



SHIPPING DOCUMENTS

Client Contact Information						Bottle Order ID : 82505018				Courier : F GALDUN				1 of 2 COCs					
Client ID : GFEL01 Project ID : 10 Eldridge St.						Sampler Name(s) : FRANK GALDUN				Analysis				Matrix					
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :						Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified									
						Phone Number : 646-542-3465													
						Fax Number : 973-334-1692													
						Site Details: 12 MAPLEWOOD ST. MALDEN, MA													
						Analysis Turnaround Time 3 DAY				Data Package Type : RESULTS ONLY				Indoor/Ambient Air Soil Gas					
						Standard : 10 business days OR				EDD Type : PDF									
Rush (Specify): 3 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					
SV1	5/12/25	8:12	10:12	OVER 30	5	63	63	-30	-7.1	10579	10154	6 L	50	VL042399.D	1					

Temperature (Fahrenheit)				
	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)				
	Ambient	Maximum	Minimum	
Start				
Stop				

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

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

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

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: **0.0**

Sampling site (State):

Quick Connector required : **No**

Canisters Shipped by: [Signature]	Date/Time: 5/12/25	Canisters Received by: [Signature]	Date/Time: 5-12-25 0700
Samples Relinquished by: [Signature]	Date/Time: 5/12/25	Received by: [Signature]	Date/Time: 5-12-25 0700
Relinquished by:	Date/Time:	Received by:	Date/Time:

Client Contact Information				Bottle Order ID : B2505018				Courier : FGALDUN				<u>2</u> of <u>2</u> COCs					
Client ID : GFEL01 Project ID : 10 Eldridge St.				Sampler Name(s) : FRANK GALDUN				Analysis				Matrix					
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified									
				Phone Number : 646-542-3465													
				Fax Number : 973-334-1692													
				Site Details: 12 MAPLEWOOD ST. MALDEN, MA													
Analysis Turnaround Time 3 DAY				Standard : 16 business days OR				Data Package Type : RESULTS ONLY									
Rush (Specify): 3 Days				EDD Type : PDF													
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas
TA1	5/12/25	8:06	10:06	OVER 30	S	63	63	-30	-5.5	10525	10599	6 L	50	VL042330.D	1	1	
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) 							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, CIS-1,2-DCE, 1,1,1-TCA, 1,1-DCE, VINYL CHLORIDE Please follow the instructions on the back of this COC.							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Special Instructions/QC Requirements & Comments :																	
Suspected Contamination: High Medium Low PID Readings: 0.0																	
Sampling site (State):																	
Quick Connector required : NO																	
Canisters Shipped by: Ser...				Date/Time: 05/12/25				Canisters Received by: [Signature]				Date/Time:					
Samples Relinquished by: [Signature]				Date/Time: 5/12/25				Received by: [Signature]				Date/Time: 5-12-25 0700					
Relinquished by:				Date/Time:				Received by:				Date/Time:					

Laboratory Certification

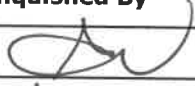
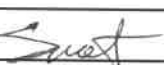
Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample			
Laboratory: <u>Chemtech</u> ~~QORSE~~ Field Sample Seal No.: <u>Q2011</u> Case No.: <u>12 Maplewood St, Malden</u>	Location: <u>284 Sheffield Street, Mountainside, NJ 7092</u> Title: <u>Sample Custodian</u> Date Broken <u>5/12/2025</u> Military Time Seal Broken: <u>07:00:00</u> Analytical Parameter/Fraction <u>WOCMS Group2</u>		

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q2011-01	SV1		
Q2011-02	IA1		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
5/12	1105	Signature 	Signature 	
		Printed Name <u>George N.</u>	Printed Name <u>Sample Custodian</u>	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

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

DATA REPORTING QUALIFIERS- ORGANIC

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

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

LAB CHRONICLE

OrderID: Q2011
Client: GFE LLC
Contact: Frank Galdun

OrderDate: 5/12/2025 10:11:21 AM
Project: 12 Maplewood St, Malden MA
Location: L21,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2011-01	SV1	Air	VOCMS Group2	TO-15	05/09/25		05/14/25	05/12/25
Q2011-02	IA1	Air	VOCMS Group2	TO-15	05/09/25		05/14/25	05/12/25



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

Hit Summary Sheet
SW-846

SDG No.: Q2011

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: Q2011-01	SV1 SV1	Air	Tetrachloroethene	10.2		0.41	0.81	ug/m3
			Total Voc :	10.2				
			Total Concentration:	10.2				



QC SUMMARY

Surrogate Summary

SDG No.: Q2011

Client: GFE LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q2011-01	SV1	1-Bromo-4-Fluorobenzene	10	9.95	100	65	135
Q2011-02	IA1	1-Bromo-4-Fluorobenzene	10	9.52	95	65	135
Q2037-02DUP	IA1DUP	1-Bromo-4-Fluorobenzene	10	10.0	100	65	135
VL0514ABL01	VL0514ABL01	1-Bromo-4-Fluorobenzene	10	9.46	95	65	135
VL0514ABS01	VL0514ABS01	1-Bromo-4-Fluorobenzene	10	10.1	101	65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2011
Client: GFE LLC
Analytical Method: SWTO-15 **Datafile :** VL042538.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0514ABS01	Vinyl Chloride	10	8.60	ppbv	86			70	130	
	1,1-Dichloroethane	10	10.1	ppbv	101			70	130	
	cis-1,2-Dichloroethene	10	9.60	ppbv	96			70	130	
	1,1,1-Trichloroethane	10	8.90	ppbv	89			70	130	
	Trichloroethene	10	9.30	ppbv	93			70	130	
	Tetrachloroethene	10	9.00	ppbv	90			70	130	

Duplicate Sample Summary

Lab Sample Id :	Q2037-02DUP	Q2037-02
Client Id :	IA1DUP	IA1
DF :	1	1
Datafile :	VL042542.D	VL042541.D
Anal Date & Time :	05/14/2025 14:50	05/14/2025 14:15

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1-Dichloroethane	0	0	0
cis-1,2-Dichloroethene	0	0	0
Tetrachloroethene	0.25	0.25	0
Trichloroethene	0	0	0
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

IA1DUP

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: Q2011

SAS No.: Q2011 SDG NO.: Q2011

Lab File ID: VL042542.D

Lab Sample ID: Q2037-02DUP

Date Analyzed: 05/14/2025

Time Analyzed: 14:50

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

Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
IA1DUP	Q2037-02DUP	VL042542.D	05/14/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0514ABL01

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: Q2011

SAS No.: Q2011 SDG NO.: Q2011

Lab File ID: VL042537.D

Lab Sample ID: VL0514ABL01

Date Analyzed: 05/14/2025

Time Analyzed: 11:09

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
VL0514ABS01	VL0514ABS01	VL042538.D	05/14/2025
IA1	Q2011-02	VL042539.D	05/14/2025
SV1	Q2011-01	VL042540.D	05/14/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: Q2011 SAS No.: Q2011 SDG NO.: Q2011
Lab File ID: VL042524.D BFB Injection Date: 05/12/2025
Instrument ID: MSVOA_L BFB Injection Time: 07:58
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.7
75	30.0 - 66.0% of mass 95	58.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.6 (1) 1
174	50.0 - 120.0% of mass 95	59.7
175	4.0 - 9.0% of mass 174	4.4 (7.4) 1
176	93.0 - 101.0% of mass 174	55.8 (93.4) 1
177	5.0 - 9.0% of mass 176	3.7 (6.7) 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	VL042525.D	05/12/2025	08:57
VSTDICCC001	VSTDICCC001	VL042527.D	05/12/2025	10:07
VSTDICCC0.5	VSTDICCC0.5	VL042528.D	05/12/2025	10:41
VSTDICCC0.1	VSTDICCC0.1	VL042529.D	05/12/2025	11:15
VSTDICCC0.03	VSTDICCC0.03	VL042530.D	05/12/2025	11:49
VSTDICCC002	VSTDICCC002	VL042532.D	05/12/2025	12:58
VSTDICCC015	VSTDICCC015	VL042533.D	05/12/2025	14:28

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: Q2011 SAS No.: Q2011 SDG NO.: Q2011
Lab File ID: VL042535.D BFB Injection Date: 05/14/2025
Instrument ID: MSVOA_L BFB Injection Time: 09:38
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	24
75	30.0 - 66.0% of mass 95	58.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.1
173	Less than 2.0% of mass 174	0.2 (0.3) 1
174	50.0 - 120.0% of mass 95	56.7
175	4.0 - 9.0% of mass 174	4.7 (8.3) 1
176	93.0 - 101.0% of mass 174	54.4 (95.9) 1
177	5.0 - 9.0% of mass 176	3.6 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL042536.D	05/14/2025	10:23
VL0514ABL01	VL0514ABL01	VL042537.D	05/14/2025	11:09
VL0514ABS01	VL0514ABS01	VL042538.D	05/14/2025	11:53
IA1	Q2011-02	VL042539.D	05/14/2025	12:40
SV1	Q2011-01	VL042540.D	05/14/2025	13:12
IA1DUP	Q2037-02DUP	VL042542.D	05/14/2025	14:50

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: Q2011 SAS No.: Q2011 SDG NO.: Q2011
Lab File ID: VL042536.D Date Analyzed: 05/14/2025
Instrument ID: MSVOA_L Time Analyzed: 10:23
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	118016	2.79	346885	3.96	301246	8.89
UPPER LIMIT	165222	3.12	485639	4.29	421744	9.22
LOWER LIMIT	70809.6	2.46	208131	3.63	180748	8.56
EPA SAMPLE NO.						
SV1	130590	2.80	371118	3.97	351568	8.89
IA1	122046	2.79	349665	3.97	298337	8.89
IA1DUP	128941	2.79	393473	3.97	334639	8.89
VL0514ABL01	116915	2.79	336117	3.97	289273	8.89
VL0514ABS01	116911	2.79	342869	3.96	296340	8.89

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

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

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



SAMPLE DATA

Report of Analysis

Client:	GFE LLC	Date Collected:	05/09/25
Project:	12 Maplewood St, Malden MA	Date Received:	05/12/25
Client Sample ID:	SV1	SDG No.:	Q2011
Lab Sample ID:	Q2011-01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042540.D	4		05/14/25 13:12	VL051425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.060	0.15	U	0.15	0.31	ug/m3
75-34-3	1,1-Dichloroethane	0.52	2.10	U	2.10	8.09	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.36	1.43	U	1.43	7.93	ug/m3
71-55-6	1,1,1-Trichloroethane	0.040	0.22	U	0.22	0.65	ug/m3
79-01-6	Trichloroethene	0.070	0.38	U	0.38	0.64	ug/m3
127-18-4	Tetrachloroethene	1.50	10.2		0.41	0.81	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.0			65 - 135	100%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	131000			2.797		
540-36-3	1,4-Difluorobenzene	371000			3.972		
3114-55-4	Chlorobenzene-d5	352000			8.888		

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
 Data File : VL042540.D
 Acq On : 14 May 2025 13:12
 Operator : SY/MD
 Sample : Q2011-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025

Quant Time: May 15 01:34:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

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

QLast Update : Tue May 13 02:07:03 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	130590	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.972	114	371118	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.888	117	351568	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	304412	9.951	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	2743	0.129	ppbv #	87
9) Propene	1.483	41	2302	0.491	ppbv #	1
10) Heptane	5.007	43	3780m	0.211	ppbv	
15) Acetone	1.842	43	56491	2.684	ppbv	94
20) Methylene Chloride	2.069	84	2031m	0.280	ppbv	
26) Hexane	2.836	57	19490	1.296	ppbv #	36
34) 2-Butanone	2.564	43	34360	1.405	ppbv	99
41) Tetrahydrofuran	3.069	42	4353m	0.411	ppbv	
51) 2-Hexanone	7.445	43	73358m	3.433	ppbv	
52) Tetrachloroethene	8.234	164	4645m	0.369	ppbv	
53) Toluene	6.943	91	24657	0.764	ppbv	98
58) Ethyl Benzene	9.361	91	33945	0.708	ppbv	89
59) m/p-Xylene	9.539	91	92047	2.163	ppbv #	100
60) o-Xylene	9.972	91	59983	1.443	ppbv	97
62) Isopropylbenzene	10.549	105	26923	0.430	ppbv	99
64) n-propylbenzene	10.995	120	19646	1.236	ppbv	86
67) sec-Butylbenzene	11.772	105	58550m	0.710	ppbv	
69) p-Isopropyltoluene	11.931	119	29161	0.430	ppbv	94
70) n-Butylbenzene	12.290	91	14841m	0.222	ppbv	
72) 4-Ethyltoluene	11.131	105	55381	1.074	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.209	105	64408	1.434	ppbv	96
74) 1,2,4-Trimethylbenzene	11.542	105	157948	2.859	ppbv #	62

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

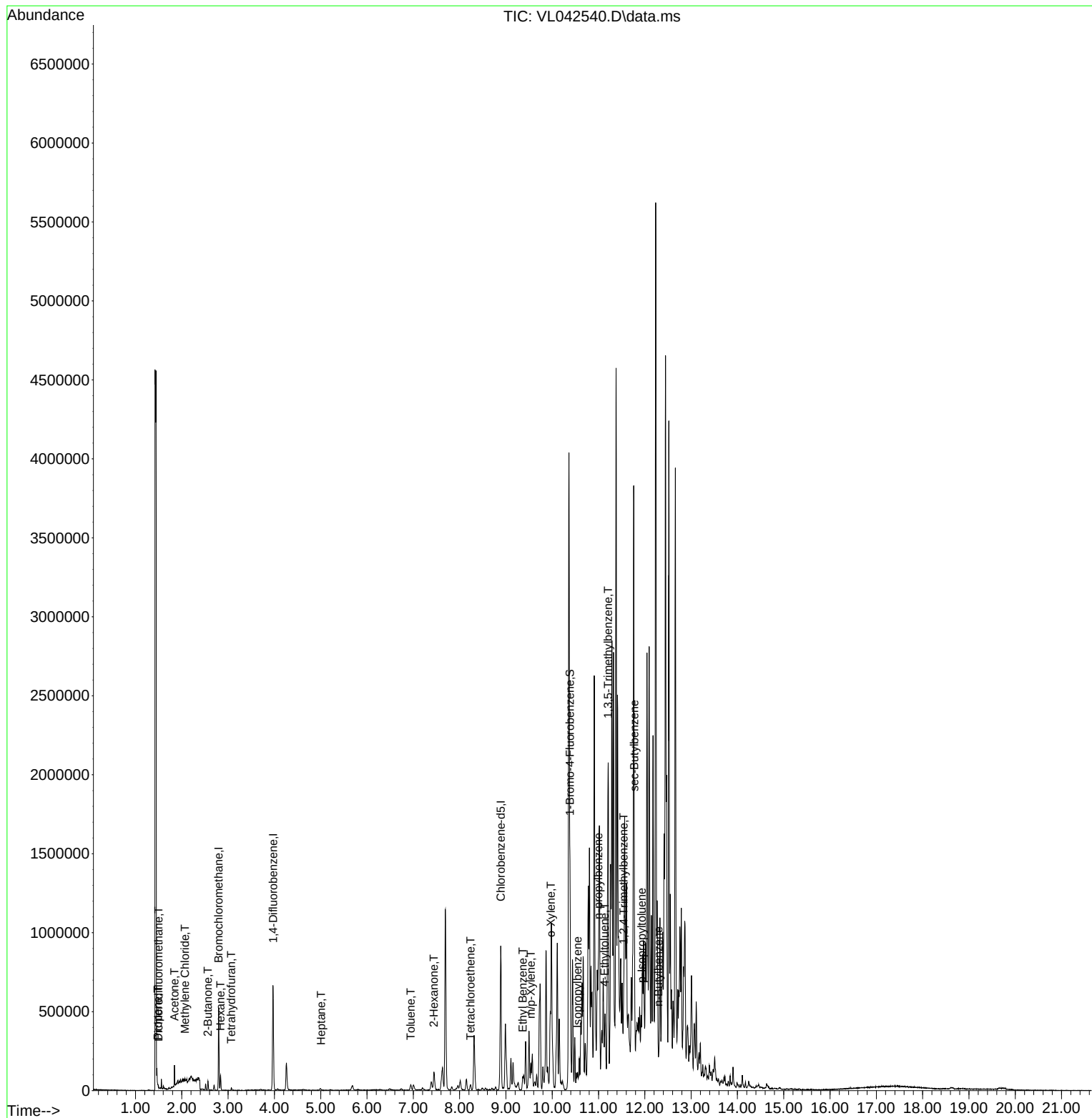
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
Data File : VL042540.D
Acq On : 14 May 2025 13:12
Operator : SY/MD
Sample : Q2011-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 7 Sample Multiplier: 1

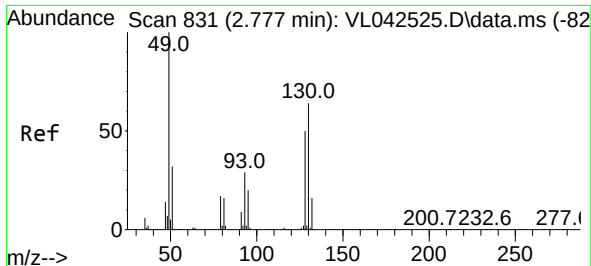
Instrument :
MSVOA_L
ClientSampleId :
SV1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

Quant Time: May 15 01:34:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue May 13 02:07:03 2025
Response via : Initial Calibration





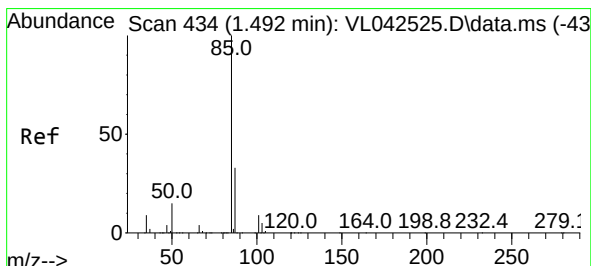
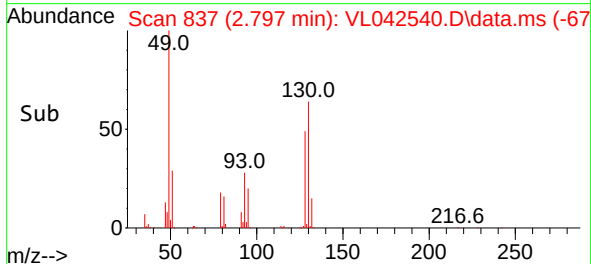
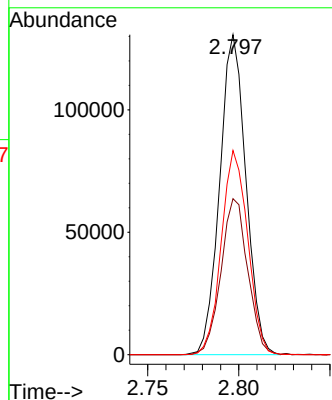
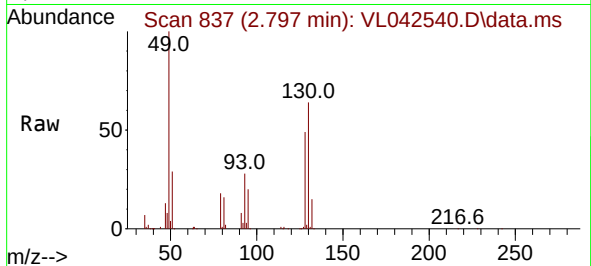
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. 0.020 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 49 Resp: 130590
Ion Ratio Lower Upper
49 100
128 49.8 24.9 74.6
130 64.2 32.5 97.5

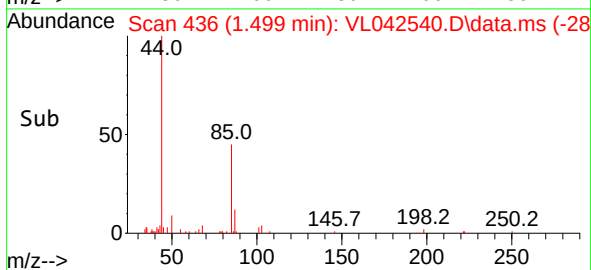
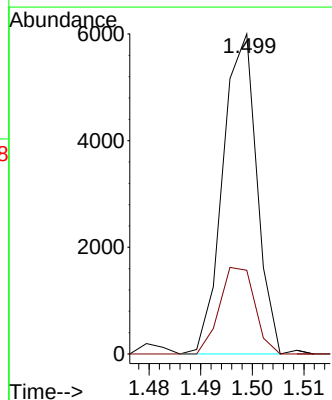
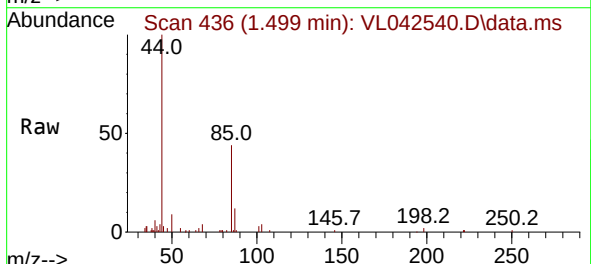
Manual Integrations
APPROVED

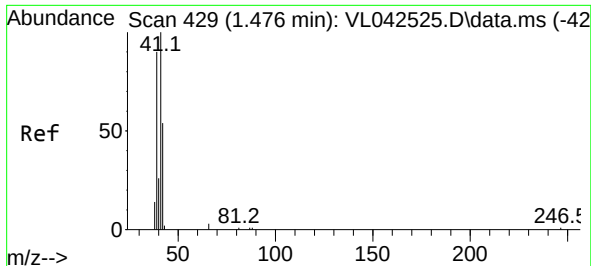
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#2
Dichlorodifluoromethane
Concen: 0.129 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.006 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

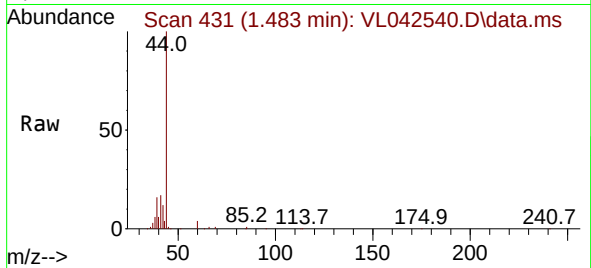
Tgt Ion: 85 Resp: 2743
Ion Ratio Lower Upper
85 100
87 26.2 26.8 40.2#





#9
 Propene
 Concen: 0.491 ppbv
 RT: 1.483 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL042540.D
 Acq: 14 May 2025 13:12

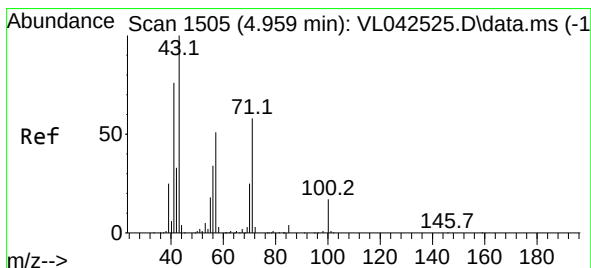
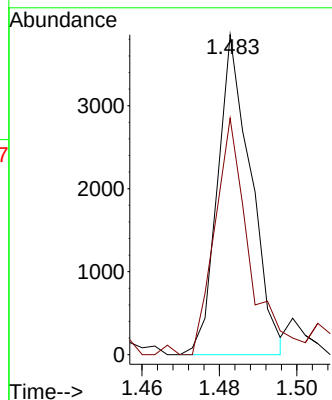
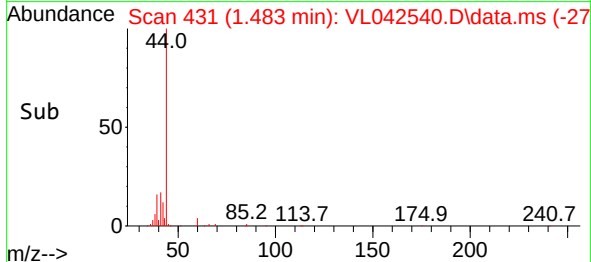
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



Tgt Ion: 41 Resp: 230
 Ion Ratio Lower Upper
 41 100
 42 84.7 4.1 6.1

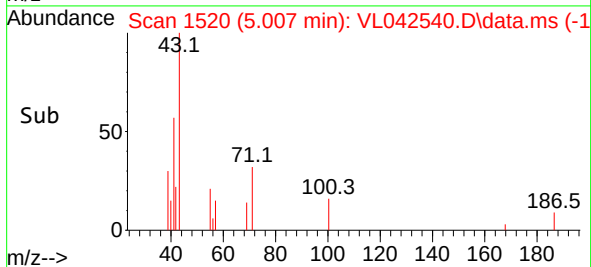
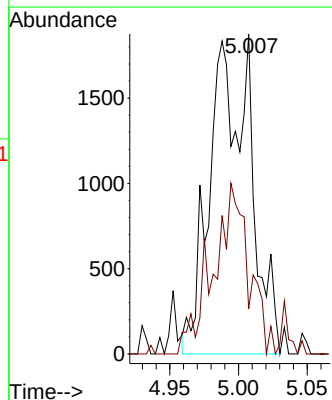
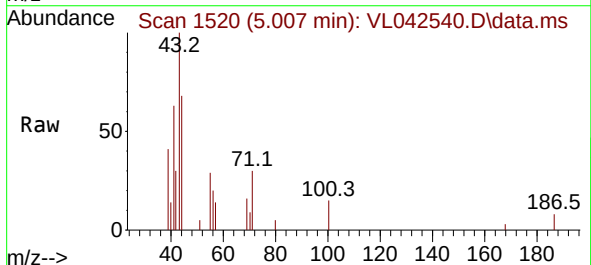
Manual Integrations
 APPROVED

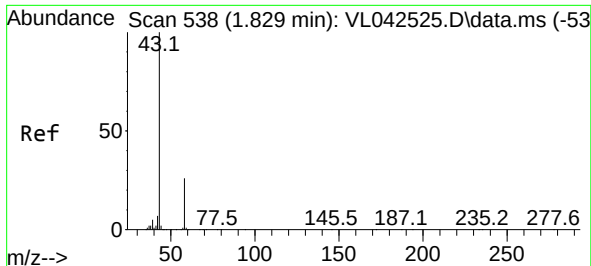
Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025



#10
 Heptane
 Concen: 0.211 ppbv m
 RT: 5.007 min Scan# 1520
 Delta R.T. 0.048 min
 Lab File: VL042540.D
 Acq: 14 May 2025 13:12

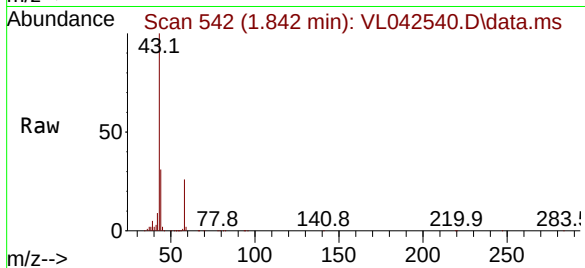
Tgt Ion: 43 Resp: 3780
 Ion Ratio Lower Upper
 43 100
 57 51.1 42.1 63.1





#15
Acetone
Concen: 2.684 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.013 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

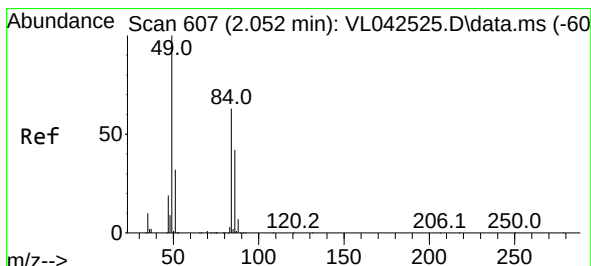
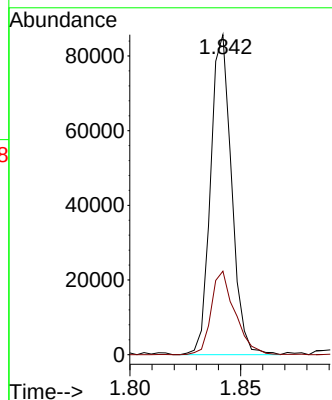
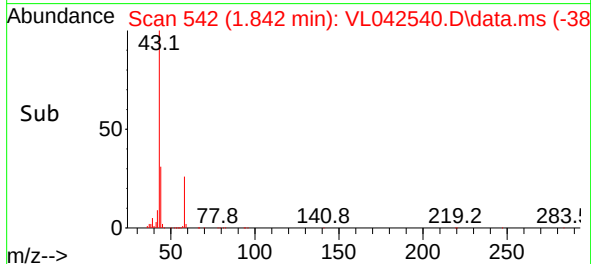
Instrument :
MSVOA_L
ClientSampleId :
SV1



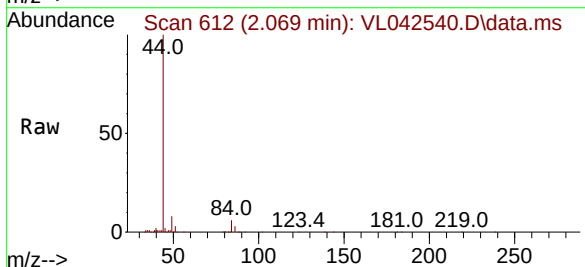
Tgt Ion: 43 Resp: 5649
Ion Ratio Lower Upper
43 100
58 29.7 21.3 31.9

Manual Integrations
APPROVED

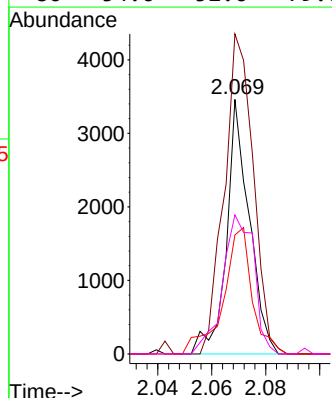
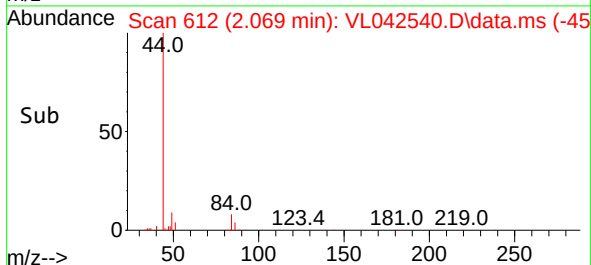
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

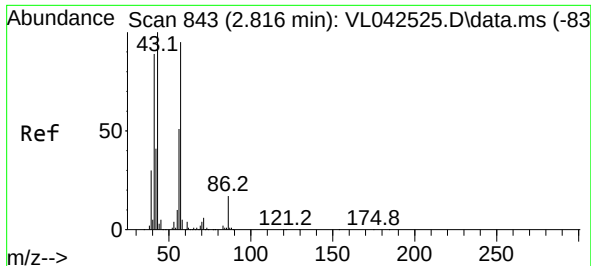


#20
Methylene Chloride
Concen: 0.280 ppbv m
RT: 2.069 min Scan# 612
Delta R.T. 0.016 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12



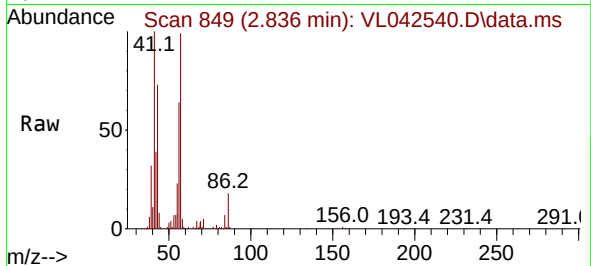
Tgt Ion: 84 Resp: 2031
Ion Ratio Lower Upper
84 100
49 125.7 128.2 192.4#
51 46.8 41.7 62.5
86 54.6 52.6 79.0





#26
Hexane
Concen: 1.296 ppbv
RT: 2.836 min Scan# 843
Delta R.T. 0.019 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

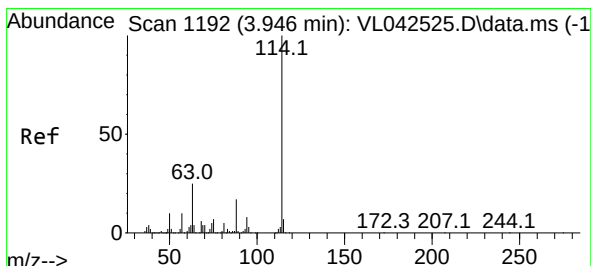
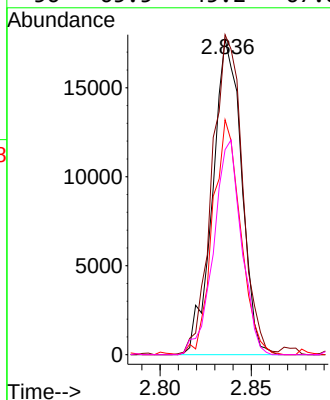
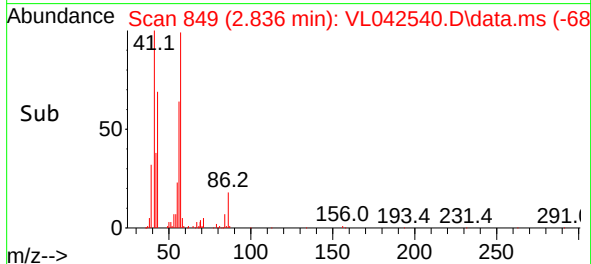
Instrument :
MSVOA_L
ClientSampleId :
SV1



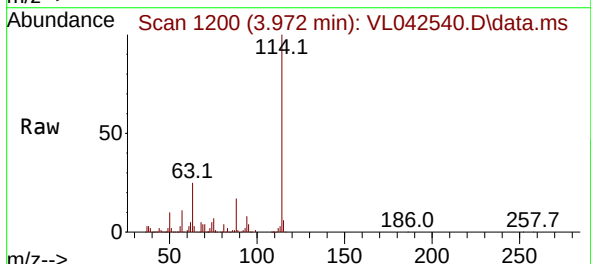
Tgt Ion: 57 Resp: 19490
Ion Ratio Lower Upper
57 100
41 107.9 76.1 114.1
43 73.2 188.9 283.3
56 65.5 45.2 67.8

Manual Integrations
APPROVED

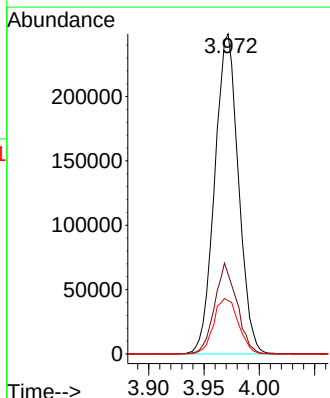
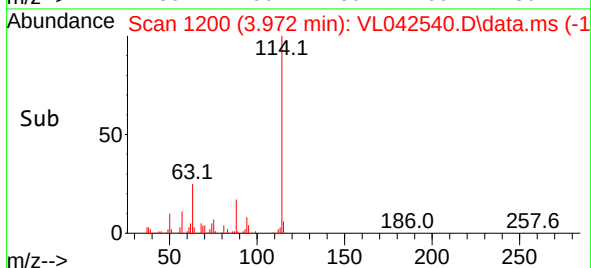
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

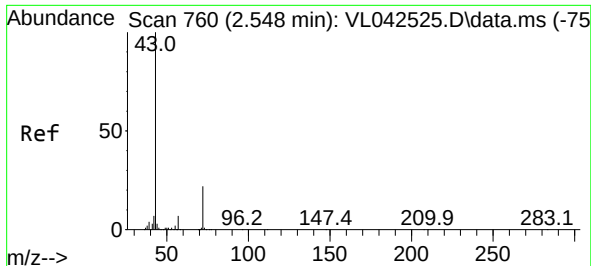


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.972 min Scan# 1200
Delta R.T. 0.026 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12



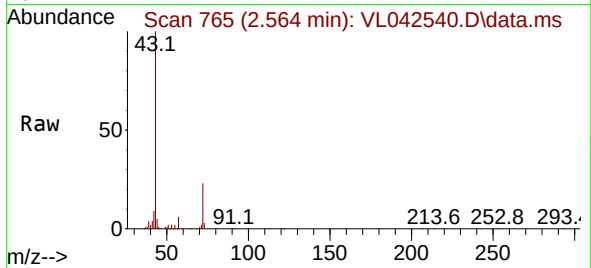
Tgt Ion:114 Resp: 371118
Ion Ratio Lower Upper
114 100
63 26.6 20.4 30.6
88 18.0 14.5 21.7





#34
2-Butanone
Concen: 1.405 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.016 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

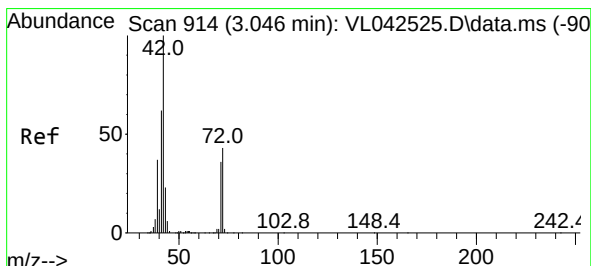
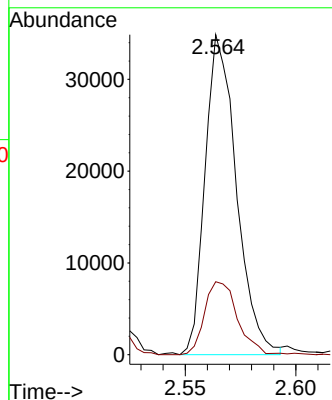
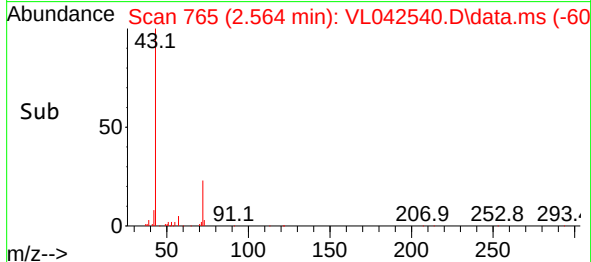
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 34360
Ion Ratio Lower Upper
43 100
72 24.1 18.7 28.1

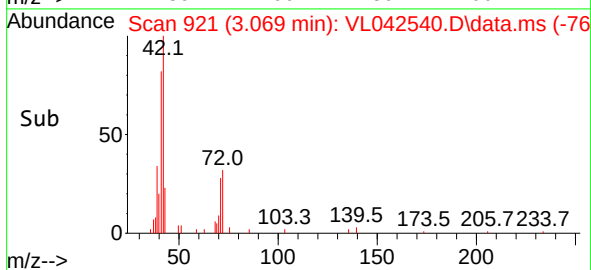
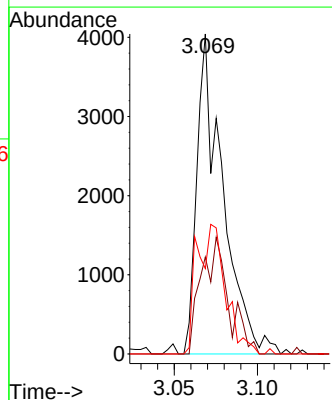
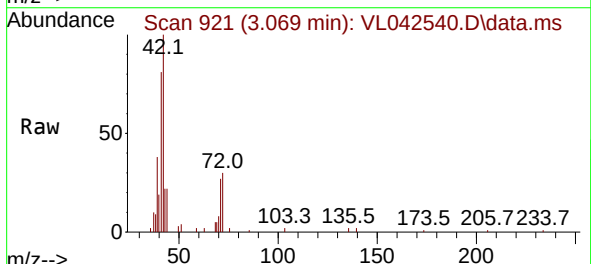
Manual Integrations
APPROVED

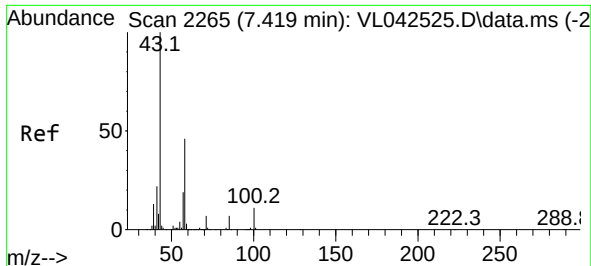
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#41
Tetrahydrofuran
Concen: 0.411 ppbv m
RT: 3.069 min Scan# 921
Delta R.T. 0.023 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

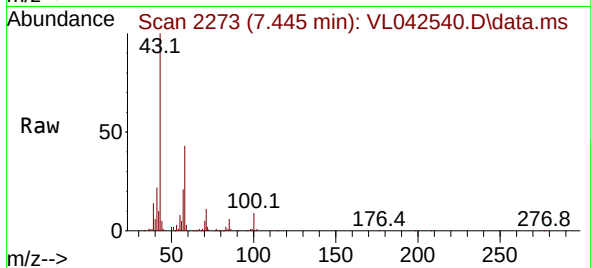
Tgt Ion: 42 Resp: 4353
Ion Ratio Lower Upper
42 100
72 0.0 32.7 49.1#
71 0.0 30.4 45.6#





#51
2-Hexanone
Concen: 3.433 ppbv m
RT: 7.445 min Scan# 2117
Delta R.T. 0.026 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

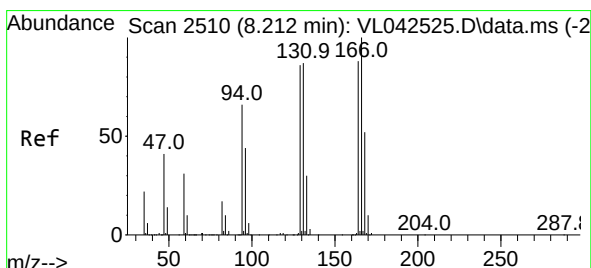
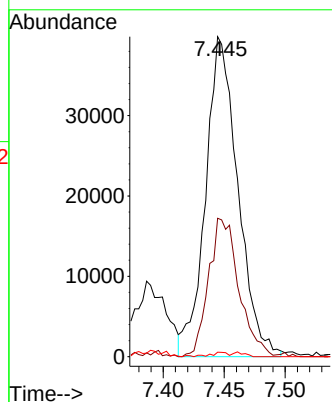
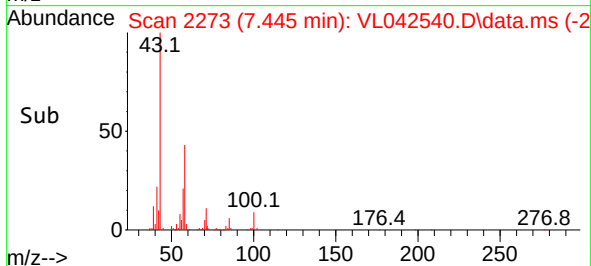
Instrument :
MSVOA_L
ClientSampleId :
SV1



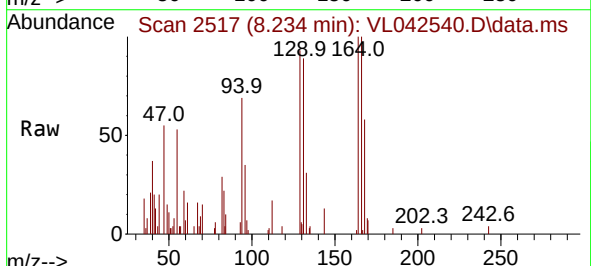
Tgt Ion: 43 Resp: 73358
Ion Ratio Lower Upper
43 100
58 40.8 37.5 56.3
98 1.2 0.9 1.3

Manual Integrations
APPROVED

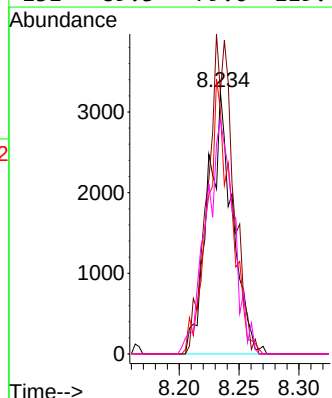
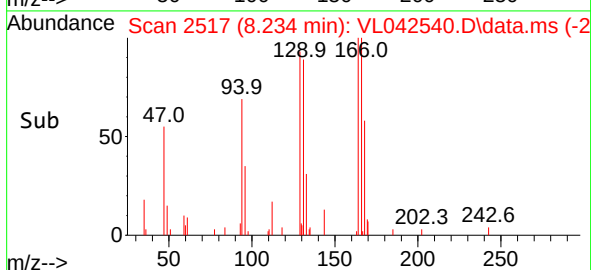
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

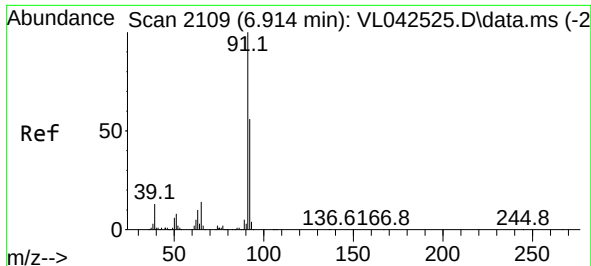


#52
Tetrachloroethene
Concen: 0.369 ppbv m
RT: 8.234 min Scan# 2517
Delta R.T. 0.023 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12



Tgt Ion:164 Resp: 4645
Ion Ratio Lower Upper
164 100
166 99.7 91.3 136.9
129 93.2 78.9 118.3
131 89.3 79.6 119.4





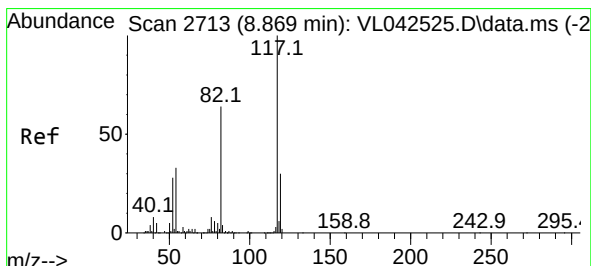
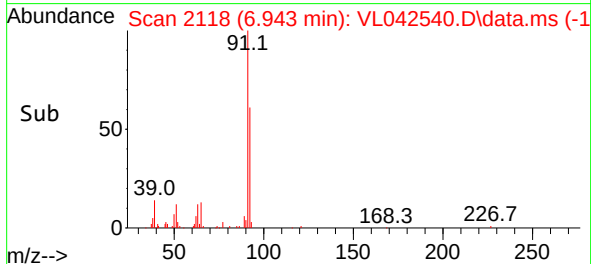
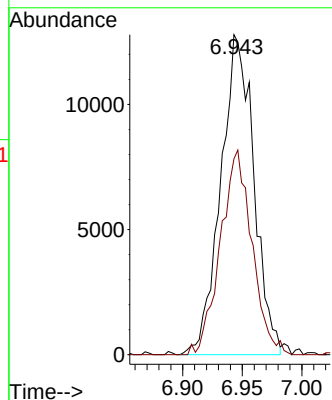
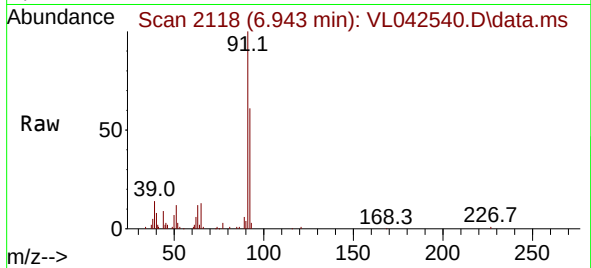
#53
Toluene
Concen: 0.764 ppbv
RT: 6.943 min Scan# 2109
Delta R.T. 0.029 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 2465
Ion Ratio Lower Upper
91 100
92 61.2 47.8 71.6

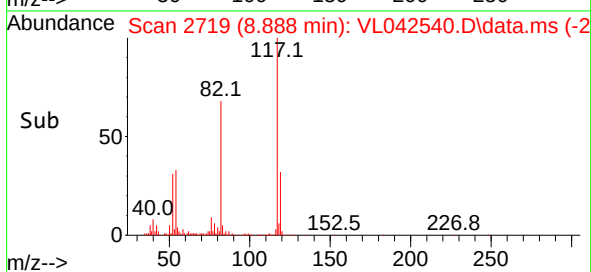
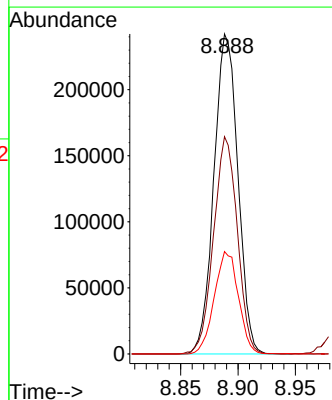
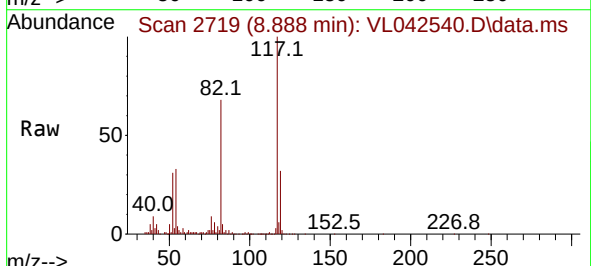
Manual Integrations
APPROVED

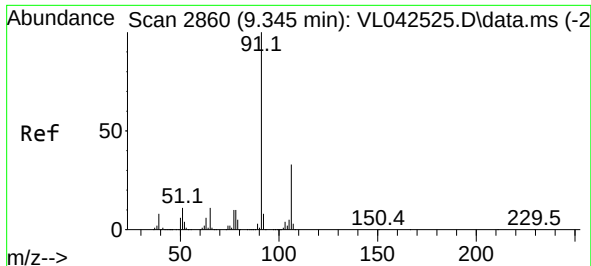
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.019 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

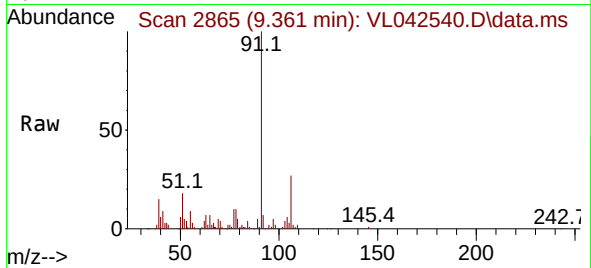
Tgt Ion:117 Resp: 351568
Ion Ratio Lower Upper
117 100
82 67.4 55.0 82.4
119 32.3 25.8 38.6





#58
Ethyl Benzene
Concen: 0.708 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.016 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

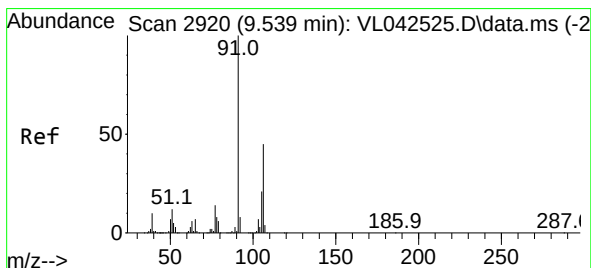
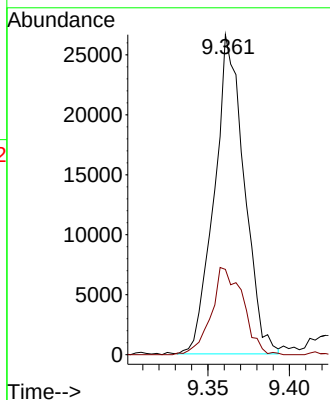
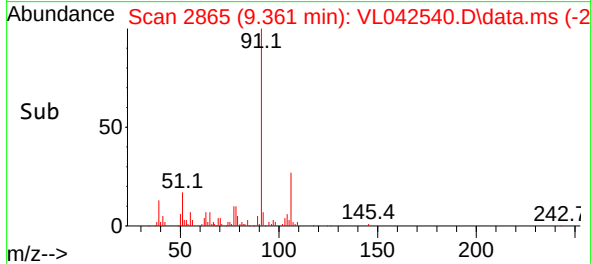
Instrument :
MSVOA_L
ClientSampleId :
SV1



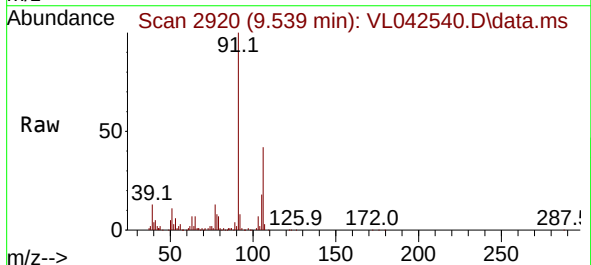
Tgt Ion: 91 Resp: 3394
Ion Ratio Lower Upper
91 100
106 26.3 26.0 39.0

Manual Integrations
APPROVED

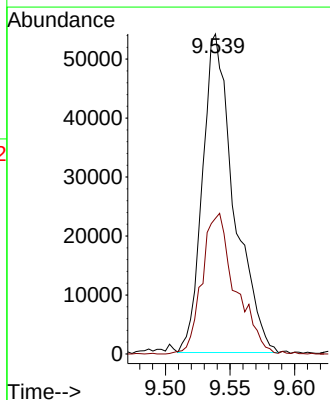
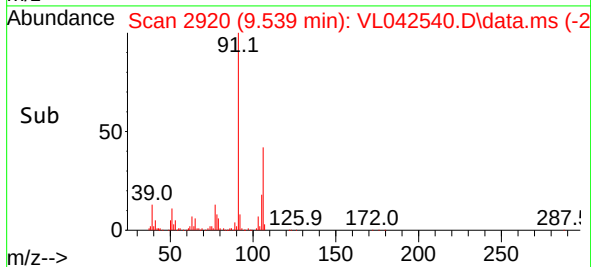
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

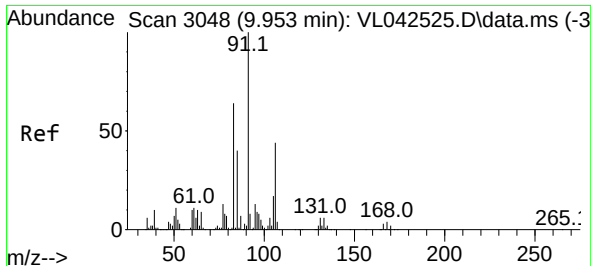


#59
m/p-Xylene
Concen: 2.163 ppbv
RT: 9.539 min Scan# 2920
Delta R.T. -0.000 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12



Tgt Ion: 91 Resp: 92047
Ion Ratio Lower Upper
91 100
106 46.7 0.0 0.0#





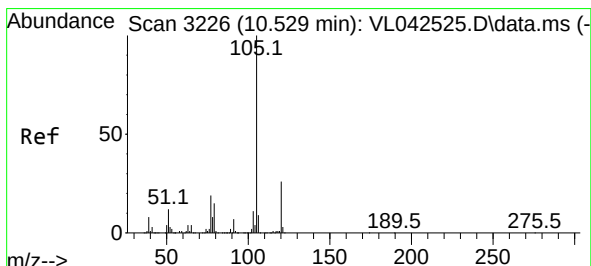
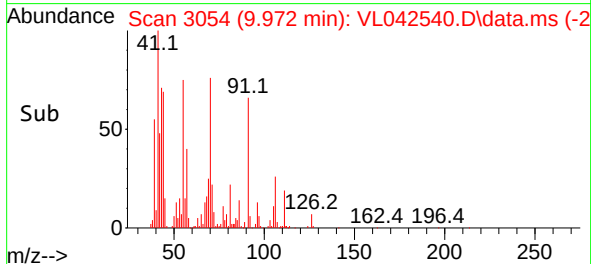
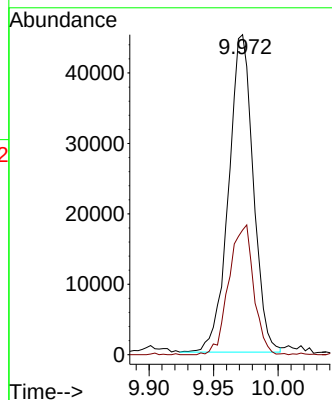
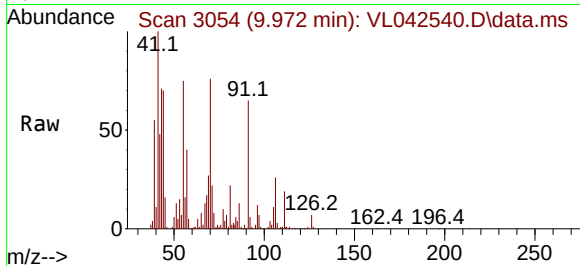
#60
o-Xylene
Concen: 1.443 ppbv
RT: 9.972 min Scan# 3048
Delta R.T. 0.019 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 5998
Ion Ratio Lower Upper
91 100
106 41.2 21.6 64.6

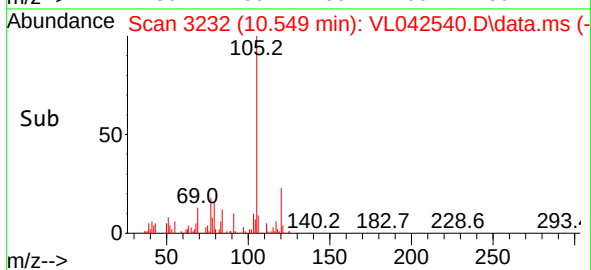
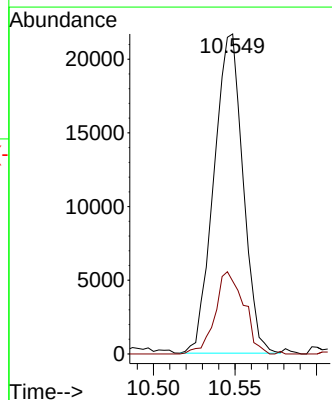
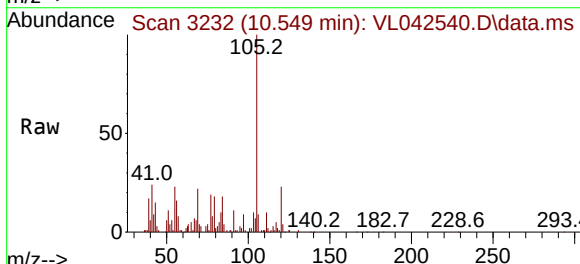
Manual Integrations
APPROVED

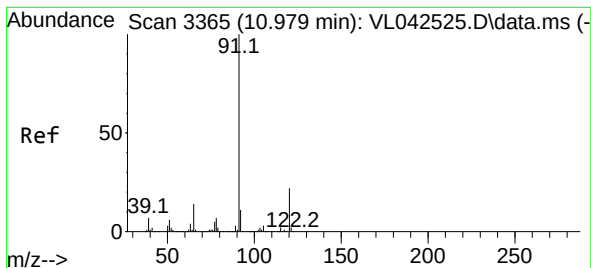
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#62
Isopropylbenzene
Concen: 0.430 ppbv
RT: 10.549 min Scan# 3232
Delta R.T. 0.019 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

Tgt Ion:105 Resp: 26923
Ion Ratio Lower Upper
105 100
120 25.6 20.1 30.1





#64

n-propylbenzene

Concen: 1.236 ppbv

RT: 10.995 min Scan# 31

Delta R.T. 0.016 min

Lab File: VL042540.D

Acq: 14 May 2025 13:12

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:120 Resp: 19640

Ion Ratio Lower Upper

120 100

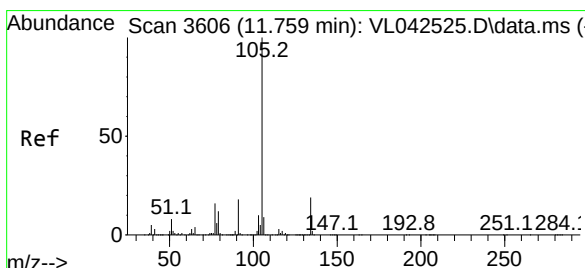
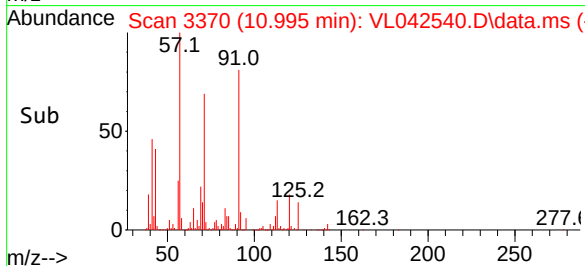
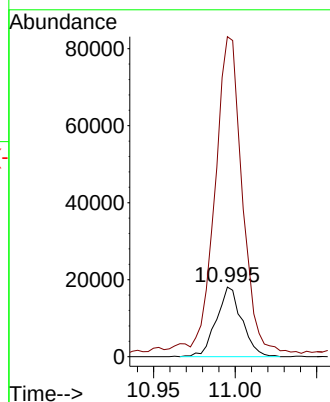
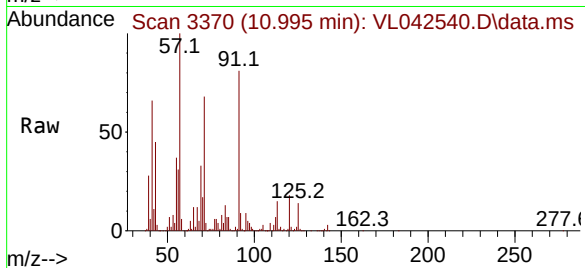
91 508.9 377.7 566.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#67

sec-Butylbenzene

Concen: 0.710 ppbv m

RT: 11.772 min Scan# 3610

Delta R.T. 0.013 min

Lab File: VL042540.D

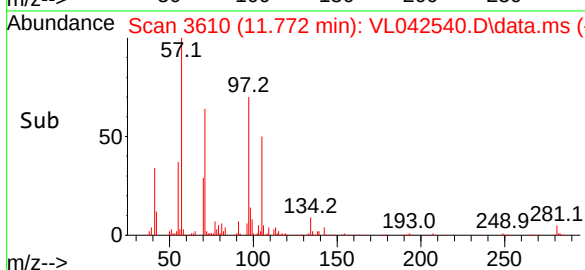
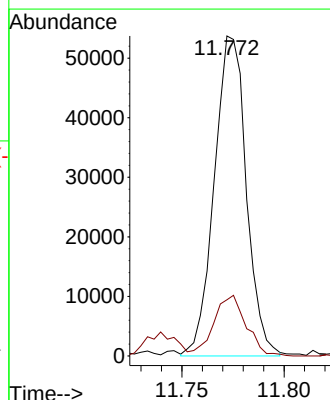
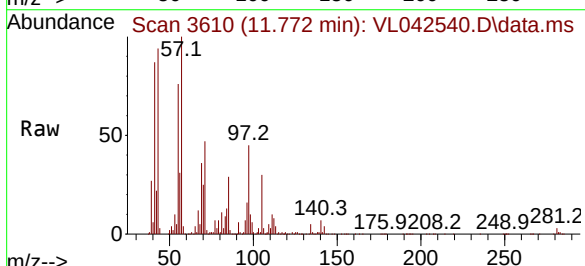
Acq: 14 May 2025 13:12

