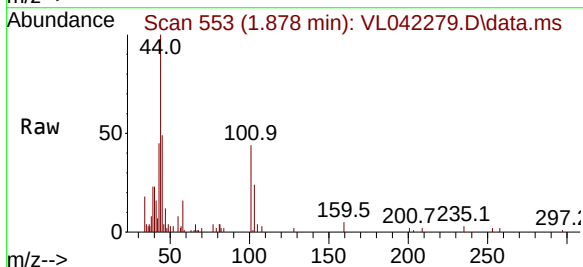
Instrument :
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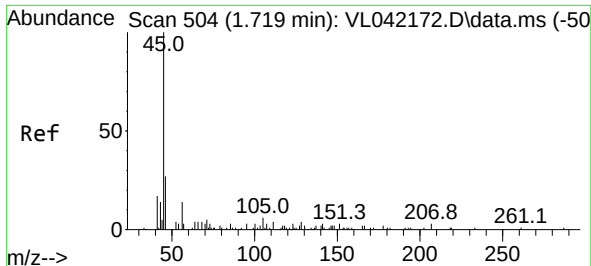
Tgt Ion: 43 Resp: 8556
 Ion Ratio Lower Upper
 43 100
 57 47.5 39.4 59.2



#11
 Trichlorofluoromethane
 Concen: 0.055 ppbv
 RT: 1.878 min Scan# 553
 Delta R.T. 0.003 min
 Lab File: VL042279.D
 Acq: 09 Apr 2025 00:46

Tgt Ion: 101 Resp: 1213
 Ion Ratio Lower Upper
 101 100
 103 53.2 50.2 75.2

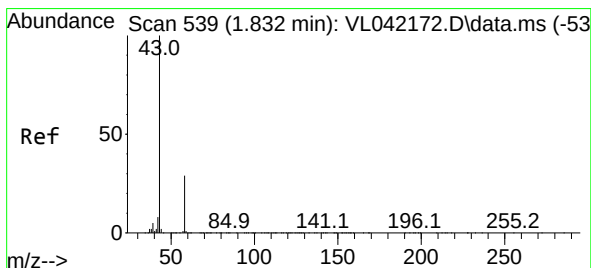
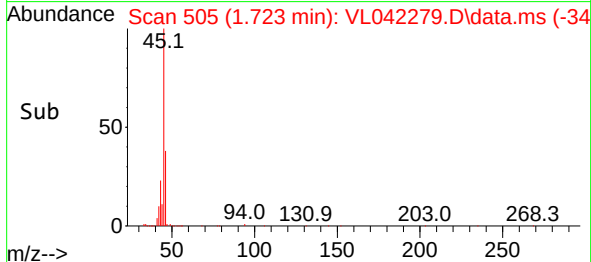
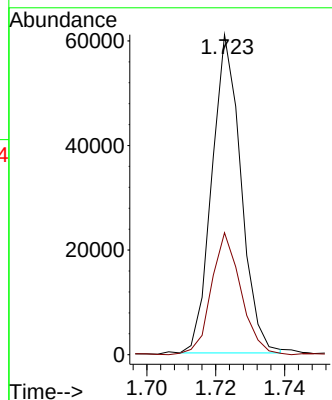
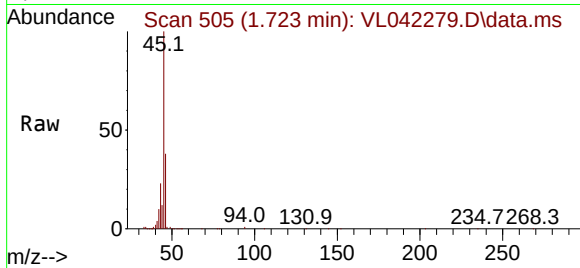




#13
Ethanol
Concen: 35.335 ppbv
RT: 1.723 min Scan# 50
Delta R.T. 0.003 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

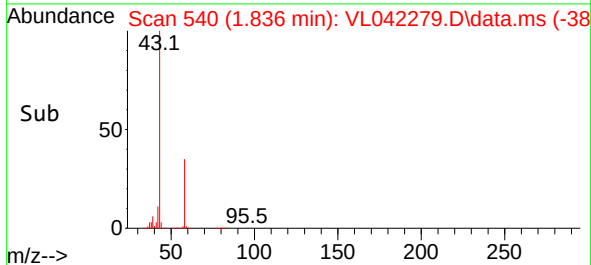
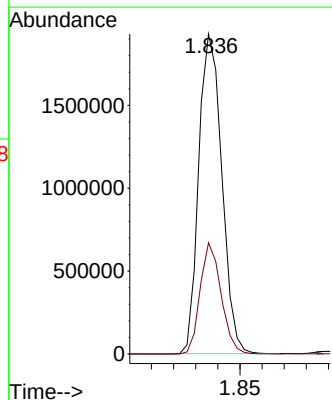
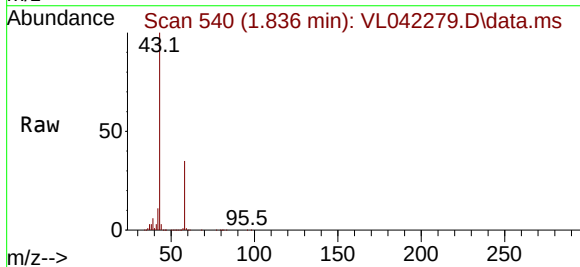
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B2-7-04022025

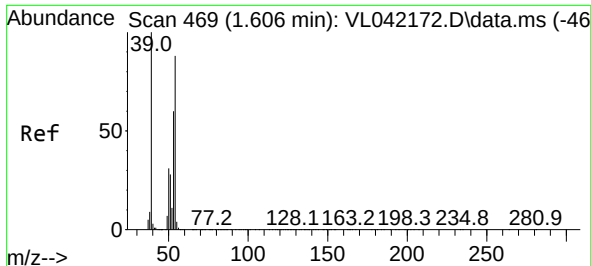
Tgt Ion: 45 Resp: 35645
Ion Ratio Lower Upper
45 100
46 39.6 20.2 80.8



#15
Acetone
Concen: 64.577 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

Tgt Ion: 43 Resp: 1394020
Ion Ratio Lower Upper
43 100
58 31.7 23.2 34.8





#16

1,3-Butadiene

Concen: 1.315 ppbv

RT: 1.603 min Scan# 4

Delta R.T. -0.003 min

Lab File: VL042279.D

Acq: 09 Apr 2025 00:46

Instrument :

MSVOA_1

ClientSampleId :

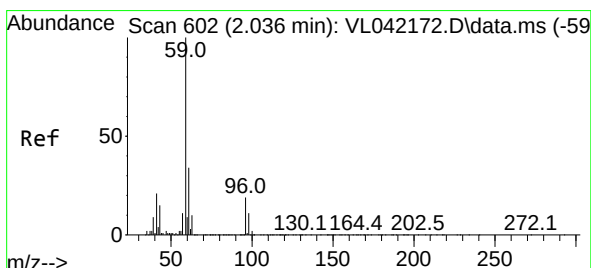
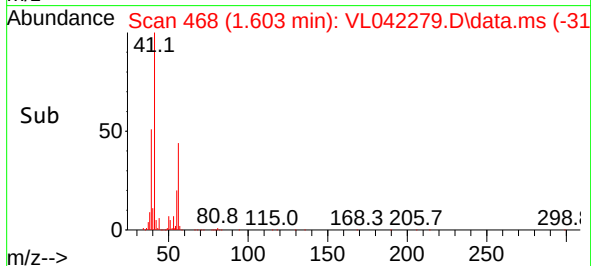
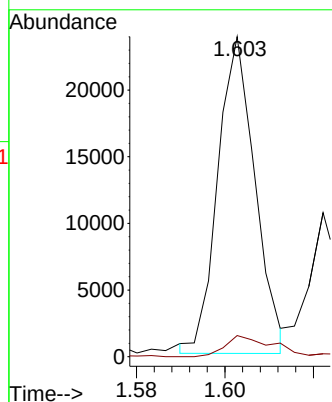
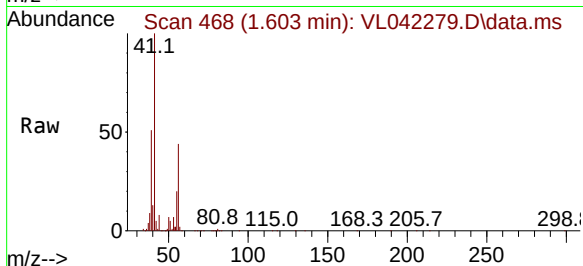
SSSG-B2-7-04022025

Tgt Ion: 39 Resp: 13865

Ion Ratio Lower Upper

39 100

54 9.3 60.7 91.1#



#17

tert-Butyl alcohol

Concen: 0.770 ppbv

RT: 2.046 min Scan# 605

Delta R.T. 0.010 min

Lab File: VL042279.D

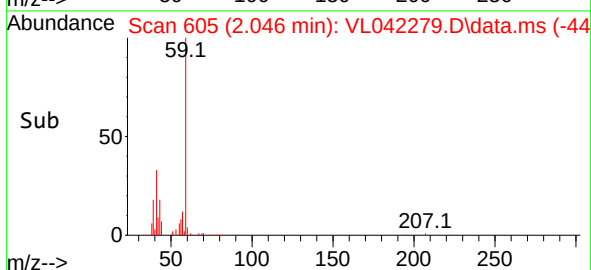
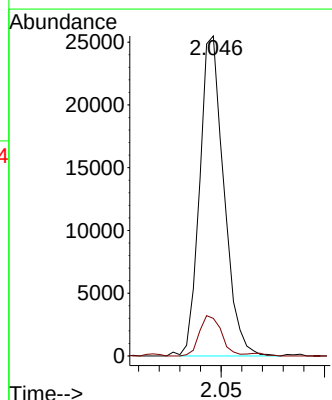
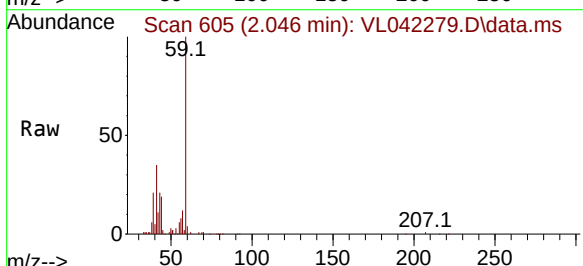
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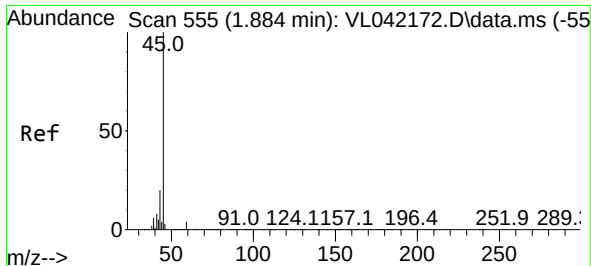
Tgt Ion: 59 Resp: 20709

Ion Ratio Lower Upper

59 100

57 12.5 8.9 13.3

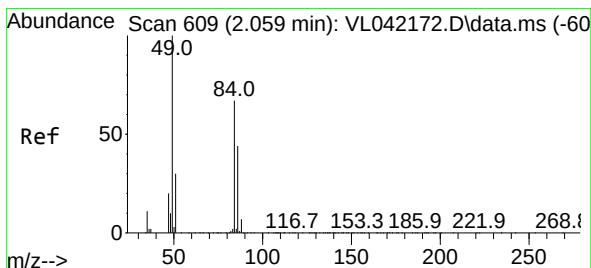
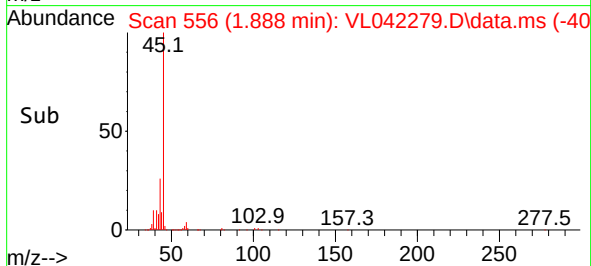
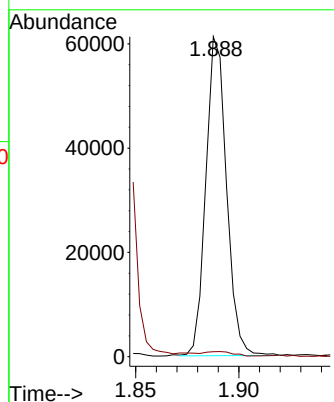
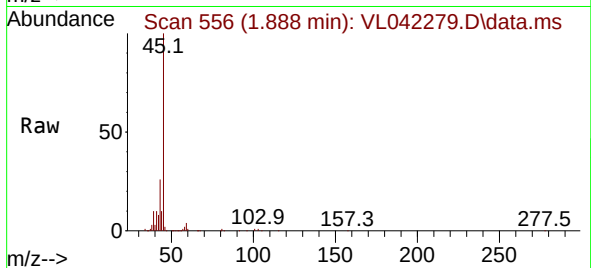




#19
Isopropyl Alcohol
Concen: 3.503 ppbv
RT: 1.888 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

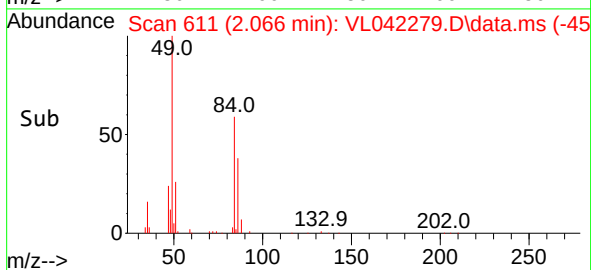
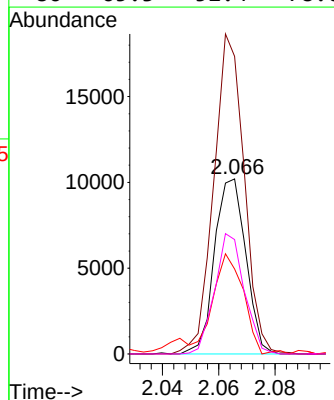
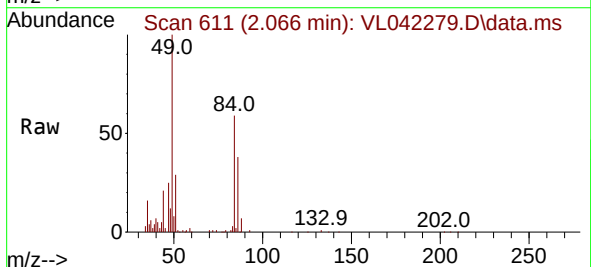
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ClientSampleId :
SSSG-B2-7-04022025

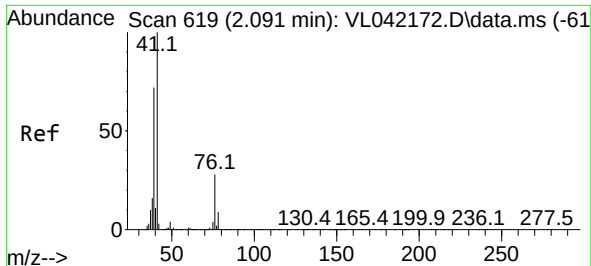
Tgt Ion: 45 Resp: 42662
Ion Ratio Lower Upper
45 100
58 0.0 36.9 55.3#



#20
Methylene Chloride
Concen: 0.979 ppbv
RT: 2.066 min Scan# 611
Delta R.T. 0.007 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

Tgt Ion: 84 Resp: 7869
Ion Ratio Lower Upper
84 100
49 168.9 120.2 180.4
51 46.6 37.4 56.0
86 65.3 52.4 78.6

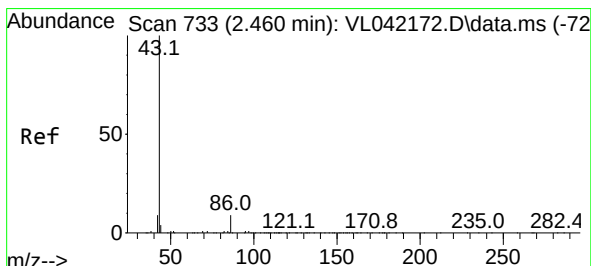
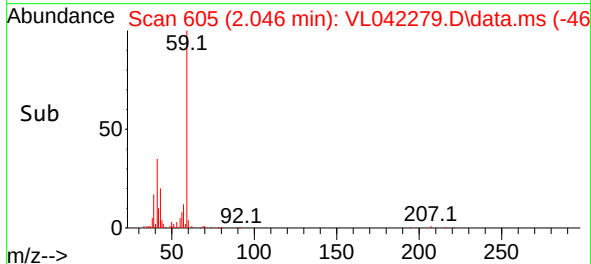
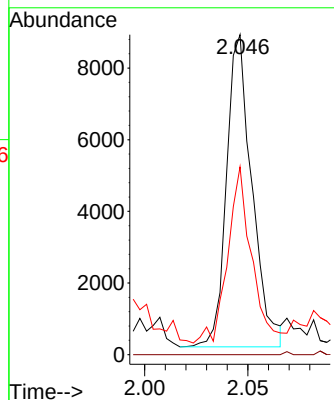
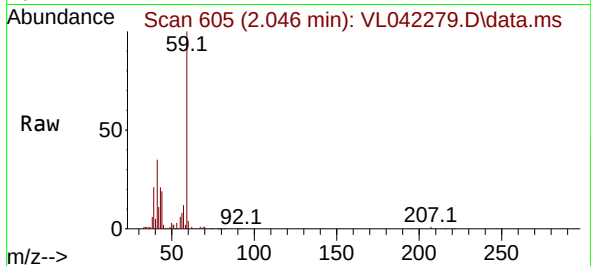




#21
 Allyl Chloride
 Concen: 0.490 ppbv
 RT: 2.046 min Scan# 61
 Delta R.T. -0.045 min
 Lab File: VL042279.D
 Acq: 09 Apr 2025 00:46

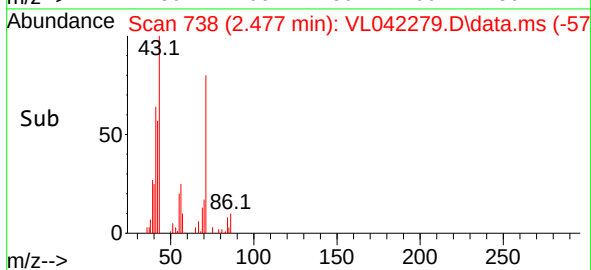
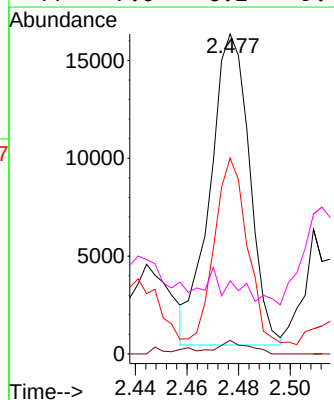
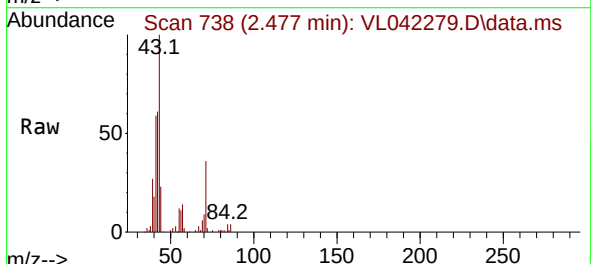
Instrument :
 MSVOA_1
 ClientSampleId :
 SSSG-B2-7-04022025

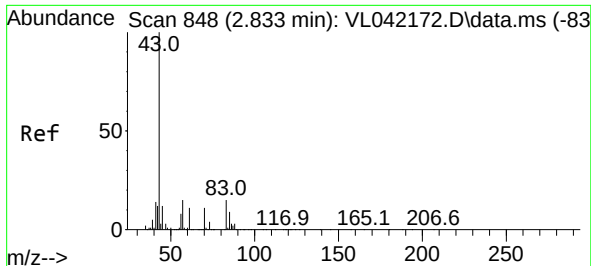
Tgt Ion: 41 Resp: 7464
 Ion Ratio Lower Upper
 41 100
 76 0.0 24.1 36.1#
 39 54.9 61.1 91.7#



#23
 Vinyl Acetate
 Concen: 1.801 ppbv
 RT: 2.477 min Scan# 738
 Delta R.T. 0.016 min
 Lab File: VL042279.D
 Acq: 09 Apr 2025 00:46

Tgt Ion: 43 Resp: 16824
 Ion Ratio Lower Upper
 43 100
 86 4.5 5.5 8.3#
 42 60.7 8.6 13.0#
 44 7.0 6.2 9.4

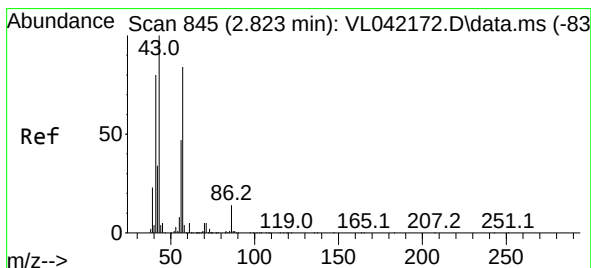
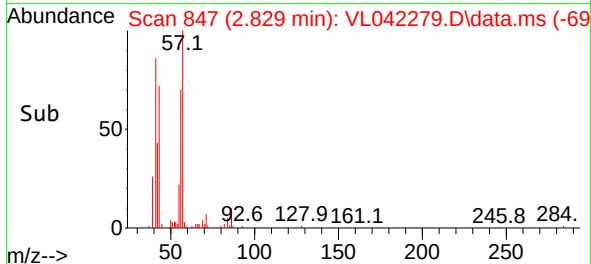
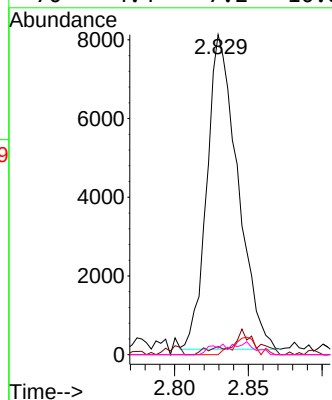
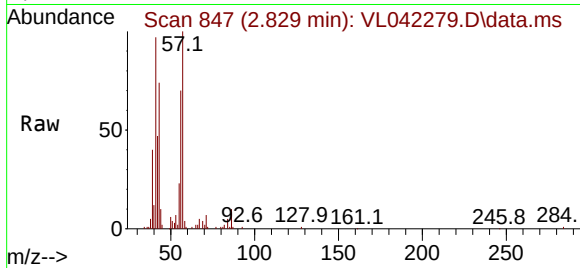




#25
Ethyl Acetate
Concen: 0.207 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.003 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

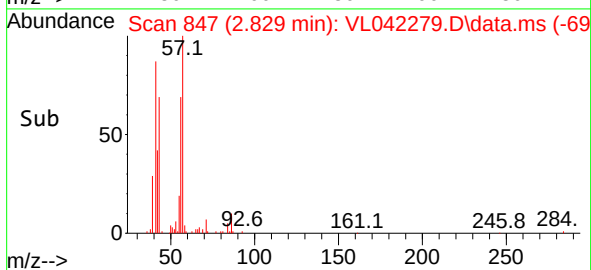
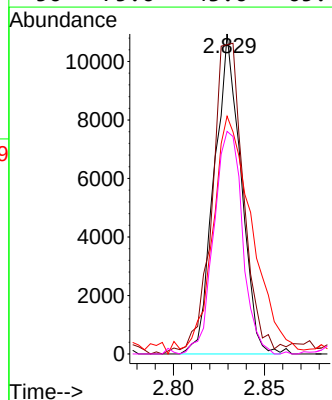
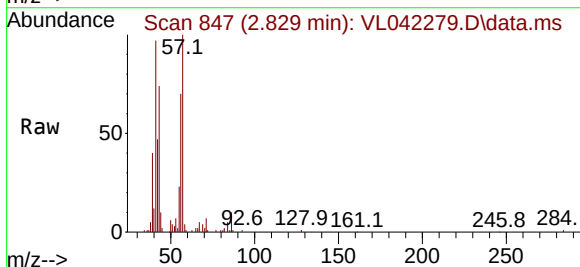
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B2-7-04022025

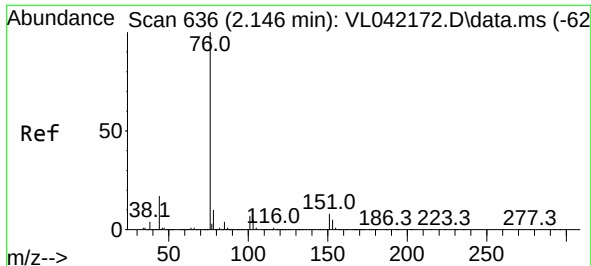
Tgt Ion: 43	Resp: 11586
Ion Ratio	Lower Upper
43 100	
45 6.8	8.2 12.2#
61 4.0	7.3 10.9#
70 4.4	7.2 10.8#



#26
Hexane
Concen: 0.514 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.007 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

Tgt Ion: 57	Resp: 11117
Ion Ratio	Lower Upper
57 100	
41 118.7	76.6 114.8#
43 107.1	207.8 311.8#
56 75.6	43.6 65.4#

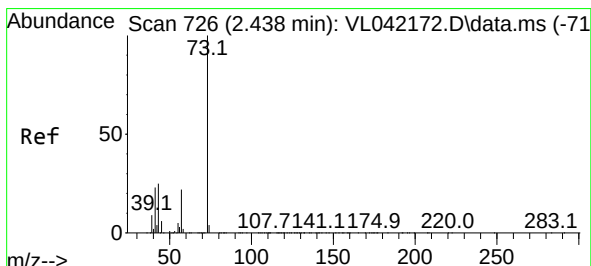
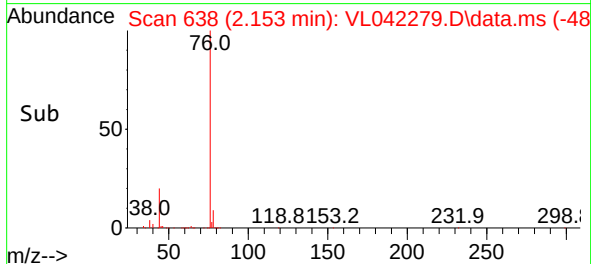
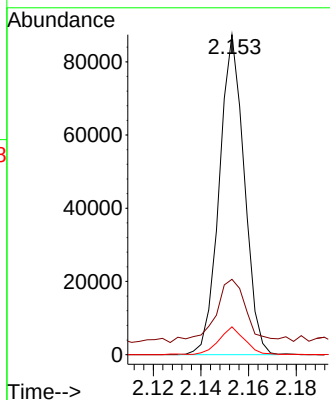
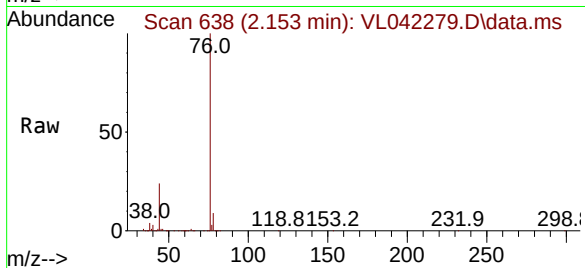




#27
Carbon Disulfide
Concen: 2.746 ppbv
RT: 2.153 min Scan# 61
Delta R.T. 0.007 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

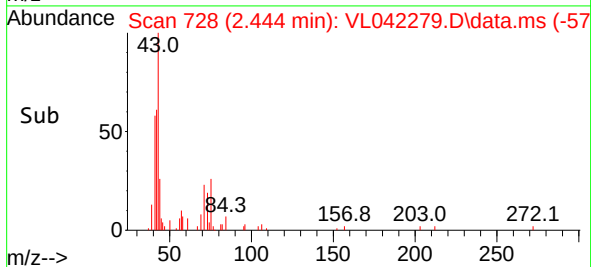
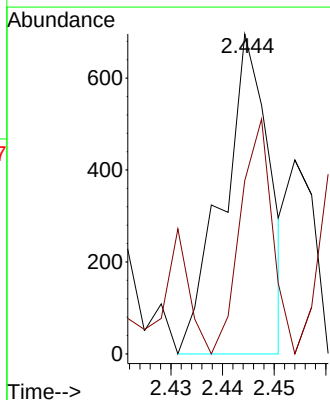
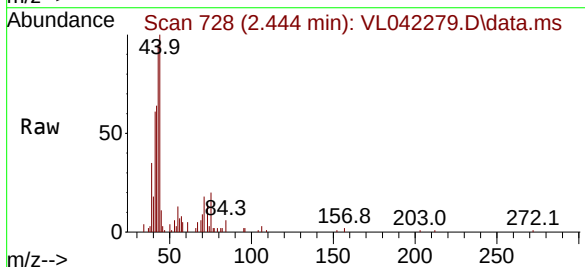
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025

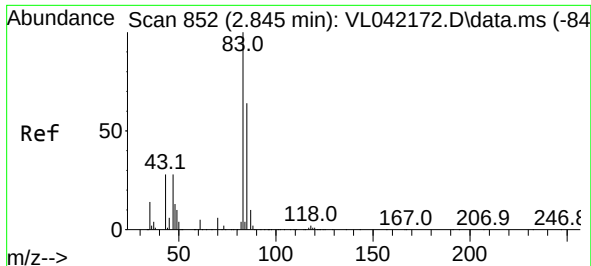
Tgt Ion: 76 Resp: 63719
Ion Ratio Lower Upper
76 100
44 27.1 14.7 22.1#
78 9.2 9.3 13.9#



#28
Methyl tert-Butyl Ether
Concen: 0.033 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.007 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

Tgt Ion: 73 Resp: 440
Ion Ratio Lower Upper
73 100
57 0.0 20.5 30.7#





#29

Chloroform

Concen: 0.102 ppbv

RT: 2.852 min Scan# 81

Delta R.T. 0.007 min

Lab File: VL042279.D

Acq: 09 Apr 2025 00:46

Instrument :

MSVOA_L

ClientSampleId :

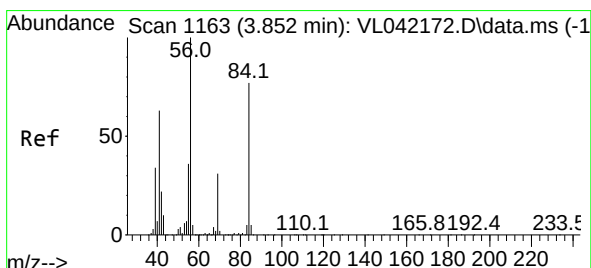
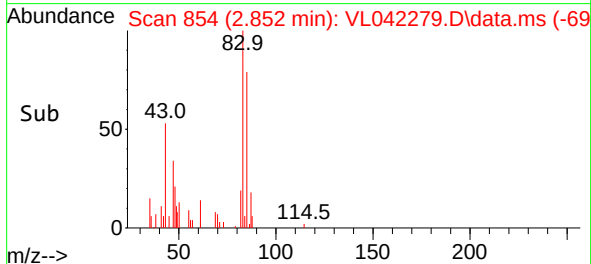
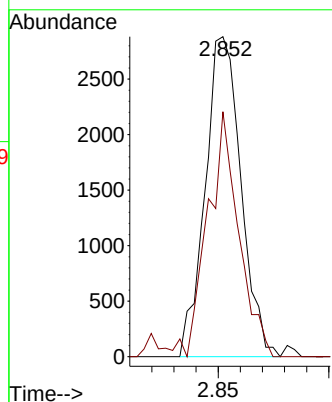
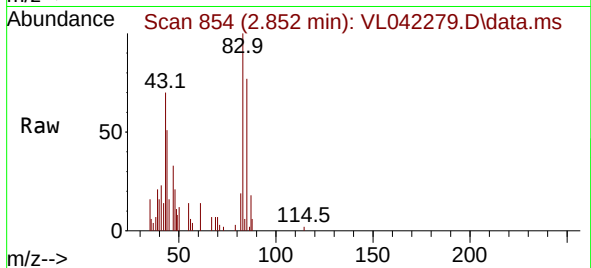
SSSG-B2-7-04022025

Tgt Ion: 83 Resp: 3242

Ion Ratio Lower Upper

83 100

85 76.6 51.4 77.2



#30

Cyclohexane

Concen: 0.148 ppbv

RT: 3.862 min Scan# 1166

Delta R.T. 0.010 min

Lab File: VL042279.D

Acq: 09 Apr 2025 00:46

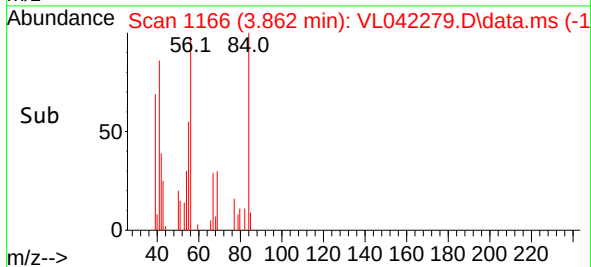
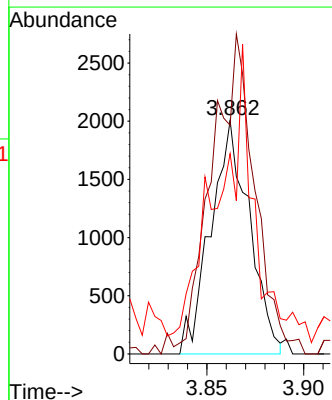
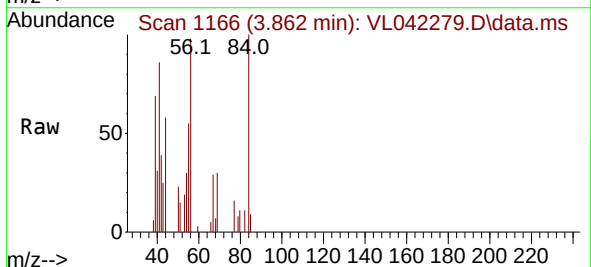
Tgt Ion: 84 Resp: 2776

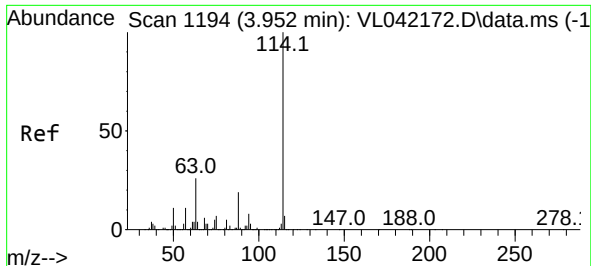
Ion Ratio Lower Upper

84 100

56 153.2 102.8 154.2

41 134.2 66.5 99.7#

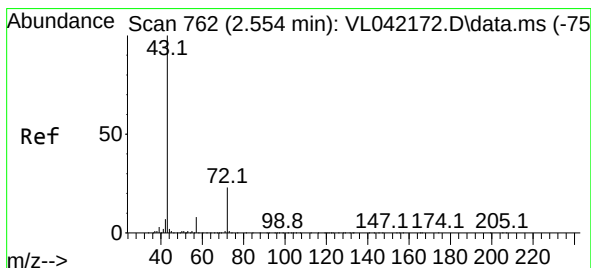
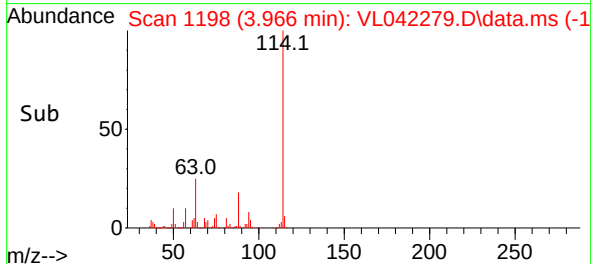
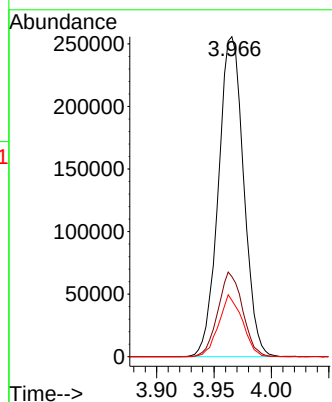
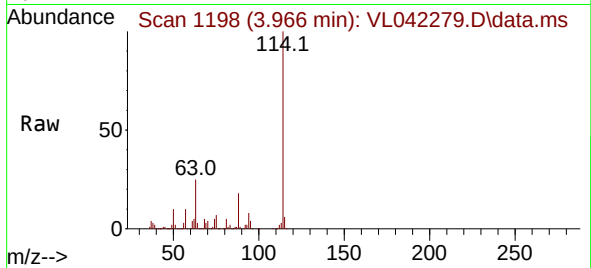




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.966 min Scan# 1198
Delta R.T. 0.013 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

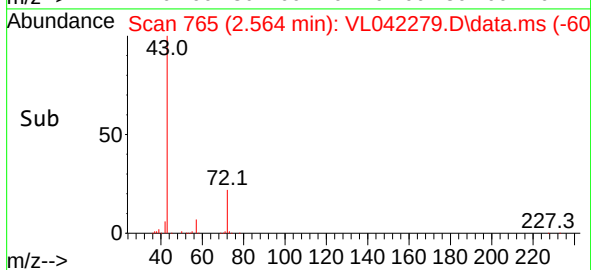
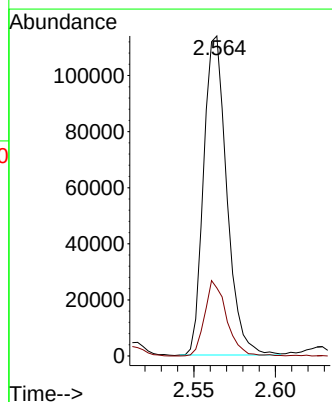
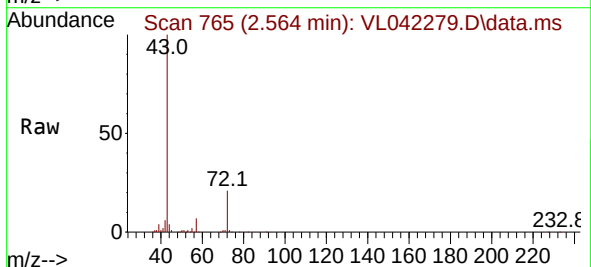
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025

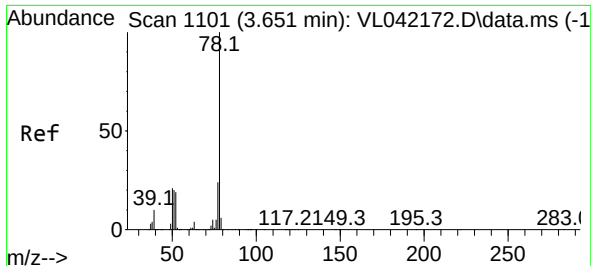
Tgt Ion:114 Resp: 392096
Ion Ratio Lower Upper
114 100
63 25.8 20.7 31.1
88 18.1 15.0 22.4



#34
2-Butanone
Concen: 3.959 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

Tgt Ion: 43 Resp: 112551
Ion Ratio Lower Upper
43 100
72 22.5 18.2 27.2

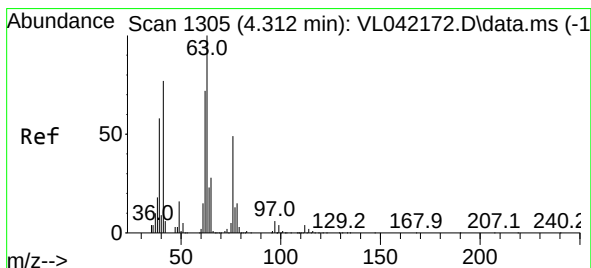
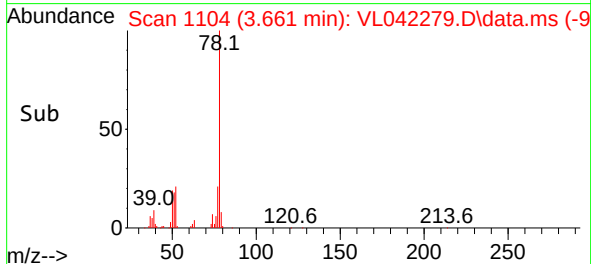
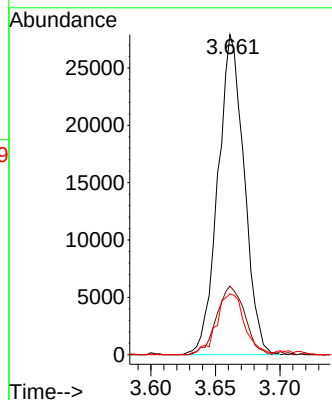
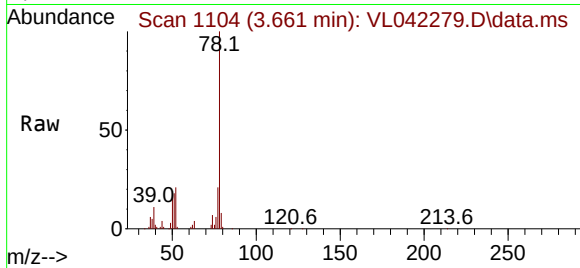




#36
Benzene
Concen: 1.014 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.010 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

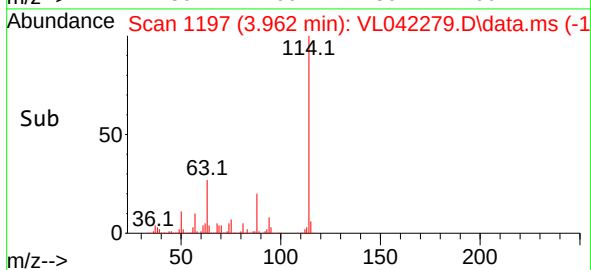
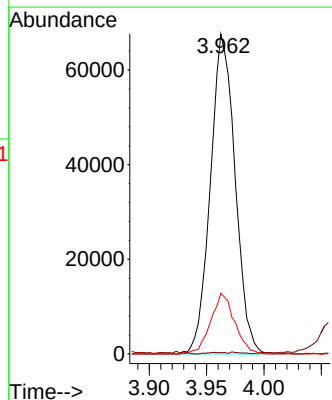
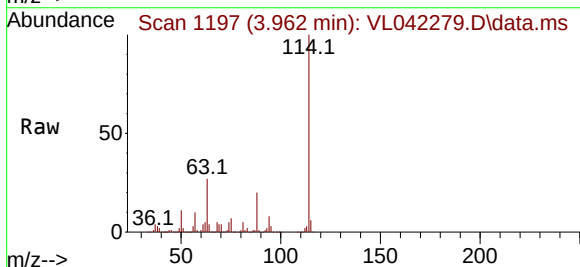
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B2-7-04022025

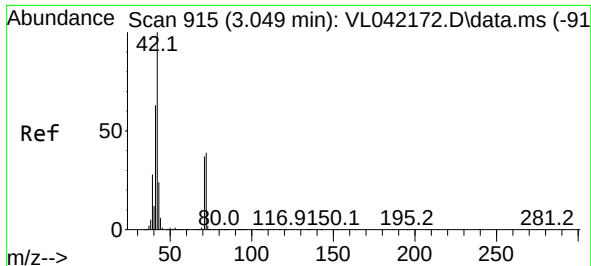
Tgt Ion:	78	Resp:	39414
Ion	Ratio	Lower	Upper
78	100		
77	21.4	19.1	28.7
50	19.0	16.6	24.8



#39
1,2-Dichloropropane
Concen: 7.152 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. -0.349 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

Tgt Ion:	63	Resp:	101244
Ion	Ratio	Lower	Upper
63	100		
41	0.1	61.7	92.5#
62	18.9	57.6	86.4#

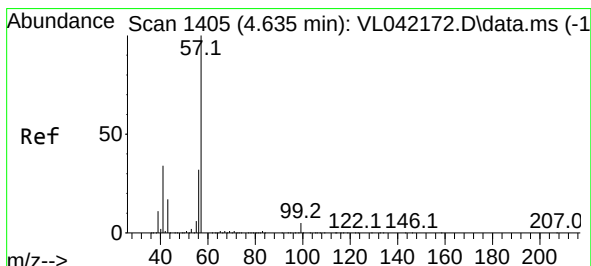
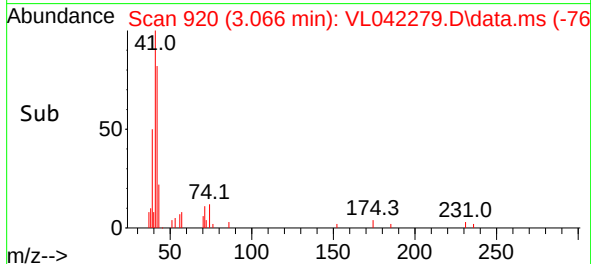
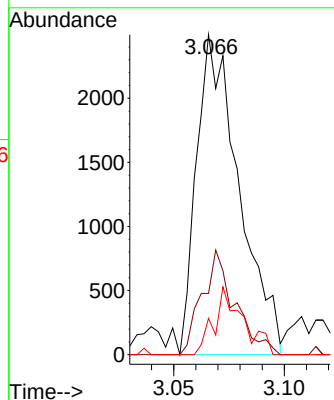
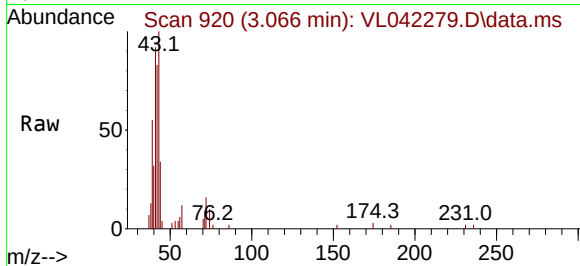




#41
Tetrahydrofuran
Concen: 0.204 ppbv
RT: 3.066 min Scan# 915
Delta R.T. 0.016 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

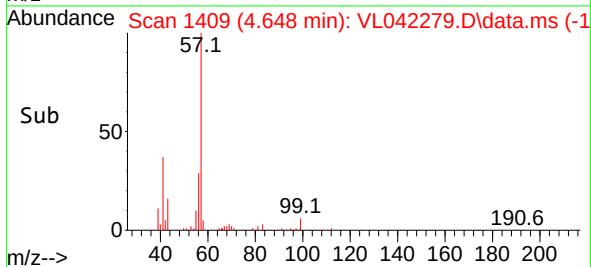
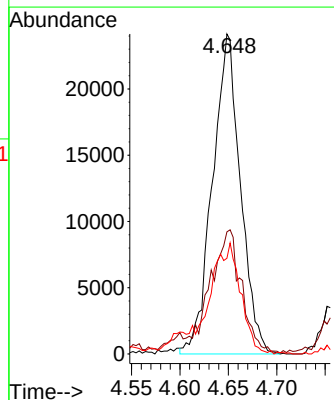
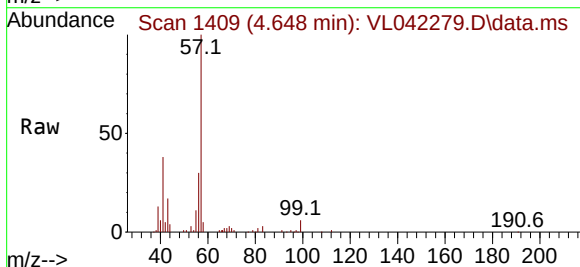
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025

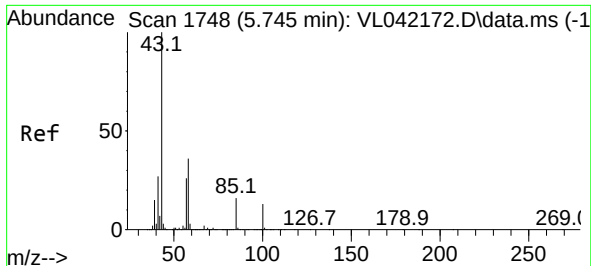
Tgt Ion: 42 Resp: 3332
Ion Ratio Lower Upper
42 100
72 25.2 31.4 47.0#
71 14.3 30.2 45.4#



#44
2,2,4-Trimethylpentane
Concen: 0.740 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.013 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

Tgt Ion: 57 Resp: 48596
Ion Ratio Lower Upper
57 100
41 46.5 26.8 40.2#
56 42.7 25.6 38.4#

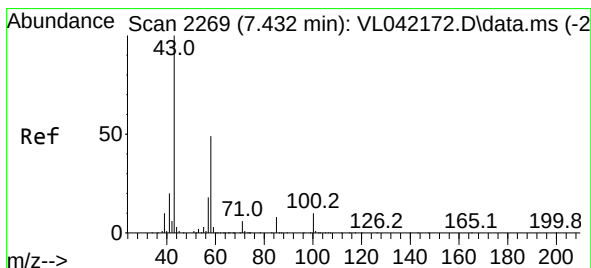
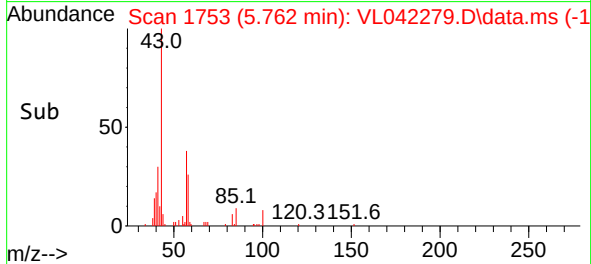
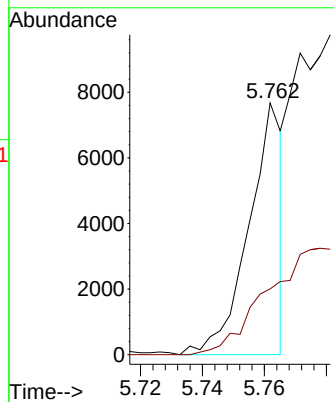
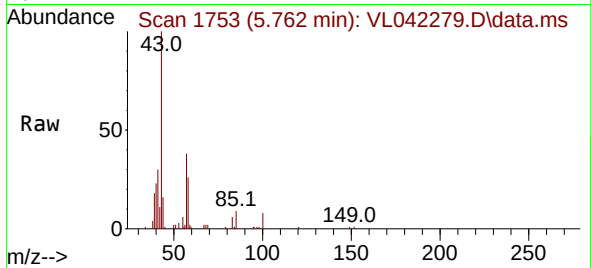




#50
4-Methyl-2-Pentanone
Concen: 0.128 ppbv
RT: 5.762 min Scan# 1753
Delta R.T. 0.016 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

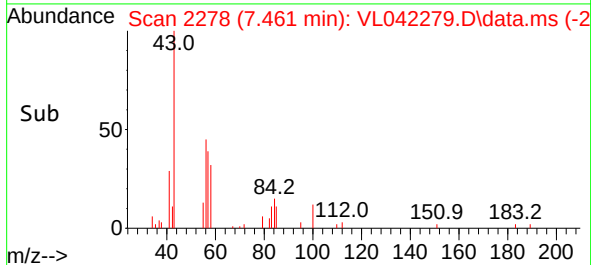
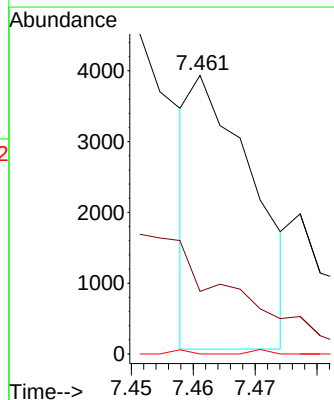
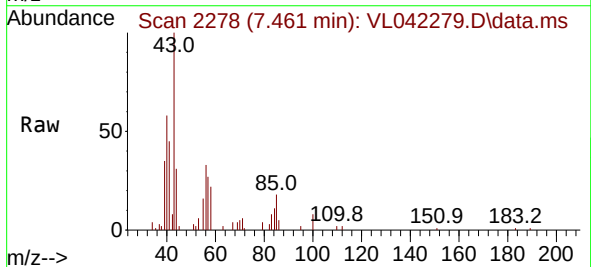
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B2-7-04022025

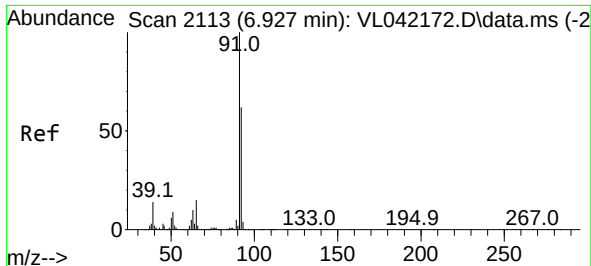
Tgt Ion: 43 Resp: 5775
Ion Ratio Lower Upper
43 100
58 0.0 29.0 43.6#



#51
2-Hexanone
Concen: 0.072 ppbv
RT: 7.461 min Scan# 2278
Delta R.T. 0.029 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

Tgt Ion: 43 Resp: 2675
Ion Ratio Lower Upper
43 100
58 0.0 39.7 59.5#
98 0.0 0.1 0.1#

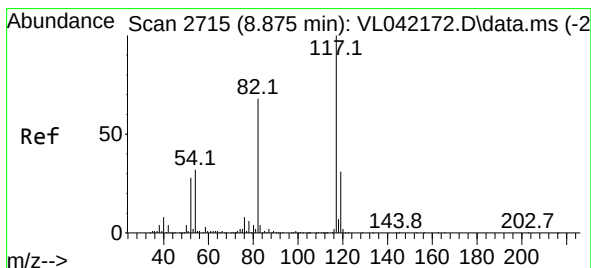
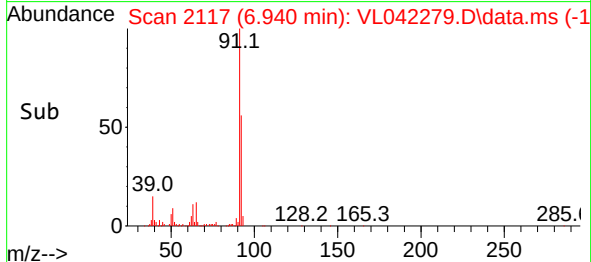
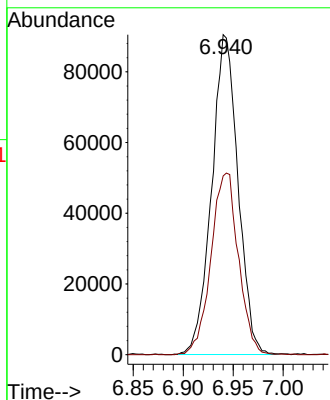
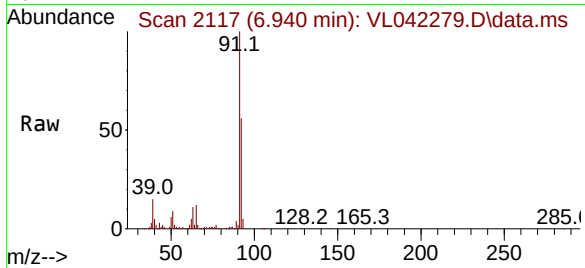




#53
Toluene
Concen: 3.603 ppbv
RT: 6.940 min Scan# 2113
Delta R.T. 0.013 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

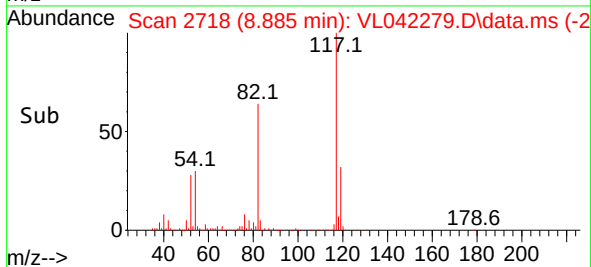
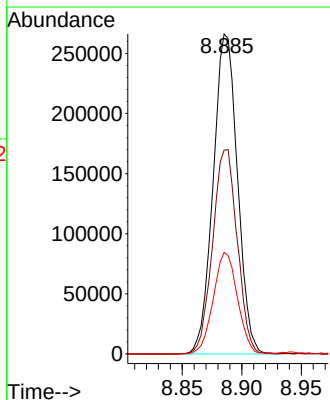
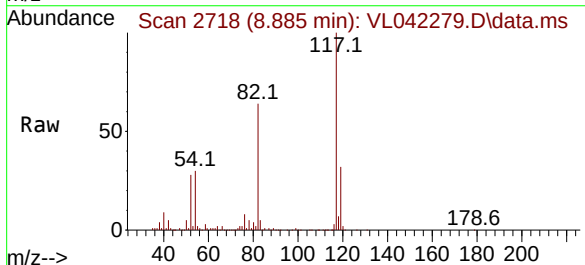
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025

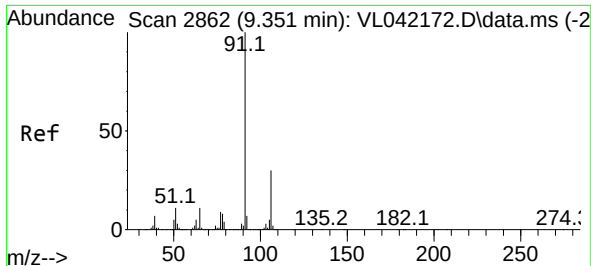
Tgt Ion: 91 Resp: 166042
Ion Ratio Lower Upper
91 100
92 59.2 48.4 72.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.010 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

Tgt Ion: 117 Resp: 376954
Ion Ratio Lower Upper
117 100
82 64.7 55.8 83.6
119 31.7 25.5 38.3





#58

Ethyl Benzene

Concen: 0.188 ppbv

RT: 9.358 min Scan# 21

Delta R.T. 0.007 min

Lab File: VL042279.D

Acq: 09 Apr 2025 00:46

Instrument :

MSVOA_L

ClientSampleId :

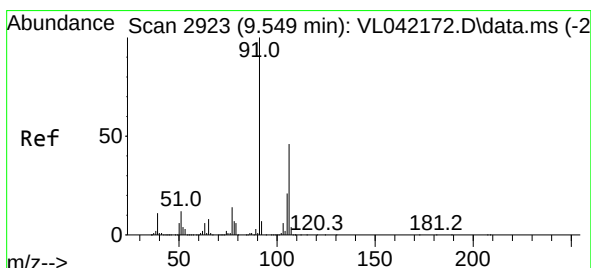
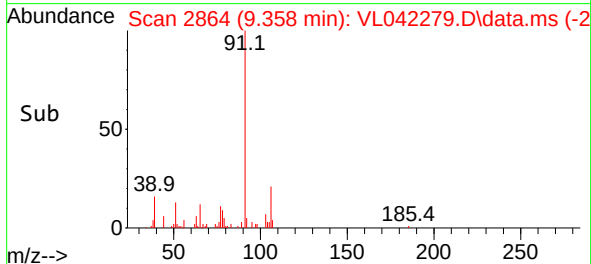
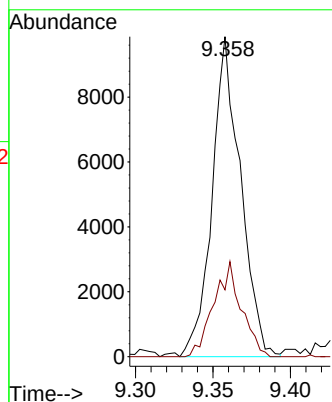
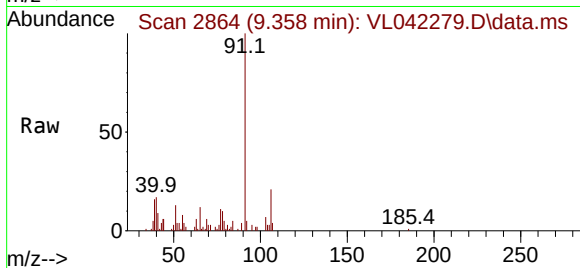
SSSG-B2-7-04022025

Tgt Ion: 91 Resp: 12588

Ion Ratio Lower Upper

91 100

106 20.9 24.2 36.2#



#59

m/p-Xylene

Concen: 0.641 ppbv

RT: 9.536 min Scan# 2919

Delta R.T. -0.013 min

Lab File: VL042279.D

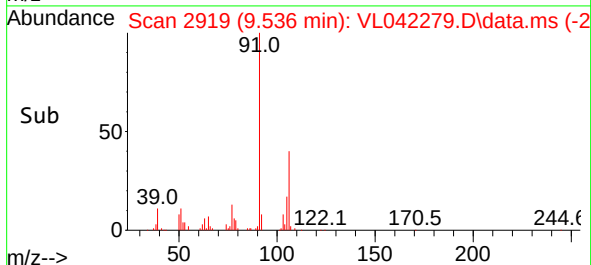
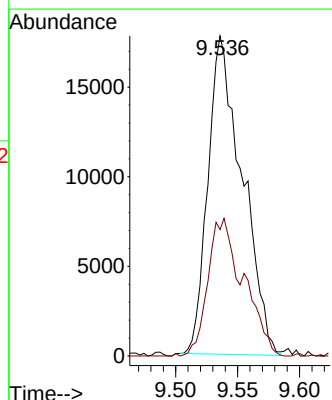
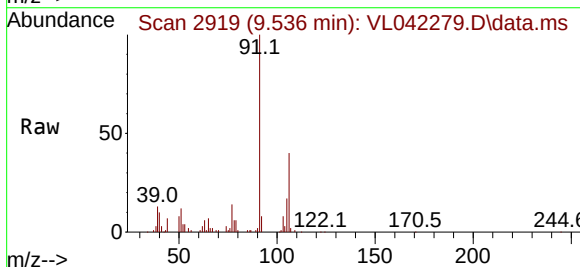
Acq: 09 Apr 2025 00:46

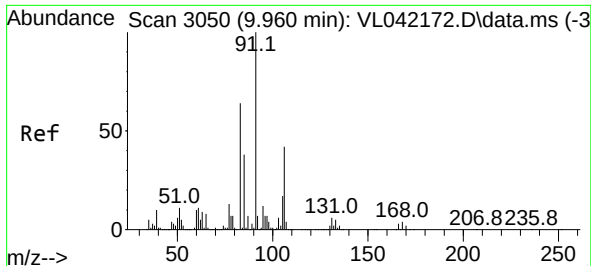
Tgt Ion: 91 Resp: 34249

Ion Ratio Lower Upper

91 100

106 45.1 36.4 54.6

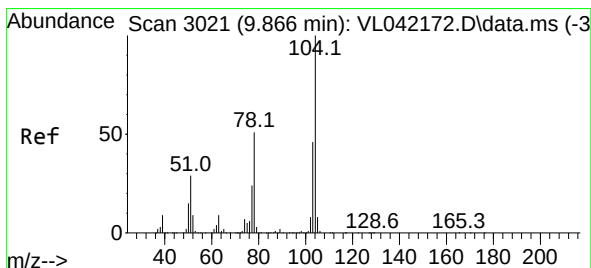
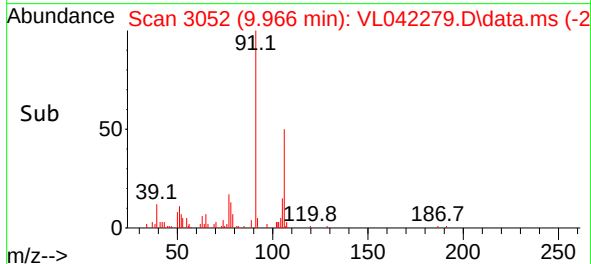
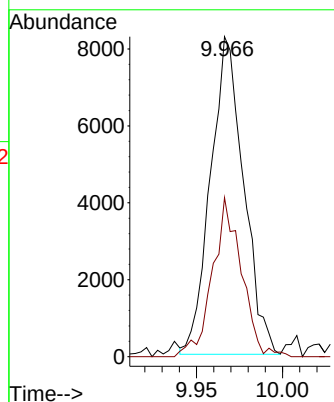
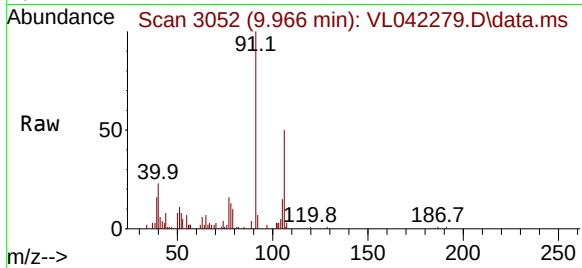




#60
o-Xylene
Concen: 0.207 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.007 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

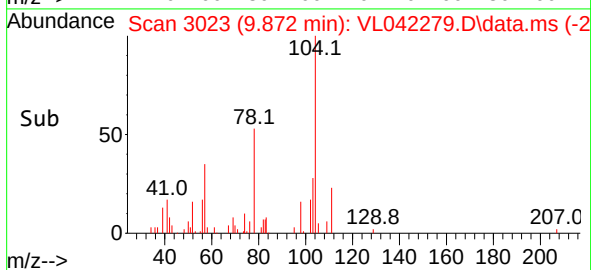
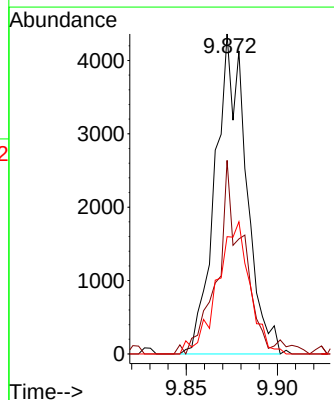
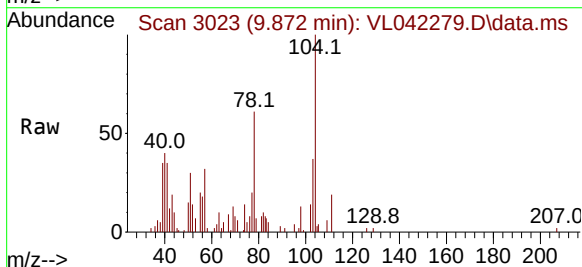
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025

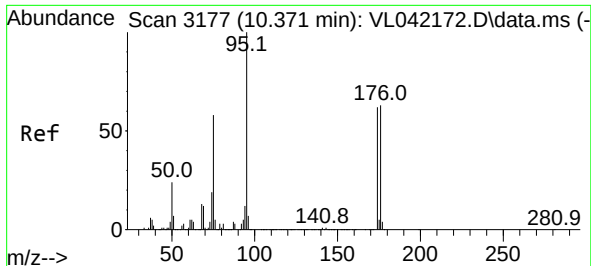
Tgt Ion: 91 Resp: 11082
Ion Ratio Lower Upper
91 100
106 43.9 20.8 62.5



#61
Styrene
Concen: 0.194 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.007 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

Tgt Ion: 104 Resp: 5155
Ion Ratio Lower Upper
104 100
78 53.3 41.8 62.6
103 43.2 37.0 55.4

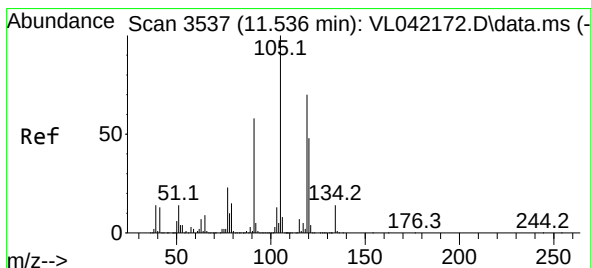
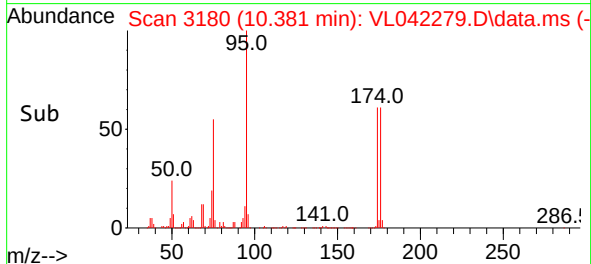
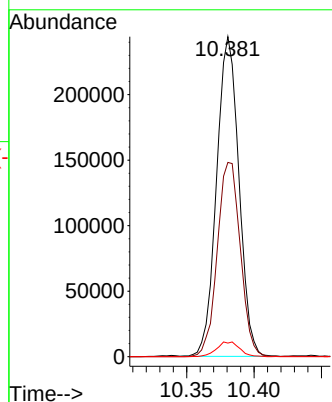
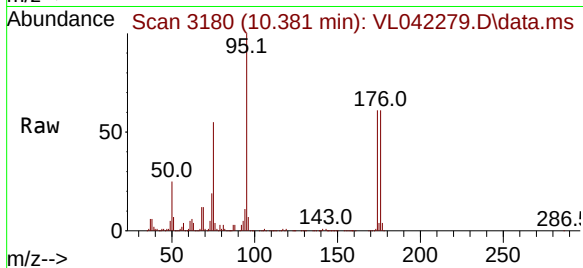




#68
1-Bromo-4-Fluorobenzene
Concen: 9.096 ppbv
RT: 10.381 min Scan# 3177
Delta R.T. 0.010 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

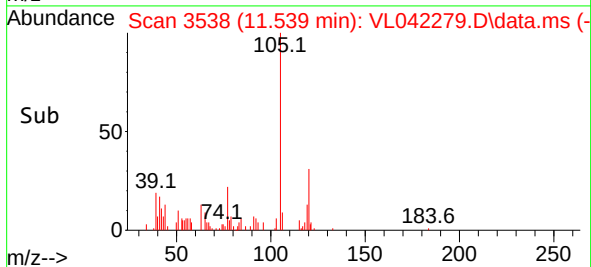
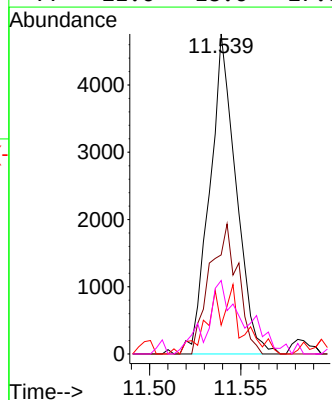
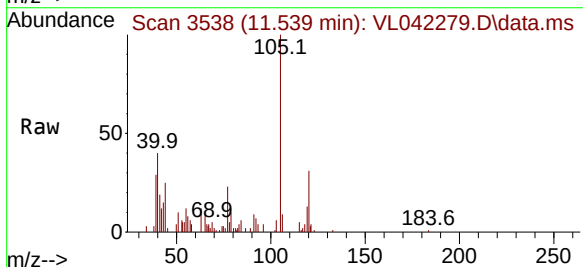
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025

Tgt Ion: 95 Resp: 281576
Ion Ratio Lower Upper
95 100
174 62.8 50.6 76.0
175 4.8 3.8 5.6



#74
1,2,4-Trimethylbenzene
Concen: 0.071 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

Tgt Ion: 105 Resp: 4779
Ion Ratio Lower Upper
105 100
120 34.4 38.6 58.0#
91 9.0 46.2 69.2#
77 21.6 18.6 27.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042280.D
 Acq On : 09 Apr 2025 01:18
 Operator : SY/MD
 Sample : Q1728-04DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-7-04022025DL

Quant Time: Apr 09 05:21:09 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

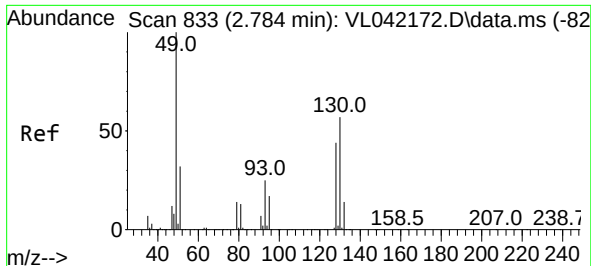
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.794	49	147116	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	371349	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.888	117	326259	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	246947	9.217	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.200%
Target Compounds						
					Qvalue	
4) Chloromethane	1.531	50	300	0.034	ppbv	90
9) Propene	1.486	41	1659	0.163	ppbv #	56
13) Ethanol	1.725	45	3767	3.918	ppbv	96
15) Acetone	1.839	43	159209	7.738	ppbv	96
16) 1,3-Butadiene	1.602	39	1532	0.152	ppbv #	25
17) tert-Butyl alcohol	2.049	59	2015	0.079	ppbv #	84
19) Isopropyl Alcohol	1.891	45	4361	0.376	ppbv #	1
20) Methylene Chloride	2.065	84	2085	0.272	ppbv #	81
23) Vinyl Acetate	2.480	43	1804	0.203	ppbv #	73
27) Carbon Disulfide	2.153	76	5281	0.239	ppbv #	1
34) 2-Butanone	2.564	43	9672	0.359	ppbv	99
36) Benzene	3.664	78	3306	0.090	ppbv	97
39) 1,2-Dichloropropane	3.965	63	95985	7.159	ppbv #	24
53) Toluene	6.949	91	3484	0.080	ppbv #	20

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

Quant Time: Apr 09 05:21:09 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

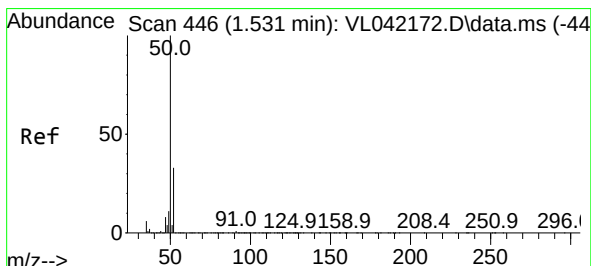
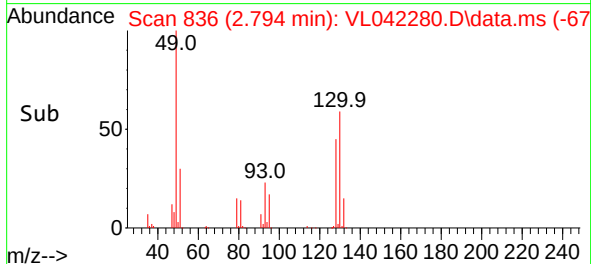
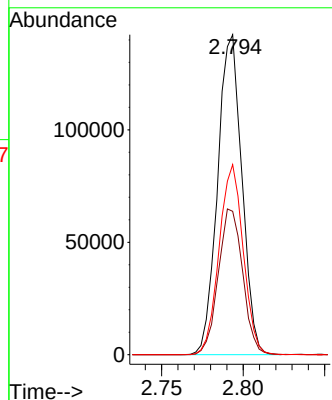
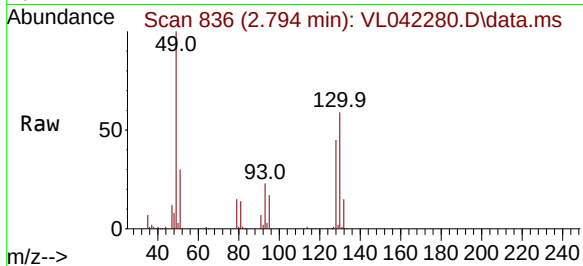




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 833
Delta R.T. 0.010 min
Lab File: VL042280.D
Acq: 09 Apr 2025 01:18

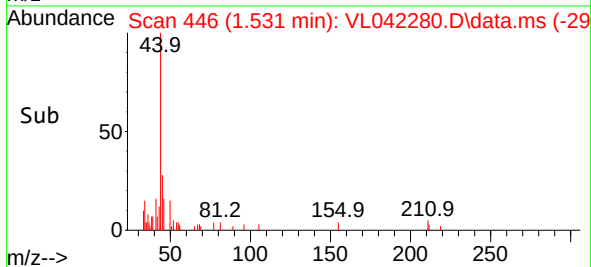
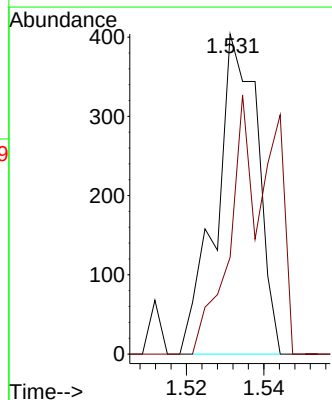
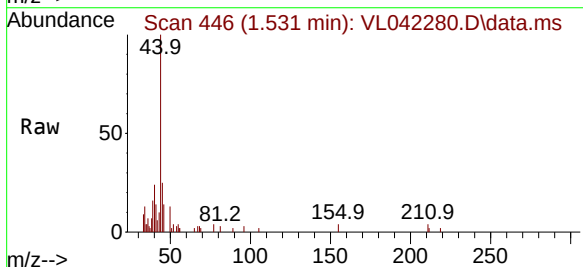
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025DL

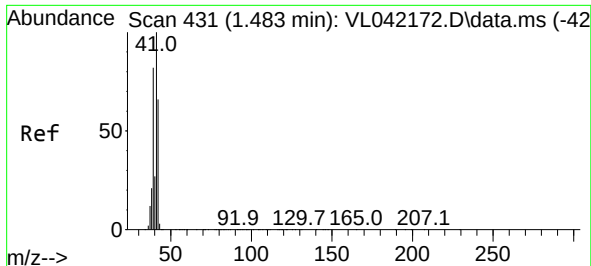
Tgt Ion: 49 Resp: 147116
Ion Ratio Lower Upper
49 100
128 45.8 22.9 68.5
130 59.1 28.8 86.4



#4
Chloromethane
Concen: 0.034 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042280.D
Acq: 09 Apr 2025 01:18

Tgt Ion: 50 Resp: 300
Ion Ratio Lower Upper
50 100
52 26.8 26.1 39.1





#9

Propene

Concen: 0.163 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042280.D

Acq: 09 Apr 2025 01:18

Instrument :

MSVOA_L

ClientSampleId :

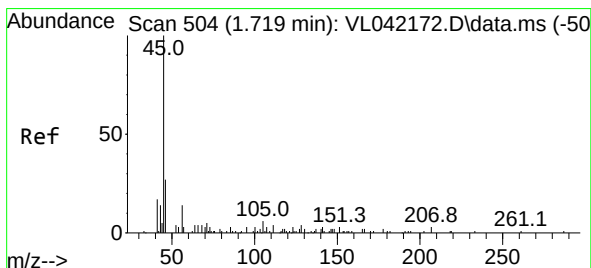
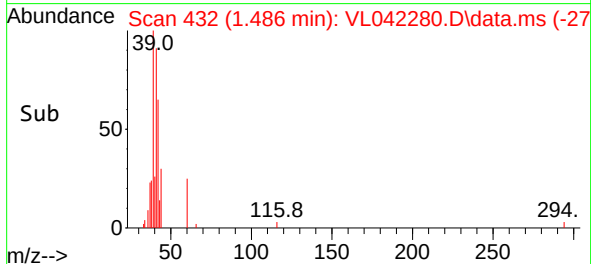
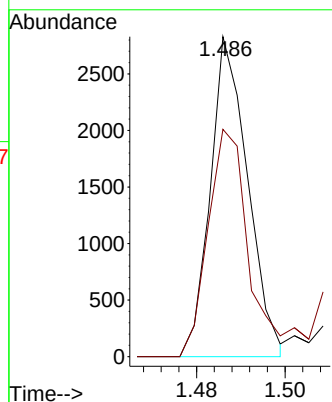
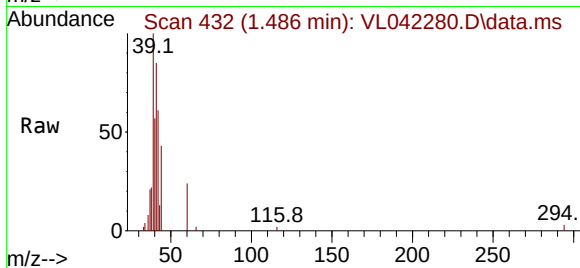
SSSG-B2-7-04022025DL

Tgt Ion: 41 Resp: 1659

Ion Ratio Lower Upper

41 100

42 105.3 55.4 83.2#



#13

Ethanol

Concen: 3.918 ppbv

RT: 1.725 min Scan# 506

Delta R.T. 0.006 min

Lab File: VL042280.D

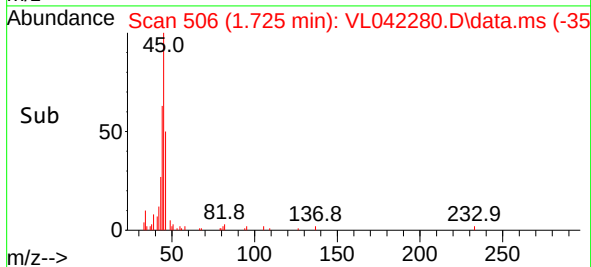
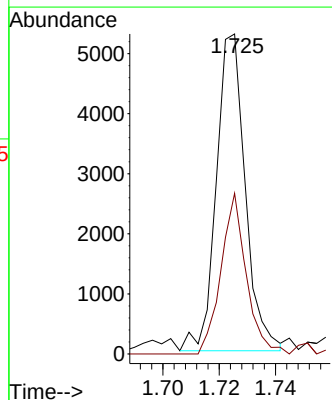
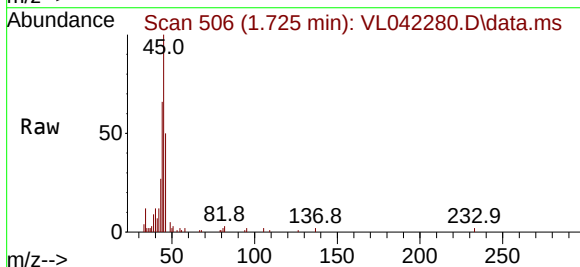
Acq: 09 Apr 2025 01:18

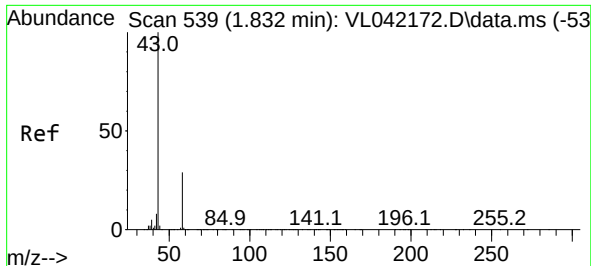
Tgt Ion: 45 Resp: 3767

Ion Ratio Lower Upper

45 100

46 47.5 20.2 80.8





#15

Acetone

Concen: 7.738 ppbv

RT: 1.839 min Scan# 541

Delta R.T. 0.006 min

Lab File: VL042280.D

Acq: 09 Apr 2025 01:18

Instrument :

MSVOA_L

ClientSampleId :

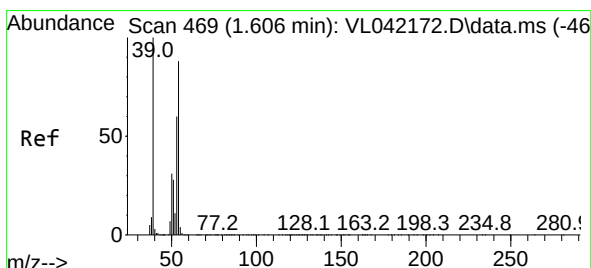
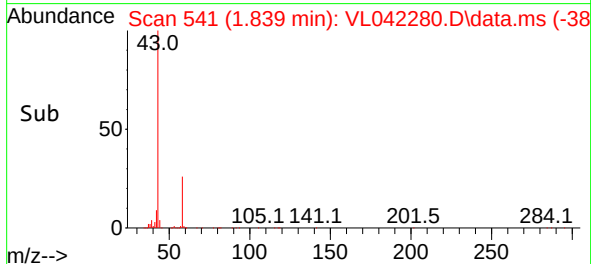
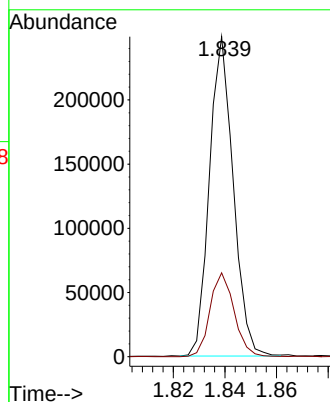
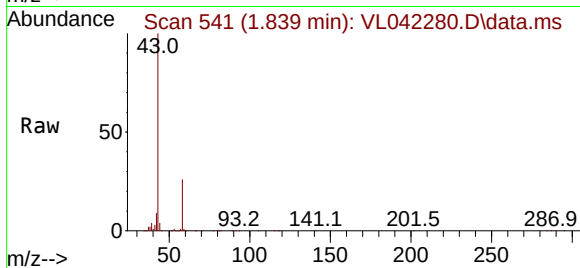
SSSG-B2-7-04022025DL

Tgt Ion: 43 Resp: 159209

Ion Ratio Lower Upper

43 100

58 26.9 23.2 34.8



#16

1,3-Butadiene

Concen: 0.152 ppbv

RT: 1.602 min Scan# 468

Delta R.T. -0.003 min

Lab File: VL042280.D

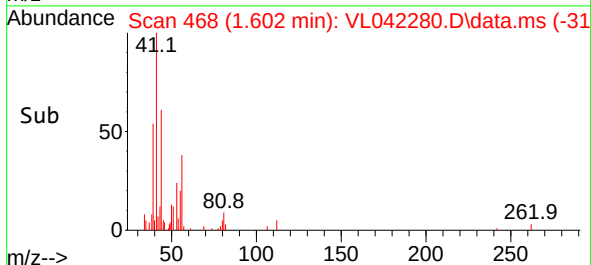
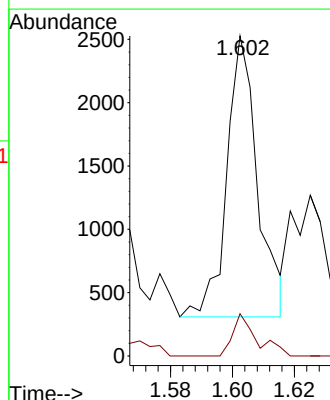
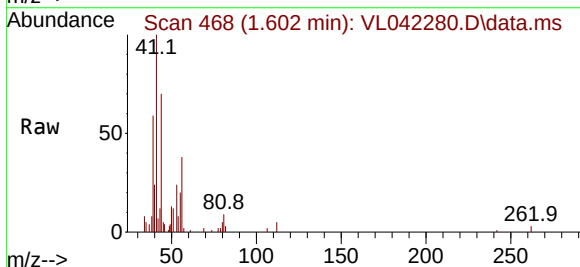
Acq: 09 Apr 2025 01:18

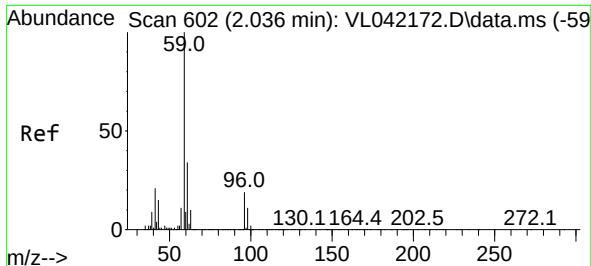
Tgt Ion: 39 Resp: 1532

Ion Ratio Lower Upper

39 100

54 11.6 60.7 91.1#





#17

tert-Butyl alcohol

Concen: 0.079 ppbv

RT: 2.049 min Scan# 602

Delta R.T. 0.013 min

Lab File: VL042280.D

Acq: 09 Apr 2025 01:18

Instrument :

MSVOA_L

ClientSampleId :

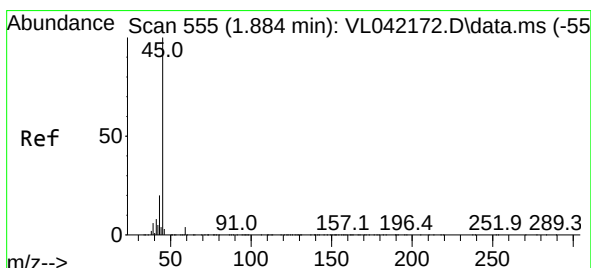
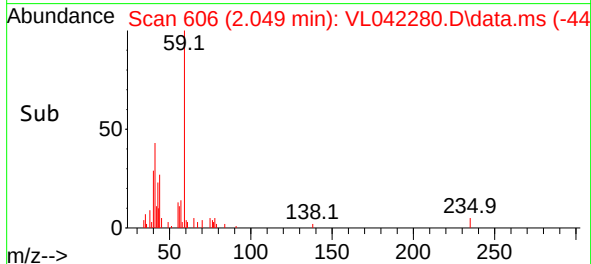
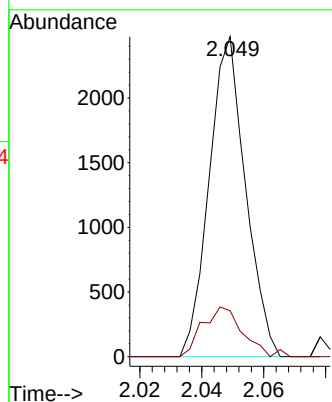
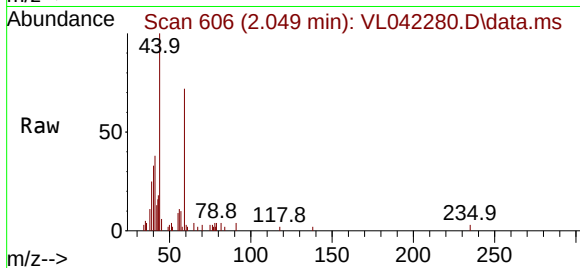
SSSG-B2-7-04022025DL

Tgt Ion: 59 Resp: 2015

Ion Ratio Lower Upper

59 100

57 17.3 8.9 13.3#



#19

Isopropyl Alcohol

Concen: 0.376 ppbv

RT: 1.891 min Scan# 557

Delta R.T. 0.006 min

Lab File: VL042280.D

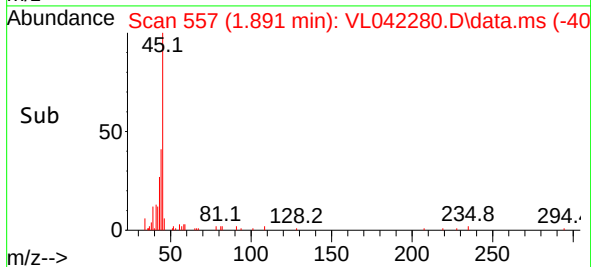
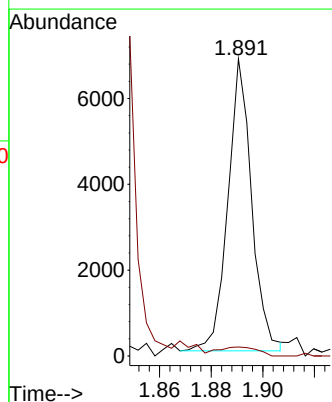
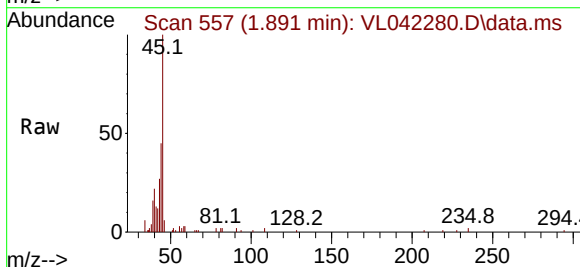
Acq: 09 Apr 2025 01:18

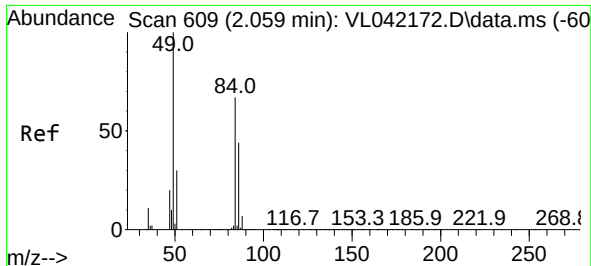
Tgt Ion: 45 Resp: 4361

Ion Ratio Lower Upper

45 100

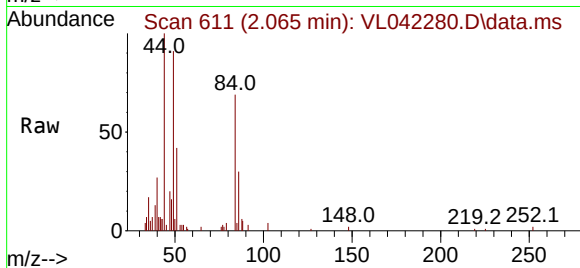
58 984.2 36.9 55.3#



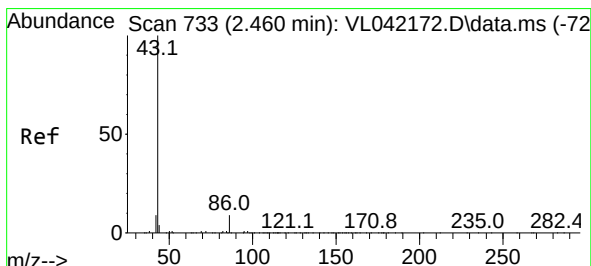
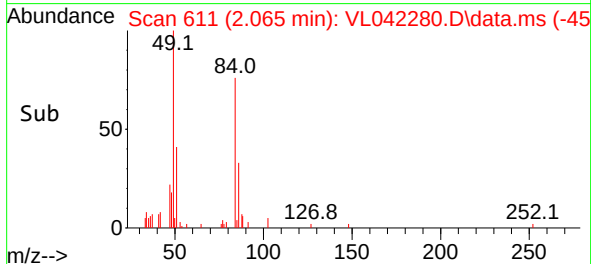
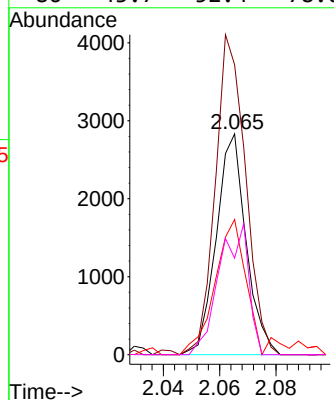


#20
Methylene Chloride
Concen: 0.272 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042280.D
Acq: 09 Apr 2025 01:18

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025DL

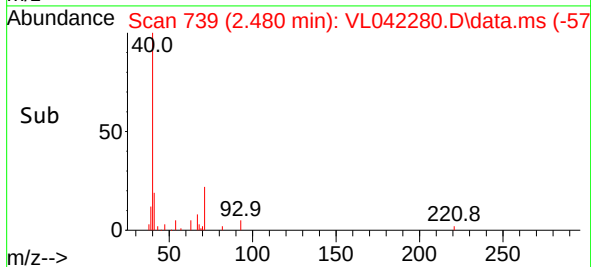
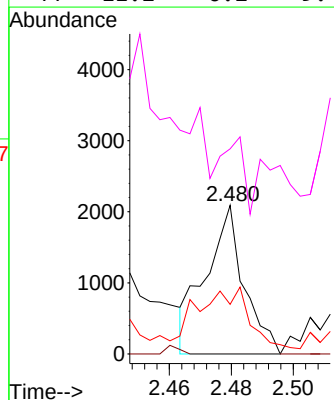
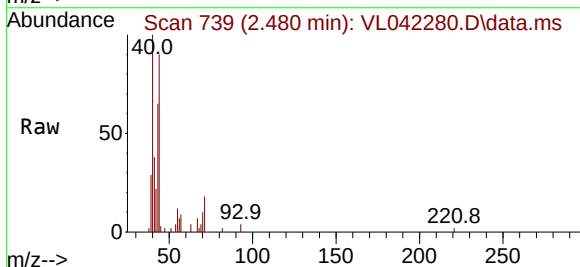


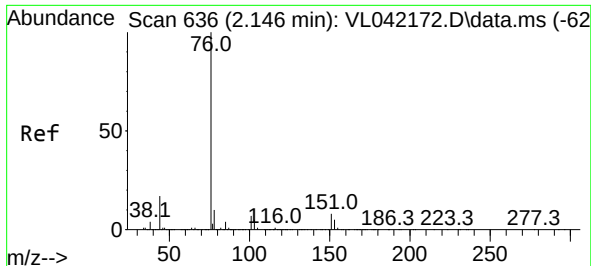
Tgt Ion: 84	Resp: 2085
Ion Ratio	Lower Upper
84 100	
49 131.3	120.2 180.4
51 61.2	37.4 56.0#
86 43.7	52.4 78.6#



#23
Vinyl Acetate
Concen: 0.203 ppbv
RT: 2.480 min Scan# 739
Delta R.T. 0.019 min
Lab File: VL042280.D
Acq: 09 Apr 2025 01:18

Tgt	Ion: 43	Resp:	1804
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.5	8.3#
42	27.1	8.6	13.0#
44	11.2	6.2	9.4#





#27

Carbon Disulfide

Concen: 0.239 ppbv

RT: 2.153 min Scan# 61

Delta R.T. 0.006 min

Lab File: VL042280.D

Acq: 09 Apr 2025 01:18

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-7-04022025DL

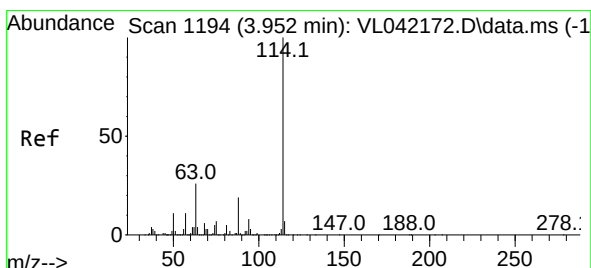
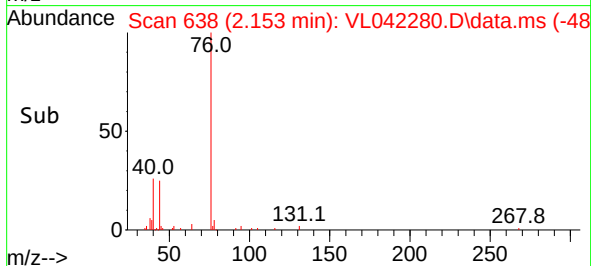
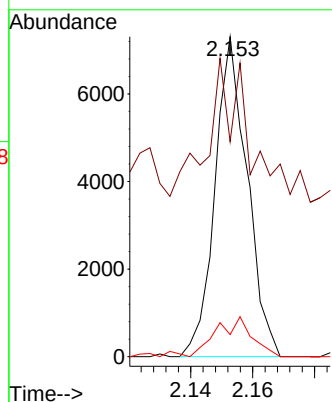
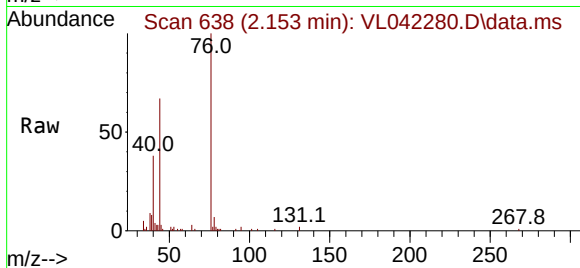
Tgt Ion: 76 Resp: 5281

Ion Ratio Lower Upper

76 100

44 98.4 14.7 22.1#

78 14.8 9.3 13.9#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. 0.016 min

Lab File: VL042280.D

Acq: 09 Apr 2025 01:18

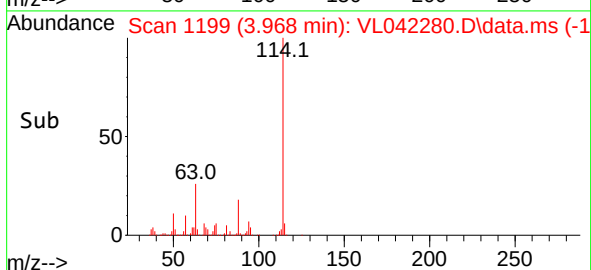
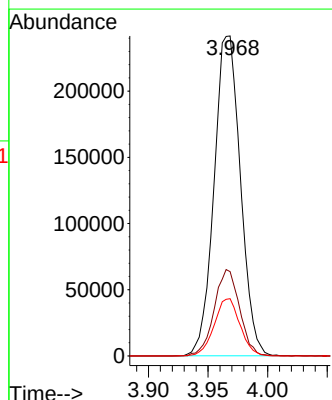
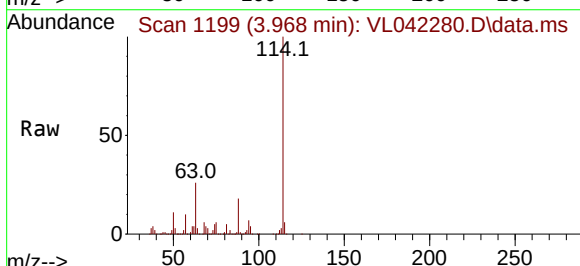
Tgt Ion: 114 Resp: 371349

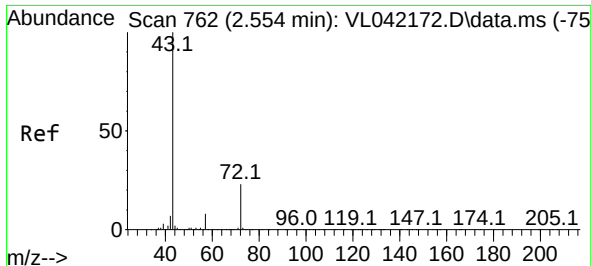
Ion Ratio Lower Upper

114 100

63 26.1 20.7 31.1

88 17.6 15.0 22.4

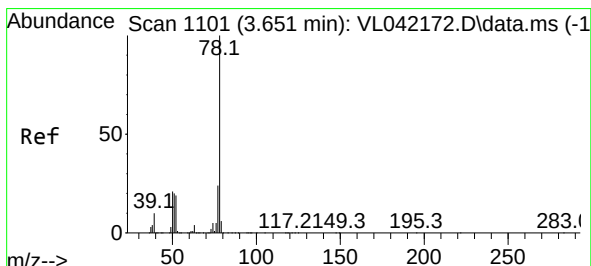
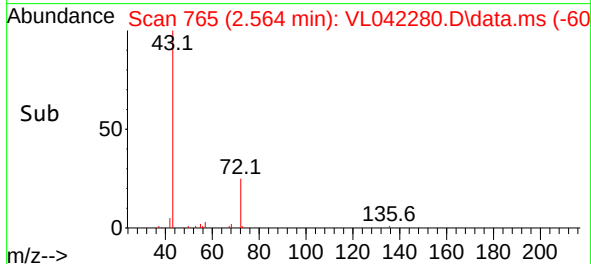
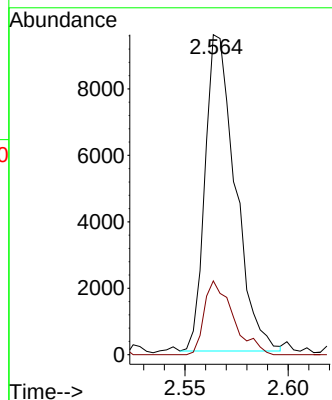
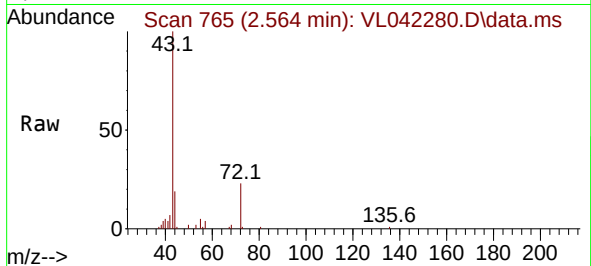