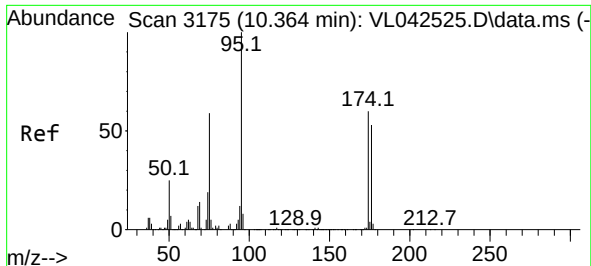
Tgt Ion:105 Resp: 58550

Ion Ratio Lower Upper

105 100

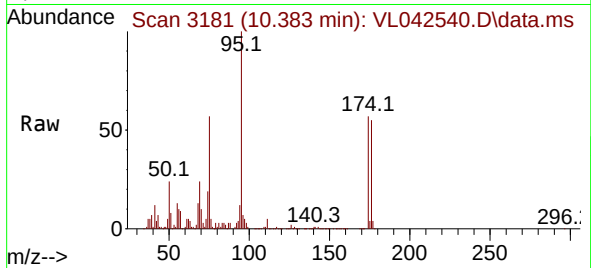
134 18.7 14.9 22.3





#68
1-Bromo-4-Fluorobenzene
Concen: 9.951 ppbv
RT: 10.383 min Scan# 3175
Delta R.T. 0.019 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

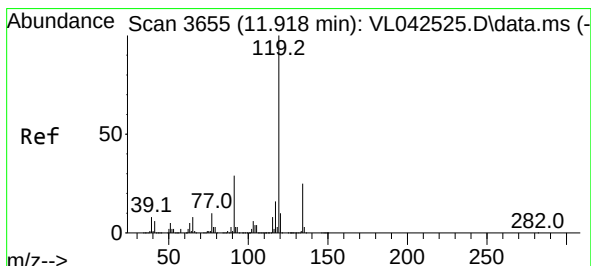
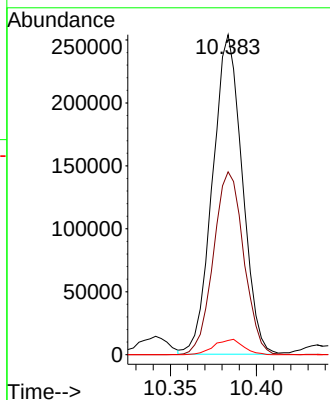
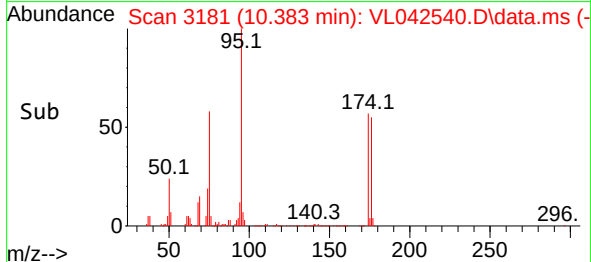
Instrument :
MSVOA_L
ClientSampleId :
SV1



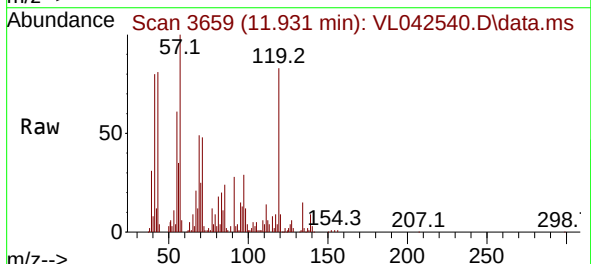
Tgt Ion: 95 Resp: 30441
Ion Ratio Lower Upper
95 100
174 58.5 48.0 72.0
175 4.7 3.5 5.3

Manual Integrations
APPROVED

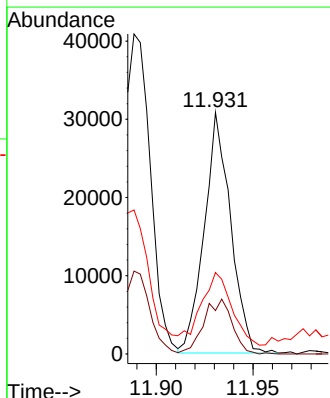
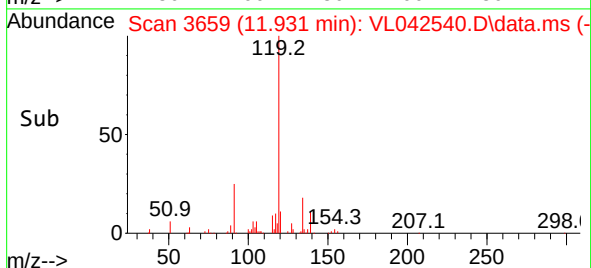
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

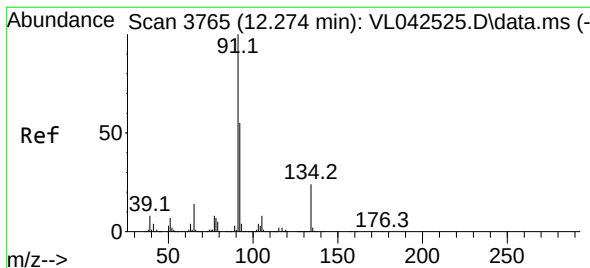


#69
p-Isopropyltoluene
Concen: 0.430 ppbv
RT: 11.931 min Scan# 3659
Delta R.T. 0.013 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12



Tgt Ion:119 Resp: 29161
Ion Ratio Lower Upper
119 100
134 24.7 19.8 29.6
91 35.2 23.6 35.4





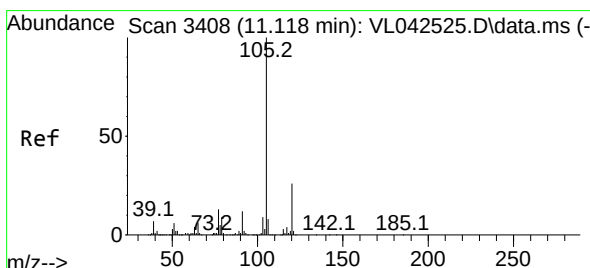
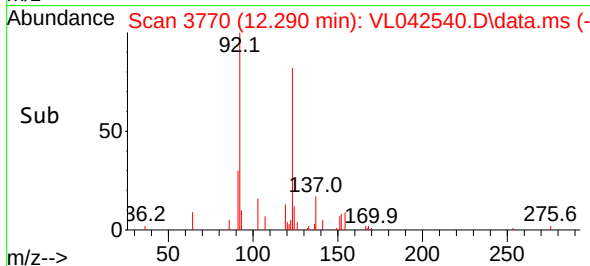
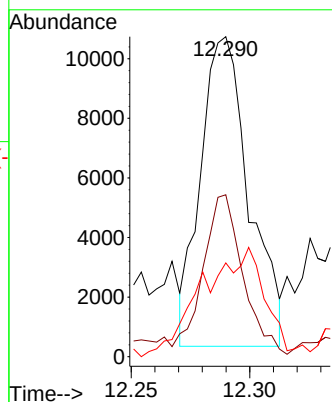
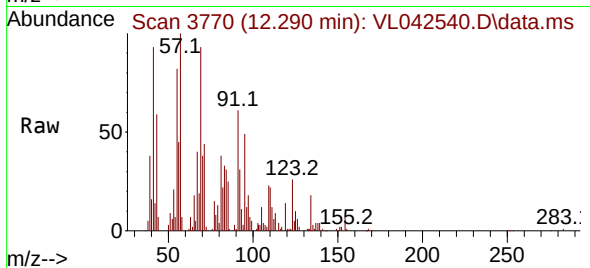
#70
n-Butylbenzene
Concen: 0.222 ppbv m
RT: 12.290 min Scan# 31
Delta R.T. 0.016 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 1484
Ion Ratio Lower Upper
91 100
92 39.2 43.7 65.5
134 46.1 18.9 28.3

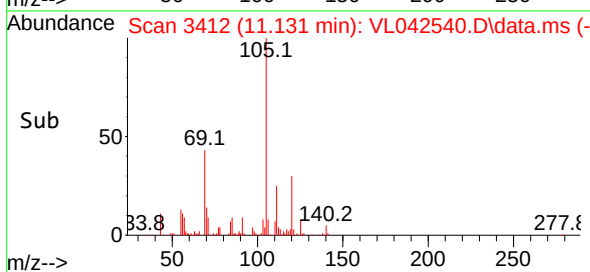
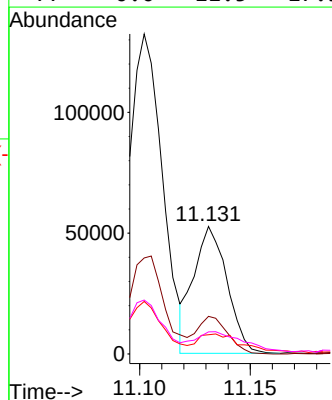
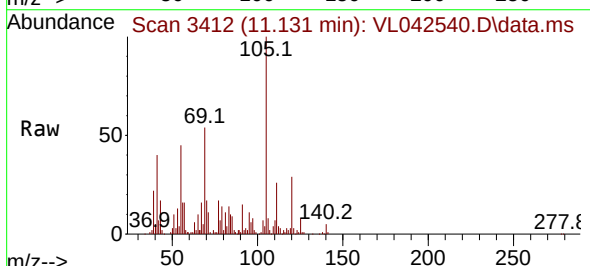
Manual Integrations
APPROVED

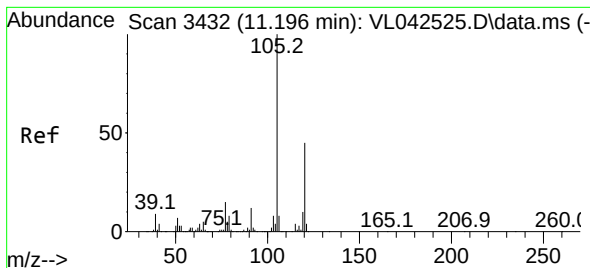
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#72
4-Ethyltoluene
Concen: 1.074 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.013 min
Lab File: VL042540.D
Acq: 14 May 2025 13:12

Tgt Ion:105 Resp: 55381
Ion Ratio Lower Upper
105 100
120 0.0 22.9 34.3#
91 0.0 10.9 16.3#
77 0.0 11.5 17.3#





#73

1,3,5-Trimethylbenzene

Concen: 1.434 ppbv

RT: 11.209 min Scan# 3432

Delta R.T. 0.013 min

Lab File: VL042540.D

Acq: 14 May 2025 13:12

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:105 Resp: 64408

Ion Ratio Lower Upper

105 100

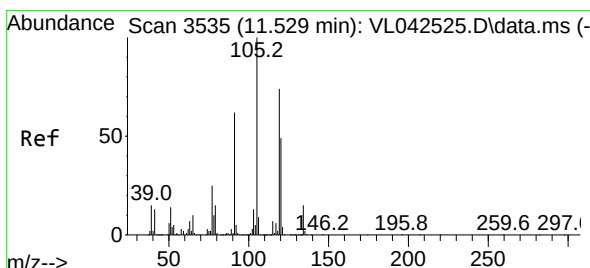
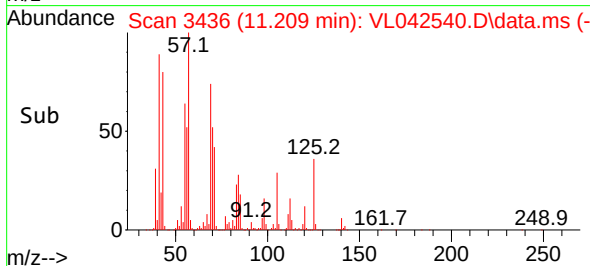
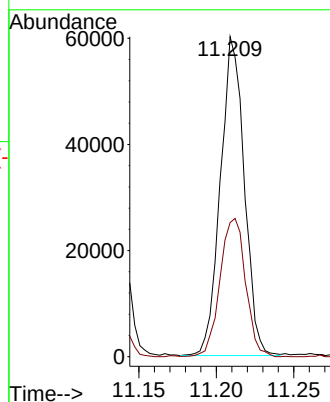
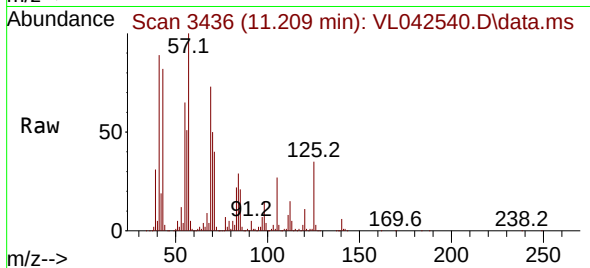
120 42.1 36.0 54.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#74

1,2,4-Trimethylbenzene

Concen: 2.859 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.013 min

Lab File: VL042540.D

Acq: 14 May 2025 13:12

Tgt Ion:105 Resp: 157948

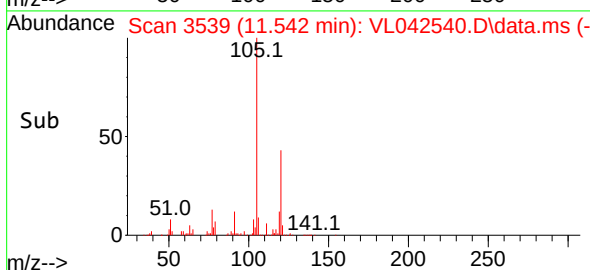
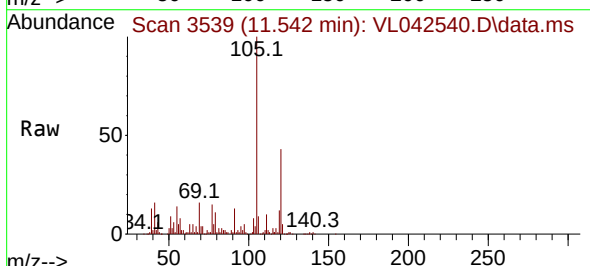
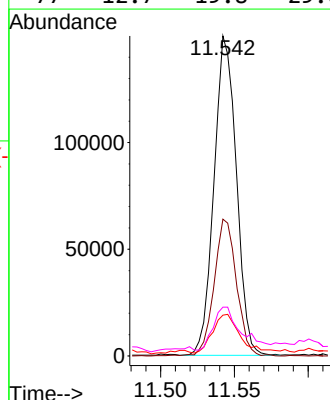
Ion Ratio Lower Upper

105 100

120 42.8 39.0 58.6

91 11.2 49.4 74.2#

77 12.7 19.8 29.6#



Report of Analysis

Client:	GFE LLC	Date Collected:	05/09/25
Project:	12 Maplewood St, Malden MA	Date Received:	05/12/25
Client Sample ID:	IA1	SDG No.:	Q2011
Lab Sample ID:	Q2011-02	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042539.D	1		05/14/25 12:40	VL051425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.50			65 - 135	95%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	122000		2.79			
540-36-3	1,4-Difluorobenzene	350000		3.965			
3114-55-4	Chlorobenzene-d5	298000		8.888			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
 Data File : VL042539.D
 Acq On : 14 May 2025 12:40
 Operator : SY/MD
 Sample : Q2011-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025

Quant Time: May 15 01:33:36 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

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

QLast Update : Tue May 13 02:07:03 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	122046	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.965	114	349665	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.888	117	298337	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	247100	9.519	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	8382	0.423	ppbv	97
3) Chlorodifluoromethane	1.476	51	4056m	0.201	ppbv	
4) Chloromethane	1.534	50	4062	0.502	ppbv #	88
9) Propene	1.489	41	18933	4.323	ppbv #	1
11) Trichlorofluoromethane	1.881	101	3779	0.198	ppbv #	71
13) Ethanol	1.722	45	20881	17.724	ppbv	97
15) Acetone	1.835	43	760803	38.674	ppbv	100
19) Isopropyl Alcohol	1.891	45	20435	1.929	ppbv #	1
20) Methylene Chloride	2.065	84	3039	0.448	ppbv	89
26) Hexane	2.829	57	1584	0.113	ppbv #	68
34) 2-Butanone	2.564	43	8562	0.371	ppbv	97
35) Carbon Tetrachloride	3.768	117	2175m	0.069	ppbv	
36) Benzene	3.664	78	3668	0.118	ppbv #	86
53) Toluene	6.940	91	5095m	0.168	ppbv	
76) 1,4-Dichlorobenzene	11.678	146	45709	1.636	ppbv	97

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

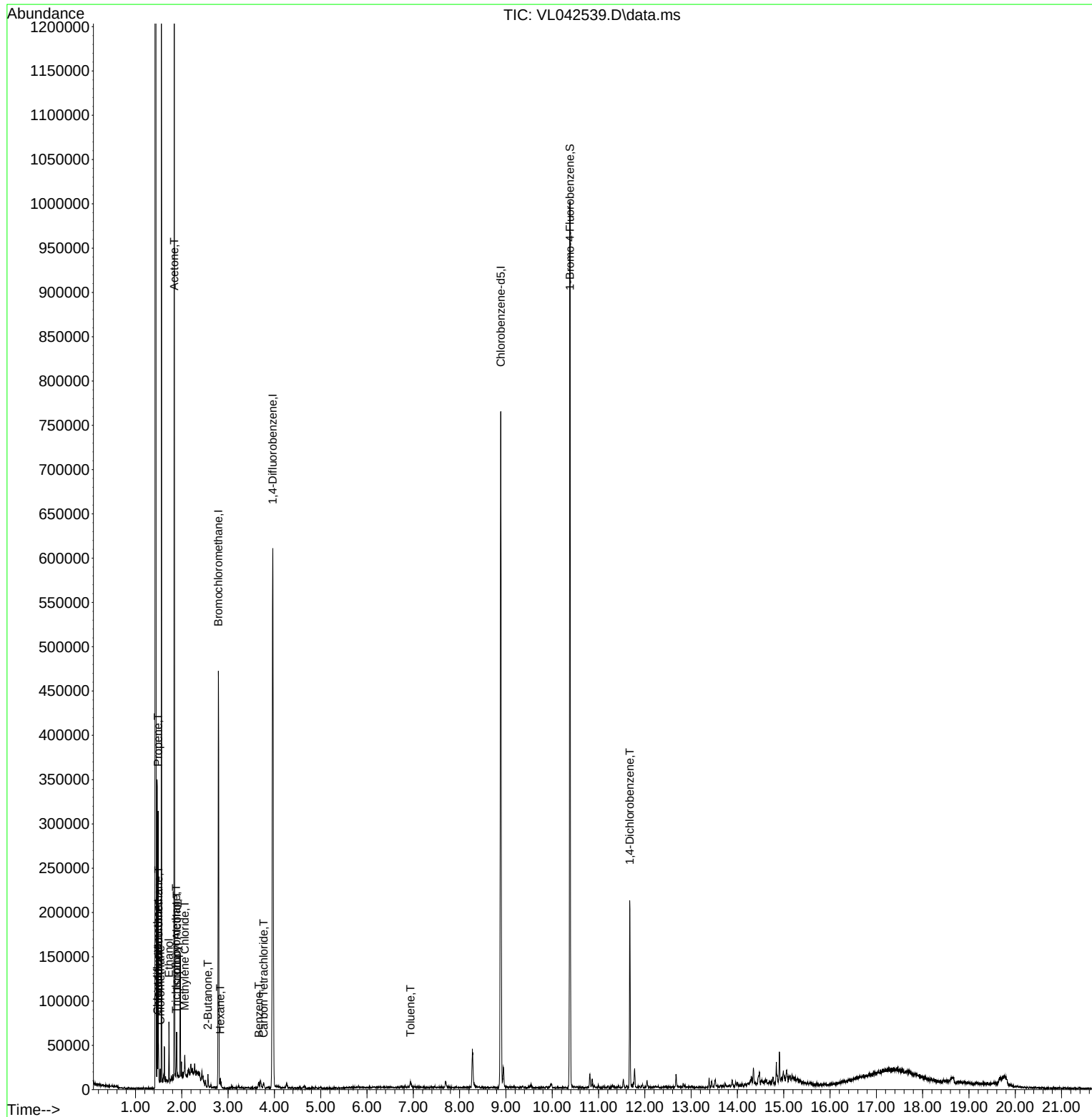
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
Data File : VL042539.D
Acq On : 14 May 2025 12:40
Operator : SY/MD
Sample : Q2011-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

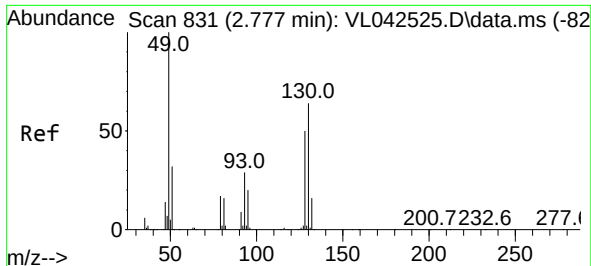
Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: May 15 01:33:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue May 13 02:07:03 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 05/15/2025
Supervised By : Mahesh Dadoda 05/15/2025





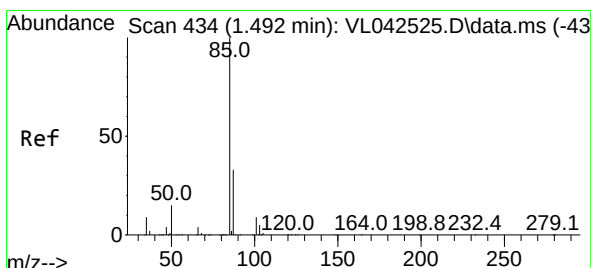
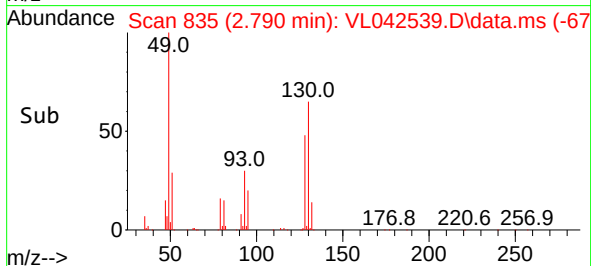
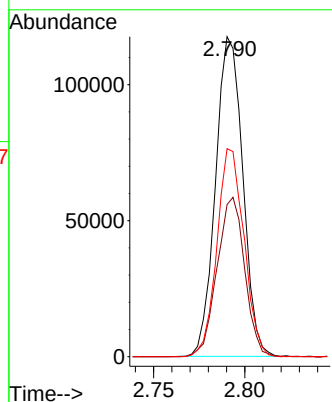
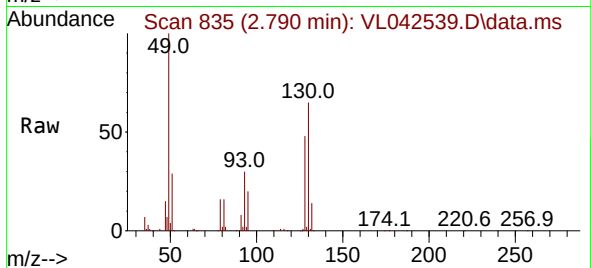
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL042539.D
Acq: 14 May 2025 12:40

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 49 Resp: 122040
Ion Ratio Lower Upper
49 100
128 50.5 24.9 74.6
130 64.6 32.5 97.5

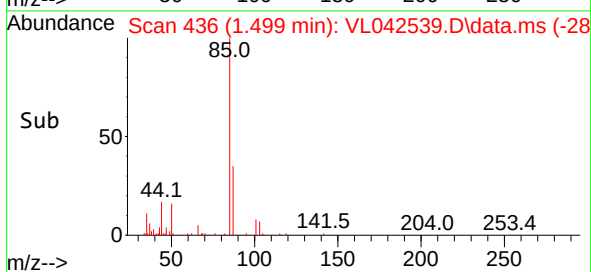
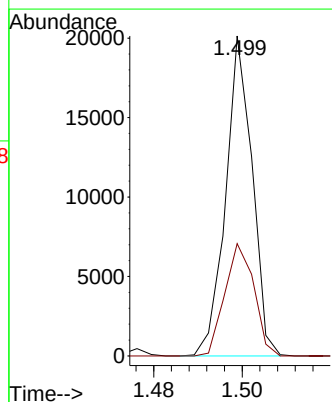
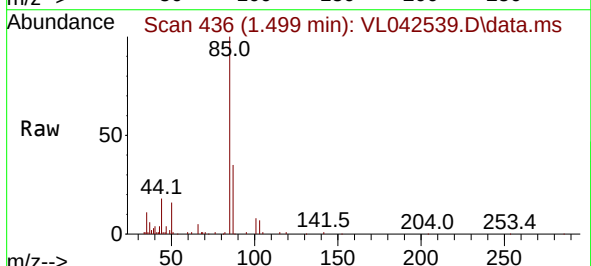
Manual Integrations
APPROVED

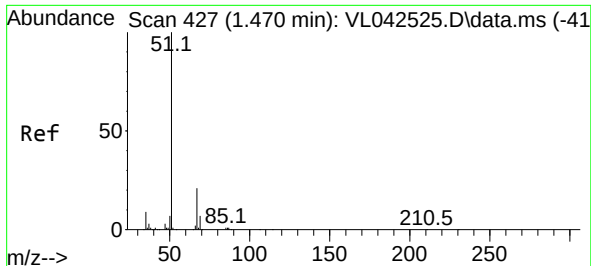
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#2
Dichlorodifluoromethane
Concen: 0.423 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.006 min
Lab File: VL042539.D
Acq: 14 May 2025 12:40

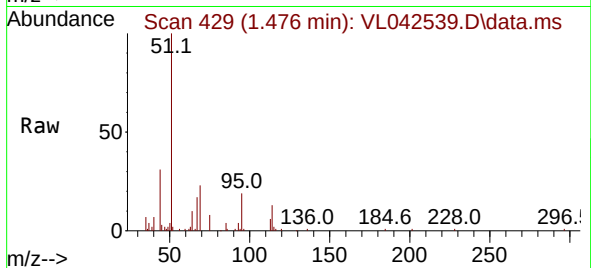
Tgt Ion: 85 Resp: 8382
Ion Ratio Lower Upper
85 100
87 35.1 26.8 40.2





#3
Chlorodifluoromethane
Concen: 0.201 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042539.D
Acq: 14 May 2025 12:40

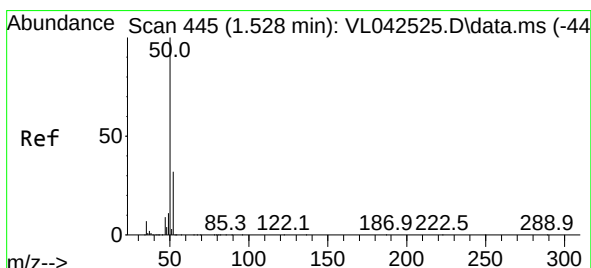
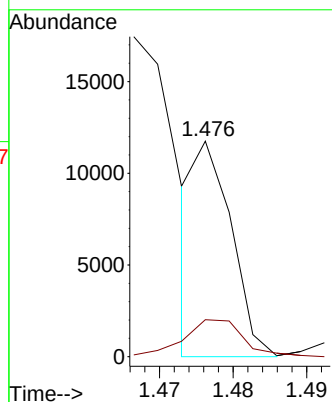
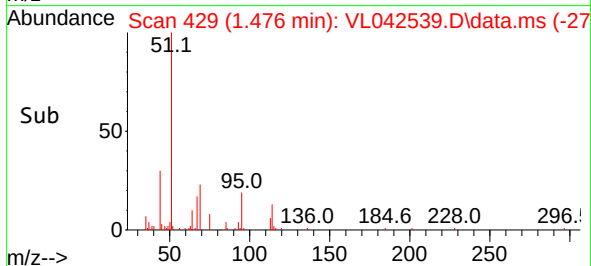
Instrument :
MSVOA_L
ClientSampleId :
IA1



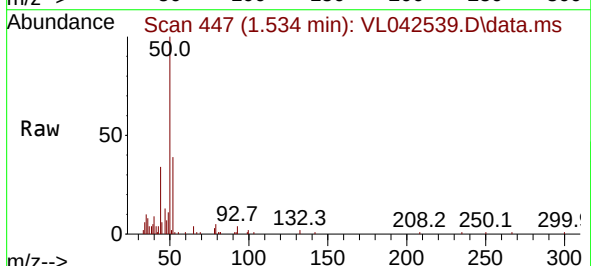
Tgt Ion: 51 Resp: 4050
Ion Ratio Lower Upper
51 100
67 28.4 17.4 26.0

Manual Integrations
APPROVED

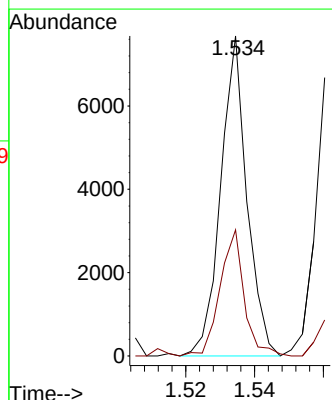
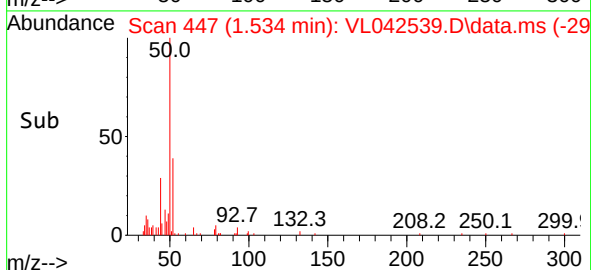
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

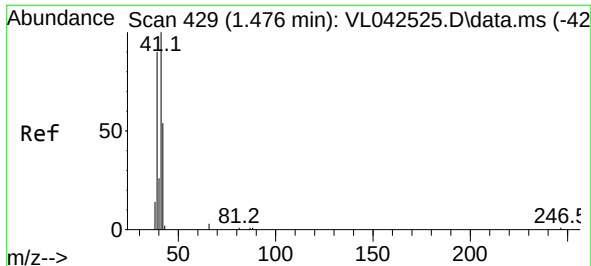


#4
Chloromethane
Concen: 0.502 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.006 min
Lab File: VL042539.D
Acq: 14 May 2025 12:40



Tgt Ion: 50 Resp: 4062
Ion Ratio Lower Upper
50 100
52 39.4 25.9 38.9





#9

Propene

Concen: 4.323 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.013 min

Lab File: VL042539.D

Acq: 14 May 2025 12:40

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 41 Resp: 1893

Ion Ratio Lower Upper

41 100

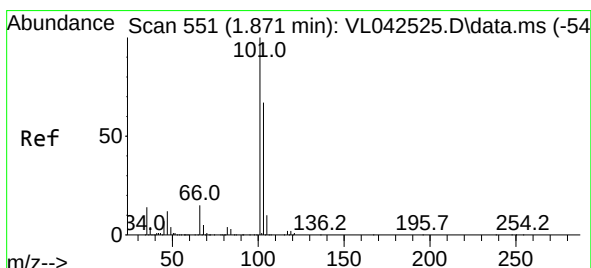
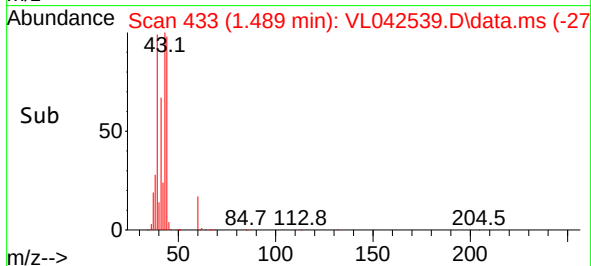
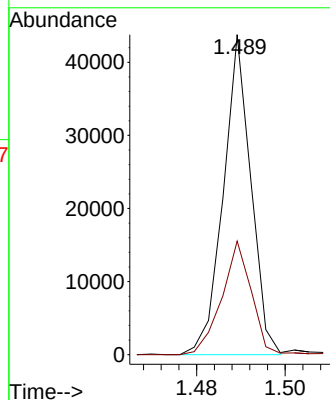
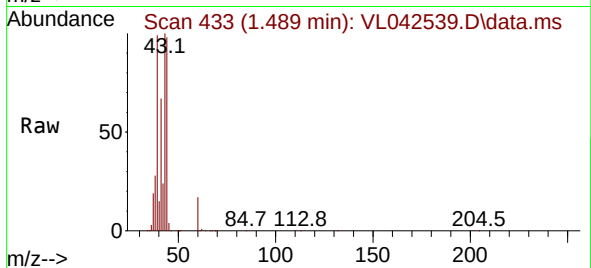
42 39.4 4.1 6.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#11

Trichlorofluoromethane

Concen: 0.198 ppbv

RT: 1.881 min Scan# 554

Delta R.T. 0.010 min

Lab File: VL042539.D

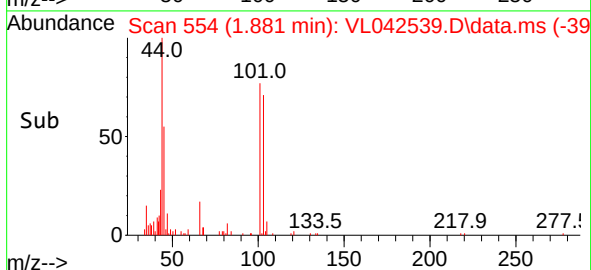
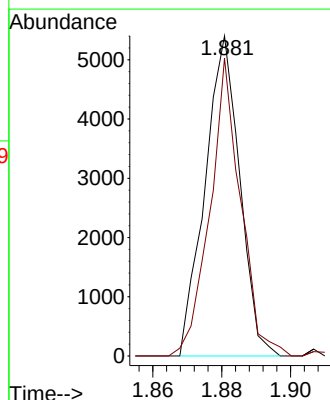
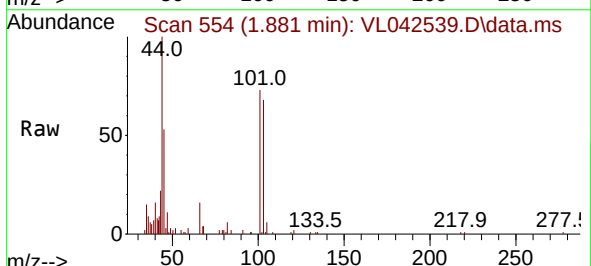
Acq: 14 May 2025 12:40

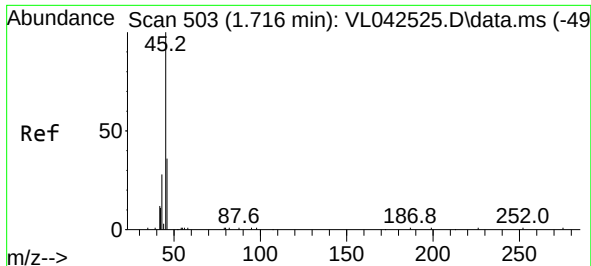
Tgt Ion:101 Resp: 3779

Ion Ratio Lower Upper

101 100

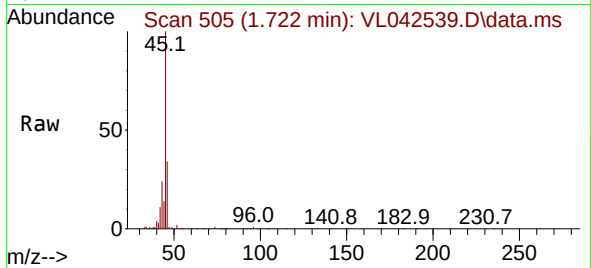
103 90.6 53.8 80.6





#13
Ethanol
Concen: 17.724 ppbv
RT: 1.722 min Scan# 503
Delta R.T. 0.006 min
Lab File: VL042539.D
Acq: 14 May 2025 12:40

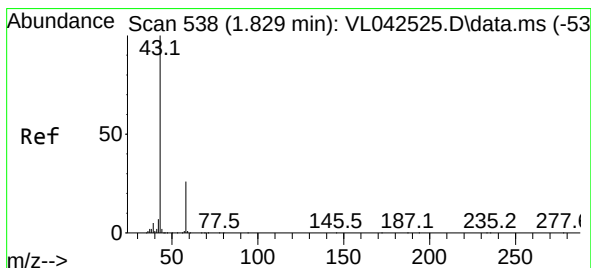
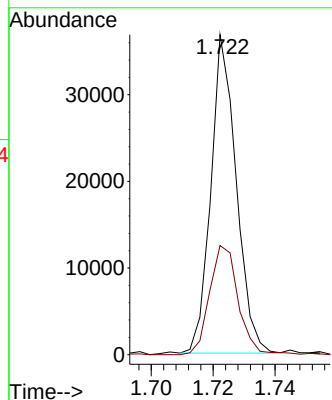
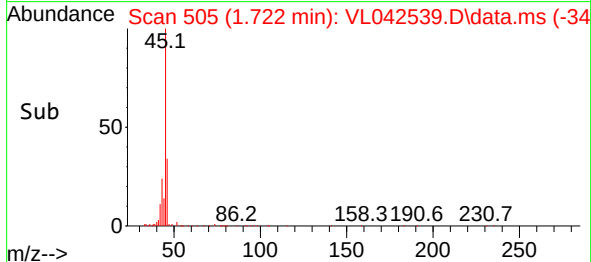
Instrument :
MSVOA_L
ClientSampleId :
IA1



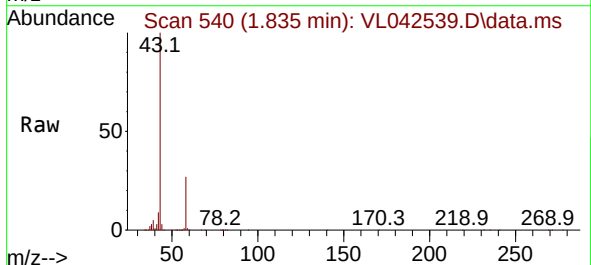
Tgt Ion: 45 Resp: 2088
Ion Ratio Lower Upper
45 100
46 39.2 14.8 59.4

Manual Integrations
APPROVED

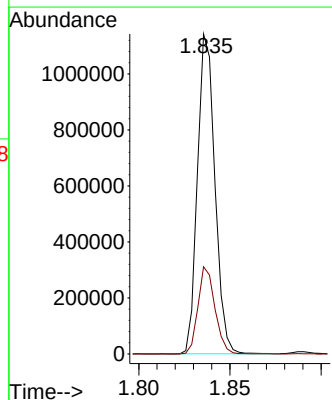
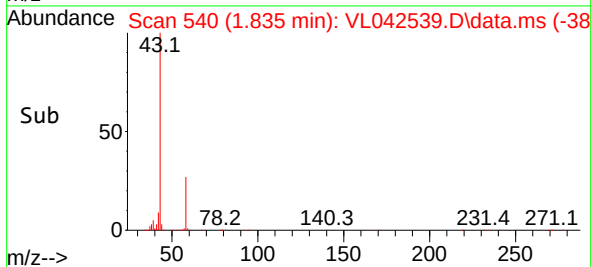
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

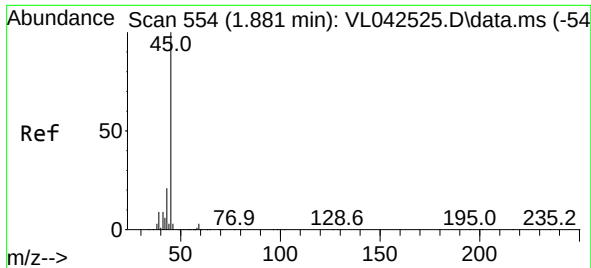


#15
Acetone
Concen: 38.674 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.006 min
Lab File: VL042539.D
Acq: 14 May 2025 12:40



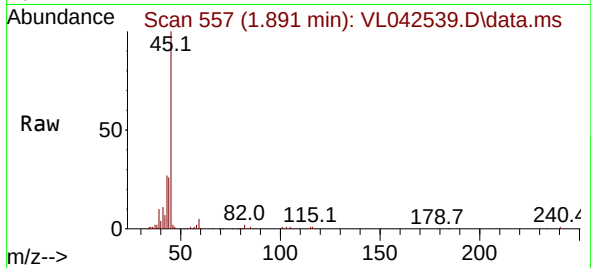
Tgt Ion: 43 Resp: 760803
Ion Ratio Lower Upper
43 100
58 26.5 21.3 31.9





#19
Isopropyl Alcohol
Concen: 1.929 ppbv
RT: 1.891 min Scan# 510
Delta R.T. 0.010 min
Lab File: VL042539.D
Acq: 14 May 2025 12:40

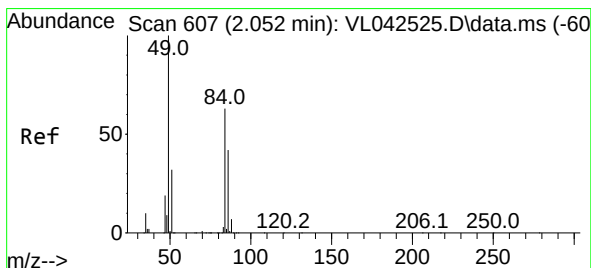
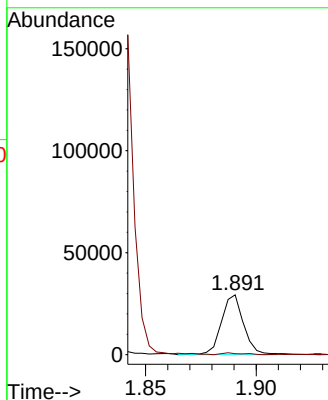
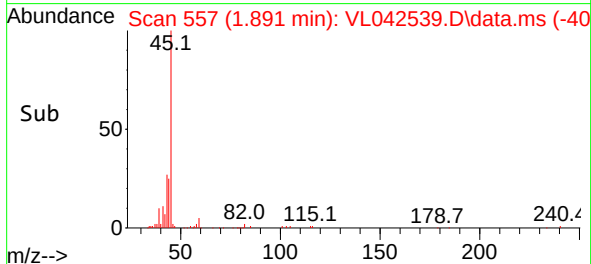
Instrument :
MSVOA_L
ClientSampleId :
IA1



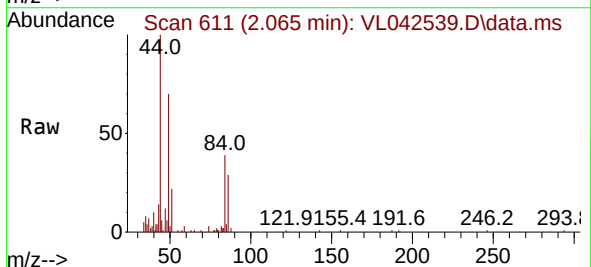
Tgt Ion: 45 Resp: 2043
Ion Ratio Lower Upper
45 100
58 991.3 1.5 2.3

Manual Integrations
APPROVED

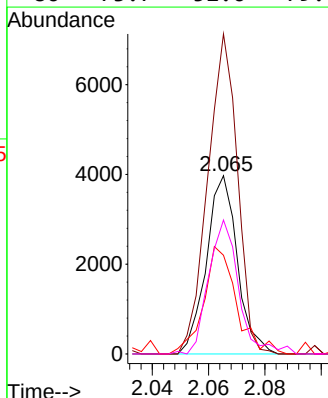
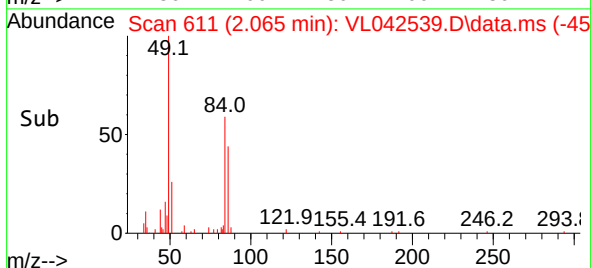
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

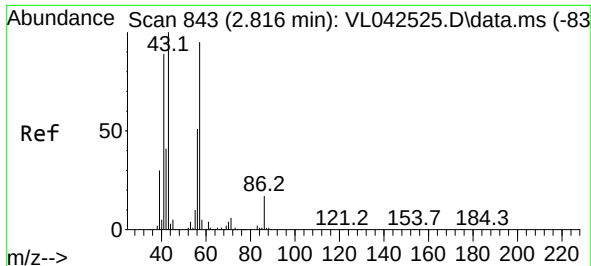


#20
Methylene Chloride
Concen: 0.448 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.013 min
Lab File: VL042539.D
Acq: 14 May 2025 12:40



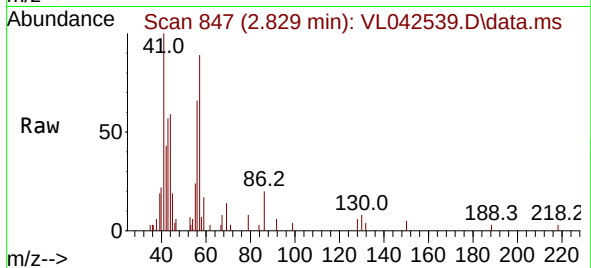
Tgt Ion: 84 Resp: 3039
Ion Ratio Lower Upper
84 100
49 179.6 128.2 192.4
51 53.6 41.7 62.5
86 73.7 52.6 79.0





#26
Hexane
Concen: 0.113 ppbv
RT: 2.829 min Scan# 843
Delta R.T. 0.013 min
Lab File: VL042539.D
Acq: 14 May 2025 12:40

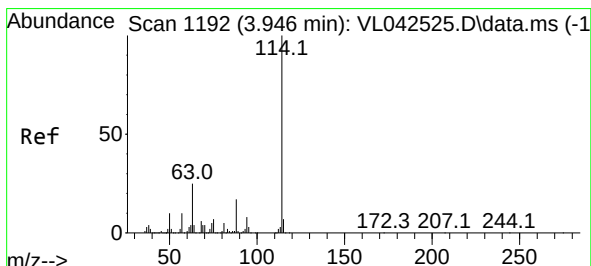
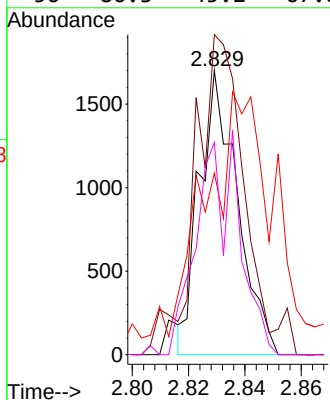
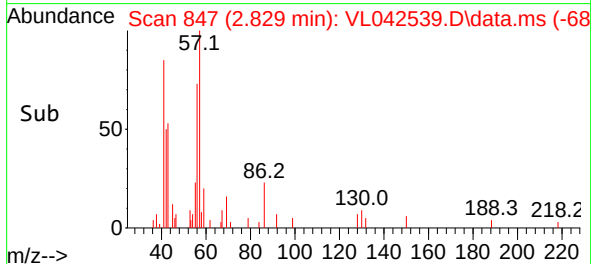
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 57 Resp: 1584
Ion Ratio Lower Upper
57 100
41 146.5 76.1 114.1
43 201.0 188.9 283.3
56 86.3 45.2 67.8#

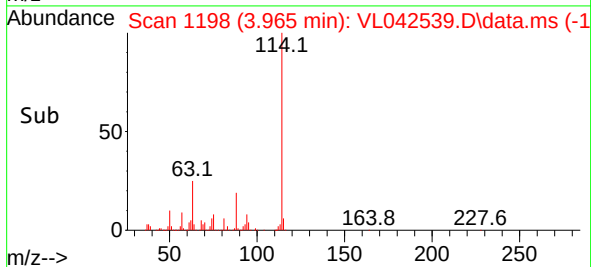
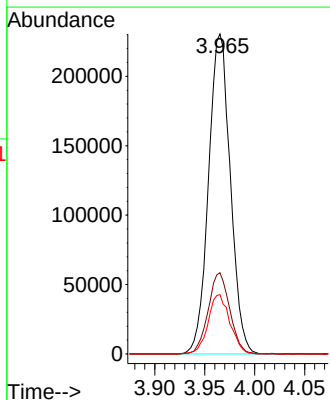
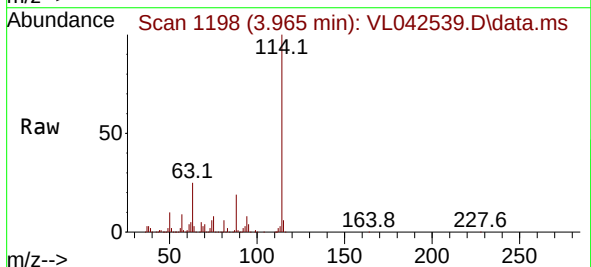
Manual Integrations
APPROVED

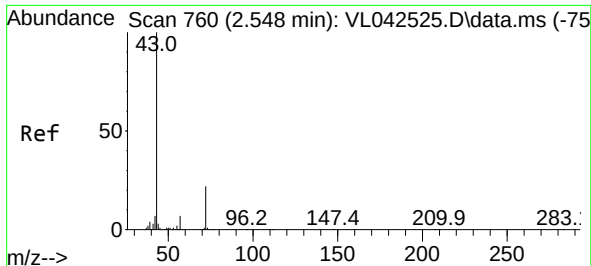
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.019 min
Lab File: VL042539.D
Acq: 14 May 2025 12:40

Tgt Ion:114 Resp: 349665
Ion Ratio Lower Upper
114 100
63 25.2 20.4 30.6
88 18.6 14.5 21.7





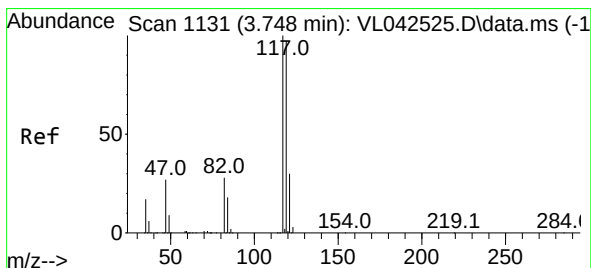
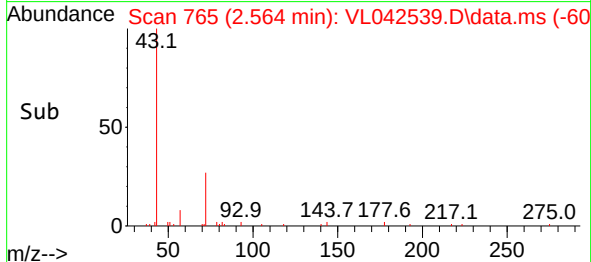
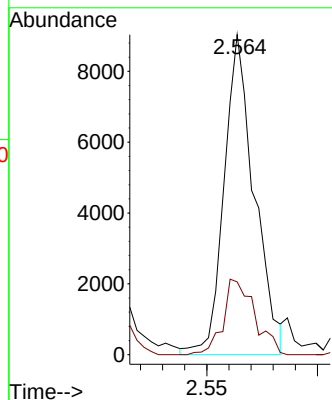
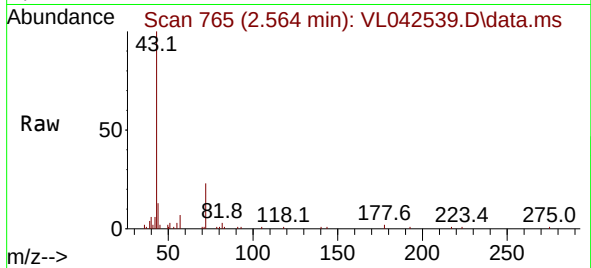
#34
2-Butanone
Concen: 0.371 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.016 min
Lab File: VL042539.D
Acq: 14 May 2025 12:40

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp: 856
Ion Ratio Lower Upper
43 100
72 24.7 18.7 28.1

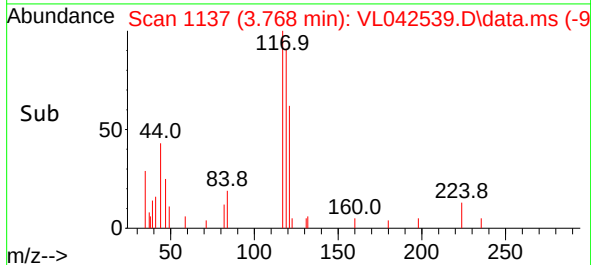
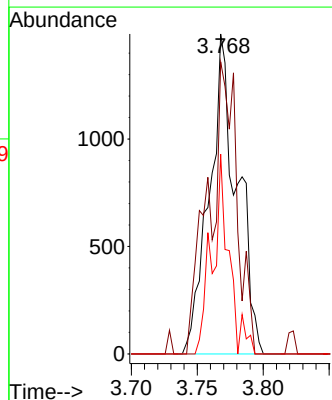
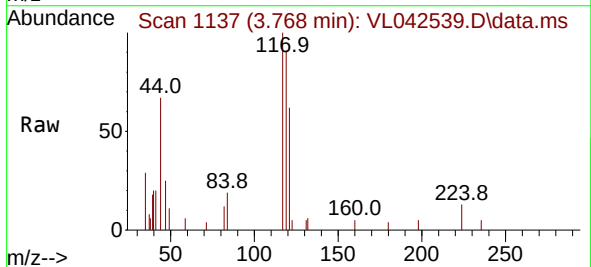
Manual Integrations
APPROVED

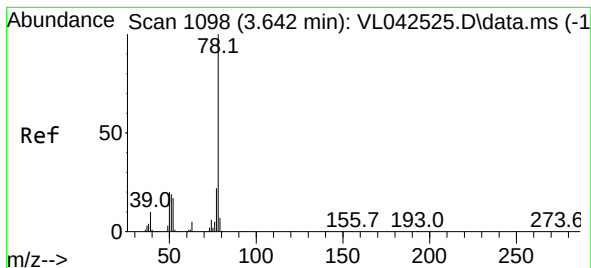
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#35
Carbon Tetrachloride
Concen: 0.069 ppbv m
RT: 3.768 min Scan# 1137
Delta R.T. 0.019 min
Lab File: VL042539.D
Acq: 14 May 2025 12:40

Tgt Ion:117 Resp: 2175
Ion Ratio Lower Upper
117 100
119 91.3 77.7 116.5
121 62.5 24.0 36.0#





#36

Benzene

Concen: 0.118 ppbv

RT: 3.664 min Scan# 1105

Delta R.T. 0.023 min

Lab File: VL042539.D

Acq: 14 May 2025 12:40

Instrument :

MSVOA_L

ClientSampleId :

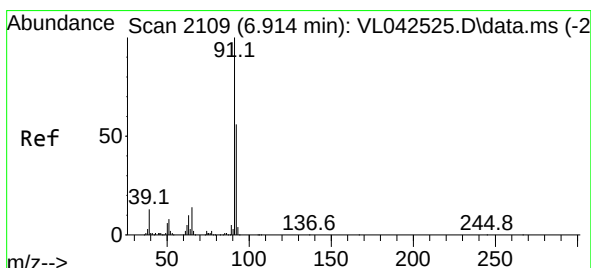
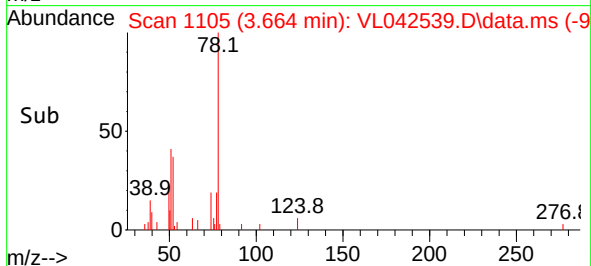
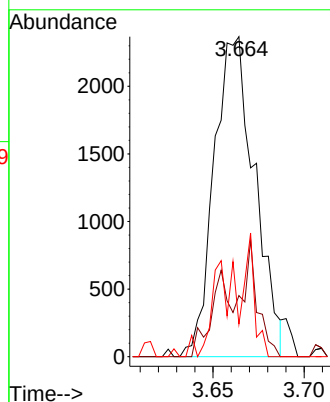
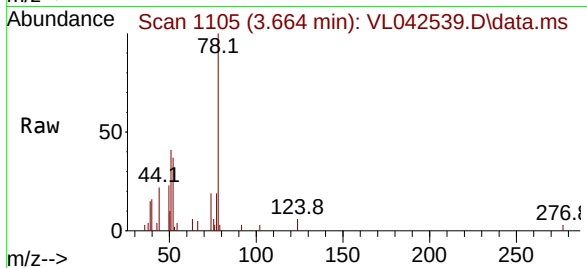
IA1

Tgt Ion: 78	Resp: 366
Ion Ratio	Lower Upper
78 100	
77 19.1	17.4 26.2
50 10.2	16.3 24.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#53

Toluene

Concen: 0.168 ppbv m

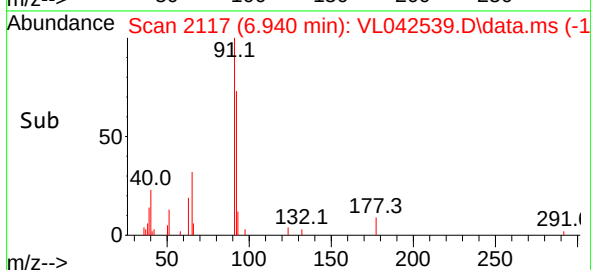
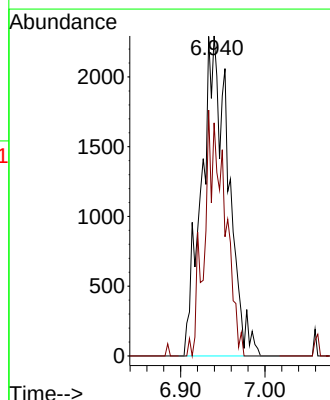
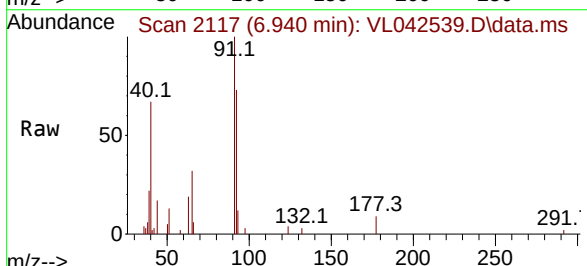
RT: 6.940 min Scan# 2117

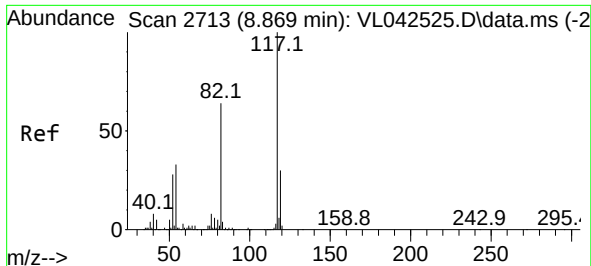
Delta R.T. 0.026 min

Lab File: VL042539.D

Acq: 14 May 2025 12:40

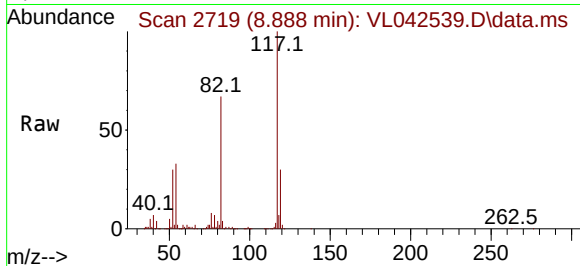
Tgt Ion: 91	Resp: 5095
Ion Ratio	Lower Upper
91 100	
92 0.0	47.8 71.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.019 min
Lab File: VL042539.D
Acq: 14 May 2025 12:40