#34
2-Butanone
Concen: 0.359 ppbv
RT: 2.564 min Scan# 710
Delta R.T. 0.010 min
Lab File: VL042280.D
Acq: 09 Apr 2025 01:18

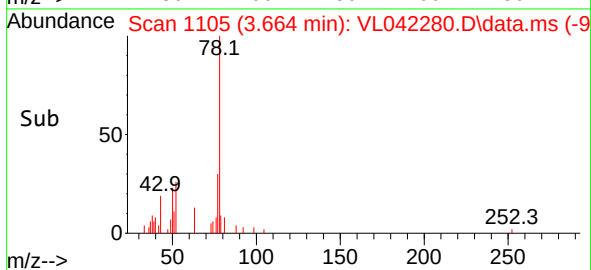
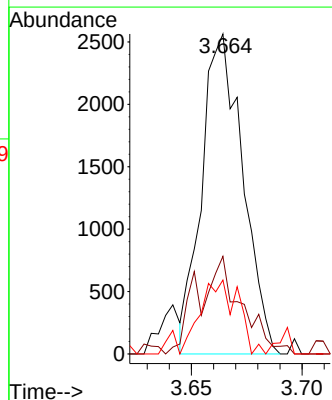
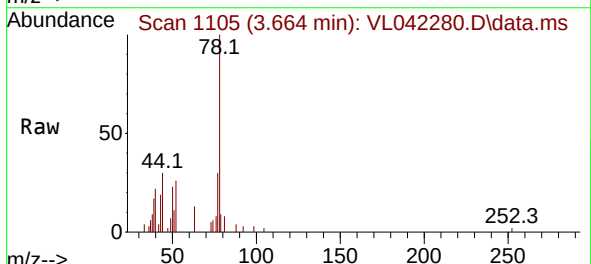
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025DL

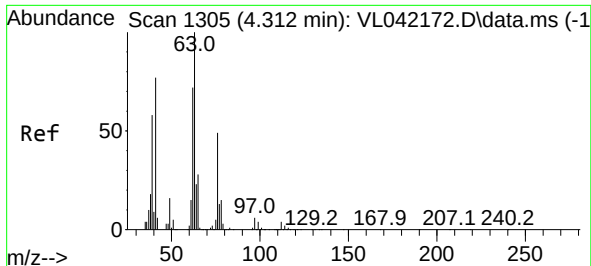
Tgt Ion: 43 Resp: 9672
Ion Ratio Lower Upper
43 100
72 22.4 18.2 27.2



#36
Benzene
Concen: 0.090 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.013 min
Lab File: VL042280.D
Acq: 09 Apr 2025 01:18

Tgt Ion: 78 Resp: 3306
Ion Ratio Lower Upper
78 100
77 25.8 19.1 28.7
50 21.2 16.6 24.8





#39

1,2-Dichloropropane

Concen: 7.159 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. -0.346 min

Lab File: VL042280.D

Acq: 09 Apr 2025 01:18

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-7-04022025DL

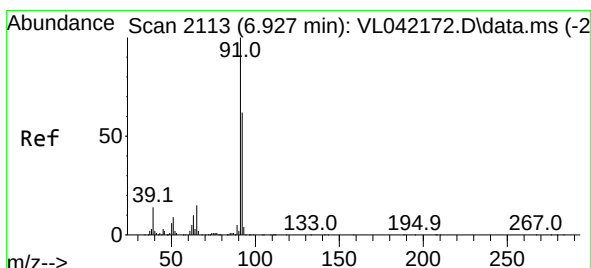
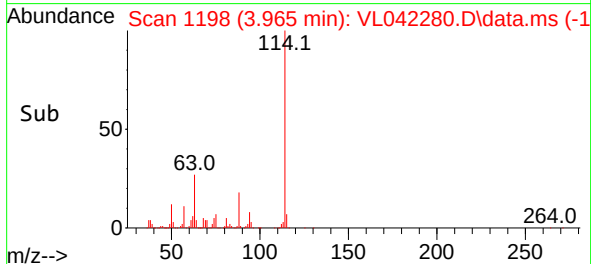
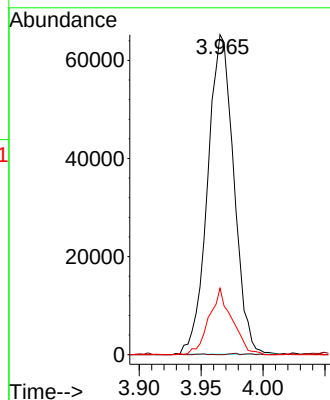
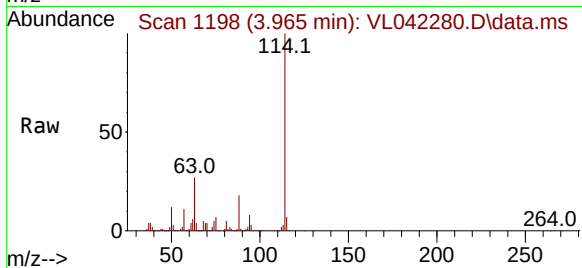
Tgt Ion: 63 Resp: 95985

Ion Ratio Lower Upper

63 100

41 0.0 61.7 92.5#

62 20.8 57.6 86.4#



#53

Toluene

Concen: 0.080 ppbv

RT: 6.949 min Scan# 2120

Delta R.T. 0.023 min

Lab File: VL042280.D

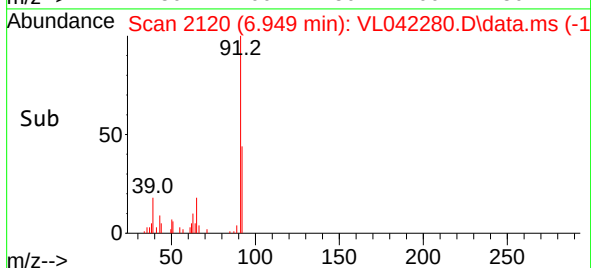
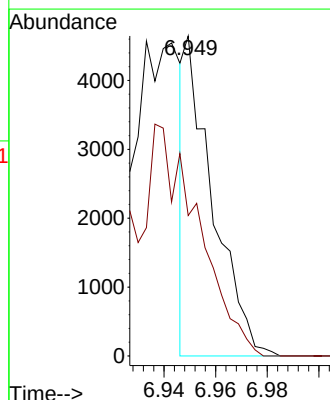
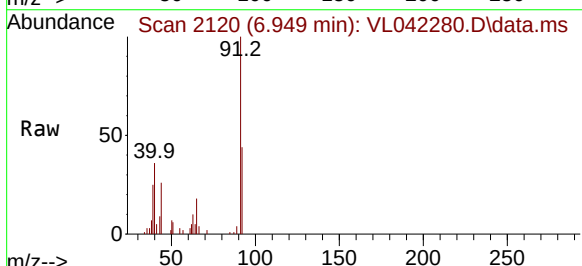
Acq: 09 Apr 2025 01:18

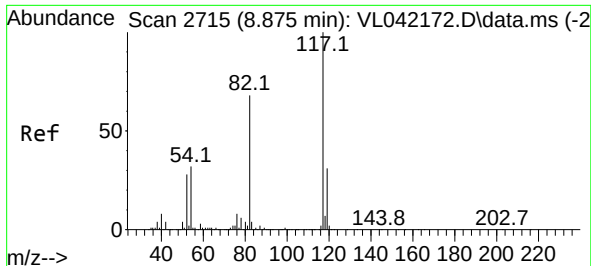
Tgt Ion: 91 Resp: 3484

Ion Ratio Lower Upper

91 100

92 0.0 48.4 72.6#

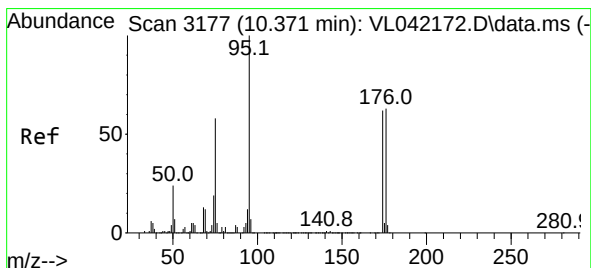
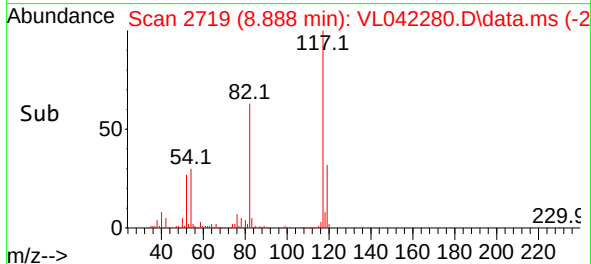
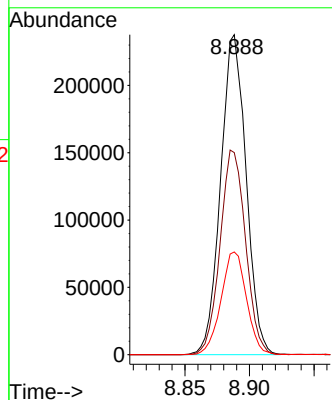
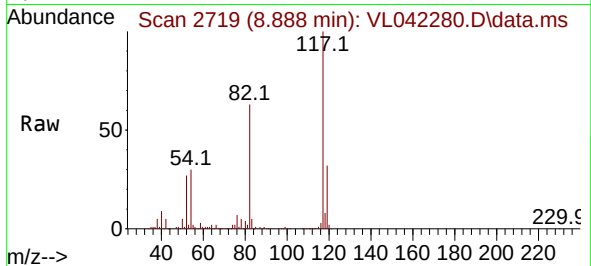




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042280.D
Acq: 09 Apr 2025 01:18

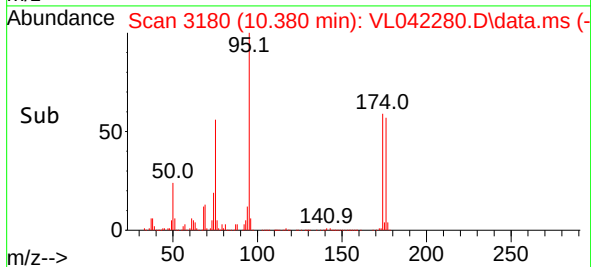
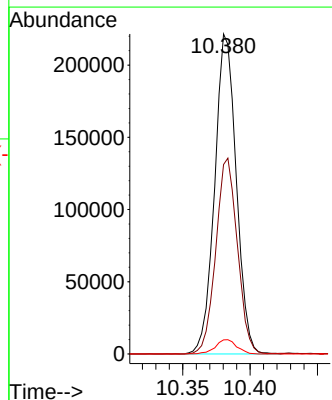
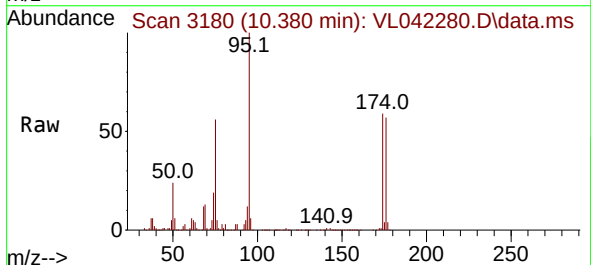
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025DL

Tgt Ion: 117 Resp: 326259
Ion Ratio Lower Upper
117 100
82 64.1 55.8 83.6
119 32.2 25.5 38.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.217 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.010 min
Lab File: VL042280.D
Acq: 09 Apr 2025 01:18

Tgt Ion: 95 Resp: 246947
Ion Ratio Lower Upper
95 100
174 61.5 50.6 76.0
175 4.4 3.8 5.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042281.D
 Acq On : 09 Apr 2025 01:49
 Operator : SY/MD
 Sample : Q1728-05 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-6-04022025

Quant Time: Apr 09 05:21:35 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	153705	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.958	114	388271	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	381682	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	292407	9.329	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.300%

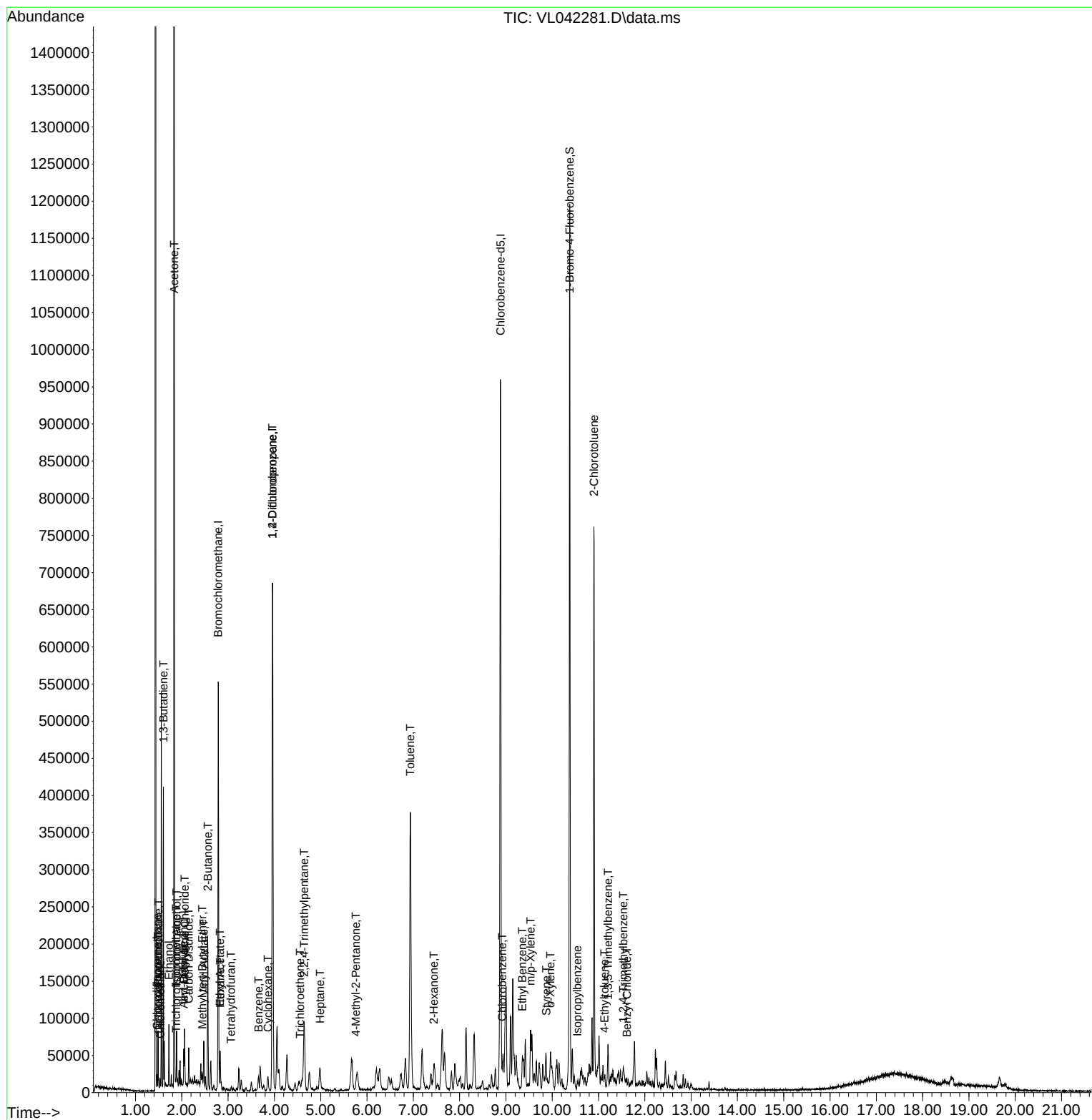
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	3000	0.132	ppbv	89
3) Chlorodifluoromethane	1.466	51	7563	0.326	ppbv #	70
4) Chloromethane	1.534	50	1372	0.148	ppbv #	85
9) Propene	1.486	41	9825	0.925	ppbv #	15
10) Heptane	4.985	43	10112	0.358	ppbv	89
11) Trichlorofluoromethane	1.877	101	1232	0.056	ppbv	99
13) Ethanol	1.722	45	27425	27.301	ppbv	84
15) Acetone	1.835	43	1817333	84.541	ppbv #	87
16) 1,3-Butadiene	1.602	39	40330	3.842	ppbv #	20
17) tert-Butyl alcohol	2.042	59	18264	0.682	ppbv	95
19) Isopropyl Alcohol	1.887	45	26127	2.154	ppbv #	30
20) Methylene Chloride	2.062	84	10120	1.264	ppbv #	81
21) Allyl Chloride	2.046	41	6513	0.430	ppbv #	1
23) Vinyl Acetate	2.476	43	16870	1.813	ppbv #	42
25) Ethyl Acetate	2.826	43	8240	0.148	ppbv #	88
26) Hexane	2.829	57	9763	0.453	ppbv #	32
27) Carbon Disulfide	2.149	76	27478	1.189	ppbv #	83
28) Methyl tert-Butyl Ether	2.444	73	880	0.066	ppbv #	1
30) Cyclohexane	3.858	84	3921	0.210	ppbv #	82
34) 2-Butanone	2.560	43	128691	4.571	ppbv	95
36) Benzene	3.658	78	11702	0.304	ppbv #	93
38) Trichloroethene	4.554	130	557	0.035	ppbv #	13
39) 1,2-Dichloropropane	3.958	63	100762	7.188	ppbv #	23
41) Tetrahydrofuran	3.062	42	649	0.040	ppbv #	37
44) 2,2,4-Trimethylpentane	4.641	57	71853	1.105	ppbv #	79
50) 4-Methyl-2-Pentanone	5.761	43	1868	0.042	ppbv #	39
51) 2-Hexanone	7.441	43	8163	0.223	ppbv #	100
53) Toluene	6.933	91	261772	5.737	ppbv	98
57) Chlorobenzene	8.920	112	6785	0.187	ppbv #	95
58) Ethyl Benzene	9.354	91	19066	0.281	ppbv	93
59) m/p-Xylene	9.532	91	46011	0.850	ppbv	98
60) o-Xylene	9.962	91	20160	0.371	ppbv	99
61) Styrene	9.872	104	4043	0.151	ppbv #	90
62) Isopropylbenzene	10.542	105	3207	0.040	ppbv	98
66) Benzyl Chloride	11.613	91	256	0.032	ppbv #	66
71) 2-Chlorotoluene	10.904	91	267528	4.247	ppbv	98
72) 4-Ethyltoluene	11.128	105	2757	0.041	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.205	105	3106	0.053	ppbv	87
74) 1,2,4-Trimethylbenzene	11.535	105	7115	0.105	ppbv #	66

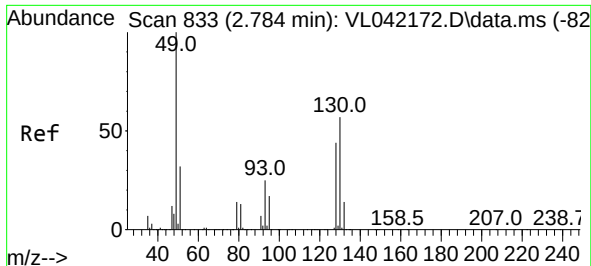
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042281.D
Acq On : 09 Apr 2025 01:49
Operator : SY/MD
Sample : Q1728-05 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025

Quant Time: Apr 09 05:21:35 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

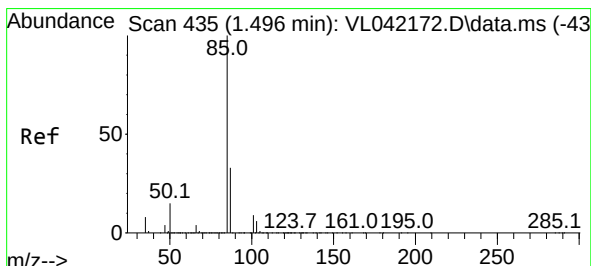
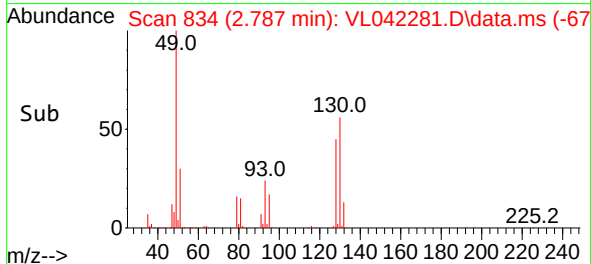
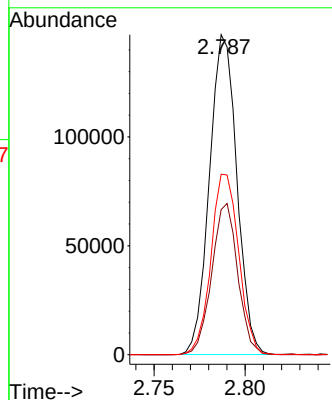
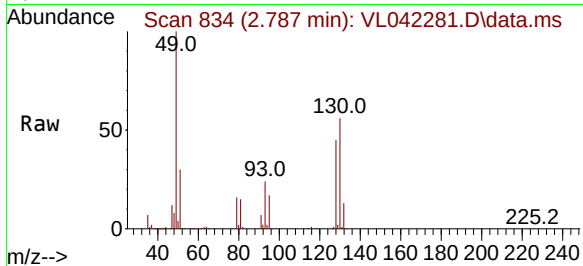




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL042281.D
 Acq: 09 Apr 2025 01:49

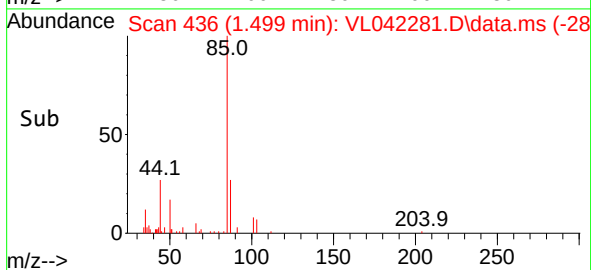
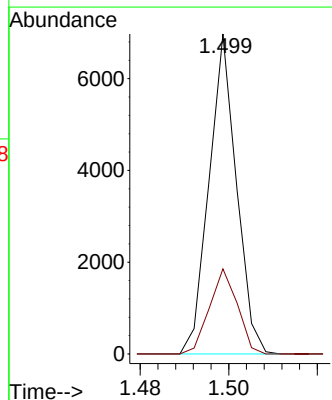
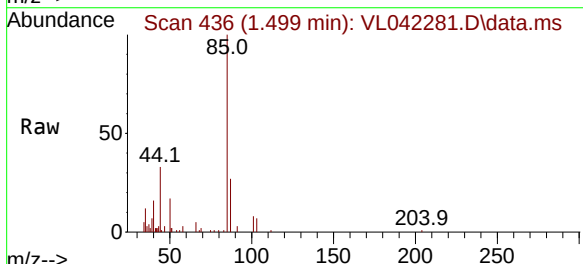
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-6-04022025

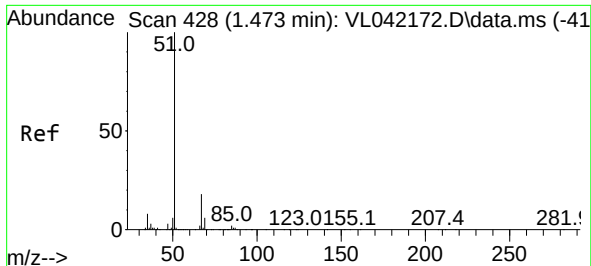
Tgt Ion: 49 Resp: 153705
 Ion Ratio Lower Upper
 49 100
 128 44.9 22.9 68.5
 130 57.1 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 0.132 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.003 min
 Lab File: VL042281.D
 Acq: 09 Apr 2025 01:49

Tgt Ion: 85 Resp: 3000
 Ion Ratio Lower Upper
 85 100
 87 26.6 26.1 39.1

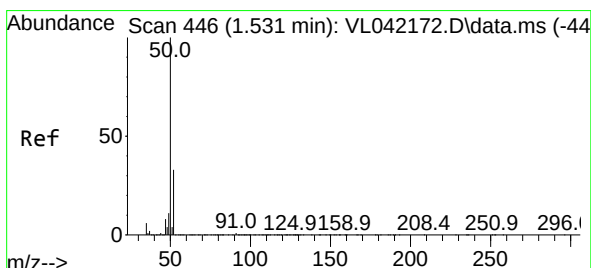
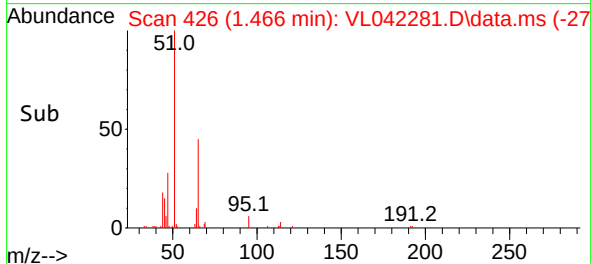
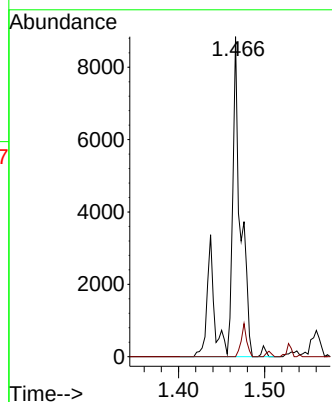
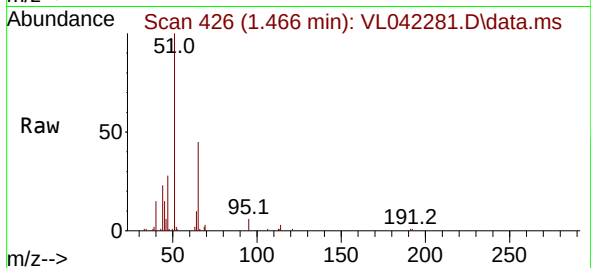




#3
Chlorodifluoromethane
Concen: 0.326 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.007 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

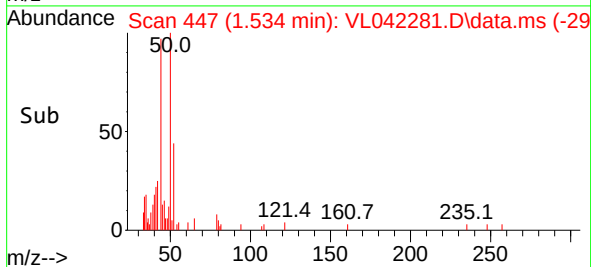
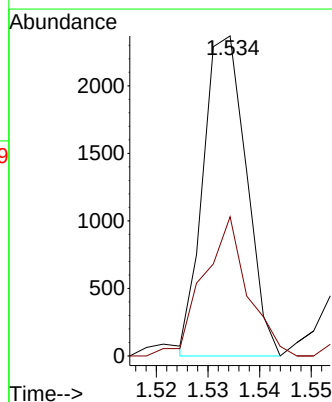
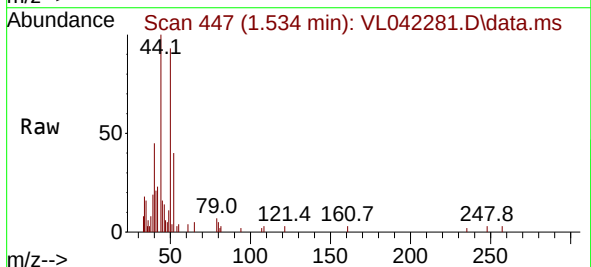
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B2-6-04022025

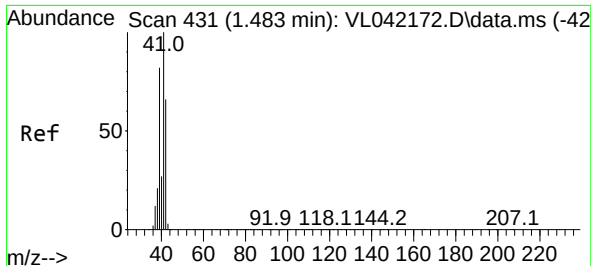
Tgt Ion: 51 Resp: 7563
Ion Ratio Lower Upper
51 100
67 5.4 15.0 22.6#



#4
Chloromethane
Concen: 0.148 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

Tgt Ion: 50 Resp: 1372
Ion Ratio Lower Upper
50 100
52 41.2 26.1 39.1#





#9

Propene

Concen: 0.925 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042281.D

Acq: 09 Apr 2025 01:49

Instrument :

MSVOA_L

ClientSampleId :

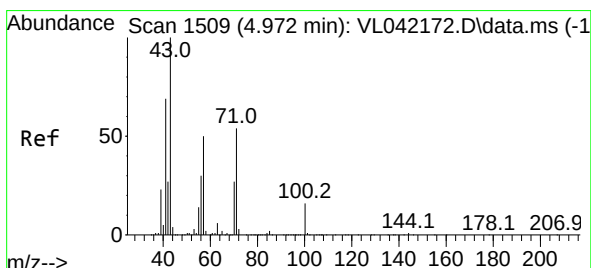
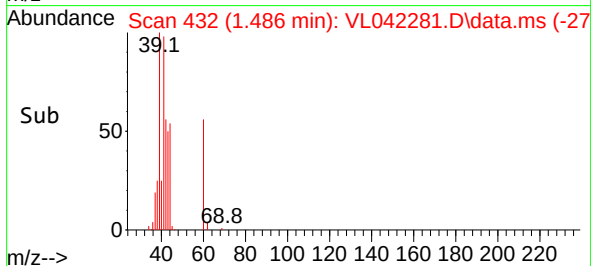
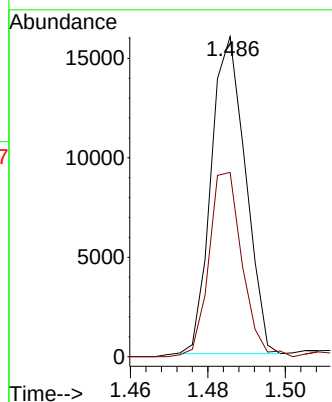
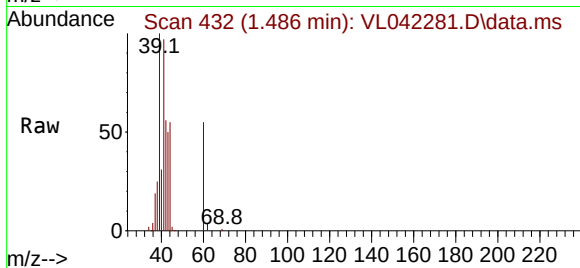
SSSG-B2-6-04022025

Tgt Ion: 41 Resp: 9825

Ion Ratio Lower Upper

41 100

42 0.0 55.4 83.2#



#10

Heptane

Concen: 0.358 ppbv

RT: 4.985 min Scan# 1513

Delta R.T. 0.013 min

Lab File: VL042281.D

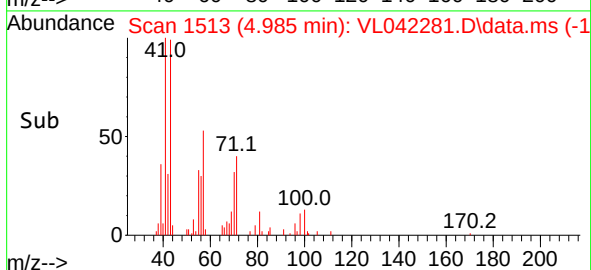
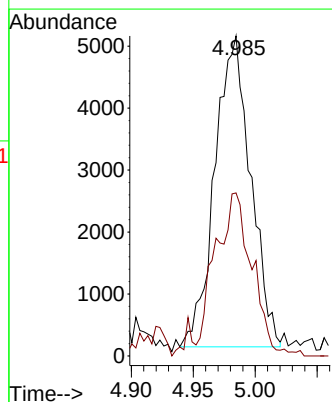
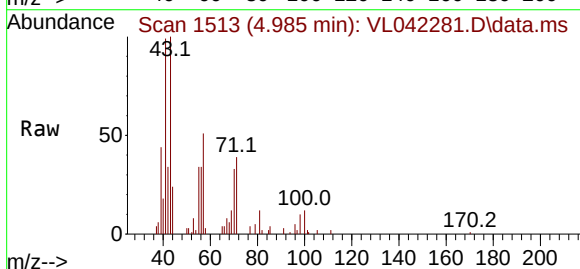
Acq: 09 Apr 2025 01:49

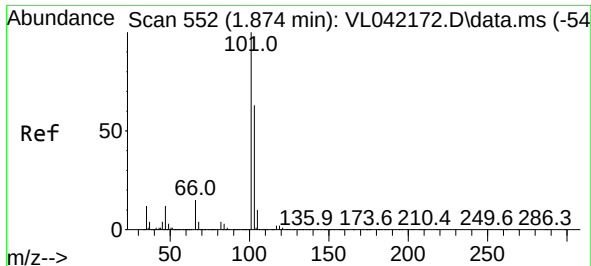
Tgt Ion: 43 Resp: 10112

Ion Ratio Lower Upper

43 100

57 56.7 39.4 59.2

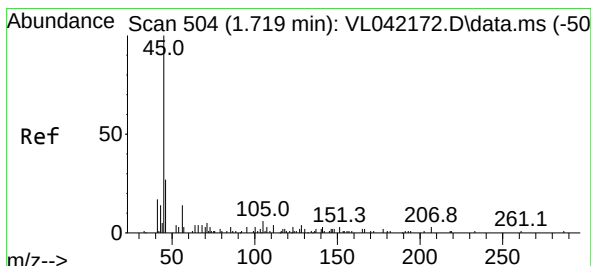
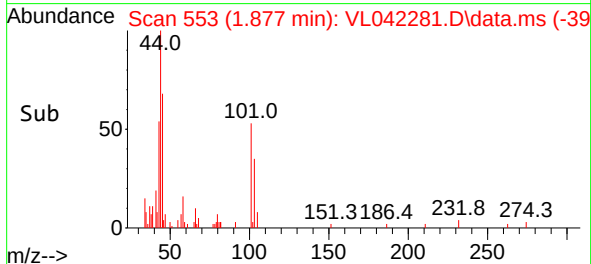
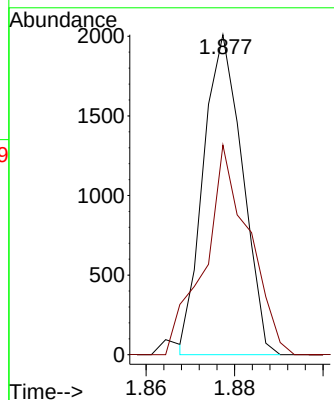
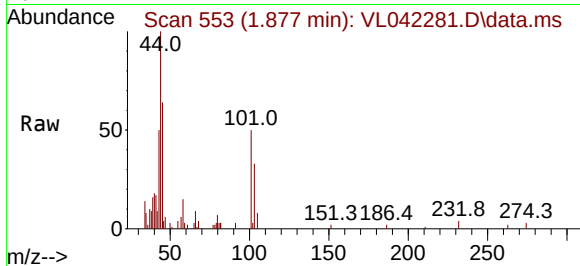




#11
 Trichlorofluoromethane
 Concen: 0.056 ppbv
 RT: 1.877 min Scan# 51
 Delta R.T. 0.003 min
 Lab File: VL042281.D
 Acq: 09 Apr 2025 01:49

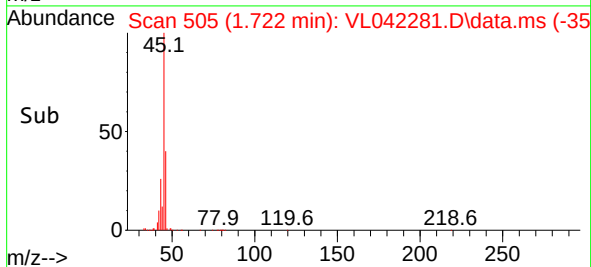
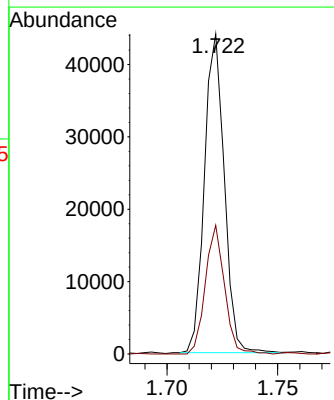
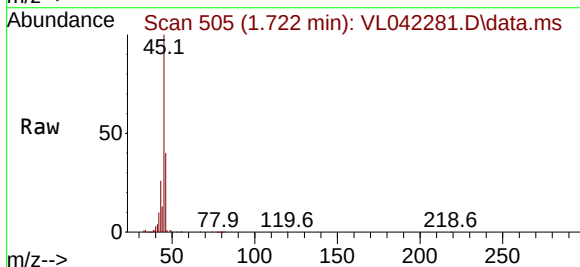
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-6-04022025

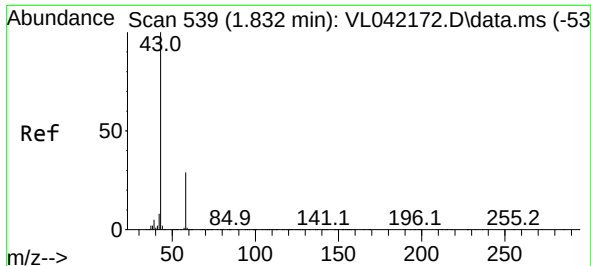
Tgt Ion:101 Resp: 1232
 Ion Ratio Lower Upper
 101 100
 103 61.7 50.2 75.2



#13
 Ethanol
 Concen: 27.301 ppbv
 RT: 1.722 min Scan# 505
 Delta R.T. 0.003 min
 Lab File: VL042281.D
 Acq: 09 Apr 2025 01:49

Tgt Ion: 45 Resp: 27425
 Ion Ratio Lower Upper
 45 100
 46 39.7 20.2 80.8





#15

Acetone

Concen: 84.541 ppbv

RT: 1.835 min Scan# 54

Delta R.T. 0.003 min

Lab File: VL042281.D

Acq: 09 Apr 2025 01:49

Instrument :

MSVOA_L

ClientSampleId :

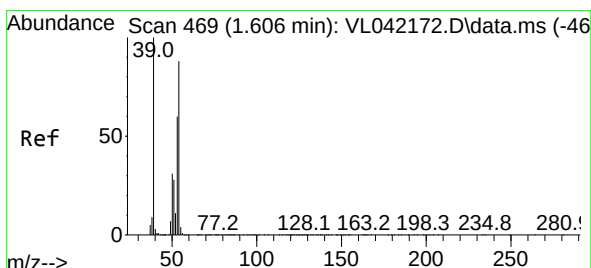
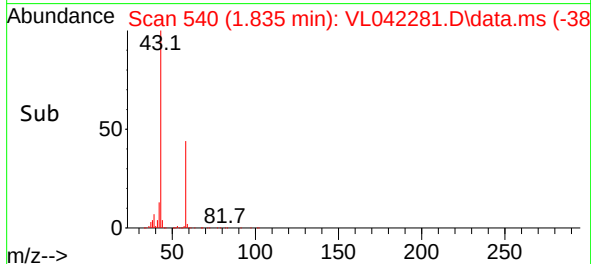
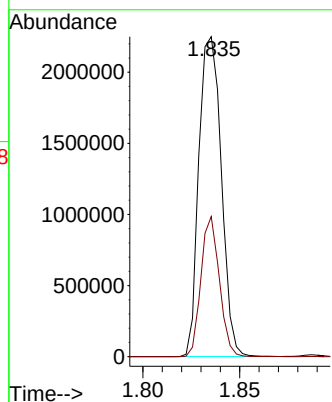
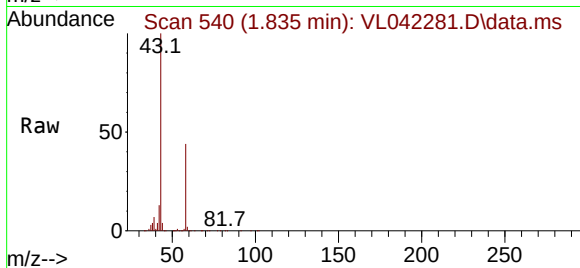
SSSG-B2-6-04022025

Tgt Ion: 43 Resp: 1817333

Ion Ratio Lower Upper

43 100

58 36.1 23.2 34.8#



#16

1,3-Butadiene

Concen: 3.842 ppbv

RT: 1.602 min Scan# 468

Delta R.T. -0.004 min

Lab File: VL042281.D

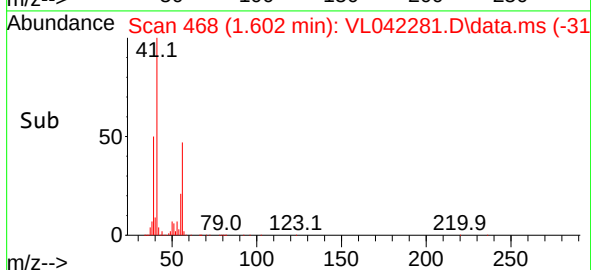
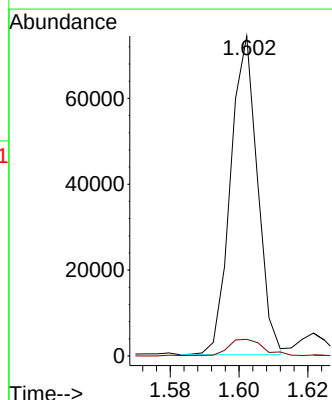
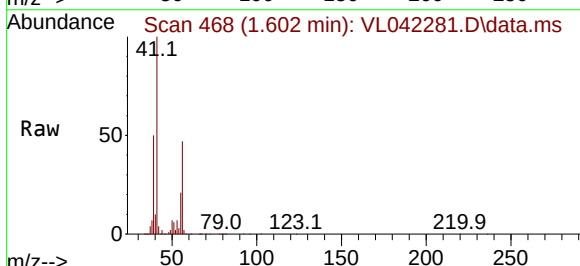
Acq: 09 Apr 2025 01:49

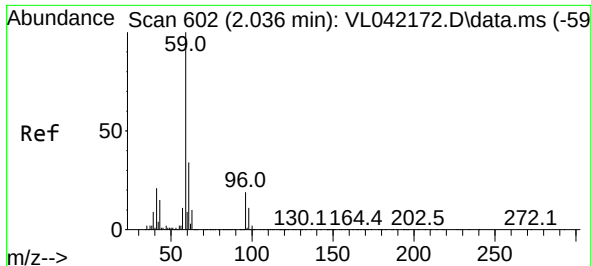
Tgt Ion: 39 Resp: 40330

Ion Ratio Lower Upper

39 100

54 7.3 60.7 91.1#





#17

tert-Butyl alcohol

Concen: 0.682 ppbv

RT: 2.042 min Scan# 602

Delta R.T. 0.006 min

Lab File: VL042281.D

Acq: 09 Apr 2025 01:49

Instrument :

MSVOA_1

ClientSampleId :

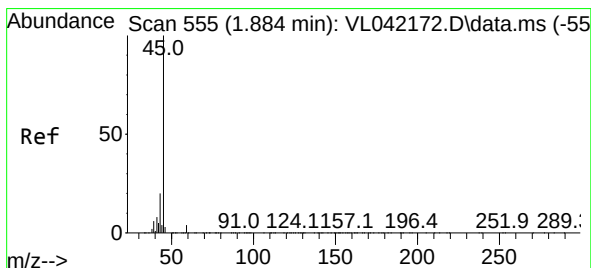
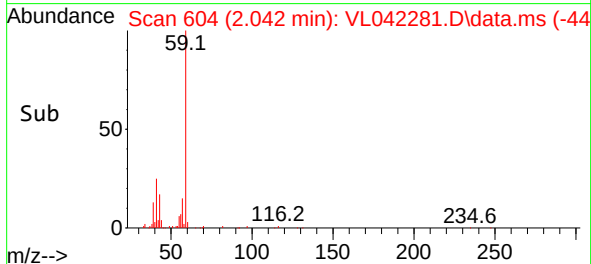
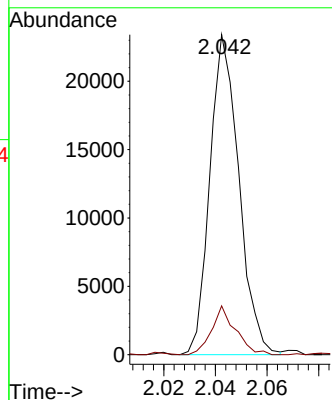
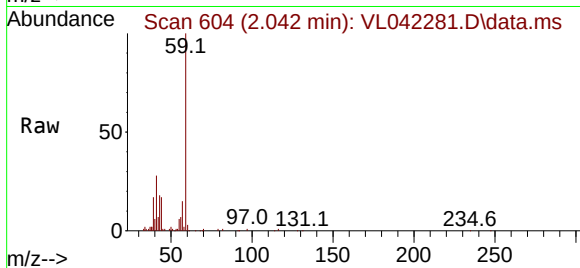
SSSG-B2-6-04022025

Tgt Ion: 59 Resp: 18264

Ion Ratio Lower Upper

59 100

57 13.0 8.9 13.3



#19

Isopropyl Alcohol

Concen: 2.154 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.003 min

Lab File: VL042281.D

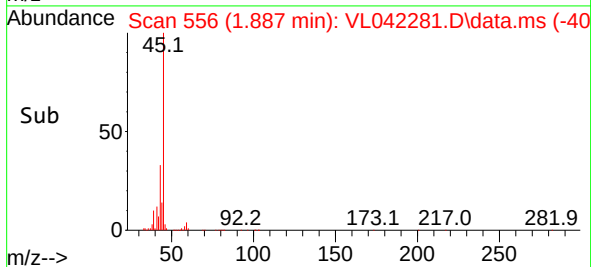
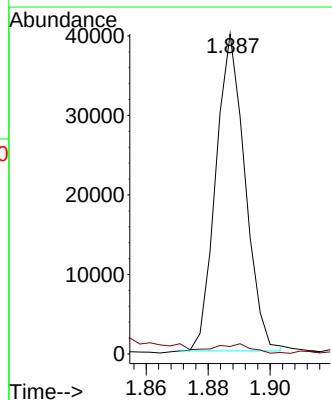
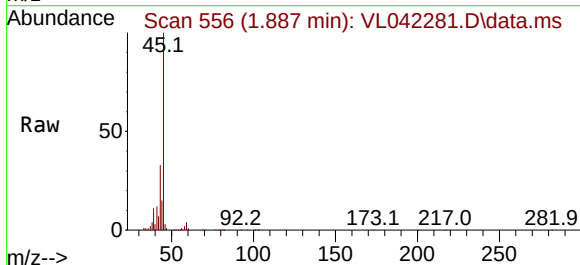
Acq: 09 Apr 2025 01:49

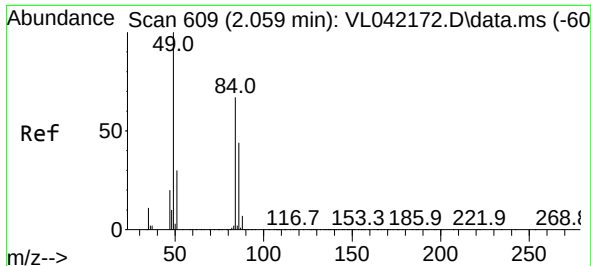
Tgt Ion: 45 Resp: 26127

Ion Ratio Lower Upper

45 100

58 0.0 36.9 55.3#

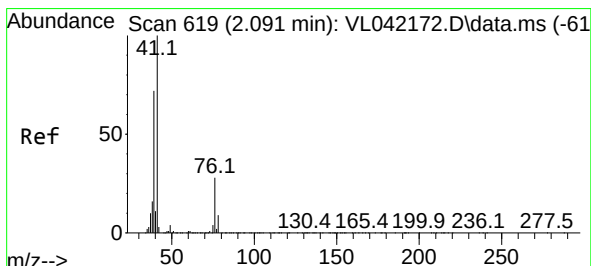
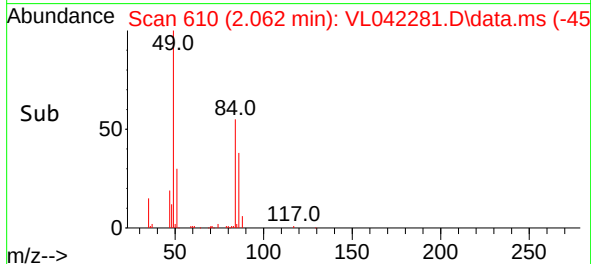
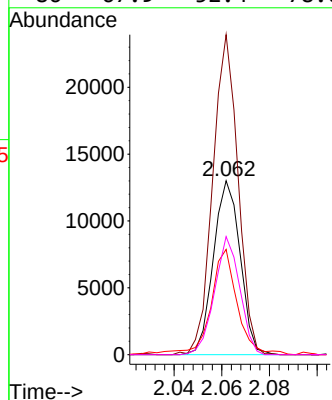
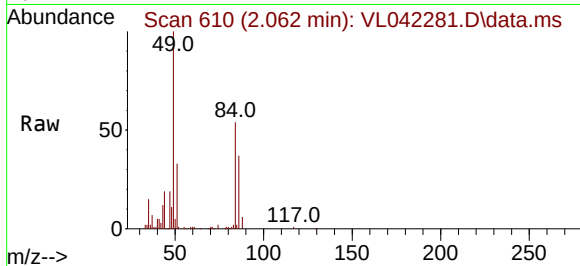




#20
Methylene Chloride
Concen: 1.264 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

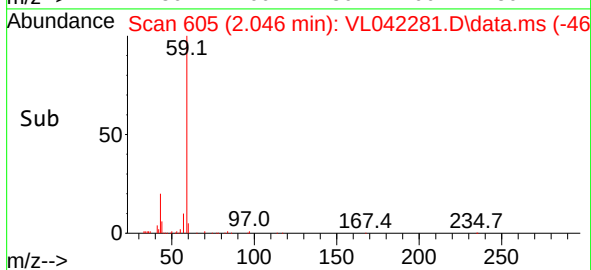
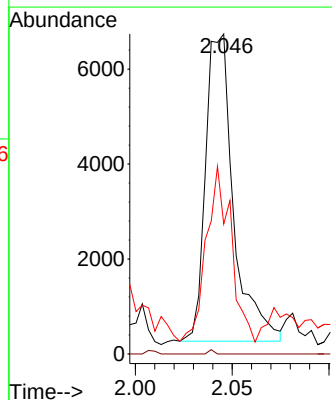
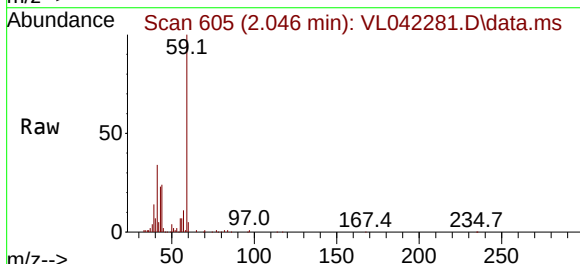
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025