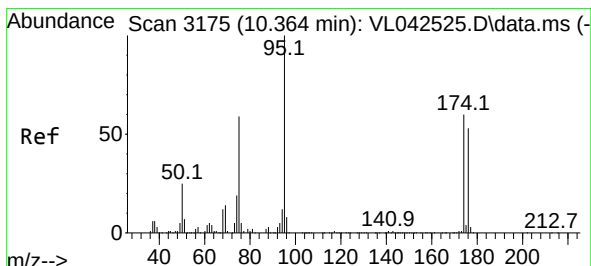
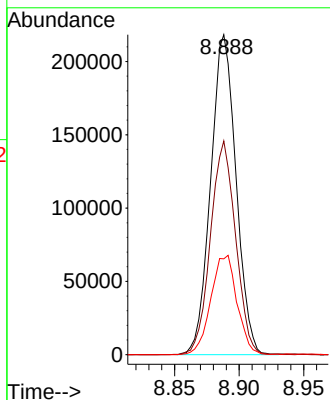
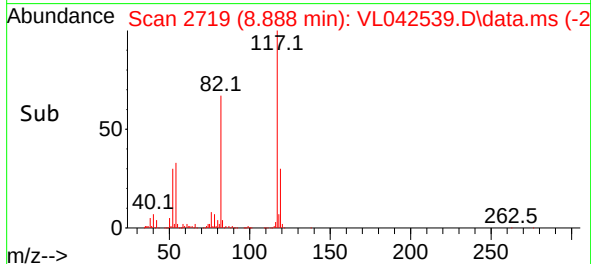
Instrument :
MSVOA_L
ClientSampleId :
IA1



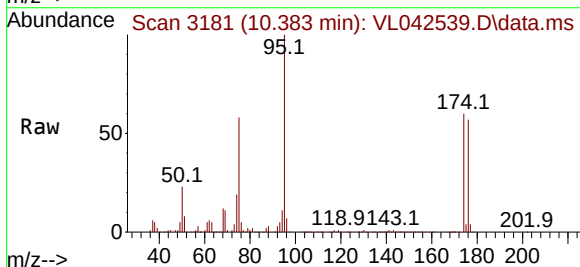
Tgt Ion: 117 Resp: 29833
Ion Ratio Lower Upper
117 100
82 66.2 55.0 82.4
119 32.1 25.8 38.6

Manual Integrations
APPROVED

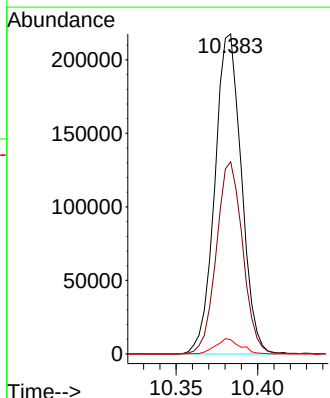
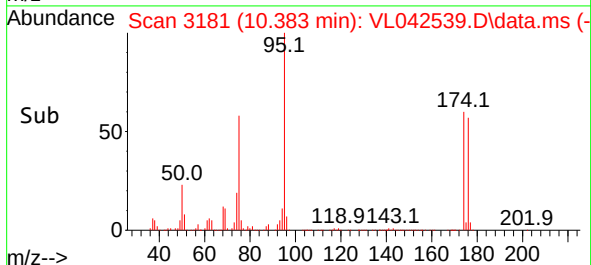
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

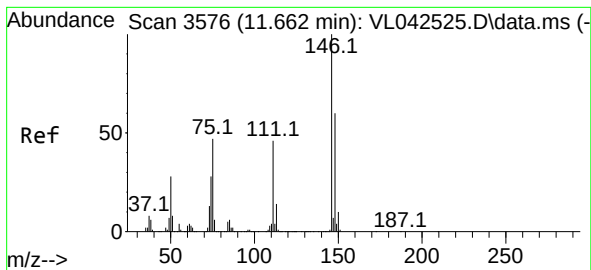


#68
1-Bromo-4-Fluorobenzene
Concen: 9.519 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. 0.019 min
Lab File: VL042539.D
Acq: 14 May 2025 12:40



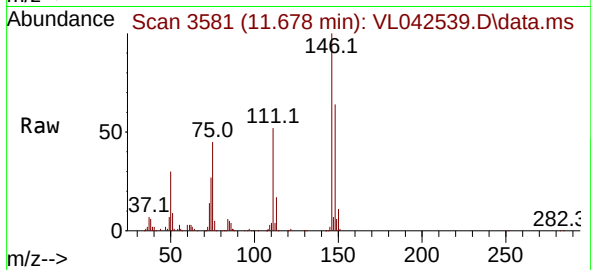
Tgt Ion: 95 Resp: 247100
Ion Ratio Lower Upper
95 100
174 59.4 48.0 72.0
175 4.5 3.5 5.3





#76
 1,4-Dichlorobenzene
 Concen: 1.636 ppbv
 RT: 11.678 min Scan# 3581
 Delta R.T. 0.016 min
 Lab File: VL042539.D
 Acq: 14 May 2025 12:40

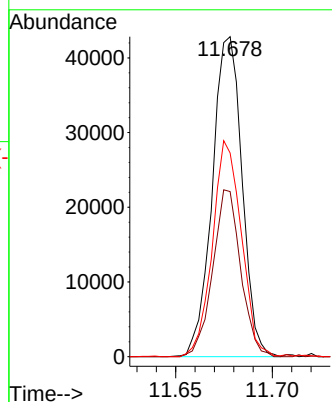
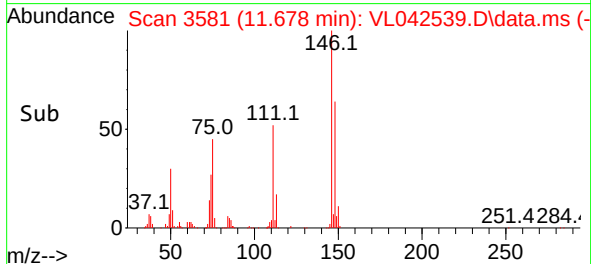
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion:	146	Resp:	45709
Ion Ratio	Lower	Upper	
146	100		
111	49.0	23.4	70.3
148	66.0	31.6	94.7

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025





CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q2011 SAS No.: Q2011 SDG No.: Q2011
 Instrument ID: MSVOA_L Calibration Date(s): 05/12/2025 05/12/2025
 Heated Purge: (Y/N) N Calibration Time(s): 08:57 14:28
 GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:		RRF010 = VL042525.D		RRF001 = VL042527.D		RRF0.5 = VL042528.D		
		RRF0.1 = VL042529.D		RRF.03 = VL042530.D		RRF002 = VL042532.D		
COMPOUND	RRF010	RRF001	RRF0.5	RRF0.1	RRF.03	RRF002	RRF	% RSD
Vinyl Chloride	0.554	0.636	0.708	0.804	0.788	0.654	0.678	13.8
1,1-Dichloroethane	1.136	1.249	1.307			1.327	1.244	6.3
cis-1,2-Dichloroethene	1.273	1.207	1.330			1.271	1.301	6.2
1,1,1-Trichloroethane	2.249	2.301	2.385	2.559	2.897	2.450	2.465	8.7
Trichloroethene	0.360	0.352	0.333	0.397	0.461	0.384	0.385	11
Tetrachloroethene	0.314	0.317	0.326	0.445	0.297	0.318	0.339	14.7
1-Bromo-4-Fluorobenzene	0.873	0.873	0.883	0.839	0.851	0.891	0.870	2.1

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

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

Method File : VL051225AIR.M

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

Last Update : Tue May 13 02:07:03 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042530.D 0.1 =VL042529.D 0.5 =VL042528.D 1 =VL042527.D 2 =VL042532.D 10 =VL042525.D 15 =VL042533.D

Compound		0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----								
2) T	Dichlorodifluo...			1.836	1.568	1.689	1.461	1.566	1.624	8.83
3)	Chlorodifluoro...			1.653	1.639	1.800	1.544	1.638	1.655	5.56
4)	Chloromethane			0.697	0.667	0.743	0.585	0.621	0.663	9.38
5) T	Vinyl Chloride	0.788	0.804	0.708	0.636	0.654	0.554	0.603	0.678	13.77
6) T	Bromomethane			0.357	0.319	0.333	0.292	0.310	0.322	7.68
7)	Chloroethane			0.274	0.303	0.300	0.223	0.239	0.268	13.53
8) T	Dichlorotetra...			1.617	1.385	1.435	1.234	1.315	1.397	10.33
9) T	Propene			0.511	0.426	0.166	0.089	0.602	0.359	61.84
10) T	Heptane			1.185	1.153	1.364	1.480	1.675	1.371	15.75
11) T	Trichlorofluor...			1.696	1.521	1.688	1.395	1.511	1.562	8.23
12) T	1,1,2-Trichlor...			1.415	1.225	1.343	1.103	1.187	1.255	9.92
13)	Ethanol			0.134	0.112	0.096	0.068	0.073	0.097	28.56
14) T	Bromoethene			0.452	0.462	0.501	0.409	0.463	0.457	7.25
15) T	Acetone			2.017	1.709	1.813	1.209	1.312	1.612	21.17
16) T	1,3-Butadiene			0.798	0.693	0.766	0.643	0.693	0.719	8.70
17)	tert-Butyl alc...			1.572	1.527	1.496	1.373	1.416	1.477	5.50
18) T	1,1-Dichloroet...			0.611	0.542	0.570	0.492	0.534	0.550	8.03
19) T	Isopropyl Alcohol			1.014	0.840	0.895	0.778	0.813	0.868	10.61
20) T	Methylene Chlo...			0.769	0.577	0.549	0.428	0.458	0.556	24.10
21) T	Allyl Chloride			1.058	1.094	1.092	0.986	1.060	1.058	4.14
22) T	trans-1,2-Dich...			0.698	0.650	0.705	0.563	0.600	0.643	9.58
23) T	Vinyl Acetate			1.807	1.527	1.661	1.614	1.756	1.673	6.67
24) T	1,1-Dichloroet...			1.307	1.249	1.327	1.136	1.204	1.244	6.25
25) T	Ethyl Acetate			2.551	2.551	2.980	2.855	3.091	2.806	8.80
26) T	Hexane			0.953	1.089	1.147	1.209	1.361	1.152	13.06
27) T	Carbon Disulfide			1.535	1.456	1.535	1.408	1.501	1.487	3.69
28) T	Methyl tert-Bu...			0.689	0.618	0.650	0.604	0.639	0.640	5.14
29) T	Chloroform			2.560	2.452	2.506	2.131	2.296	2.389	7.31
30) T	Cyclohexane			0.837	0.801	0.916	1.020	1.155	0.946	15.25
31) T	cis-1,2-Dichlo...			1.330	1.207	1.271	1.273	1.423	1.301	6.22
32) T	1,1,1-Trichlor...	2.897	2.559	2.385	2.301	2.450	2.249	2.414	2.465	8.74
33) I	1,4-Difluorobenzene	-----ISTD-----								
34) T	2-Butanone			0.686	0.645	0.663	0.598	0.704	0.659	6.20
35) T	Carbon Tetrach...	1.001	0.919	0.884	0.868	0.913	0.805	0.902	0.899	6.59
36) T	Benzene			0.874	0.846	0.881	0.844	0.987	0.886	6.61
37) T	1,2-Dichloroet...			0.649	0.640	0.665	0.569	0.638	0.632	5.82
38) T	Trichloroethene	0.461	0.397	0.333	0.352	0.384	0.360	0.410	0.385	11.04
39) T	1,2-Dichloropr...			0.346	0.331	0.317	0.308	0.349	0.330	5.37

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ Method File : VL051225AIR.M											
40)	T	1,4-Dioxane			0.138	0.122	0.124	0.135	0.151	0.134	8.61
41)	T	Tetrahydrofuran			0.218	0.254	0.285	0.308	0.361	0.285	18.98
42)	T	Bromodichlorom...			0.864	0.816	0.872	0.782	0.883	0.844	5.09
43)		Methyl Methacr...			0.240	0.260	0.284	0.322	0.378	0.297	18.37
44)	T	2,2,4-Trimethy...			1.204	1.331	1.439	1.425	1.622	1.404	10.96
45)	T	t-1,3-Dichloro...			0.328	0.342	0.338	0.403	0.485	0.379	17.41
46)	T	cis-1,3-Dichlo...			0.397	0.403	0.417	0.486	0.577	0.456	16.69
47)	T	1,1,2-Trichlor...			0.435	0.372	0.392	0.351	0.394	0.389	8.04
48)	T	Dibromochlorom...			0.608	0.631	0.668	0.618	0.720	0.649	7.05
49)	T	Bromoform			0.490	0.503	0.547	0.522	0.601	0.533	8.24
50)	T	4-Methyl-2-Pen...			0.621	0.694	0.771	0.826	0.960	0.774	16.72
51)	T	2-Hexanone			0.408	0.468	0.550	0.662	0.791	0.576	26.67
52)	T	Tetrachloroethene	0.297	0.445	0.326	0.317	0.318	0.314	0.356	0.339	14.73
53)	T	Toluene			0.720	0.731	0.819	0.953	1.126	0.870	19.65
54)	T	1,2-Dibromoethane	0.593		0.555	0.542	0.556	0.534	0.626	0.568	6.18
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.661	0.626	0.657	0.552	0.603	0.620	7.20
57)	T	Chlorobenzene			1.046	0.977	1.078	0.911	1.008	1.004	6.40
58)	T	Ethyl Benzene			1.046	1.084	1.318	1.563	1.804	1.363	23.62
59)	T	m/p-Xylene			0.867	1.028	1.325	1.342	1.491	1.211	21.06
60)	T	o-Xylene			0.805	1.009	1.292	1.331	1.473	1.182	22.81
61)	T	Styrene			0.298	0.348	0.392	0.509	0.642	0.438	31.60
62)		Isopropylbenzene			1.347	1.561	1.911	1.933	2.150	1.780	18.03
63)	T	1,1,2,2-Tetrac...	1.170	0.996	0.949	0.881	0.993	0.821	0.907	0.959	11.64
64)		n-propylbenzene			0.309	0.392	0.503	0.507	0.549	0.452	21.79
65)		tert-Butylbenzene			1.125	1.436	1.862	1.779	1.971	1.635	21.30
66)	T	Benzyl Chloride			0.201	0.182	0.226	0.223	0.254	0.217	12.67
67)		sec-Butylbenzene			1.723	2.130	2.714	2.481	2.671	2.344	17.77
68)	S	1-Bromo-4-Fluo...	0.851	0.839	0.883	0.873	0.891	0.873	0.882	0.870	2.13
69)		p-Isopropyltol...			1.223	1.670	2.247	2.151	2.344	1.927	24.45
70)		n-Butylbenzene			1.243	1.575	2.244	2.136	2.323	1.904	24.76
71)		2-Chlorotoluene			1.090	1.131	1.356	1.489	1.675	1.348	18.20
72)	T	4-Ethyltoluene			0.997	1.242	1.585	1.655	1.853	1.466	23.37
73)	T	1,3,5-Trimethy...			0.874	1.107	1.432	1.415	1.558	1.277	21.90
74)	T	1,2,4-Trimethy...			1.064	1.525	1.919	1.621	1.728	1.572	20.31
75)	T	1,3-Dichlorobe...			0.867	0.979	1.093	0.953	1.030	0.984	8.61
76)	T	1,4-Dichlorobe...			0.778	0.886	1.064	0.930	1.023	0.936	12.10
77)	T	1,2-Dichlorobe...			0.996	1.015	1.178	0.913	0.983	1.017	9.63
78)	T	Hexachloro-1,3...			0.936	0.896	0.984	0.733	0.809	0.872	11.54
79)	T	Naphthalene	0.504		0.660	0.918	1.391	1.374	1.688	1.089	42.79
80)	T	Naphthalene,2-...			0.237	0.342	0.581	0.776	1.207	0.629	61.32
81)	T	1,2,4-Trichlor...			0.407	0.549	0.751	0.726	0.879	0.662	27.92

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042525.D
 Acq On : 12 May 2025 08:57
 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 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

Quant Time: May 12 23:45:09 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

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

QLast Update : Mon May 12 23:42:45 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.777	49	115823	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	341715	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	299786	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.364 95 261594 10.029 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.492	85	169160	8.994	ppbv	100
3) Chlorodifluoromethane	1.470	51	178822	9.329	ppbv	100
4) Chloromethane	1.528	50	67750	8.826	ppbv	100
5) Vinyl Chloride	1.573	62	64115	8.163	ppbv	100
6) Bromomethane	1.661	94	33766	9.053	ppbv	100
7) Chloroethane	1.700	64	25777	8.338	ppbv	100
8) Dichlorotetrafluoroethane	1.548	85	142870	8.828	ppbv	100
9) Propene	1.476	41	10300	2.474	ppbv #	1
10) Heptane	4.959	43	171443	10.802	ppbv	100
11) Trichlorofluoromethane	1.871	101	161561	8.930	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.130	101	127743	8.791	ppbv	100
13) Ethanol	1.716	45	7854	6.912	ppbv	100
14) Bromoethene	1.774	108	47318	8.932	ppbv	100
15) Acetone	1.829	43	140078	7.569	ppbv	100
16) 1,3-Butadiene	1.603	39	74449	8.946	ppbv	100
17) tert-Butyl alcohol	2.033	59	159013	9.298	ppbv	100
18) 1,1-Dichloroethene	2.027	96	57005	8.952	ppbv	100
19) Isopropyl Alcohol	1.881	45	90090	8.961	ppbv #	1
20) Methylene Chloride	2.052	84	49582	7.693	ppbv	100
21) Allyl Chloride	2.088	41	114157	9.316	ppbv	100
22) trans-1,2-Dichloroethene	2.331	96	65183	8.750	ppbv	100
23) Vinyl Acetate	2.454	43	186900	9.646	ppbv	100
24) 1,1-Dichloroethane	2.399	63	131534	9.126	ppbv	100
25) Ethyl Acetate	2.826	43	330659	10.175	ppbv	100
26) Hexane	2.816	57	140065	10.498	ppbv	100
27) Carbon Disulfide	2.143	76	163053	9.467	ppbv	99
28) Methyl tert-Butyl Ether	2.431	73	69971	9.440	ppbv	100
29) Chloroform	2.839	83	246790	8.919	ppbv	100
30) Cyclohexane	3.842	84	118162	10.787	ppbv	100
31) cis-1,2-Dichloroethene	2.709	61	147467	9.788	ppbv	100
32) 1,1,1-Trichloroethane	3.357	97	260477	9.331	ppbv	100
34) 2-Butanone	2.548	43	204394	9.075	ppbv	100
35) Carbon Tetrachloride	3.748	117	275147	8.956	ppbv	100
36) Benzene	3.642	78	288357	9.522	ppbv	100
37) 1,2-Dichloroethane	3.208	62	194477	9.003	ppbv	100
38) Trichloroethene	4.528	130	123174	9.520	ppbv	100
39) 1,2-Dichloropropane	4.299	63	105313	9.342	ppbv	100
40) 1,4-Dioxane	4.564	88	46049	10.246	ppbv #	96
41) Tetrahydrofuran	3.046	42	105158	10.824	ppbv	100
42) Bromodichloromethane	4.473	83	267225	9.286	ppbv	100
43) Methyl Methacrylate	4.862	69	110028	10.879	ppbv	100
44) 2,2,4-Trimethylpentane	4.622	57	486999	10.240	ppbv	100
45) t-1,3-Dichloropropene	6.393	75	137698	10.664	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042525.D
 Acq On : 12 May 2025 08:57
 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 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

Quant Time: May 12 23:45:09 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

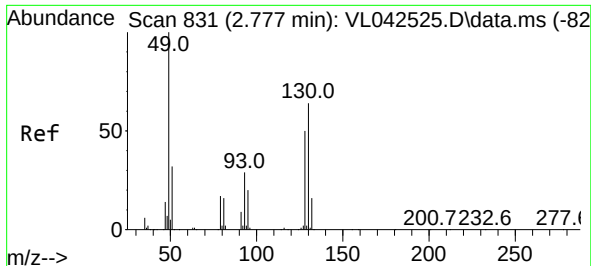
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Mon May 12 23:42:45 2025

Response via : Initial Calibration

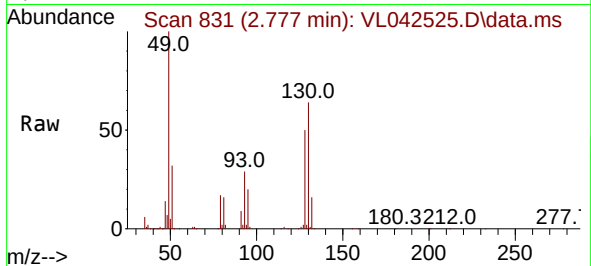
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.580	75	166227	10.673	ppbv	100
47) 1,1,2-Trichloroethane	6.561	97	119791	9.025	ppbv	100
48) Dibromochloromethane	7.373	129	211079	9.517	ppbv	100
49) Bromoform	9.474	173	178401	9.802	ppbv	100
50) 4-Methyl-2-Pentanone	5.736	43	282238m	10.684	ppbv	
51) 2-Hexanone	7.419	43	226227	11.522	ppbv	100
52) Tetrachloroethene	8.212	164	107438	9.209	ppbv	100
53) Toluene	6.914	91	325568	10.955	ppbv	100
54) 1,2-Dibromoethane	7.636	107	182336	9.400	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.914	131	165589	8.909	ppbv	99
57) Chlorobenzene	8.911	112	273225	9.077	ppbv	100
58) Ethyl Benzene	9.345	91	468520	11.466	ppbv	100
59) m/p-Xylene	9.539	91	804567m	22.134	ppbv	
60) o-Xylene	9.953	91	399046	11.266	ppbv	100
61) Styrene	9.859	104	152478	11.686	ppbv	100
62) Isopropylbenzene	10.529	105	579443	10.856	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.953	83	246197	8.666	ppbv	100
64) n-propylbenzene	10.979	120	151897	11.231	ppbv	100
65) tert-Butylbenzene	11.523	119	533457	10.884	ppbv	100
66) Benzyl Chloride	11.607	91	66999	10.331	ppbv	100
67) sec-Butylbenzene	11.759	105	743905	10.586	ppbv	100
69) p-Isopropyltoluene	11.918	119	644903	11.163	ppbv	100
70) n-Butylbenzene	12.274	91	640472	11.219	ppbv	100
71) 2-Chlorotoluene	10.892	91	446467	11.047	ppbv	100
72) 4-Ethyltoluene	11.118	105	496120	11.285	ppbv	100
73) 1,3,5-Trimethylbenzene	11.196	105	424133	11.076	ppbv	100
74) 1,2,4-Trimethylbenzene	11.529	105	485862	10.313	ppbv	100
75) 1,3-Dichlorobenzene	11.601	146	285664	9.681	ppbv	100
76) 1,4-Dichlorobenzene	11.662	146	278935	9.936	ppbv	100
77) 1,2-Dichlorobenzene	11.940	146	273570	8.976	ppbv	100
78) Hexachloro-1,3-Butadiene	13.876	225	219741	8.408	ppbv	100
79) Naphthalene	13.507	128	411831	12.661	ppbv	100
80) Naphthalene,2-methyl-	14.452	142	232576	12.289	ppbv	100
81) 1,2,4-Trichlorobenzene	13.432	180	217565	10.955	ppbv	100

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 831
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

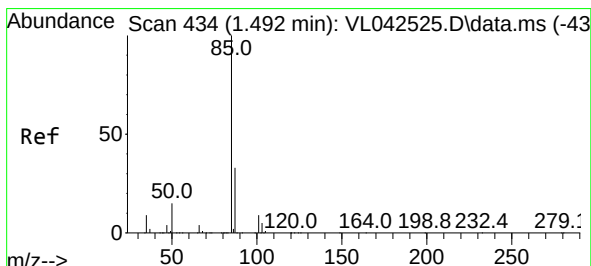
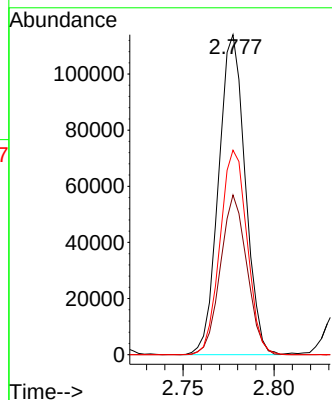
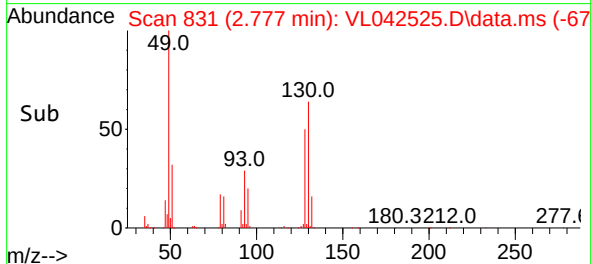
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 49 Resp: 115823
Ion Ratio Lower Upper
49 100
128 49.7 24.9 74.6
130 65.0 32.5 97.5

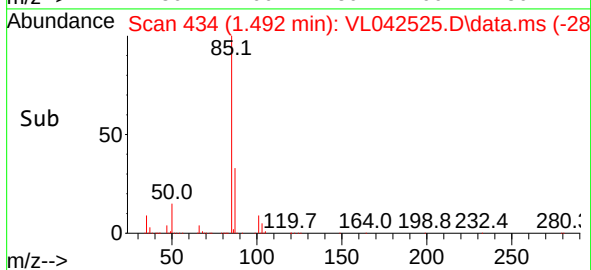
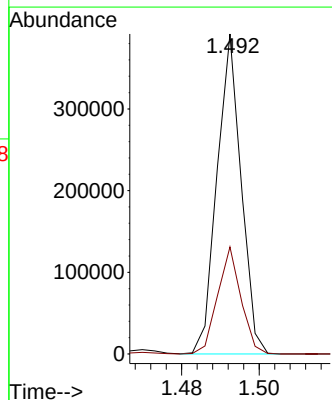
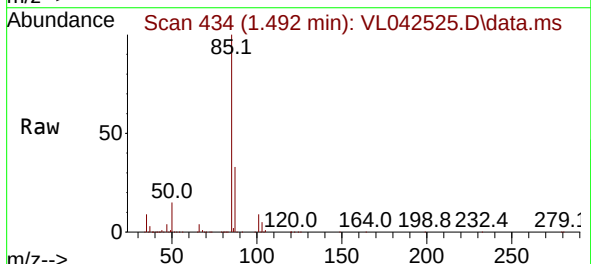
Manual Integrations
APPROVED

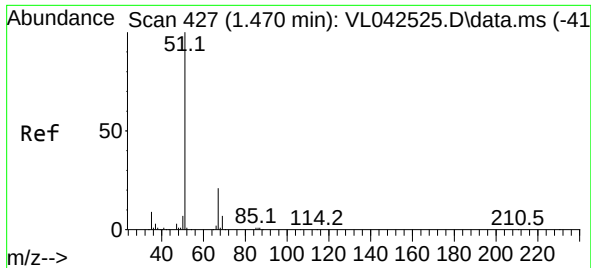
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#2
Dichlorodifluoromethane
Concen: 8.994 ppbv
RT: 1.492 min Scan# 434
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Tgt Ion: 85 Resp: 169160
Ion Ratio Lower Upper
85 100
87 33.5 26.8 40.2





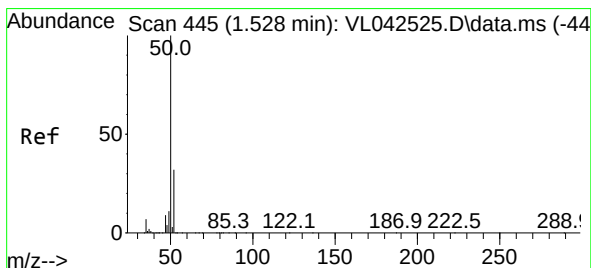
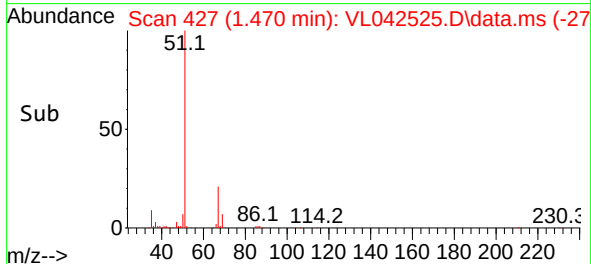
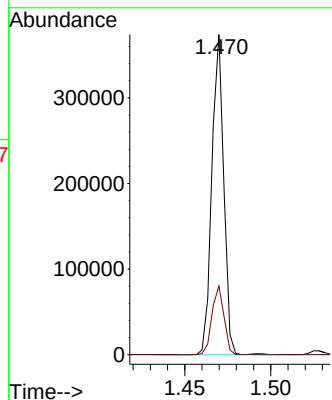
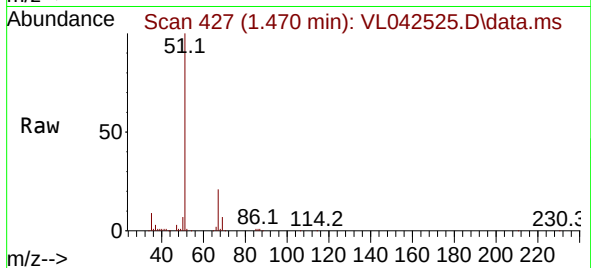
#3
Chlorodifluoromethane
Concen: 9.329 ppbv
RT: 1.470 min Scan# 427
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 51 Resp: 17882
Ion Ratio Lower Upper
51 100
67 21.7 17.4 26.0

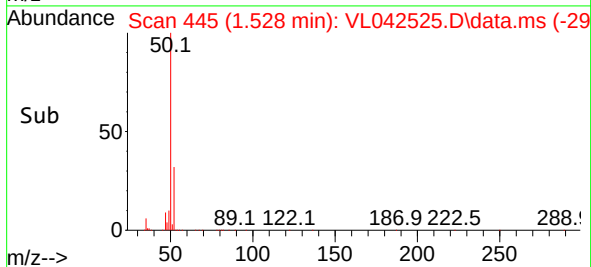
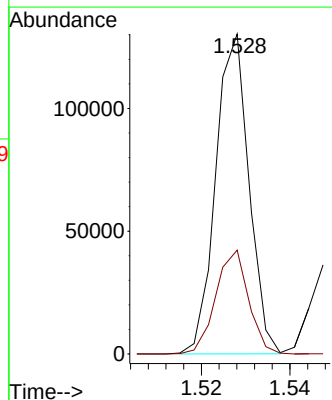
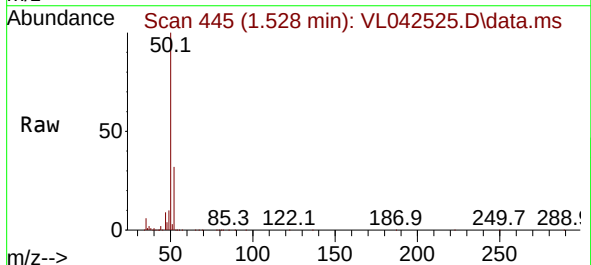
Manual Integrations
APPROVED

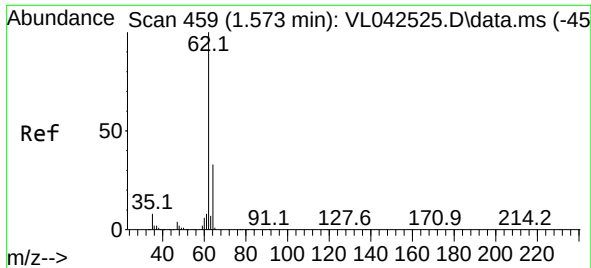
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#4
Chloromethane
Concen: 8.826 ppbv
RT: 1.528 min Scan# 445
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

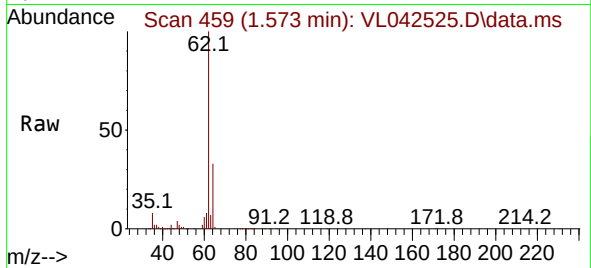
Tgt Ion: 50 Resp: 67750
Ion Ratio Lower Upper
50 100
52 32.4 25.9 38.9





#5
 Vinyl Chloride
 Concen: 8.163 ppbv
 RT: 1.573 min Scan# 459
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

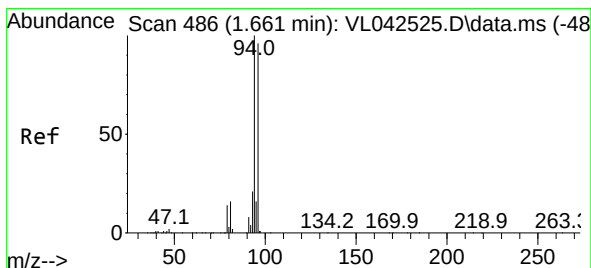
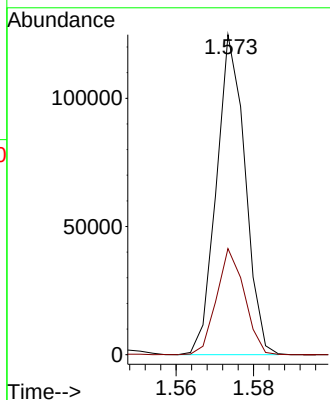
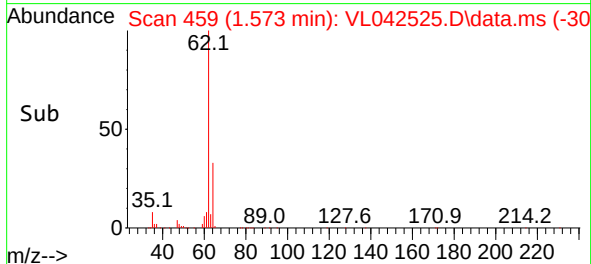
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



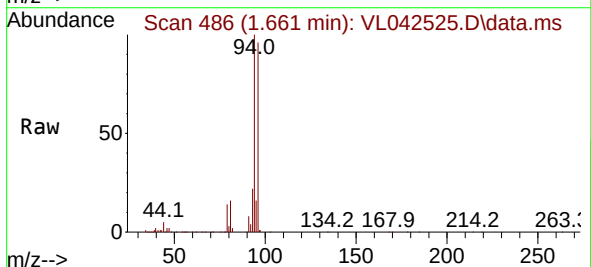
Tgt Ion: 62 Resp: 64115
 Ion Ratio Lower Upper
 62 100
 64 33.1 26.5 39.7

Manual Integrations
 APPROVED

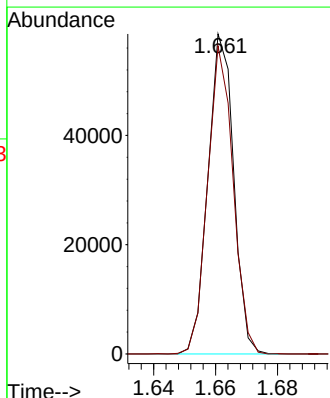
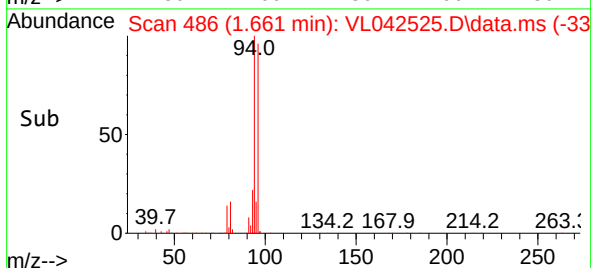
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

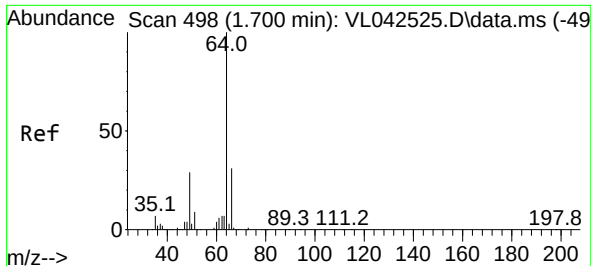


#6
 Bromomethane
 Concen: 9.053 ppbv
 RT: 1.661 min Scan# 486
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57



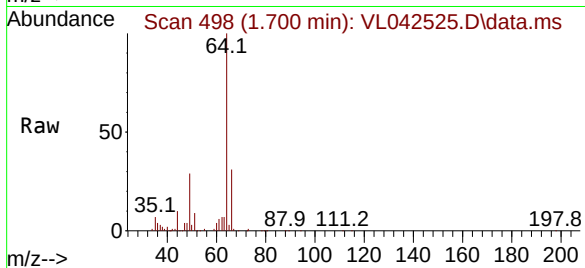
Tgt Ion: 94 Resp: 33766
 Ion Ratio Lower Upper
 94 100
 96 96.1 76.9 115.3





#7
Chloroethane
Concen: 8.338 ppbv
RT: 1.700 min Scan# 498
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

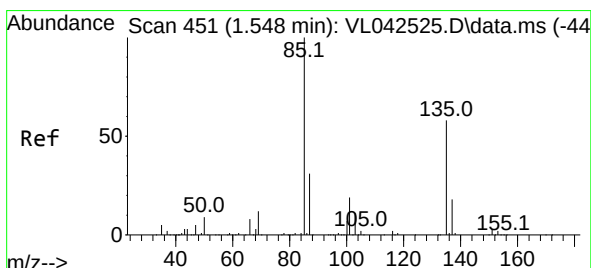
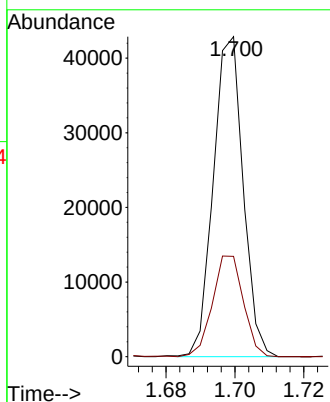
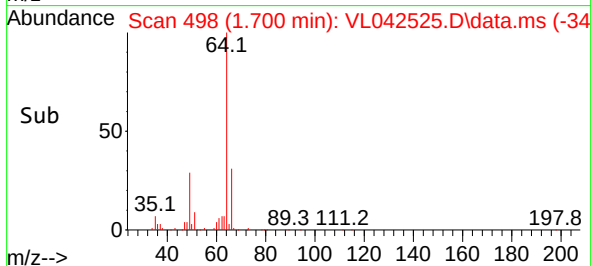
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



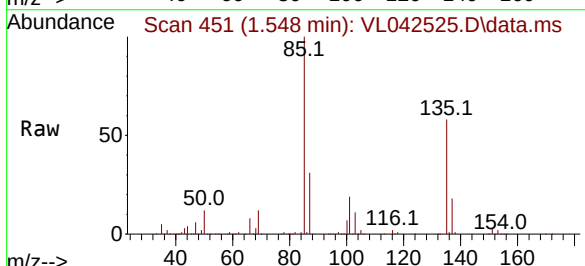
Tgt Ion: 64 Resp: 2577
Ion Ratio Lower Upper
64 100
66 31.4 25.1 37.7

Manual Integrations
APPROVED

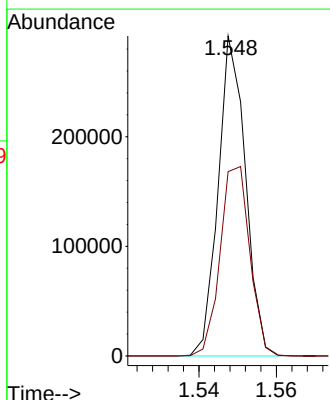
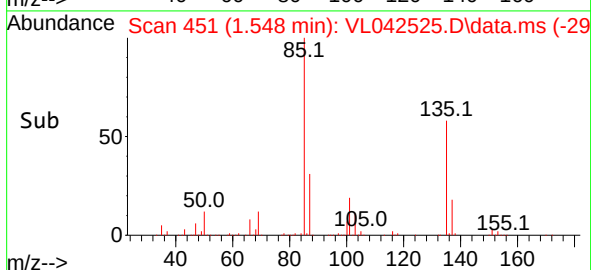
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

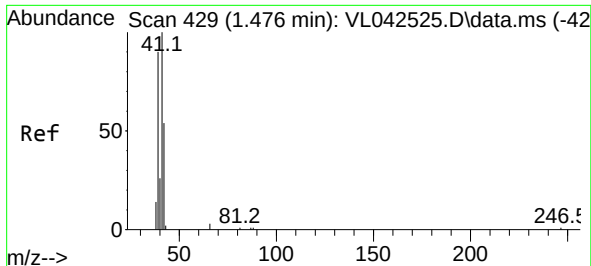


#8
Dichlorotetrafluoroethane
Concen: 8.828 ppbv
RT: 1.548 min Scan# 451
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



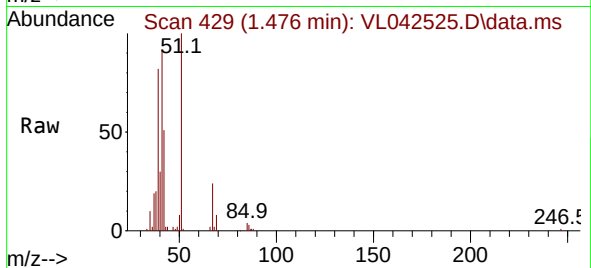
Tgt Ion: 85 Resp: 142870
Ion Ratio Lower Upper
85 100
135 64.8 51.8 77.8





#9
 Propene
 Concen: 2.474 ppbv
 RT: 1.476 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

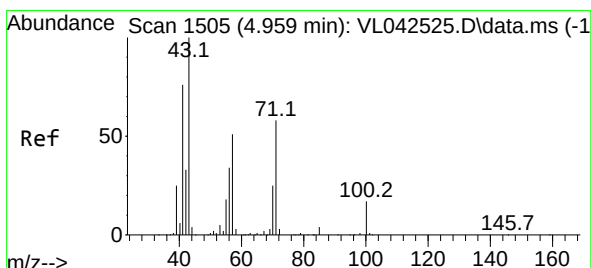
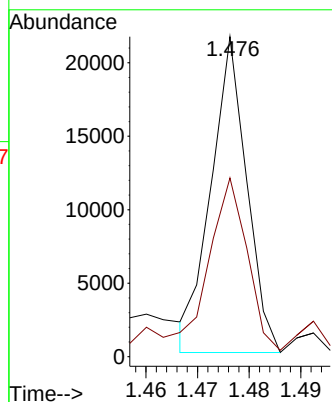
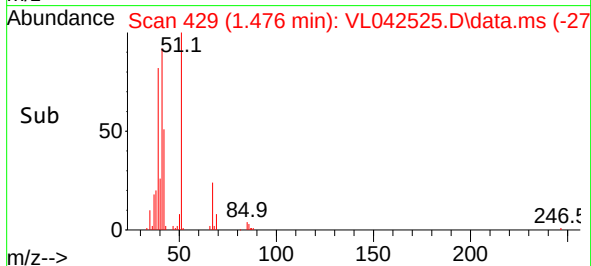
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



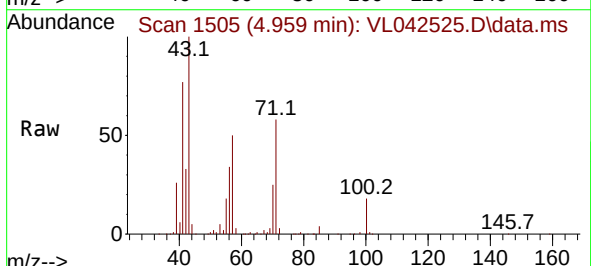
Tgt Ion: 41 Resp: 10300
 Ion Ratio Lower Upper
 41 100
 42 81.7 4.1 6.1

Manual Integrations
 APPROVED

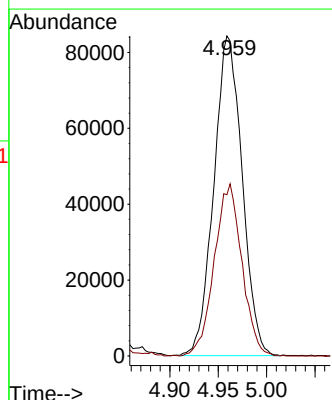
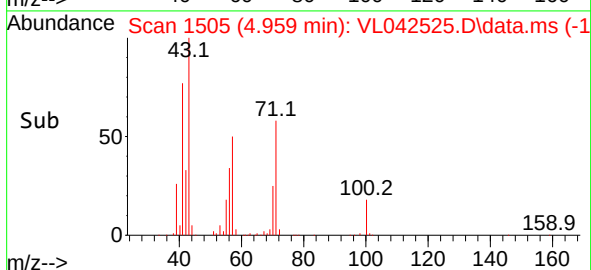
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

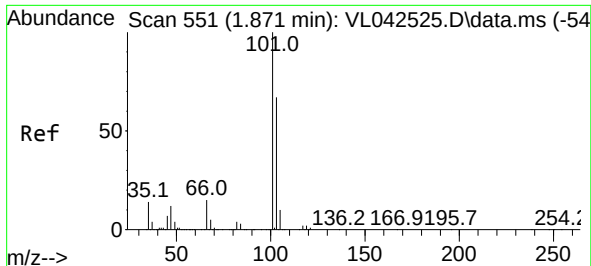


#10
 Heptane
 Concen: 10.802 ppbv
 RT: 4.959 min Scan# 1505
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57



Tgt Ion: 43 Resp: 171443
 Ion Ratio Lower Upper
 43 100
 57 52.6 42.1 63.1





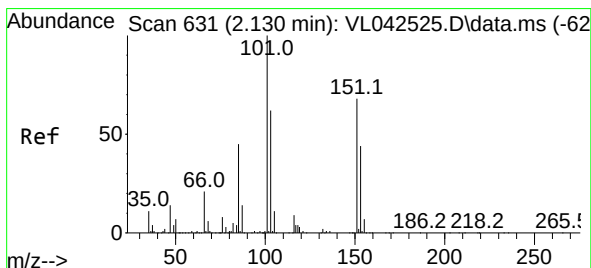
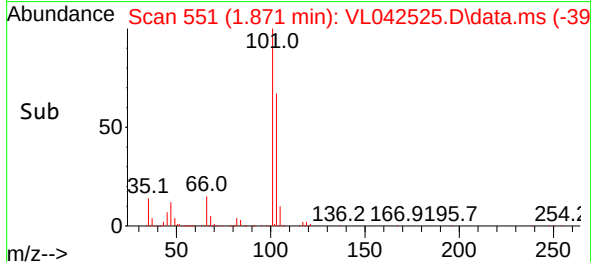
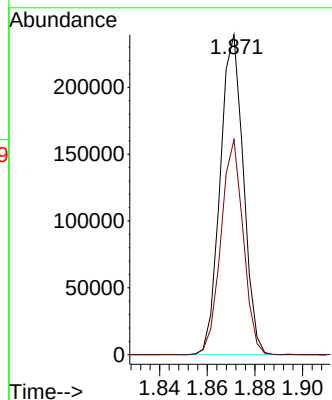
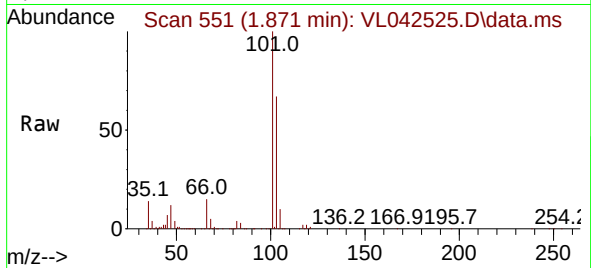
#11
Trichlorofluoromethane
Concen: 8.930 ppbv
RT: 1.871 min Scan# 551
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:101 Resp: 16156
Ion Ratio Lower Upper
101 100
103 67.2 53.8 80.6

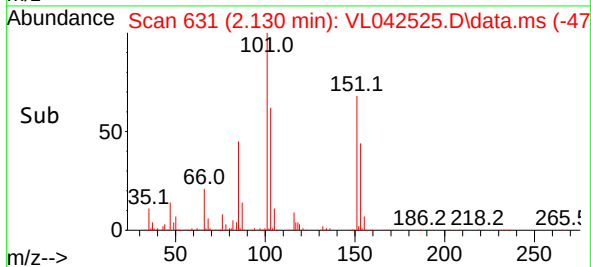
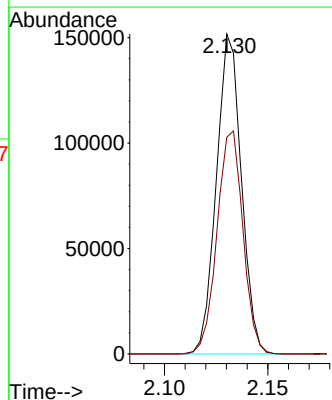
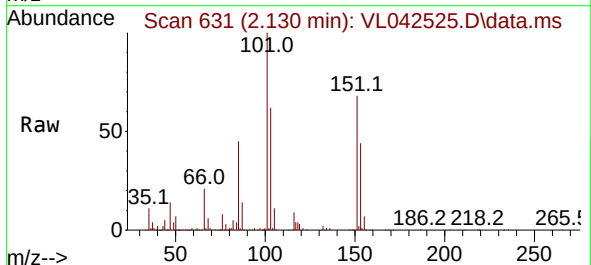
Manual Integrations
APPROVED

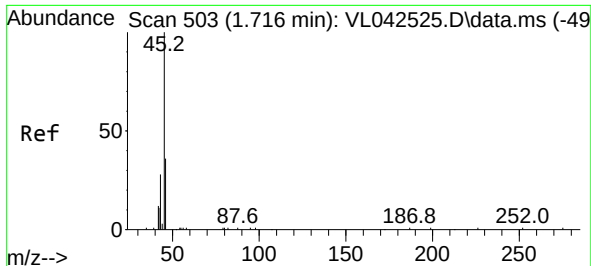
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#12
1,1,2-Trichlorotrifluoroethane
Concen: 8.791 ppbv
RT: 2.130 min Scan# 631
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

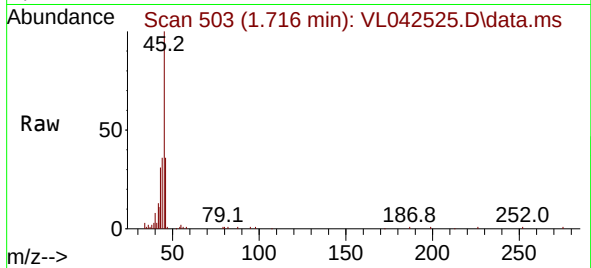
Tgt Ion:101 Resp: 127743
Ion Ratio Lower Upper
101 100
151 72.3 57.8 86.8





#13
Ethanol
Concen: 6.912 ppbv
RT: 1.716 min Scan# 503
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

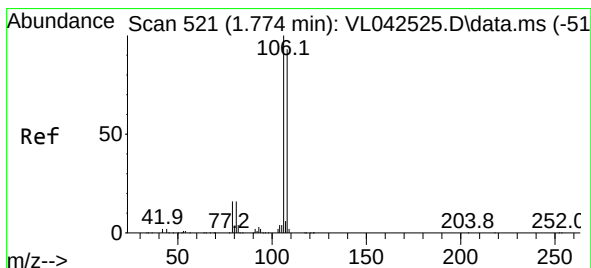
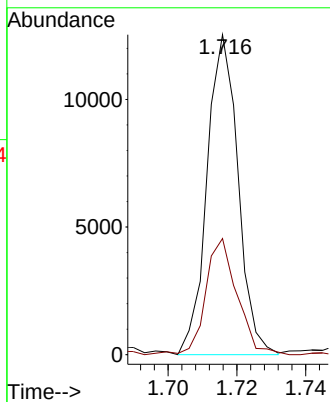
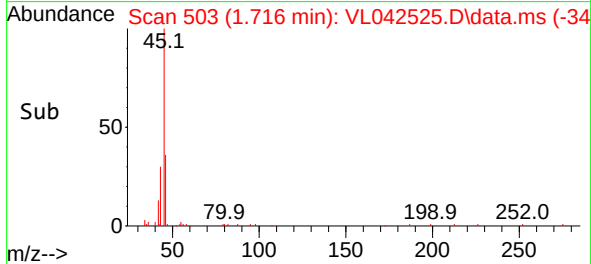
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



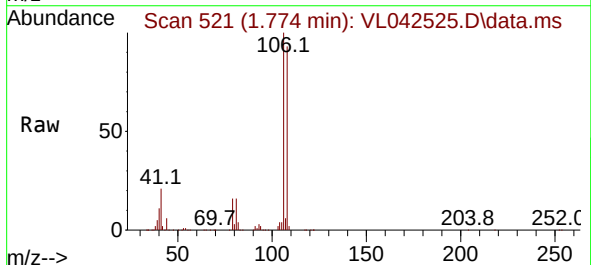
Tgt Ion: 45 Resp: 7854
Ion Ratio Lower Upper
45 100
46 37.1 14.8 59.4

Manual Integrations
APPROVED

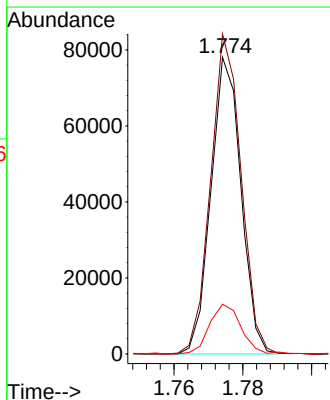
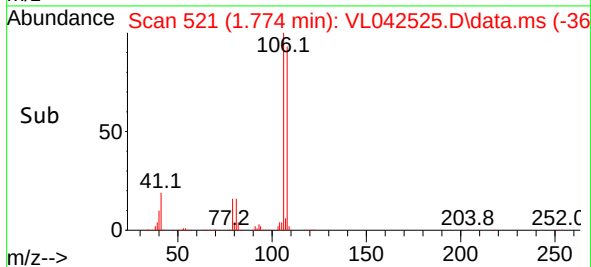
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

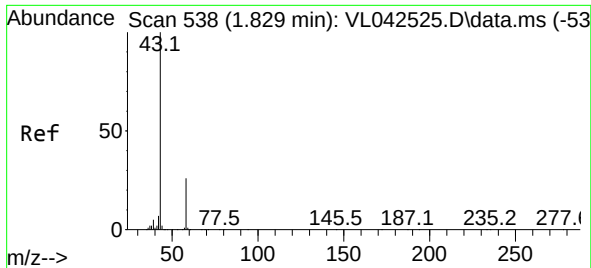


#14
Bromoethene
Concen: 8.932 ppbv
RT: 1.774 min Scan# 521
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



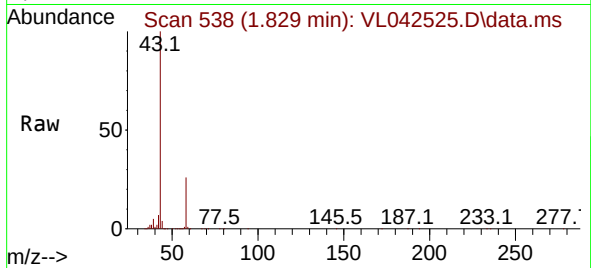
Tgt Ion:108 Resp: 47318
Ion Ratio Lower Upper
108 100
106 109.3 87.4 131.2
79 17.5 15.1 22.7





#15
Acetone
Concen: 7.569 ppbv
RT: 1.829 min Scan# 538
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

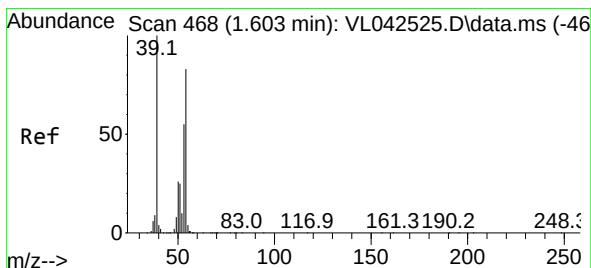
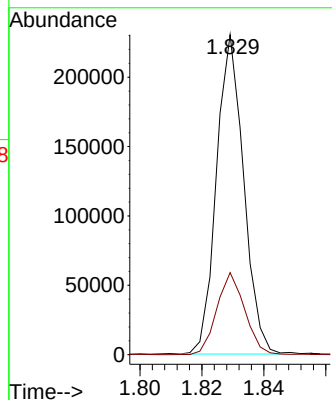
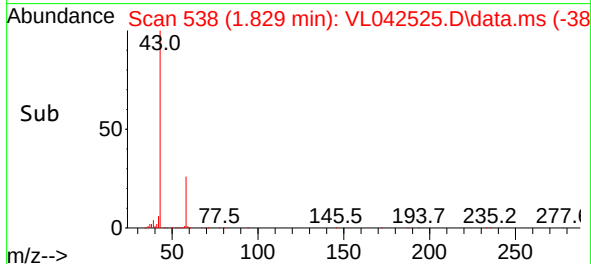
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



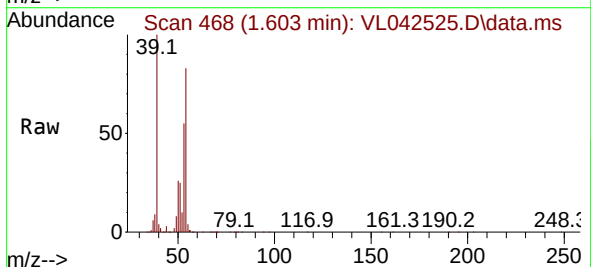
Tgt Ion: 43 Resp: 140078
Ion Ratio Lower Upper
43 100
58 26.6 21.3 31.9

Manual Integrations
APPROVED

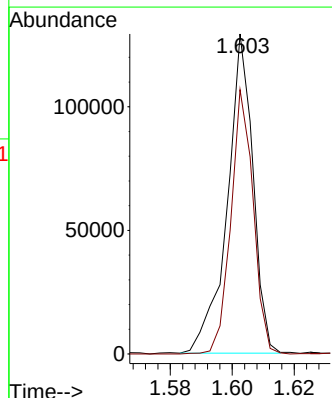
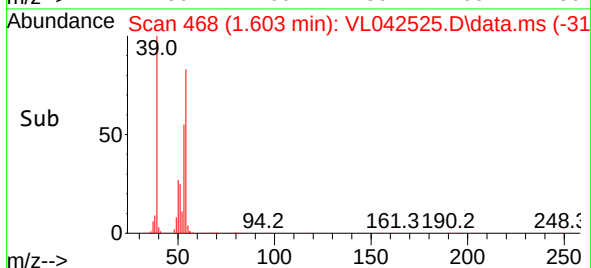
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

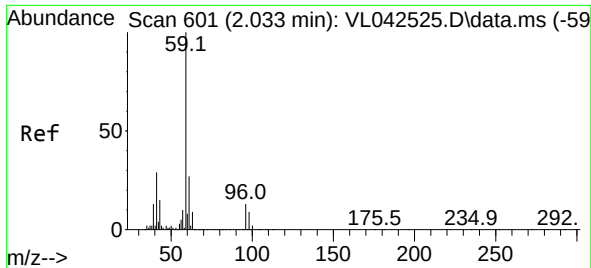


#16
1,3-Butadiene
Concen: 8.946 ppbv
RT: 1.603 min Scan# 468
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



Tgt Ion: 39 Resp: 74449
Ion Ratio Lower Upper
39 100
54 72.1 57.8 86.6





#17

tert-Butyl alcohol

Concen: 9.298 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 59 Resp: 15901

Ion Ratio Lower Upper

59 100

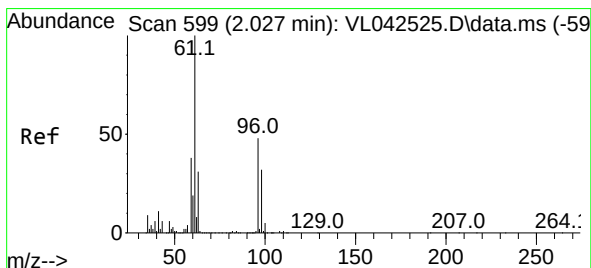
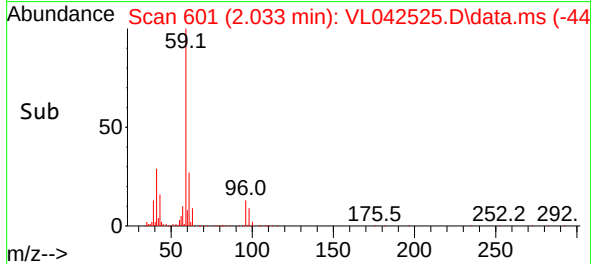
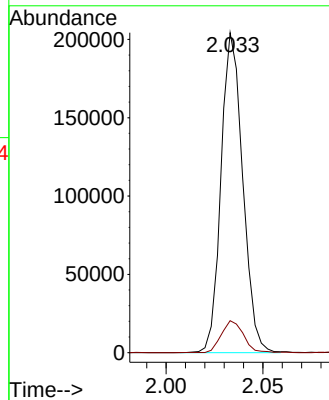
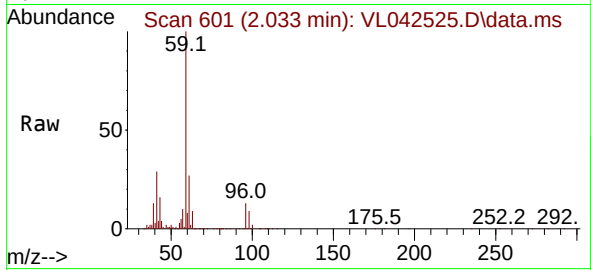
57 10.3 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#18

1,1-Dichloroethene

Concen: 8.952 ppbv

RT: 2.027 min Scan# 599

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

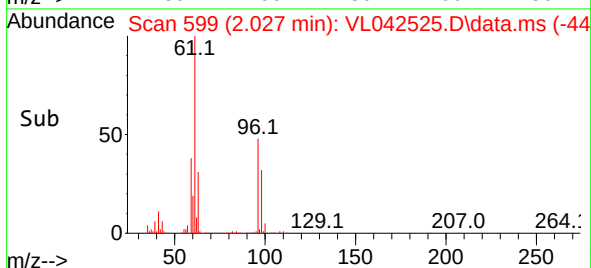
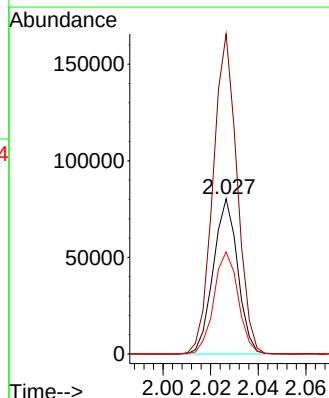
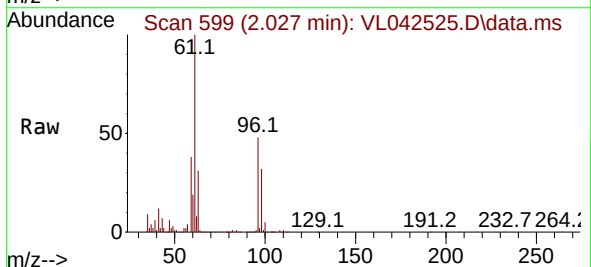
Tgt Ion: 96 Resp: 57005

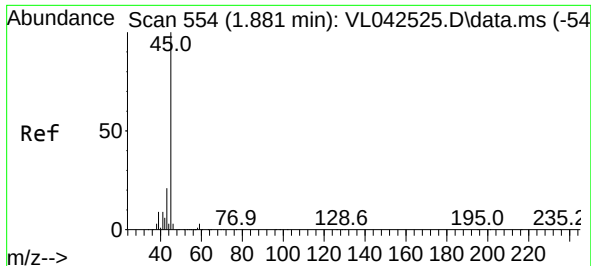
Ion Ratio Lower Upper

96 100

61 206.2 165.0 247.4

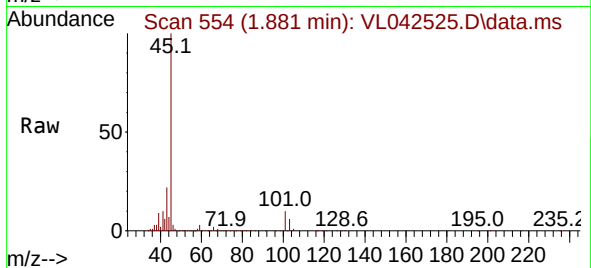
98 65.8 52.6 79.0





#19
Isopropyl Alcohol
Concen: 8.961 ppbv
RT: 1.881 min Scan# 554
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

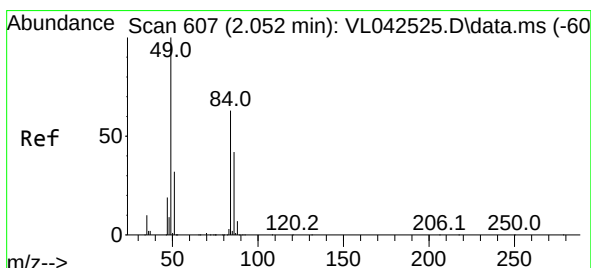
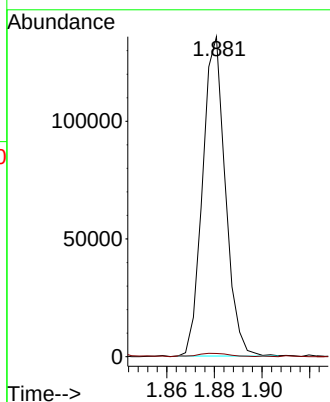
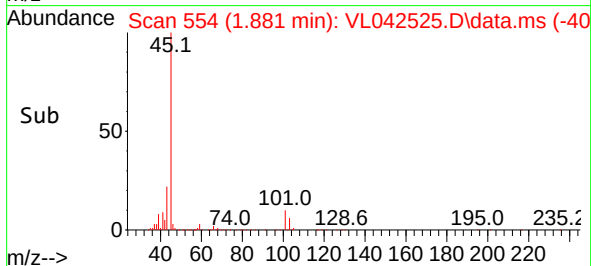
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



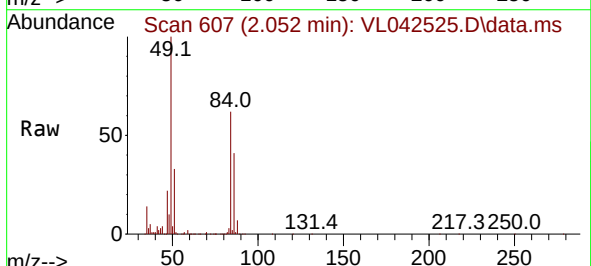
Tgt Ion: 45 Resp: 90090
Ion Ratio Lower Upper
45 100
58 41.4 1.5 2.3

Manual Integrations
APPROVED

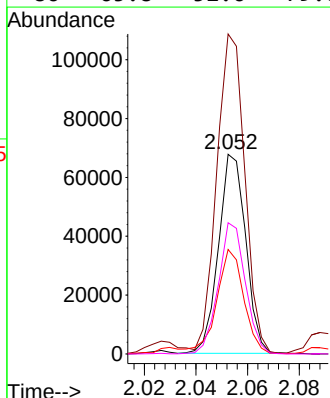
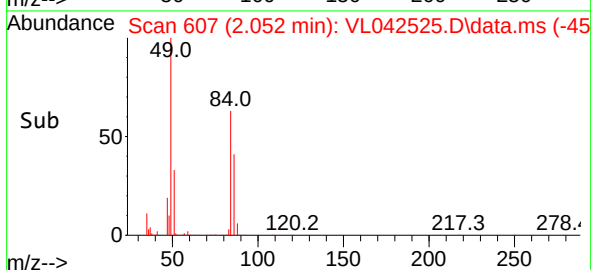
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

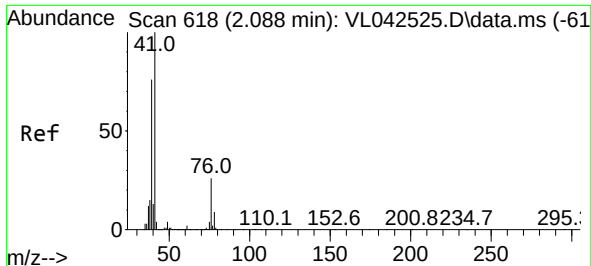


#20
Methylene Chloride
Concen: 7.693 ppbv
RT: 2.052 min Scan# 607
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



Tgt Ion: 84 Resp: 49582
Ion Ratio Lower Upper
84 100
49 160.3 128.2 192.4
51 52.1 41.7 62.5
86 65.8 52.6 79.0





#21

Allyl Chloride

Concen: 9.316 ppbv

RT: 2.088 min Scan# 618

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

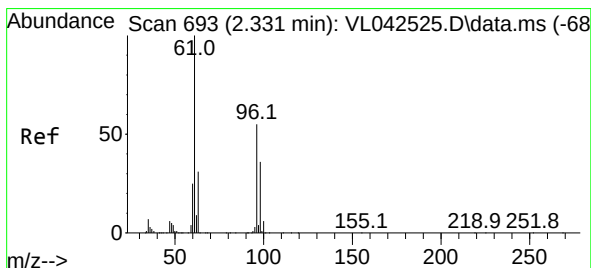
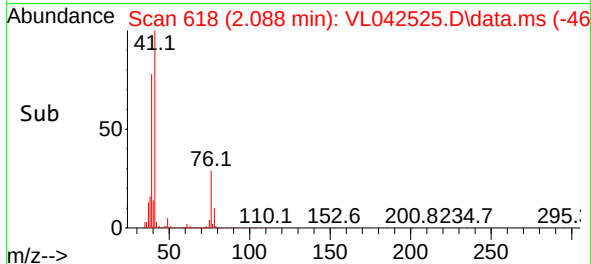
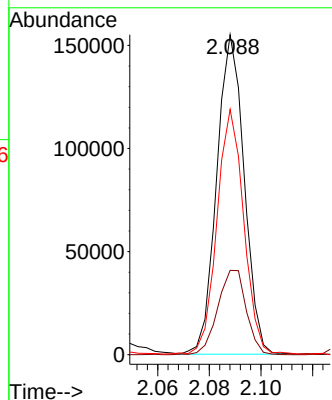
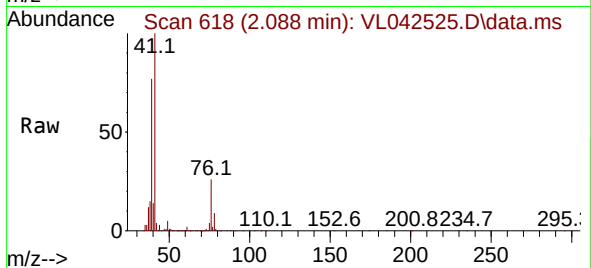
VSTDICCC010

Tgt Ion: 41	Resp: 11415
Ion Ratio	Lower Upper
41	100
76	27.5 22.0 33.0
39	74.4 59.5 89.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#22

trans-1,2-Dichloroethene

Concen: 8.750 ppbv

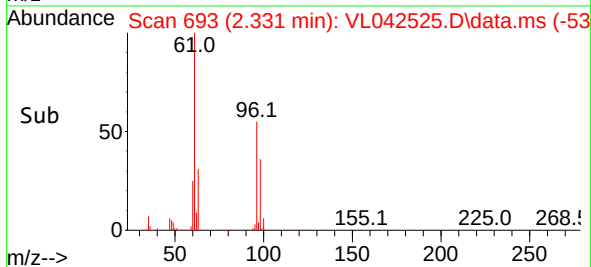
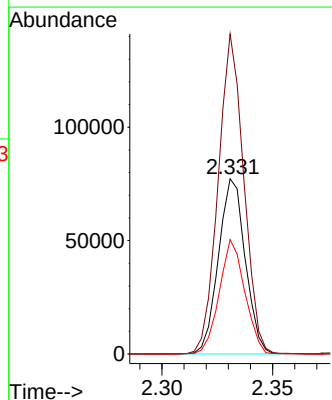
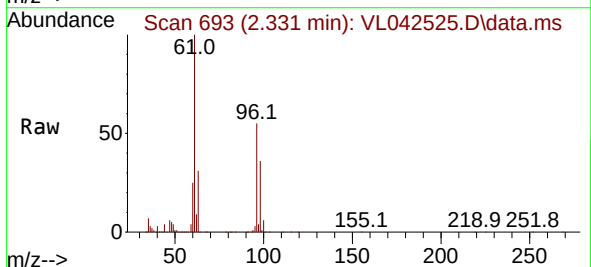
RT: 2.331 min Scan# 693

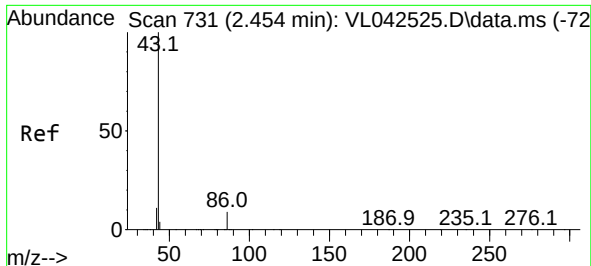
Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Tgt Ion: 96	Resp: 65183
Ion Ratio	Lower Upper
96	100
61	182.4 145.9 218.9
98	65.3 52.2 78.4





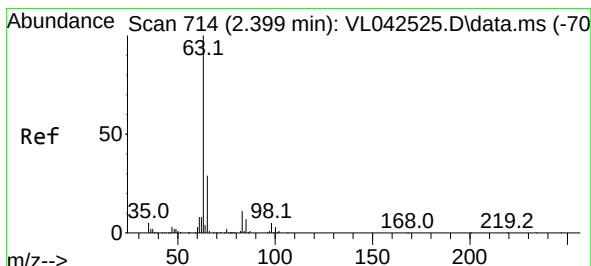
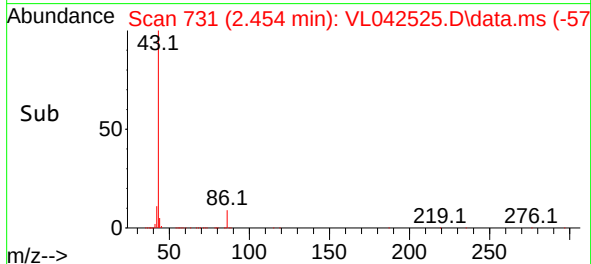
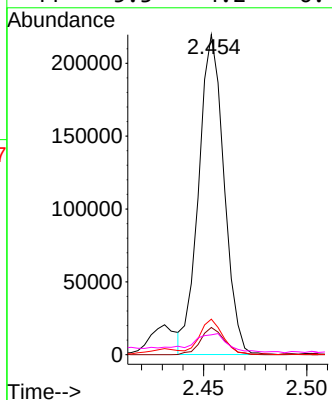
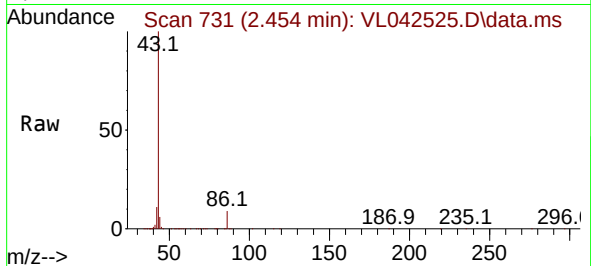
#23
 Vinyl Acetate
 Concen: 9.646 ppbv
 RT: 2.454 min Scan# 714
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 43 Resp: 186900
 Ion Ratio Lower Upper
 43 100
 86 8.5 6.8 10.2
 42 11.0 8.8 13.2
 44 5.3 4.2 6.4

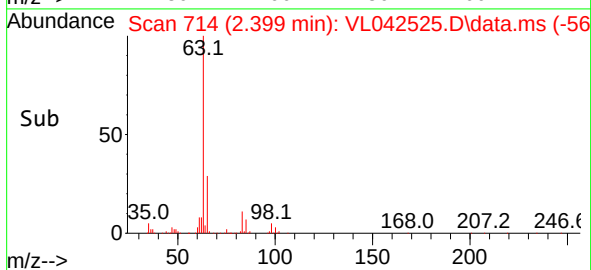
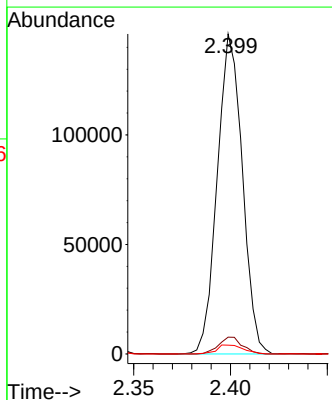
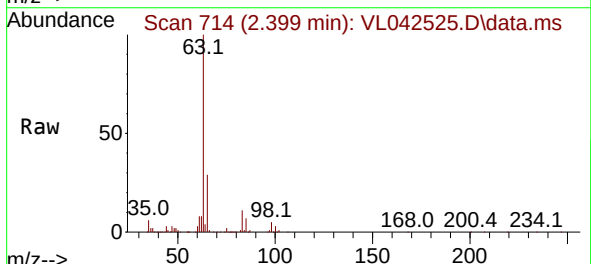
Manual Integrations
 APPROVED

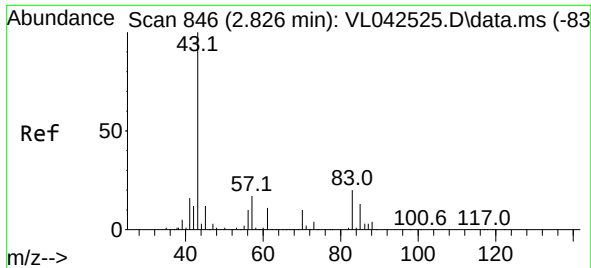
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#24
 1,1-Dichloroethane
 Concen: 9.126 ppbv
 RT: 2.399 min Scan# 714
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

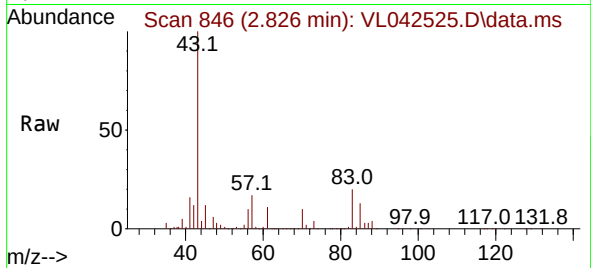
Tgt Ion: 63 Resp: 131534
 Ion Ratio Lower Upper
 63 100
 98 5.3 2.6 8.0
 100 2.8 1.4 4.2





#25
Ethyl Acetate
Concen: 10.175 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

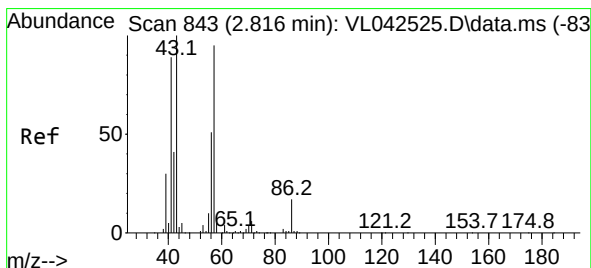
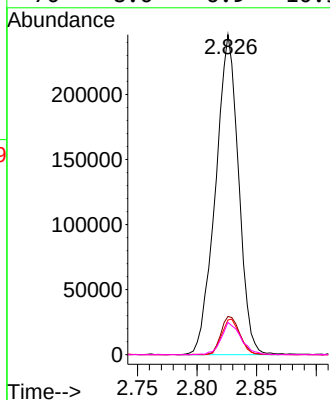
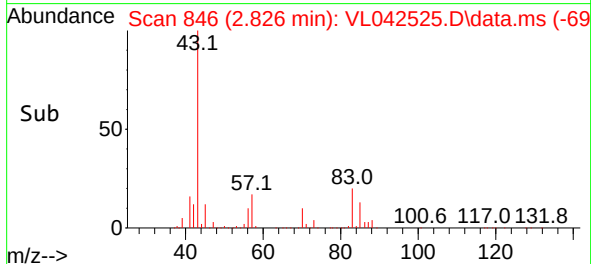
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



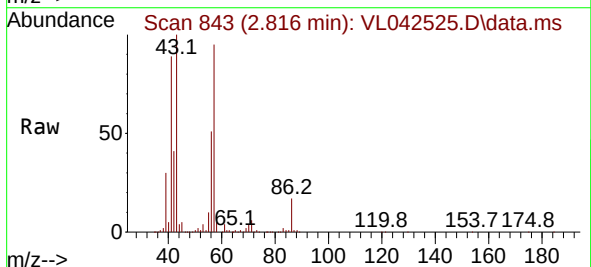
Tgt Ion: 43 Resp: 330659
Ion Ratio Lower Upper
43 100
45 9.8 7.9 11.9
61 8.9 7.1 10.7
70 8.6 6.9 10.3

Manual Integrations
APPROVED

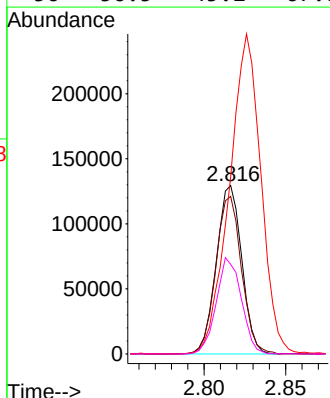
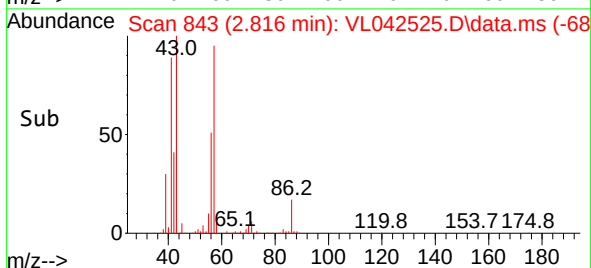
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

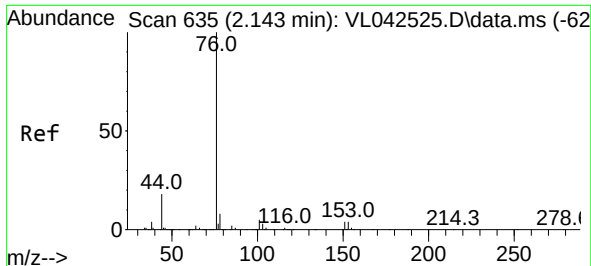


#26
Hexane
Concen: 10.498 ppbv
RT: 2.816 min Scan# 843
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



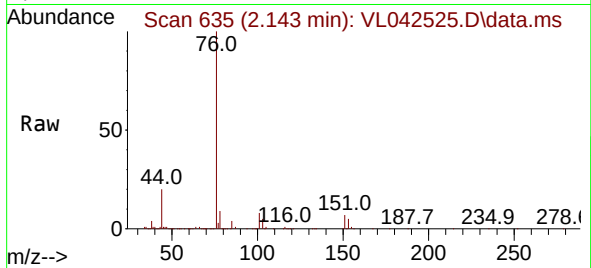
Tgt Ion: 57 Resp: 140065
Ion Ratio Lower Upper
57 100
41 95.1 76.1 114.1
43 236.5 188.9 283.3
56 56.5 45.2 67.8





#27
Carbon Disulfide
Concen: 9.467 ppbv
RT: 2.143 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

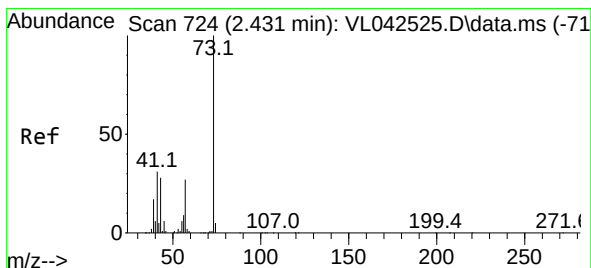
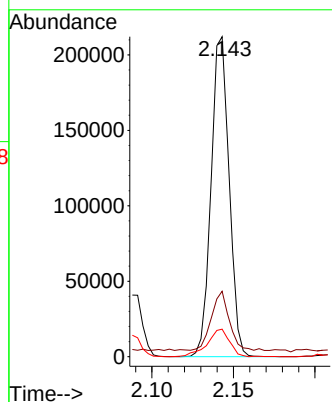
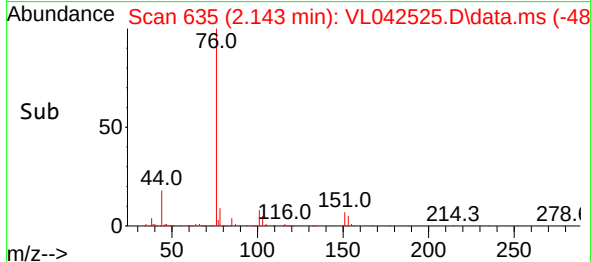
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



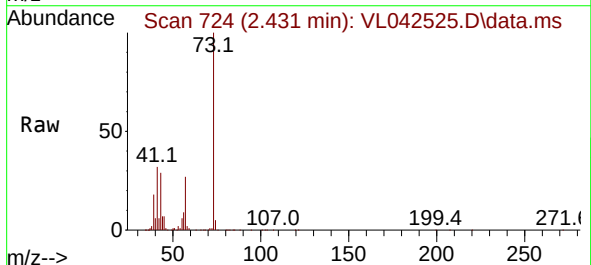
Tgt Ion: 76 Resp: 16305
Ion Ratio Lower Upper
76 100
44 21.0 17.1 25.7
78 10.7 8.6 12.8

Manual Integrations
APPROVED

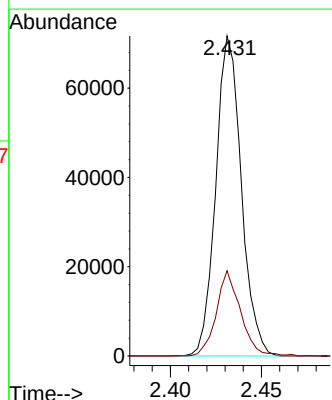
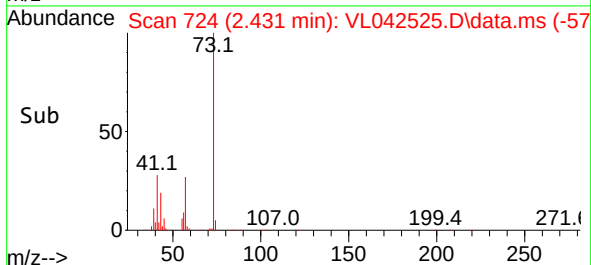
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

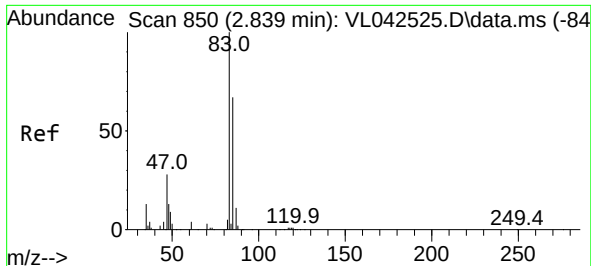


#28
Methyl tert-Butyl Ether
Concen: 9.440 ppbv
RT: 2.431 min Scan# 724
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



Tgt Ion: 73 Resp: 69971
Ion Ratio Lower Upper
73 100
57 25.4 20.3 30.5





#29

Chloroform

Concen: 8.919 ppbv

RT: 2.839 min Scan# 850

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 83 Resp: 246790

Ion Ratio Lower Upper

83 100

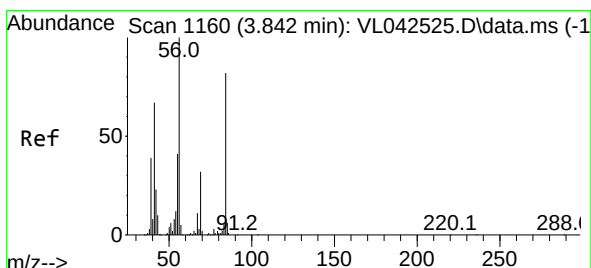
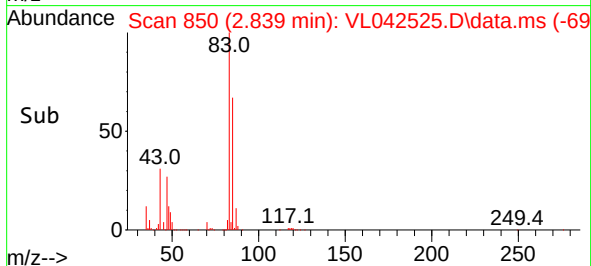
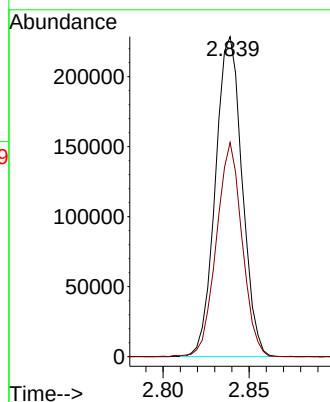
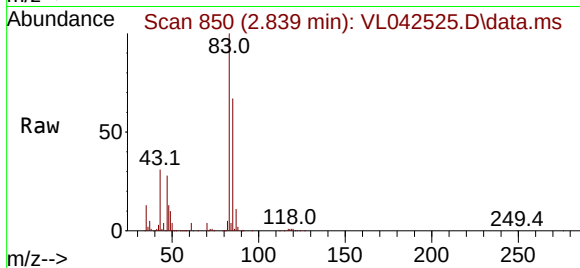
85 66.9 53.5 80.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#30

Cyclohexane

Concen: 10.787 ppbv

RT: 3.842 min Scan# 1160

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

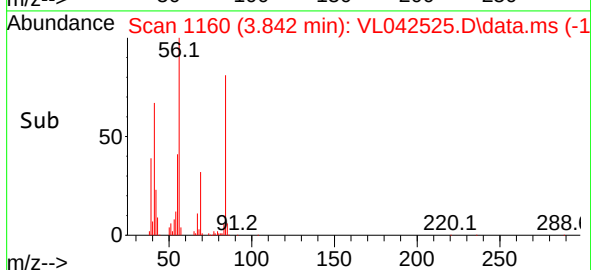
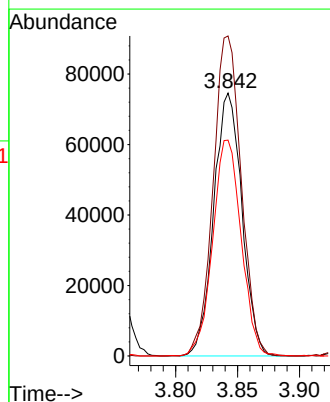
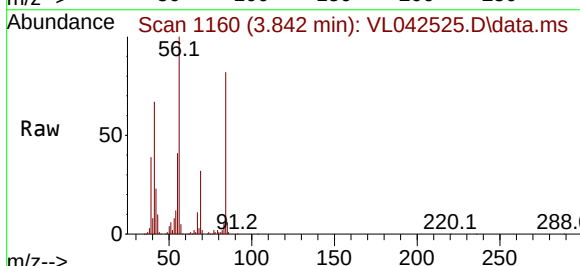
Tgt Ion: 84 Resp: 118162

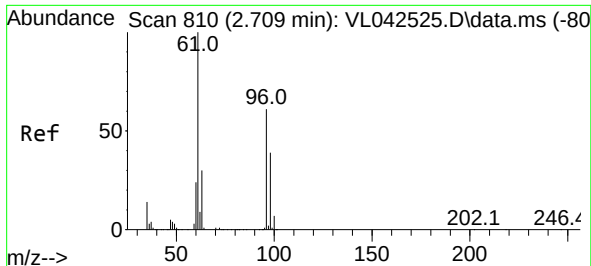
Ion Ratio Lower Upper

84 100

56 121.4 97.1 145.7

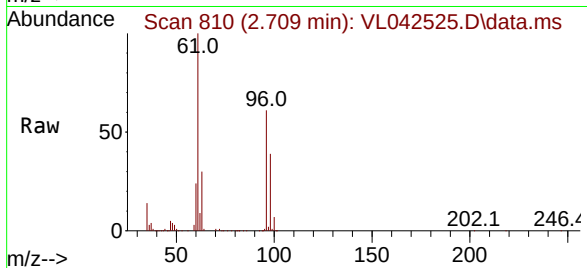
41 83.1 66.6 99.8





#31
 cis-1,2-Dichloroethene
 Concen: 9.788 ppbv
 RT: 2.709 min Scan# 810
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

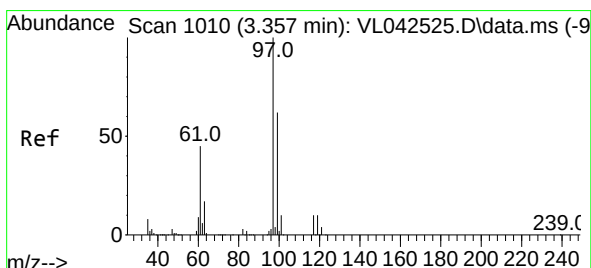
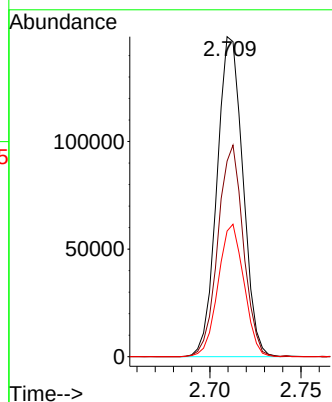
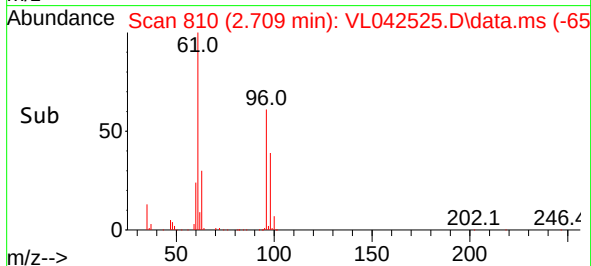
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



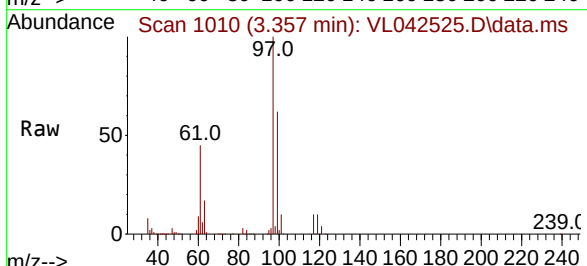
Tgt Ion: 61 Resp: 147461
 Ion Ratio Lower Upper
 61 100
 96 61.1 48.9 73.3
 98 39.3 31.4 47.2

Manual Integrations
 APPROVED

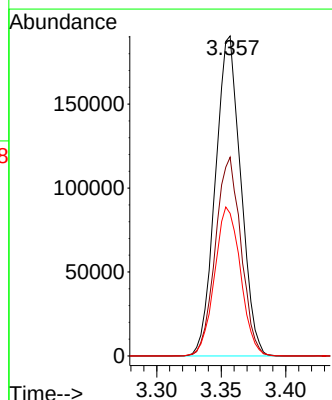
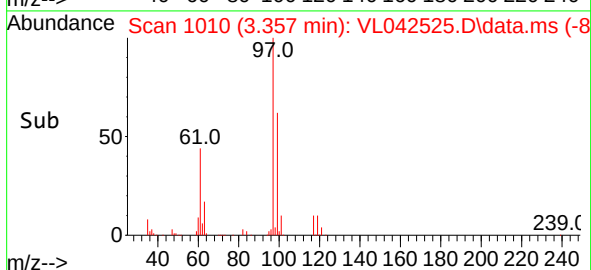
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

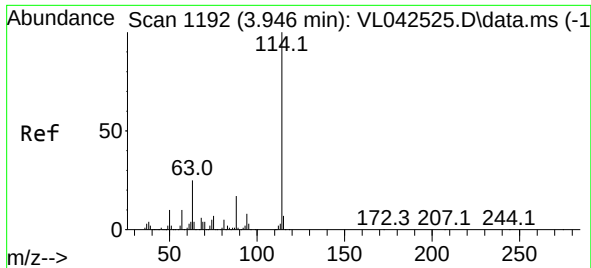


#32
 1,1,1-Trichloroethane
 Concen: 9.331 ppbv
 RT: 3.357 min Scan# 1010
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57



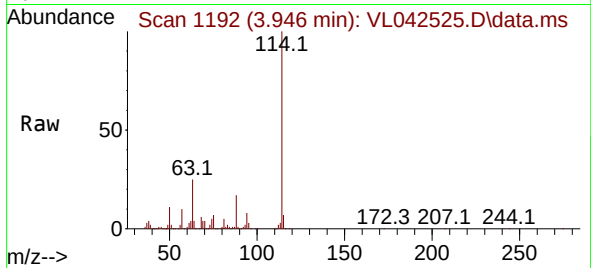
Tgt Ion: 97 Resp: 260477
 Ion Ratio Lower Upper
 97 100
 99 62.6 50.1 75.1
 61 47.7 38.2 57.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.946 min Scan# 1192
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

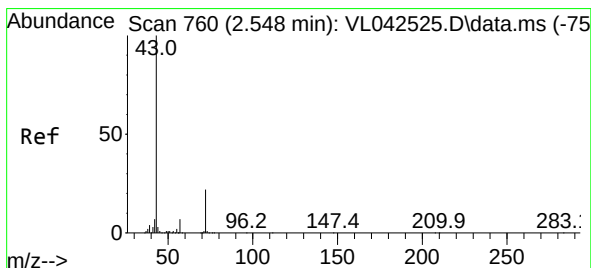
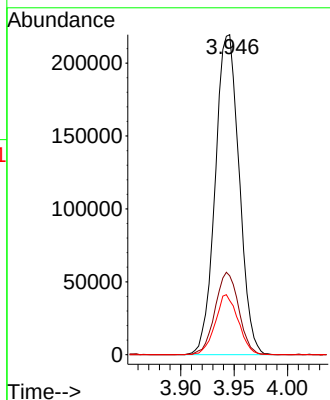
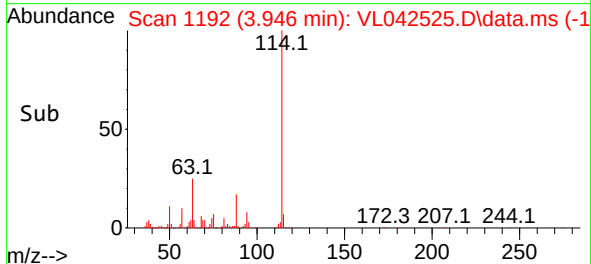
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



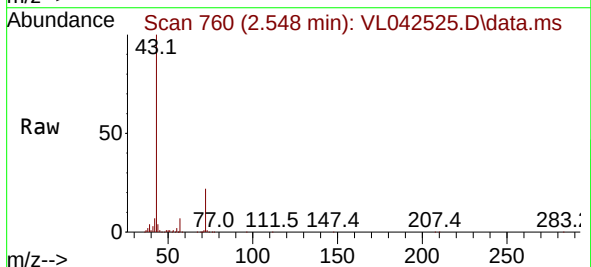
Tgt Ion:114 Resp: 341715
Ion Ratio Lower Upper
114 100
63 25.5 20.4 30.6
88 18.1 14.5 21.7

Manual Integrations
APPROVED

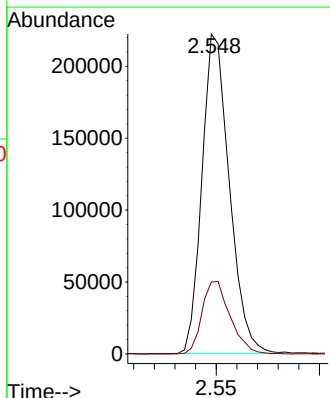
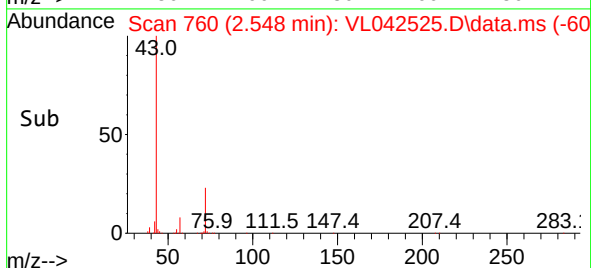
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

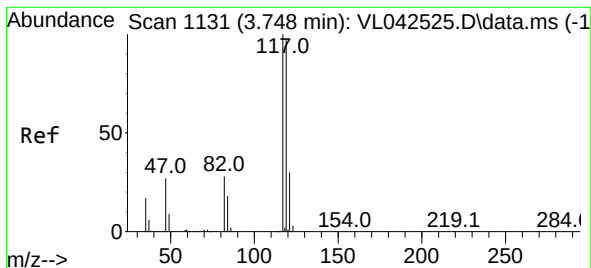


#34
2-Butanone
Concen: 9.075 ppbv
RT: 2.548 min Scan# 760
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



Tgt Ion: 43 Resp: 204394
Ion Ratio Lower Upper
43 100
72 23.4 18.7 28.1





#35

Carbon Tetrachloride

Concen: 8.956 ppbv

RT: 3.748 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

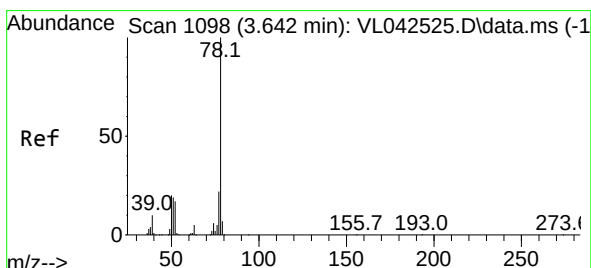
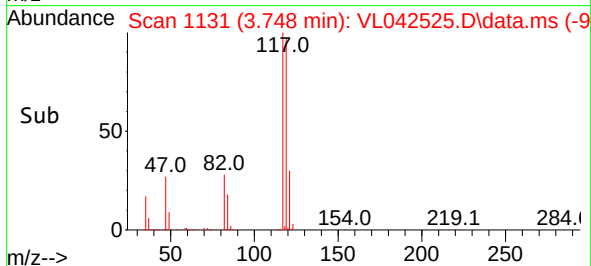
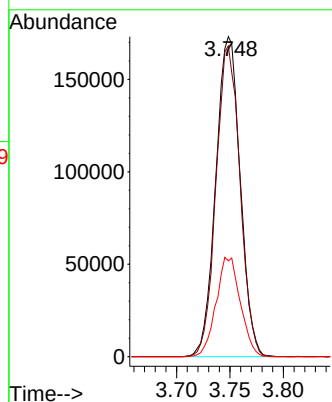
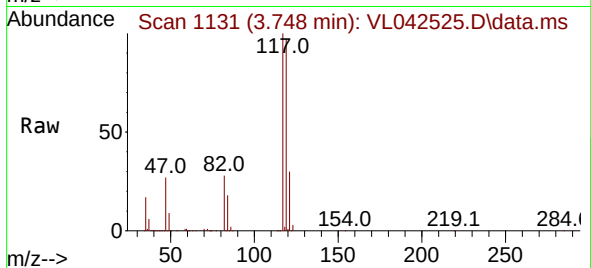
Tgt Ion:	117	Resp:	27514
Ion	Ratio	Lower	Upper
117	100		
119	97.1	77.7	116.5
121	30.0	24.0	36.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#36

Benzene

Concen: 9.522 ppbv

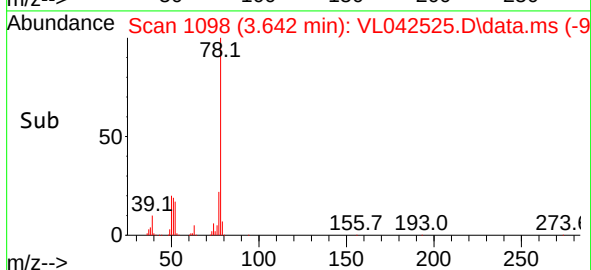
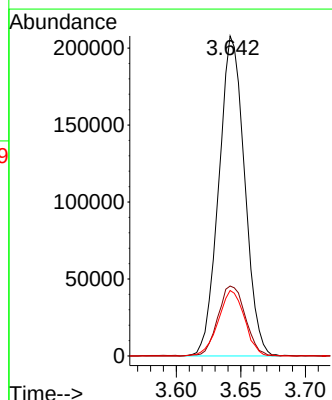
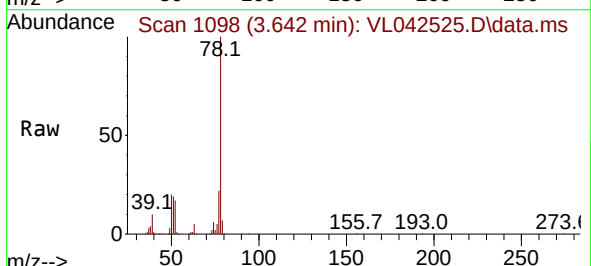
RT: 3.642 min Scan# 1098

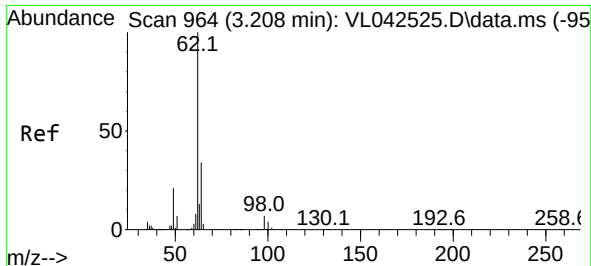
Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

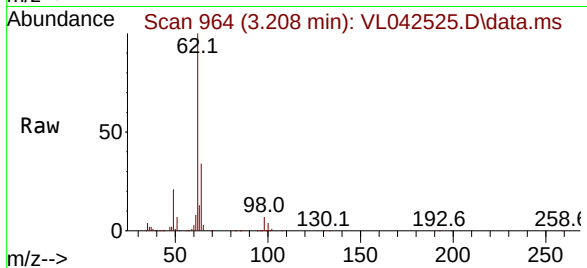
Tgt Ion:	78	Resp:	288357
Ion	Ratio	Lower	Upper
78	100		
77	21.8	17.4	26.2
50	20.4	16.3	24.5





#37
1,2-Dichloroethane
Concen: 9.003 ppbv
RT: 3.208 min Scan# 964
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

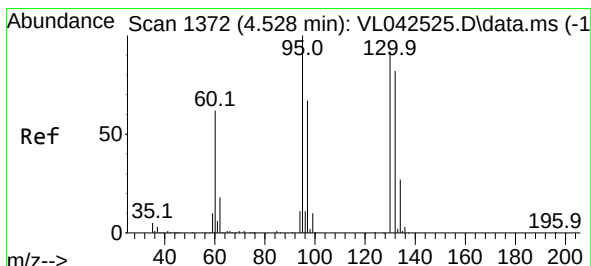
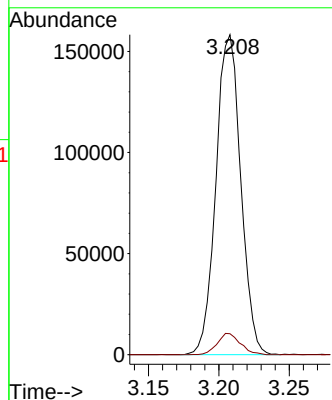
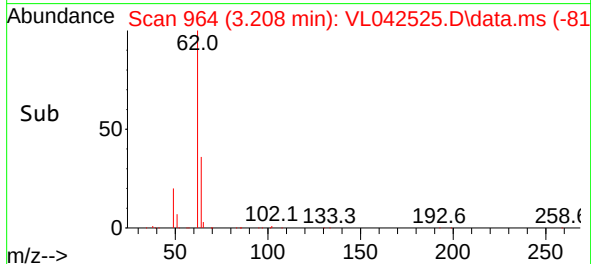
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



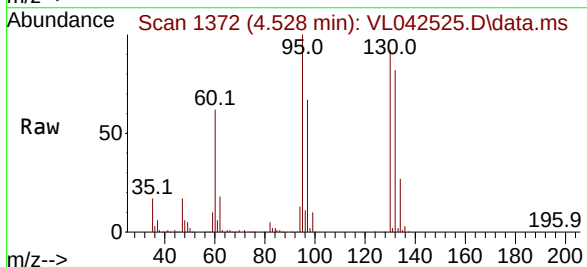
Tgt Ion: 62 Resp: 19447
Ion Ratio Lower Upper
62 100
98 6.2 5.0 7.4

Manual Integrations
APPROVED

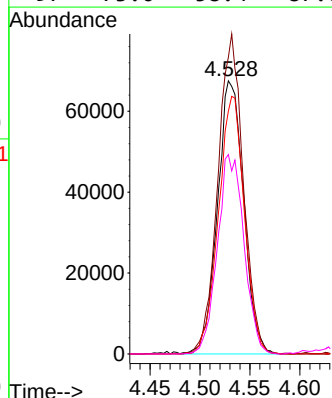
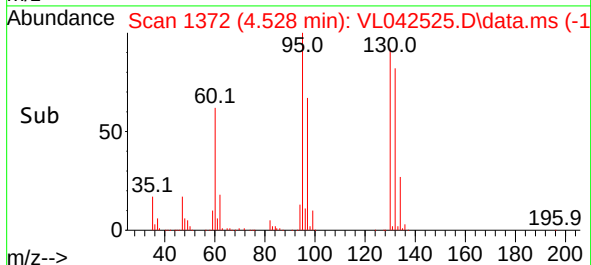
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

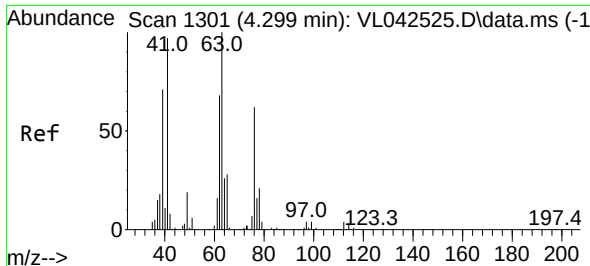


#38
Trichloroethene
Concen: 9.520 ppbv
RT: 4.528 min Scan# 1372
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



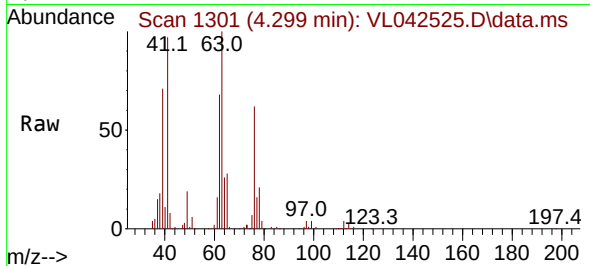
Tgt Ion:130 Resp: 123174
Ion Ratio Lower Upper
130 100
95 108.7 87.0 130.4
132 88.9 71.1 106.7
97 73.0 58.4 87.6





#39
1,2-Dichloropropane
Concen: 9.342 ppbv
RT: 4.299 min Scan# 1301
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

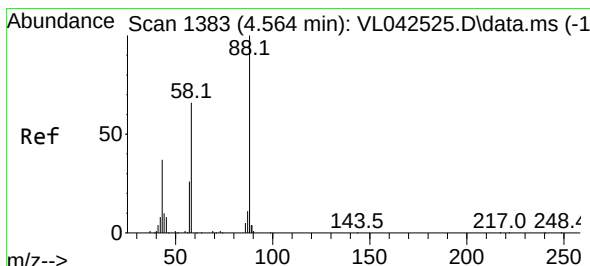
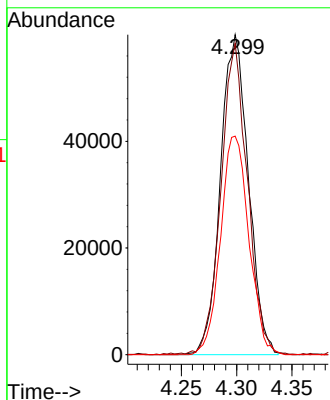
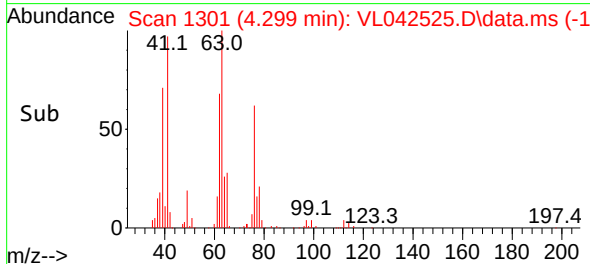
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



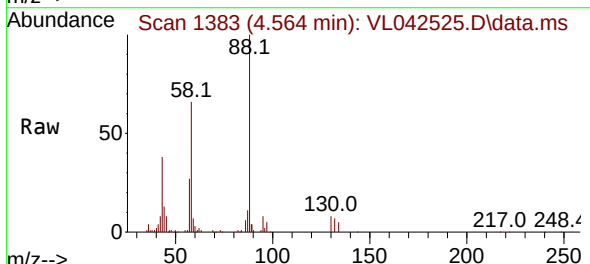
Tgt Ion: 63 Resp: 10531
Ion Ratio Lower Upper
63 100
41 96.9 77.5 116.3
62 68.3 54.6 82.0

Manual Integrations
APPROVED

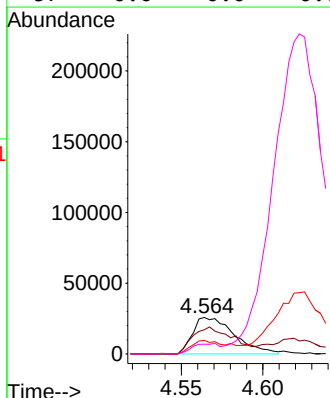
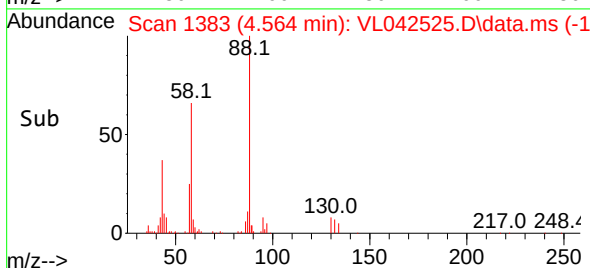
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

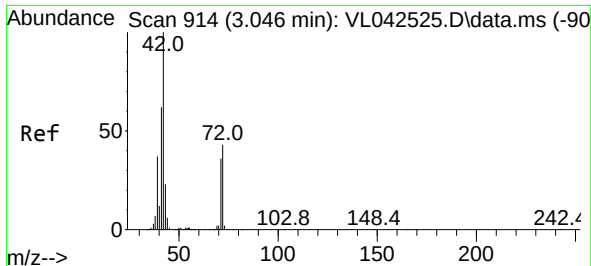


#40
1,4-Dioxane
Concen: 10.246 ppbv
RT: 4.564 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



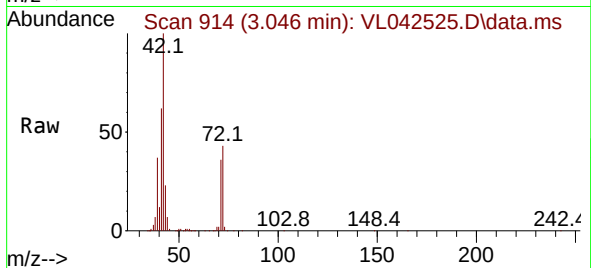
Tgt Ion: 88 Resp: 46049
Ion Ratio Lower Upper
88 100
58 75.5 58.2 87.2
43 37.5 27.9 41.9
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 10.824 ppbv
RT: 3.046 min Scan# 914
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

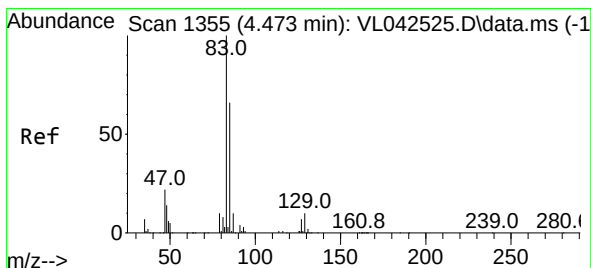
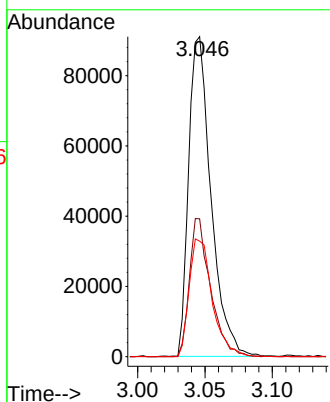
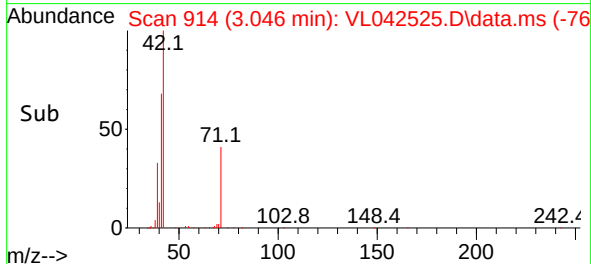
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



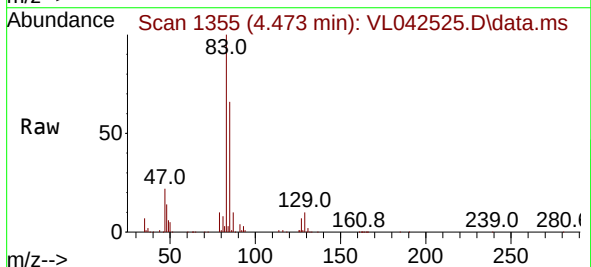
Tgt Ion: 42 Resp: 105158
Ion Ratio Lower Upper
42 100
72 40.9 32.7 49.1
71 38.0 30.4 45.6

Manual Integrations
APPROVED

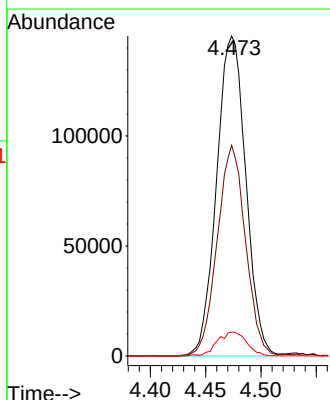
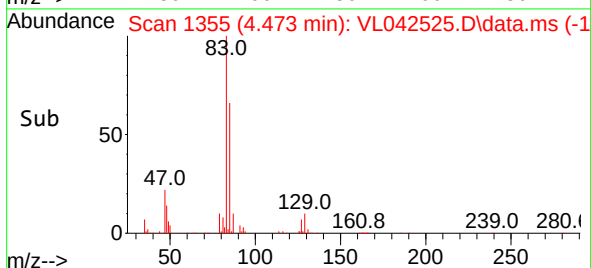
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

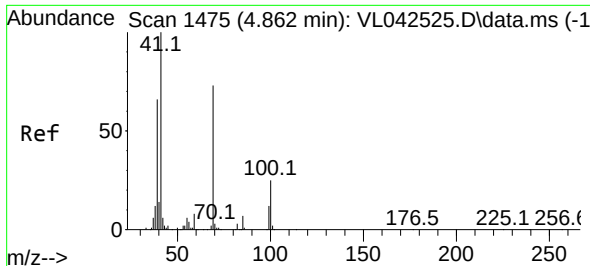


#42
Bromodichloromethane
Concen: 9.286 ppbv
RT: 4.473 min Scan# 1355
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



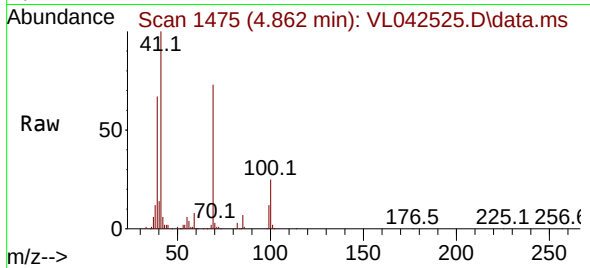
Tgt Ion: 83 Resp: 267225
Ion Ratio Lower Upper
83 100
85 65.8 52.6 79.0
127 7.5 6.0 9.0





#43
Methyl Methacrylate
Concen: 10.879 ppbv
RT: 4.862 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

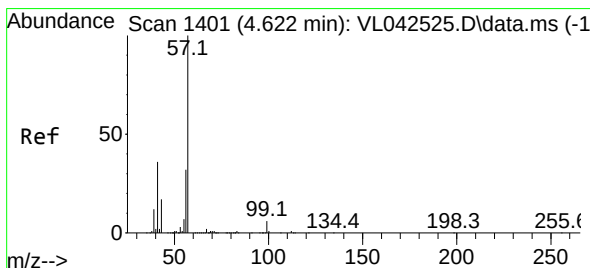
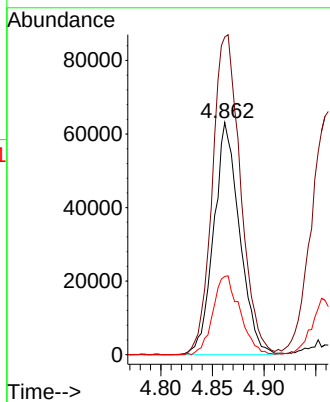
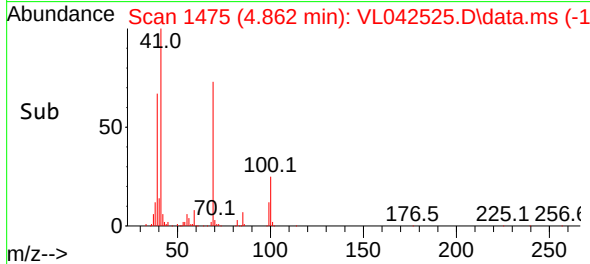
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010