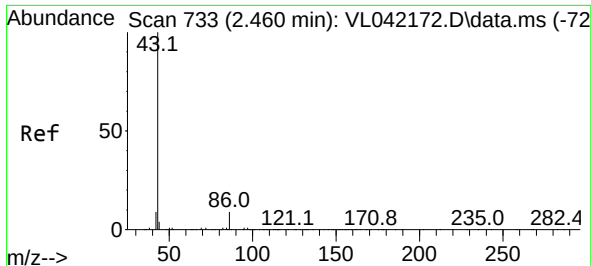
Tgt Ion:	84	Resp:	10120
Ion	Ratio	Lower	Upper
84	100		
49	184.0	120.2	180.4#
51	58.7	37.4	56.0#
86	67.9	52.4	78.6



#21
Allyl Chloride
Concen: 0.430 ppbv
RT: 2.046 min Scan# 605
Delta R.T. -0.046 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

Tgt Ion:	41	Resp:	6513
Ion	Ratio	Lower	Upper
41	100		
76	421.9	24.1	36.1#
39	0.0	61.1	91.7#

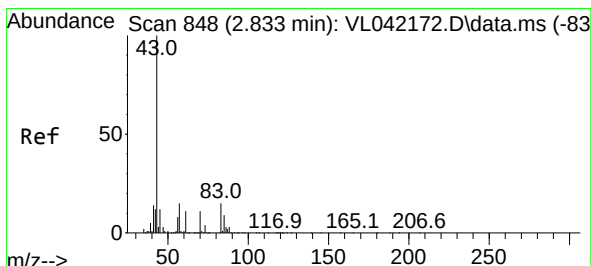
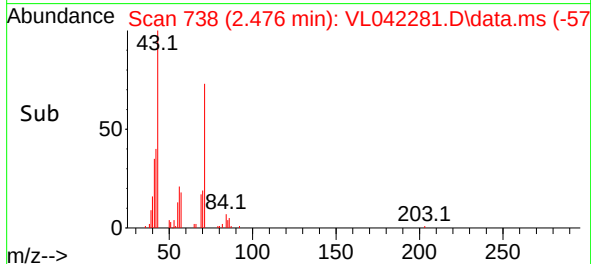
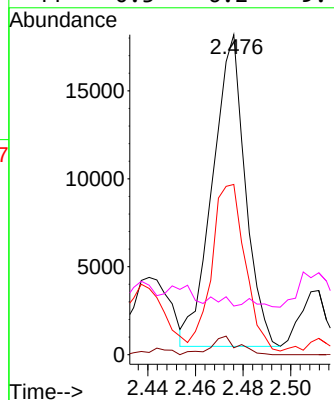
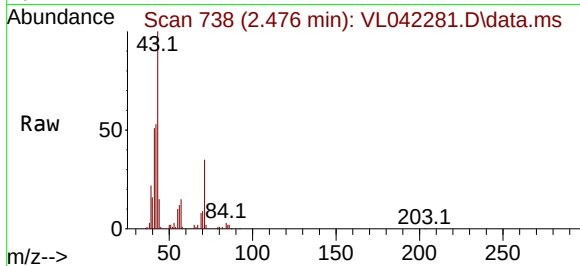




#23
 Vinyl Acetate
 Concen: 1.813 ppbv
 RT: 2.476 min Scan# 71
 Delta R.T. 0.016 min
 Lab File: VL042281.D
 Acq: 09 Apr 2025 01:49

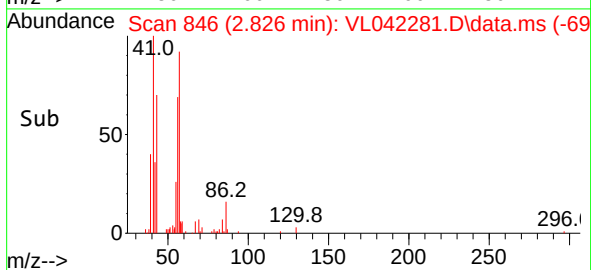
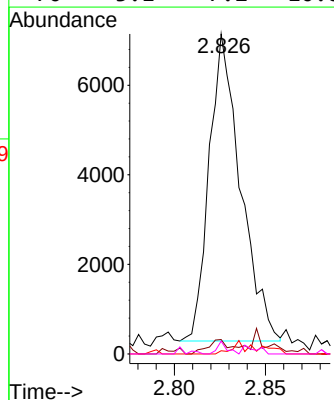
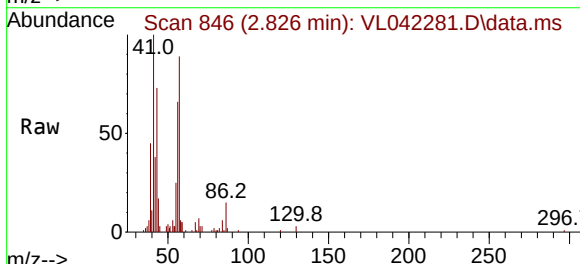
Instrument :
 MSVOA_1
 ClientSampleId :
 SSSG-B2-6-04022025

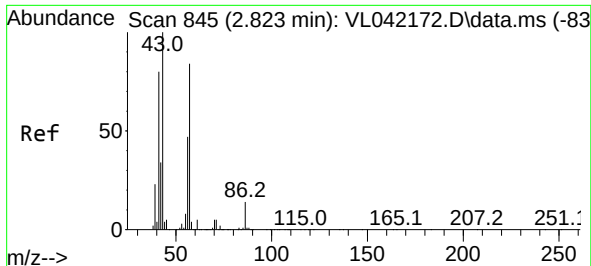
Tgt Ion:	43	Resp:	16870
Ion	Ratio	Lower	Upper
43	100		
86	2.2	5.5	8.3#
42	53.4	8.6	13.0#
44	0.3	6.2	9.4#



#25
 Ethyl Acetate
 Concen: 0.148 ppbv
 RT: 2.826 min Scan# 846
 Delta R.T. -0.007 min
 Lab File: VL042281.D
 Acq: 09 Apr 2025 01:49

Tgt Ion:	43	Resp:	8240
Ion	Ratio	Lower	Upper
43	100		
45	8.6	8.2	12.2
61	3.3	7.3	10.9#
70	3.1	7.2	10.8#

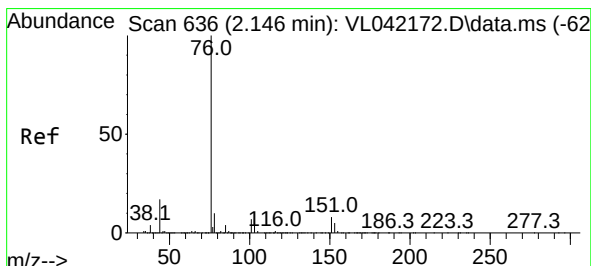
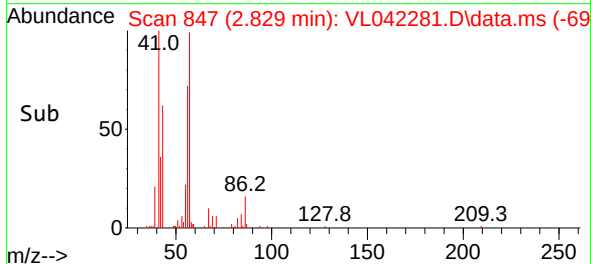
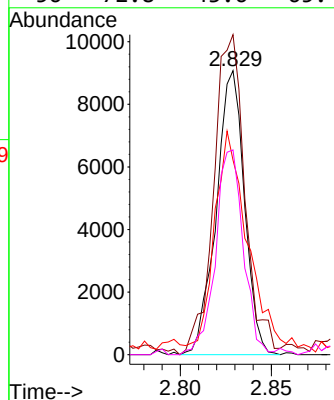
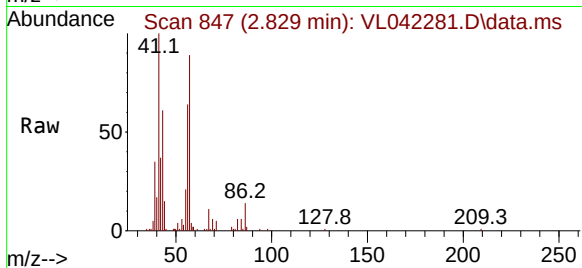




#26
Hexane
Concen: 0.453 ppbv
RT: 2.829 min Scan# 84
Delta R.T. 0.006 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

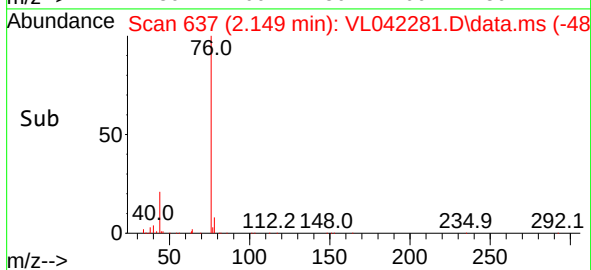
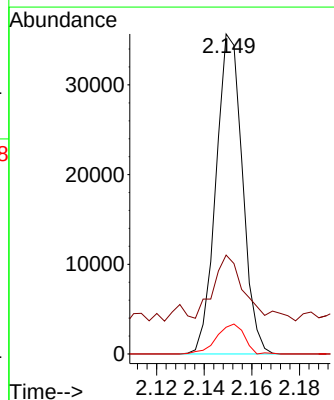
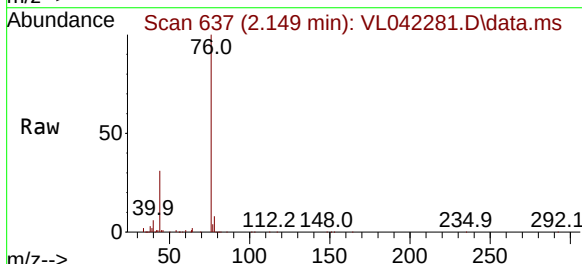
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025

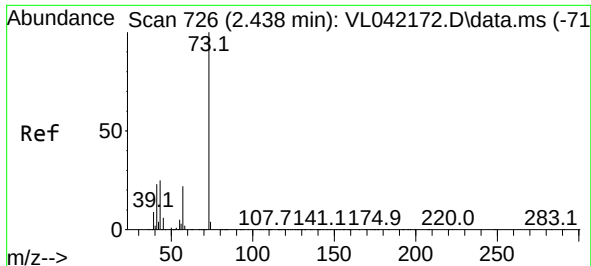
Tgt Ion: 57 Resp: 9763
Ion Ratio Lower Upper
57 100
41 119.4 76.6 114.8#
43 92.8 207.8 311.8#
56 72.8 43.6 65.4#



#27
Carbon Disulfide
Concen: 1.189 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

Tgt Ion: 76 Resp: 27478
Ion Ratio Lower Upper
76 100
44 29.6 14.7 22.1#
78 9.9 9.3 13.9





#28

Methyl tert-Butyl Ether

Concen: 0.066 ppbv

RT: 2.444 min Scan# 71

Delta R.T. 0.006 min

Lab File: VL042281.D

Acq: 09 Apr 2025 01:49

Instrument :

MSVOA_L

ClientSampleId :

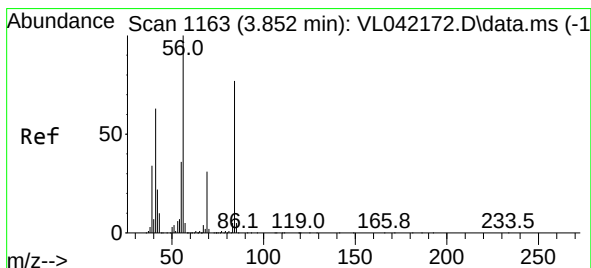
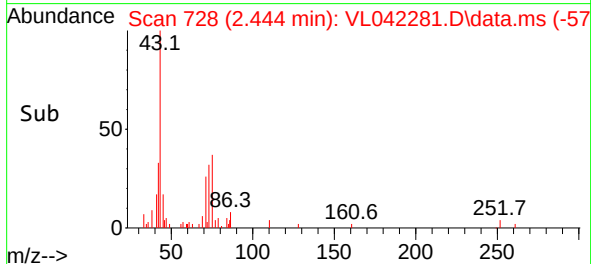
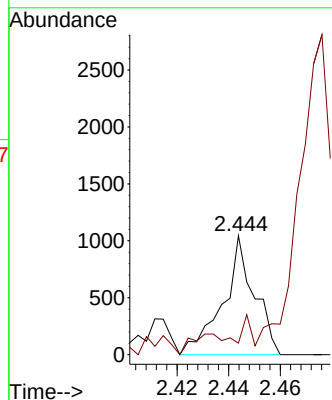
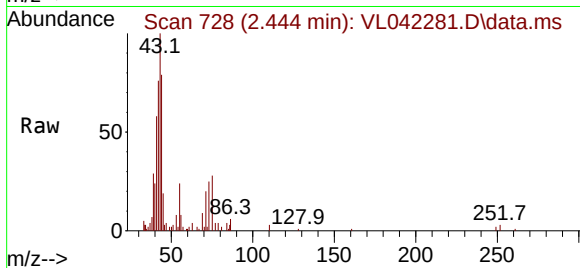
SSSG-B2-6-04022025

Tgt Ion: 73 Resp: 880

Ion Ratio Lower Upper

73 100

57 344.8 20.5 30.7#



#30

Cyclohexane

Concen: 0.210 ppbv

RT: 3.858 min Scan# 1165

Delta R.T. 0.006 min

Lab File: VL042281.D

Acq: 09 Apr 2025 01:49

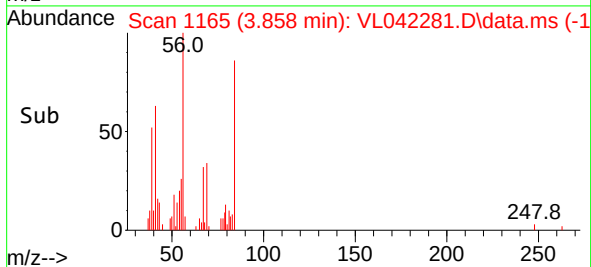
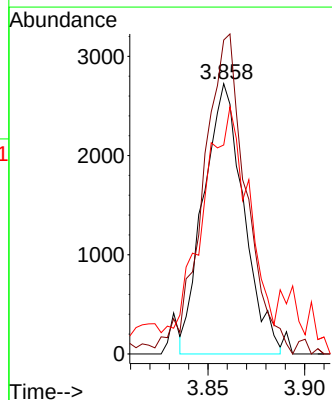
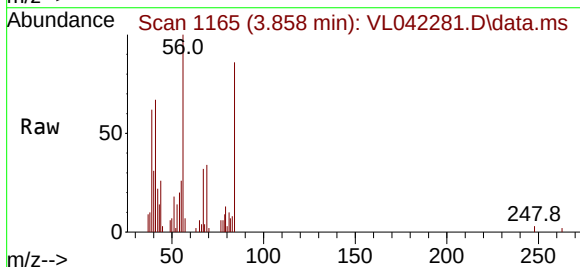
Tgt Ion: 84 Resp: 3921

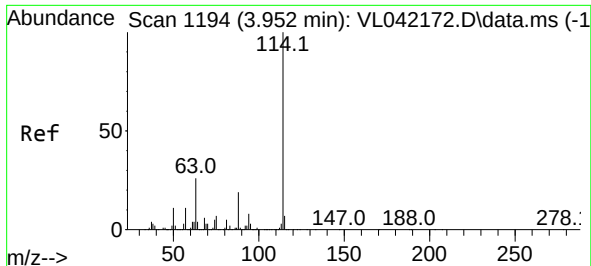
Ion Ratio Lower Upper

84 100

56 129.2 102.8 154.2

41 122.6 66.5 99.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.958 min Scan# 1196

Delta R.T. 0.006 min

Lab File: VL042281.D

Acq: 09 Apr 2025 01:49

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-6-04022025

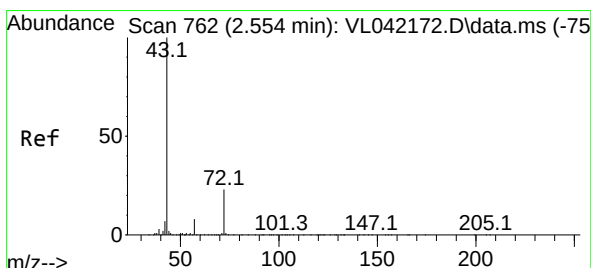
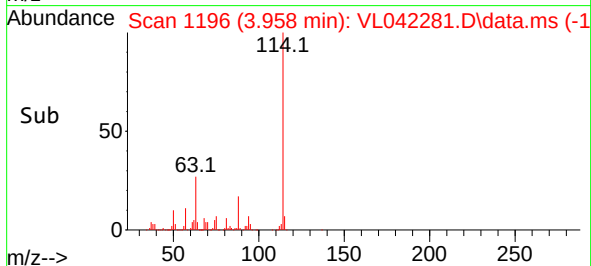
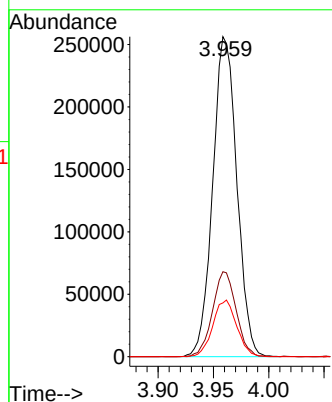
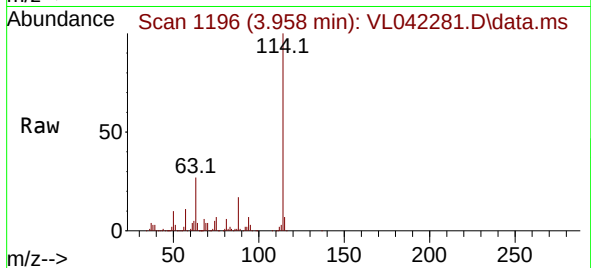
Tgt Ion:114 Resp: 388271

Ion Ratio Lower Upper

114 100

63 26.1 20.7 31.1

88 17.6 15.0 22.4



#34

2-Butanone

Concen: 4.571 ppbv

RT: 2.560 min Scan# 764

Delta R.T. 0.006 min

Lab File: VL042281.D

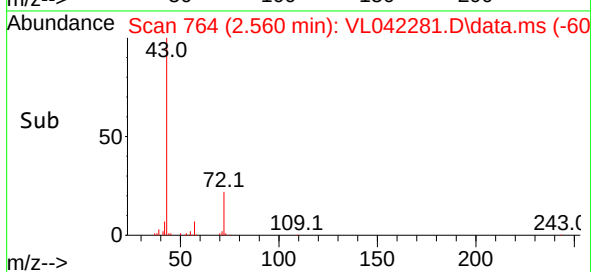
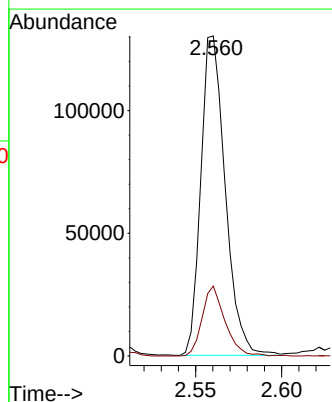
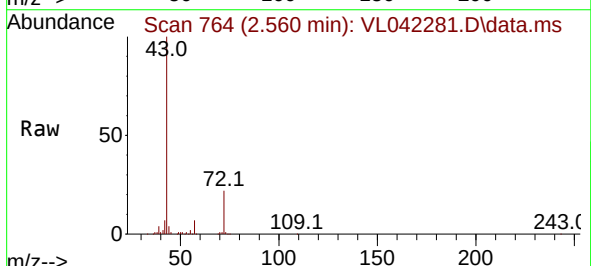
Acq: 09 Apr 2025 01:49

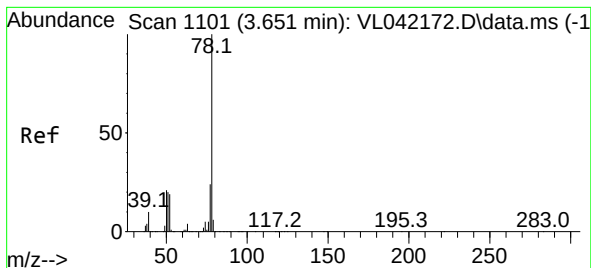
Tgt Ion: 43 Resp: 128691

Ion Ratio Lower Upper

43 100

72 20.5 18.2 27.2





#36

Benzene

Concen: 0.304 ppbv

RT: 3.658 min Scan# 1103

Delta R.T. 0.006 min

Lab File: VL042281.D

Acq: 09 Apr 2025 01:49

Instrument :

MSVOA_1

ClientSampleId :

SSSG-B2-6-04022025

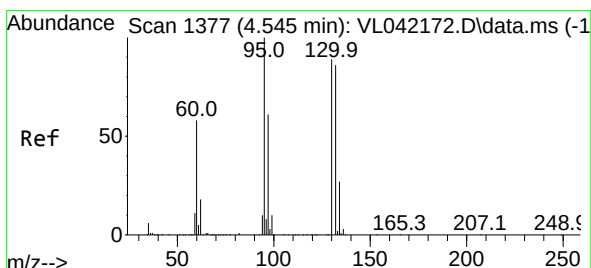
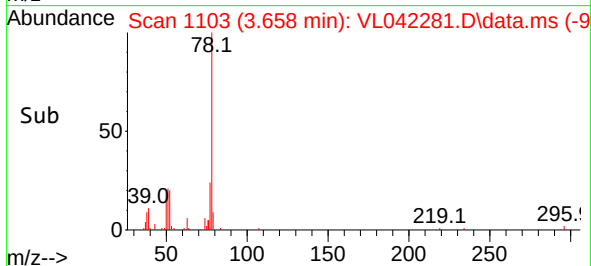
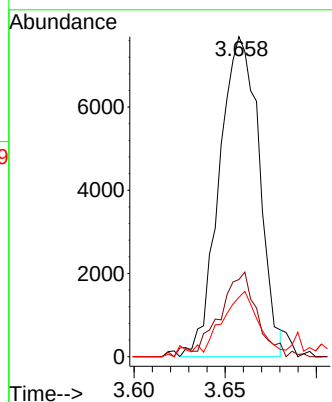
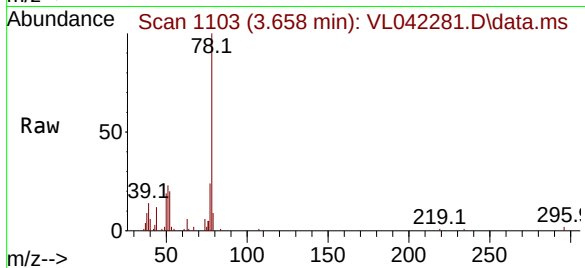
Tgt Ion: 78 Resp: 11702

Ion Ratio Lower Upper

78 100

77 21.4 19.1 28.7

50 16.2 16.6 24.8#



#38

Trichloroethene

Concen: 0.035 ppbv

RT: 4.554 min Scan# 1380

Delta R.T. 0.009 min

Lab File: VL042281.D

Acq: 09 Apr 2025 01:49

Tgt Ion: 130 Resp: 557

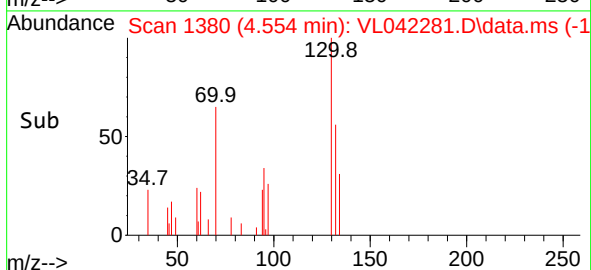
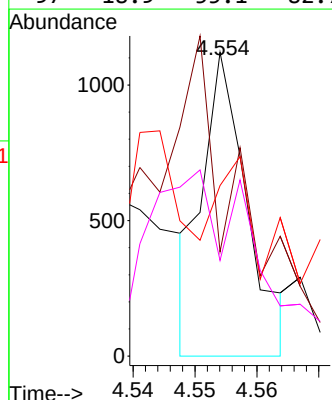
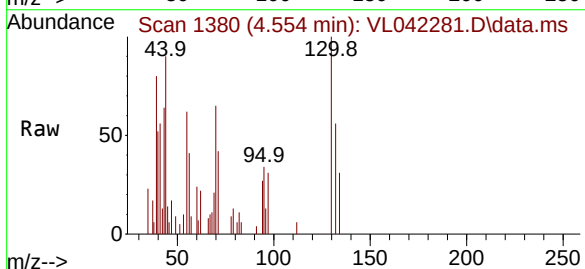
Ion Ratio Lower Upper

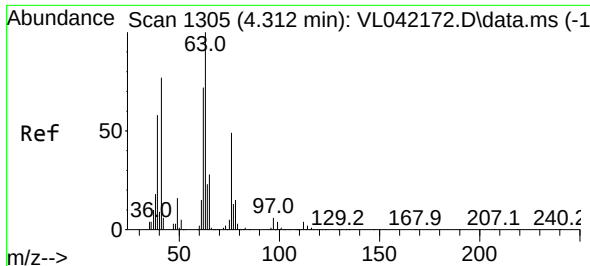
130 100

95 0.0 89.8 134.8#

132 14.6 77.4 116.2#

97 18.9 55.1 82.7#





#39

1,2-Dichloropropane

Concen: 7.188 ppbv

RT: 3.958 min Scan# 1196

Delta R.T. -0.353 min

Lab File: VL042281.D

Acq: 09 Apr 2025 01:49

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-6-04022025

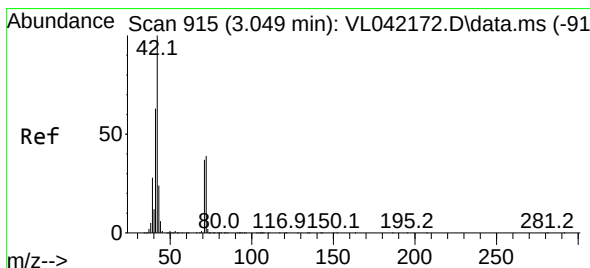
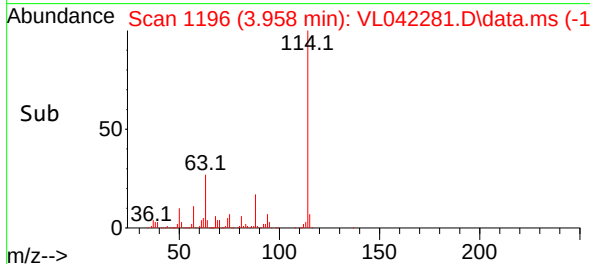
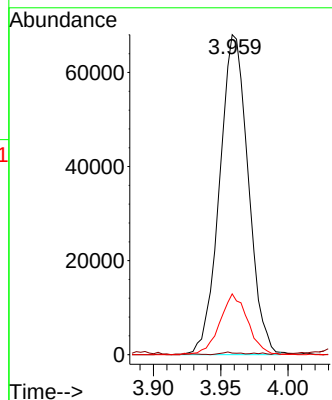
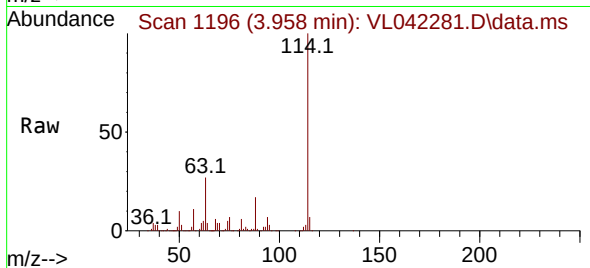
Tgt Ion: 63 Resp: 100762

Ion Ratio Lower Upper

63 100

41 0.3 61.7 92.5#

62 19.0 57.6 86.4#



#41

Tetrahydrofuran

Concen: 0.040 ppbv

RT: 3.062 min Scan# 919

Delta R.T. 0.013 min

Lab File: VL042281.D

Acq: 09 Apr 2025 01:49

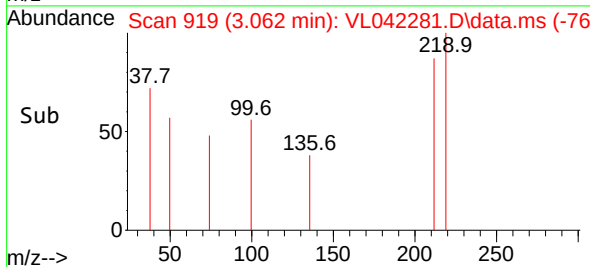
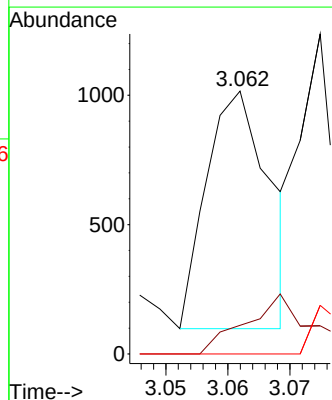
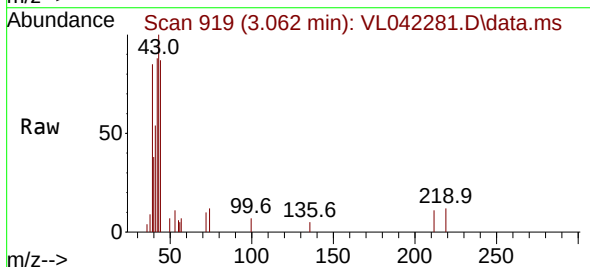
Tgt Ion: 42 Resp: 649

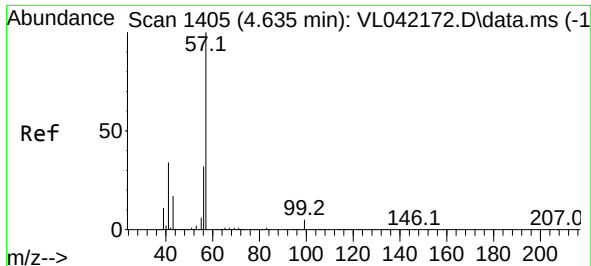
Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 0.0 30.2 45.4#

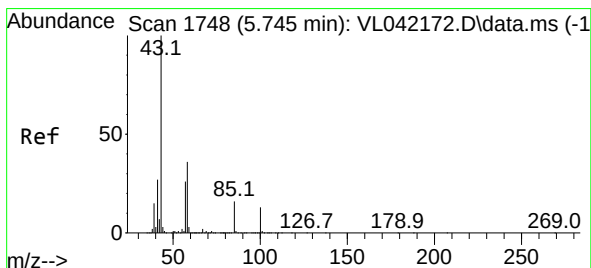
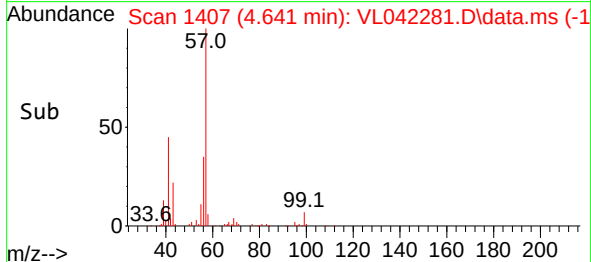
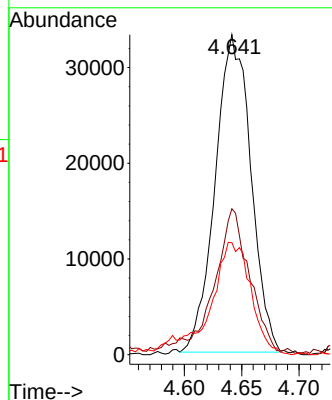
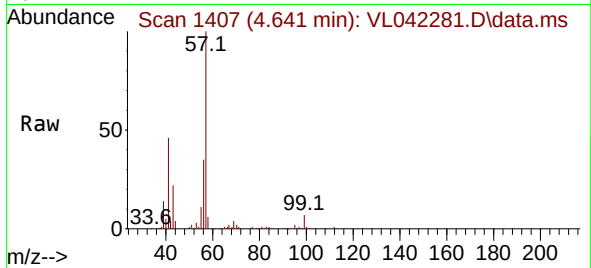




#44
2,2,4-Trimethylpentane
Concen: 1.105 ppbv
RT: 4.641 min Scan# 1405
Delta R.T. 0.006 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

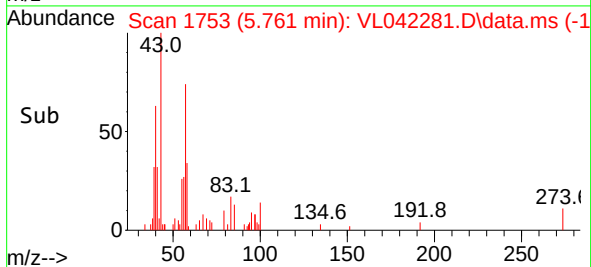
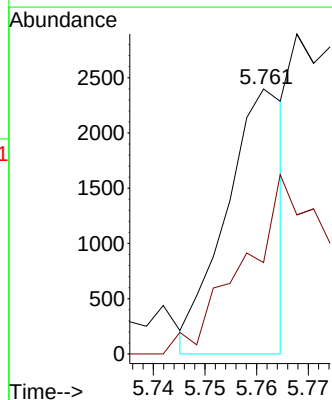
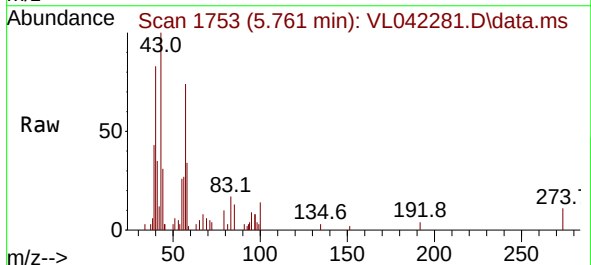
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B2-6-04022025

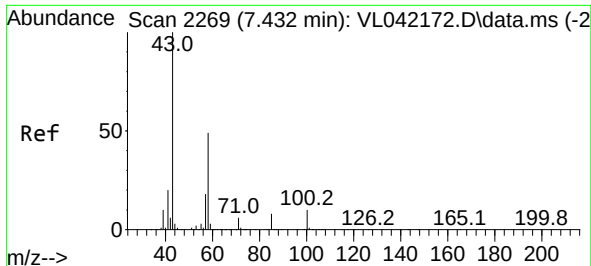
Tgt Ion: 57 Resp: 71853
Ion Ratio Lower Upper
57 100
41 47.1 26.8 40.2#
56 41.7 25.6 38.4#



#50
4-Methyl-2-Pentanone
Concen: 0.042 ppbv
RT: 5.761 min Scan# 1753
Delta R.T. 0.016 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

Tgt Ion: 43 Resp: 1868
Ion Ratio Lower Upper
43 100
58 0.0 29.0 43.6#

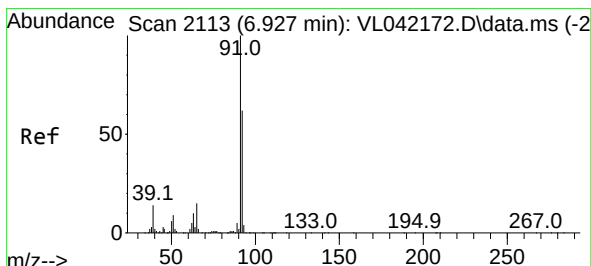
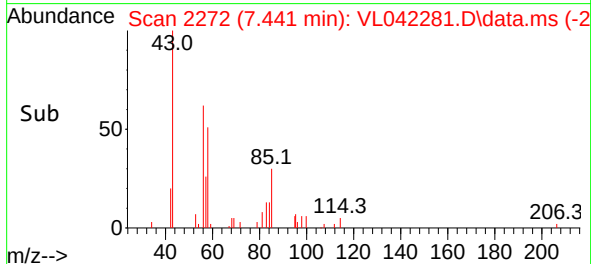
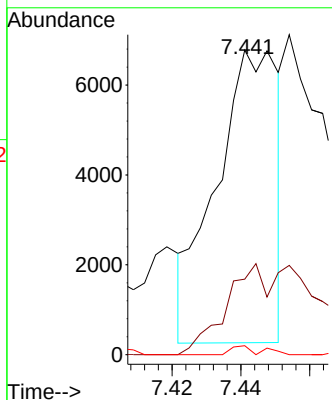
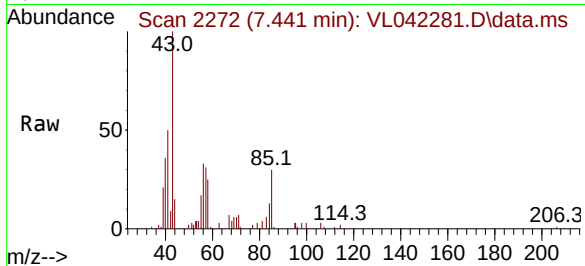




#51
2-Hexanone
Concen: 0.223 ppbv
RT: 7.441 min Scan# 2115
Delta R.T. 0.009 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

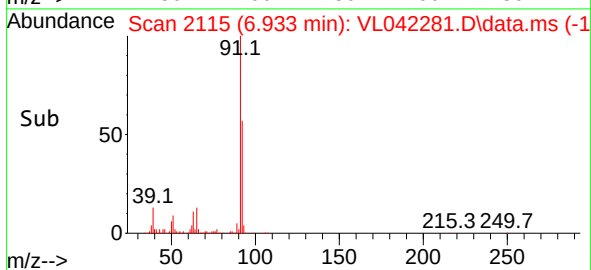
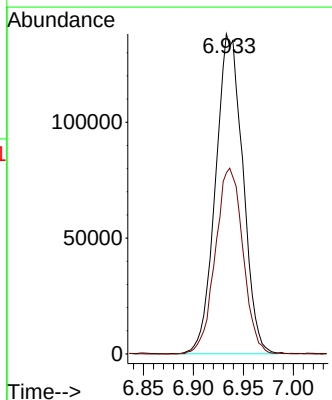
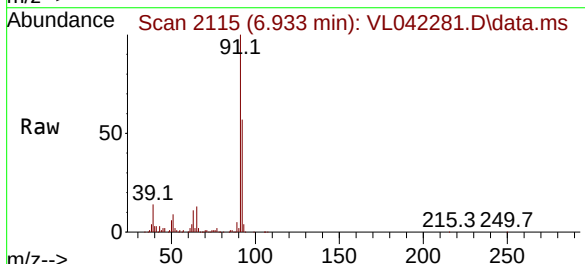
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025

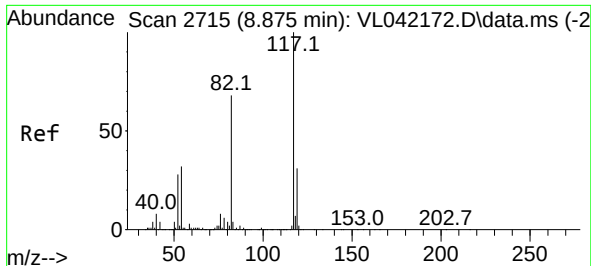
Tgt Ion: 43 Resp: 8163
Ion Ratio Lower Upper
43 100
58 49.4 39.7 59.5
98 1.4 0.1 0.1#



#53
Toluene
Concen: 5.737 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.006 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

Tgt Ion: 91 Resp: 261772
Ion Ratio Lower Upper
91 100
92 59.0 48.4 72.6

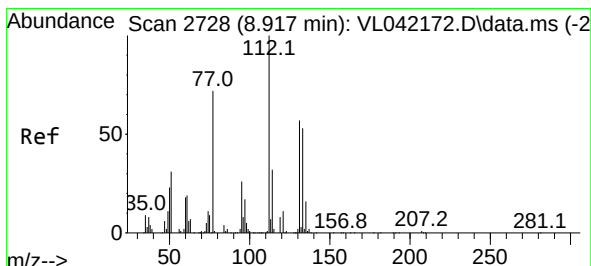
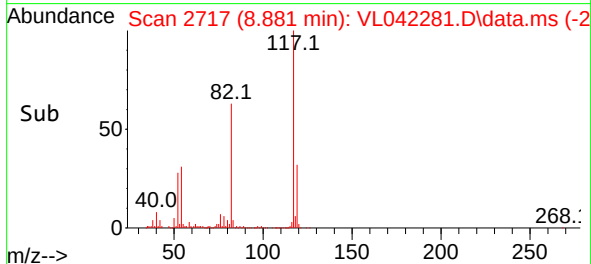
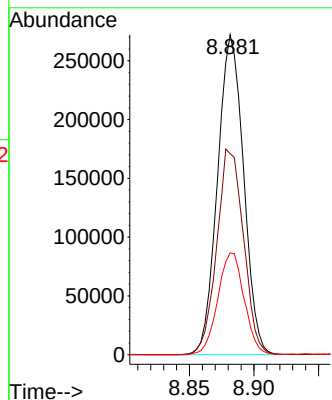
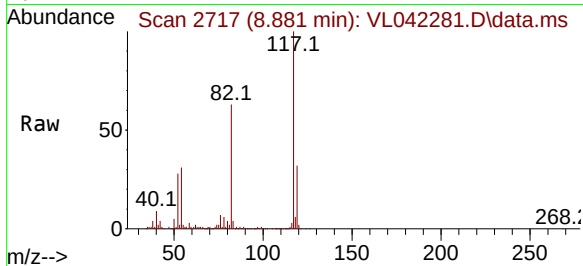




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2717
Delta R.T. 0.006 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

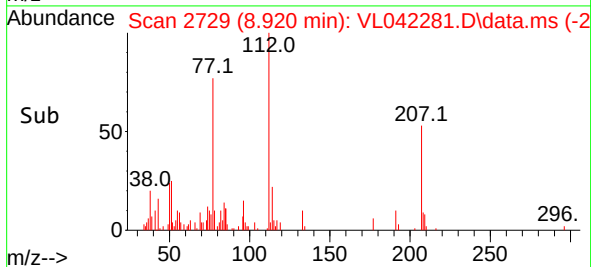
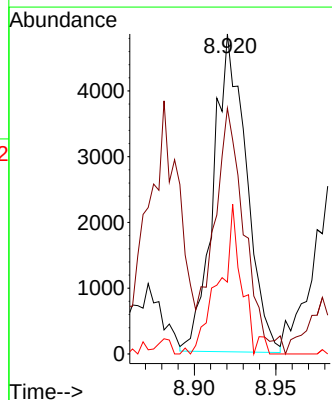
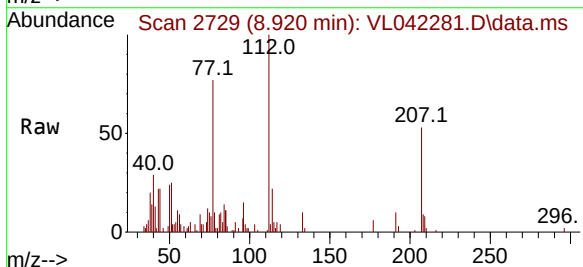
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025

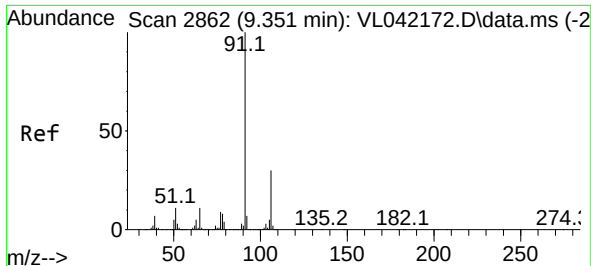
Tgt Ion:117 Resp: 381682
Ion Ratio Lower Upper
117 100
82 66.0 55.8 83.6
119 32.2 25.5 38.3



#57
Chlorobenzene
Concen: 0.187 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

Tgt Ion:112 Resp: 6785
Ion Ratio Lower Upper
112 100
77 72.9 58.2 87.2
114 23.0 29.1 35.5#

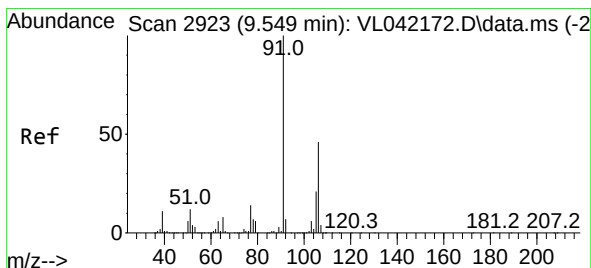
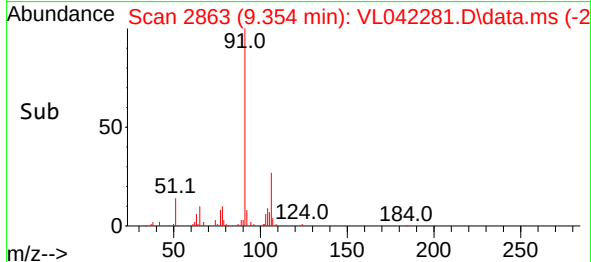
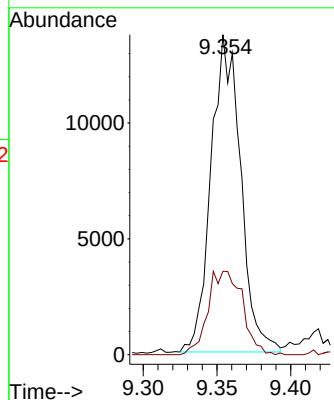
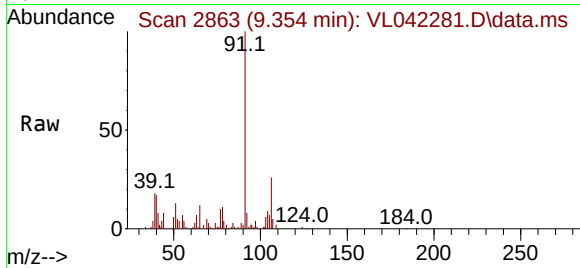




#58
Ethyl Benzene
Concen: 0.281 ppbv
RT: 9.354 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

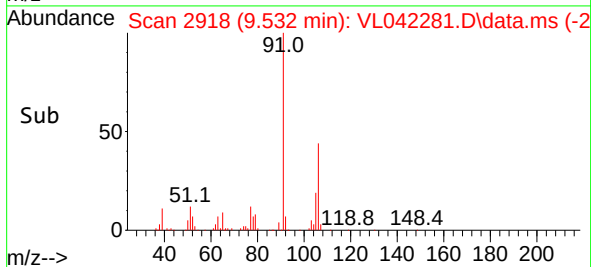
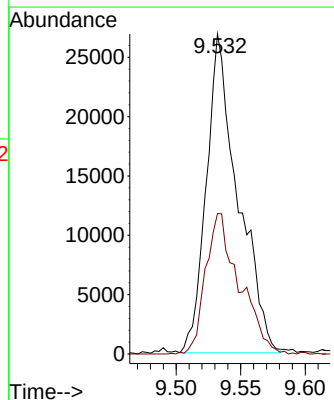
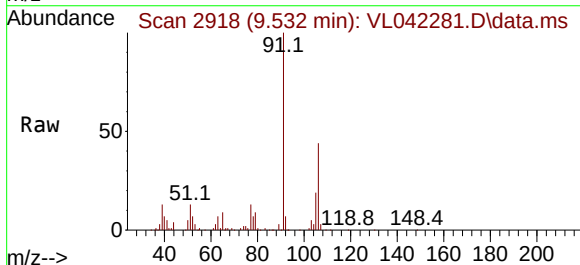
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025

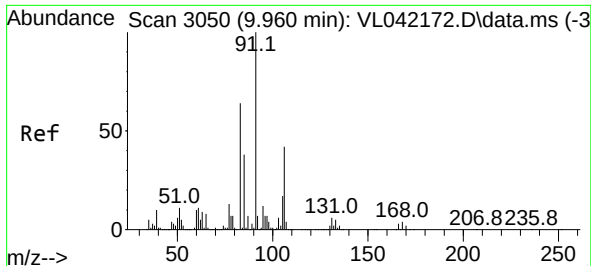
Tgt Ion: 91 Resp: 19066
Ion Ratio Lower Upper
91 100
106 26.3 24.2 36.2



#59
m/p-Xylene
Concen: 0.850 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. -0.017 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

Tgt Ion: 91 Resp: 46011
Ion Ratio Lower Upper
91 100
106 47.0 36.4 54.6

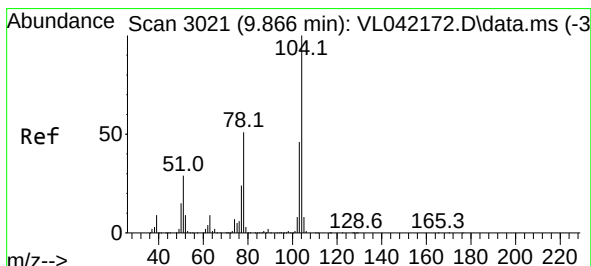
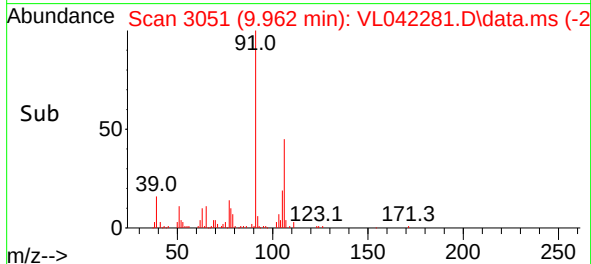
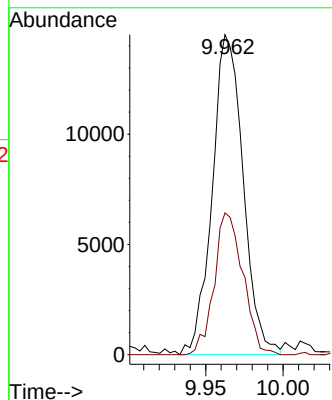
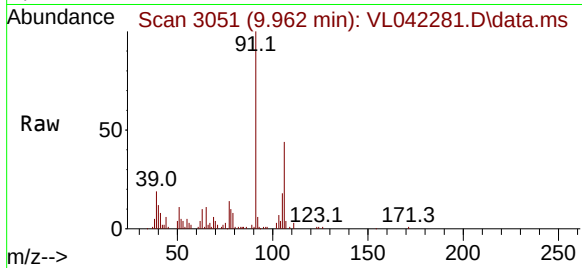




#60
o-Xylene
Concen: 0.371 ppbv
RT: 9.962 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

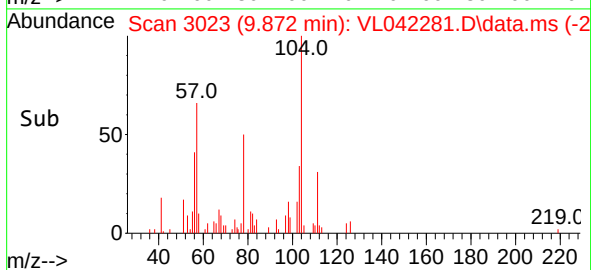
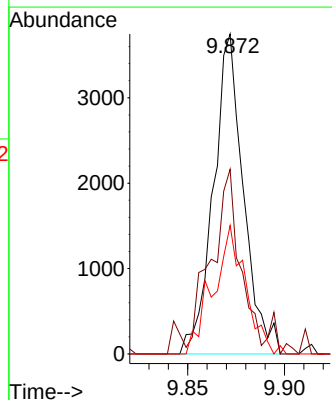
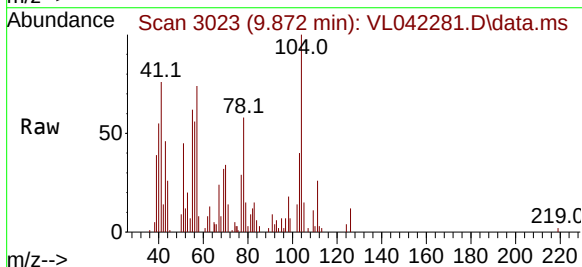
Instrument : MSVOA_L
ClientSampleId : SSSG-B2-6-04022025