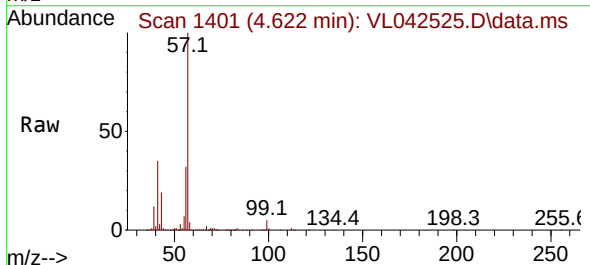
Tgt Ion: 69 Resp: 110028
Ion Ratio Lower Upper
69 100
41 150.0 119.9 179.9
100 35.5 28.4 42.6

Manual Integrations
APPROVED

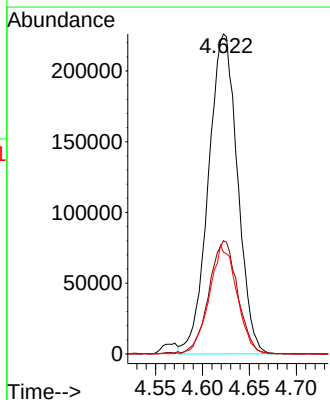
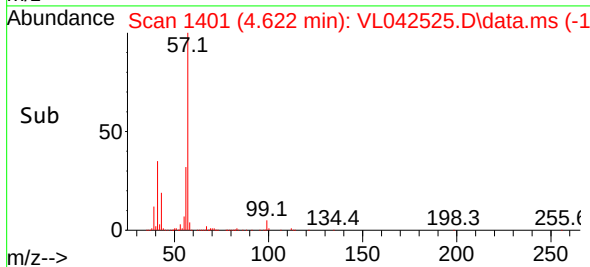
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

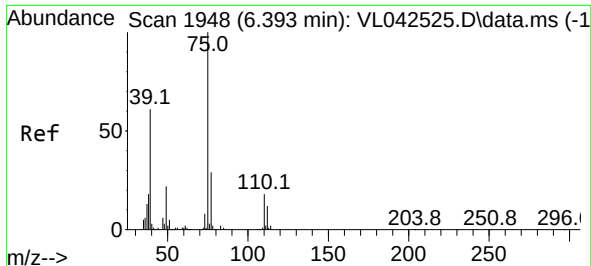


#44
2,2,4-Trimethylpentane
Concen: 10.240 ppbv
RT: 4.622 min Scan# 1401
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



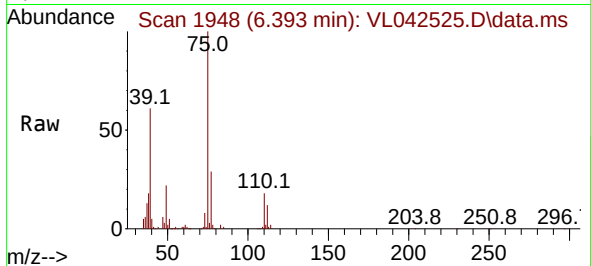
Tgt Ion: 57 Resp: 486999
Ion Ratio Lower Upper
57 100
41 35.4 28.3 42.5
56 32.4 25.9 38.9





#45
 t-1,3-Dichloropropene
 Concen: 10.664 ppbv
 RT: 6.393 min Scan# 1948
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

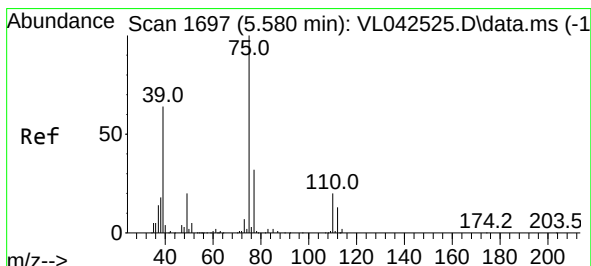
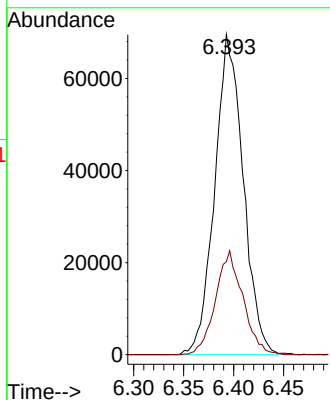
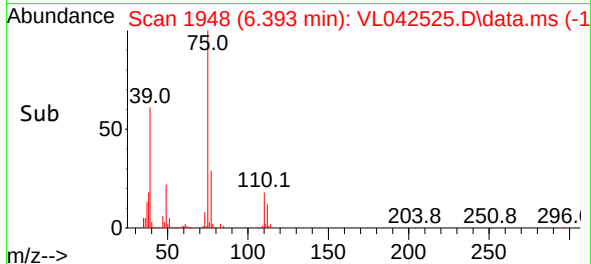
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



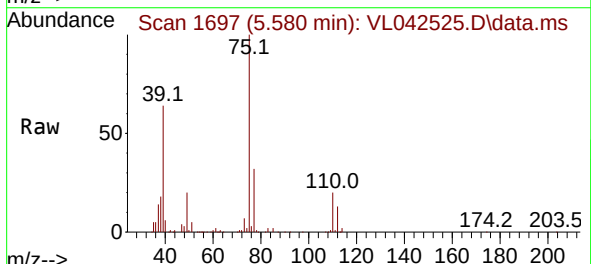
Tgt Ion: 75 Resp: 137698
 Ion Ratio Lower Upper
 75 100
 77 29.1 23.3 34.9

Manual Integrations
 APPROVED

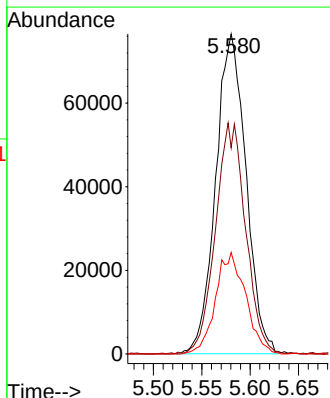
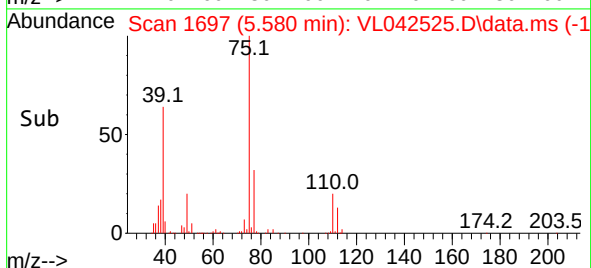
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

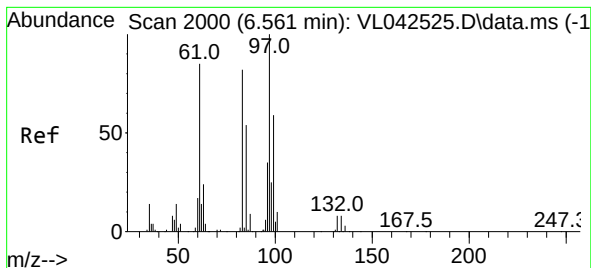


#46
 cis-1,3-Dichloropropene
 Concen: 10.673 ppbv
 RT: 5.580 min Scan# 1697
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57



Tgt Ion: 75 Resp: 166227
 Ion Ratio Lower Upper
 75 100
 39 64.0 51.2 76.8
 77 31.7 25.4 38.0





#47

1,1,2-Trichloroethane

Concen: 9.025 ppbv

RT: 6.561 min Scan# 2000

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 97 Resp: 11979

Ion Ratio Lower Upper

97 100

83 82.5 66.0 99.0

85 53.5 42.8 64.2

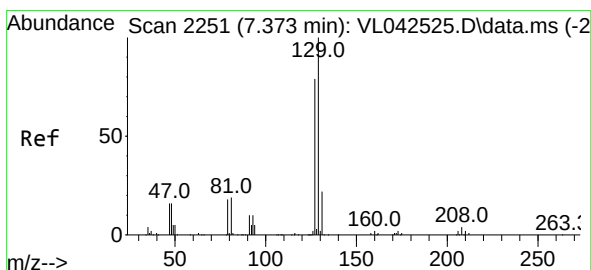
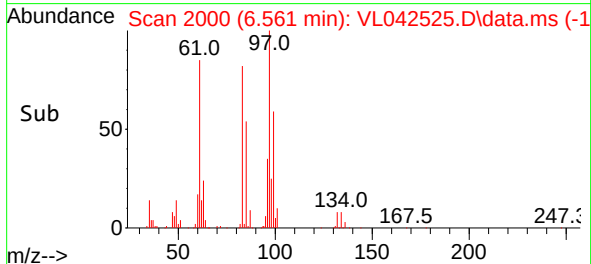
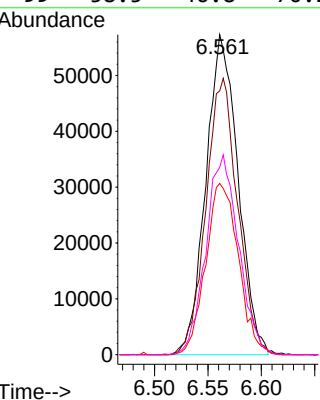
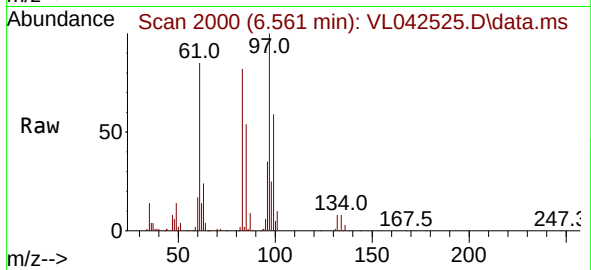
99 58.5 46.8 70.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#48

Dibromochloromethane

Concen: 9.517 ppbv

RT: 7.373 min Scan# 2251

Delta R.T. 0.000 min

Lab File: VL042525.D

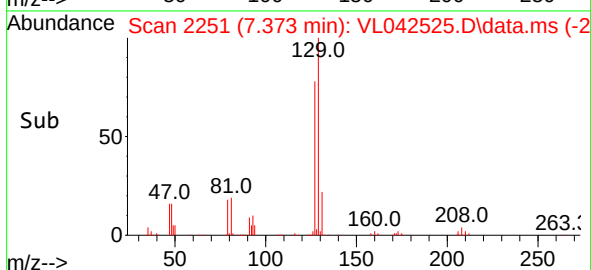
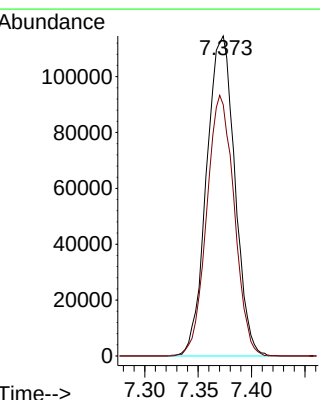
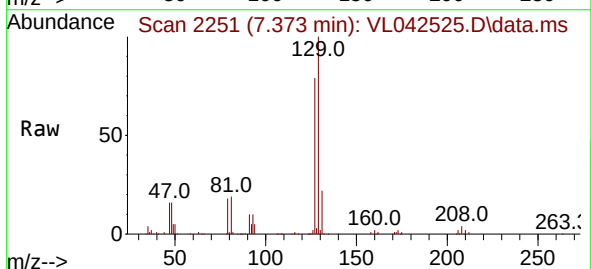
Acq: 12 May 2025 08:57

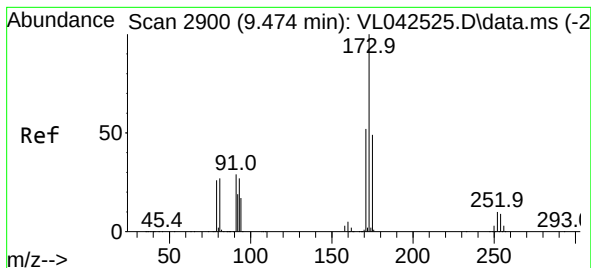
Tgt Ion:129 Resp: 211079

Ion Ratio Lower Upper

129 100

127 79.2 39.6 118.8





#49

Bromoform

Concen: 9.802 ppbv

RT: 9.474 min Scan# 2900

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:173 Resp: 17840

Ion Ratio Lower Upper

173 100

175 48.9 39.1 58.7

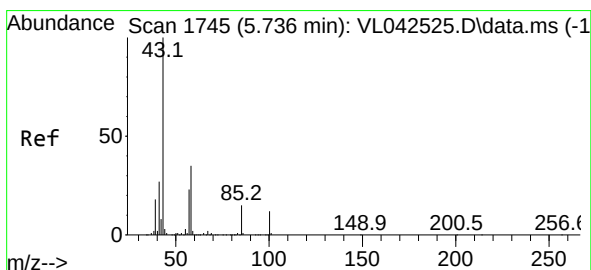
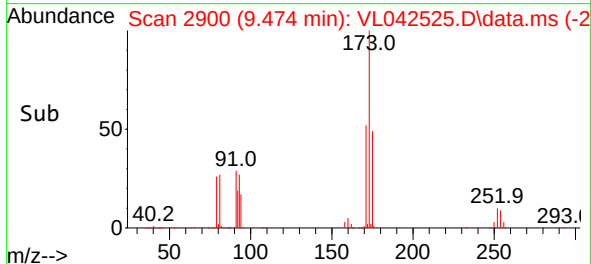
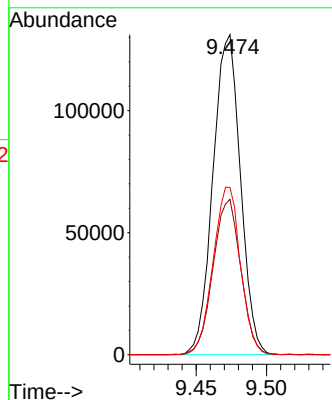
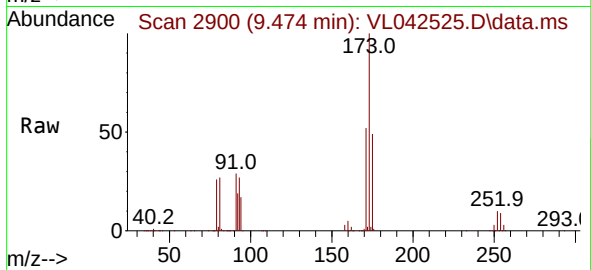
171 52.3 41.8 62.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#50

4-Methyl-2-Pentanone

Concen: 10.684 ppbv m

RT: 5.736 min Scan# 1745

Delta R.T. 0.000 min

Lab File: VL042525.D

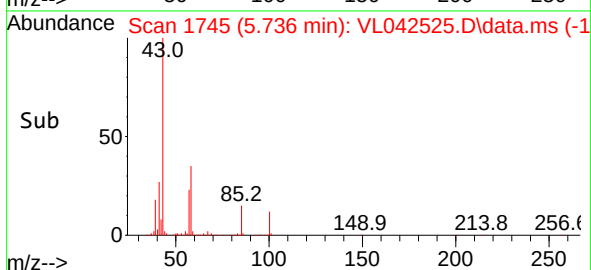
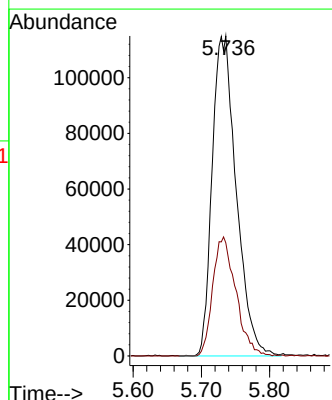
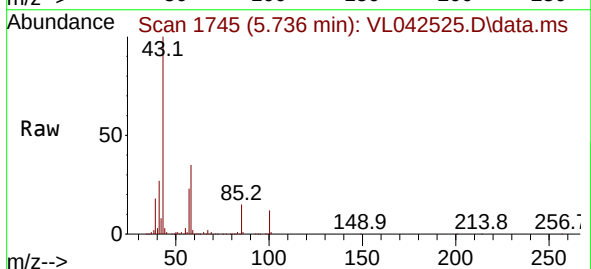
Acq: 12 May 2025 08:57

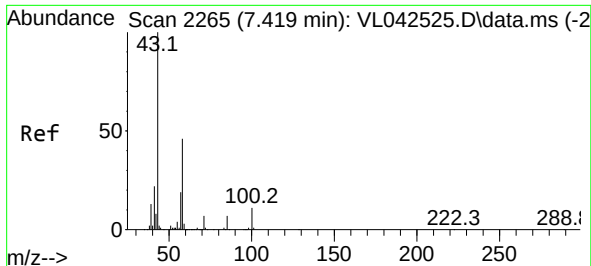
Tgt Ion: 43 Resp: 282238

Ion Ratio Lower Upper

43 100

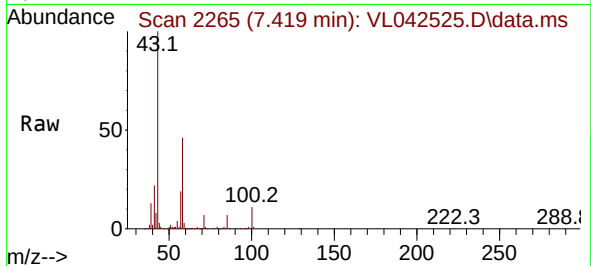
58 35.8 28.6 42.8





#51
2-Hexanone
Concen: 11.522 ppbv
RT: 7.419 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

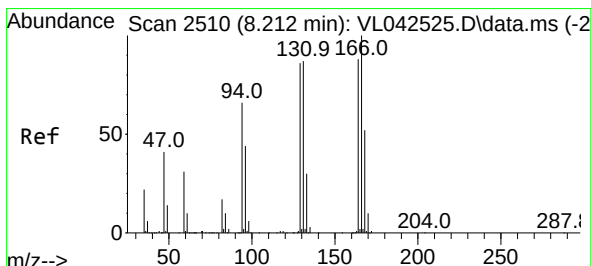
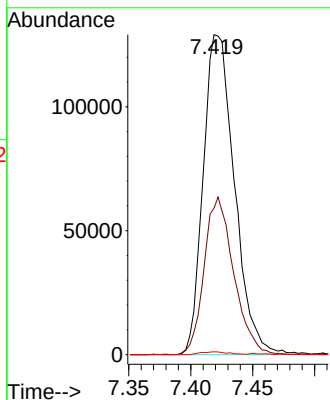
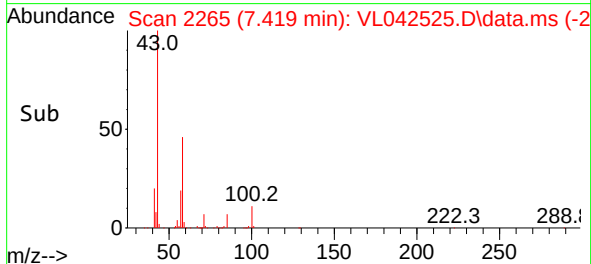
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



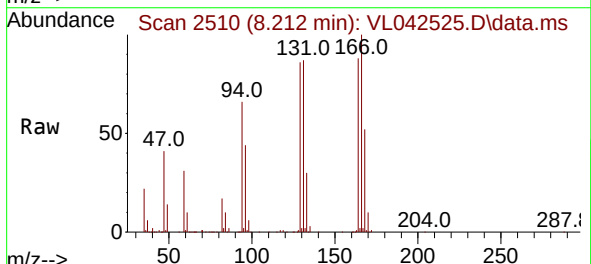
Tgt Ion: 43 Resp: 22622
Ion Ratio Lower Upper
43 100
58 46.8 37.5 56.3
98 1.1 0.9 1.3

Manual Integrations
APPROVED

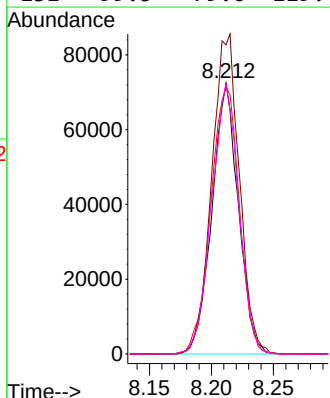
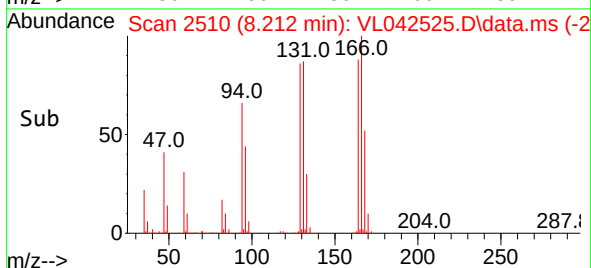
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

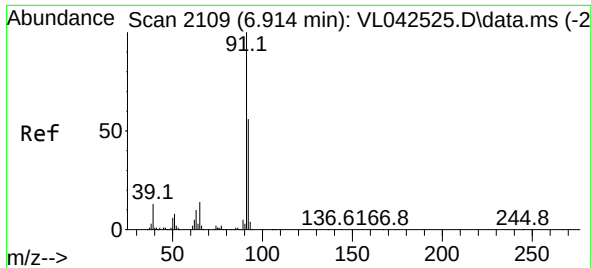


#52
Tetrachloroethene
Concen: 9.209 ppbv
RT: 8.212 min Scan# 2510
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



Tgt Ion:164 Resp: 107438
Ion Ratio Lower Upper
164 100
166 114.1 91.3 136.9
129 98.6 78.9 118.3
131 99.5 79.6 119.4





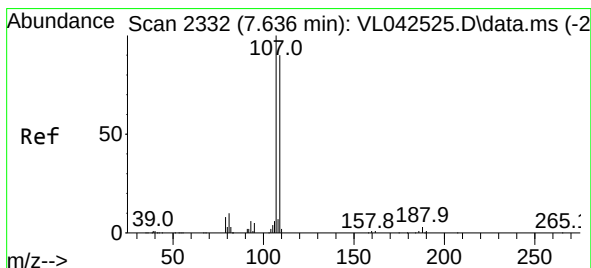
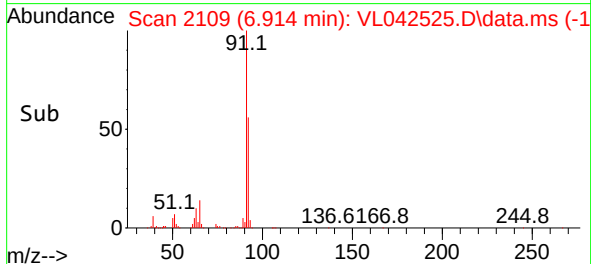
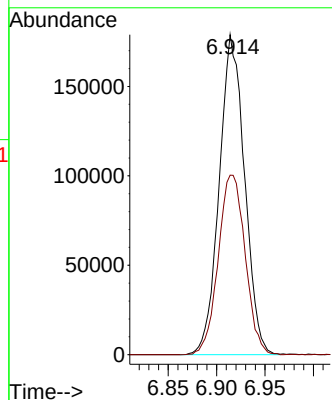
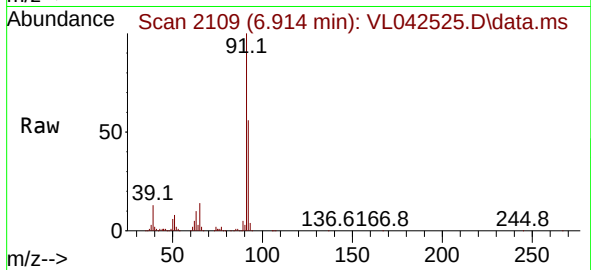
#53
Toluene
Concen: 10.955 ppbv
RT: 6.914 min Scan# 2109
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 32556
Ion Ratio Lower Upper
91 100
92 59.7 47.8 71.6

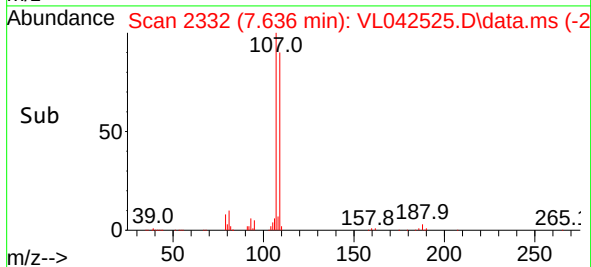
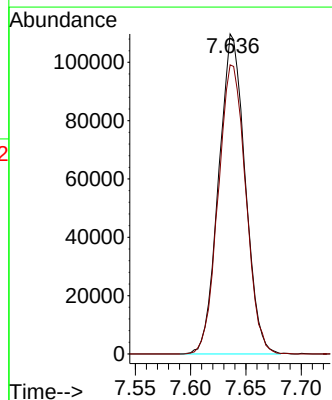
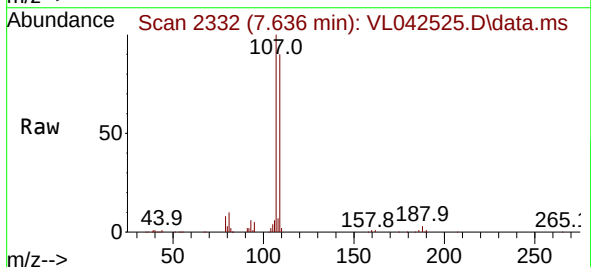
Manual Integrations
APPROVED

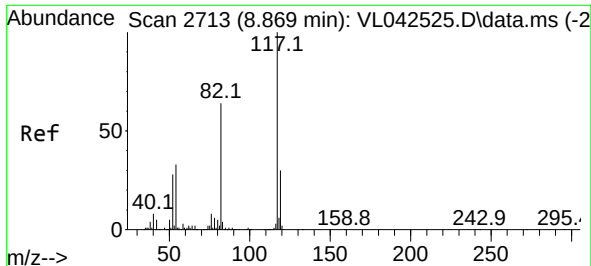
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#54
1,2-Dibromoethane
Concen: 9.400 ppbv
RT: 7.636 min Scan# 2332
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

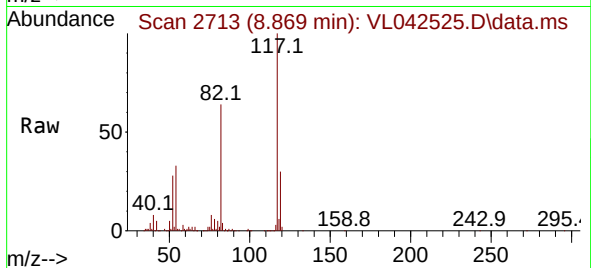
Tgt Ion:107 Resp: 182336
Ion Ratio Lower Upper
107 100
109 90.3 72.2 108.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2713
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

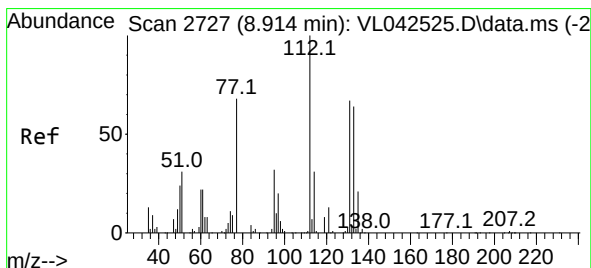
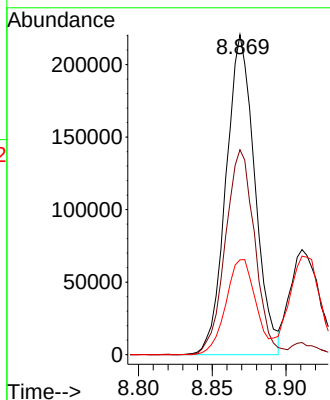
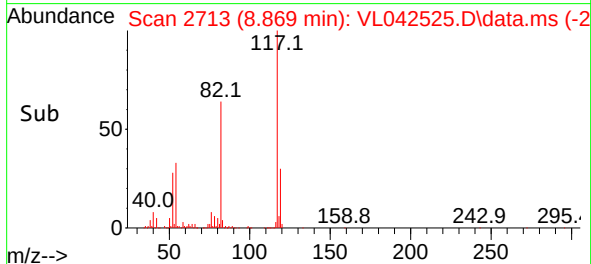
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



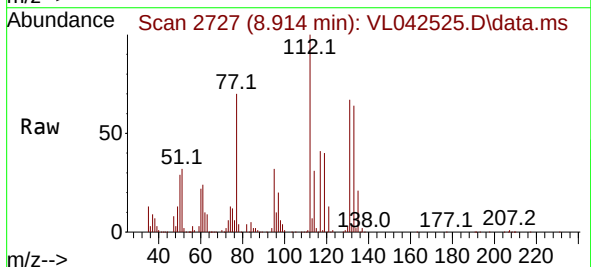
Tgt Ion:117 Resp: 299780
Ion Ratio Lower Upper
117 100
82 68.7 55.0 82.4
119 32.2 25.8 38.6

Manual Integrations
APPROVED

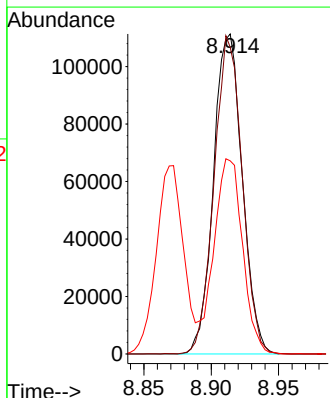
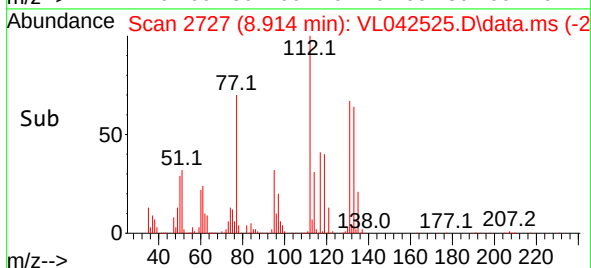
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

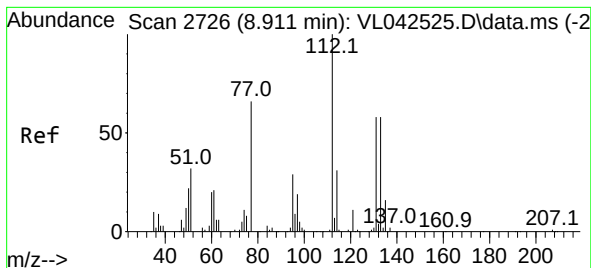


#56
1,1,1,2-Tetrachloroethane
Concen: 8.909 ppbv
RT: 8.914 min Scan# 2727
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



Tgt Ion:131 Resp: 165589
Ion Ratio Lower Upper
131 100
133 96.8 77.4 116.2
119 59.8 49.0 73.4





#57

Chlorobenzene

Concen: 9.077 ppbv

RT: 8.911 min Scan# 2726

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

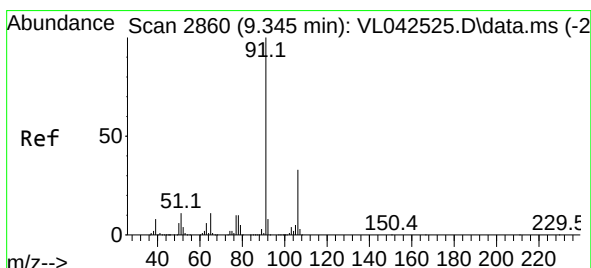
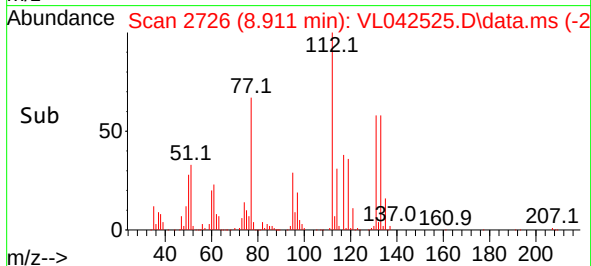
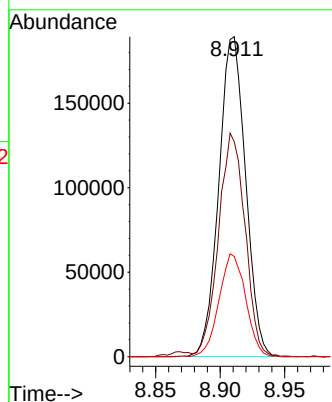
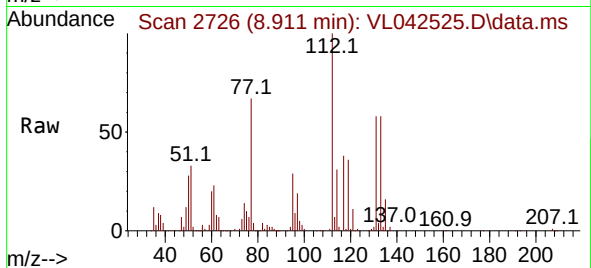
VSTDICCC010

Tgt Ion:	112	Resp:	273225
Ion Ratio	Lower	Upper	
112	100		
77	67.0	53.6	80.4
114	31.3	28.2	34.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#58

Ethyl Benzene

Concen: 11.466 ppbv

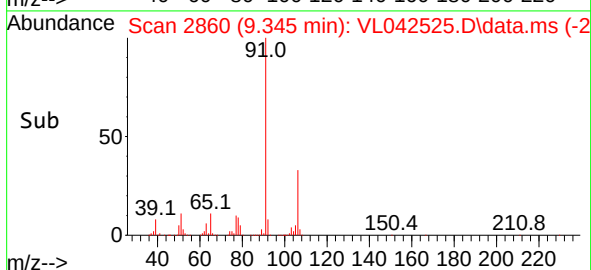
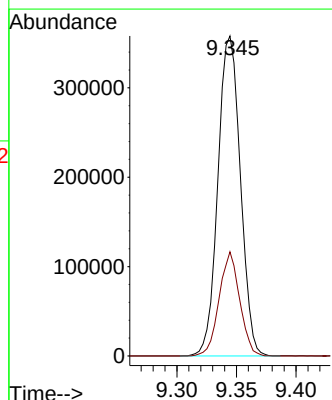
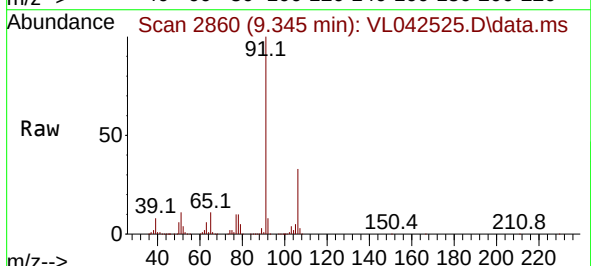
RT: 9.345 min Scan# 2860

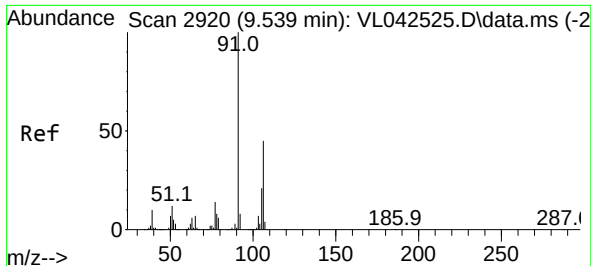
Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Tgt Ion:	91	Resp:	468520
Ion Ratio	Lower	Upper	
91	100		
106	32.5	26.0	39.0





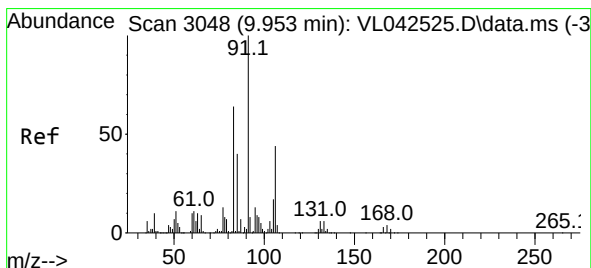
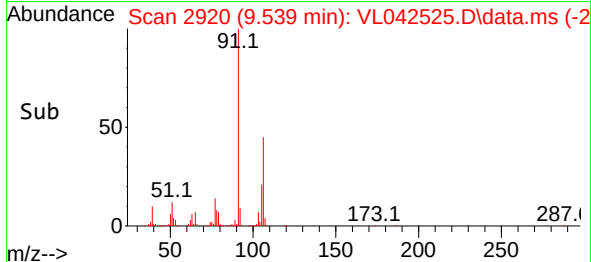
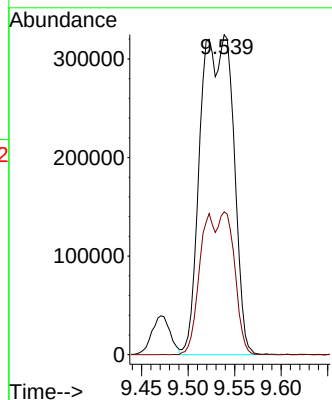
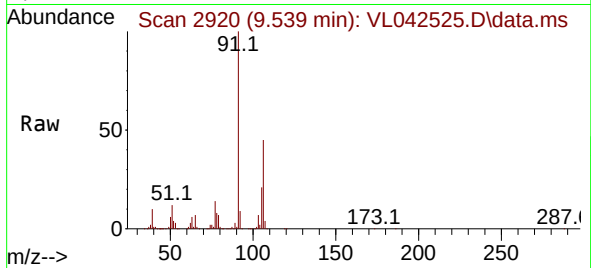
#59
m/p-Xylene
Concen: 22.134 ppbv m
RT: 9.539 min Scan# 2920
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 80456
Ion Ratio Lower Upper
91 100
106 44.3 0.0 0.0

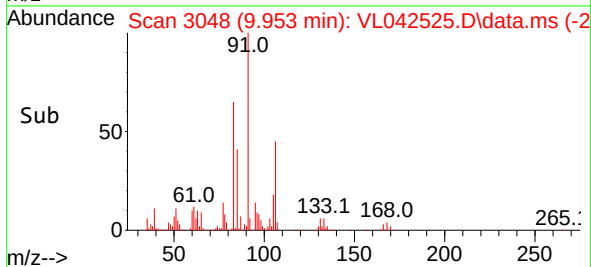
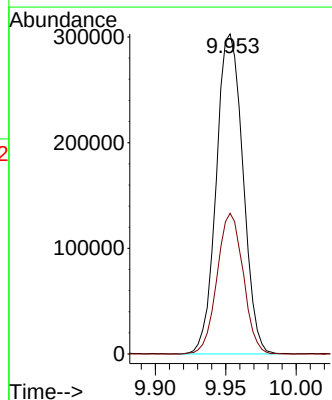
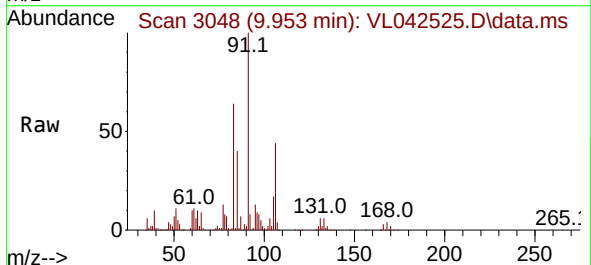
Manual Integrations
APPROVED

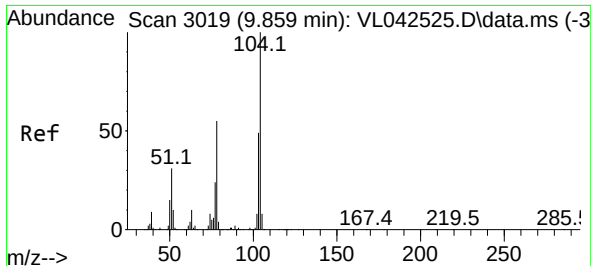
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#60
o-Xylene
Concen: 11.266 ppbv
RT: 9.953 min Scan# 3048
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

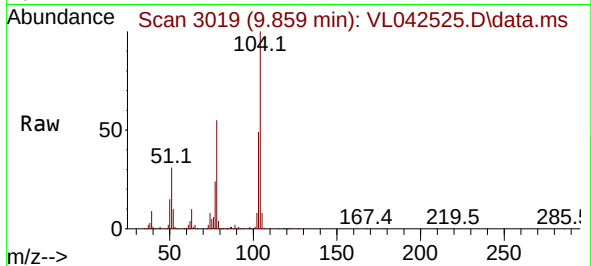
Tgt Ion: 91 Resp: 399046
Ion Ratio Lower Upper
91 100
106 43.1 21.6 64.6





#61
Styrene
Concen: 11.686 ppbv
RT: 9.859 min Scan# 3019
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

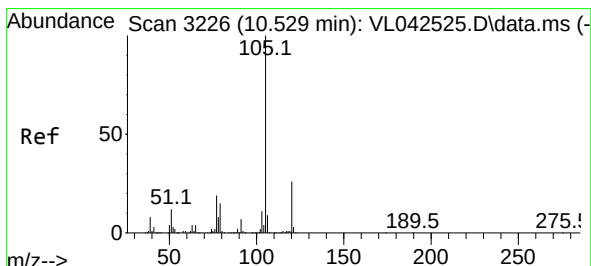
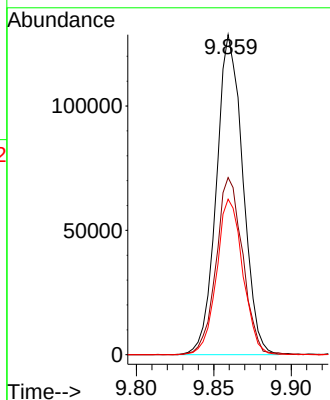
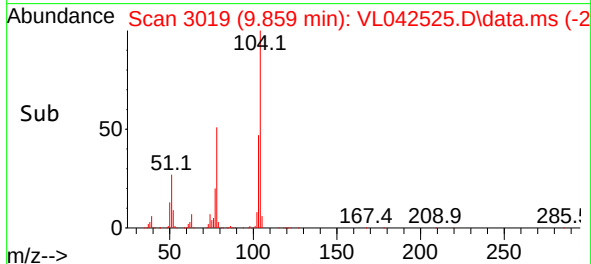
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



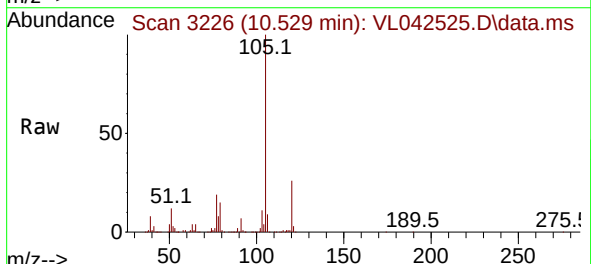
Tgt Ion:104 Resp: 152478
Ion Ratio Lower Upper
104 100
78 55.8 44.7 67.1
103 48.3 38.6 58.0

Manual Integrations
APPROVED

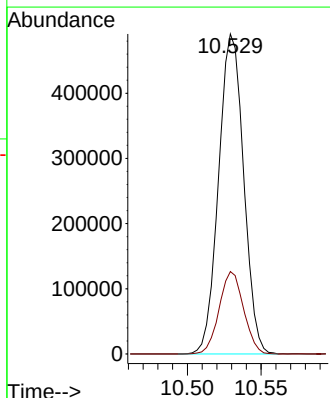
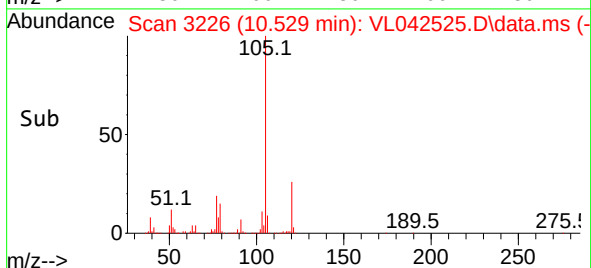
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

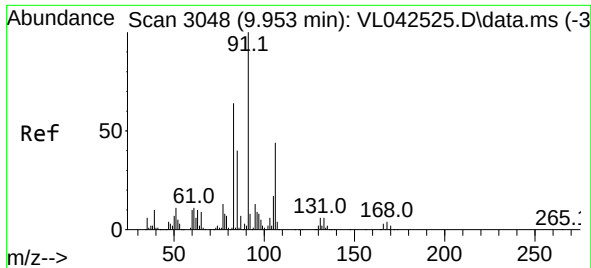


#62
Isopropylbenzene
Concen: 10.856 ppbv
RT: 10.529 min Scan# 3226
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



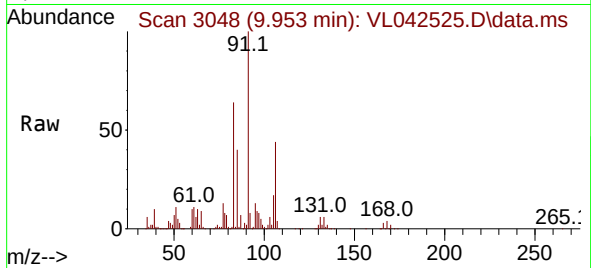
Tgt Ion:105 Resp: 579443
Ion Ratio Lower Upper
105 100
120 25.1 20.1 30.1





#63
1,1,2,2-Tetrachloroethane
Concen: 8.666 ppbv
RT: 9.953 min Scan# 3048
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

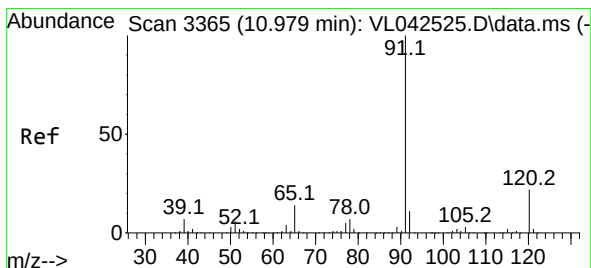
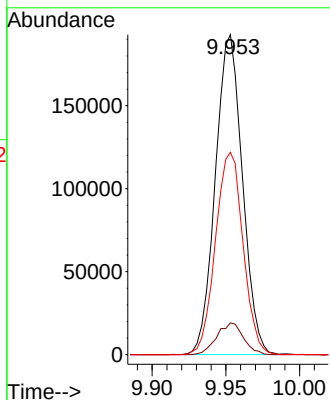
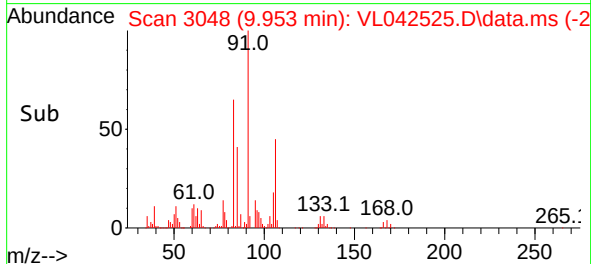
Instrument : MSVOA_L
ClientSampleId : VSTDICCC010



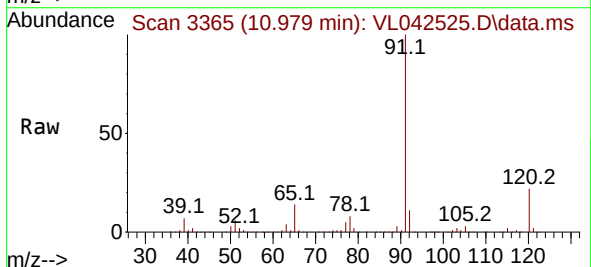
Tgt Ion: 83 Resp: 246197
Ion Ratio Lower Upper
83 100
131 9.8 4.9 14.7
85 64.5 32.3 96.8

Manual Integrations
APPROVED

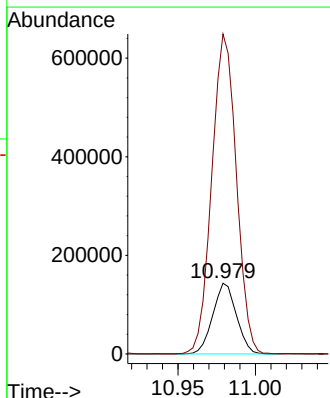
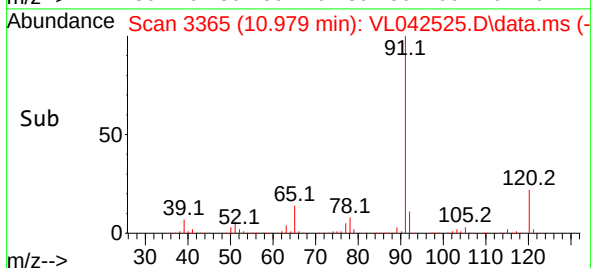
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

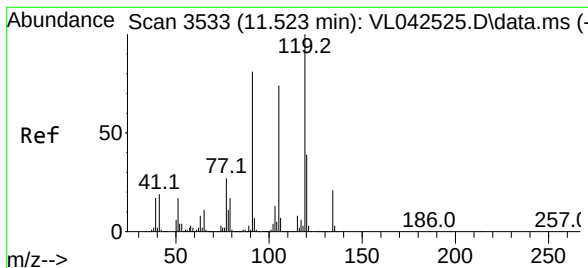


#64
n-propylbenzene
Concen: 11.231 ppbv
RT: 10.979 min Scan# 3365
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



Tgt Ion:120 Resp: 151897
Ion Ratio Lower Upper
120 100
91 472.0 377.7 566.5





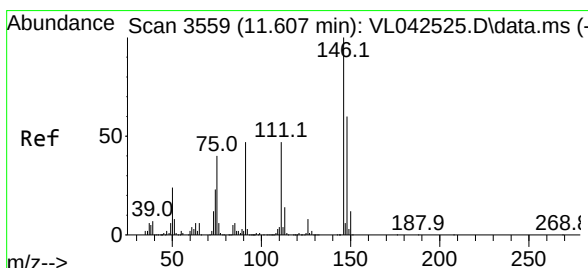
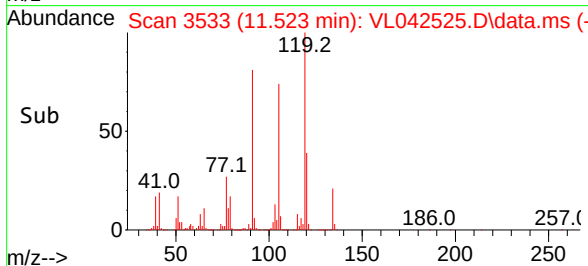
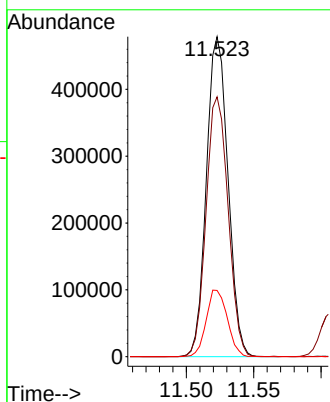
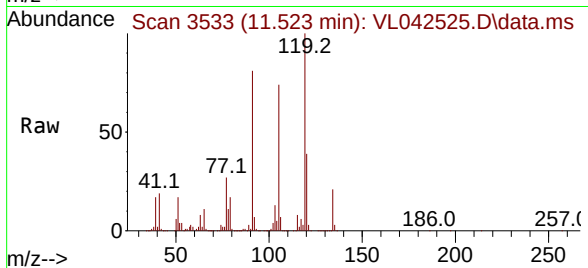
#65
tert-Butylbenzene
Concen: 10.884 ppbv
RT: 11.523 min Scan# 3533
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 119 Resp: 53345
Ion Ratio Lower Upper
119 100
91 83.2 66.6 99.8
134 20.4 16.3 24.5

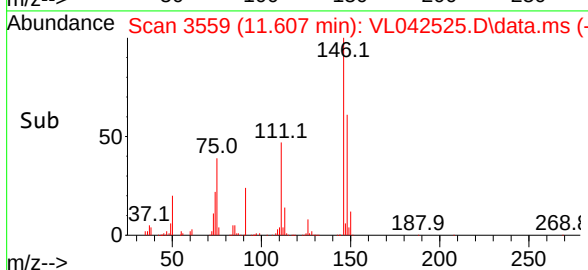
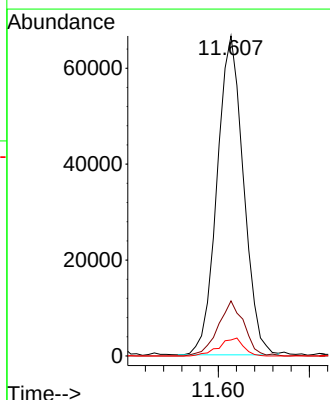
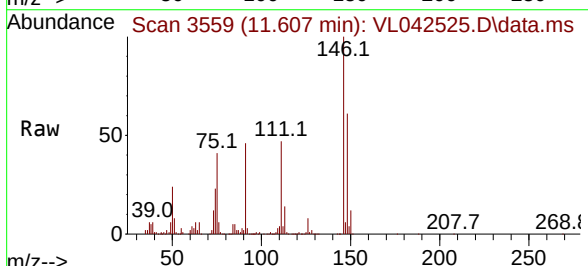
Manual Integrations
APPROVED

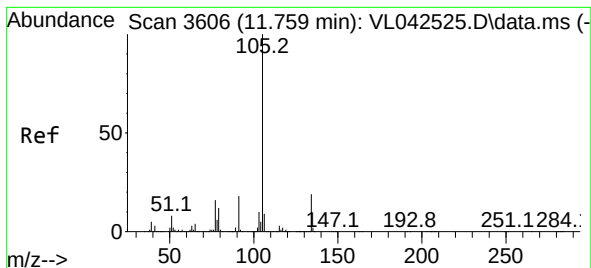
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#66
Benzyl Chloride
Concen: 10.331 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

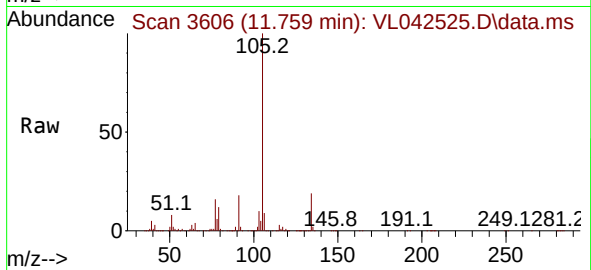
Tgt Ion: 91 Resp: 66999
Ion Ratio Lower Upper
91 100
126 17.1 13.7 20.5
128 5.2 4.2 6.2





#67
 sec-Butylbenzene
 Concen: 10.586 ppbv
 RT: 11.759 min Scan# 3606
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

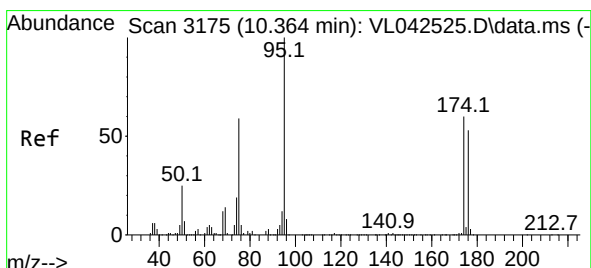
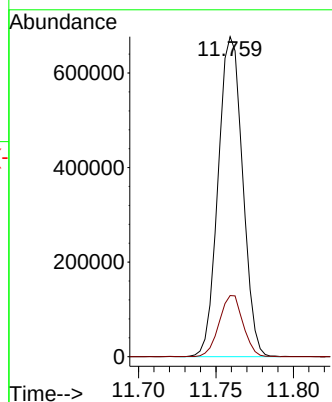
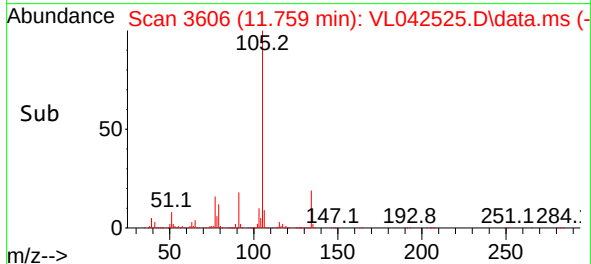
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



Tgt Ion:105 Resp: 743908
 Ion Ratio Lower Upper
 105 100
 134 18.6 14.9 22.3

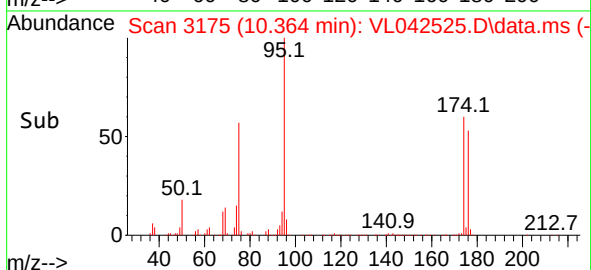
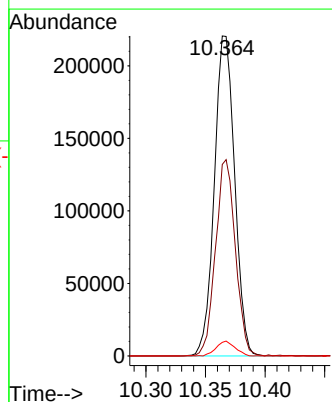
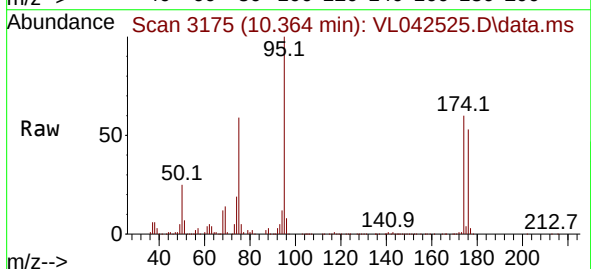
Manual Integrations
 APPROVED

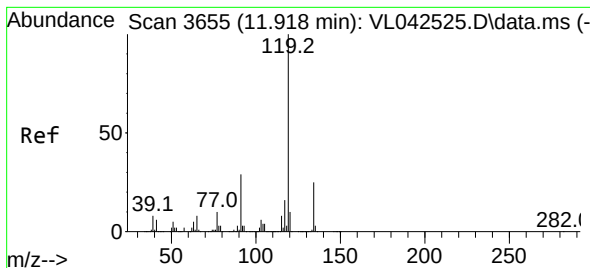
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.029 ppbv
 RT: 10.364 min Scan# 3175
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

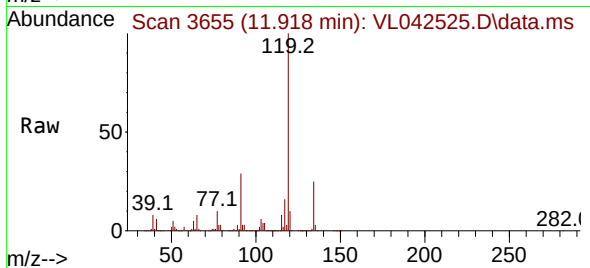
Tgt Ion: 95 Resp: 261594
 Ion Ratio Lower Upper
 95 100
 174 60.1 48.0 72.0
 175 4.4 3.5 5.3





#69
p-Isopropyltoluene
Concen: 11.163 ppbv
RT: 11.918 min Scan# 3655
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

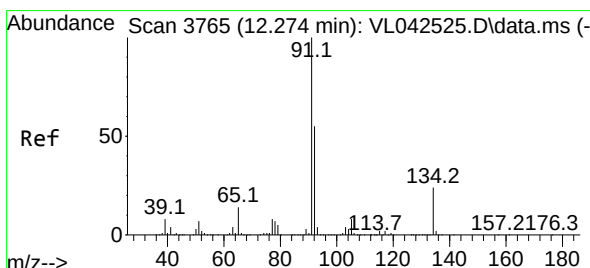
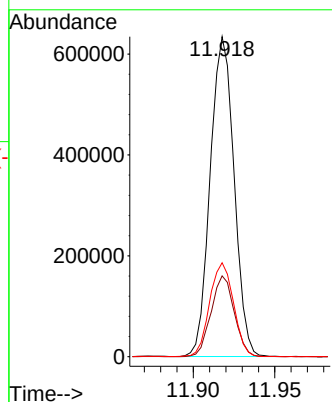
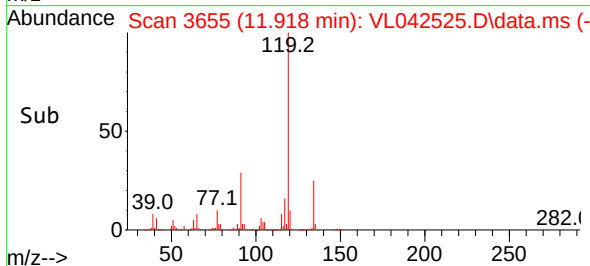
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



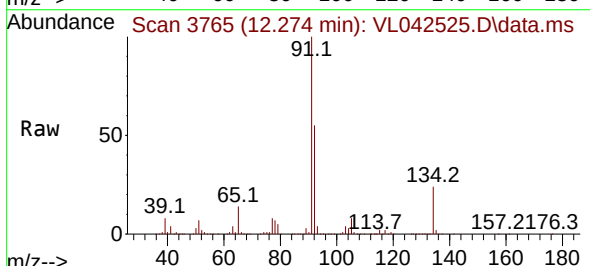
Tgt Ion:119 Resp: 644900
Ion Ratio Lower Upper
119 100
134 24.7 19.8 29.6
91 29.5 23.6 35.4