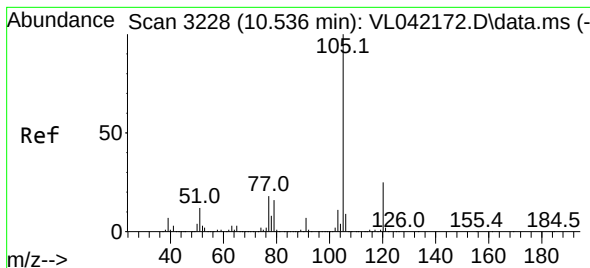
Tgt Ion: 91 Resp: 20160
Ion Ratio Lower Upper
91 100
106 41.4 20.8 62.5



#61
Styrene
Concen: 0.151 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.006 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

Tgt Ion: 104 Resp: 4043
Ion Ratio Lower Upper
104 100
78 63.1 41.8 62.6#
103 43.3 37.0 55.4





#62

Isopropylbenzene

Concen: 0.040 ppbv

RT: 10.542 min Scan# 31

Delta R.T. 0.006 min

Lab File: VL042281.D

Acq: 09 Apr 2025 01:49

Instrument :

MSVOA_L

ClientSampleId :

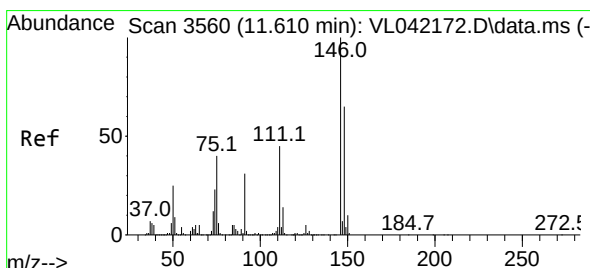
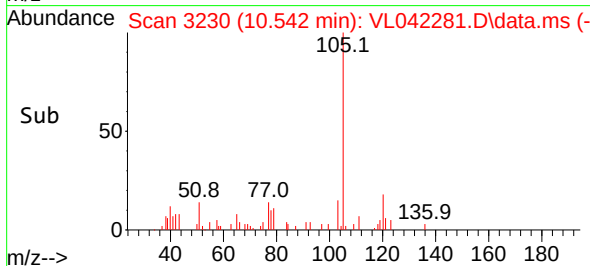
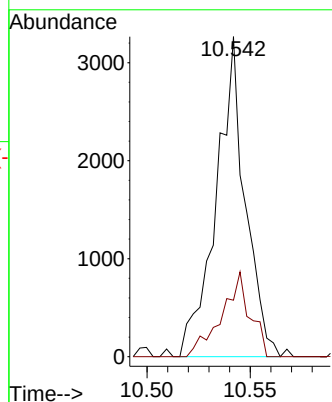
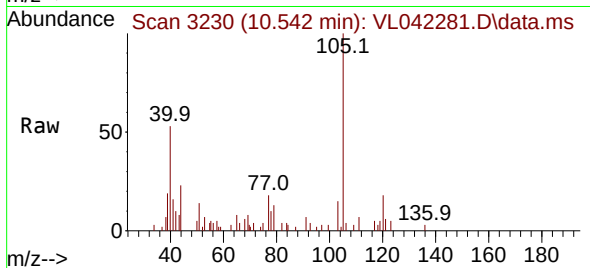
SSSG-B2-6-04022025

Tgt Ion:105 Resp: 3207

Ion Ratio Lower Upper

105 100

120 25.8 19.9 29.9



#66

Benzyl Chloride

Concen: 0.032 ppbv

RT: 11.613 min Scan# 3561

Delta R.T. 0.003 min

Lab File: VL042281.D

Acq: 09 Apr 2025 01:49

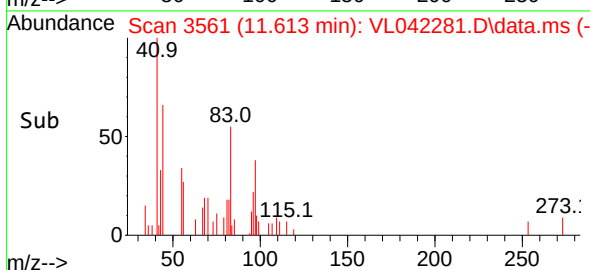
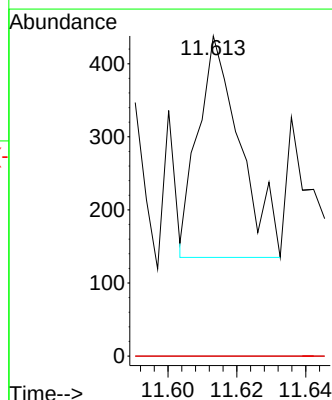
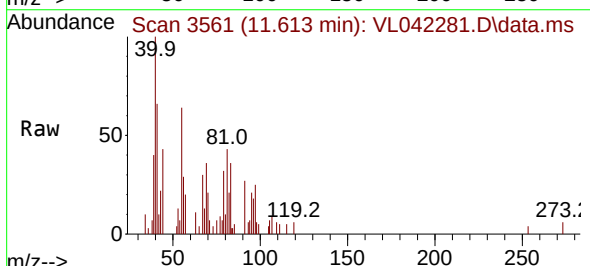
Tgt Ion: 91 Resp: 256

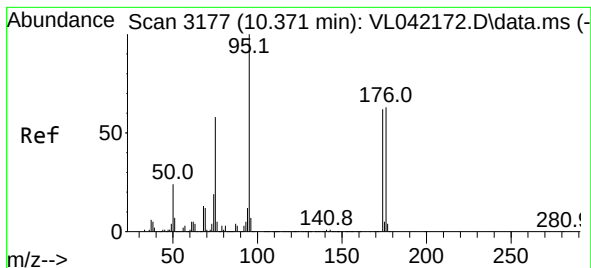
Ion Ratio Lower Upper

91 100

126 0.0 13.8 20.6#

128 0.0 4.5 6.7#

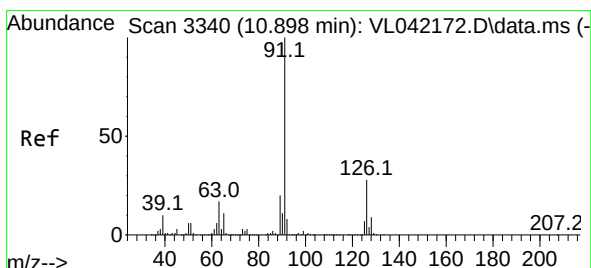
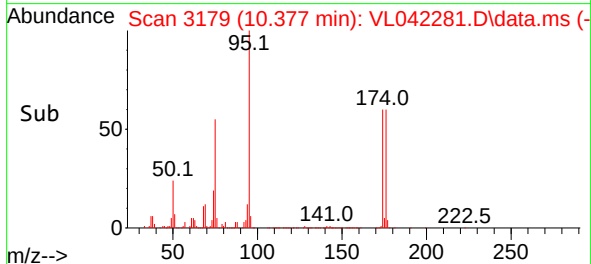
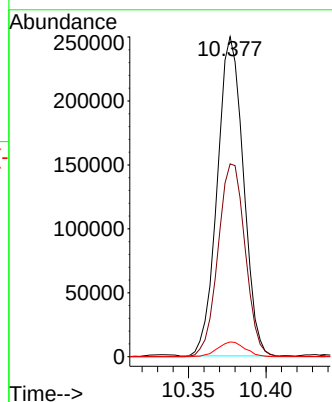
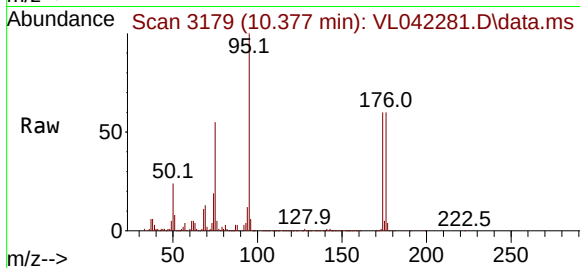




#68
1-Bromo-4-Fluorobenzene
Concen: 9.329 ppbv
RT: 10.377 min Scan# 3177
Delta R.T. 0.006 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

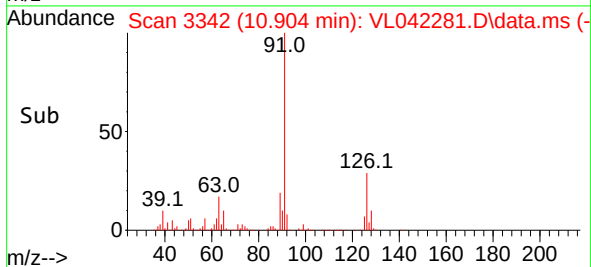
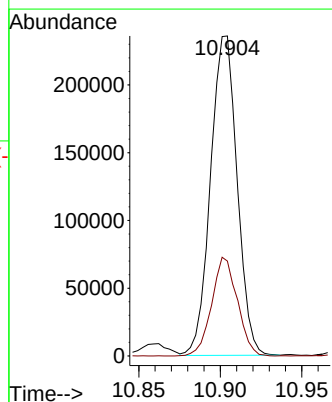
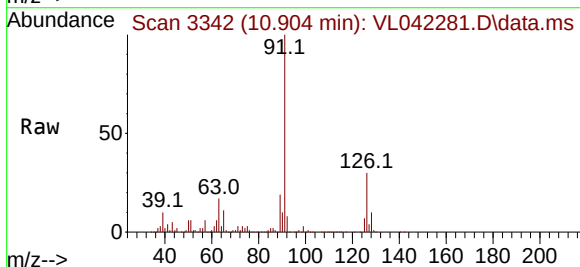
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025

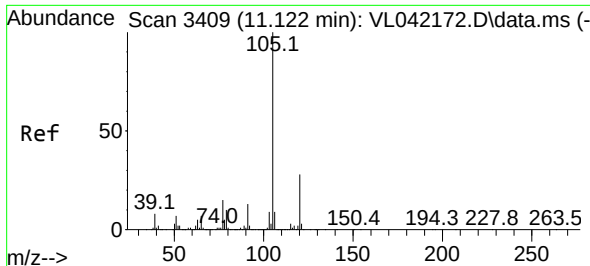
Tgt Ion: 95 Resp: 292407
Ion Ratio Lower Upper
95 100
174 63.0 50.6 76.0
175 4.9 3.8 5.6



#71
2-Chlorotoluene
Concen: 4.247 ppbv
RT: 10.904 min Scan# 3342
Delta R.T. 0.006 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

Tgt Ion: 91 Resp: 267528
Ion Ratio Lower Upper
91 100
126 29.9 11.6 46.4

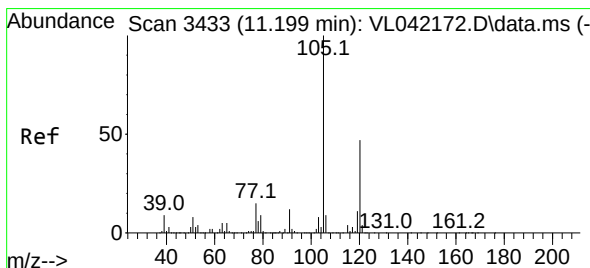
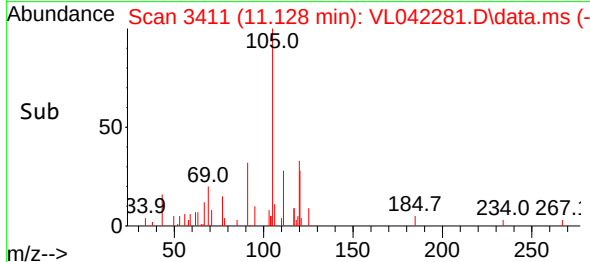
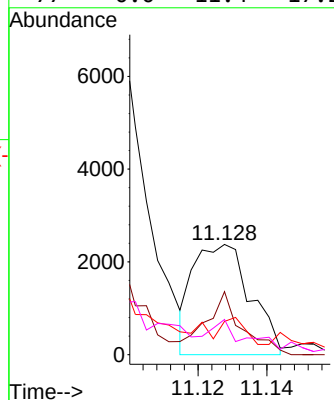
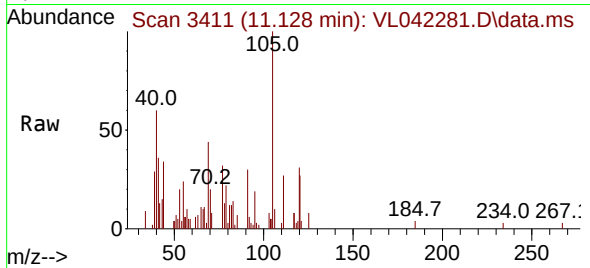




#72
4-Ethyltoluene
Concen: 0.041 ppbv
RT: 11.128 min Scan# 3409
Delta R.T. 0.006 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

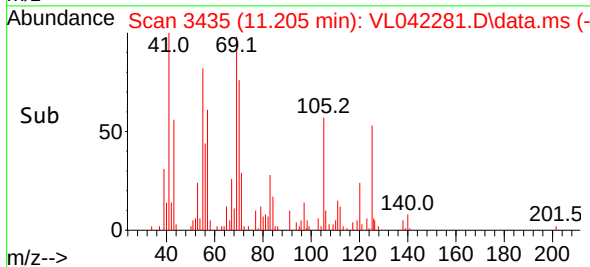
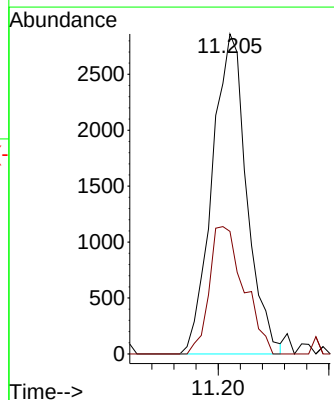
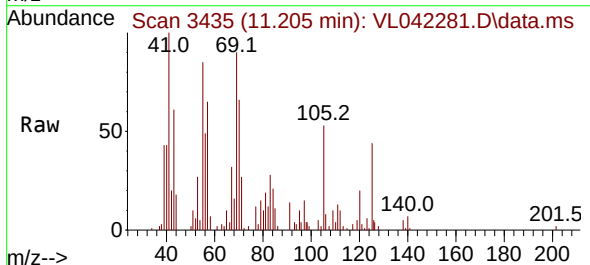
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025

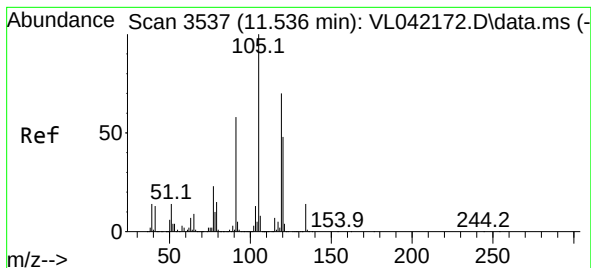
Tgt Ion:105	Resp:	2757	
Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.4	35.0#
91	0.0	10.3	15.5#
77	0.0	11.4	17.2#



#73
1,3,5-Trimethylbenzene
Concen: 0.053 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. 0.006 min
Lab File: VL042281.D
Acq: 09 Apr 2025 01:49

Tgt	Ion:105	Resp:	3106
Ion	Ratio	Lower	Upper
105	100		
120	38.3	37.4	56.0





#74

1,2,4-Trimethylbenzene

Concen: 0.105 ppbv

RT: 11.535 min Scan# 3

Delta R.T. -0.000 min

Lab File: VL042281.D

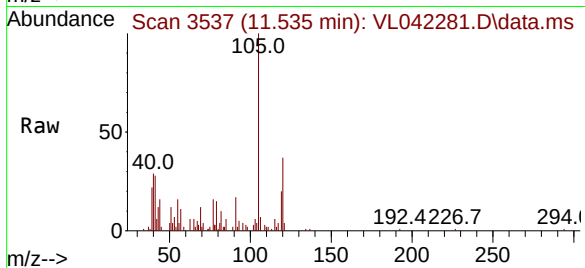
Acq: 09 Apr 2025 01:49

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-6-04022025



Tgt Ion:105 Resp: 7115

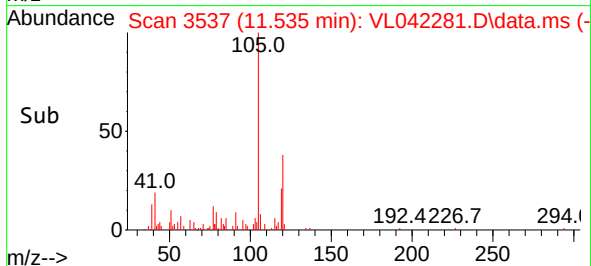
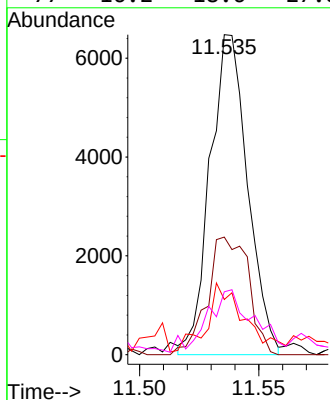
Ion Ratio Lower Upper

105 100

120 36.4 38.6 58.0#

91 16.3 46.2 69.2#

77 16.2 18.6 27.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042283.D
 Acq On : 09 Apr 2025 02:51
 Operator : SY/MD
 Sample : Q1728-10 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B14-4-04012025

Quant Time: Apr 09 08:27:29 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)

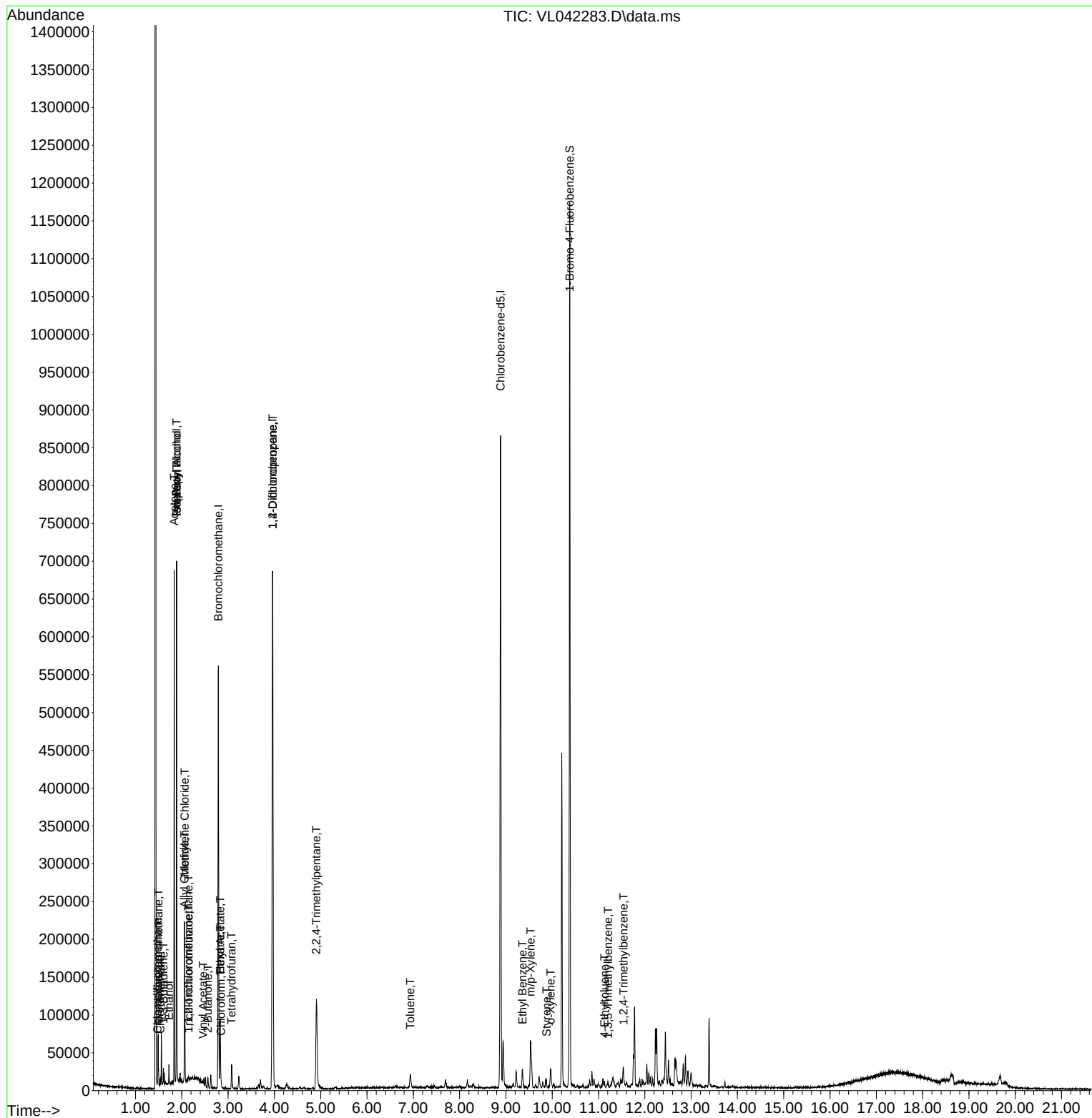
Internal Standards						
1) Bromochloromethane	2.790	49	155290	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	388359	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	341830	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	287523	10.243	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.400%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.499	85	5799	0.253	ppbv	98
3) Chlorodifluoromethane	1.476	51	4290	0.183	ppbv	97
4) Chloromethane	1.535	50	2332	0.249	ppbv	97
9) Propene	1.887	41	26969	2.512	ppbv	91
11) Trichlorofluoromethane	2.143	101	730	0.033	ppbv	90
12) 1,1,2-Trichlorotrifluo...	2.143	101	730	0.040	ppbv	86
13) Ethanol	1.722	45	7713	7.600	ppbv #	27
15) Acetone	1.836	43	276321	12.723	ppbv	97
16) 1,3-Butadiene	1.603	39	2390	0.225	ppbv #	24
17) tert-Butyl alcohol	1.887	59	10331	0.382	ppbv	99
19) Isopropyl Alcohol	1.887	45	274802	22.426	ppbv #	33
20) Methylene Chloride	2.062	84	29400	3.635	ppbv	87
21) Allyl Chloride	2.059	41	1235	0.081	ppbv #	22
23) Vinyl Acetate	2.457	43	2280	0.243	ppbv #	83
25) Ethyl Acetate	2.829	43	15237	0.270	ppbv #	79
26) Hexane	2.829	57	17021	0.782	ppbv #	33
29) Chloroform	2.849	83	2769	0.087	ppbv #	79
34) 2-Butanone	2.564	43	9233	0.328	ppbv	95
39) 1,2-Dichloropropane	3.962	63	101030	7.205	ppbv #	21
41) Tetrahydrofuran	3.072	42	1102	0.068	ppbv #	41
44) 2,2,4-Trimethylpentane	4.907	57	116682	1.793	ppbv #	49
53) Toluene	6.937	91	12300	0.270	ppbv	97
58) Ethyl Benzene	9.358	91	12642	0.208	ppbv #	85
59) m/p-Xylene	9.532	91	39977	0.825	ppbv	99
60) o-Xylene	9.966	91	9522	0.196	ppbv	99
61) Styrene	9.875	104	1514	0.063	ppbv #	28
72) 4-Ethyltoluene	11.128	105	1856	0.031	ppbv #	49
73) 1,3,5-Trimethylbenzene	11.206	105	1627	0.031	ppbv	86
74) 1,2,4-Trimethylbenzene	11.539	105	6419	0.105	ppbv #	61

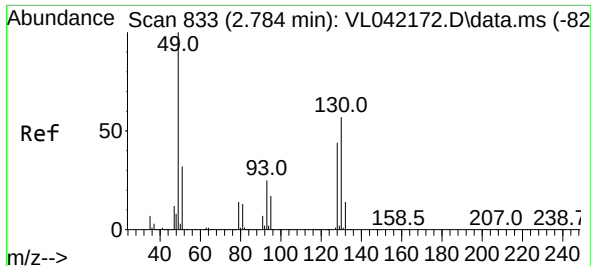
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042283.D
Acq On : 09 Apr 2025 02:51
Operator : SY/MD
Sample : Q1728-10 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04012025

Quant Time: Apr 09 08:27:29 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

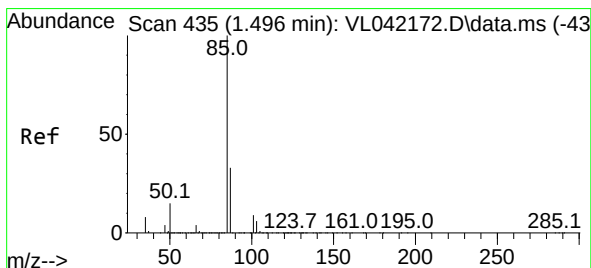
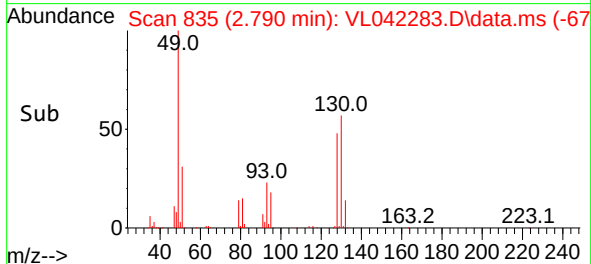
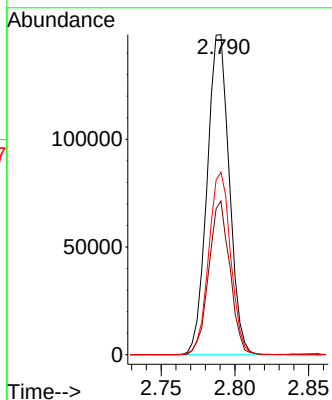
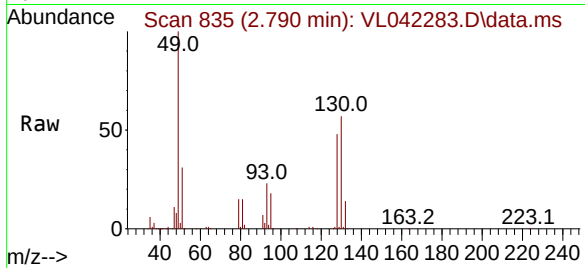




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

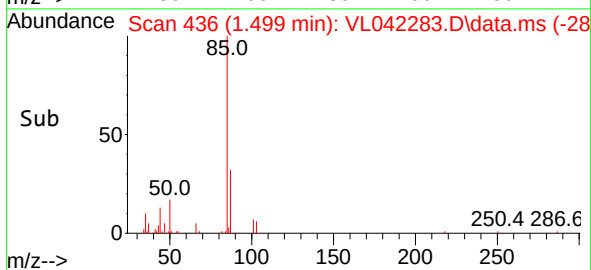
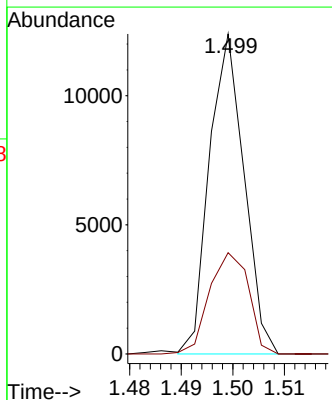
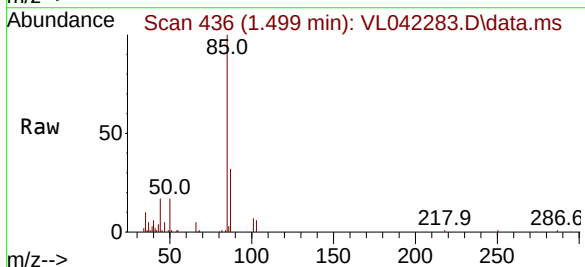
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04012025

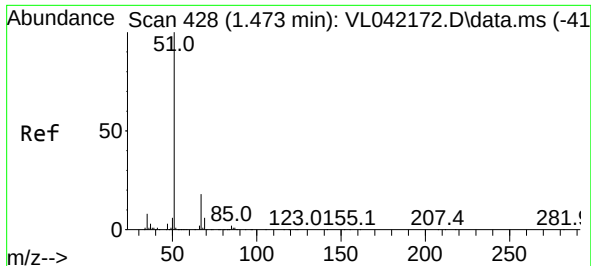
Tgt Ion: 49 Resp: 155290
Ion Ratio Lower Upper
49 100
128 45.8 22.9 68.5
130 56.6 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.253 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

Tgt Ion: 85 Resp: 5799
Ion Ratio Lower Upper
85 100
87 31.7 26.1 39.1

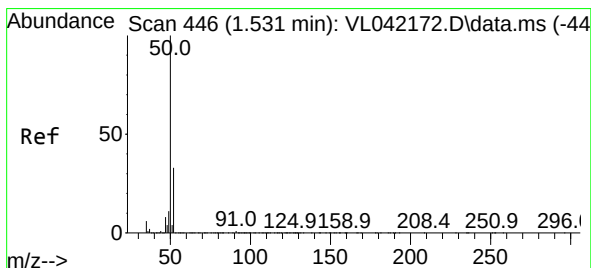
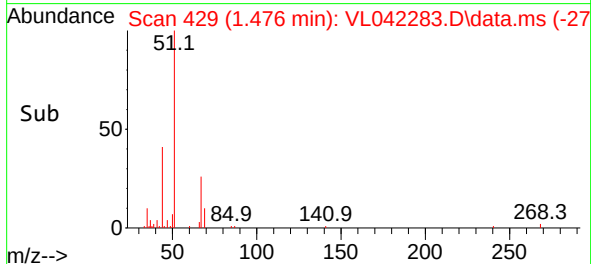
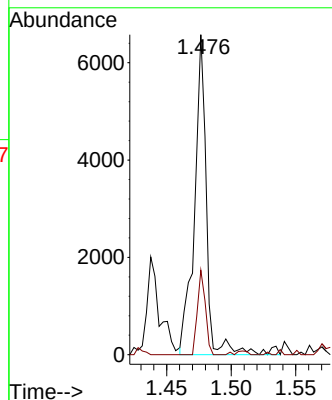
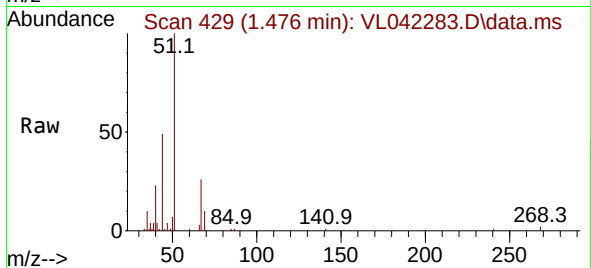




#3
Chlorodifluoromethane
Concen: 0.183 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

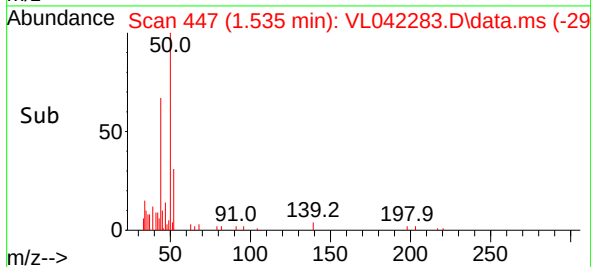
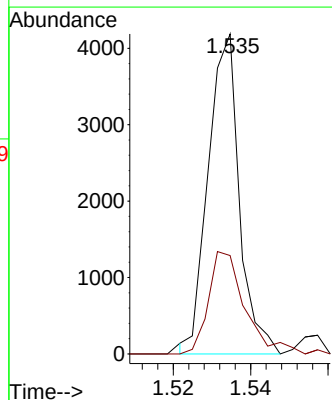
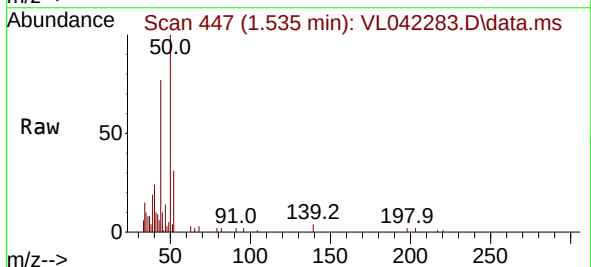
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04012025

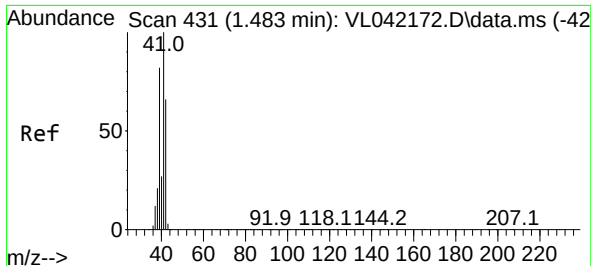
Tgt Ion: 51 Resp: 4290
Ion Ratio Lower Upper
51 100
67 17.5 15.0 22.6



#4
Chloromethane
Concen: 0.249 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

Tgt Ion: 50 Resp: 2332
Ion Ratio Lower Upper
50 100
52 30.8 26.1 39.1





#9

Propene

Concen: 2.512 ppbv

RT: 1.887 min Scan# 51

Delta R.T. 0.405 min

Lab File: VL042283.D

Acq: 09 Apr 2025 02:51

Instrument :

MSVOA_L

ClientSampleId :

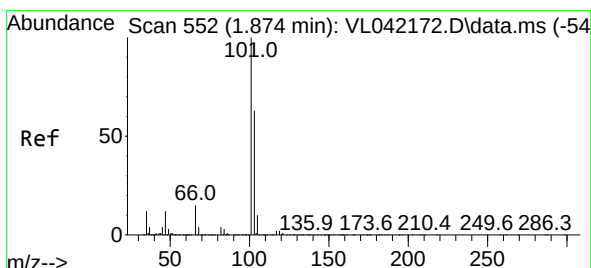
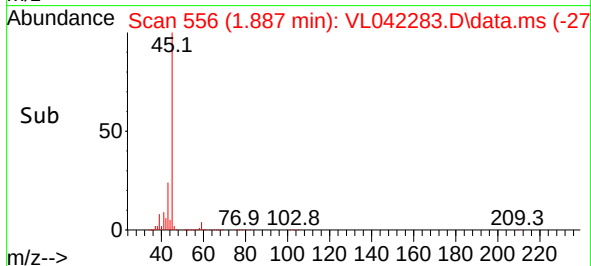
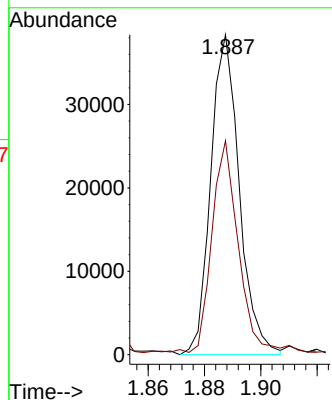
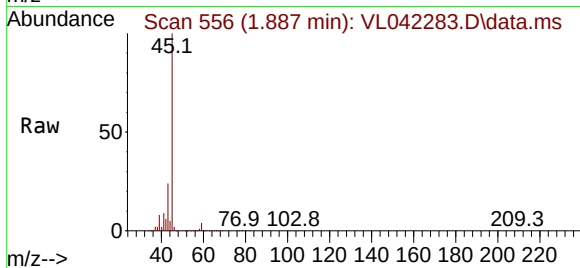
SSSG-B14-4-04012025

Tgt Ion: 41 Resp: 26969

Ion Ratio Lower Upper

41 100

42 61.9 55.4 83.2



#11

Trichlorofluoromethane

Concen: 0.033 ppbv

RT: 2.143 min Scan# 635

Delta R.T. 0.269 min

Lab File: VL042283.D

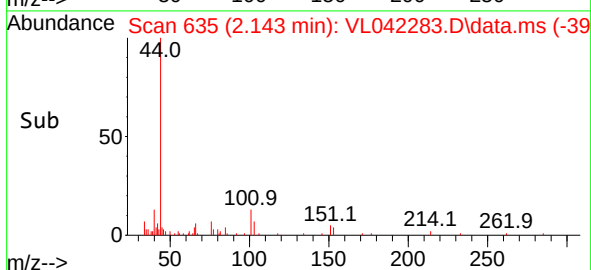
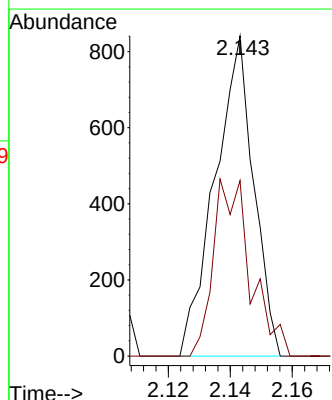
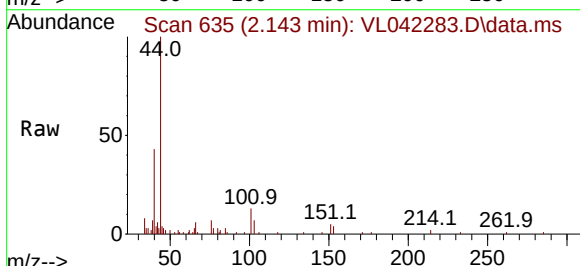
Acq: 09 Apr 2025 02:51

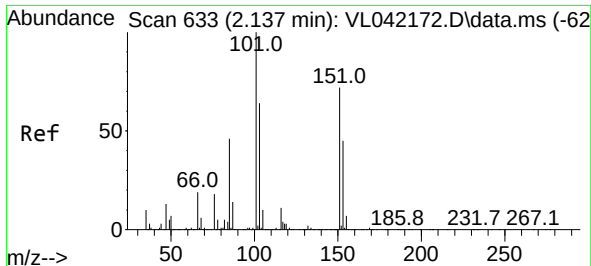
Tgt Ion: 101 Resp: 730

Ion Ratio Lower Upper

101 100

103 54.8 50.2 75.2

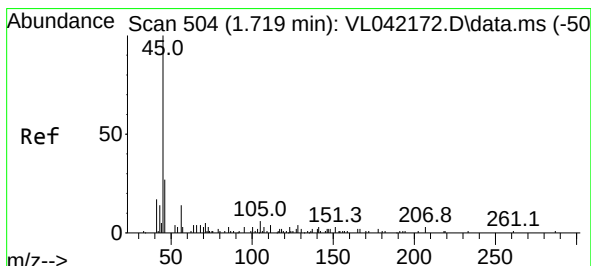
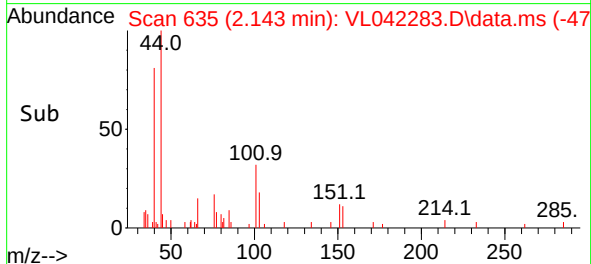
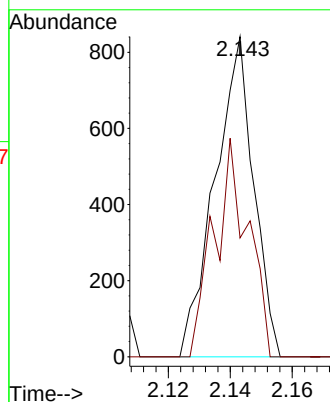
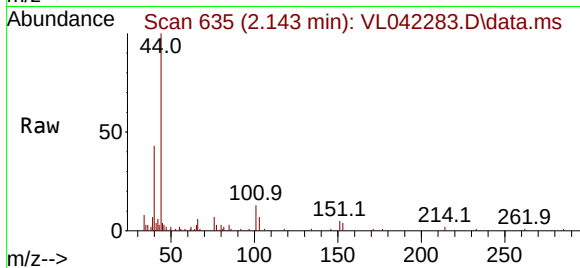




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.040 ppbv
RT: 2.143 min Scan# 61
Delta R.T. 0.007 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

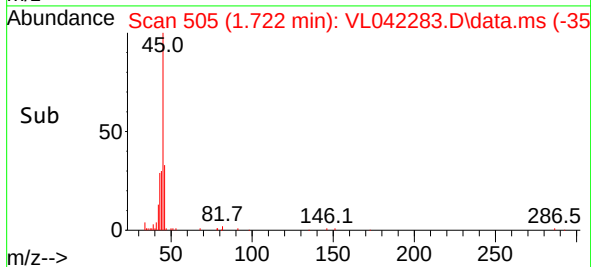
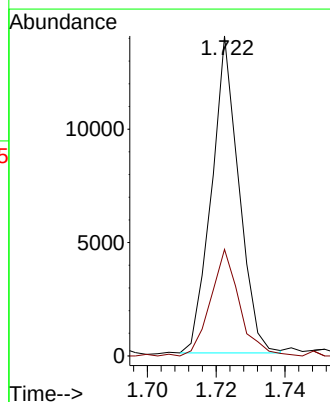
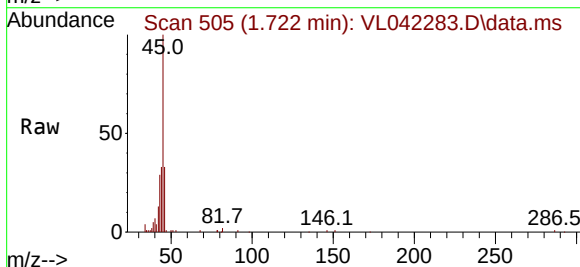
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04012025

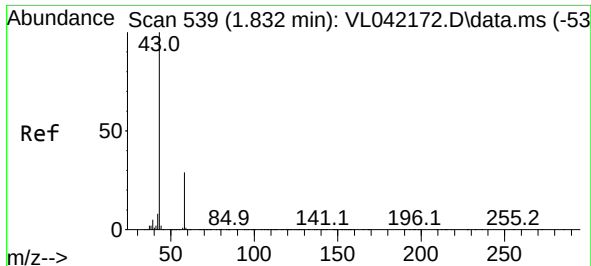
Tgt Ion:101 Resp: 730
Ion Ratio Lower Upper
101 100
151 59.9 57.1 85.7



#13
Ethanol
Concen: 7.600 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

Tgt Ion: 45 Resp: 7713
Ion Ratio Lower Upper
45 100
46 0.0 20.2 80.8#

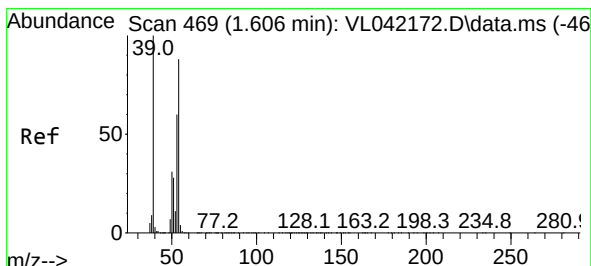
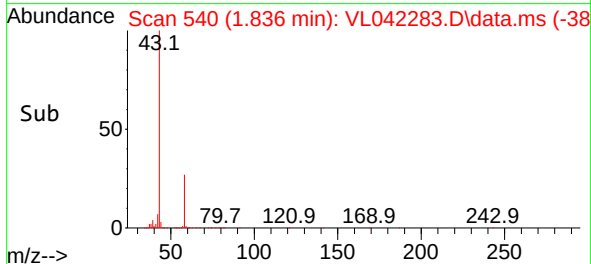
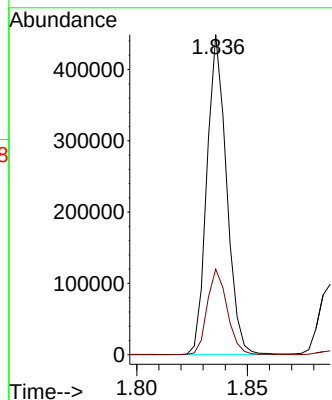
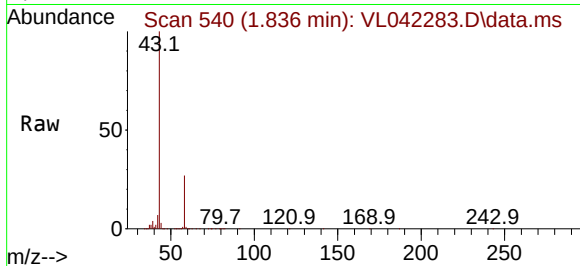




#15
Acetone
Concen: 12.723 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

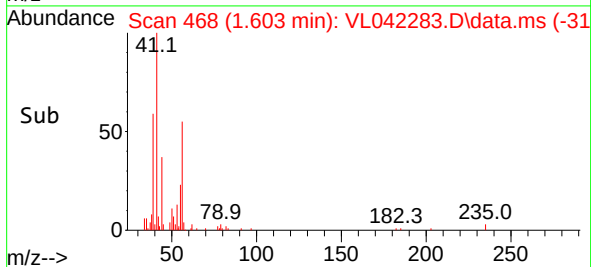
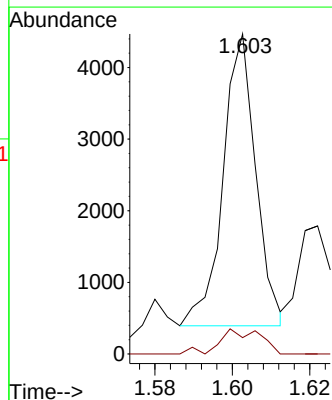
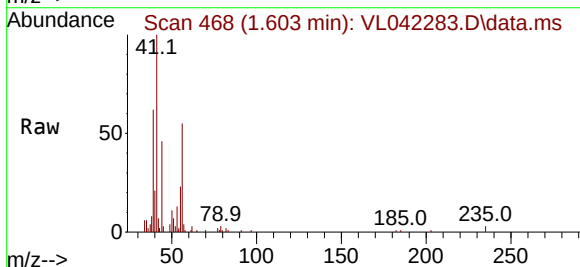
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04012025

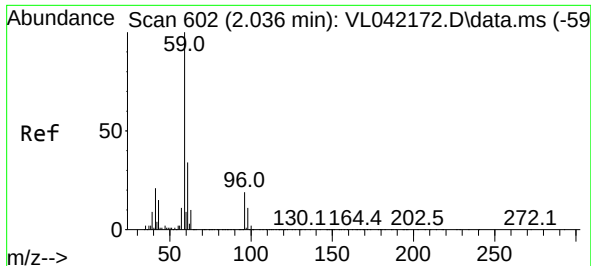
Tgt Ion: 43 Resp: 276321
Ion Ratio Lower Upper
43 100
58 27.2 23.2 34.8



#16
1,3-Butadiene
Concen: 0.225 ppbv
RT: 1.603 min Scan# 468
Delta R.T. -0.003 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

Tgt Ion: 39 Resp: 2390
Ion Ratio Lower Upper
39 100
54 10.7 60.7 91.1#

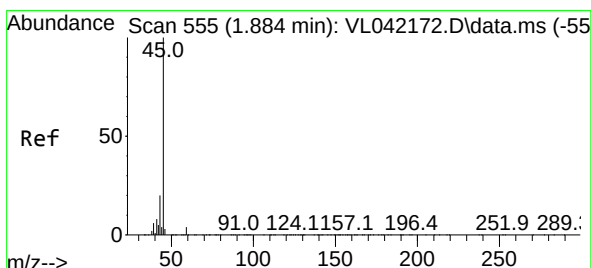
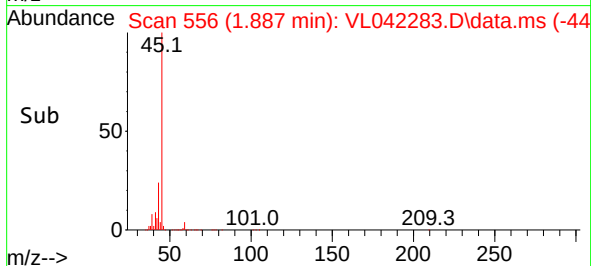
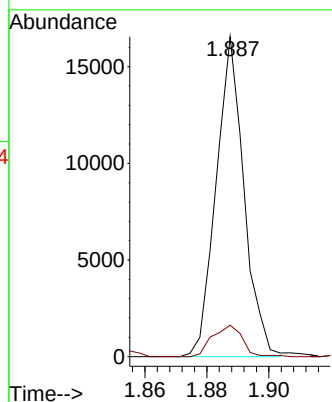
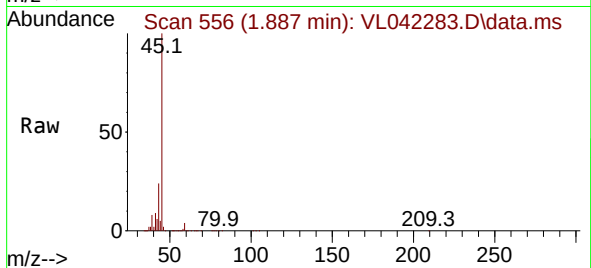




#17
tert-Butyl alcohol
Concen: 0.382 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.149 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

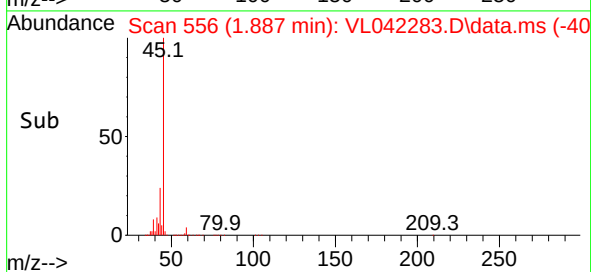
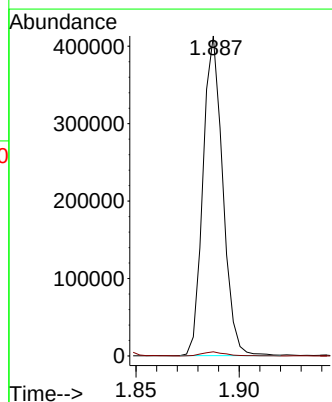
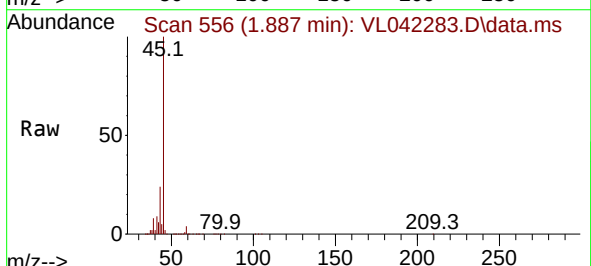
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04012025

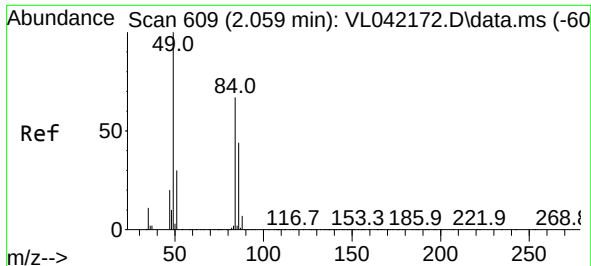
Tgt Ion: 59 Resp: 10331
Ion Ratio Lower Upper
59 100
57 10.6 8.9 13.3



#19
Isopropyl Alcohol
Concen: 22.426 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

Tgt Ion: 45 Resp: 274802
Ion Ratio Lower Upper
45 100
58 1.6 36.9 55.3#





#20

Methylene Chloride

Concen: 3.635 ppbv

RT: 2.062 min Scan# 610

Delta R.T. 0.003 min

Lab File: VL042283.D

Acq: 09 Apr 2025 02:51

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-4-04012025

Tgt Ion: 84 Resp: 29400

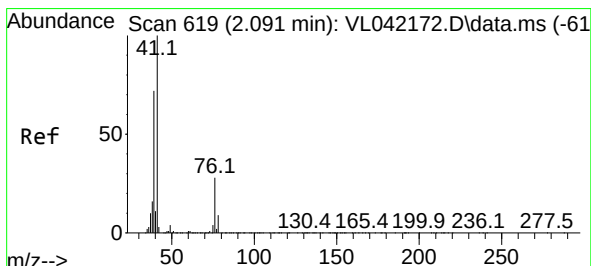
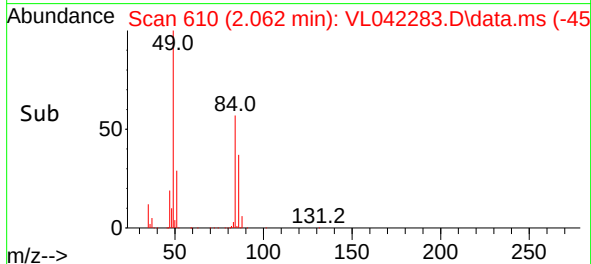
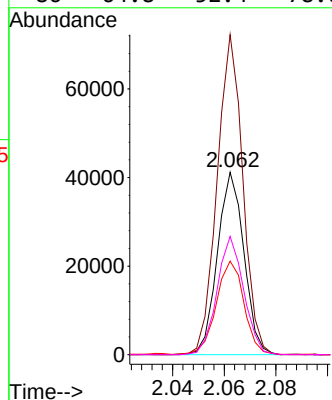
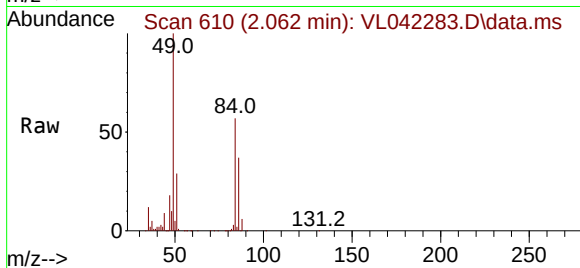
Ion Ratio Lower Upper

84 100

49 175.5 120.2 180.4

51 51.2 37.4 56.0

86 64.8 52.4 78.6



#21

Allyl Chloride

Concen: 0.081 ppbv

RT: 2.059 min Scan# 609

Delta R.T. -0.032 min

Lab File: VL042283.D

Acq: 09 Apr 2025 02:51

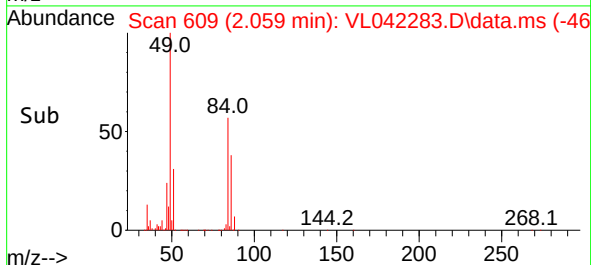
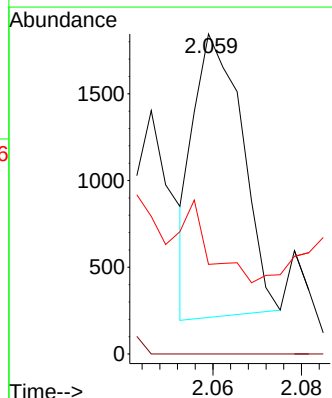
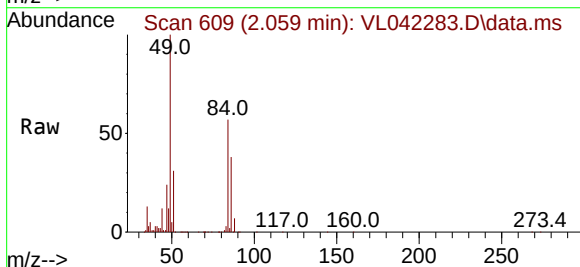
Tgt Ion: 41 Resp: 1235

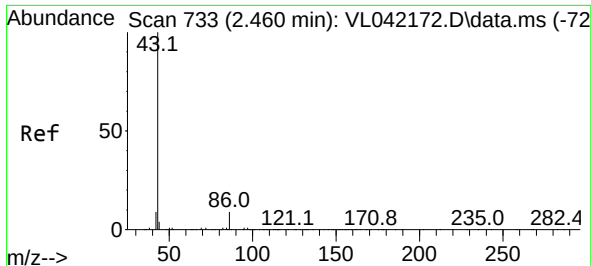
Ion Ratio Lower Upper

41 100

76 2.0 24.1 36.1#

39 0.0 61.1 91.7#

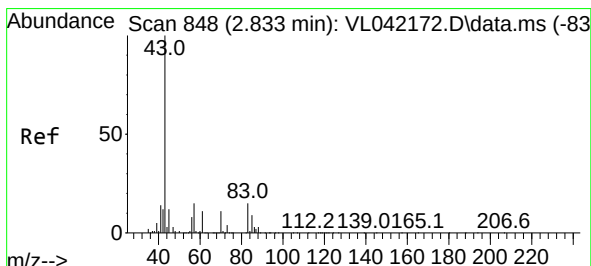
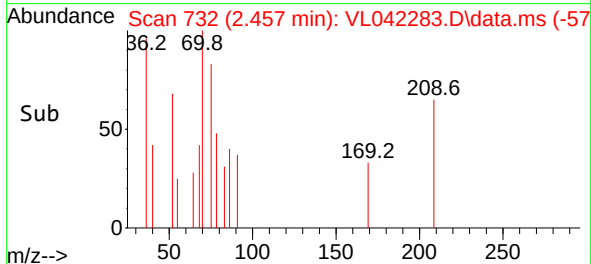
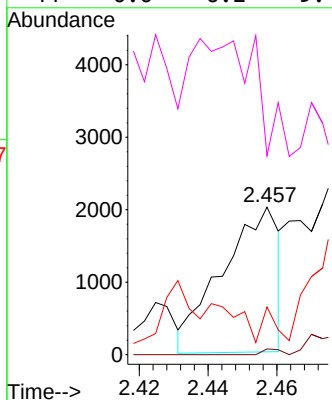
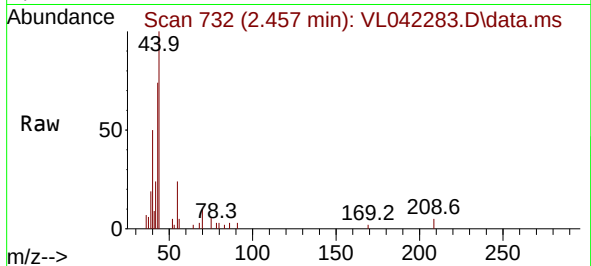




#23
Vinyl Acetate
Concen: 0.243 ppbv
RT: 2.457 min Scan# 71
Delta R.T. -0.003 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

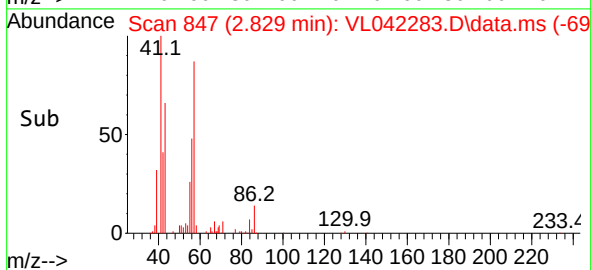
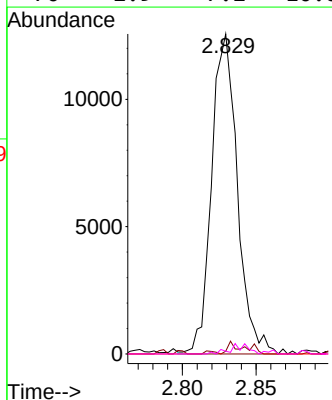
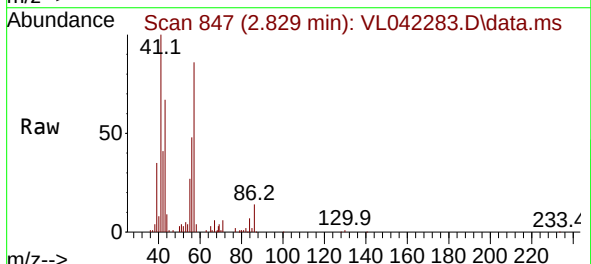
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04012025

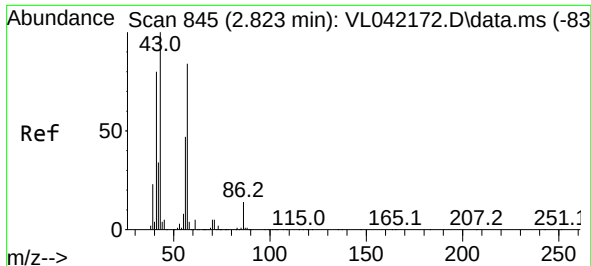
Tgt Ion:	43	Resp:	2280
Ion	Ratio	Lower	Upper
43	100		
86	4.7	5.5	8.3#
42	18.7	8.6	13.0#
44	0.0	6.2	9.4#



#25
Ethyl Acetate
Concen: 0.270 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.003 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

Tgt Ion:	43	Resp:	15237
Ion	Ratio	Lower	Upper
43	100		
45	2.8	8.2	12.2#
61	0.0	7.3	10.9#
70	2.9	7.2	10.8#

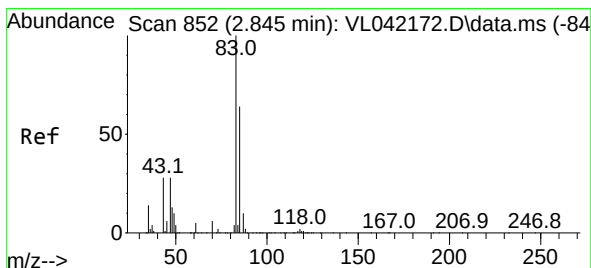
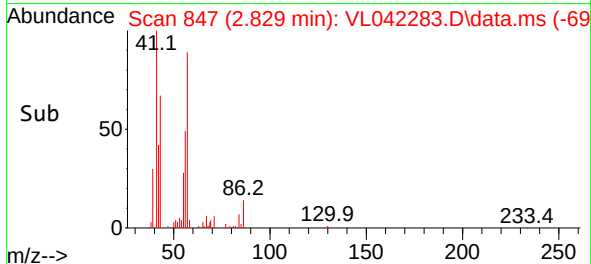
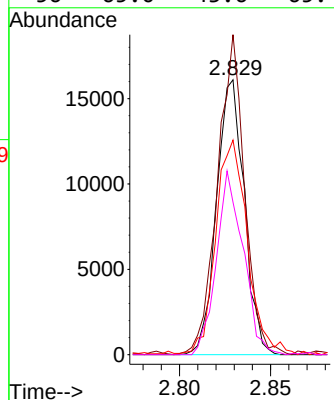
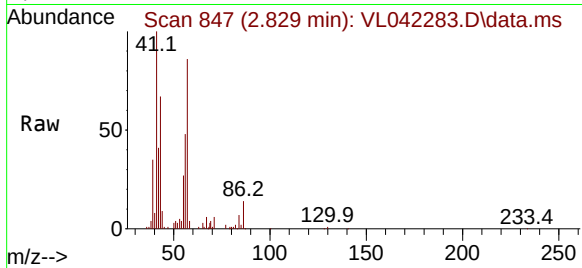




#26
Hexane
Concen: 0.782 ppbv
RT: 2.829 min Scan# 845
Delta R.T. 0.007 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

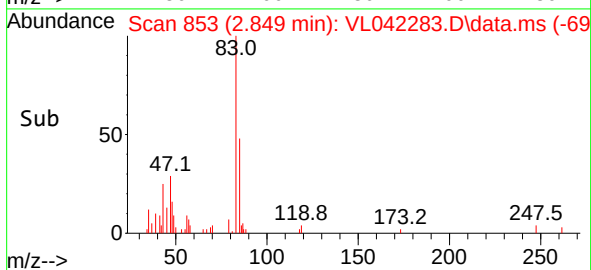
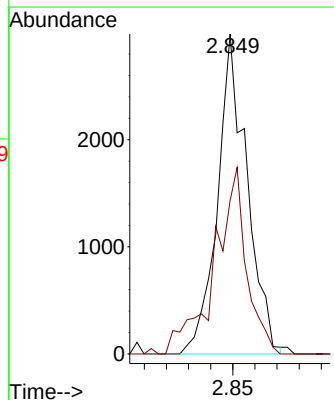
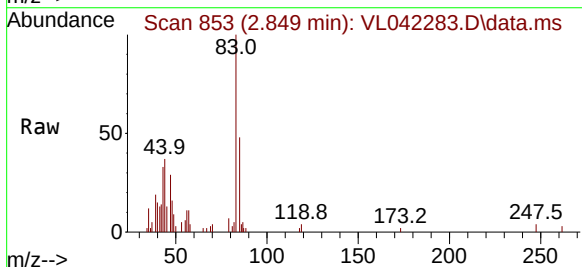
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04012025

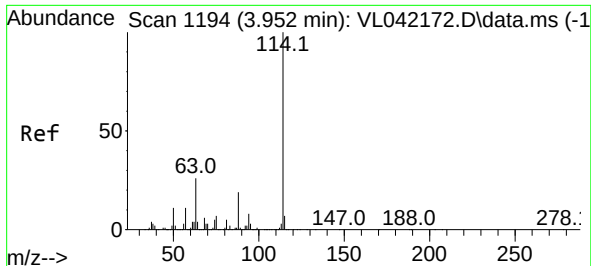
Tgt Ion: 57 Resp: 17021
Ion Ratio Lower Upper
57 100
41 115.7 76.6 114.8#
43 90.5 207.8 311.8#
56 65.0 43.6 65.4



#29
Chloroform
Concen: 0.087 ppbv
RT: 2.849 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

Tgt Ion: 83 Resp: 2769
Ion Ratio Lower Upper
83 100
85 47.9 51.4 77.2#

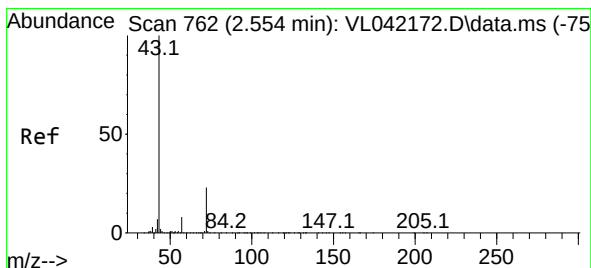
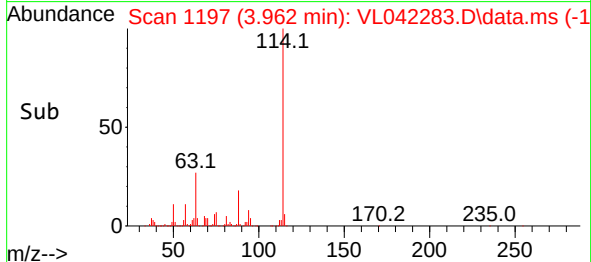
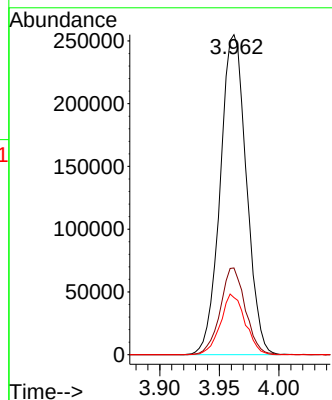
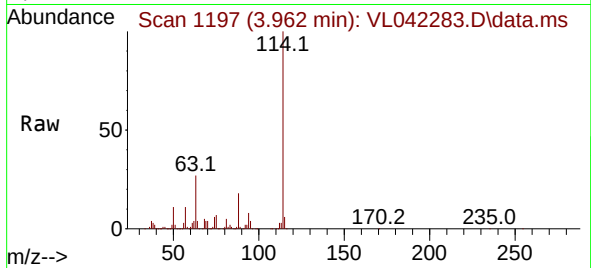




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1194
Delta R.T. 0.010 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

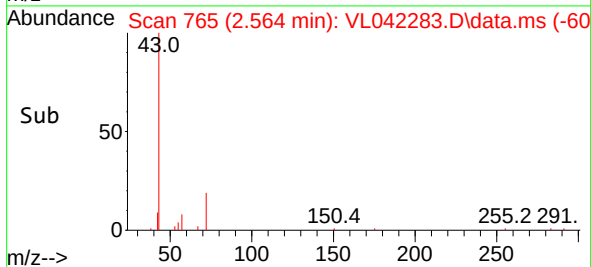
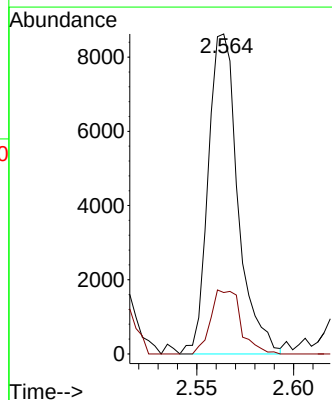
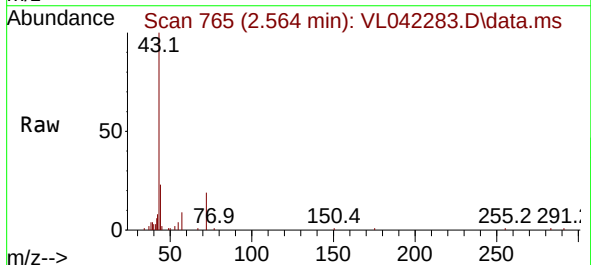
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04012025

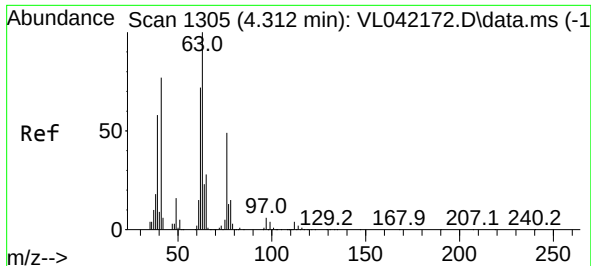
Tgt Ion:114 Resp: 388359
Ion Ratio Lower Upper
114 100
63 26.0 20.7 31.1
88 17.9 15.0 22.4



#34
2-Butanone
Concen: 0.328 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

Tgt Ion: 43 Resp: 9233
Ion Ratio Lower Upper
43 100
72 20.1 18.2 27.2





#39

1,2-Dichloropropane

Concen: 7.205 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.349 min

Lab File: VL042283.D

Acq: 09 Apr 2025 02:51

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-4-04012025

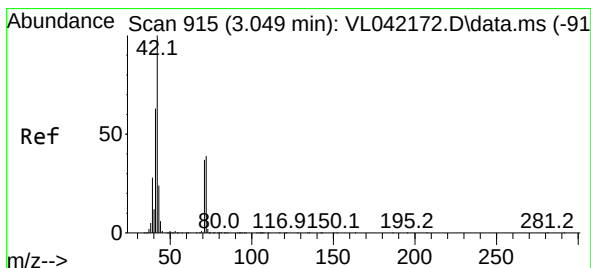
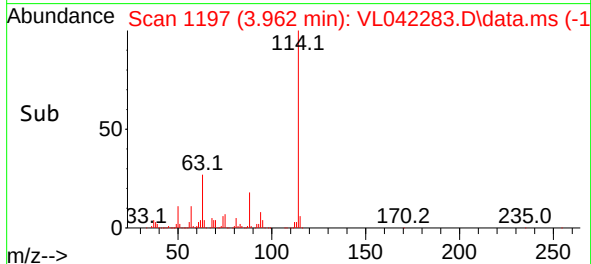
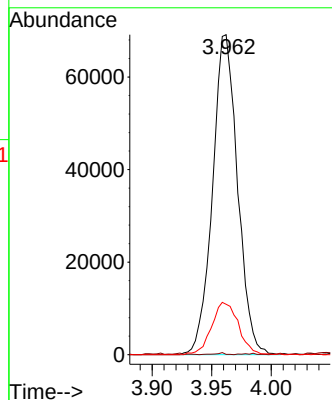
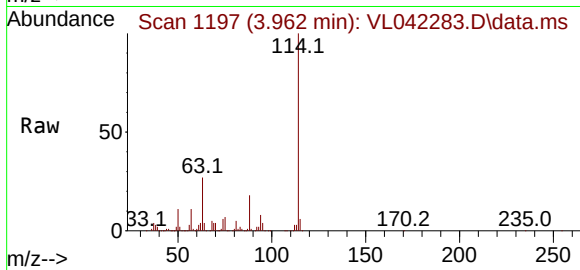
Tgt Ion: 63 Resp: 101030

Ion Ratio Lower Upper

63 100

41 0.0 61.7 92.5#

62 15.8 57.6 86.4#



#41

Tetrahydrofuran

Concen: 0.068 ppbv

RT: 3.072 min Scan# 922

Delta R.T. 0.023 min

Lab File: VL042283.D

Acq: 09 Apr 2025 02:51

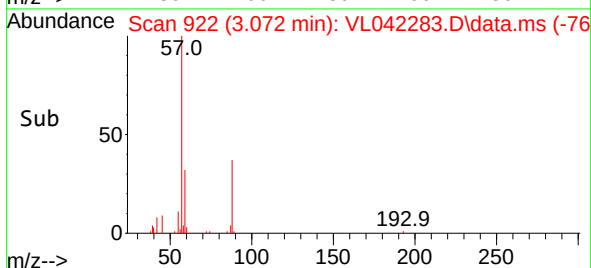
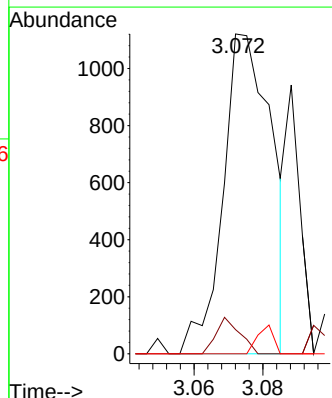
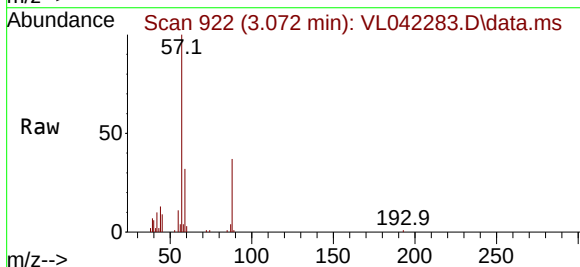
Tgt Ion: 42 Resp: 1102

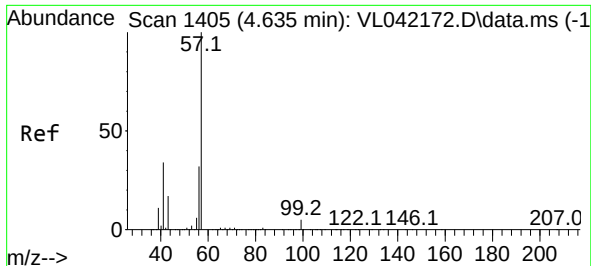
Ion Ratio Lower Upper

42 100

72 5.5 31.4 47.0#

71 0.0 30.2 45.4#

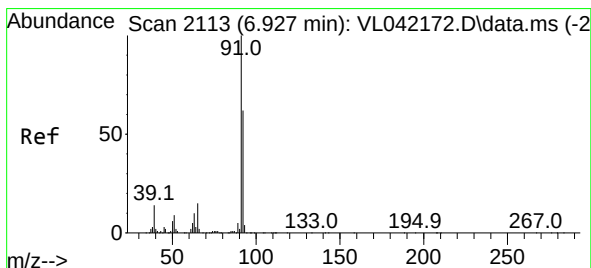
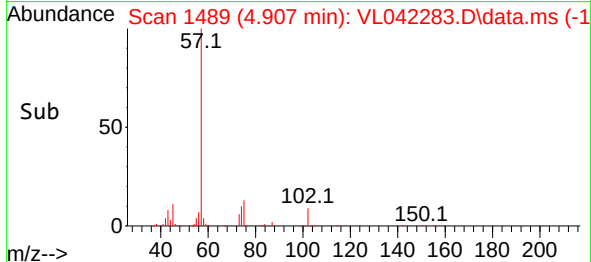
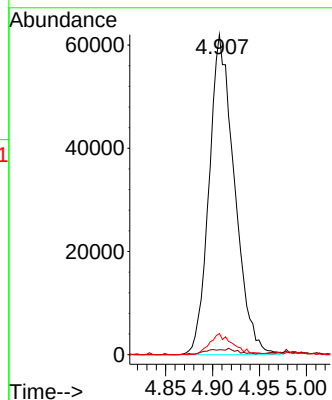
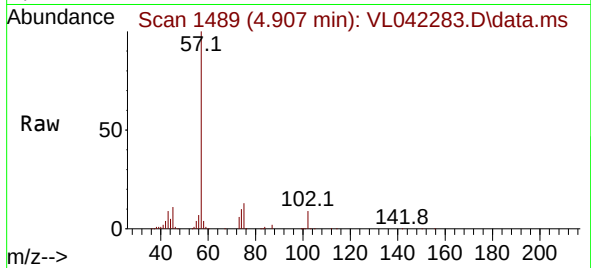




#44
2,2,4-Trimethylpentane
Concen: 1.793 ppbv
RT: 4.907 min Scan# 1405
Delta R.T. 0.272 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

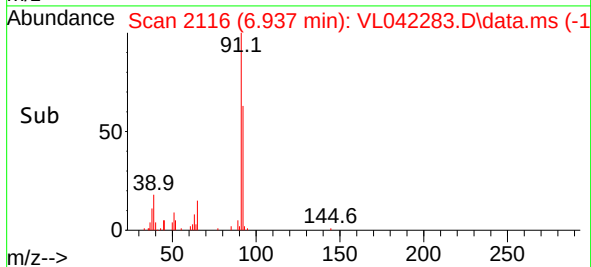
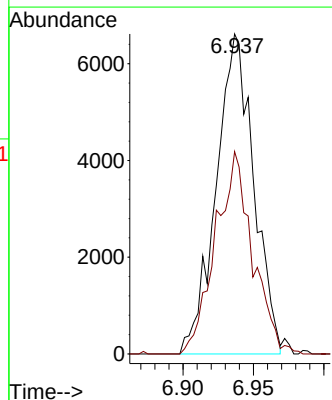
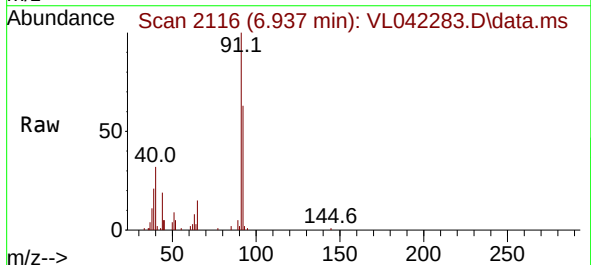
Instrument : MSVOA_1
ClientSampleId : SSSG-B14-4-04012025

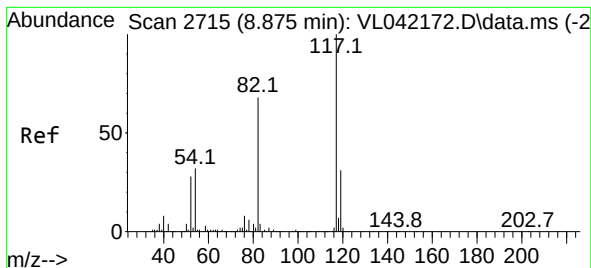
Tgt Ion: 57 Resp: 116682
Ion Ratio Lower Upper
57 100
41 2.4 26.8 40.2#
56 6.2 25.6 38.4#



#53
Toluene
Concen: 0.270 ppbv
RT: 6.937 min Scan# 2116
Delta R.T. 0.010 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

Tgt Ion: 91 Resp: 12300
Ion Ratio Lower Upper
91 100
92 62.5 48.4 72.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 21

Delta R.T. 0.007 min

Lab File: VL042283.D

Acq: 09 Apr 2025 02:51

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-4-04012025

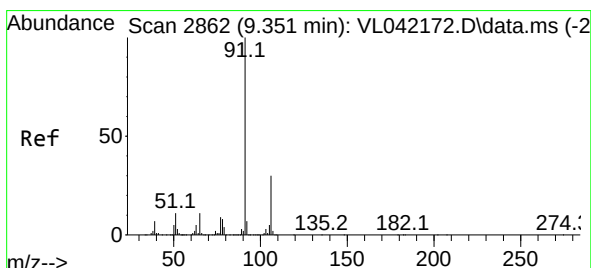
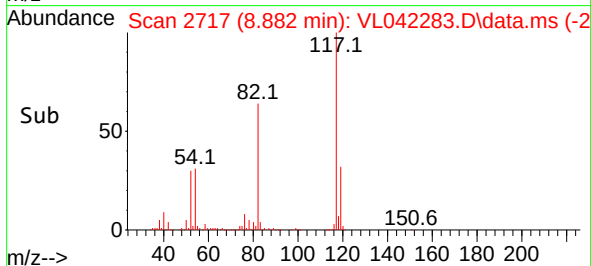
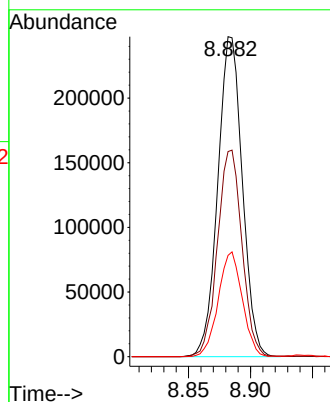
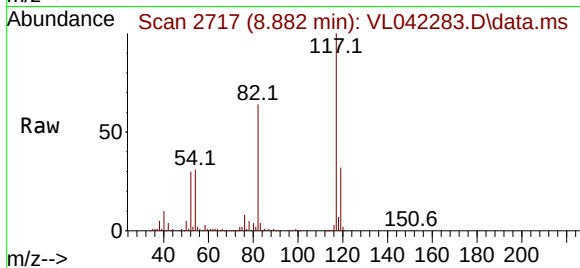
Tgt Ion:117 Resp: 341830

Ion Ratio Lower Upper

117 100

82 64.4 55.8 83.6

119 32.1 25.5 38.3



#58

Ethyl Benzene

Concen: 0.208 ppbv

RT: 9.358 min Scan# 2864

Delta R.T. 0.007 min

Lab File: VL042283.D

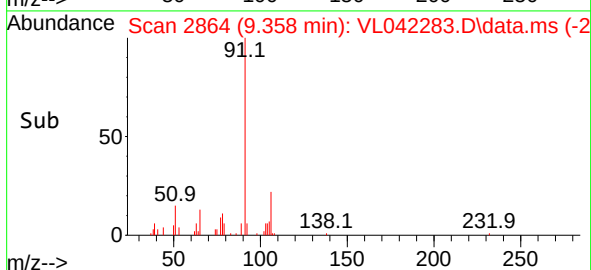
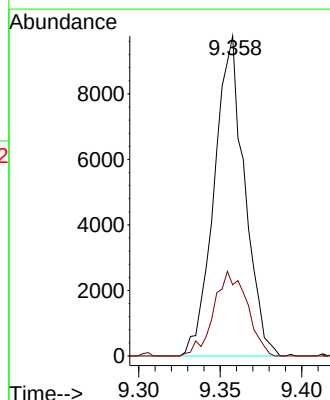
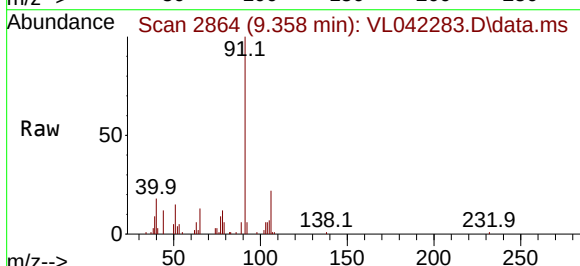
Acq: 09 Apr 2025 02:51

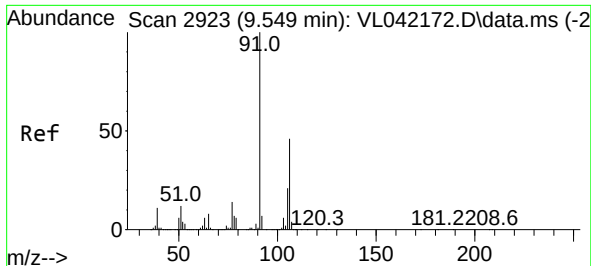
Tgt Ion: 91 Resp: 12642

Ion Ratio Lower Upper

91 100

106 22.2 24.2 36.2#





#59

m/p-Xylene

Concen: 0.825 ppbv

RT: 9.532 min Scan# 2918

Delta R.T. -0.016 min

Lab File: VL042283.D

Acq: 09 Apr 2025 02:51

Instrument :

MSVOA_L

ClientSampleId :

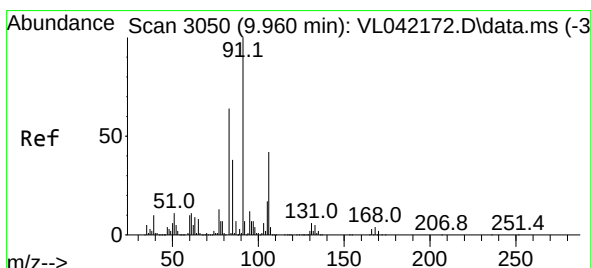
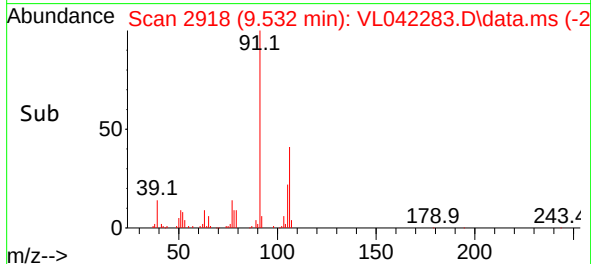
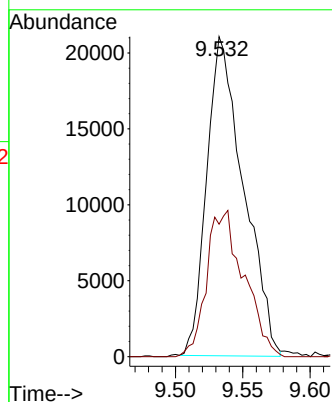
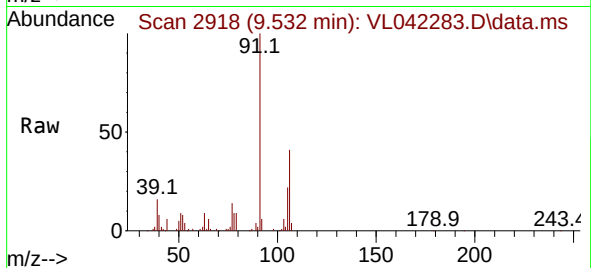
SSSG-B14-4-04012025

Tgt Ion: 91 Resp: 39977

Ion Ratio Lower Upper

91 100

106 46.4 36.4 54.6



#60

o-Xylene

Concen: 0.196 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.007 min

Lab File: VL042283.D

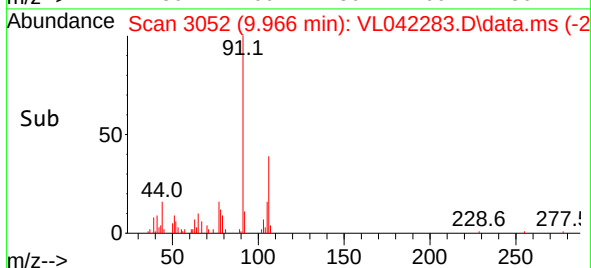
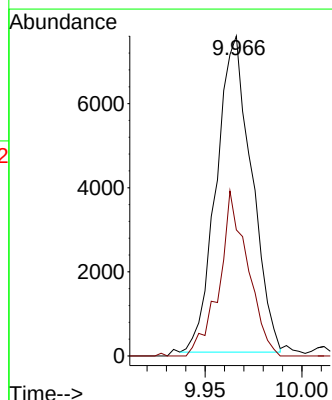
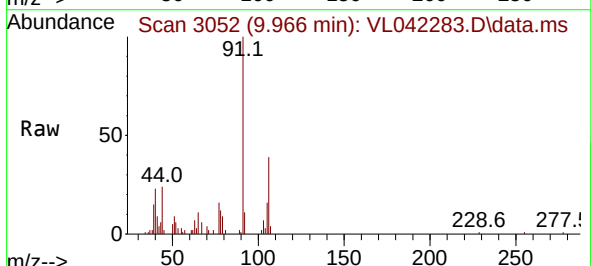
Acq: 09 Apr 2025 02:51

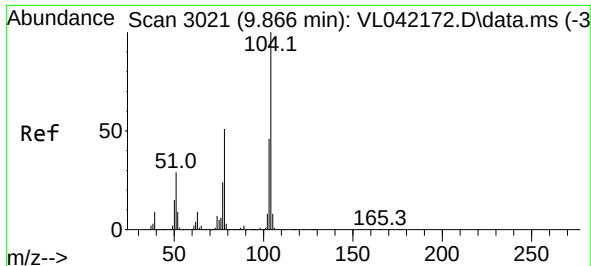
Tgt Ion: 91 Resp: 9522

Ion Ratio Lower Upper

91 100

106 42.3 20.8 62.5





#61

Styrene

Concen: 0.063 ppbv

RT: 9.875 min Scan# 3021

Delta R.T. 0.010 min

Lab File: VL042283.D

Acq: 09 Apr 2025 02:51

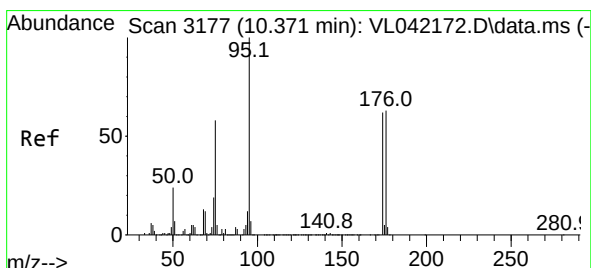
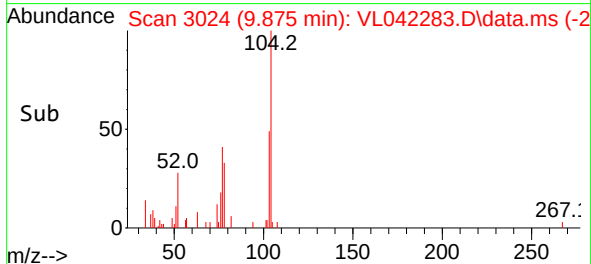
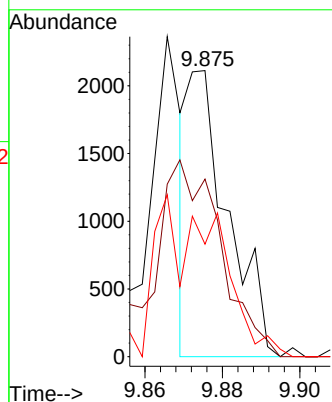
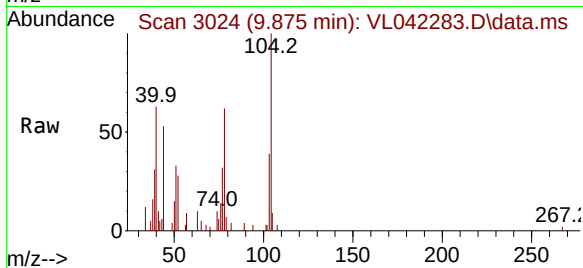
Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-4-04012025

Tgt Ion:104	Resp:	1514
Ion Ratio	Lower	Upper
104	100	
78	0.0	41.8 62.6#
103	0.0	37.0 55.4#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.243 ppbv

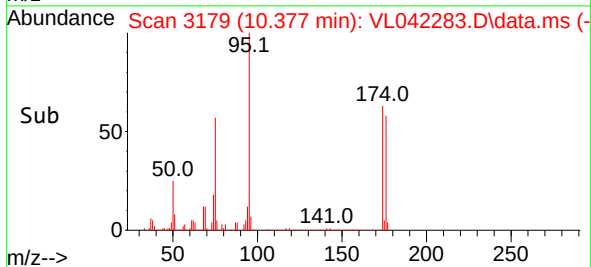
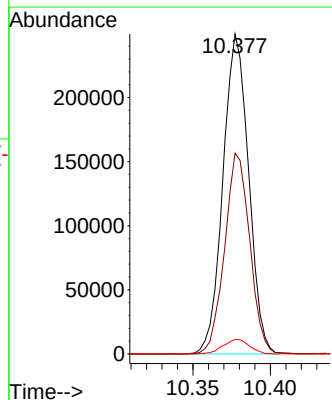
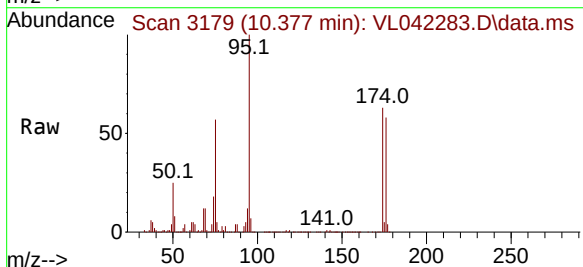
RT: 10.377 min Scan# 3179

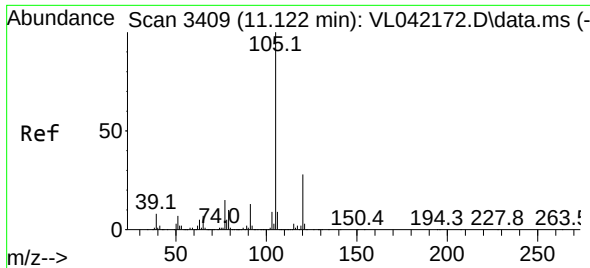
Delta R.T. 0.007 min

Lab File: VL042283.D

Acq: 09 Apr 2025 02:51

Tgt Ion: 95	Resp:	287523
Ion Ratio	Lower	Upper
95	100	
174	61.8	50.6 76.0
175	4.7	3.8 5.6

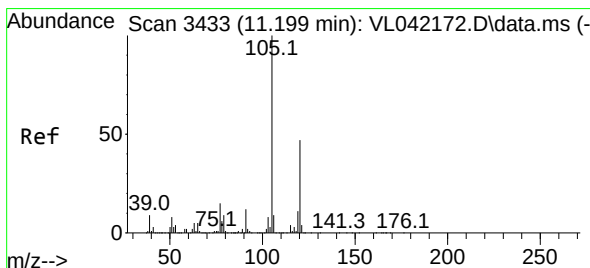
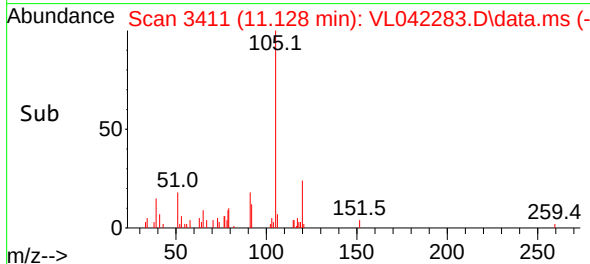
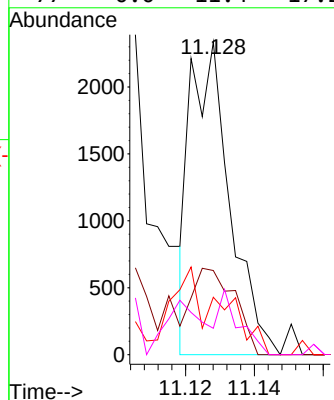
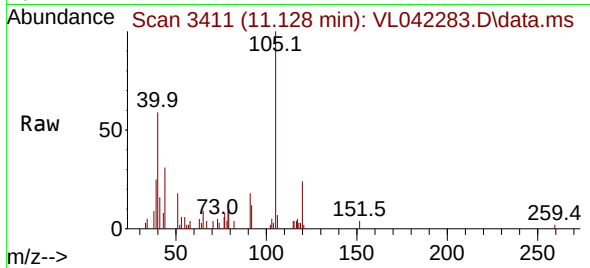




#72
4-Ethyltoluene
Concen: 0.031 ppbv
RT: 11.128 min Scan# 3409
Delta R.T. 0.007 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

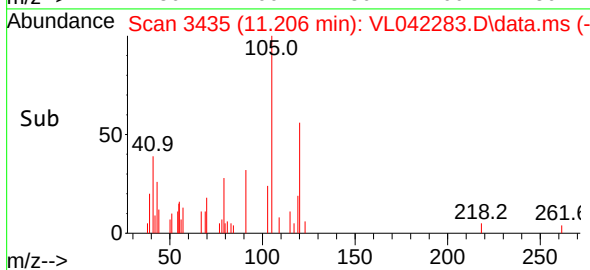
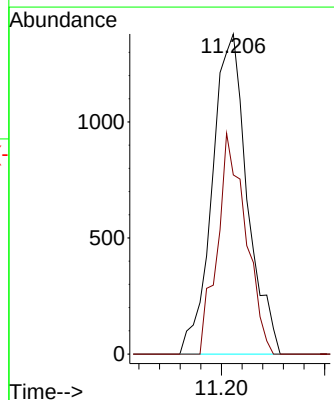
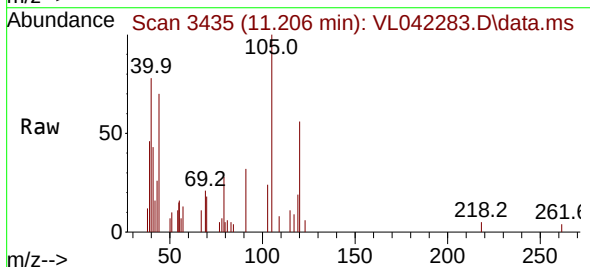
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04012025

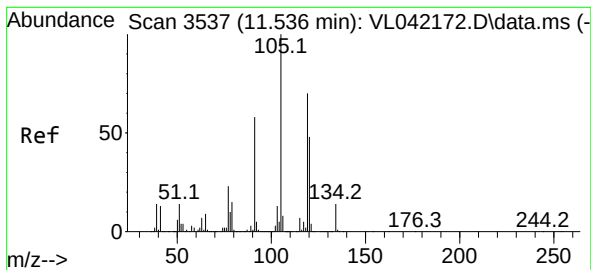
Tgt Ion:	105	Resp:	1856
Ion Ratio	Lower	Upper	
105	100		
120	0.0	23.4	35.0#
91	37.3	10.3	15.5#
77	0.0	11.4	17.2#



#73
1,3,5-Trimethylbenzene
Concen: 0.031 ppbv
RT: 11.206 min Scan# 3435
Delta R.T. 0.007 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

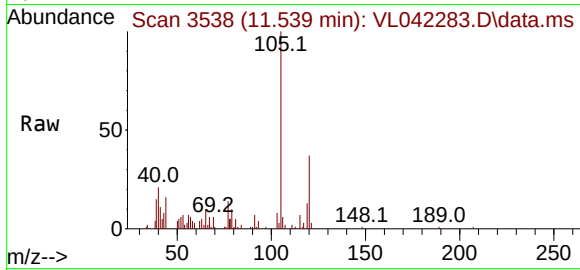
Tgt Ion:	105	Resp:	1627
Ion Ratio	Lower	Upper	
105	100		
120	56.0	37.4	56.0



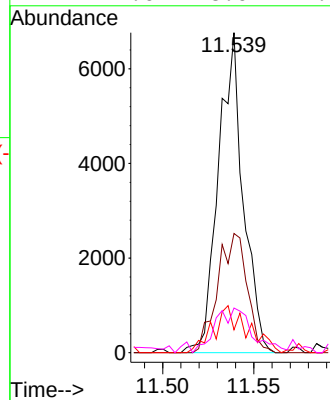
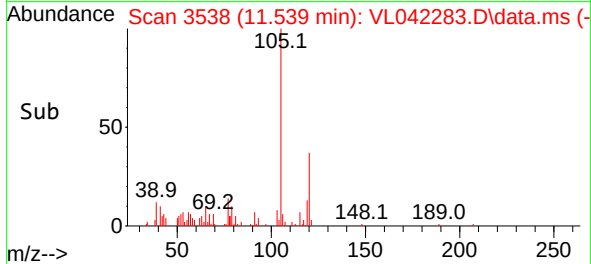


#74
 1,2,4-Trimethylbenzene
 Concen: 0.105 ppbv
 RT: 11.539 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: VL042283.D
 Acq: 09 Apr 2025 02:51

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B14-4-04012025



Tgt Ion:	105	Resp:	6419
Ion	Ratio	Lower	Upper
105	100		
120	37.3	38.6	58.0#
91	7.2	46.2	69.2#
77	17.6	18.6	27.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042284.D
 Acq On : 09 Apr 2025 03:22
 Operator : SY/MD
 Sample : Q1728-03 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-2-04022025

Quant Time: Apr 09 08:28:03 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	2.787	49	156706	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	394605	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	369232	10.000	ppbv	# 0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	337277	11.123	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	111.200%