Manual Integrations
APPROVED

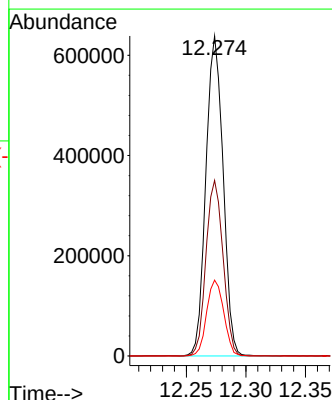
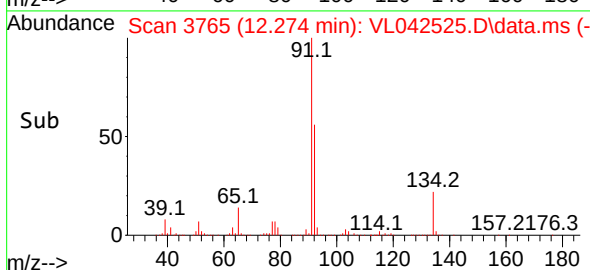
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

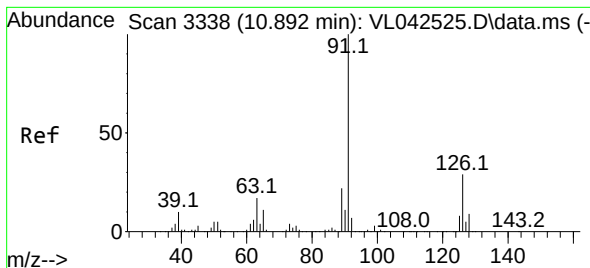


#70
n-Butylbenzene
Concen: 11.219 ppbv
RT: 12.274 min Scan# 3765
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



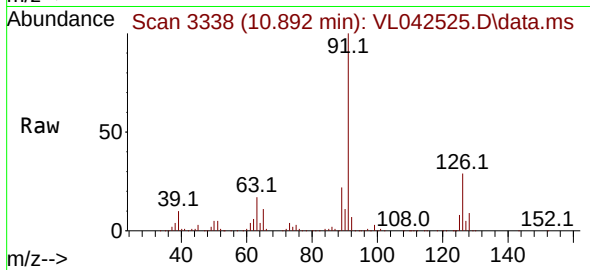
Tgt Ion: 91 Resp: 640472
Ion Ratio Lower Upper
91 100
92 54.6 43.7 65.5
134 23.6 18.9 28.3





#71
2-Chlorotoluene
Concen: 11.047 ppbv
RT: 10.892 min Scan# 3338
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

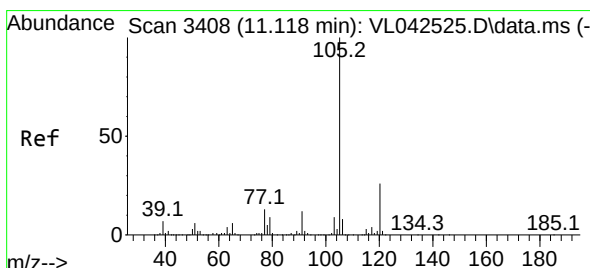
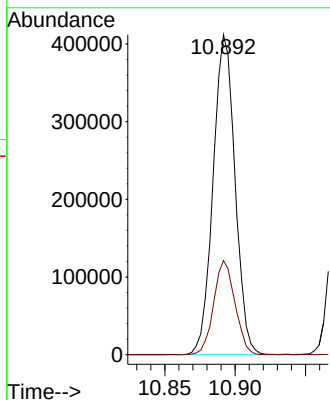
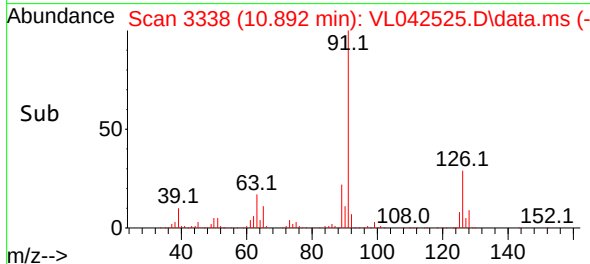
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



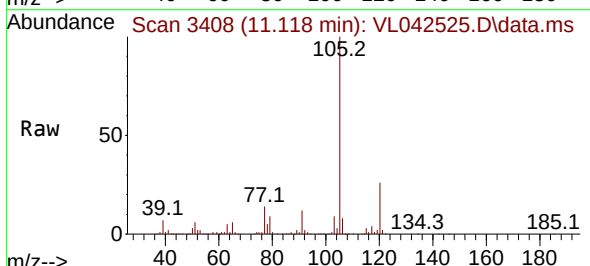
Tgt Ion: 91 Resp: 44646
Ion Ratio Lower Upper
91 100
126 28.5 11.4 45.6

Manual Integrations
APPROVED

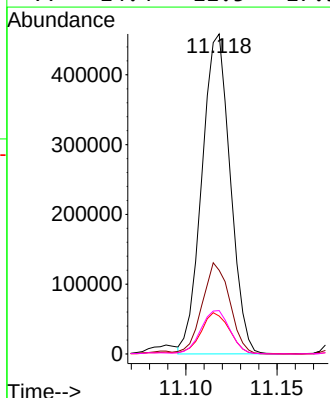
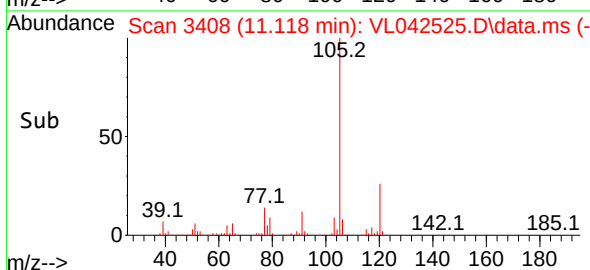
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

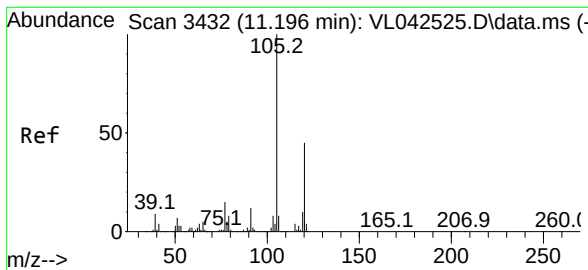


#72
4-Ethyltoluene
Concen: 11.285 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



Tgt Ion:105 Resp: 496120
Ion Ratio Lower Upper
105 100
120 28.6 22.9 34.3
91 13.6 10.9 16.3
77 14.4 11.5 17.3





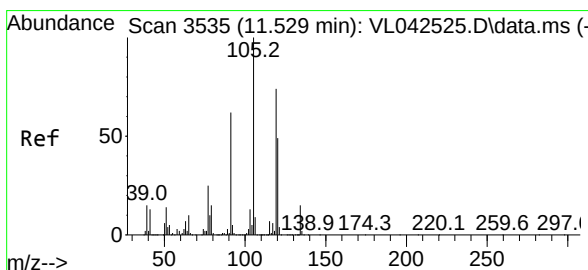
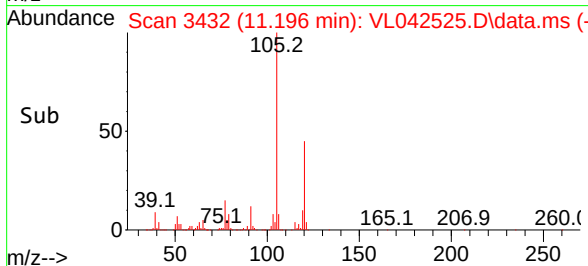
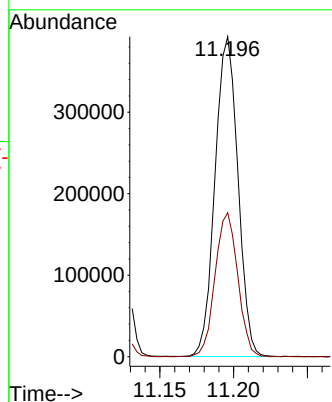
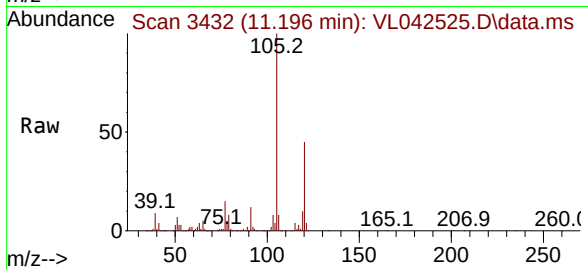
#73
 1,3,5-Trimethylbenzene
 Concen: 11.076 ppbv
 RT: 11.196 min Scan# 3432
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion:105 Resp: 424133
 Ion Ratio Lower Upper
 105 100
 120 45.0 36.0 54.0

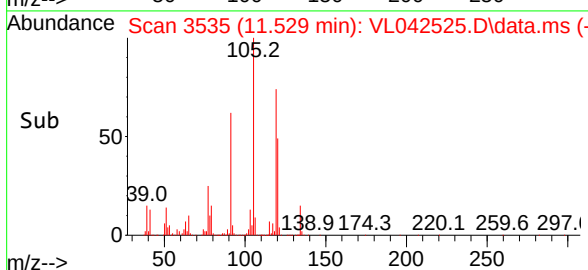
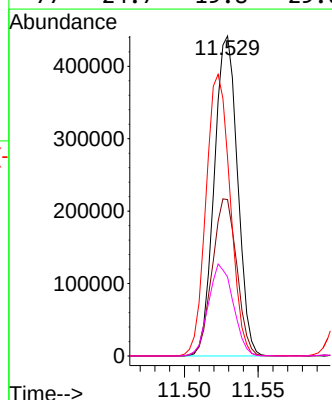
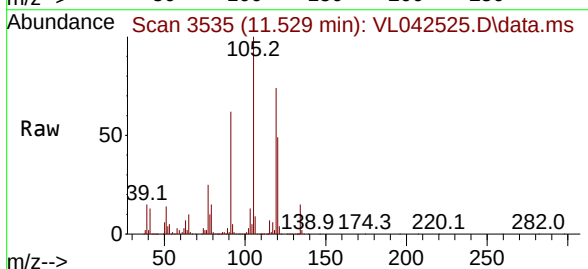
Manual Integrations
 APPROVED

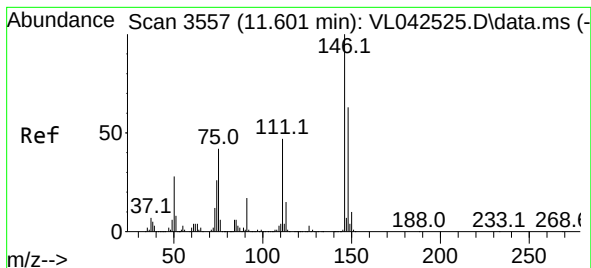
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#74
 1,2,4-Trimethylbenzene
 Concen: 10.313 ppbv
 RT: 11.529 min Scan# 3535
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

Tgt Ion:105 Resp: 485862
 Ion Ratio Lower Upper
 105 100
 120 48.8 39.0 58.6
 91 61.8 49.4 74.2
 77 24.7 19.8 29.6





#75

1,3-Dichlorobenzene

Concen: 9.681 ppbv

RT: 11.601 min Scan# 3557

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

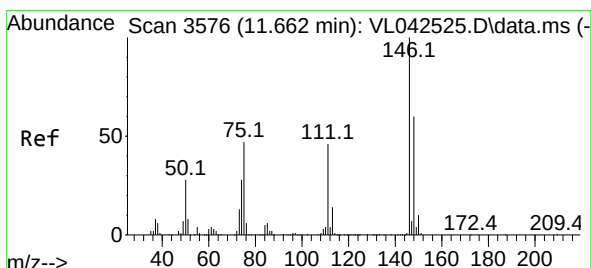
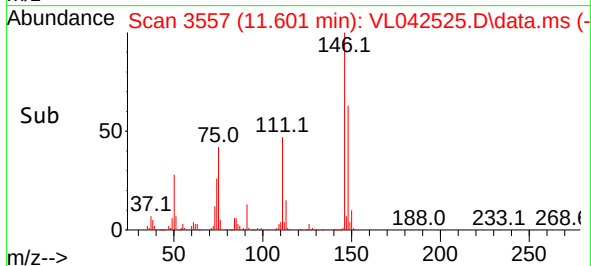
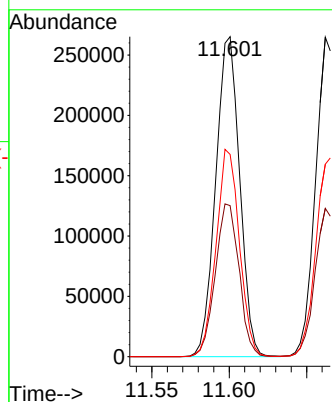
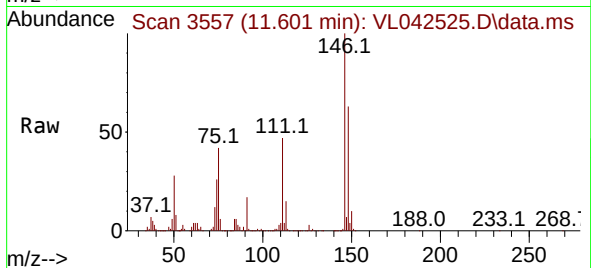
VSTDICCC010

Tgt Ion:	146	Resp:	285664
Ion Ratio	Lower	Upper	
146	100		
111	47.3	23.6	71.0
148	63.2	31.6	94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#76

1,4-Dichlorobenzene

Concen: 9.936 ppbv

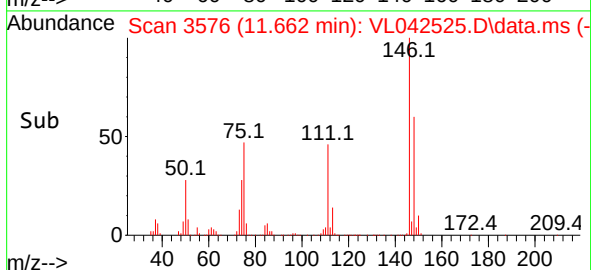
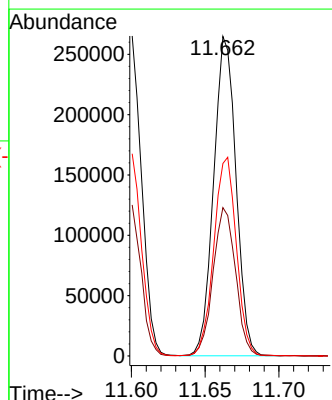
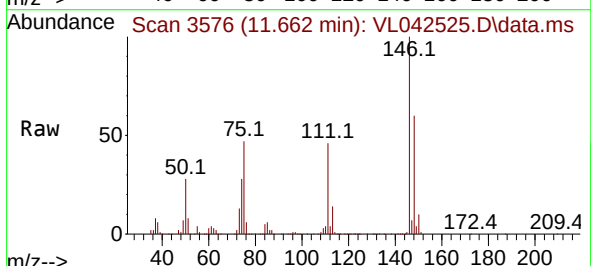
RT: 11.662 min Scan# 3576

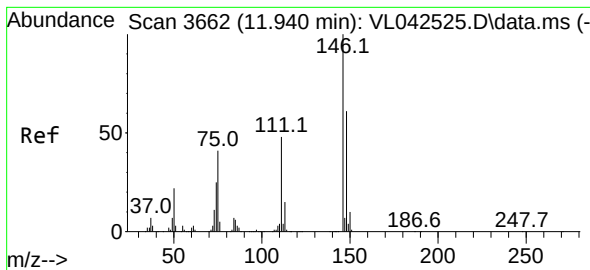
Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Tgt Ion:	146	Resp:	278935
Ion Ratio	Lower	Upper	
146	100		
111	46.9	23.4	70.3
148	63.1	31.6	94.7





#77

1,2-Dichlorobenzene

Concen: 8.976 ppbv

RT: 11.940 min Scan# 3662

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:146 Resp: 273570

Ion Ratio Lower Upper

146 100

111 49.8 24.9 74.8

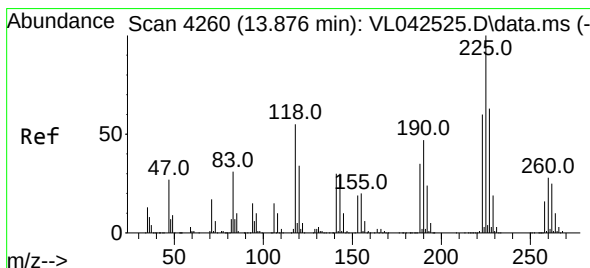
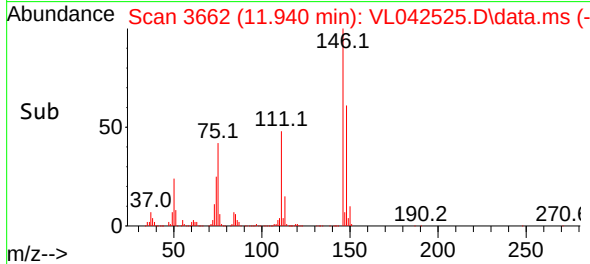
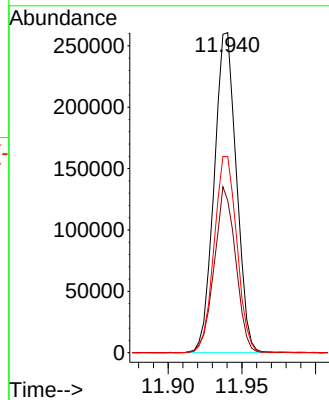
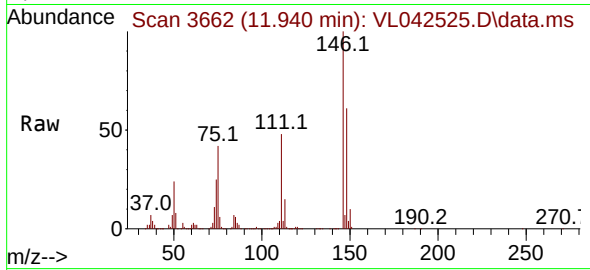
148 62.8 31.4 94.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#78

Hexachloro-1,3-Butadiene

Concen: 8.408 ppbv

RT: 13.876 min Scan# 4260

Delta R.T. 0.000 min

Lab File: VL042525.D

Acq: 12 May 2025 08:57

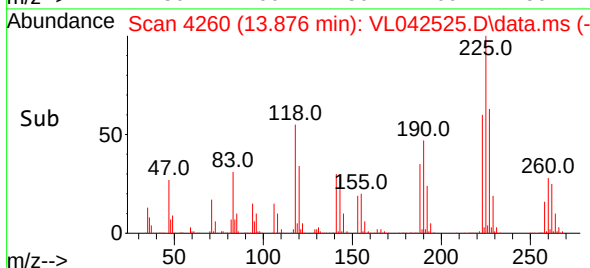
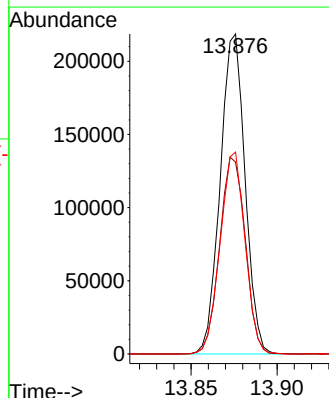
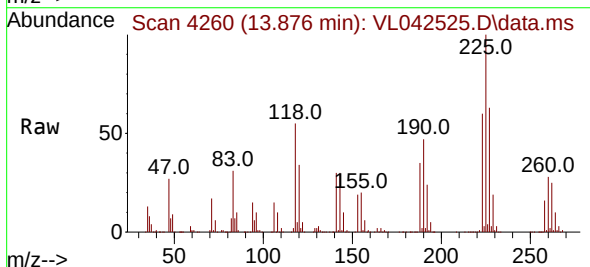
Tgt Ion:225 Resp: 219741

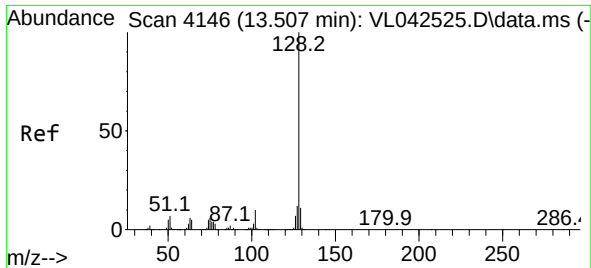
Ion Ratio Lower Upper

225 100

223 63.5 50.8 76.2

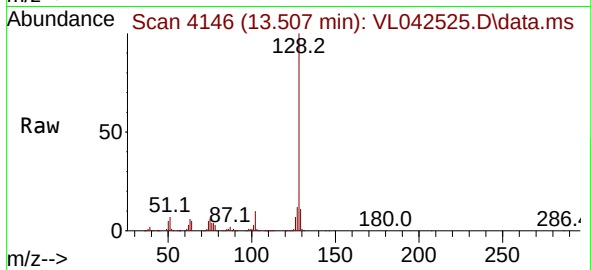
227 63.1 50.5 75.7





#79
Naphthalene
Concen: 12.661 ppbv
RT: 13.507 min Scan# 4146
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57

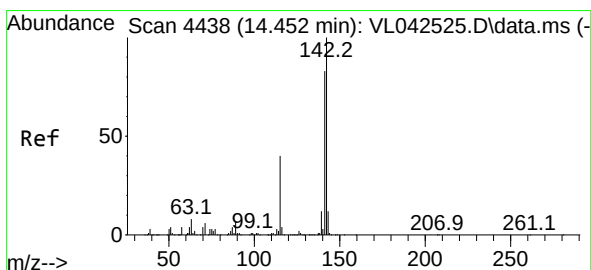
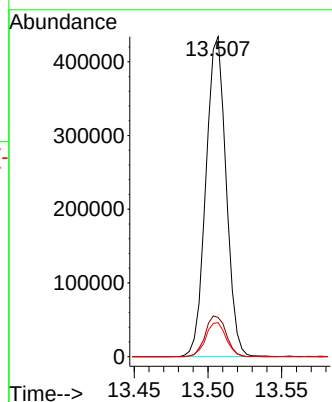
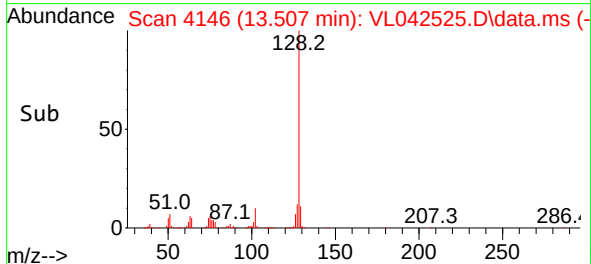
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



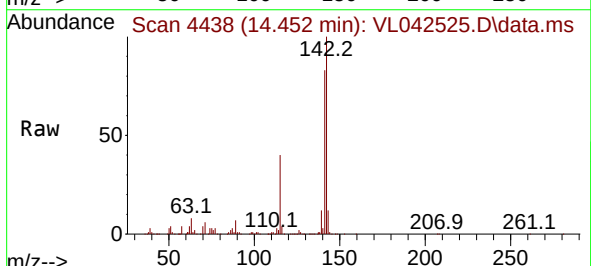
Tgt Ion:128 Resp: 41183
Ion Ratio Lower Upper
128 100
127 12.3 9.8 14.8
129 10.7 8.6 12.8

Manual Integrations
APPROVED

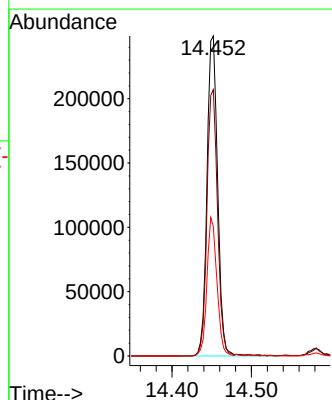
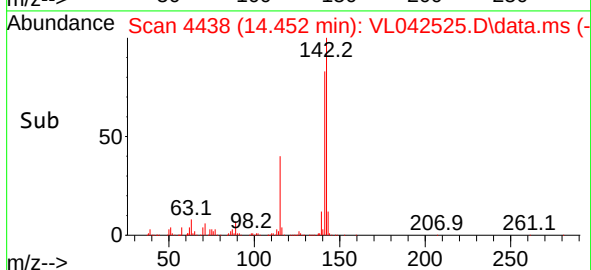
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

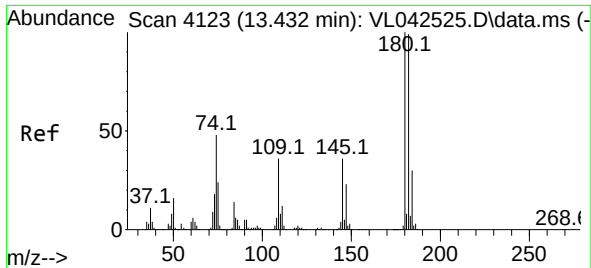


#80
Naphthalene,2-methyl-
Concen: 12.289 ppbv
RT: 14.452 min Scan# 4438
Delta R.T. 0.000 min
Lab File: VL042525.D
Acq: 12 May 2025 08:57



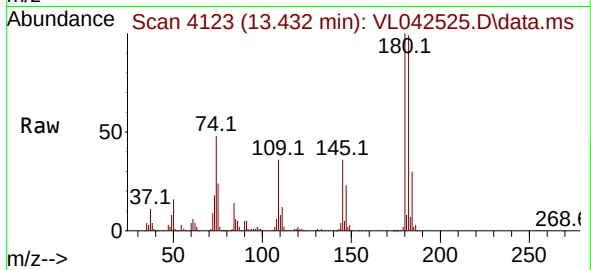
Tgt Ion:142 Resp: 232576
Ion Ratio Lower Upper
142 100
141 83.5 66.8 100.2
115 40.9 33.0 49.6





#81
 1,2,4-Trichlorobenzene
 Concen: 10.955 ppbv
 RT: 13.432 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042525.D
 Acq: 12 May 2025 08:57

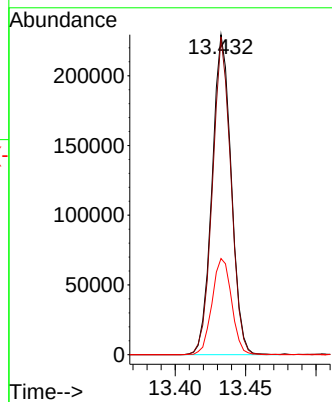
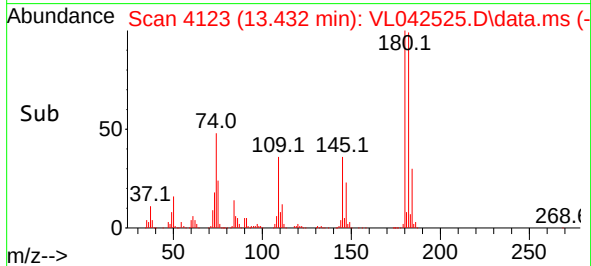
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



Tgt Ion:180 Resp: 21756
 Ion Ratio Lower Upper
 180 100
 182 95.9 76.6 114.8
 184 30.7 24.6 36.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042527.D
 Acq On : 12 May 2025 10:07
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

Quant Time: May 12 23:47:06 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

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

QLast Update : Mon May 12 23:42:45 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	109943	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	312995	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	265845	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 231970 10.029 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.492	85	17243	0.966	ppbv	93
3) Chlorodifluoromethane	1.470	51	18021	0.990	ppbv	99
4) Chloromethane	1.528	50	7338	1.007	ppbv	89
5) Vinyl Chloride	1.576	62	6995	0.938	ppbv	100
6) Bromomethane	1.664	94	3506	0.990	ppbv	95
7) Chloroethane	1.699	64	3333	1.136	ppbv #	86
8) Dichlorotetrafluoroethane	1.551	85	15232	0.992	ppbv	94
9) Propene	1.479	41	4688	1.186	ppbv #	1
10) Heptane	4.968	43	12679m	0.842	ppbv	
11) Trichlorofluoromethane	1.871	101	16718	0.974	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.133	101	13472	0.977	ppbv	100
13) Ethanol	1.719	45	1228m	1.138	ppbv	
14) Bromoethene	1.777	108	5081	1.010	ppbv #	98
15) Acetone	1.832	43	18790	1.070	ppbv	95
16) 1,3-Butadiene	1.606	39	7620	0.965	ppbv	100
17) tert-Butyl alcohol	2.039	59	16785	1.034	ppbv	95
18) 1,1-Dichloroethene	2.030	96	5957	0.985	ppbv	89
19) Isopropyl Alcohol	1.884	45	9238	0.968	ppbv #	95
20) Methylene Chloride	2.055	84	6343	1.037	ppbv	95
21) Allyl Chloride	2.091	41	12028	1.034	ppbv	100
22) trans-1,2-Dichloroethene	2.334	96	7150	1.011	ppbv	95
23) Vinyl Acetate	2.457	43	16789	0.913	ppbv #	90
24) 1,1-Dichloroethane	2.402	63	13728	1.003	ppbv	97
25) Ethyl Acetate	2.832	43	28045	0.909	ppbv	98
26) Hexane	2.819	57	11972	0.945	ppbv	95
27) Carbon Disulfide	2.146	76	16011	0.979	ppbv #	1
28) Methyl tert-Butyl Ether	2.437	73	6789	0.965	ppbv	93
29) Chloroform	2.842	83	26959	1.026	ppbv	87
30) Cyclohexane	3.845	84	8805m	0.847	ppbv	
31) cis-1,2-Dichloroethene	2.716	61	13267	0.928	ppbv	90
32) 1,1,1-Trichloroethane	3.360	97	25297	0.955	ppbv	96
34) 2-Butanone	2.554	43	20174	0.978	ppbv	100
35) Carbon Tetrachloride	3.755	117	27182	0.966	ppbv	96
36) Benzene	3.648	78	26465	0.954	ppbv	95
37) 1,2-Dichloroethane	3.208	62	20039	1.013	ppbv	98
38) Trichloroethene	4.541	130	11026m	0.930	ppbv	
39) 1,2-Dichloropropane	4.308	63	10363m	1.004	ppbv	
40) 1,4-Dioxane	4.596	88	3834m	0.931	ppbv	
41) Tetrahydrofuran	3.056	42	7944	0.893	ppbv	97
42) Bromodichloromethane	4.480	83	25549m	0.969	ppbv	
43) Methyl Methacrylate	4.875	69	8149m	0.880	ppbv	
44) 2,2,4-Trimethylpentane	4.632	57	41666m	0.956	ppbv	
45) t-1,3-Dichloropropene	6.399	75	10716m	0.906	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042527.D
 Acq On : 12 May 2025 10:07
 Operator : SY/MD
 Sample : VSTDIC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

Quant Time: May 12 23:47:06 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

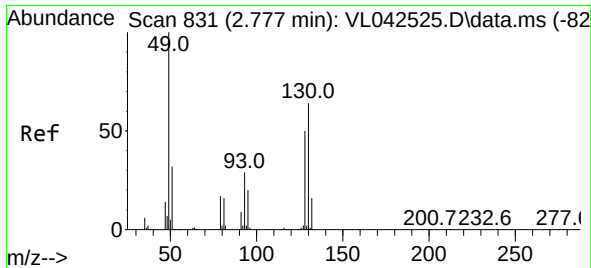
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Mon May 12 23:42:45 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.580	75	12616m	0.884	ppbv	
47) 1,1,2-Trichloroethane	6.580	97	11636m	0.957	ppbv	
48) Dibromochloromethane	7.377	129	19761	0.973	ppbv	97
49) Bromoform	9.474	173	15745	0.944	ppbv	98
50) 4-Methyl-2-Pentanone	5.752	43	21720m	0.898	ppbv	
51) 2-Hexanone	7.428	43	14649m	0.815	ppbv	
52) Tetrachloroethene	8.218	164	9912m	0.928	ppbv	
53) Toluene	6.923	91	22892m	0.841	ppbv	
54) 1,2-Dibromoethane	7.642	107	16971m	0.955	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.914	131	16650	1.010	ppbv #	1
57) Chlorobenzene	8.914	112	25980	0.973	ppbv	94
58) Ethyl Benzene	9.348	91	28807m	0.795	ppbv	
59) m/p-Xylene	9.542	91	54644m	1.695	ppbv	
60) o-Xylene	9.956	91	26834	0.854	ppbv	95
61) Styrene	9.862	104	9259	0.800	ppbv	97
62) Isopropylbenzene	10.532	105	41504	0.877	ppbv	95
63) 1,1,2,2-Tetrachloroethane	9.956	83	23419	0.930	ppbv	99
64) n-propylbenzene	10.985	120	10433	0.870	ppbv	93
65) tert-Butylbenzene	11.526	119	38176	0.878	ppbv	96
66) Benzyl Chloride	11.607	91	4826	0.839	ppbv #	93
67) sec-Butylbenzene	11.762	105	56638	0.909	ppbv	97
69) p-Isopropyltoluene	11.921	119	44406	0.867	ppbv	96
70) n-Butylbenzene	12.277	91	41878	0.827	ppbv	97
71) 2-Chlorotoluene	10.898	91	30070	0.839	ppbv	98
72) 4-Ethyltoluene	11.121	105	33030	0.847	ppbv #	97
73) 1,3,5-Trimethylbenzene	11.199	105	29442	0.867	ppbv	100
74) 1,2,4-Trimethylbenzene	11.532	105	40544	0.970	ppbv	91
75) 1,3-Dichlorobenzene	11.600	146	26018	0.994	ppbv	97
76) 1,4-Dichlorobenzene	11.665	146	23564	0.947	ppbv	98
77) 1,2-Dichlorobenzene	11.940	146	26975	0.998	ppbv	98
78) Hexachloro-1,3-Butadiene	13.879	225	23824	1.028	ppbv	98
79) Naphthalene	13.510	128	24409	0.846	ppbv #	95
80) Naphthalene,2-methyl-	14.455	142	9088	0.541	ppbv	97
81) 1,2,4-Trichlorobenzene	13.436	180	14600	0.829	ppbv	96

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



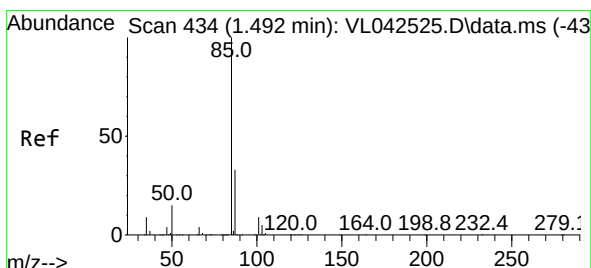
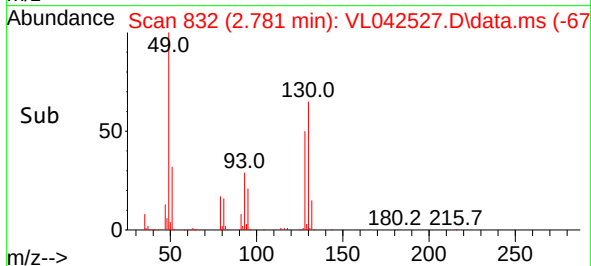
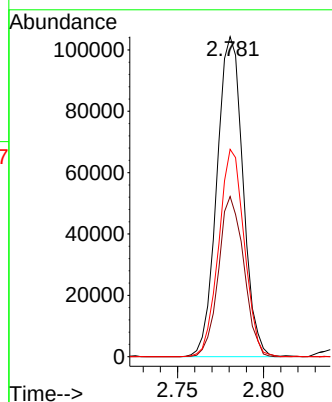
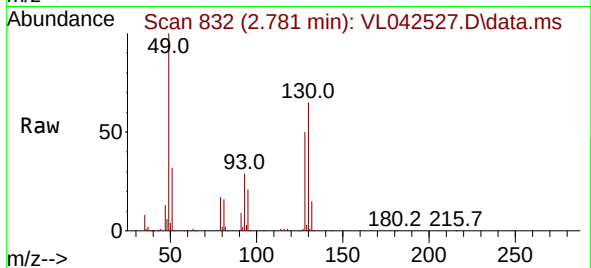
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 49 Resp: 10994
Ion Ratio Lower Upper
49 100
128 48.5 24.9 74.6
130 63.6 32.5 97.5

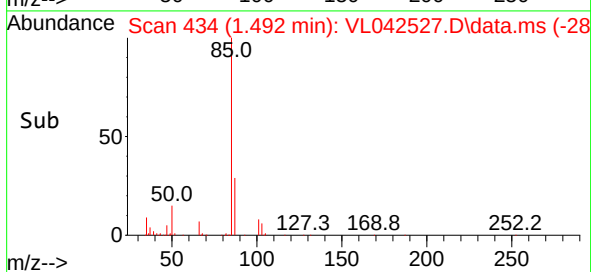
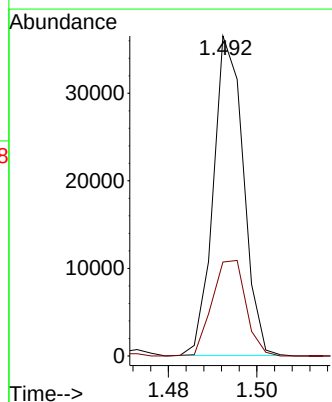
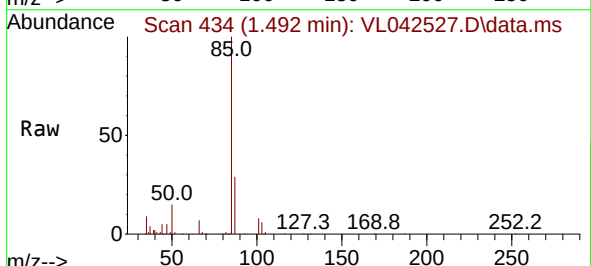
Manual Integrations
APPROVED

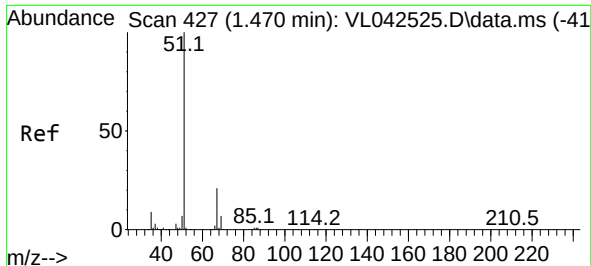
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#2
Dichlorodifluoromethane
Concen: 0.966 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.000 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Tgt Ion: 85 Resp: 17243
Ion Ratio Lower Upper
85 100
87 29.4 26.8 40.2





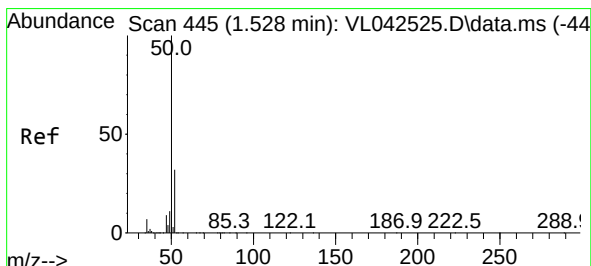
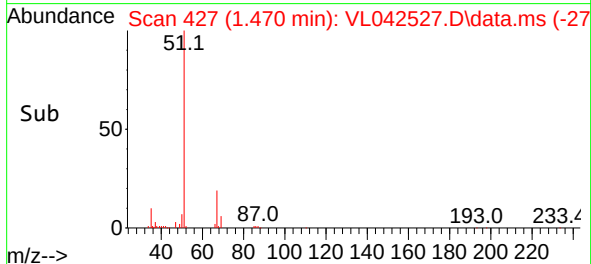
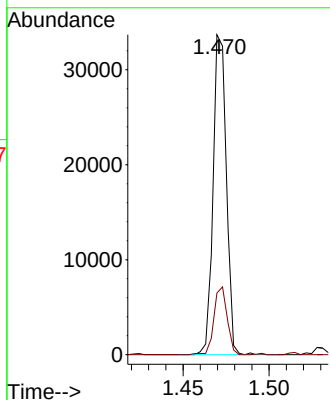
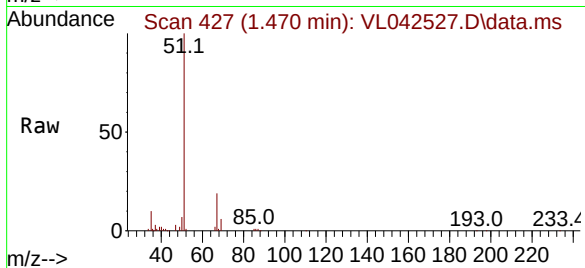
#3
Chlorodifluoromethane
Concen: 0.990 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 51 Resp: 1802
Ion Ratio Lower Upper
51 100
67 21.2 17.4 26.0

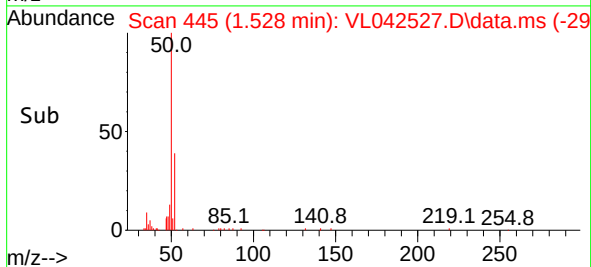
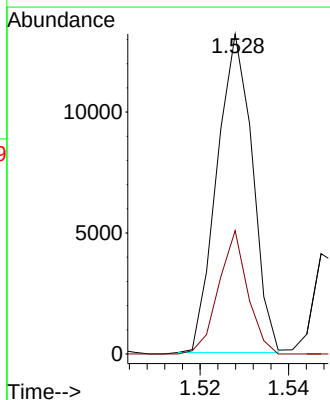
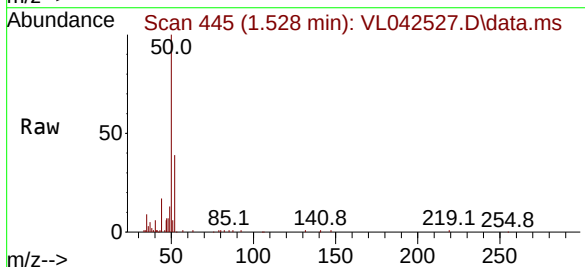
Manual Integrations
APPROVED

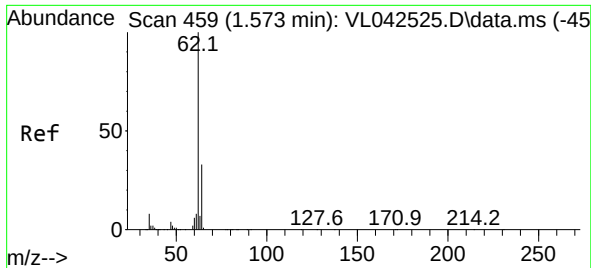
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#4
Chloromethane
Concen: 1.007 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.000 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Tgt Ion: 50 Resp: 7338
Ion Ratio Lower Upper
50 100
52 38.7 25.9 38.9





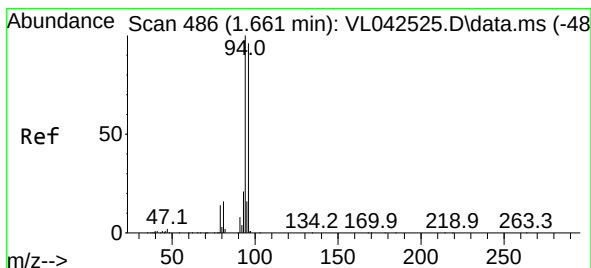
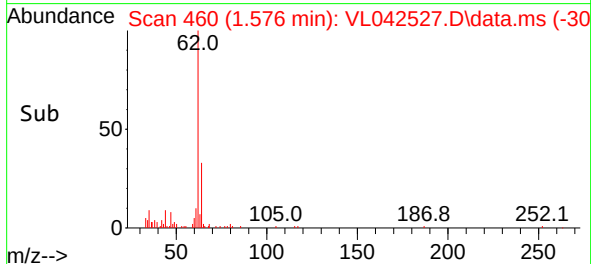
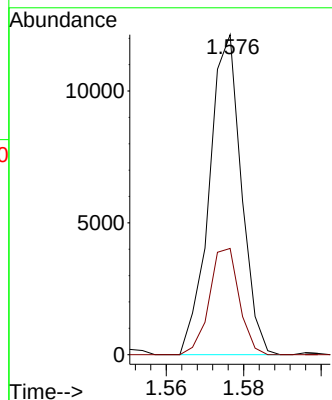
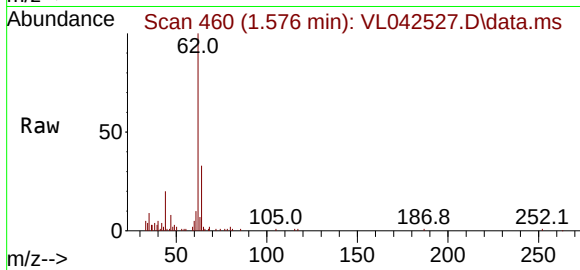
#5
 Vinyl Chloride
 Concen: 0.938 ppbv
 RT: 1.576 min Scan# 459
 Delta R.T. 0.003 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion: 62 Resp: 6998
 Ion Ratio Lower Upper
 62 100
 64 33.2 26.5 39.7

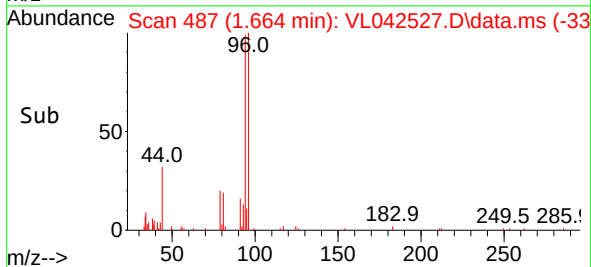
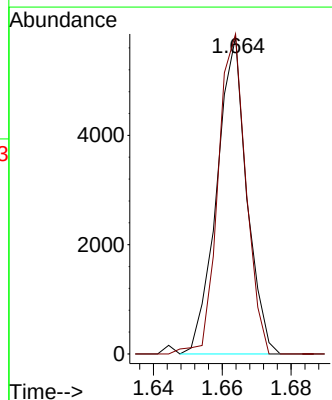
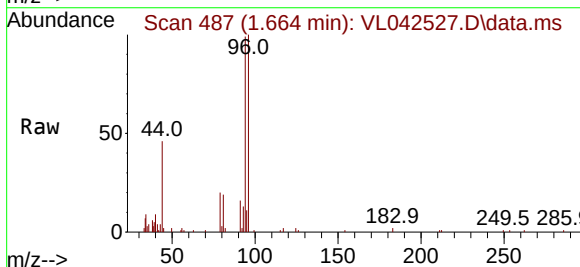
Manual Integrations
 APPROVED

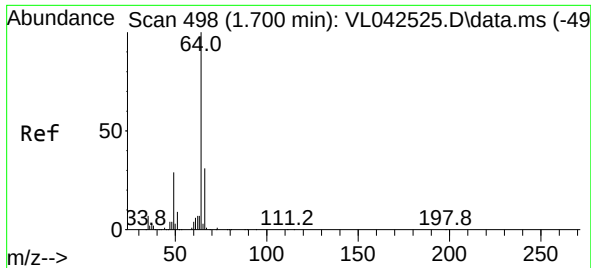
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#6
 Bromomethane
 Concen: 0.990 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. 0.003 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

Tgt Ion: 94 Resp: 3506
 Ion Ratio Lower Upper
 94 100
 96 100.9 76.9 115.3





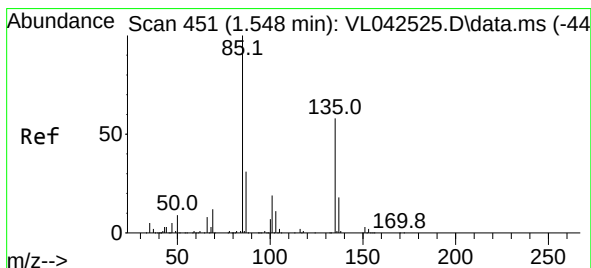
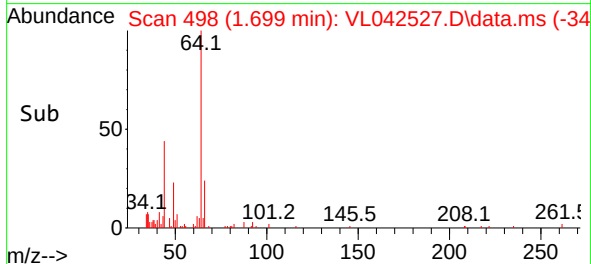
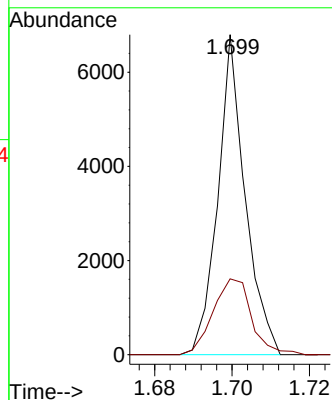
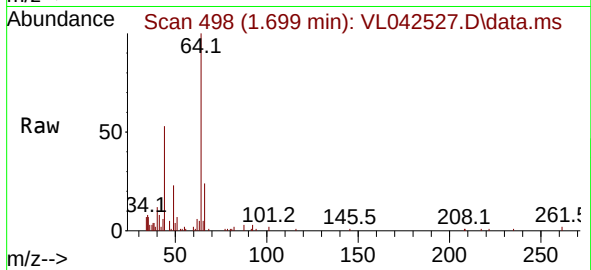
#7
Chloroethane
Concen: 1.136 ppbv
RT: 1.699 min Scan# 498
Delta R.T. -0.000 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 64 Resp: 333
Ion Ratio Lower Upper
64 100
66 23.7 25.1 37.7

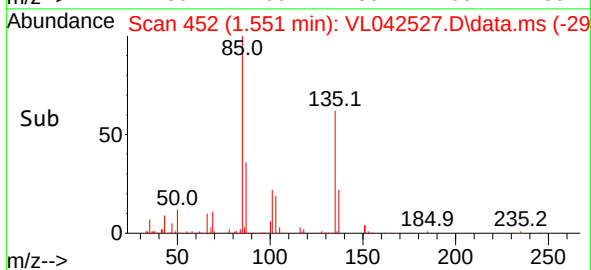
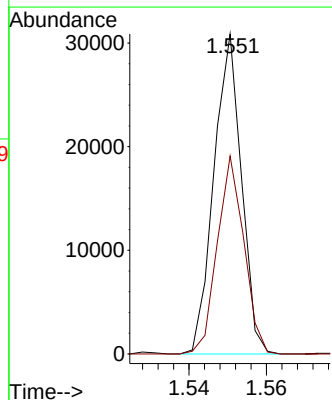
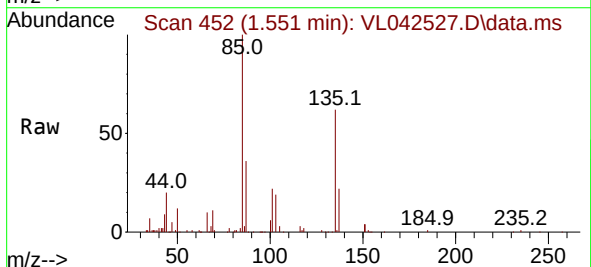
Manual Integrations
APPROVED

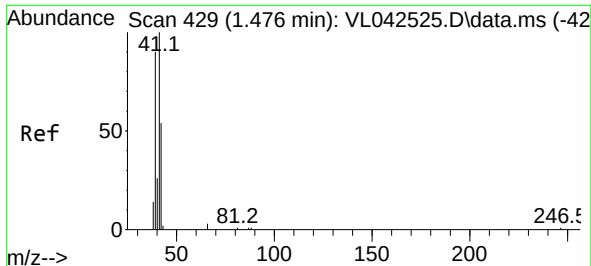
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#8
Dichlorotetrafluoroethane
Concen: 0.992 ppbv
RT: 1.551 min Scan# 452
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Tgt Ion: 85 Resp: 15232
Ion Ratio Lower Upper
85 100
135 60.0 51.8 77.8





#9

Propene

Concen: 1.186 ppbv

RT: 1.479 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 41 Resp: 468

Ion Ratio Lower Upper

41 100

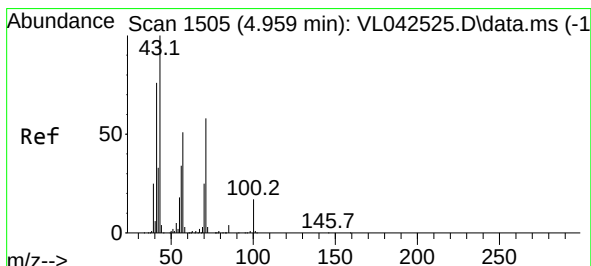
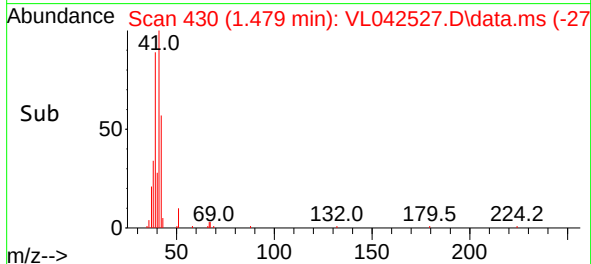
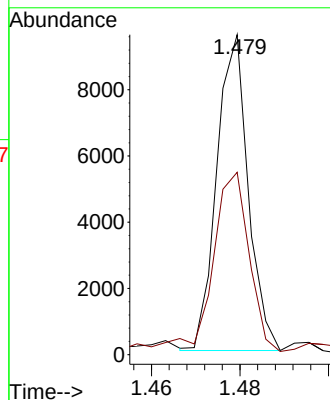
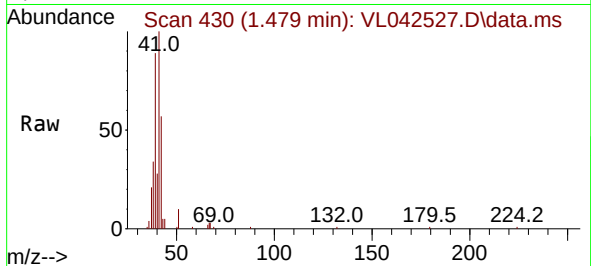
42 78.8 4.1 6.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#10

Heptane

Concen: 0.842 ppbv m

RT: 4.968 min Scan# 1508

Delta R.T. 0.010 min

Lab File: VL042527.D

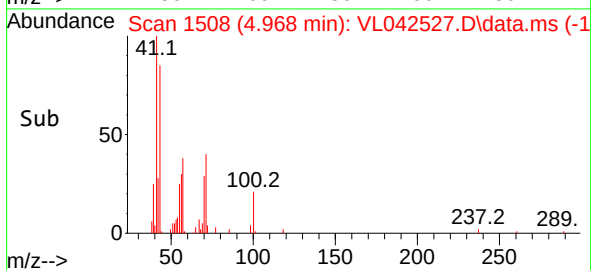
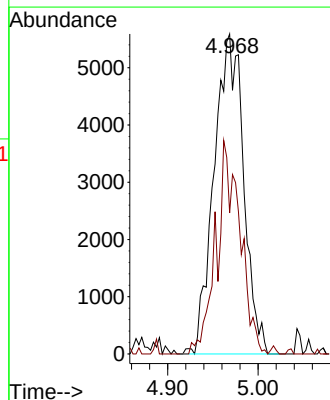
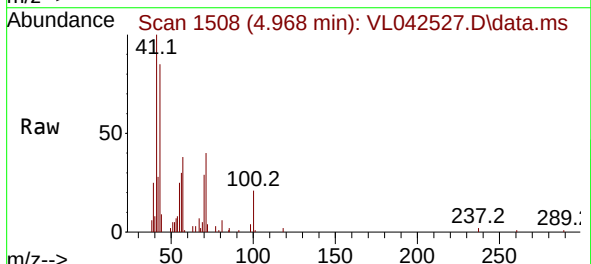
Acq: 12 May 2025 10:07

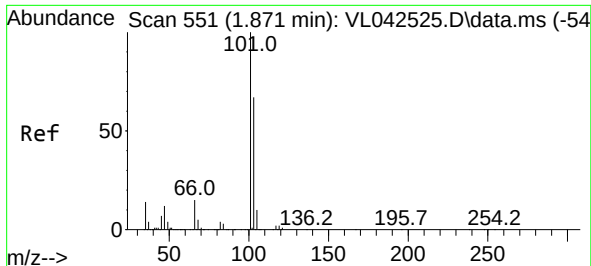
Tgt Ion: 43 Resp: 12679

Ion Ratio Lower Upper

43 100

57 54.4 42.1 63.1





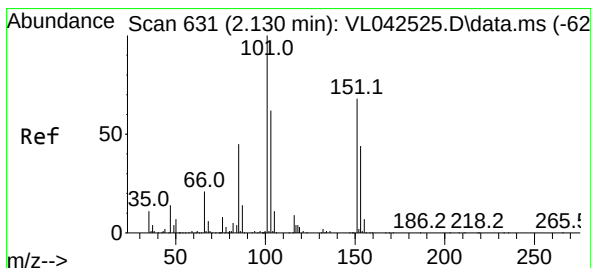
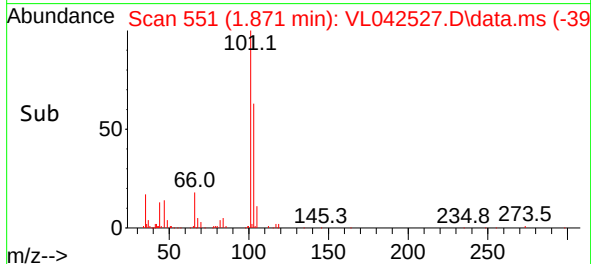
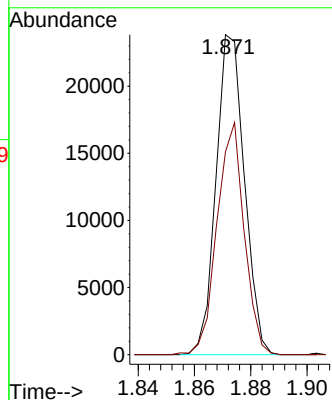
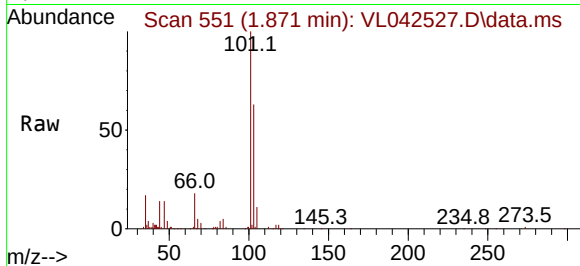
#11
 Trichlorofluoromethane
 Concen: 0.974 ppbv
 RT: 1.871 min Scan# 551
 Delta R.T. -0.000 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion:101 Resp: 16718
 Ion Ratio Lower Upper
 101 100
 103 63.4 53.8 80.6

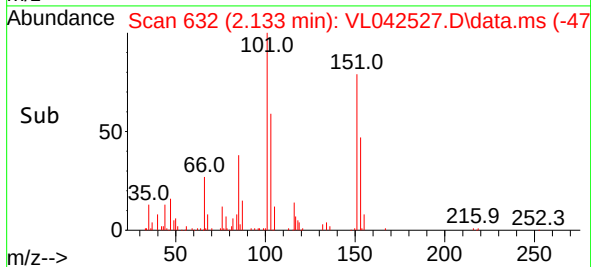
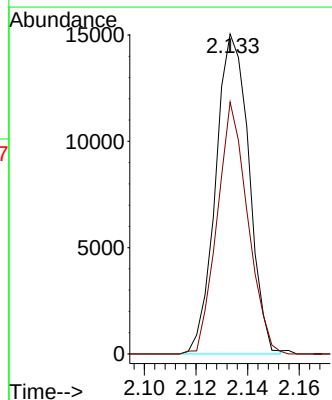
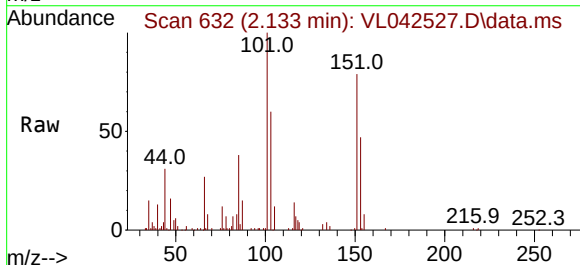
Manual Integrations
 APPROVED

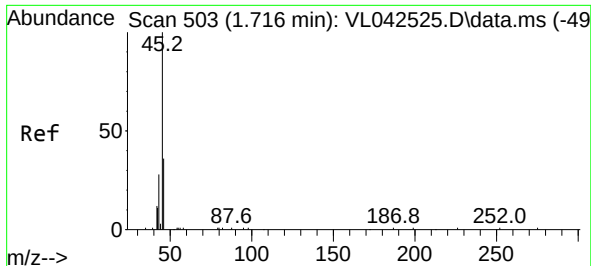
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.977 ppbv
 RT: 2.133 min Scan# 632
 Delta R.T. 0.003 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

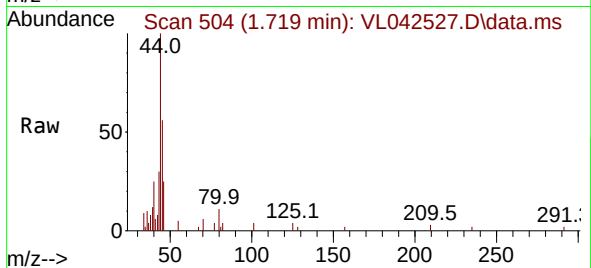
Tgt Ion:101 Resp: 13472
 Ion Ratio Lower Upper
 101 100
 151 72.4 57.8 86.8





#13
Ethanol
Concen: 1.138 ppbv m
RT: 1.719 min Scan# 503
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

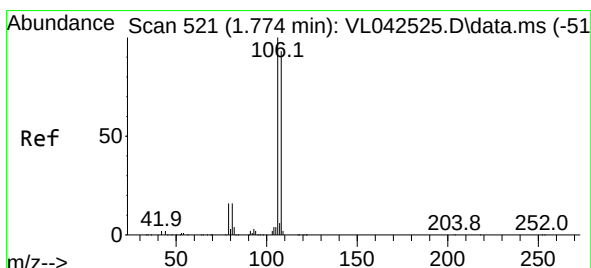
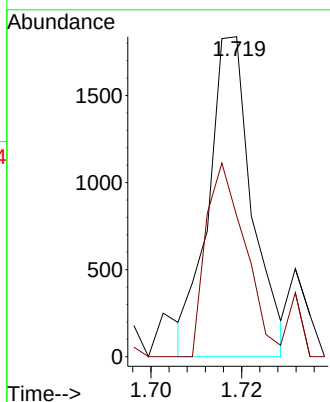
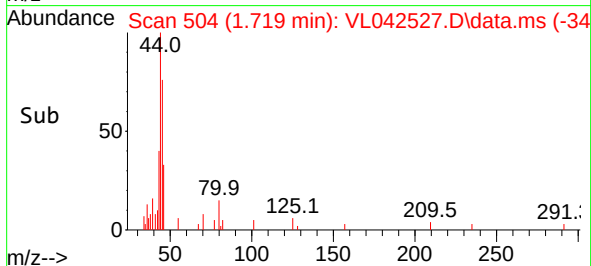
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 45 Resp: 1228
Ion Ratio Lower Upper
45 100
46 61.6 14.8 59.4

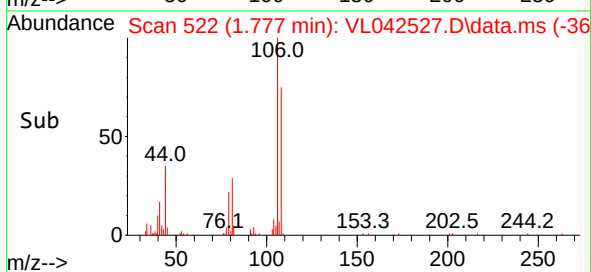
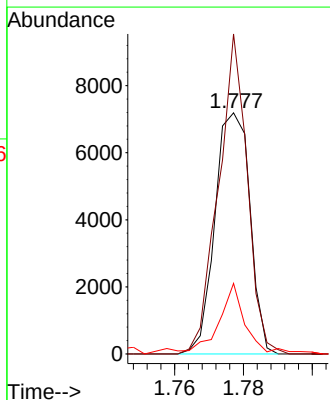
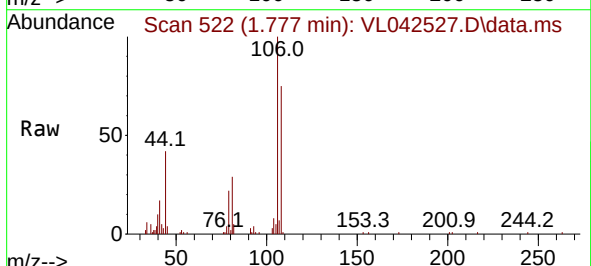
Manual Integrations
APPROVED

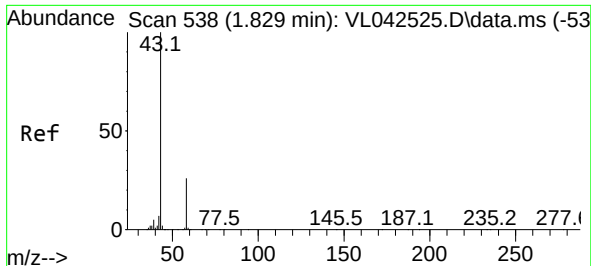
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#14
Bromoethene
Concen: 1.010 ppbv
RT: 1.777 min Scan# 522
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

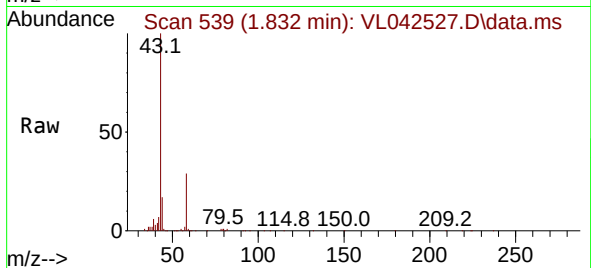
Tgt Ion:108 Resp: 5081
Ion Ratio Lower Upper
108 100
106 109.3 87.4 131.2
79 25.5 15.1 22.7





#15
Acetone
Concen: 1.070 ppbv
RT: 1.832 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

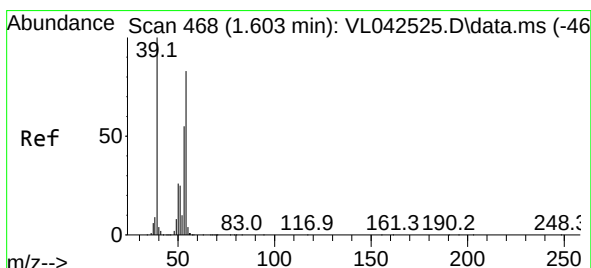
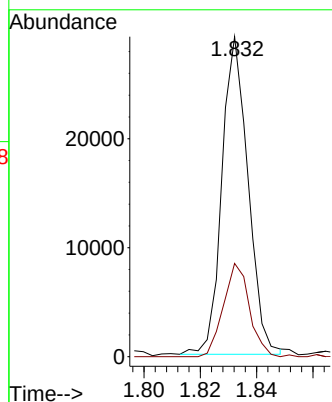
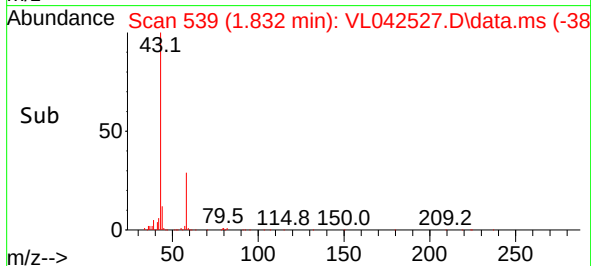
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



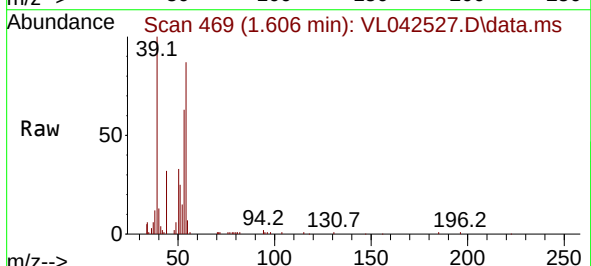
Tgt Ion: 43 Resp: 18790
Ion Ratio Lower Upper
43 100
58 29.3 21.3 31.9

Manual Integrations
APPROVED

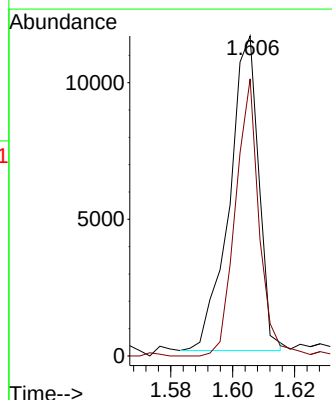
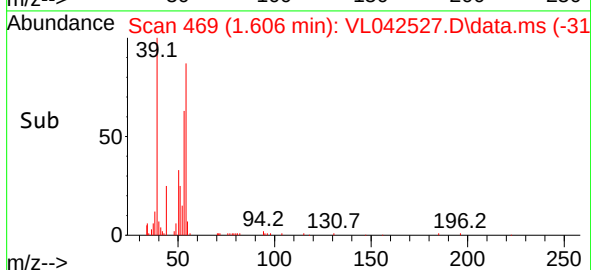
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

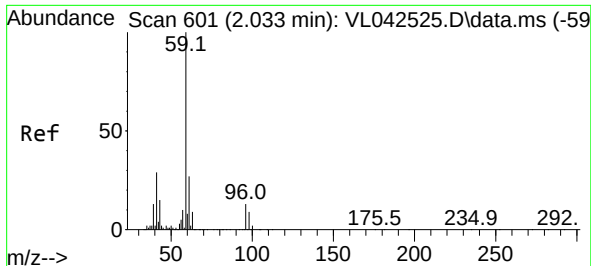


#16
1,3-Butadiene
Concen: 0.965 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07



Tgt Ion: 39 Resp: 7620
Ion Ratio Lower Upper
39 100
54 72.2 57.8 86.6





#17

tert-Butyl alcohol

Concen: 1.034 ppbv

RT: 2.039 min Scan# 601

Delta R.T. 0.006 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 59 Resp: 1678

Ion Ratio Lower Upper

59 100

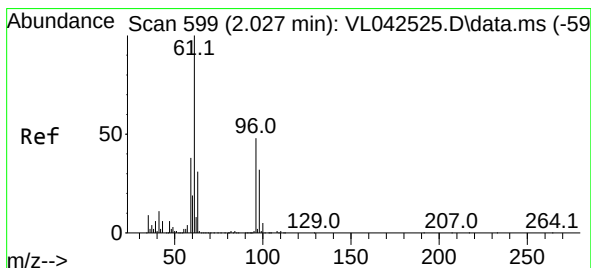
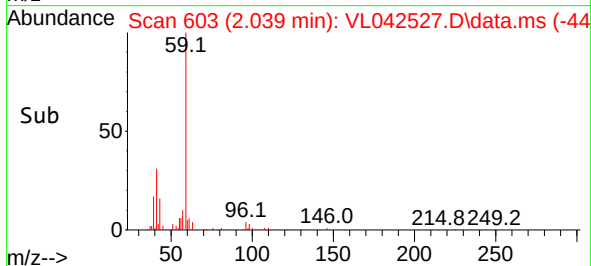
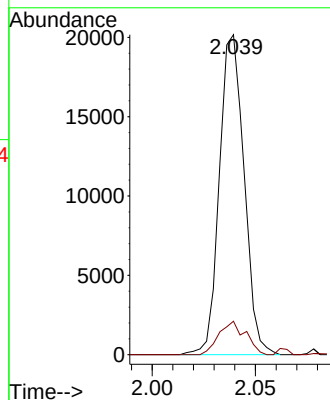
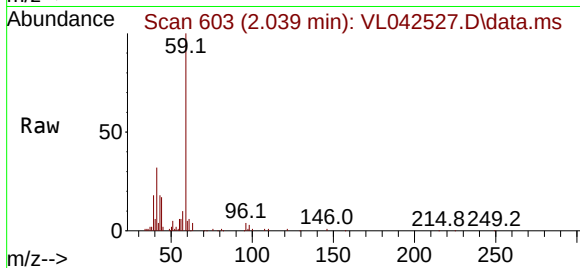
57 12.1 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#18

1,1-Dichloroethene

Concen: 0.985 ppbv

RT: 2.030 min Scan# 600

Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

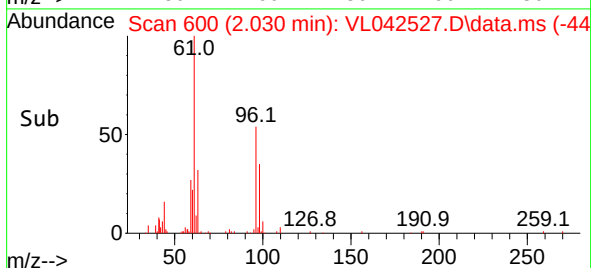
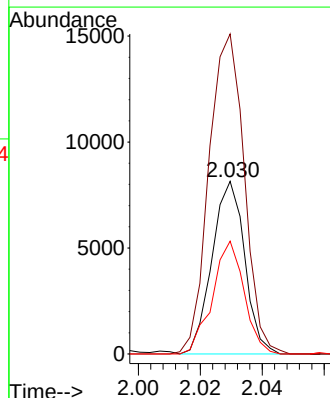
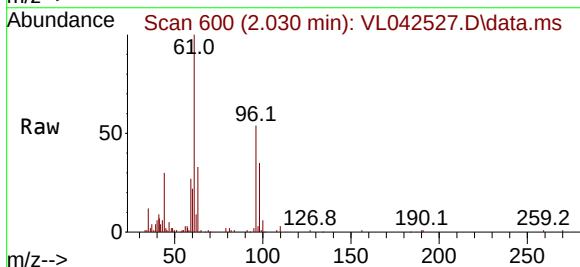
Tgt Ion: 96 Resp: 5957

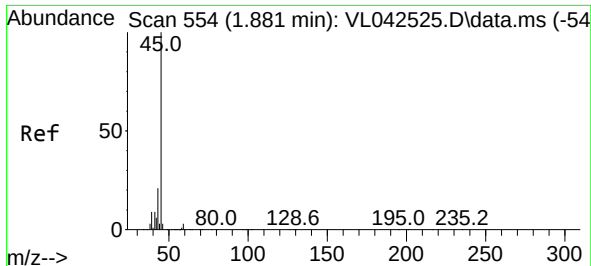
Ion Ratio Lower Upper

96 100

61 184.1 165.0 247.4

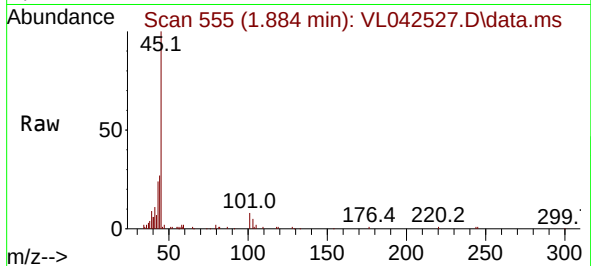
98 65.3 52.6 79.0





#19
Isopropyl Alcohol
Concen: 0.968 ppbv
RT: 1.884 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

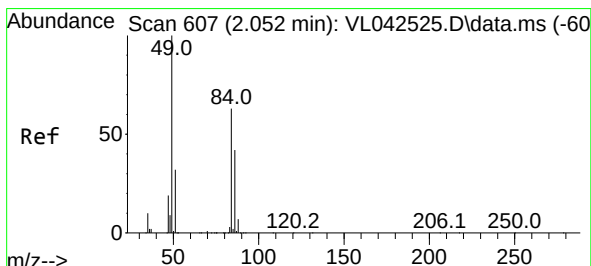
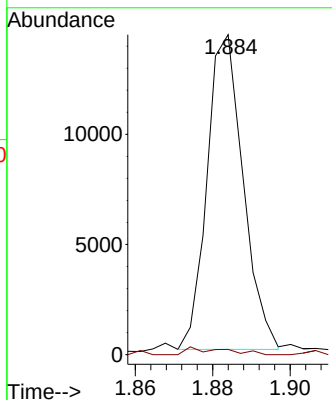
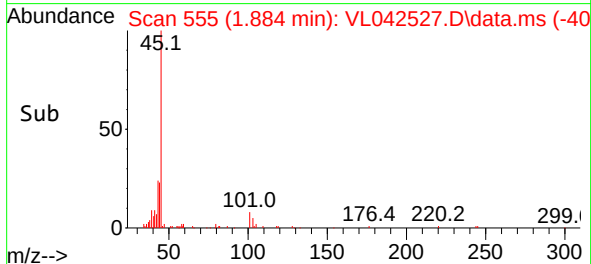
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



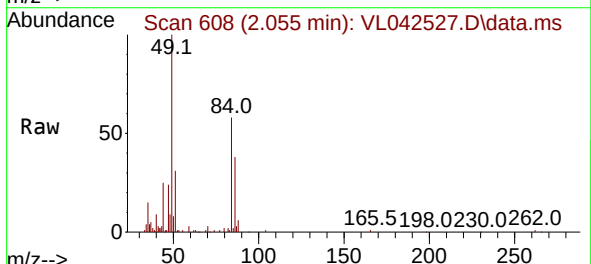
Tgt Ion: 45 Resp: 9238
Ion Ratio Lower Upper
45 100
58 0.0 1.5 2.3

Manual Integrations
APPROVED

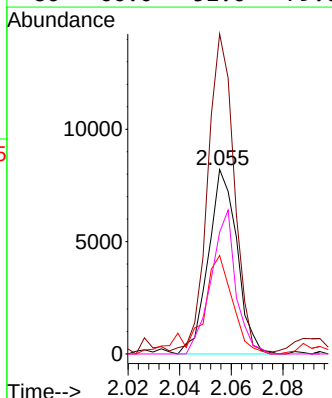
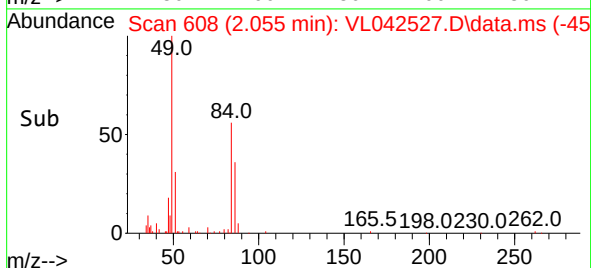
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

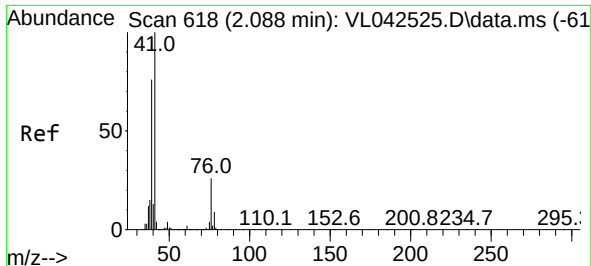


#20
Methylene Chloride
Concen: 1.037 ppbv
RT: 2.055 min Scan# 608
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07



Tgt Ion: 84 Resp: 6343
Ion Ratio Lower Upper
84 100
49 171.7 128.2 192.4
51 52.3 41.7 62.5
86 66.0 52.6 79.0





#21

Allyl Chloride

Concen: 1.034 ppbv

RT: 2.091 min Scan# 618

Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Instrument :

MSVOA_L

ClientSampleId :

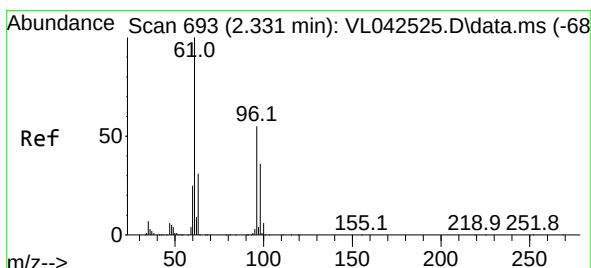
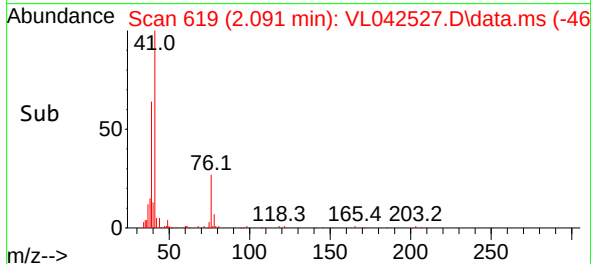
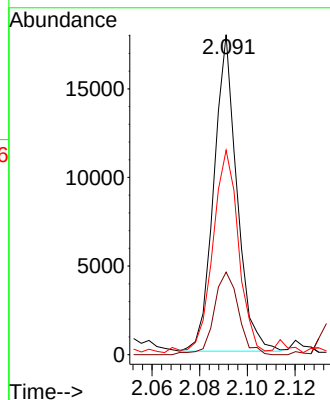
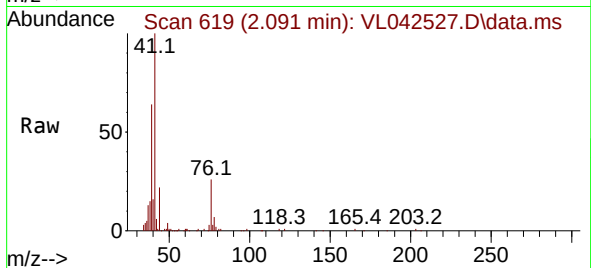
VSTDIC001

Tgt Ion:	41	Resp:	12028
Ion Ratio	Lower	Upper	
41	100		
76	27.5	22.0	33.0
39	74.6	59.5	89.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#22

trans-1,2-Dichloroethene

Concen: 1.011 ppbv

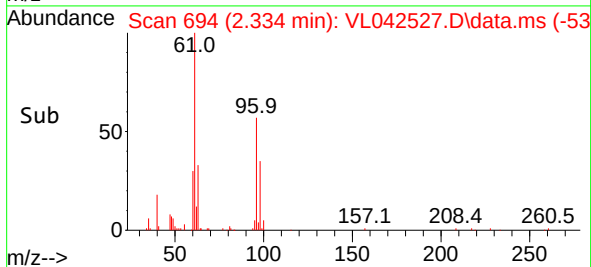
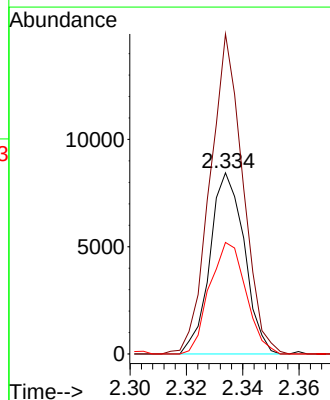
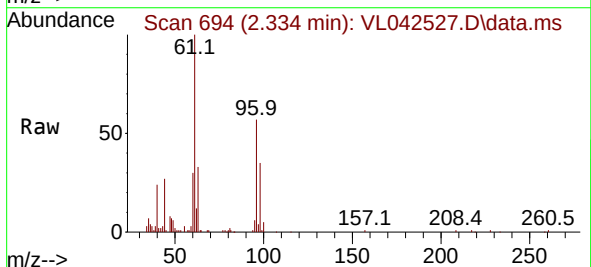
RT: 2.334 min Scan# 694

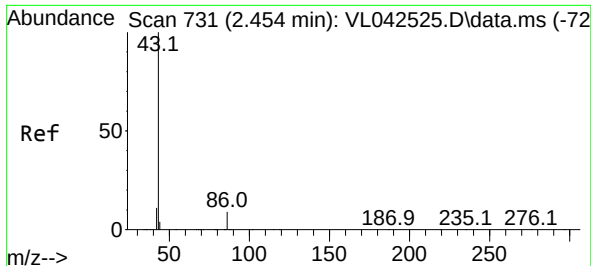
Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Tgt Ion:	96	Resp:	7150
Ion Ratio	Lower	Upper	
96	100		
61	175.3	145.9	218.9
98	61.6	52.2	78.4





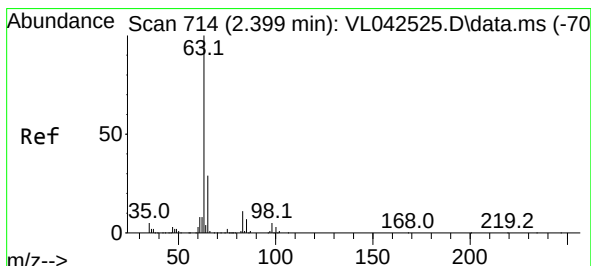
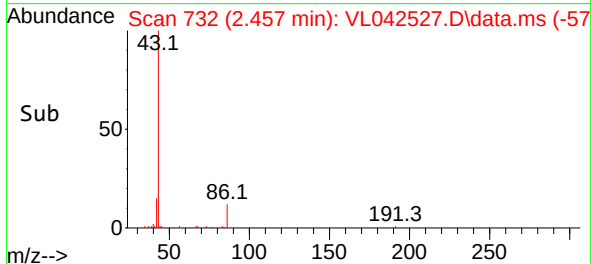
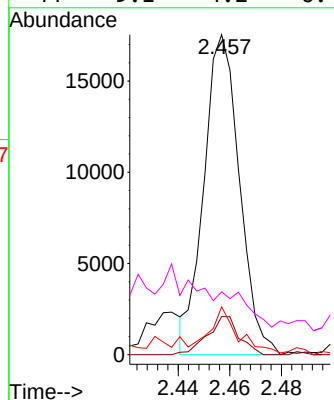
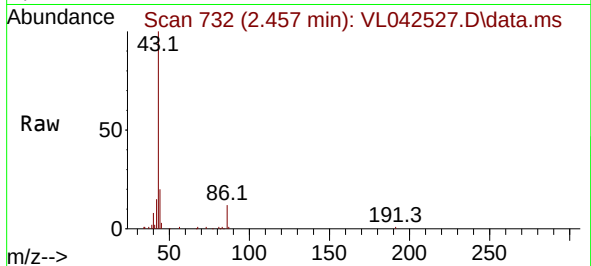
#23
 Vinyl Acetate
 Concen: 0.913 ppbv
 RT: 2.457 min Scan# 715
 Delta R.T. 0.003 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

Tgt Ion: 43 Resp: 16789
 Ion Ratio Lower Upper
 43 100
 86 11.9 6.8 10.2
 42 14.4 8.8 13.2
 44 9.1 4.2 6.4

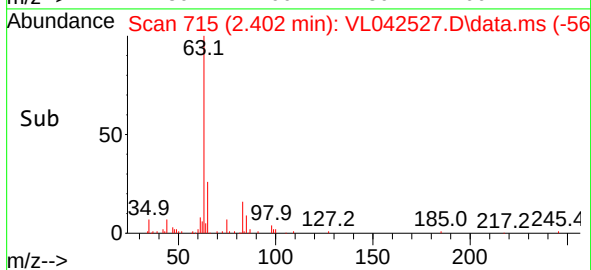
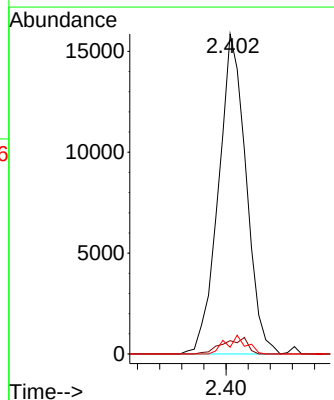
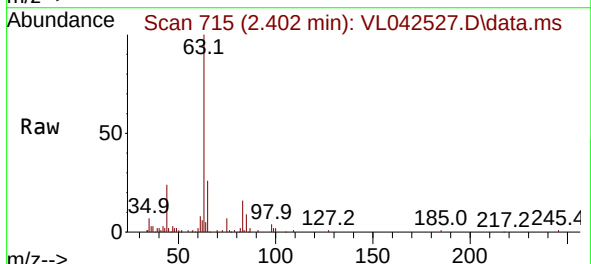
Manual Integrations
 APPROVED

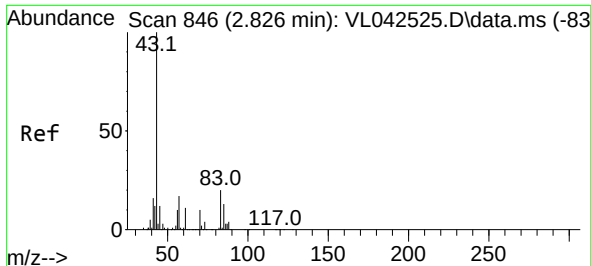
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#24
 1,1-Dichloroethane
 Concen: 1.003 ppbv
 RT: 2.402 min Scan# 715
 Delta R.T. 0.003 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

Tgt Ion: 63 Resp: 13728
 Ion Ratio Lower Upper
 63 100
 98 4.2 2.6 8.0
 100 2.1 1.4 4.2





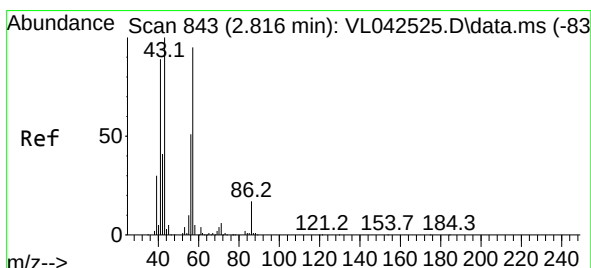
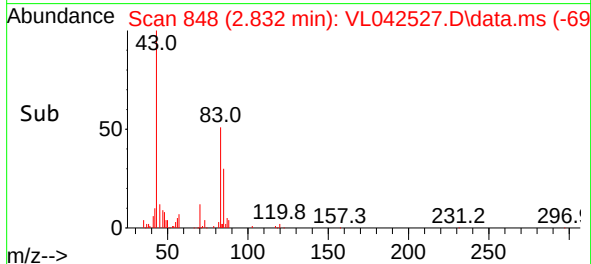
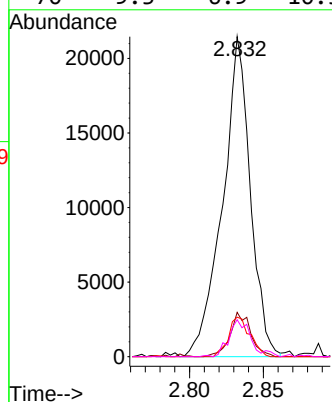
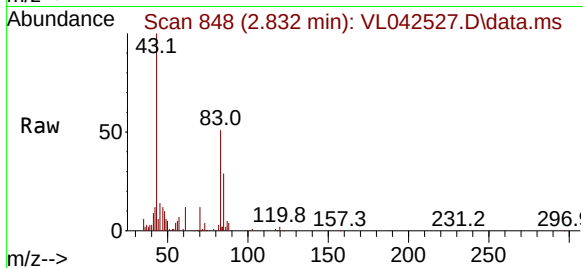
#25
Ethyl Acetate
Concen: 0.909 ppbv
RT: 2.832 min Scan# 844
Delta R.T. 0.006 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion	Ratio	Lower	Upper
43	100		
45	10.7	7.9	11.9
61	9.6	7.1	10.7
70	9.3	6.9	10.3

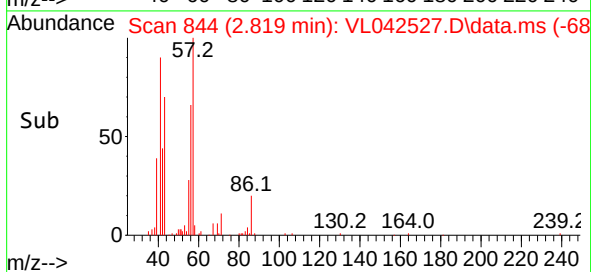
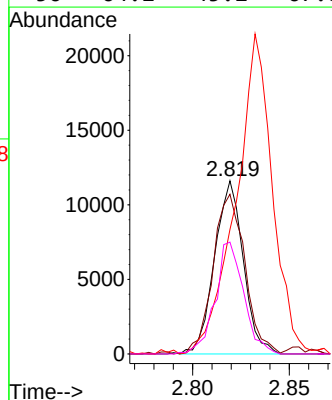
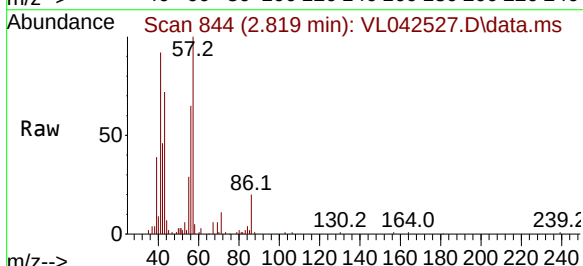
Manual Integrations
APPROVED

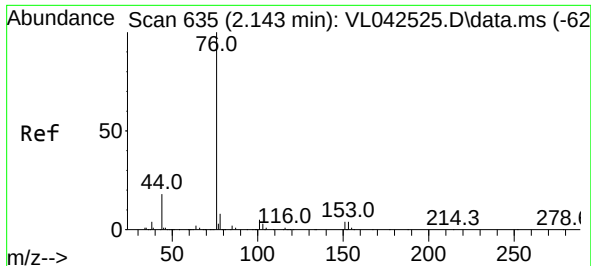
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#26
Hexane
Concen: 0.945 ppbv
RT: 2.819 min Scan# 844
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Tgt Ion	Ratio	Lower	Upper
57	100		
41	106.2	76.1	114.1
43	236.9	188.9	283.3
56	64.2	45.2	67.8





#27

Carbon Disulfide

Concen: 0.979 ppbv

RT: 2.146 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Instrument :

MSVOA_L

ClientSampleId :

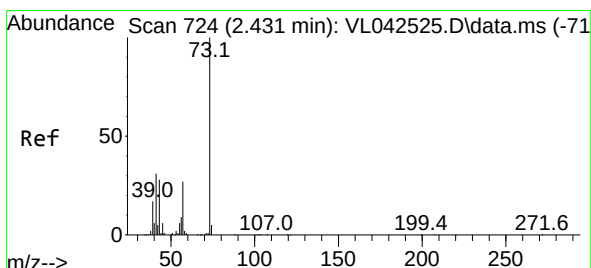
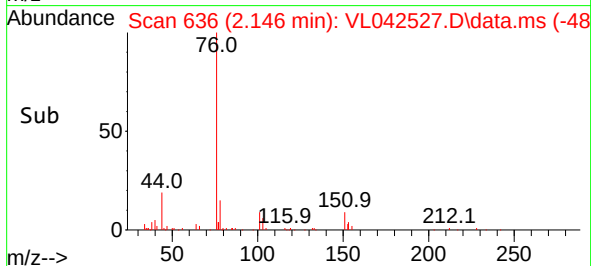
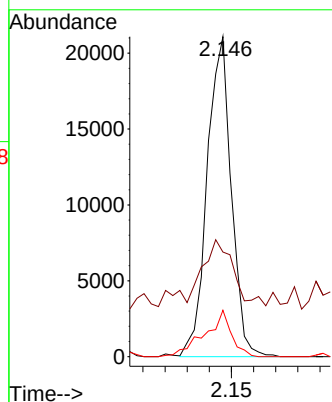
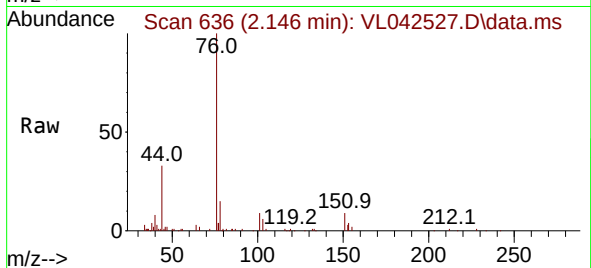
VSTDICC001

Tgt Ion: 76	Resp: 1601
Ion Ratio	Lower Upper
76 100	
44 90.3	17.1 25.7
78 15.9	8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#28

Methyl tert-Butyl Ether

Concen: 0.965 ppbv

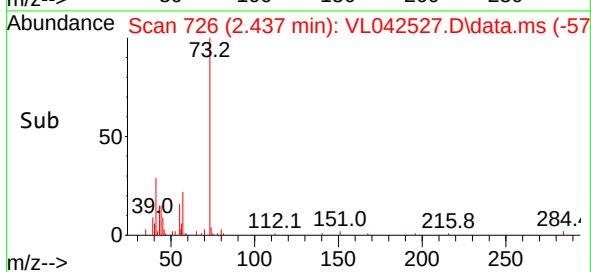
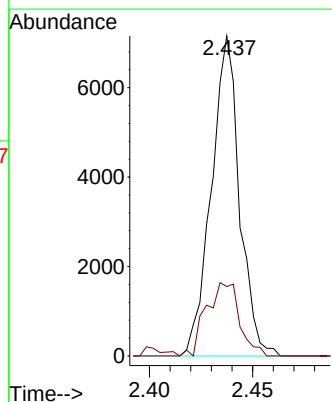
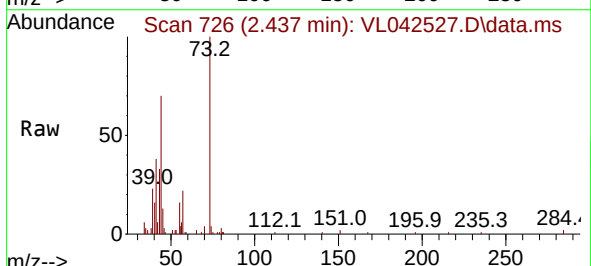
RT: 2.437 min Scan# 726

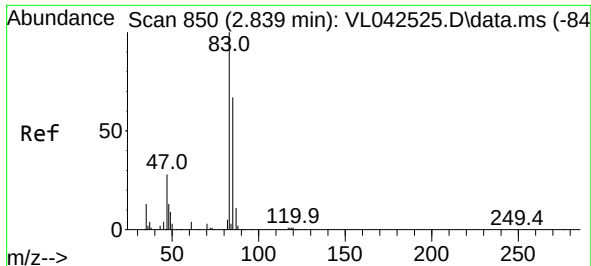
Delta R.T. 0.006 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Tgt Ion: 73	Resp: 6789
Ion Ratio	Lower Upper
73 100	
57 29.1	20.3 30.5





#29

Chloroform

Concen: 1.026 ppbv

RT: 2.842 min Scan# 851

Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 83 Resp: 2695

Ion Ratio Lower Upper

83 100

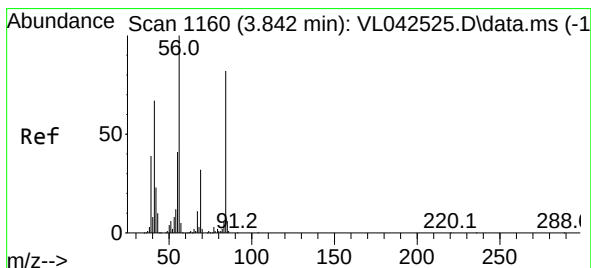
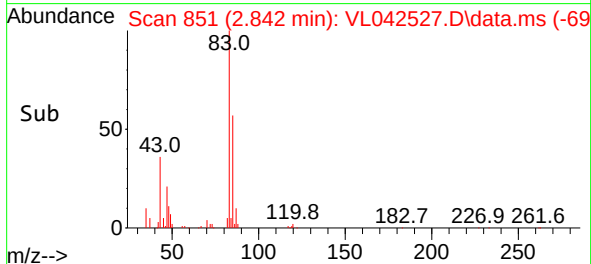
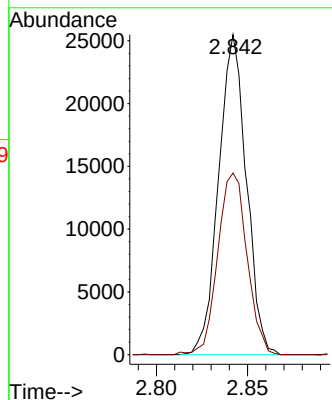
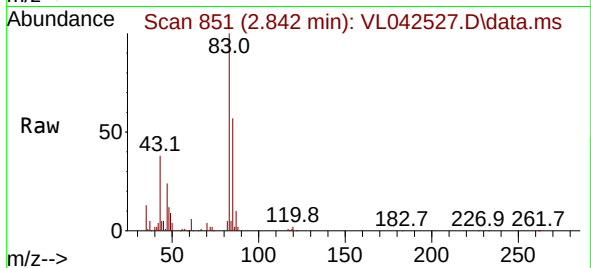
85 56.7 53.5 80.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#30

Cyclohexane

Concen: 0.847 ppbv m

RT: 3.845 min Scan# 1161

Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

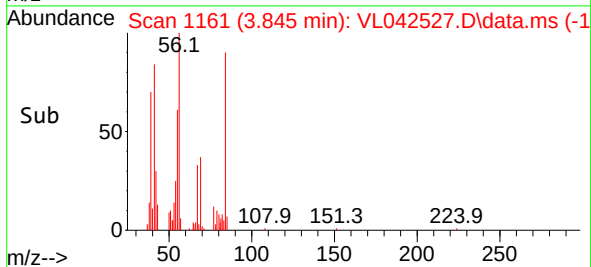
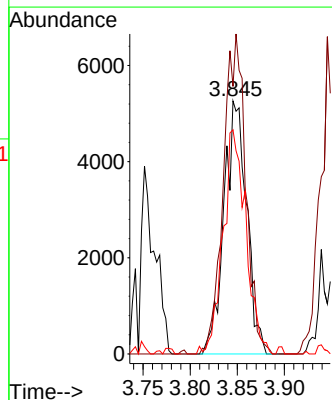
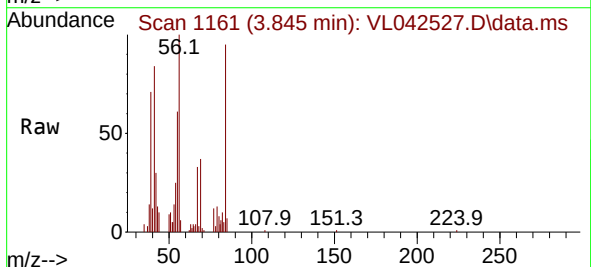
Tgt Ion: 84 Resp: 8805

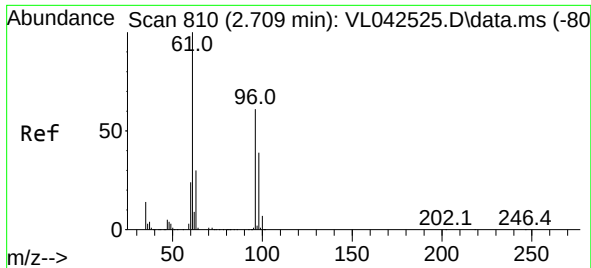
Ion Ratio Lower Upper

84 100

56 125.2 97.1 145.7

41 89.9 66.6 99.8





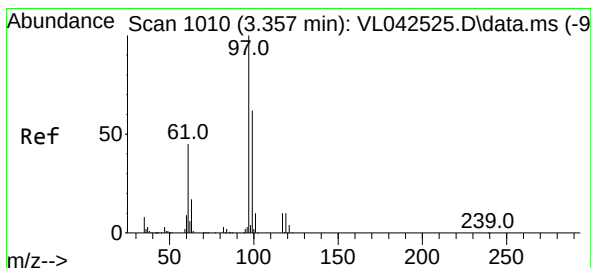
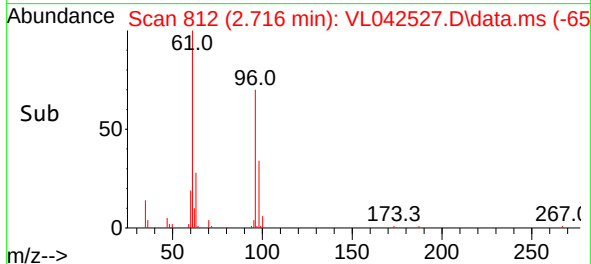
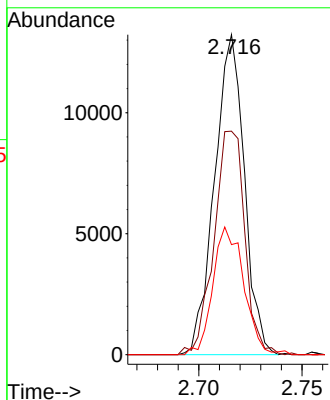
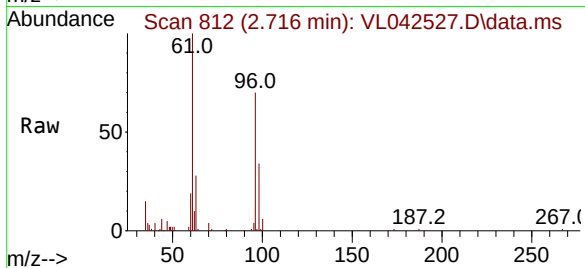
#31
 cis-1,2-Dichloroethene
 Concen: 0.928 ppbv
 RT: 2.716 min Scan# 811
 Delta R.T. 0.006 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion: 61 Resp: 1326
 Ion Ratio Lower Upper
 61 100
 96 69.8 48.9 73.3
 98 34.4 31.4 47.2

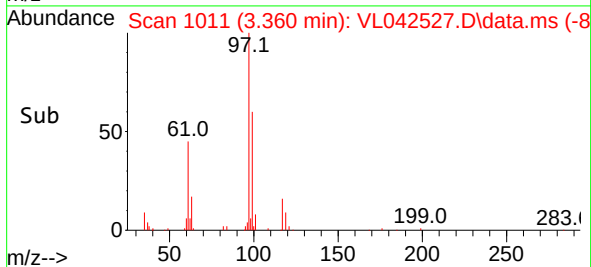
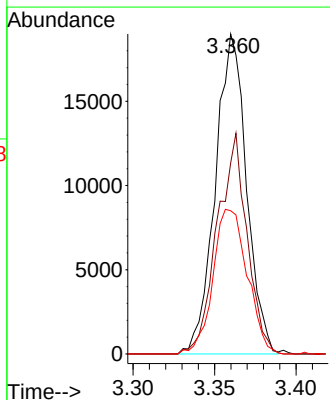
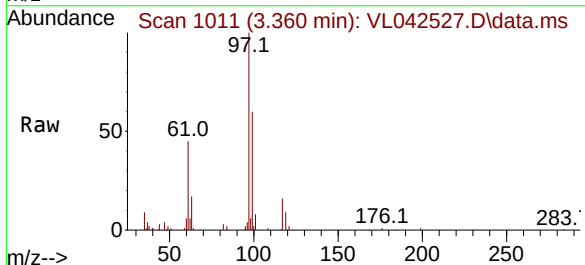
Manual Integrations
 APPROVED

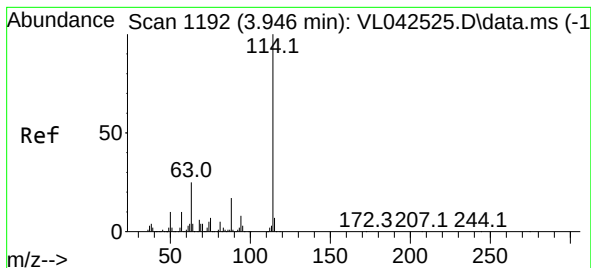
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#32
 1,1,1-Trichloroethane
 Concen: 0.955 ppbv
 RT: 3.360 min Scan# 1011
 Delta R.T. 0.003 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

Tgt Ion: 97 Resp: 25297
 Ion Ratio Lower Upper
 97 100
 99 65.8 50.1 75.1
 61 49.8 38.2 57.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Instrument :

MSVOA_L

ClientSampleId :

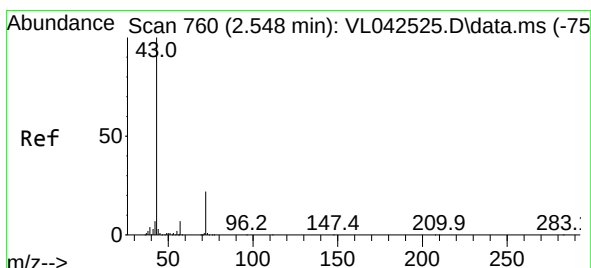
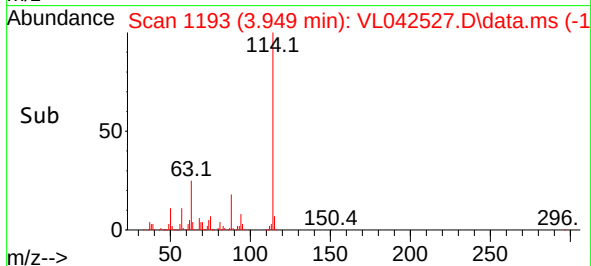
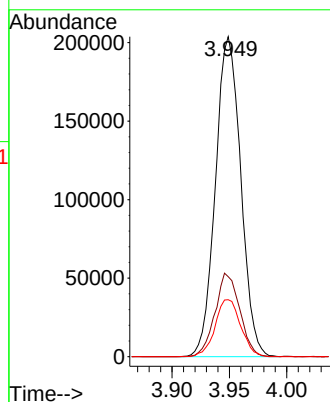
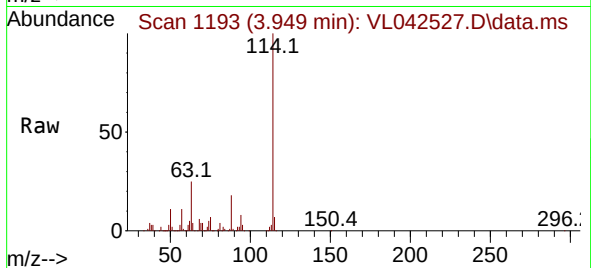
VSTDIC001

Tgt Ion:114	Resp:	31299
Ion Ratio	Lower	Upper
114	100	
63	25.5	20.4 30.6
88	18.0	14.5 21.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#34

2-Butanone

Concen: 0.978 ppbv

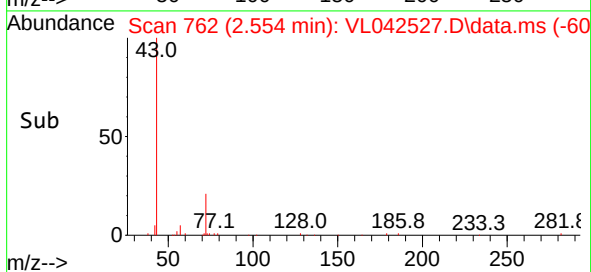
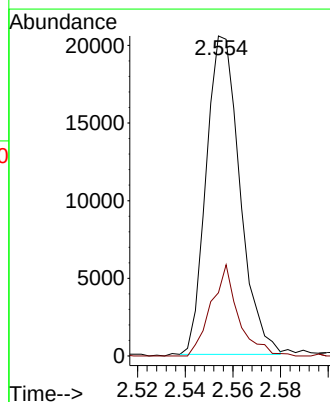
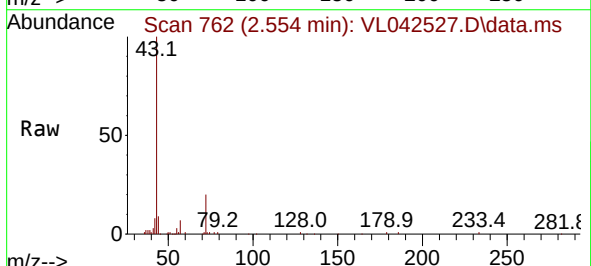
RT: 2.554 min Scan# 762

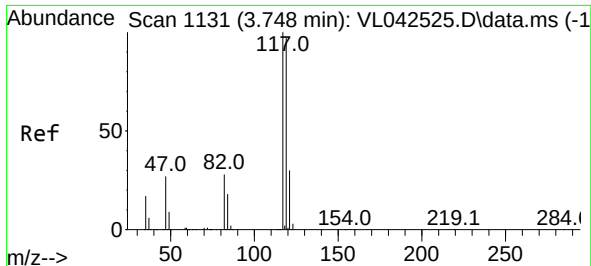
Delta R.T. 0.006 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

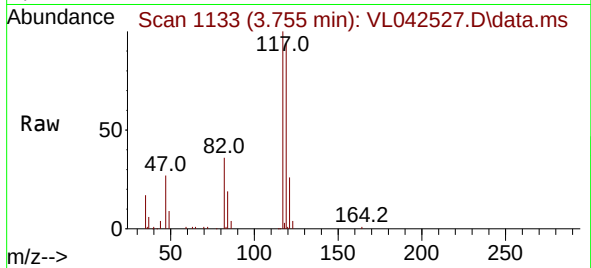
Tgt Ion: 43	Resp:	20174
Ion Ratio	Lower	Upper
43	100	
72	23.4	18.7 28.1





#35
Carbon Tetrachloride
Concen: 0.966 ppbv
RT: 3.755 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

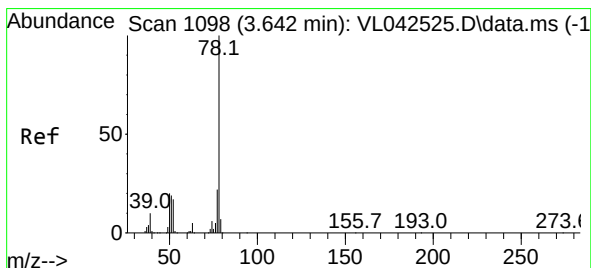
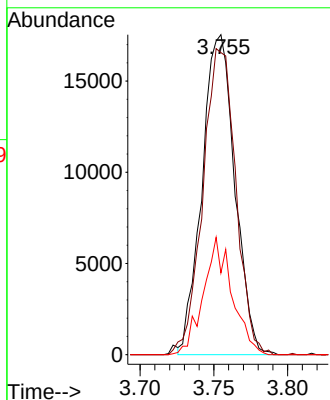
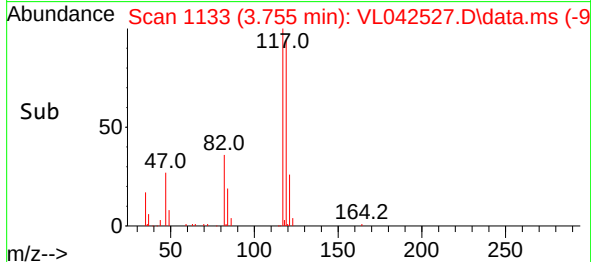
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



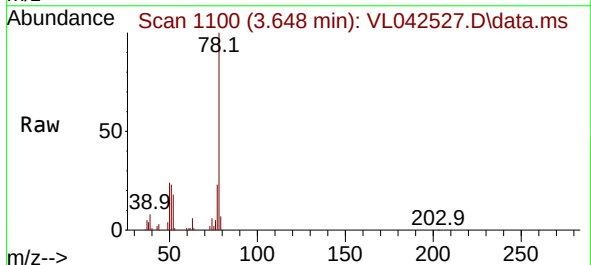
Tgt Ion: 117 Resp: 2718
Ion Ratio Lower Upper
117 100
119 94.4 77.7 116.5
121 25.5 24.0 36.0

Manual Integrations
APPROVED

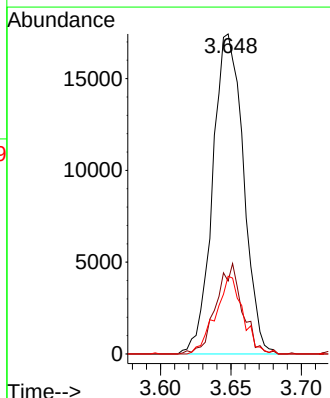
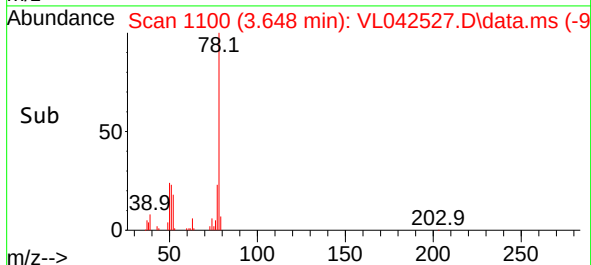
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

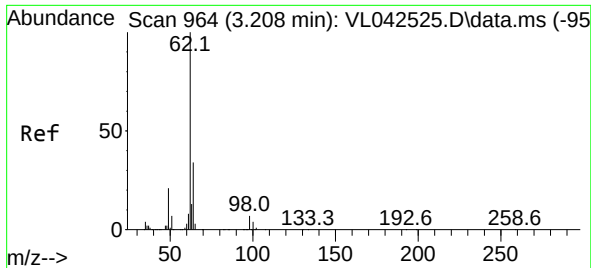


#36
Benzene
Concen: 0.954 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. 0.006 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07



Tgt Ion: 78 Resp: 26465
Ion Ratio Lower Upper
78 100
77 22.8 17.4 26.2
50 24.3 16.3 24.5





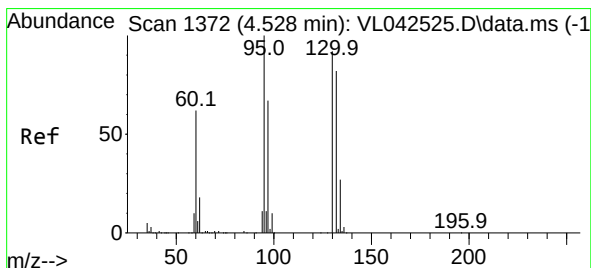
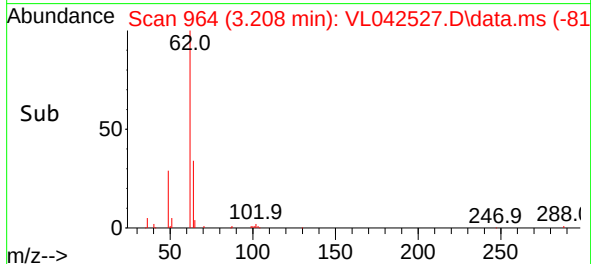
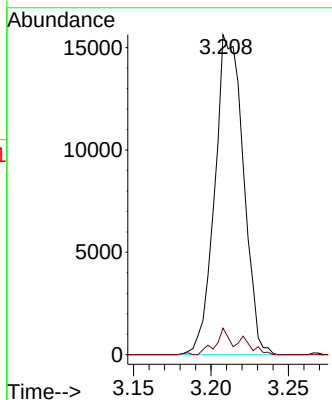
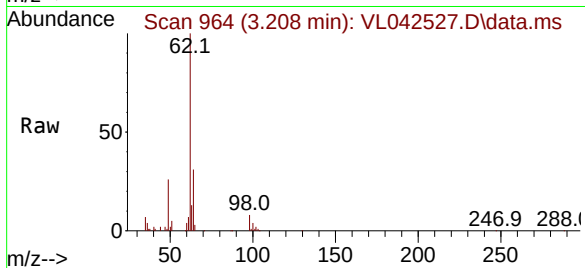
#37
1,2-Dichloroethane
Concen: 1.013 ppbv
RT: 3.208 min Scan# 90
Delta R.T. -0.000 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 62 Resp: 20039
Ion Ratio Lower Upper
62 100
98 6.9 5.0 7.4

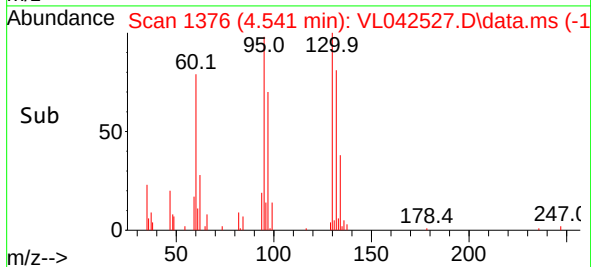
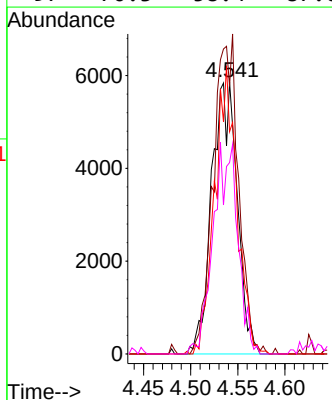
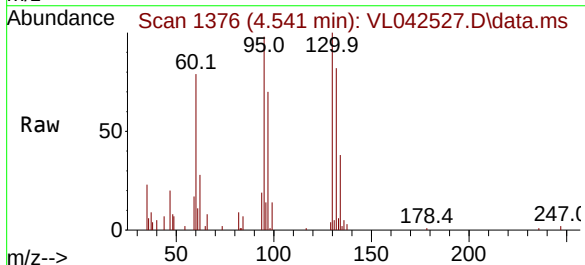
Manual Integrations
APPROVED

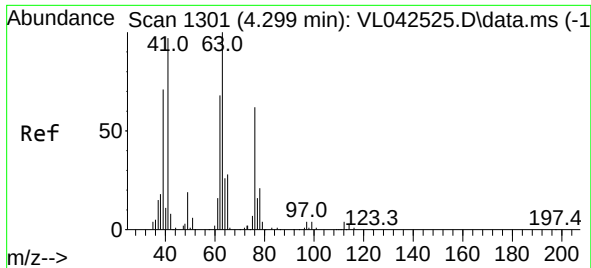
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#38
Trichloroethene
Concen: 0.930 ppbv m
RT: 4.541 min Scan# 1376
Delta R.T. 0.013 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

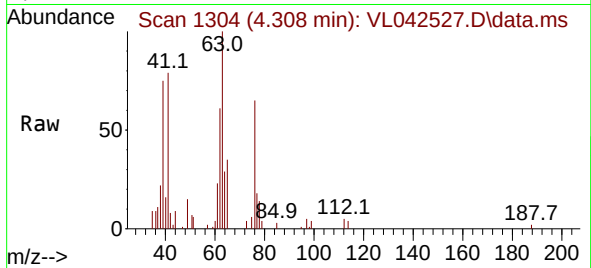
Tgt Ion:130 Resp: 11026
Ion Ratio Lower Upper
130 100
95 98.4 87.0 130.4
132 81.7 71.1 106.7
97 70.3 58.4 87.6