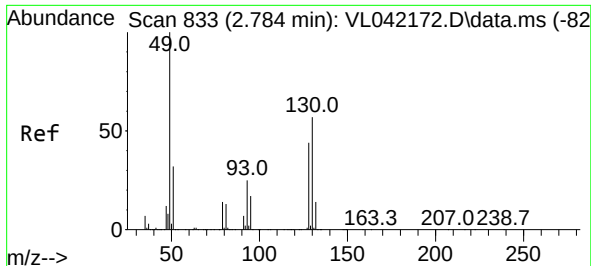
Target Compounds					Qvalue	
4) Chloromethane	1.531	50	309	0.033	ppbv	# 54
9) Propene	1.483	41	3071	0.283	ppbv	# 81
10) Heptane	4.985	43	5285	0.183	ppbv	# 38
13) Ethanol	1.887	45	1920	1.875	ppbv	# 27
15) Acetone	1.835	43	54597	2.491	ppbv	94
16) 1,3-Butadiene	1.602	39	2289	0.214	ppbv	# 39
17) tert-Butyl alcohol	2.046	59	2549	0.093	ppbv	# 91
19) Isopropyl Alcohol	1.887	45	1920	0.155	ppbv	# 1
20) Methylene Chloride	2.059	84	2997	0.367	ppbv	# 85
23) Vinyl Acetate	2.473	43	3119	0.329	ppbv	# 30
25) Ethyl Acetate	2.625	43	6965	0.122	ppbv	# 84
26) Hexane	2.823	57	2005	0.091	ppbv	# 1
27) Carbon Disulfide	2.149	76	14783	0.627	ppbv	# 27
30) Cyclohexane	3.855	84	8272	0.434	ppbv	# 1
34) 2-Butanone	2.560	43	5000	0.175	ppbv	96
39) 1,2-Dichloropropane	4.434	63	1889	0.133	ppbv	# 1
41) Tetrahydrofuran	3.182	42	2330	0.141	ppbv	# 37
42) Bromodichloromethane	4.522	83	79792	2.584	ppbv	# 25
43) Methyl Methacrylate	4.593	69	153486	9.268	ppbv	# 28
44) 2,2,4-Trimethylpentane	4.642	57	84539	1.279	ppbv	# 42
47) 1,1,2-Trichloroethane	6.480	97	223694	14.853	ppbv	# 46
50) 4-Methyl-2-Pentanone	5.791	43	483677	10.666	ppbv	89
51) 2-Hexanone	7.461	43	1931577	51.871	ppbv	# 35
53) Toluene	6.933	91	26400	0.569	ppbv	99
57) Chlorobenzene	8.872	112	288701	8.243	ppbv	# 34
58) Ethyl Benzene	9.364	91	76723	1.170	ppbv	99
59) m/p-Xylene	9.539	91	512888	9.793	ppbv	# 79
60) o-Xylene	9.966	91	523601	9.973	ppbv	97
62) Isopropylbenzene	10.542	105	95094	1.211	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.953	83	12548	0.393	ppbv	# 1
64) n-propylbenzene	10.992	120	12424	0.615	ppbv	65
65) tert-Butylbenzene	11.536	119	44016	0.606	ppbv	# 78
66) Benzyl Chloride	11.639	91	818	0.106	ppbv	# 68
67) sec-Butylbenzene	11.769	105	17547	0.174	ppbv	# 91
69) p-Isopropyltoluene	11.927	119	10964	0.126	ppbv	93
71) 2-Chlorotoluene	10.992	91	61255	1.005	ppbv	79
72) 4-Ethyltoluene	11.128	105	121091	1.852	ppbv	# 63
73) 1,3,5-Trimethylbenzene	11.205	105	259320	4.542	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	351232	5.340	ppbv	# 65

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

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

The chromatogram displays a series of peaks corresponding to different chemical compounds. The x-axis represents time in minutes, ranging from 1.00 to 21.00. The y-axis represents abundance, ranging from 0 to 1.6e+07. The following table lists the labeled compounds and their approximate retention times:

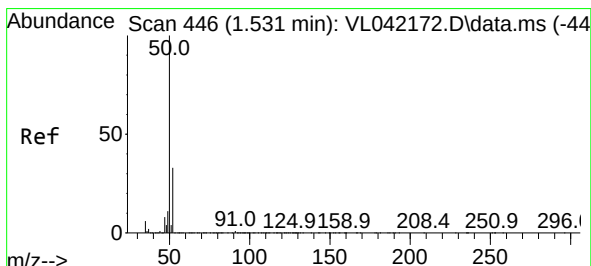
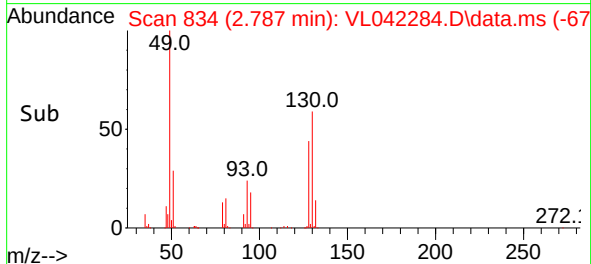
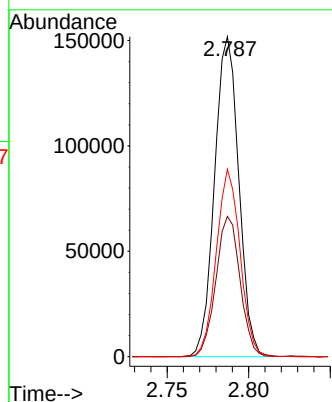
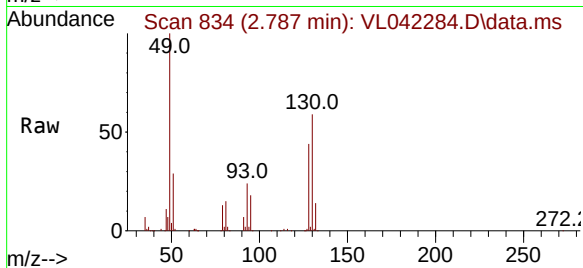
Compound	Approximate Retention Time (min)
1,3-Bisphenol A	1.5
2,3-Bisphenol A	1.8
1,4-Bisphenol A	2.1
1,5-Bisphenol A	2.4
1,6-Bisphenol A	2.7
1,7-Bisphenol A	3.0
1,8-Bisphenol A	3.3
1,9-Bisphenol A	3.6
1,10-Bisphenol A	3.9
1,11-Bisphenol A	4.2
1,12-Bisphenol A	4.5
1,13-Bisphenol A	4.8
1,14-Bisphenol A	5.1
1,15-Bisphenol A	5.4
1,16-Bisphenol A	5.7
1,17-Bisphenol A	6.0
1,18-Bisphenol A	6.3
1,19-Bisphenol A	6.6
1,20-Bisphenol A	6.9
1,21-Bisphenol A	7.2
1,22-Bisphenol A	7.5
1,23-Bisphenol A	7.8
1,24-Bisphenol A	8.1
1,25-Bisphenol A	8.4
1,26-Bisphenol A	8.7
1,27-Bisphenol A	9.0
1,28-Bisphenol A	9.3
1,29-Bisphenol A	9.6
1,30-Bisphenol A	9.9
1,31-Bisphenol A	10.2
1,32-Bisphenol A	10.5
1,33-Bisphenol A	10.8
1,34-Bisphenol A	11.1
1,35-Bisphenol A	11.4
1,36-Bisphenol A	11.7
1,37-Bisphenol A	12.0
1,38-Bisphenol A	12.3
1,39-Bisphenol A	12.6
1,40-Bisphenol A	12.9
1,41-Bisphenol A	13.2
1,42-Bisphenol A	13.5
1,43-Bisphenol A	13.8
1,44-Bisphenol A	14.1
1,45-Bisphenol A	14.4
1,46-Bisphenol A	14.7
1,47-Bisphenol A	15.0
1,48-Bisphenol A	15.3
1,49-Bisphenol A	15.6
1,50-Bisphenol A	15.9
1,51-Bisphenol A	16.2
1,52-Bisphenol A	16.5
1,53-Bisphenol A	16.8
1,54-Bisphenol A	17.1
1,55-Bisphenol A	17.4
1,56-Bisphenol A	17.7
1,57-Bisphenol A	18.0
1,58-Bisphenol A	18.3
1,59-Bisphenol A	18.6
1,60-Bisphenol A	18.9
1,61-Bisphenol A	19.2
1,62-Bisphenol A	19.5
1,63-Bisphenol A	19.8
1,64-Bisphenol A	20.1
1,65-Bisphenol A	20.4
1,66-Bisphenol A	20.7
1,67-Bisphenol A	21.0



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

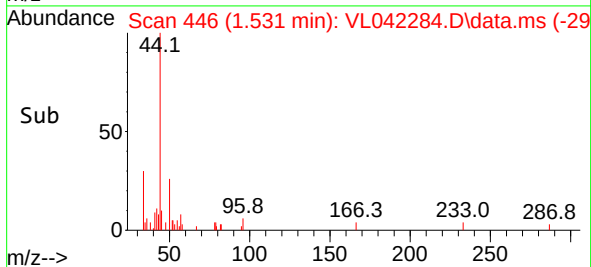
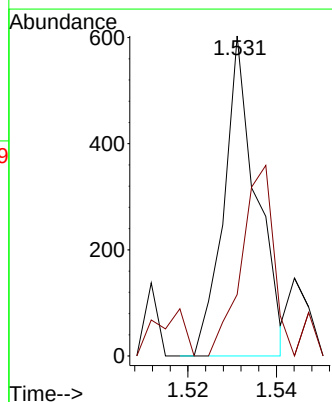
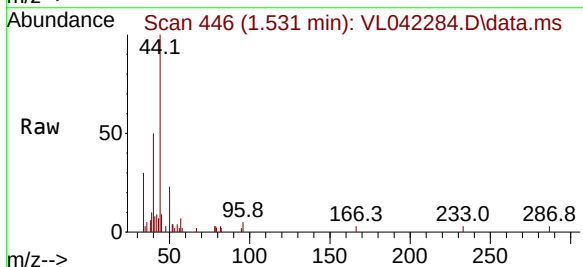
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

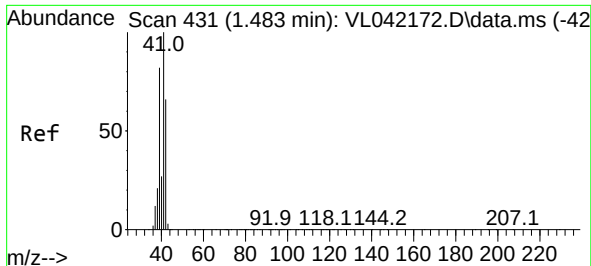
Tgt Ion: 49 Resp: 156706
Ion Ratio Lower Upper
49 100
128 43.8 22.9 68.5
130 57.5 28.8 86.4



#4
Chloromethane
Concen: 0.033 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

Tgt Ion: 50 Resp: 309
Ion Ratio Lower Upper
50 100
52 6.6 26.1 39.1#





#9

Propene

Concen: 0.283 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042284.D

Acq: 09 Apr 2025 03:22

Instrument :

MSVOA_L

ClientSampleId :

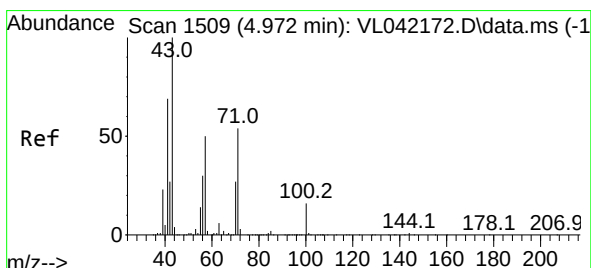
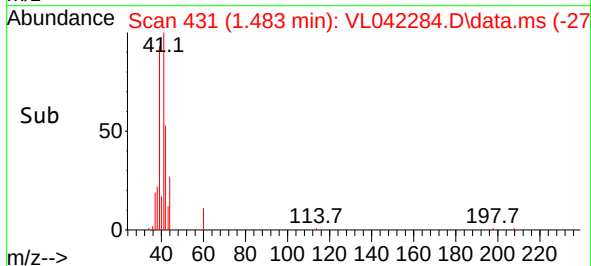
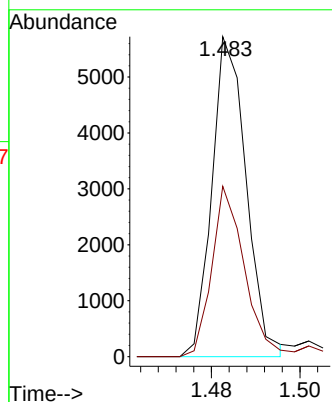
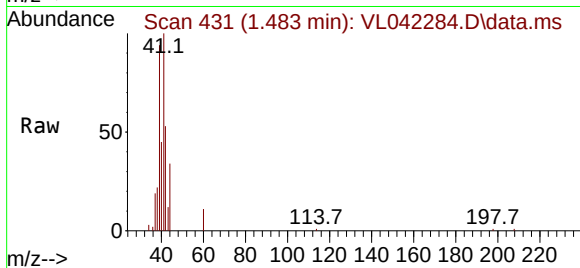
SSSG-B2-2-04022025

Tgt Ion: 41 Resp: 3071

Ion Ratio Lower Upper

41 100

42 53.9 55.4 83.2#



#10

Heptane

Concen: 0.183 ppbv

RT: 4.985 min Scan# 1513

Delta R.T. 0.013 min

Lab File: VL042284.D

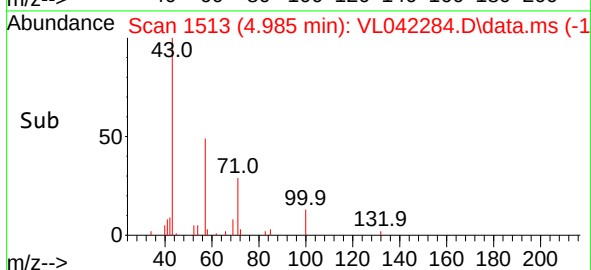
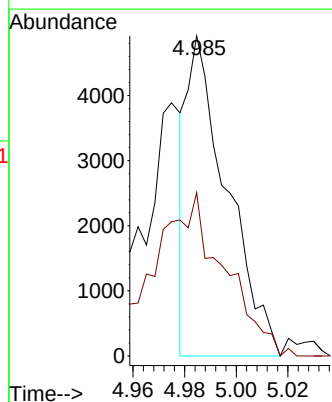
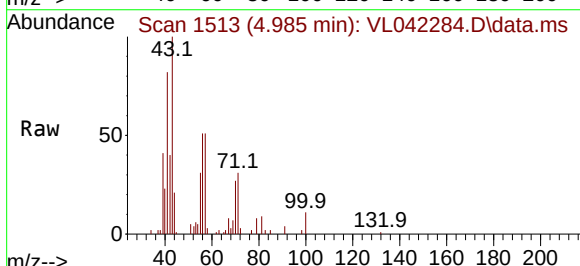
Acq: 09 Apr 2025 03:22

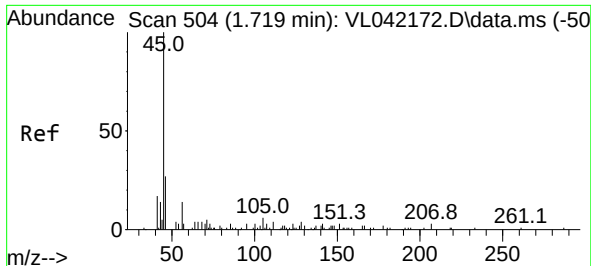
Tgt Ion: 43 Resp: 5285

Ion Ratio Lower Upper

43 100

57 91.8 39.4 59.2#

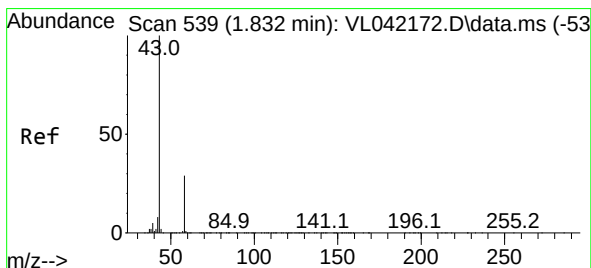
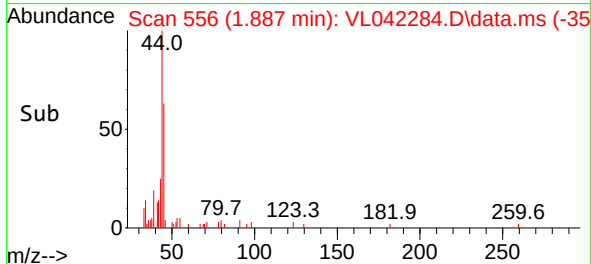
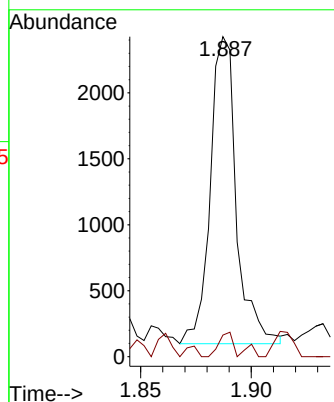
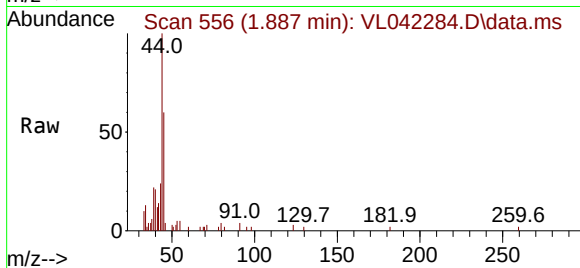




#13
Ethanol
Concen: 1.875 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.168 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

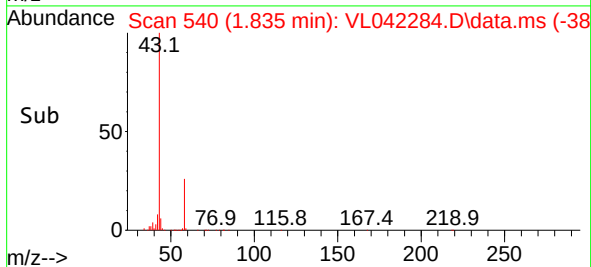
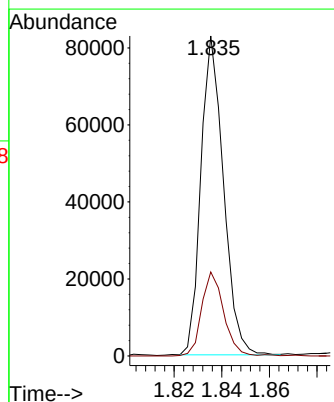
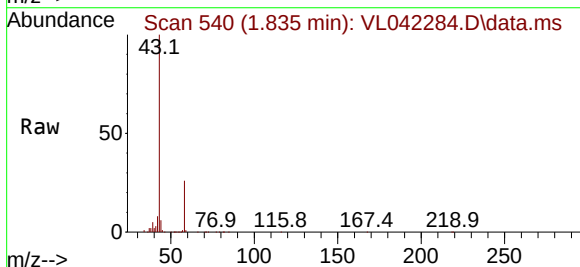
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

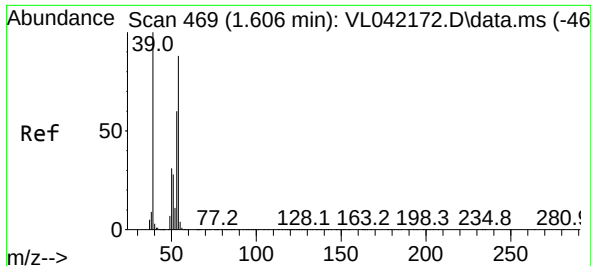
Tgt Ion: 45 Resp: 1920
Ion Ratio Lower Upper
45 100
46 0.0 20.2 80.8#



#15
Acetone
Concen: 2.491 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

Tgt Ion: 43 Resp: 54597
Ion Ratio Lower Upper
43 100
58 26.0 23.2 34.8

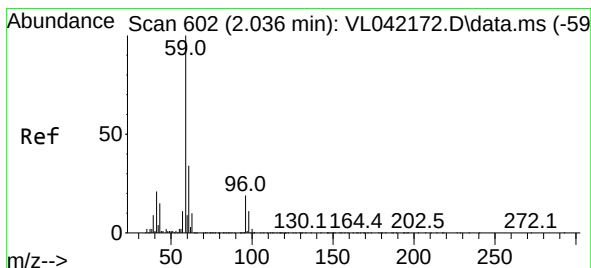
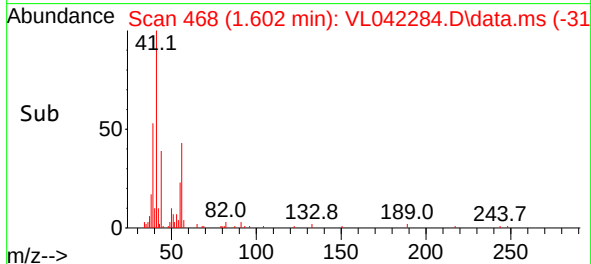
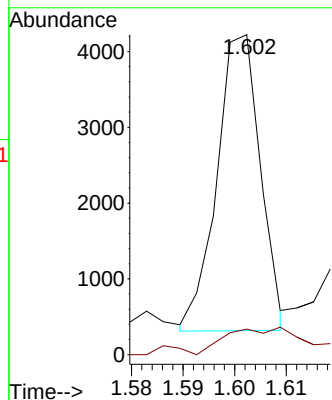
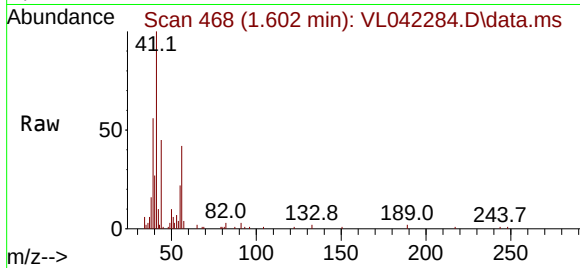




#16
1,3-Butadiene
Concen: 0.214 ppbv
RT: 1.602 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

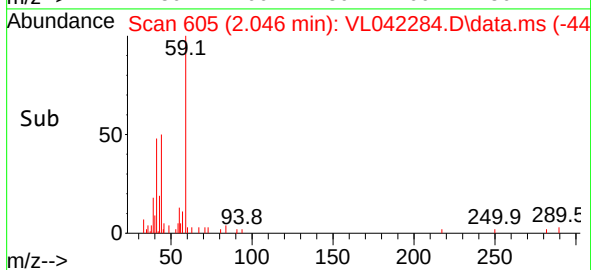
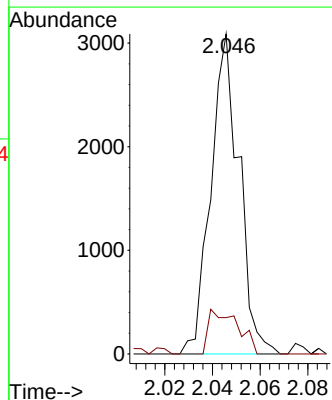
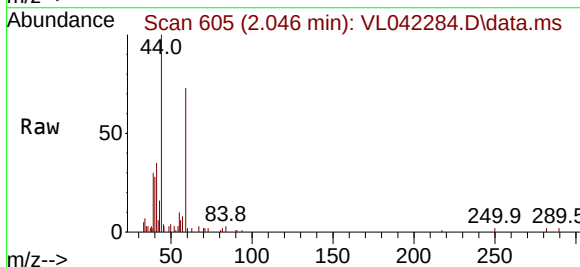
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B2-2-04022025

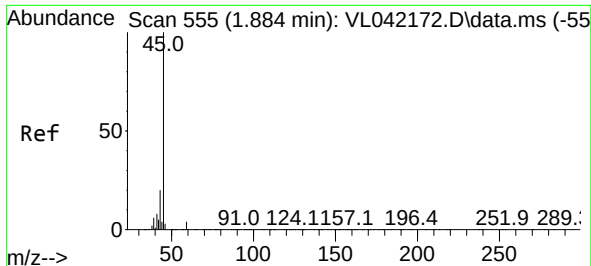
Tgt Ion: 39 Resp: 2289
Ion Ratio Lower Upper
39 100
54 23.8 60.7 91.1#



#17
tert-Butyl alcohol
Concen: 0.093 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.009 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

Tgt Ion: 59 Resp: 2549
Ion Ratio Lower Upper
59 100
57 14.4 8.9 13.3#

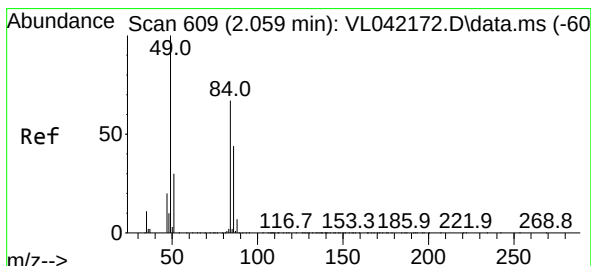
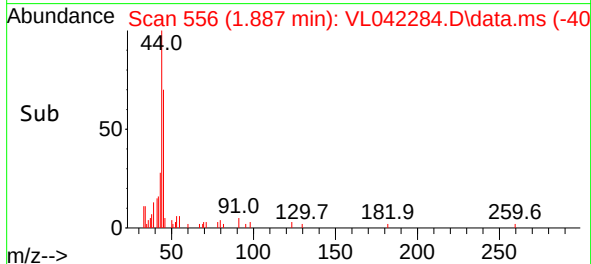
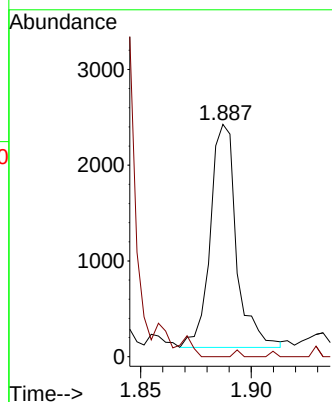
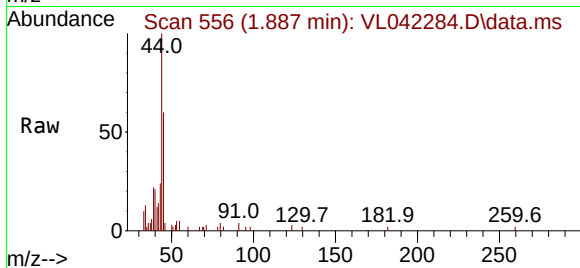




#19
Isopropyl Alcohol
Concen: 0.155 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

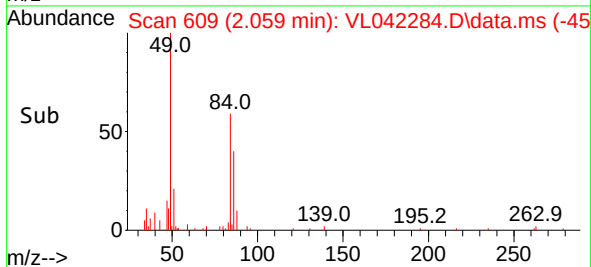
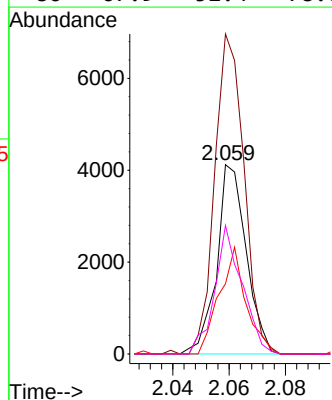
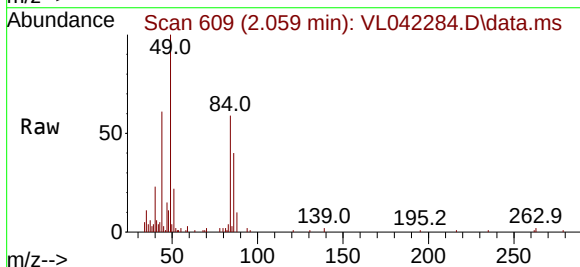
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

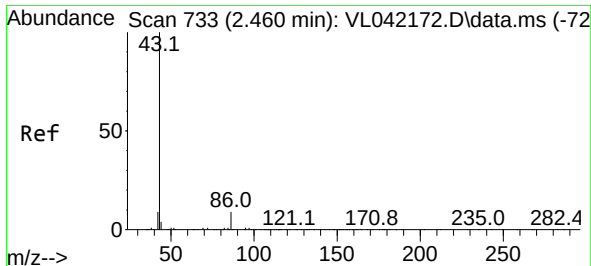
Tgt Ion: 45 Resp: 1920
Ion Ratio Lower Upper
45 100
58 739.1 36.9 55.3#



#20
Methylene Chloride
Concen: 0.367 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

Tgt Ion: 84 Resp: 2997
Ion Ratio Lower Upper
84 100
49 176.5 120.2 180.4
51 37.1 37.4 56.0#
86 67.9 52.4 78.6

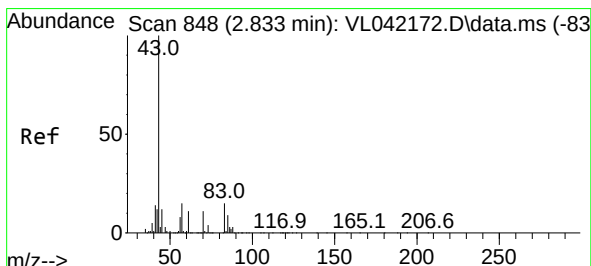
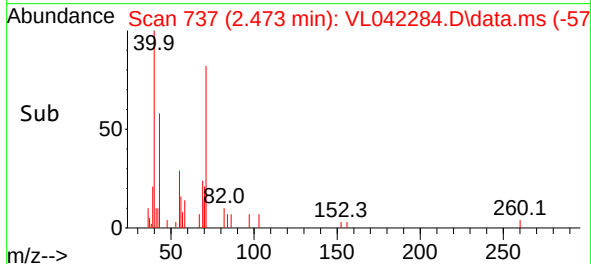
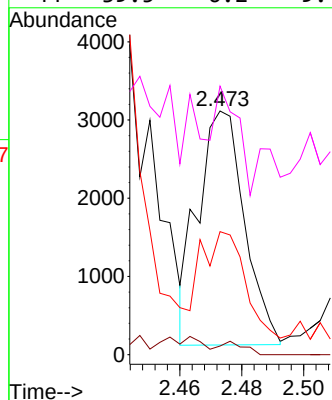
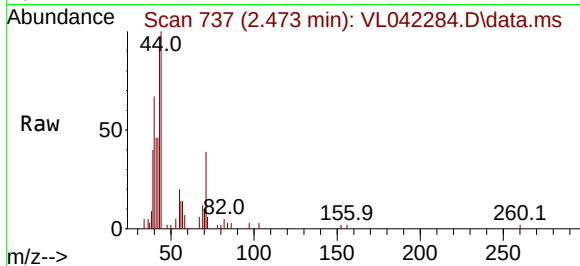




#23
Vinyl Acetate
Concen: 0.329 ppbv
RT: 2.473 min Scan# 713
Delta R.T. 0.013 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

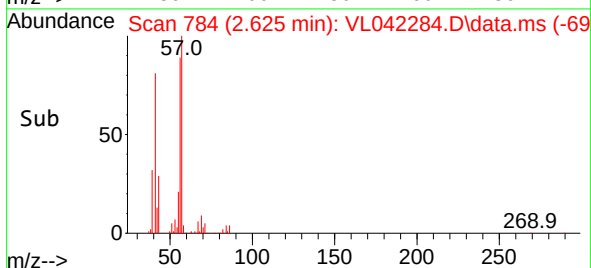
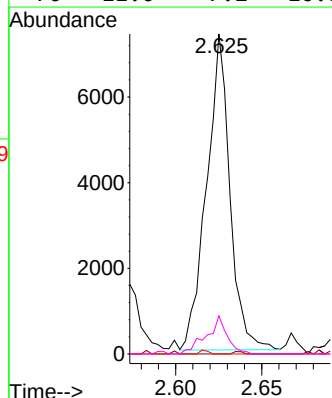
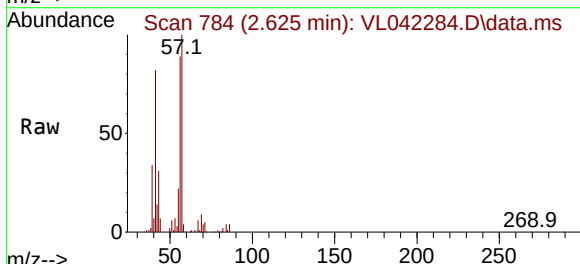
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B2-2-04022025

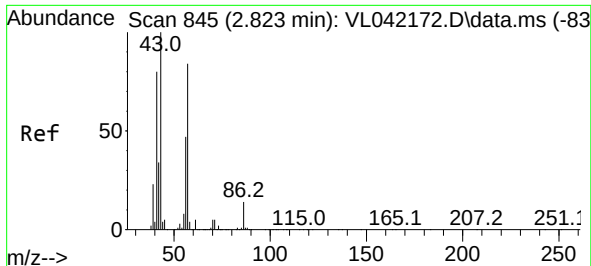
Tgt Ion:	43	Resp:	3119
Ion	Ratio	Lower	Upper
43	100		
86	3.7	5.5	8.3#
42	46.1	8.6	13.0#
44	39.5	6.2	9.4#



#25
Ethyl Acetate
Concen: 0.122 ppbv
RT: 2.625 min Scan# 784
Delta R.T. -0.207 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

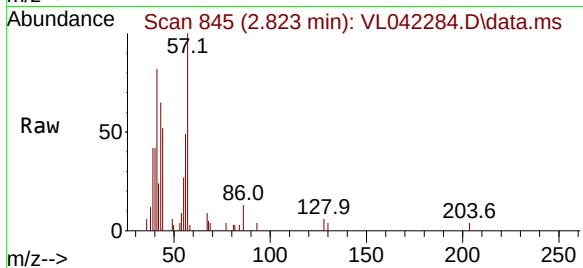
Tgt Ion:	43	Resp:	6965
Ion	Ratio	Lower	Upper
43	100		
45	3.4	8.2	12.2#
61	0.4	7.3	10.9#
70	11.0	7.2	10.8#



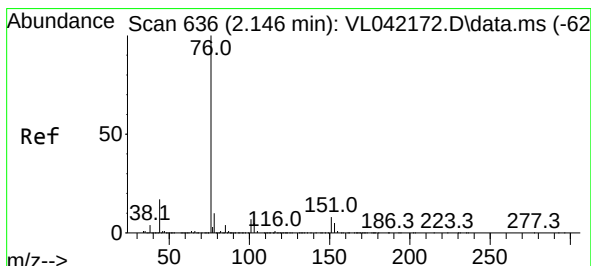
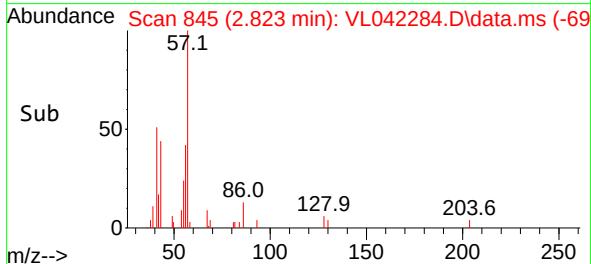
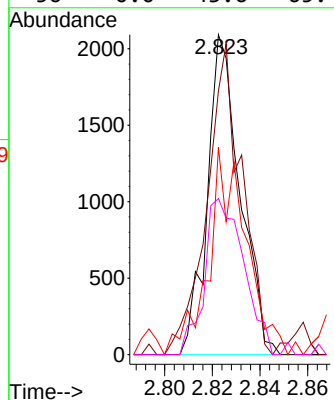


#26
Hexane
Concen: 0.091 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

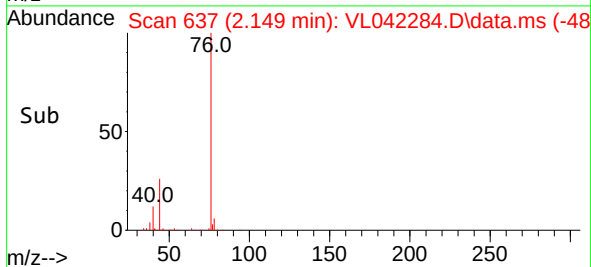
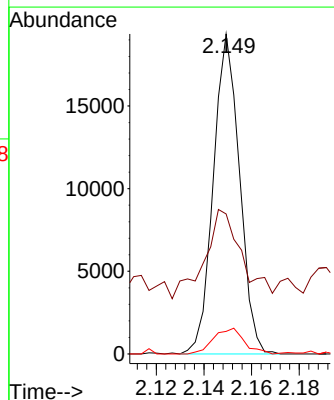
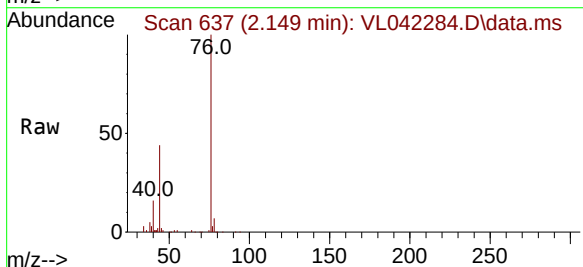


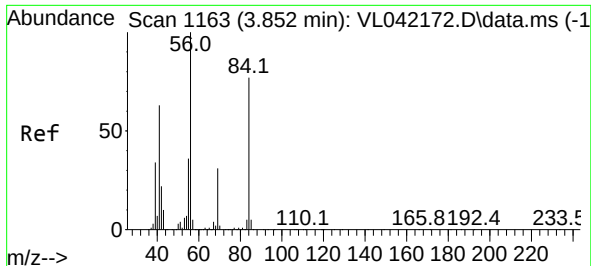
Tgt Ion:	57	Resp:	2005
Ion	Ratio	Lower	Upper
57	100		
41	110.2	76.6	114.8
43	0.0	207.8	311.8#
56	0.0	43.6	65.4#



#27
Carbon Disulfide
Concen: 0.627 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

Tgt Ion:	76	Resp:	14783
Ion	Ratio	Lower	Upper
76	100		
44	70.3	14.7	22.1#
78	9.7	9.3	13.9

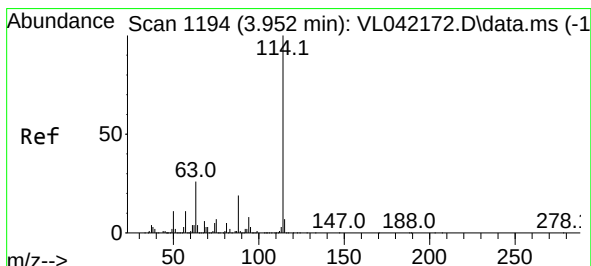
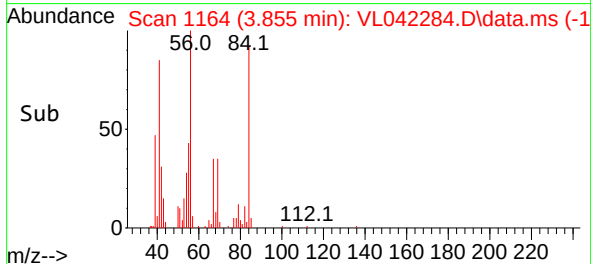
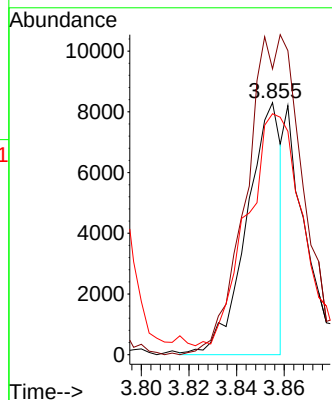
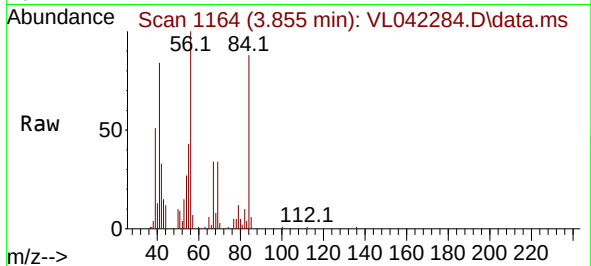




#30
Cyclohexane
Concen: 0.434 ppbv
RT: 3.855 min Scan# 1163
Delta R.T. 0.003 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

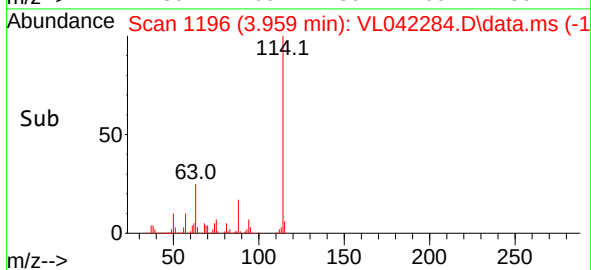
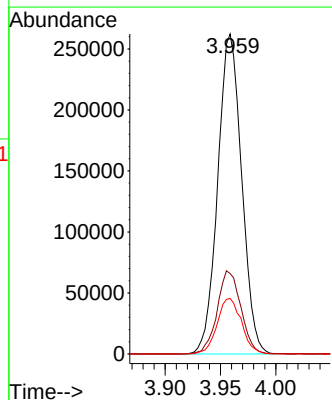
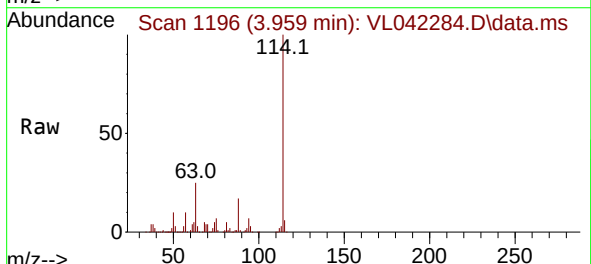
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

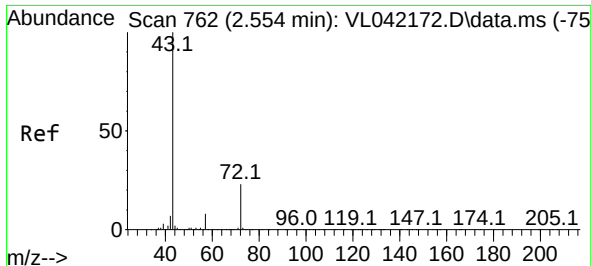
Tgt Ion: 84 Resp: 8272
Ion Ratio Lower Upper
84 100
56 0.0 102.8 154.2#
41 0.0 66.5 99.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.006 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

Tgt Ion: 114 Resp: 394605
Ion Ratio Lower Upper
114 100
63 25.8 20.7 31.1
88 17.6 15.0 22.4

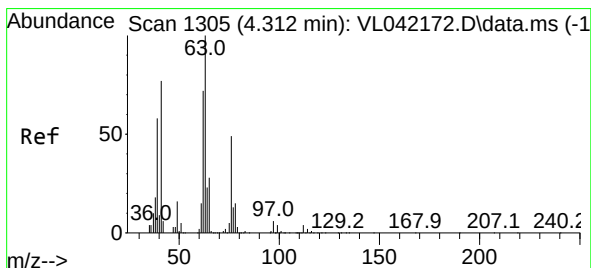
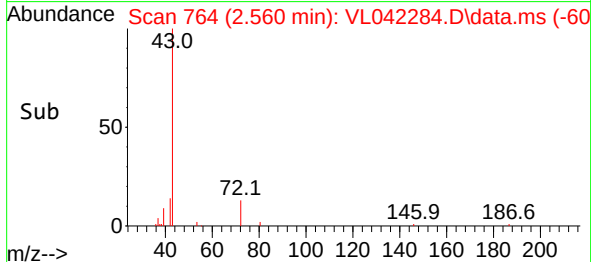
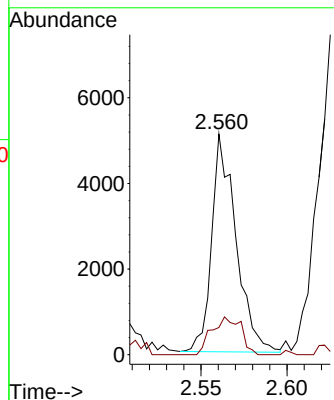
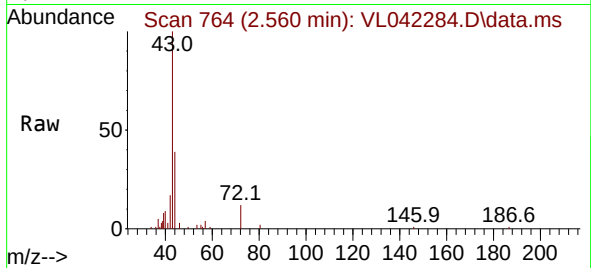




#34
2-Butanone
Concen: 0.175 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.006 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

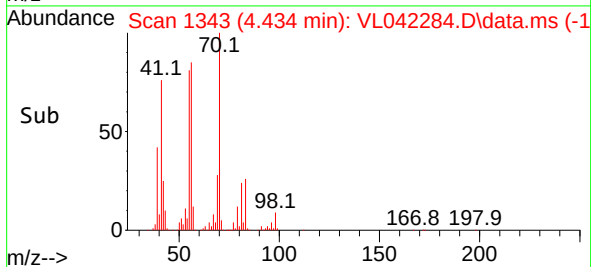
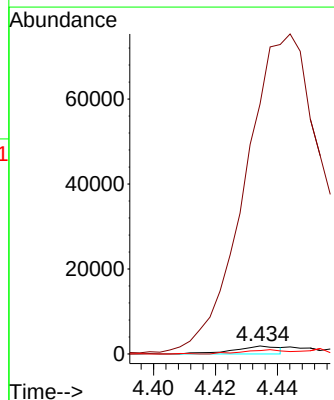
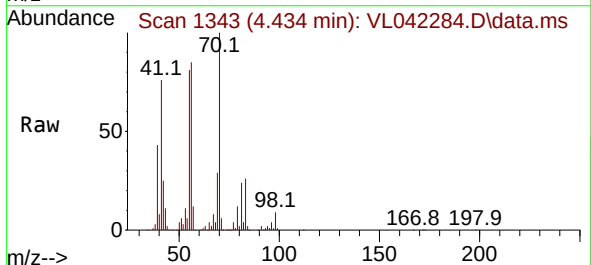
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

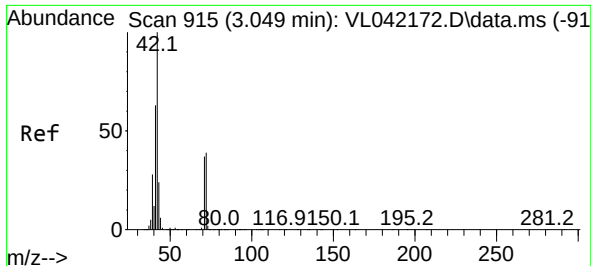
Tgt Ion: 43 Resp: 5000
Ion Ratio Lower Upper
43 100
72 20.8 18.2 27.2



#39
1,2-Dichloropropane
Concen: 0.133 ppbv
RT: 4.434 min Scan# 1343
Delta R.T. 0.123 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

Tgt Ion: 63 Resp: 1889
Ion Ratio Lower Upper
63 100
41 3034.1 61.7 92.5#
62 36.7 57.6 86.4#





#41

Tetrahydrofuran

Concen: 0.141 ppbv

RT: 3.182 min Scan# 915

Delta R.T. 0.132 min

Lab File: VL042284.D

Acq: 09 Apr 2025 03:22

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-2-04022025

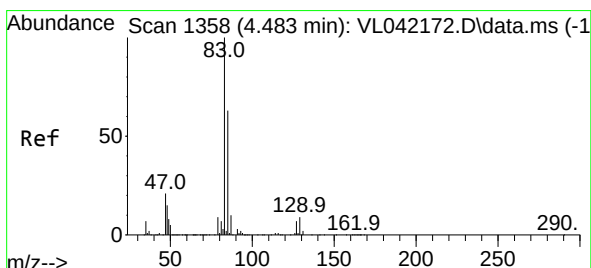
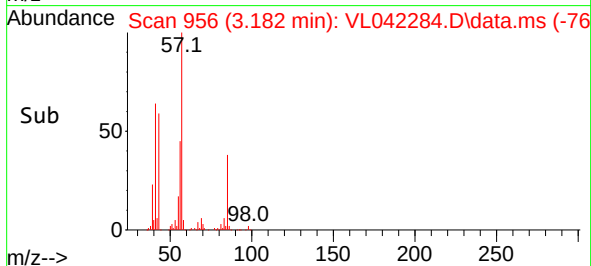
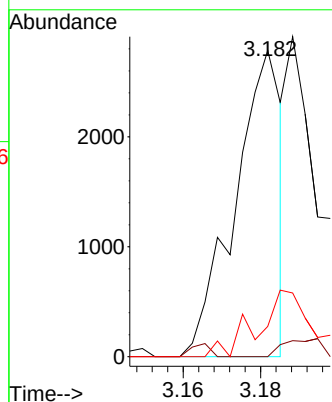
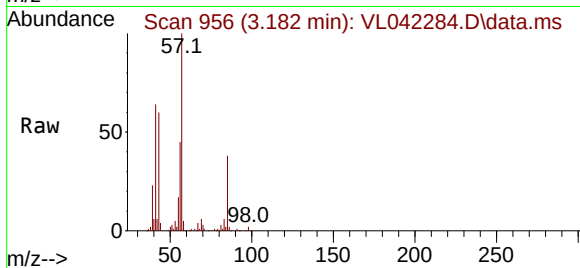
Tgt Ion: 42 Resp: 2330

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 0.0 30.2 45.4#



#42

Bromodichloromethane

Concen: 2.584 ppbv

RT: 4.522 min Scan# 1370

Delta R.T. 0.039 min

Lab File: VL042284.D

Acq: 09 Apr 2025 03:22

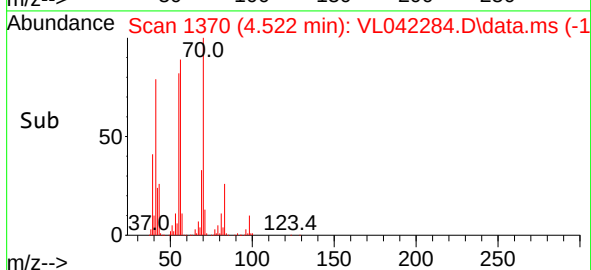
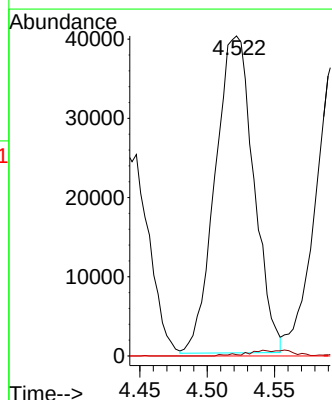
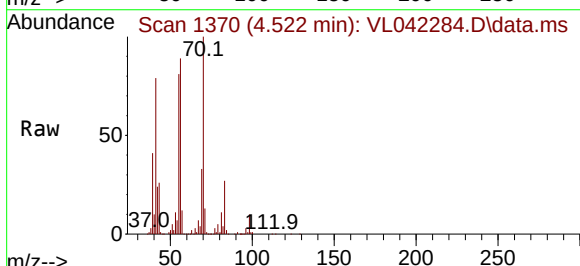
Tgt Ion: 83 Resp: 79792

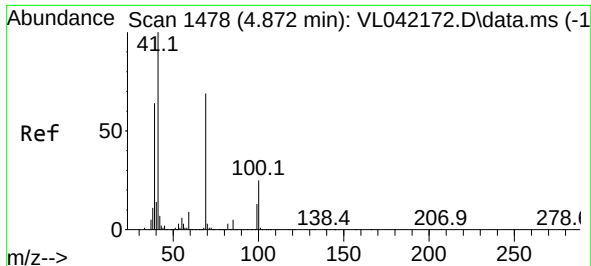
Ion Ratio Lower Upper

83 100

85 0.4 50.5 75.7#

127 0.0 5.9 8.9#

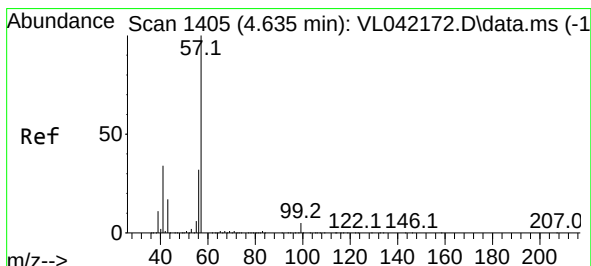
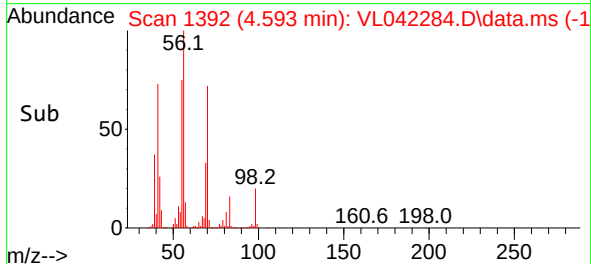
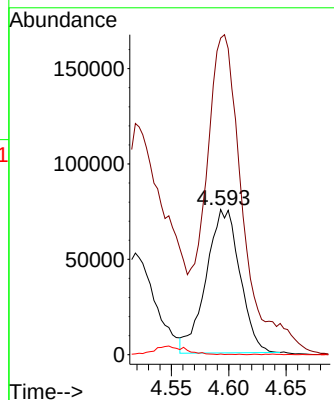
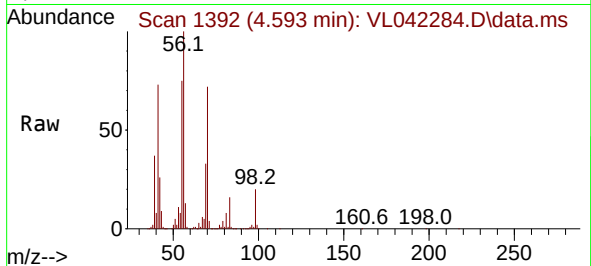




#43
Methyl Methacrylate
Concen: 9.268 ppbv
RT: 4.593 min Scan# 11
Delta R.T. -0.279 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

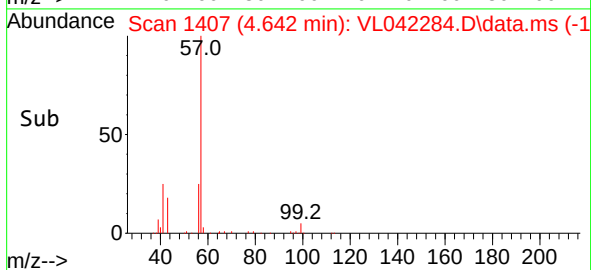
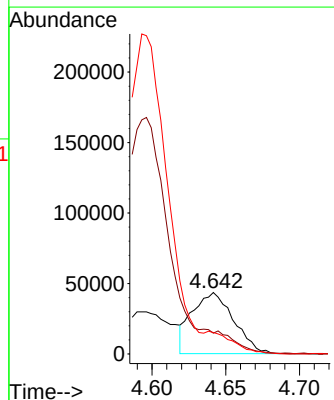
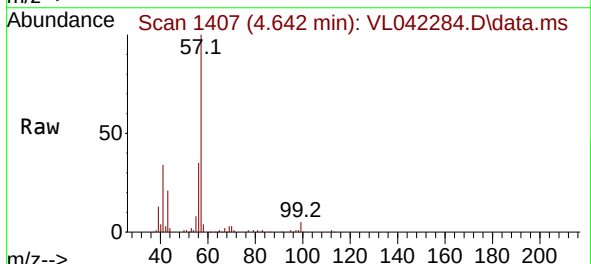
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

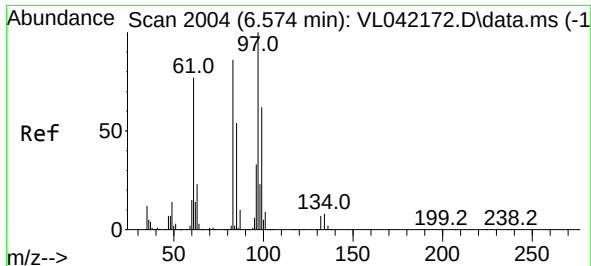
Tgt Ion: 69 Resp: 153486
Ion Ratio Lower Upper
69 100
41 250.6 123.8 185.6#
100 0.2 28.4 42.6#



#44
2,2,4-Trimethylpentane
Concen: 1.279 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.006 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

Tgt Ion: 57 Resp: 84539
Ion Ratio Lower Upper
57 100
41 0.0 26.8 40.2#
56 0.0 25.6 38.4#

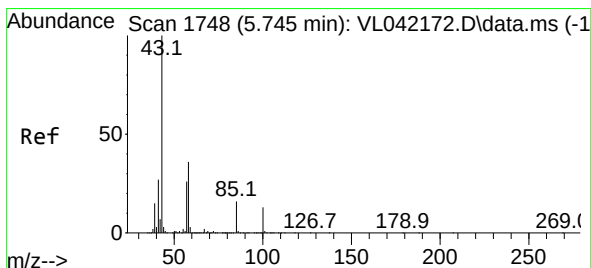
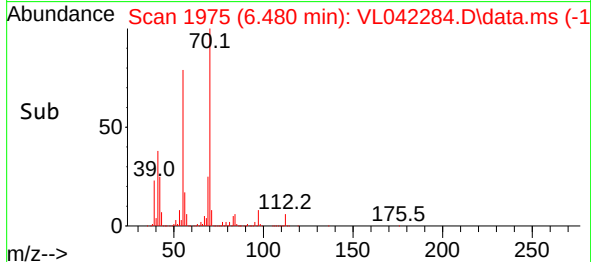
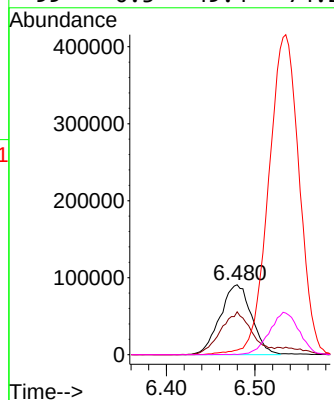
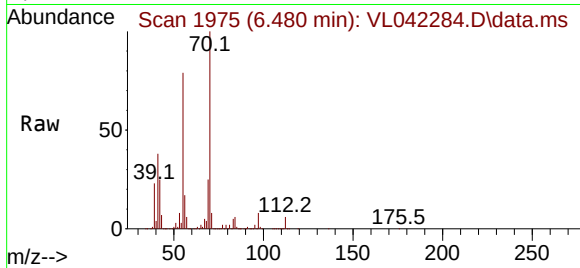




#47
 1,1,2-Trichloroethane
 Concen: 14.853 ppbv
 RT: 6.480 min Scan# 1975
 Delta R.T. -0.094 min
 Lab File: VL042284.D
 Acq: 09 Apr 2025 03:22

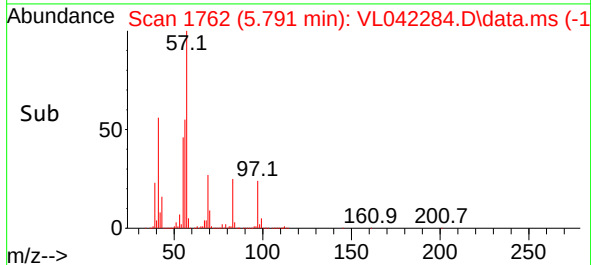
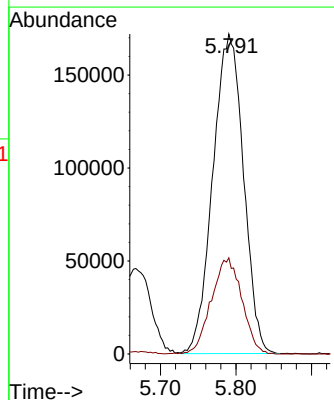
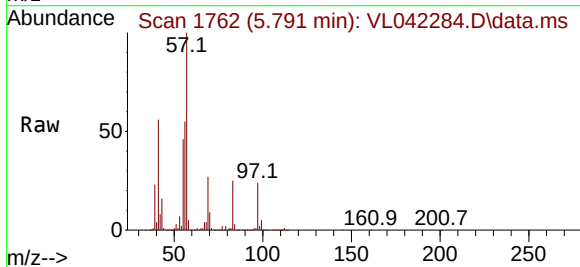
Instrument : MSVOA_1
 ClientSampleId : SSSG-B2-2-04022025

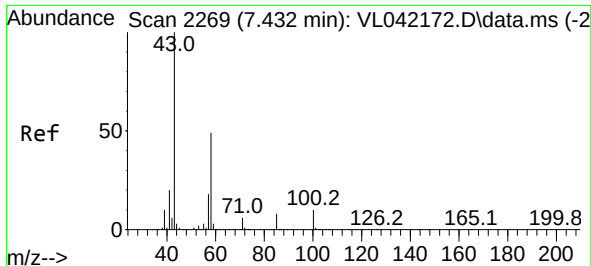
Tgt Ion:	97	Resp:	223694
Ion	Ratio	Lower	Upper
97	100		
83	61.1	69.2	103.8#
85	6.6	43.1	64.7#
99	0.3	49.4	74.2#



#50
 4-Methyl-2-Pentanone
 Concen: 10.666 ppbv
 RT: 5.791 min Scan# 1762
 Delta R.T. 0.045 min
 Lab File: VL042284.D
 Acq: 09 Apr 2025 03:22

Tgt Ion:	43	Resp:	483677
Ion	Ratio	Lower	Upper
43	100		
58	30.0	29.0	43.6

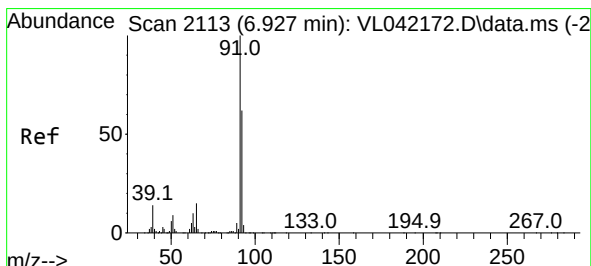
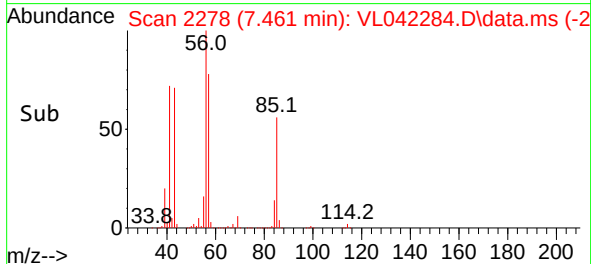
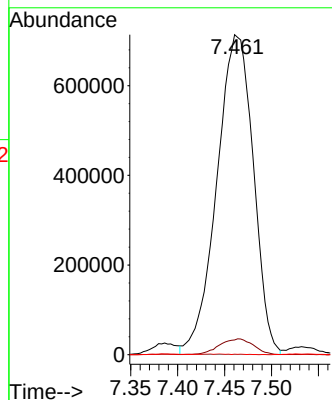
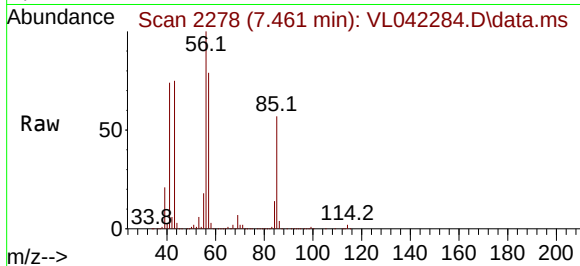




#51
2-Hexanone
Concen: 51.871 ppbv
RT: 7.461 min Scan# 2115
Delta R.T. 0.029 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

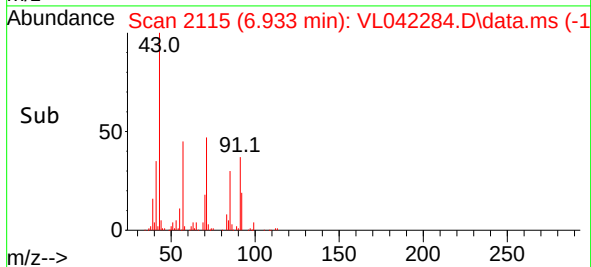
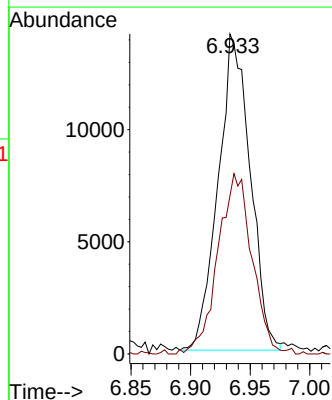
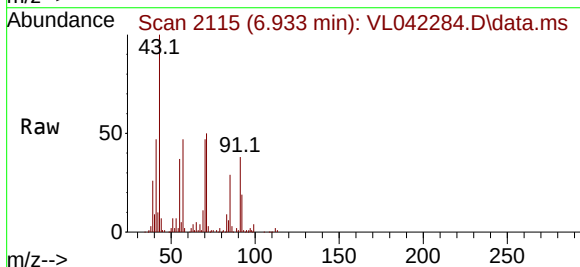
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

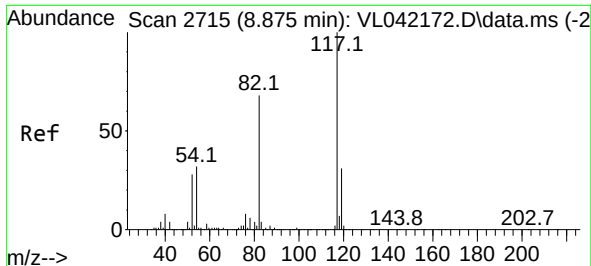
Tgt Ion: 43 Resp: 1931577
Ion Ratio Lower Upper
43 100
58 4.7 39.7 59.5#
98 0.0 0.1 0.1#



#53
Toluene
Concen: 0.569 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.006 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

Tgt Ion: 91 Resp: 26400
Ion Ratio Lower Upper
91 100
92 61.2 48.4 72.6

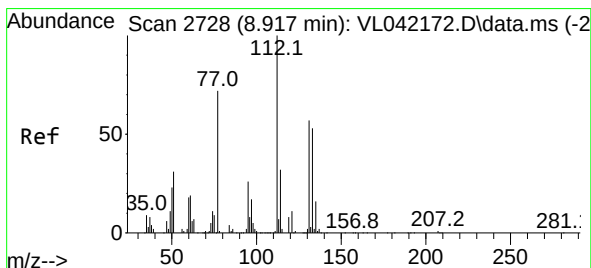
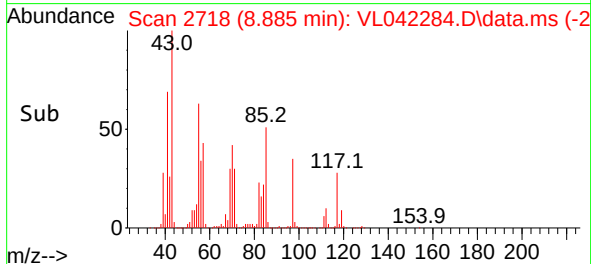
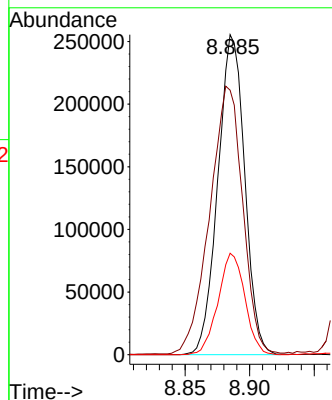
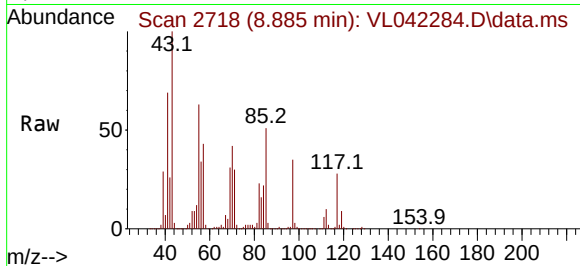




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 211
Delta R.T. 0.009 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

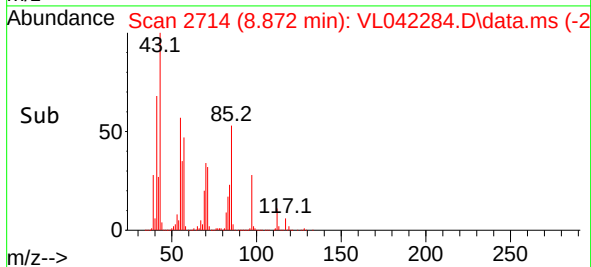
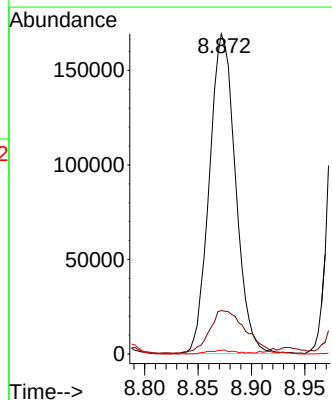
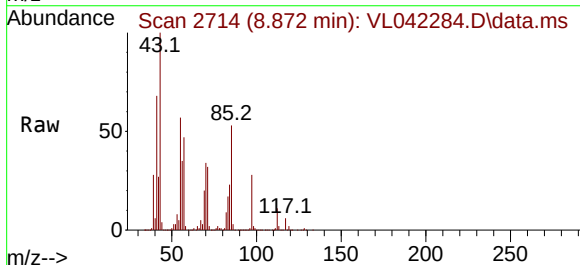
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

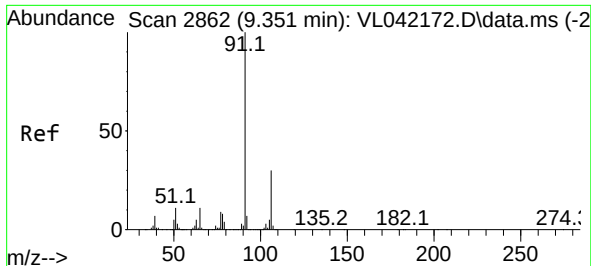
Tgt Ion:117 Resp: 369232
Ion Ratio Lower Upper
117 100
82 102.9 55.8 83.6#
119 31.6 25.5 38.3



#57
Chlorobenzene
Concen: 8.243 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.046 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

Tgt Ion:112 Resp: 288701
Ion Ratio Lower Upper
112 100
77 13.3 58.2 87.2#
114 1.1 29.1 35.5#

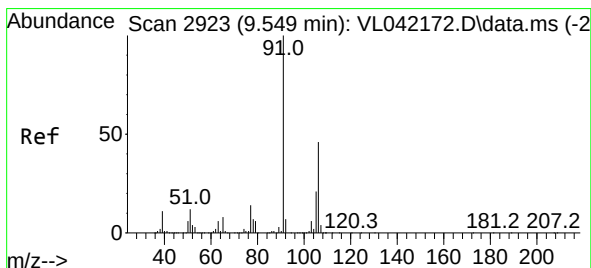
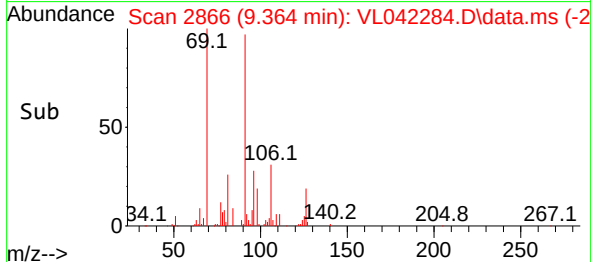
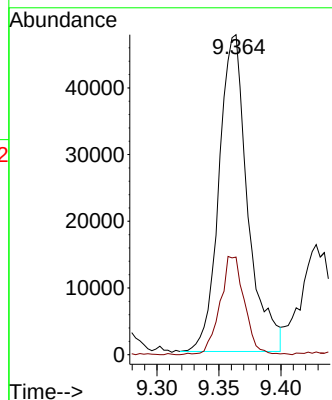
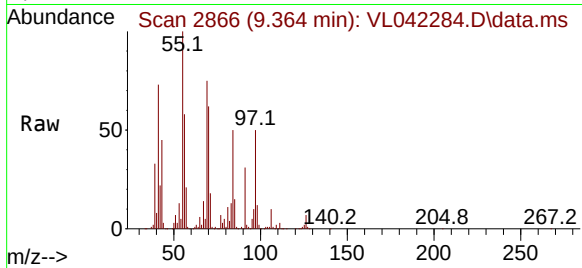




#58
Ethyl Benzene
Concen: 1.170 ppbv
RT: 9.364 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

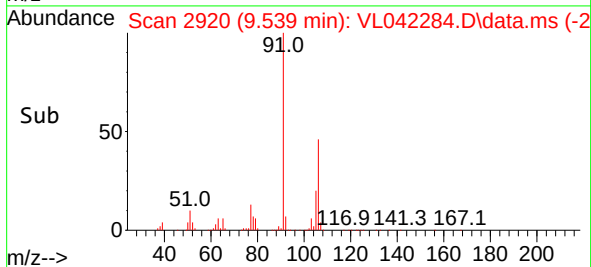
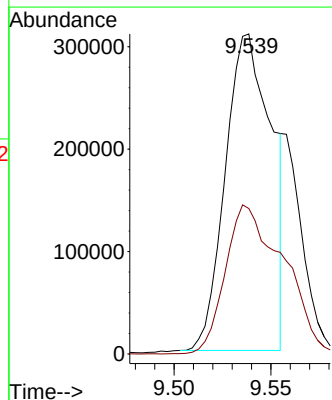
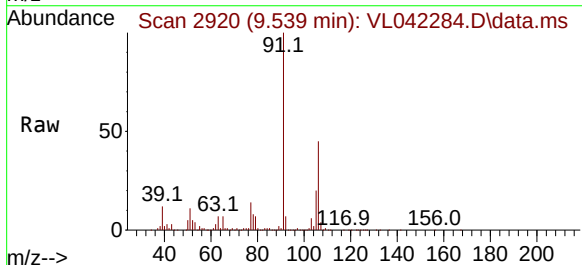
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B2-2-04022025

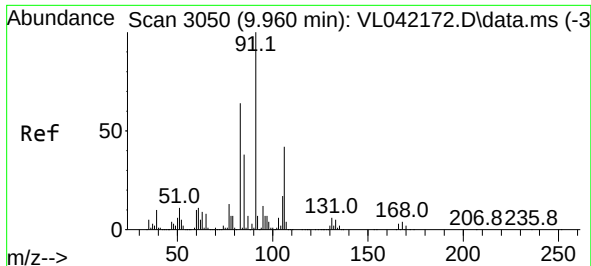
Tgt Ion: 91 Resp: 76723
Ion Ratio Lower Upper
91 100
106 30.8 24.2 36.2



#59
m/p-Xylene
Concen: 9.793 ppbv
RT: 9.539 min Scan# 2920
Delta R.T. -0.010 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

Tgt Ion: 91 Resp: 512888
Ion Ratio Lower Upper
91 100
106 59.3 36.4 54.6#

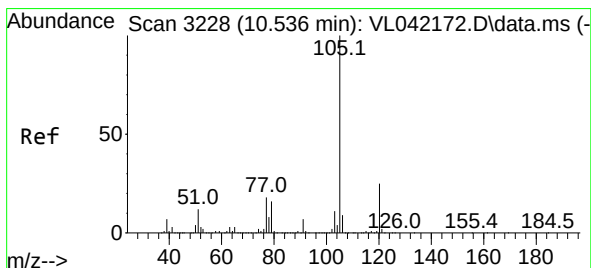
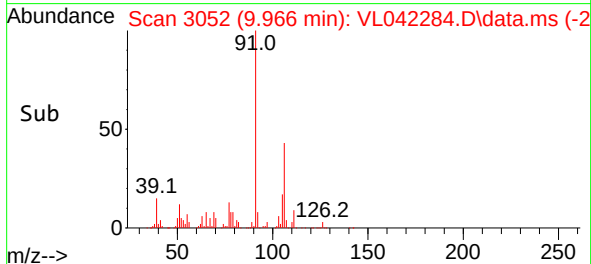
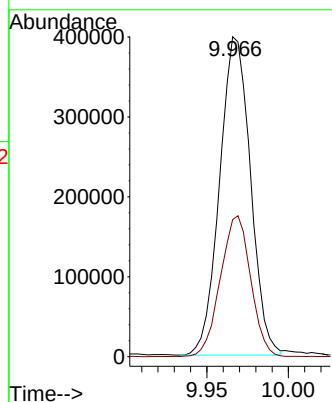
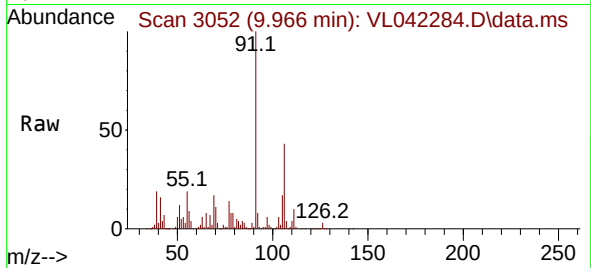




#60
o-Xylene
Concen: 9.973 ppbv
RT: 9.966 min Scan# 3050
Delta R.T. 0.006 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

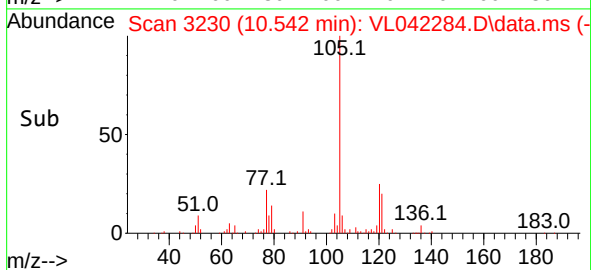
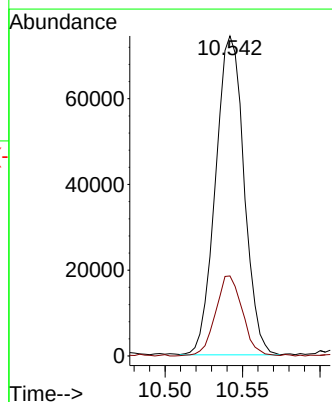
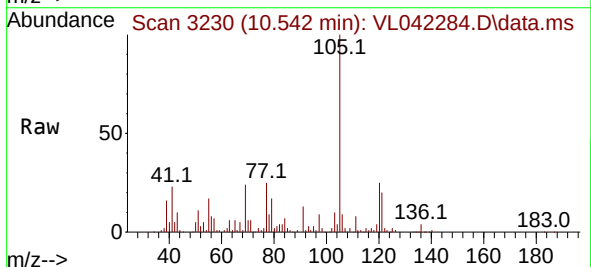
Instrument : MSVOA_L
ClientSampleId : SSSG-B2-2-04022025

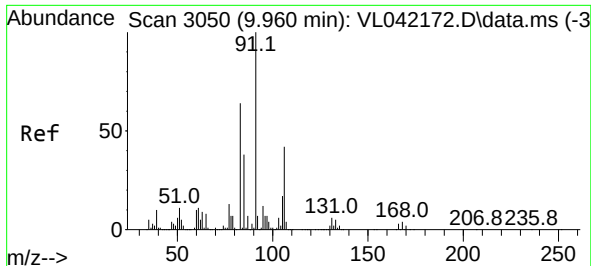
Tgt Ion: 91 Resp: 523601
Ion Ratio Lower Upper
91 100
106 43.5 20.8 62.5



#62
Isopropylbenzene
Concen: 1.211 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.006 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

Tgt Ion: 105 Resp: 95094
Ion Ratio Lower Upper
105 100
120 24.0 19.9 29.9

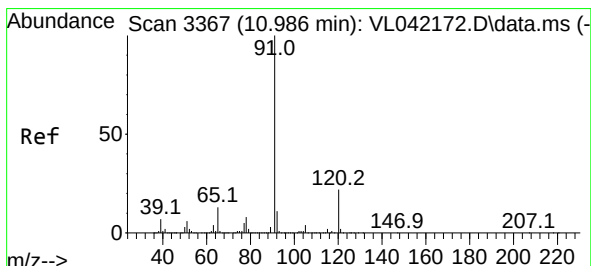
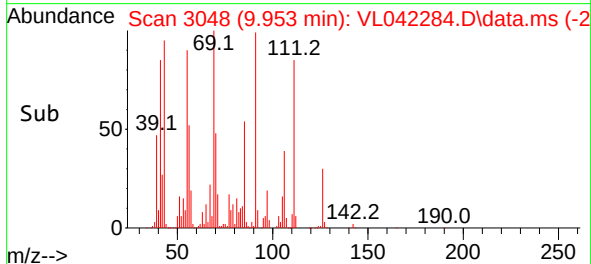
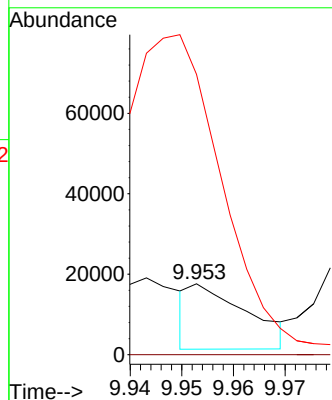
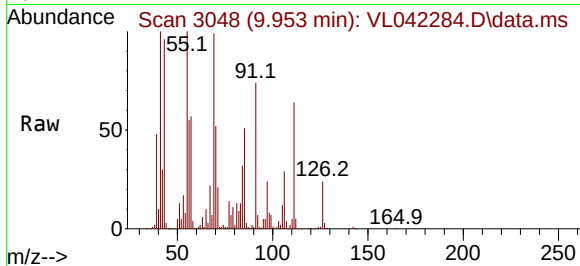




#63
1,1,2,2-Tetrachloroethane
Concen: 0.393 ppbv
RT: 9.953 min Scan# 3048
Delta R.T. -0.007 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

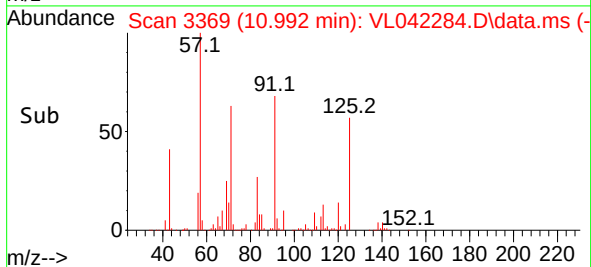
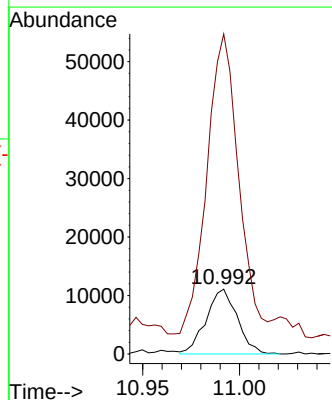
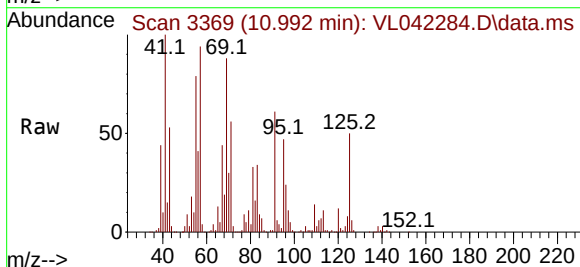
Instrument : MSVOA_1
ClientSampleId : SSSG-B2-2-04022025

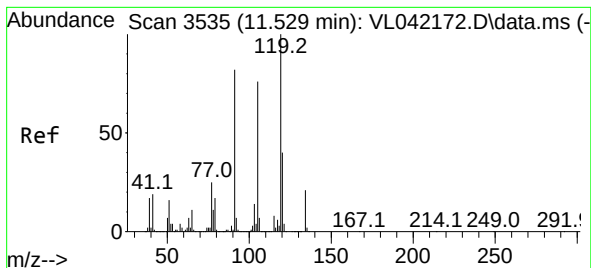
Tgt Ion: 83 Resp: 12548
Ion Ratio Lower Upper
83 100
131 0.0 4.8 14.4#
85 951.7 32.5 97.5#



#64
n-propylbenzene
Concen: 0.615 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.006 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

Tgt Ion: 120 Resp: 12424
Ion Ratio Lower Upper
120 100
91 563.3 376.9 565.3





#65

tert-Butylbenzene

Concen: 0.606 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.006 min

Lab File: VL042284.D

Acq: 09 Apr 2025 03:22

Instrument :

MSVOA_1

ClientSampleId :

SSSG-B2-2-04022025

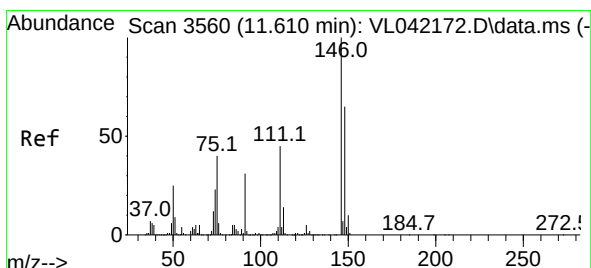
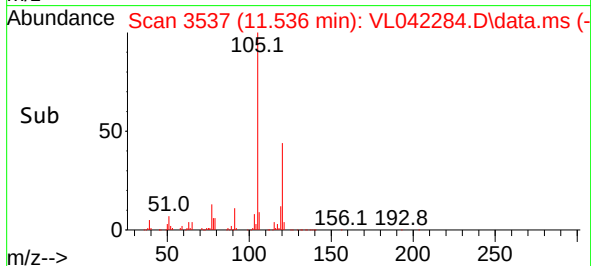
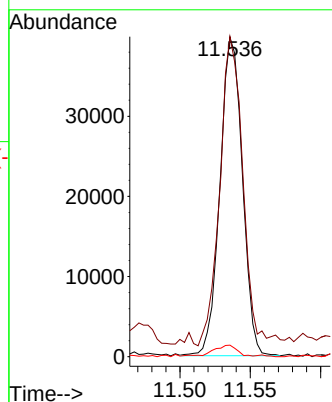
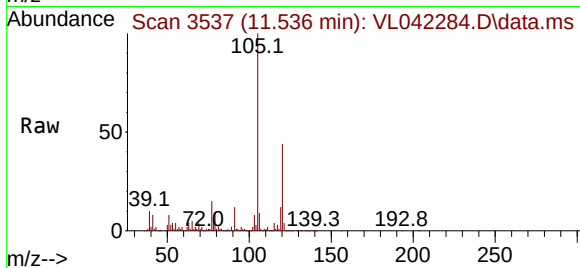
Tgt Ion:119 Resp: 44016

Ion Ratio Lower Upper

119 100

91 99.4 66.0 99.0#

134 4.6 16.7 25.1#



#66

Benzyl Chloride

Concen: 0.106 ppbv

RT: 11.639 min Scan# 3569

Delta R.T. 0.029 min

Lab File: VL042284.D

Acq: 09 Apr 2025 03:22

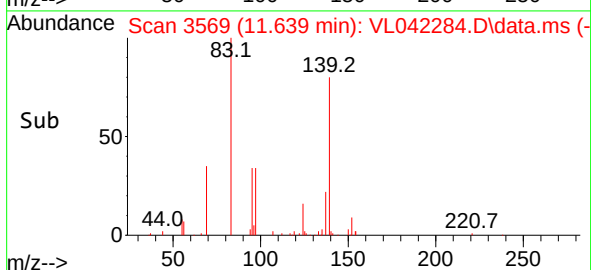
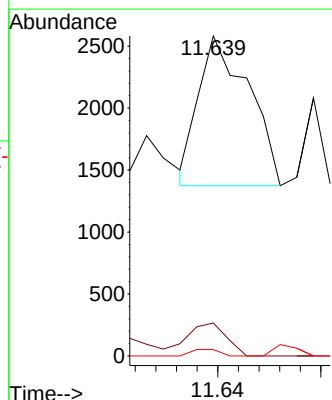
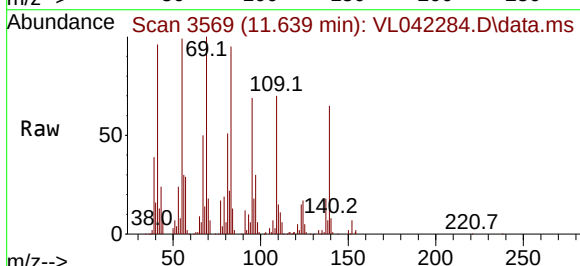
Tgt Ion: 91 Resp: 818

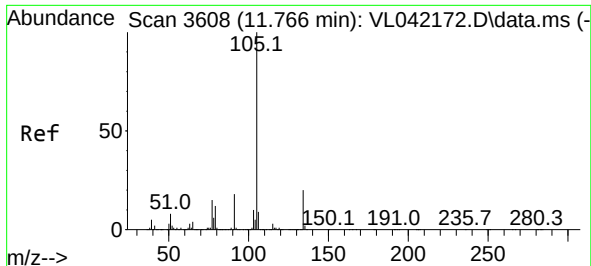
Ion Ratio Lower Upper

91 100

126 0.0 13.8 20.6#

128 2.4 4.5 6.7#

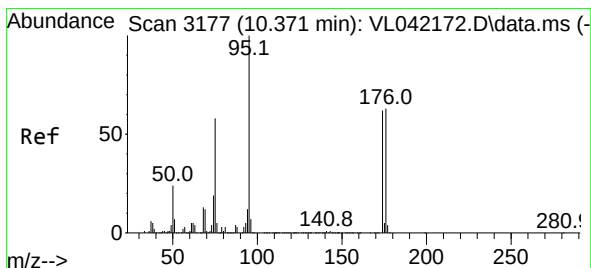
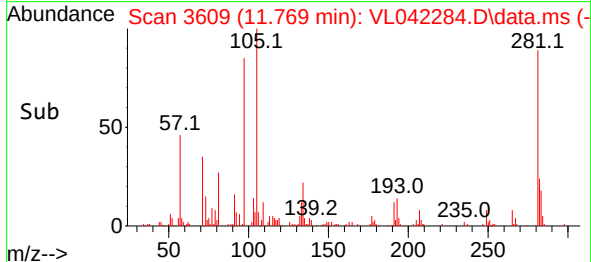
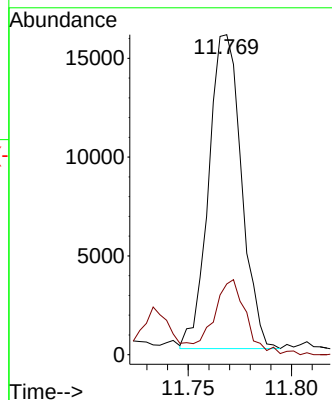
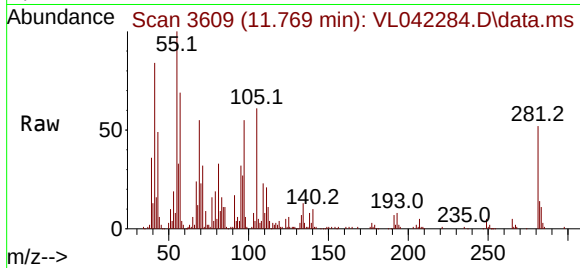




#67
sec-Butylbenzene
Concen: 0.174 ppbv
RT: 11.769 min Scan# 3179
Delta R.T. 0.003 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

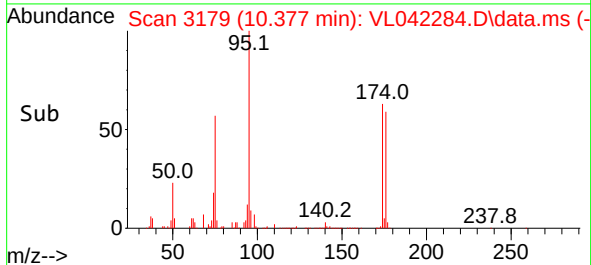
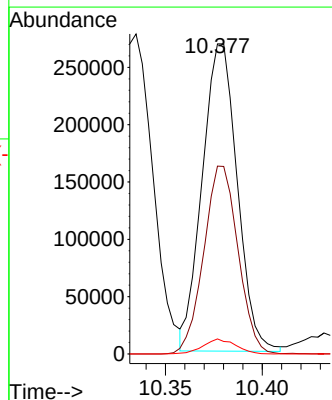
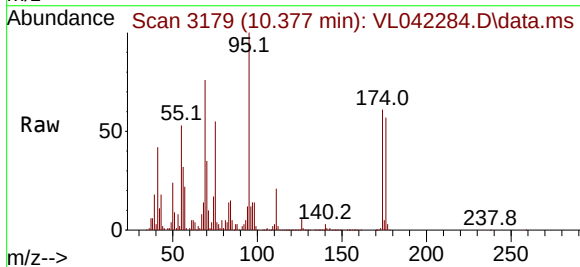
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B2-2-04022025

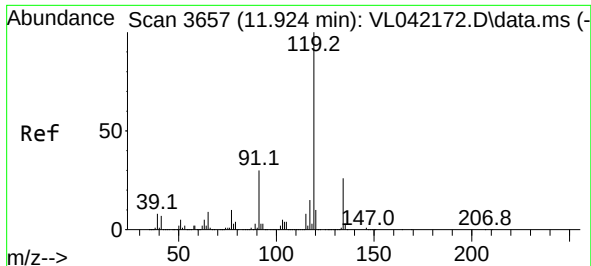
Tgt Ion:105 Resp: 17547
Ion Ratio Lower Upper
105 100
134 23.6 15.5 23.3#



#68
1-Bromo-4-Fluorobenzene
Concen: 11.123 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

Tgt Ion: 95 Resp: 337277
Ion Ratio Lower Upper
95 100
174 60.0 50.6 76.0
175 4.6 3.8 5.6

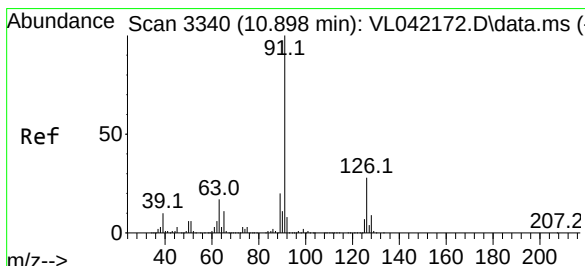
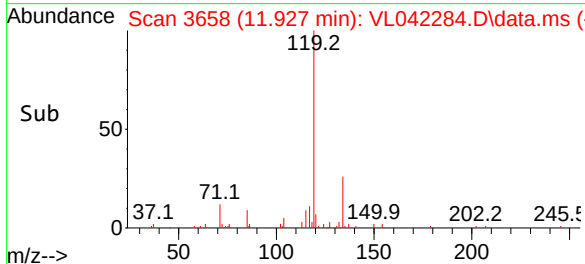
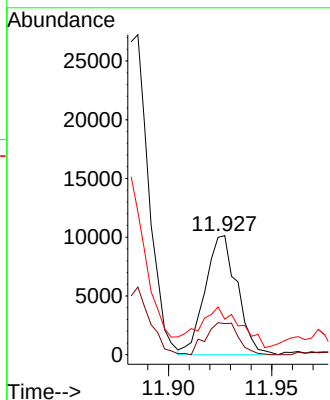
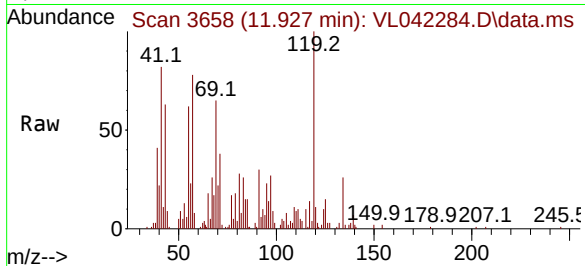




#69
p-Isopropyltoluene
Concen: 0.126 ppbv
RT: 11.927 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

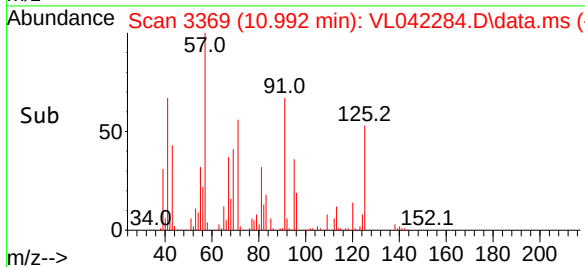
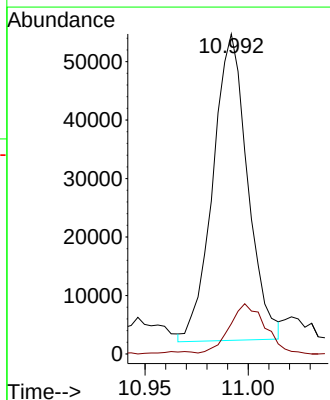
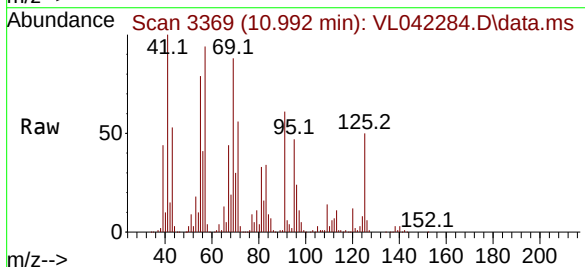
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-2-04022025

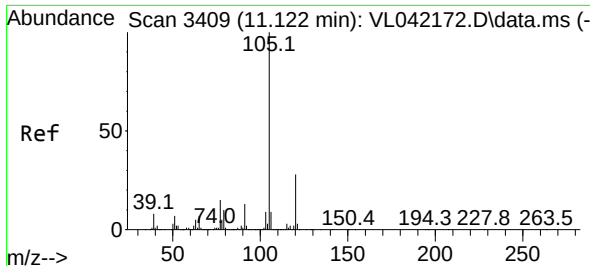
Tgt Ion:119 Resp: 10964
Ion Ratio Lower Upper
119 100
134 27.2 20.4 30.6
91 35.1 23.7 35.5



#71
2-Chlorotoluene
Concen: 1.005 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.094 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

Tgt Ion: 91 Resp: 61255
Ion Ratio Lower Upper
91 100
126 17.9 11.6 46.4

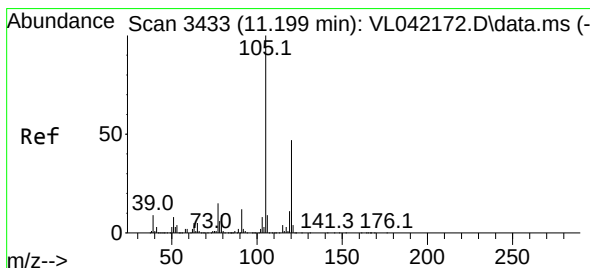
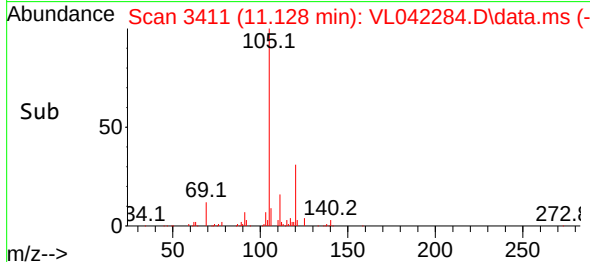
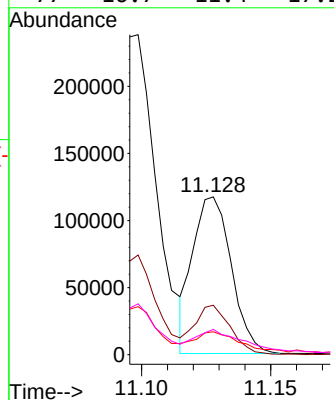
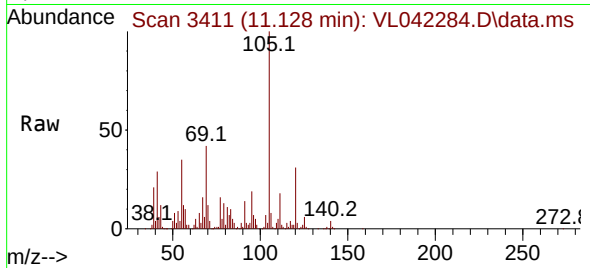




#72
4-Ethyltoluene
Concen: 1.852 ppbv
RT: 11.128 min Scan# 3409
Delta R.T. 0.006 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

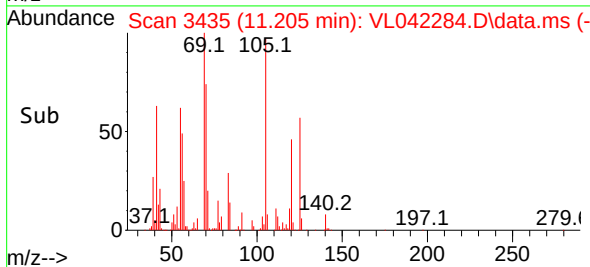
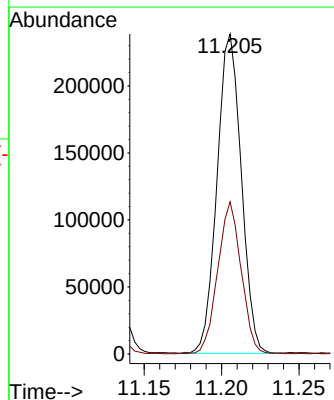
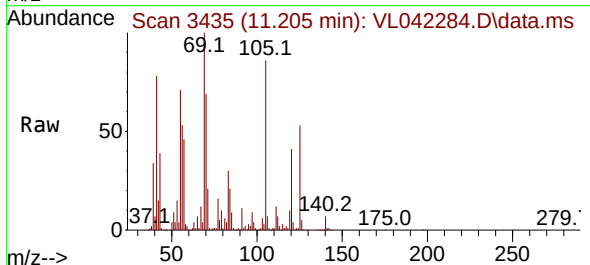
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B2-2-04022025

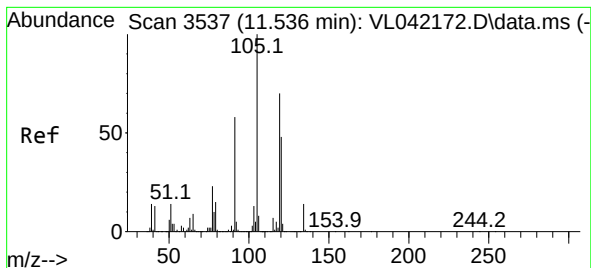
Tgt Ion:105 Resp: 121091
Ion Ratio Lower Upper
105 100
120 0.0 23.4 35.0#
91 0.0 10.3 15.5#
77 16.7 11.4 17.2



#73
1,3,5-Trimethylbenzene
Concen: 4.542 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. 0.006 min
Lab File: VL042284.D
Acq: 09 Apr 2025 03:22

Tgt Ion:105 Resp: 259320
Ion Ratio Lower Upper
105 100
120 47.5 37.4 56.0





#74

1,2,4-Trimethylbenzene

Concen: 5.340 ppbv

RT: 11.539 min Scan# 351

Delta R.T. 0.003 min

Lab File: VL042284.D

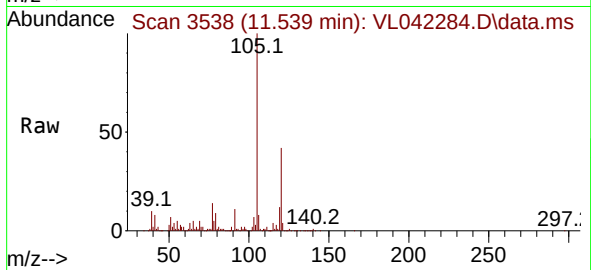
Acq: 09 Apr 2025 03:22

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-2-04022025



Tgt Ion:105 Resp: 351232

Ion Ratio Lower Upper

105 100

120 42.3 38.6 58.0

91 10.7 46.2 69.2#

77 13.6 18.6 27.8#