#39
1,2-Dichloropropane
Concen: 1.004 ppbv m
RT: 4.308 min Scan# 1304
Delta R.T. 0.010 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

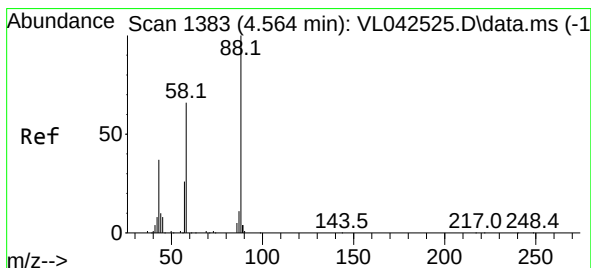
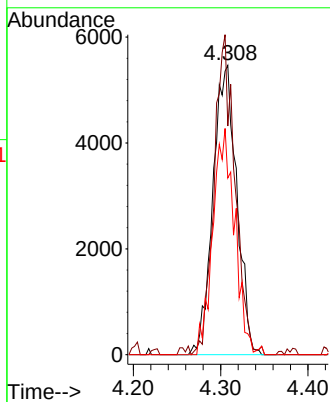
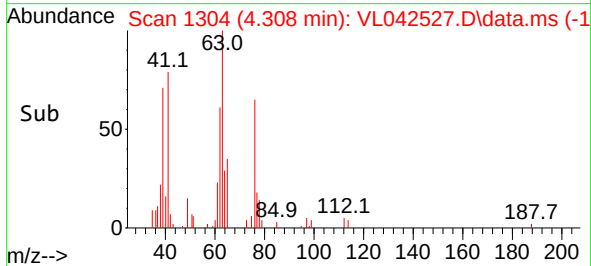
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



Tgt Ion: 63 Resp: 1036
Ion Ratio Lower Upper
63 100
41 79.0 77.5 116.3
62 61.1 54.6 82.0

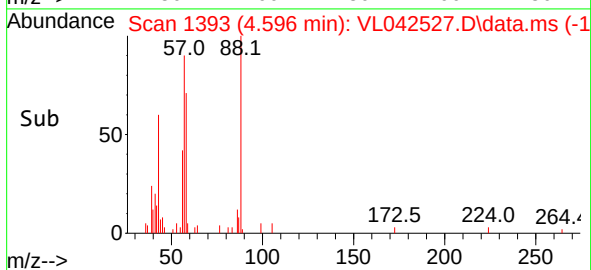
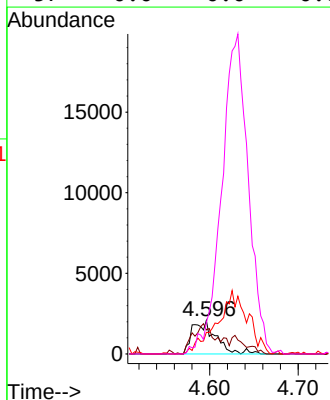
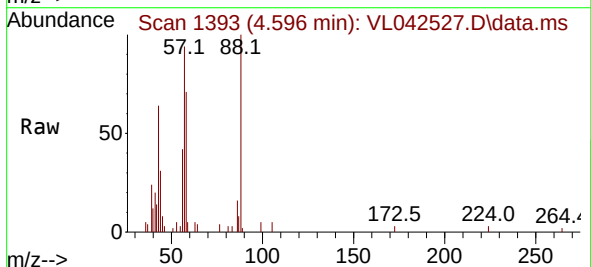
Manual Integrations
APPROVED

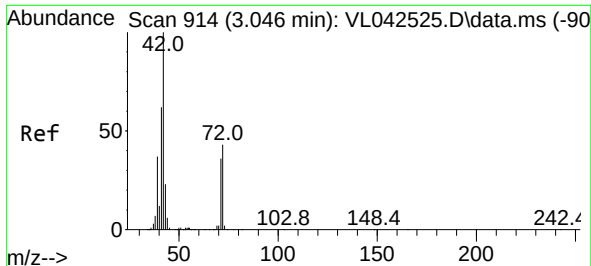
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#40
1,4-Dioxane
Concen: 0.931 ppbv m
RT: 4.596 min Scan# 1393
Delta R.T. 0.032 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

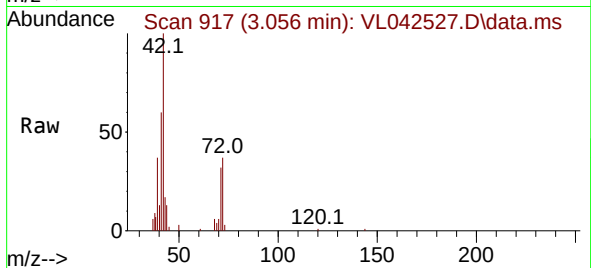
Tgt Ion: 88 Resp: 3834
Ion Ratio Lower Upper
88 100
58 0.0 58.2 87.2#
43 0.0 27.9 41.9#
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 0.893 ppbv
RT: 3.056 min Scan# 914
Delta R.T. 0.010 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

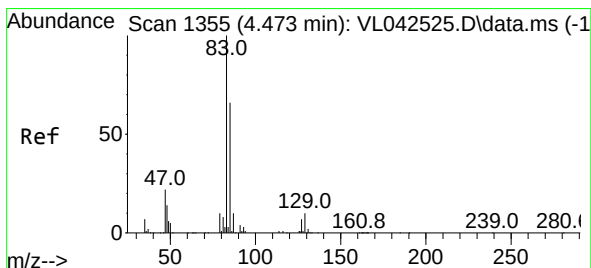
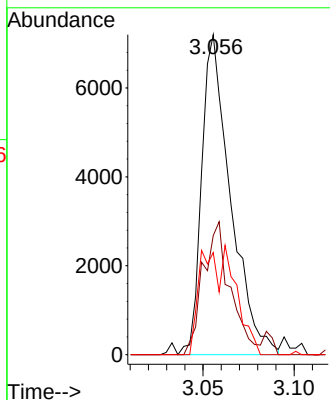
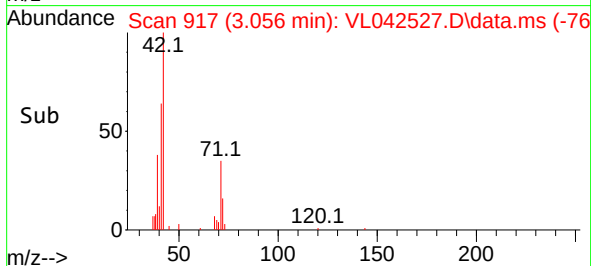
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



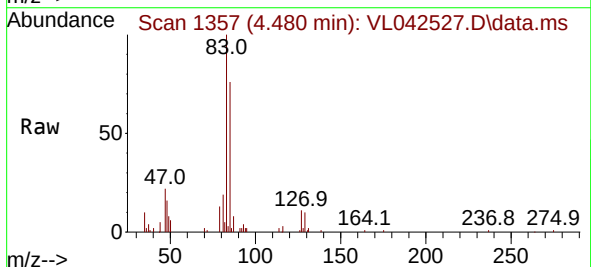
Tgt Ion: 42 Resp: 7944
Ion Ratio Lower Upper
42 100
72 41.7 32.7 49.1
71 40.4 30.4 45.6

Manual Integrations
APPROVED

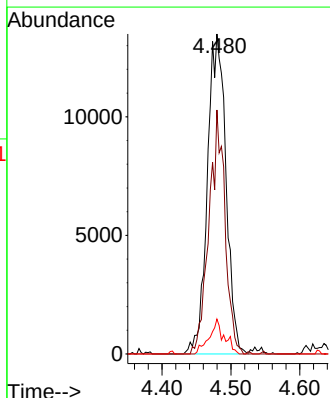
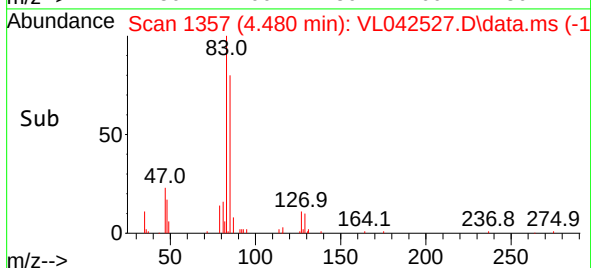
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

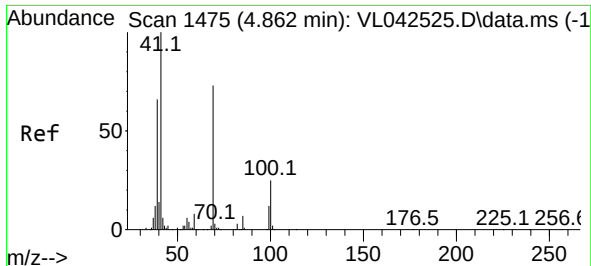


#42
Bromodichloromethane
Concen: 0.969 ppbv m
RT: 4.480 min Scan# 1357
Delta R.T. 0.006 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07



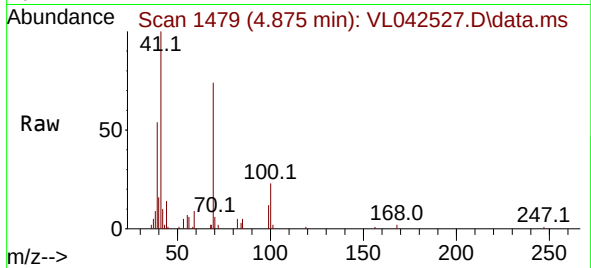
Tgt Ion: 83 Resp: 25549
Ion Ratio Lower Upper
83 100
85 76.3 52.6 79.0
127 10.9 6.0 9.0#





#43
Methyl Methacrylate
Concen: 0.880 ppbv m
RT: 4.875 min Scan# 1475
Delta R.T. 0.013 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

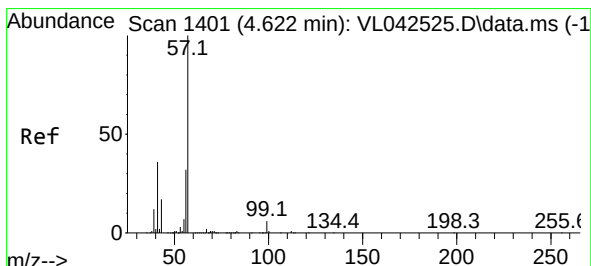
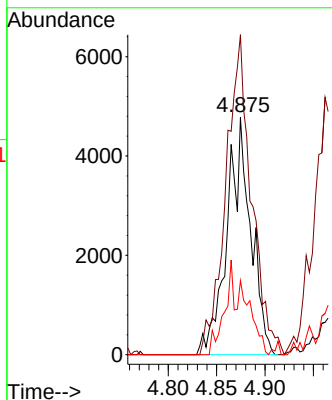
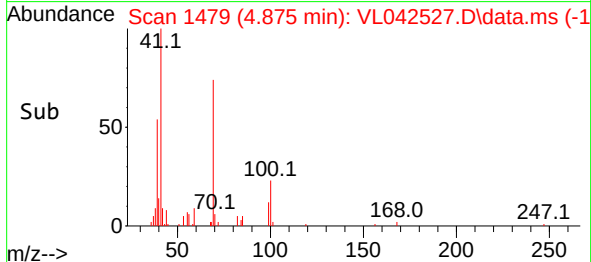
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



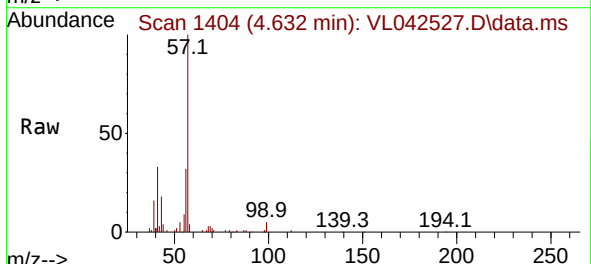
Tgt Ion: 69 Resp: 8149
Ion Ratio Lower Upper
69 100
41 0.0 119.9 179.9
100 35.1 28.4 42.6

Manual Integrations
APPROVED

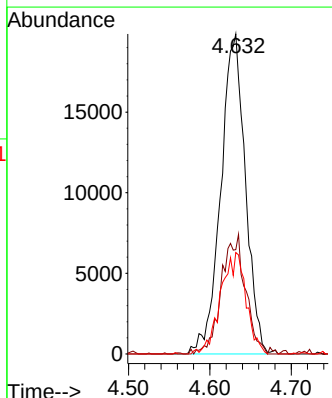
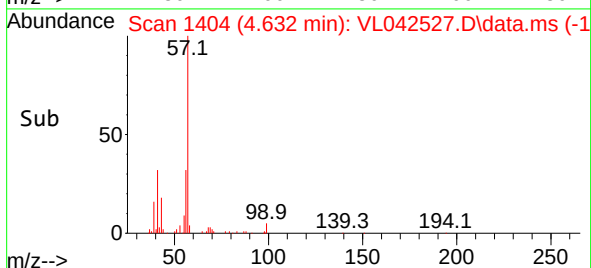
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

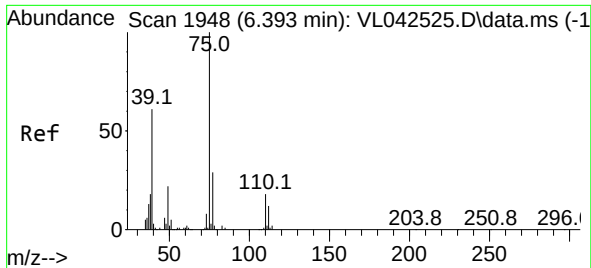


#44
2,2,4-Trimethylpentane
Concen: 0.956 ppbv m
RT: 4.632 min Scan# 1404
Delta R.T. 0.010 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07



Tgt Ion: 57 Resp: 41666
Ion Ratio Lower Upper
57 100
41 37.6 28.3 42.5
56 32.7 25.9 38.9





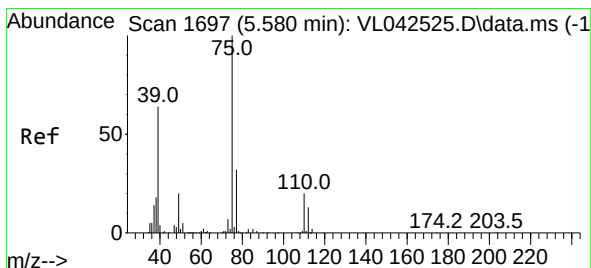
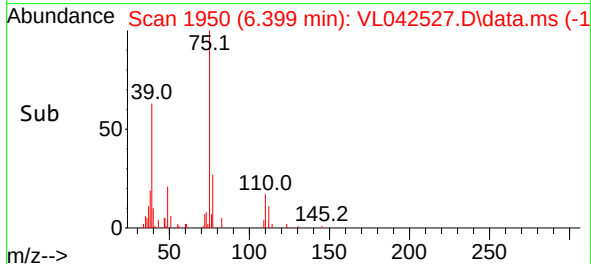
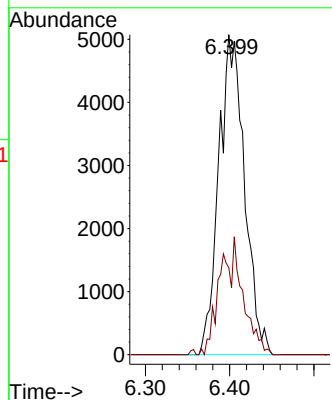
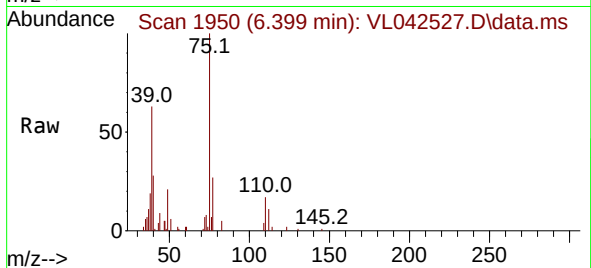
#45
 t-1,3-Dichloropropene
 Concen: 0.906 ppbv m
 RT: 6.399 min Scan# 1948
 Delta R.T. 0.006 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Tgt Ion: 75 Resp: 10710
 Ion Ratio Lower Upper
 75 100
 77 27.2 23.3 34.9

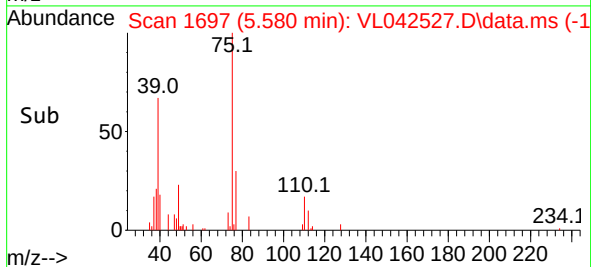
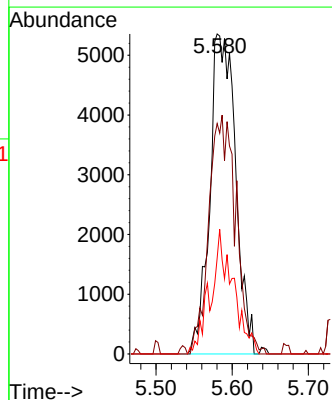
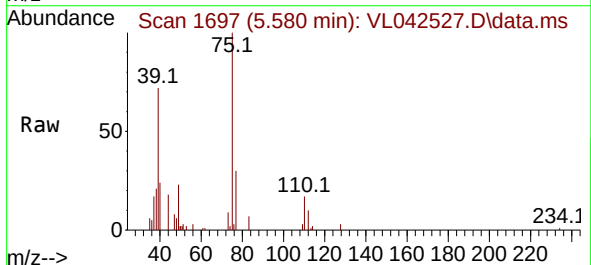
Manual Integrations
 APPROVED

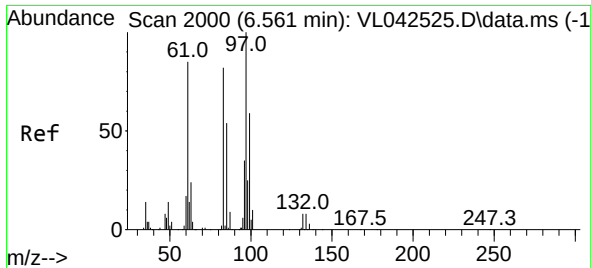
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#46
 cis-1,3-Dichloropropene
 Concen: 0.884 ppbv m
 RT: 5.580 min Scan# 1697
 Delta R.T. -0.000 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

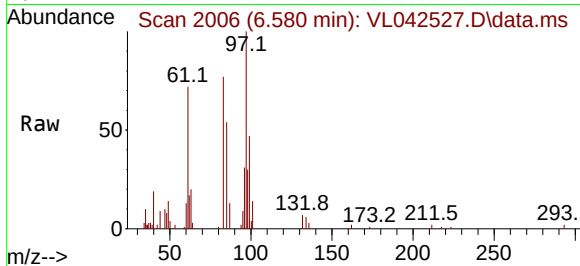
Tgt Ion: 75 Resp: 12616
 Ion Ratio Lower Upper
 75 100
 39 72.0 51.2 76.8
 77 29.9 25.4 38.0





#47
1,1,2-Trichloroethane
Concen: 0.957 ppbv m
RT: 6.580 min Scan# 2006
Delta R.T. 0.019 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

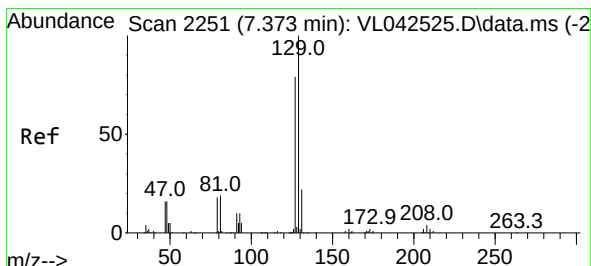
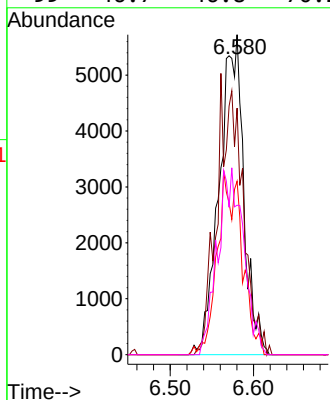
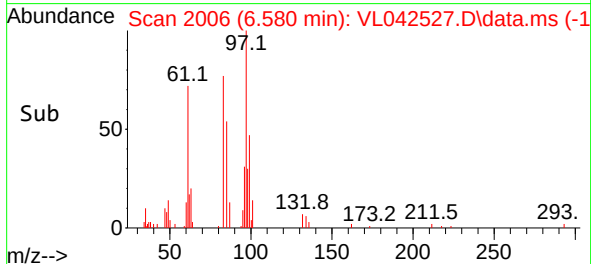
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



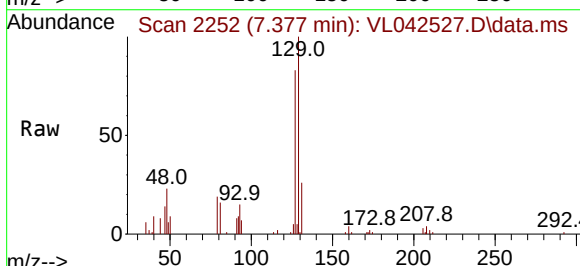
Tgt Ion: 97 Resp: 11630
Ion Ratio Lower Upper
97 100
83 77.1 66.0 99.0
85 54.2 42.8 64.2
99 46.7 46.8 70.2#

Manual Integrations
APPROVED

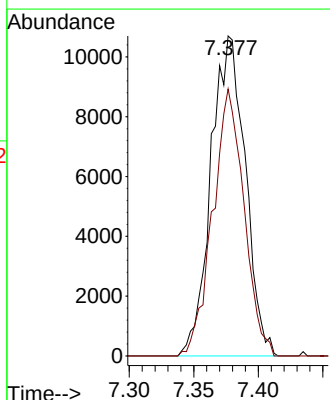
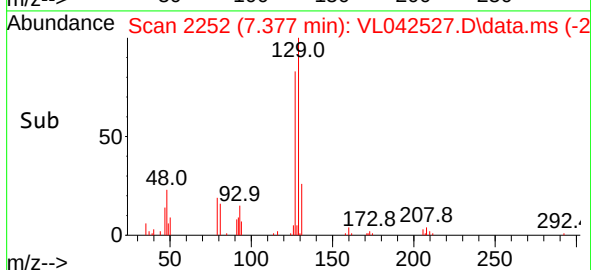
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

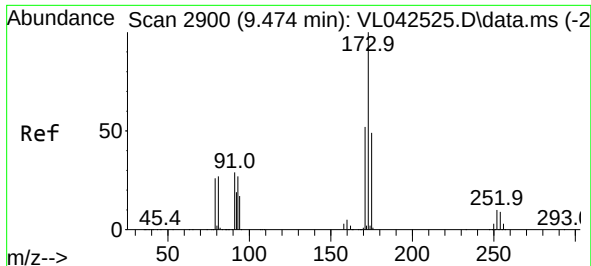


#48
Dibromochloromethane
Concen: 0.973 ppbv
RT: 7.377 min Scan# 2252
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07



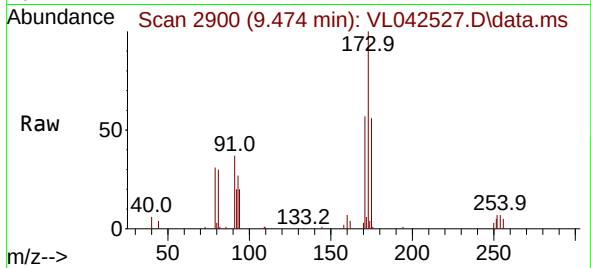
Tgt Ion:129 Resp: 19761
Ion Ratio Lower Upper
129 100
127 76.2 39.6 118.8





#49
Bromoform
Concen: 0.944 ppbv
RT: 9.474 min Scan# 2900
Delta R.T. -0.000 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

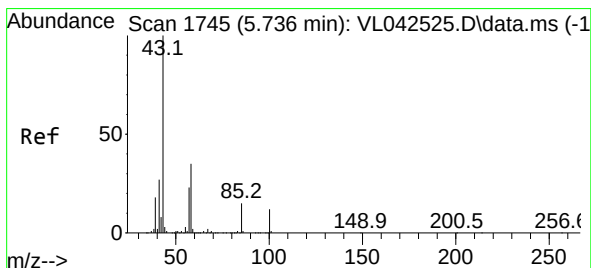
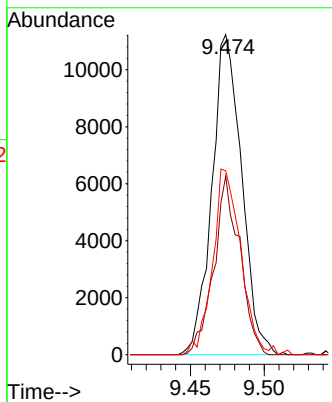
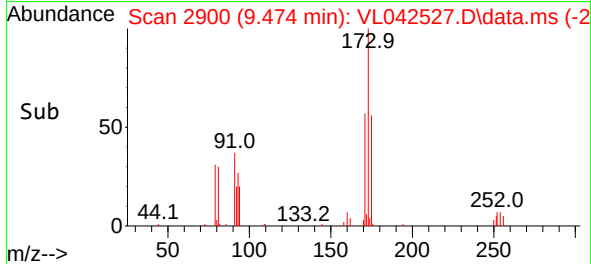
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



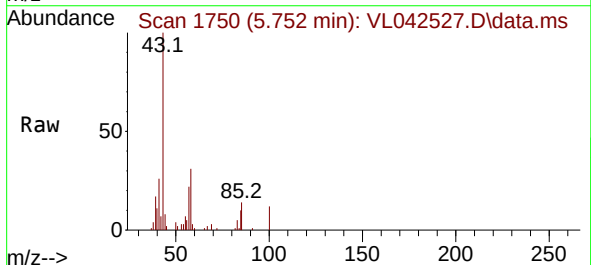
Tgt Ion: 173 Resp: 15749
Ion Ratio Lower Upper
173 100
175 48.8 39.1 58.7
171 55.0 41.8 62.8

Manual Integrations
APPROVED

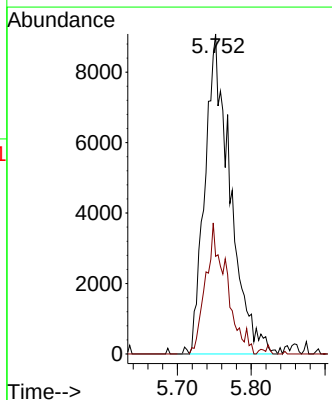
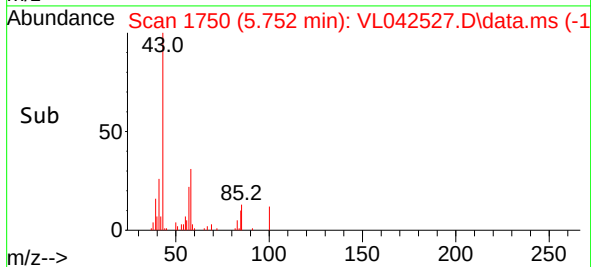
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

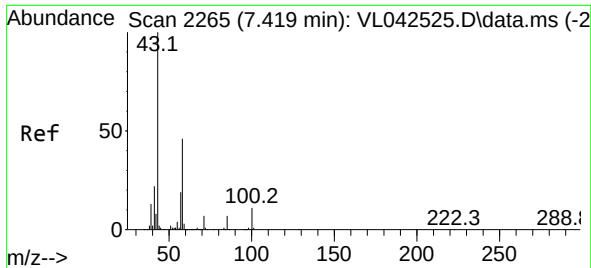


#50
4-Methyl-2-Pentanone
Concen: 0.898 ppbv m
RT: 5.752 min Scan# 1750
Delta R.T. 0.016 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07



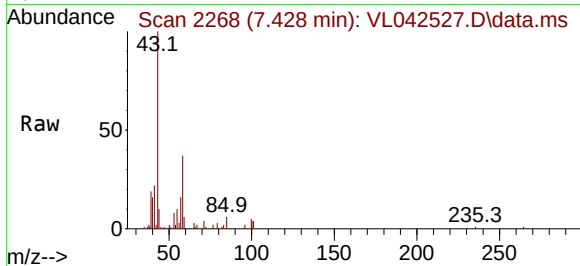
Tgt Ion: 43 Resp: 21720
Ion Ratio Lower Upper
43 100
58 34.1 28.6 42.8





#51
2-Hexanone
Concen: 0.815 ppbv m
RT: 7.428 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

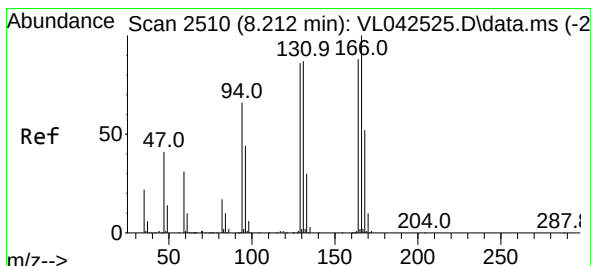
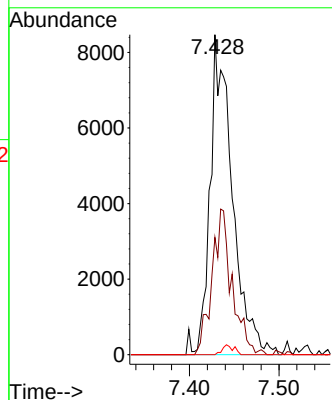
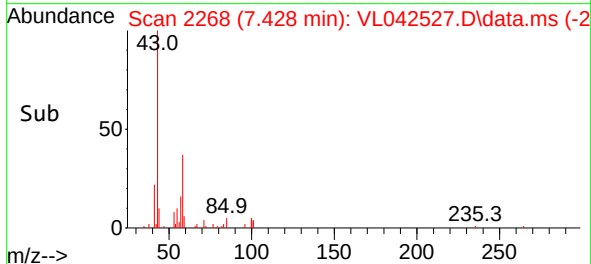
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 43 Resp: 14649
Ion Ratio Lower Upper
43 100
58 0.0 37.5 56.3#
98 0.0 0.9 1.3#

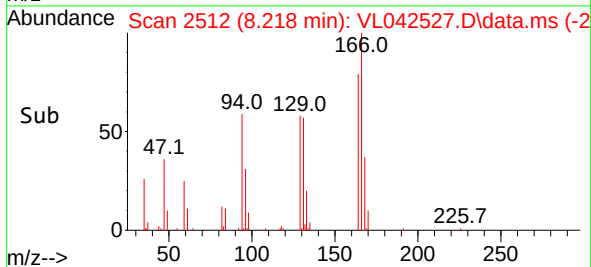
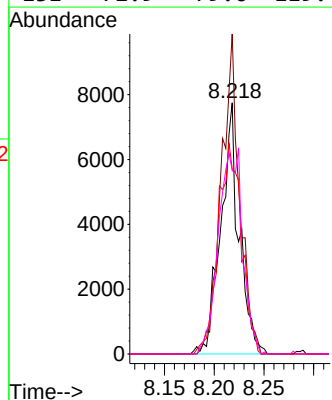
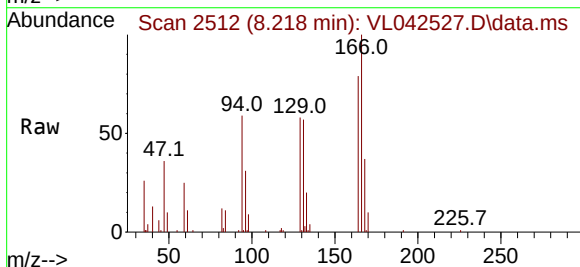
Manual Integrations
APPROVED

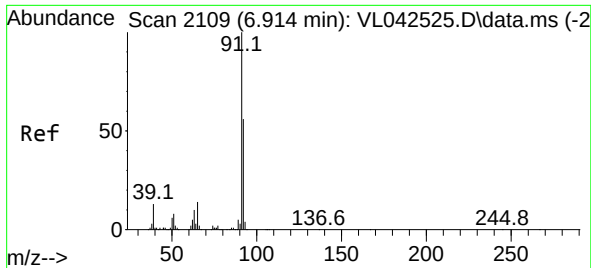
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#52
Tetrachloroethene
Concen: 0.928 ppbv m
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

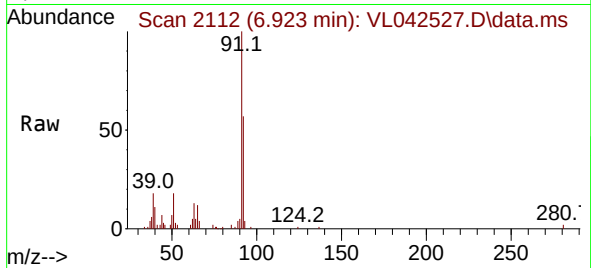
Tgt Ion:164 Resp: 9912
Ion Ratio Lower Upper
164 100
166 127.4 91.3 136.9
129 73.8 78.9 118.3#
131 72.9 79.6 119.4#





#53
Toluene
Concen: 0.841 ppbv m
RT: 6.923 min Scan# 2109
Delta R.T. 0.010 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

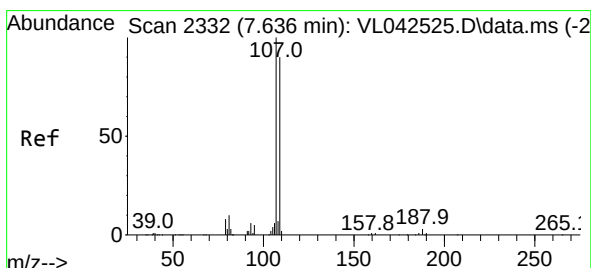
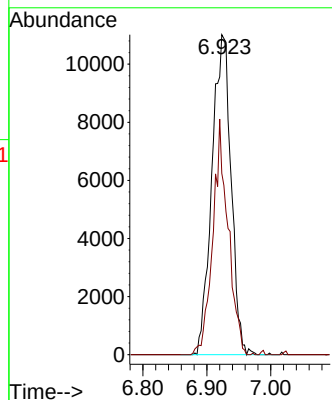
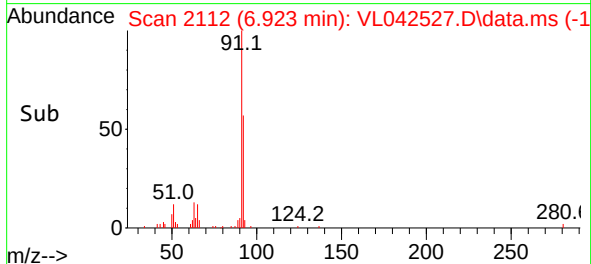
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



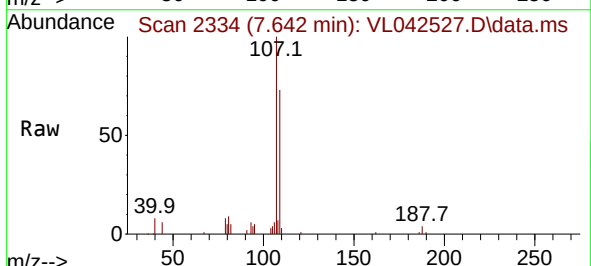
Tgt Ion: 91 Resp: 2289
Ion Ratio Lower Upper
91 100
92 59.1 47.8 71.6

Manual Integrations
APPROVED

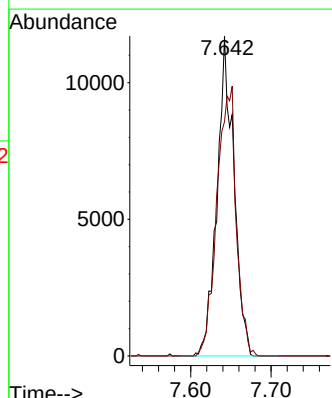
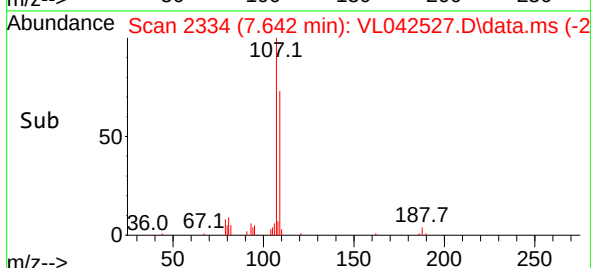
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

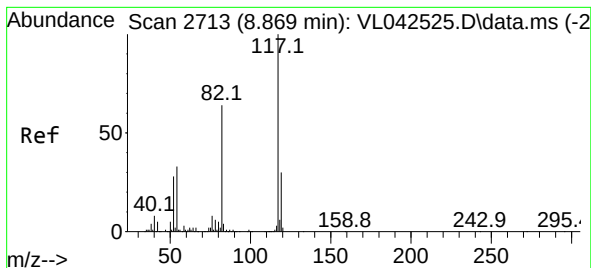


#54
1,2-Dibromoethane
Concen: 0.955 ppbv m
RT: 7.642 min Scan# 2334
Delta R.T. 0.006 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07



Tgt Ion:107 Resp: 16971
Ion Ratio Lower Upper
107 100
109 73.3 72.2 108.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 2715

Delta R.T. 0.006 min

Lab File: VL042527.D

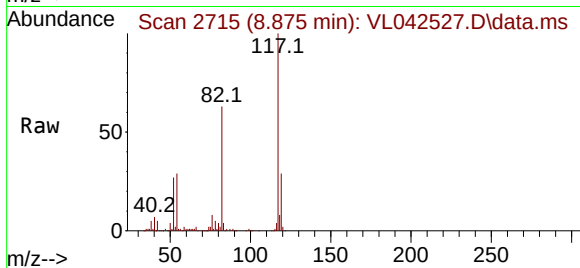
Acq: 12 May 2025 10:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

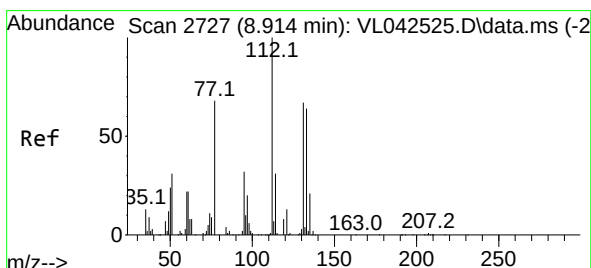
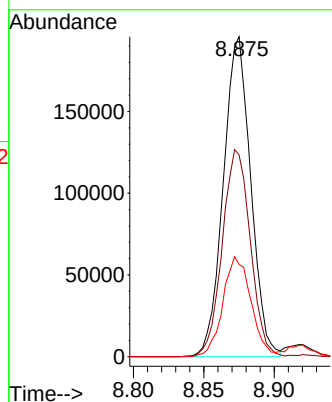
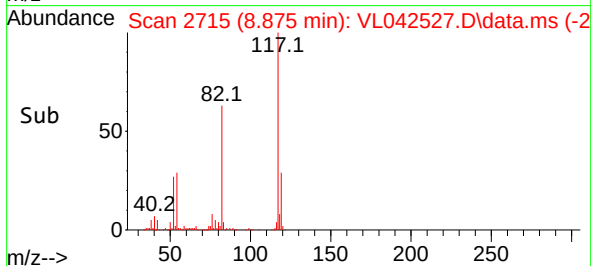


Tgt Ion	Ratio	Lower	Upper
117	100		
82	66.6	55.0	82.4
119	35.5	25.8	38.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 1.010 ppbv

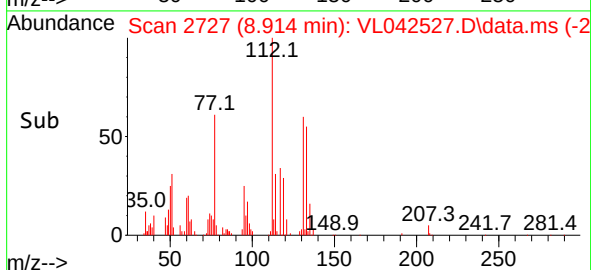
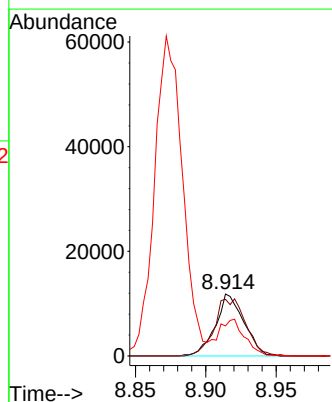
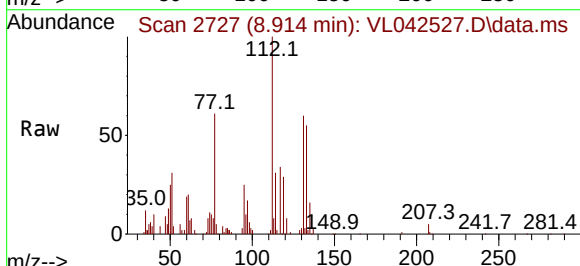
RT: 8.914 min Scan# 2727

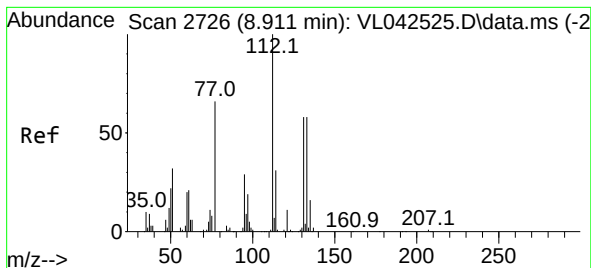
Delta R.T. -0.000 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Tgt Ion	Ratio	Lower	Upper
131	100		
133	102.2	77.4	116.2
119	566.5	49.0	73.4





#57

Chlorobenzene

Concen: 0.973 ppbv

RT: 8.914 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Instrument :

MSVOA_L

ClientSampleId :

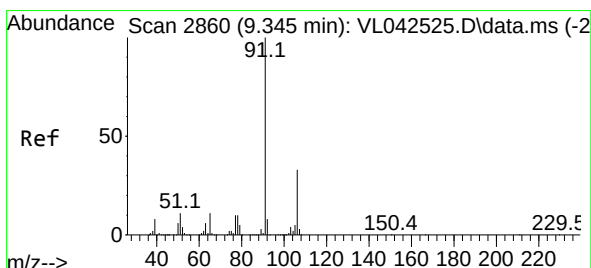
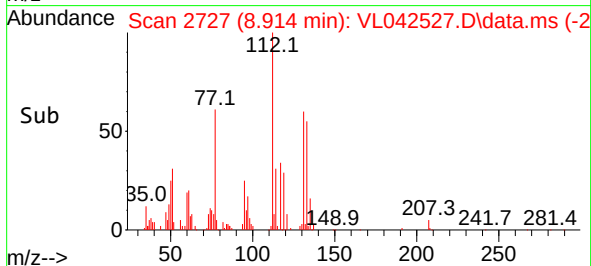
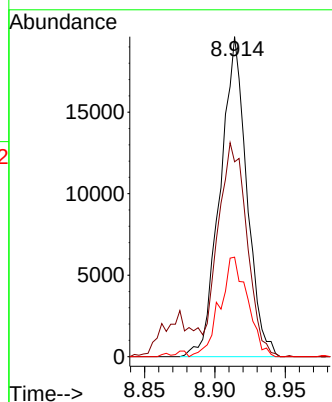
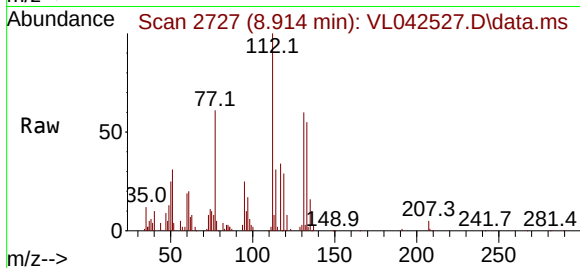
VSTDICC001

Tgt Ion:	112	Resp:	25980
Ion Ratio	Lower	Upper	
112	100		
77	60.9	53.6	80.4
114	30.8	28.2	34.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#58

Ethyl Benzene

Concen: 0.795 ppbv m

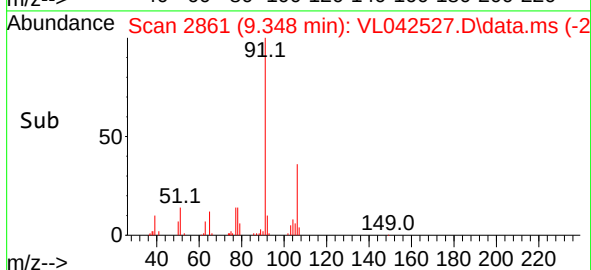
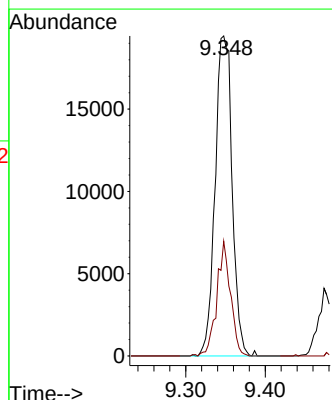
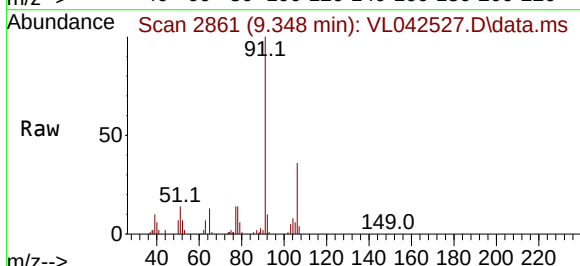
RT: 9.348 min Scan# 2861

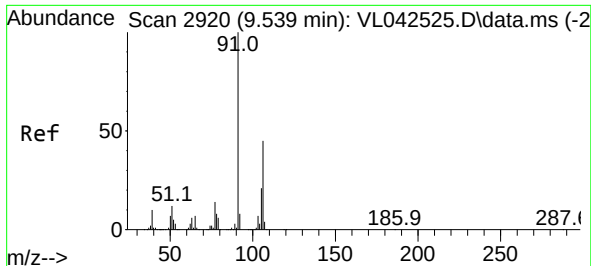
Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Tgt Ion:	91	Resp:	28807
Ion Ratio	Lower	Upper	
91	100		
106	35.9	26.0	39.0





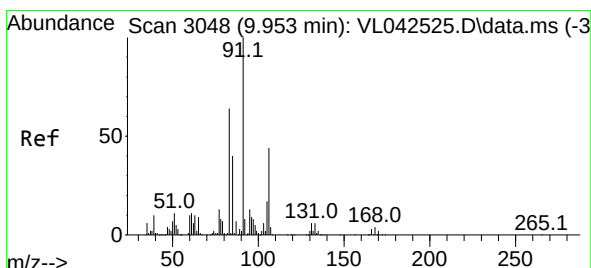
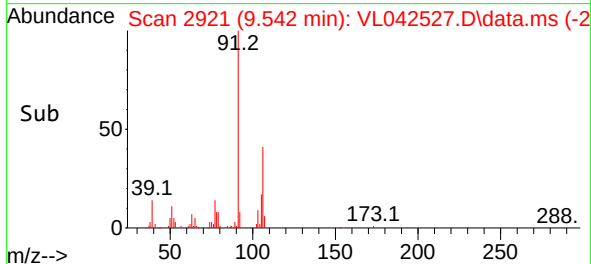
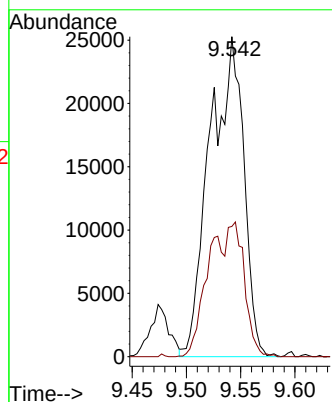
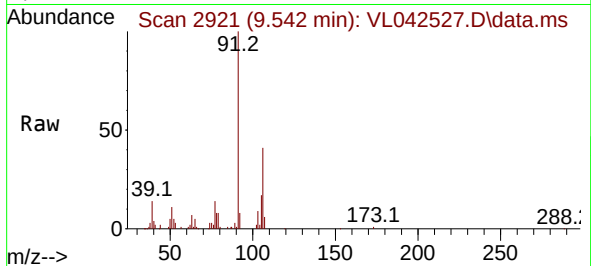
#59
m/p-Xylene
Concen: 1.695 ppbv m
RT: 9.542 min Scan# 2920
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 91 Resp: 5464
Ion Ratio Lower Upper
91 100
106 44.4 0.0 0.0

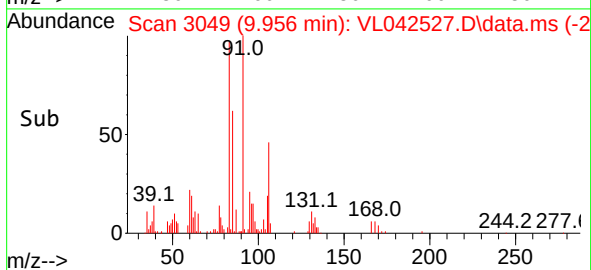
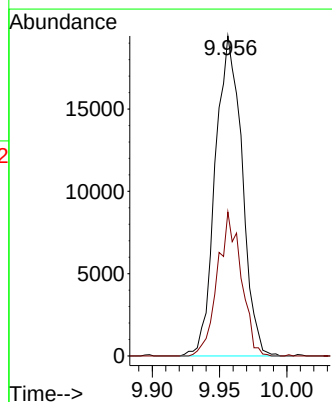
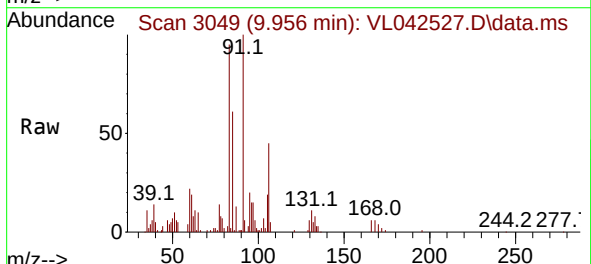
Manual Integrations
APPROVED

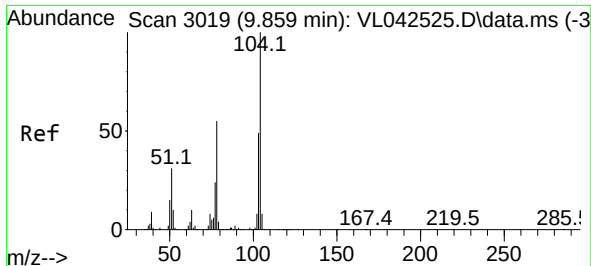
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#60
o-Xylene
Concen: 0.854 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Tgt Ion: 91 Resp: 26834
Ion Ratio Lower Upper
91 100
106 40.1 21.6 64.6





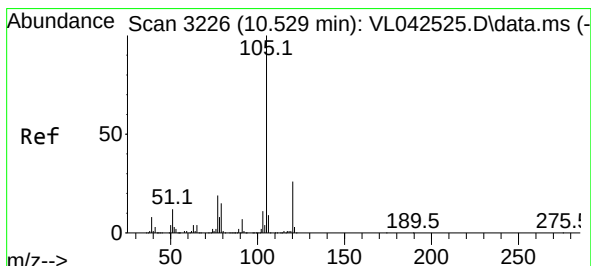
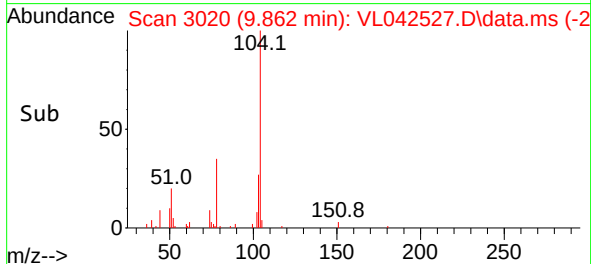
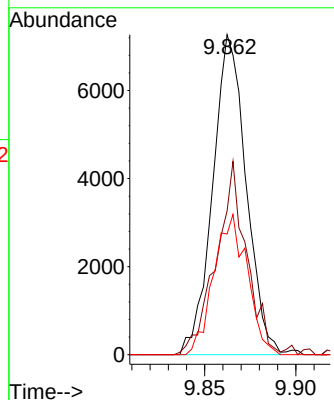
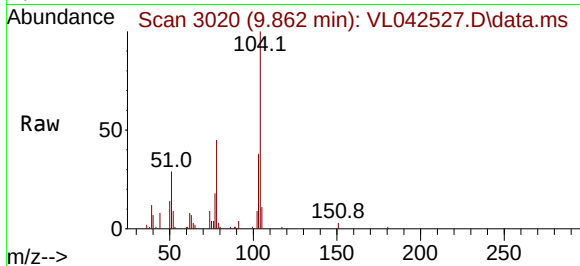
#61
Styrene
Concen: 0.800 ppbv
RT: 9.862 min Scan# 3019
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:104 Resp: 9258
Ion Ratio Lower Upper
104 100
78 55.5 44.7 67.1
103 44.0 38.6 58.0

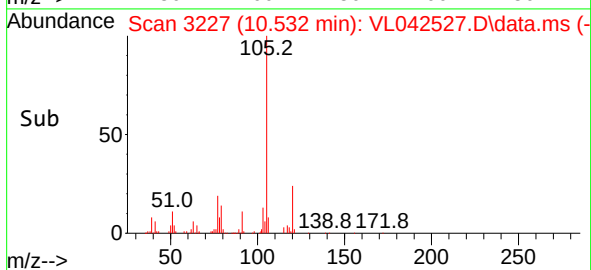
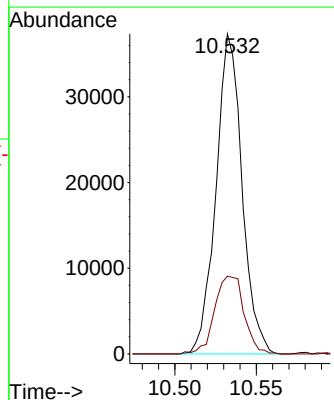
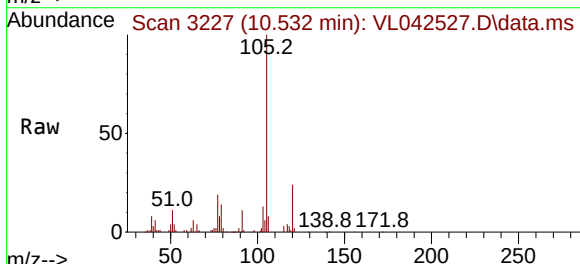
Manual Integrations
APPROVED

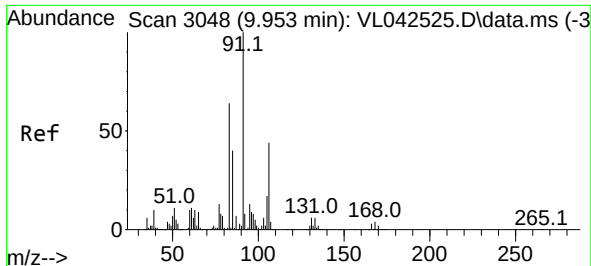
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#62
Isopropylbenzene
Concen: 0.877 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Tgt Ion:105 Resp: 41504
Ion Ratio Lower Upper
105 100
120 27.4 20.1 30.1





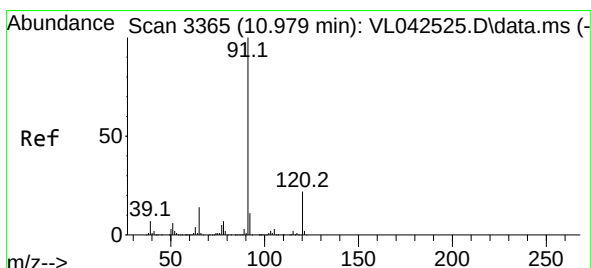
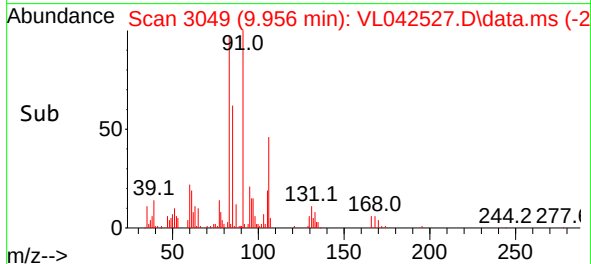
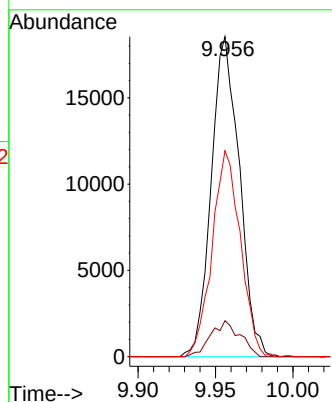
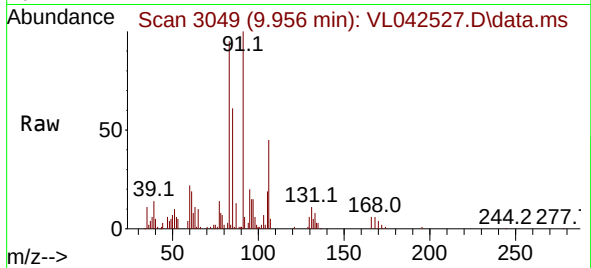
#63
1,1,2,2-Tetrachloroethane
Concen: 0.930 ppbv
RT: 9.956 min Scan# 3048
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 83 Resp: 23419
Ion Ratio Lower Upper
83 100
131 11.7 4.9 14.7
85 64.6 32.3 96.8

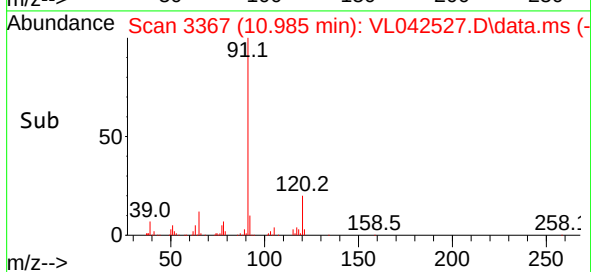
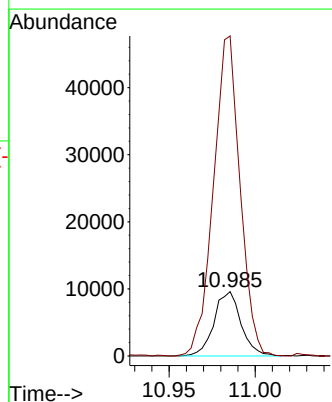
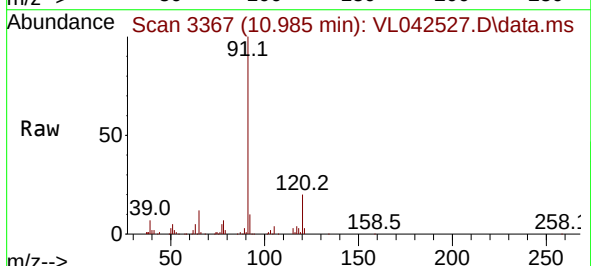
Manual Integrations
APPROVED

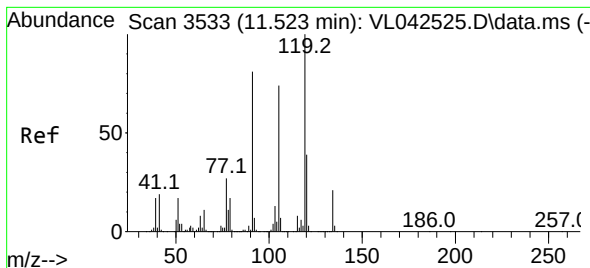
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#64
n-propylbenzene
Concen: 0.870 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. 0.006 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

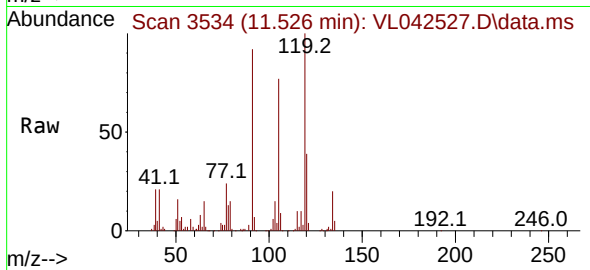
Tgt Ion:120 Resp: 10433
Ion Ratio Lower Upper
120 100
91 491.4 377.7 566.5





#65
tert-Butylbenzene
Concen: 0.878 ppbv
RT: 11.526 min Scan# 3534
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

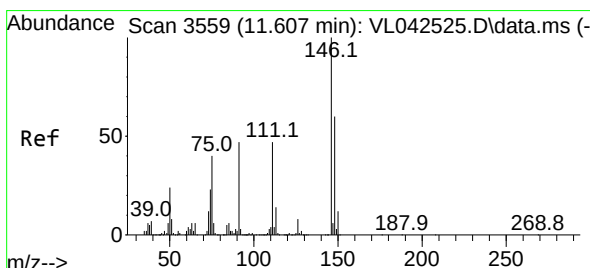
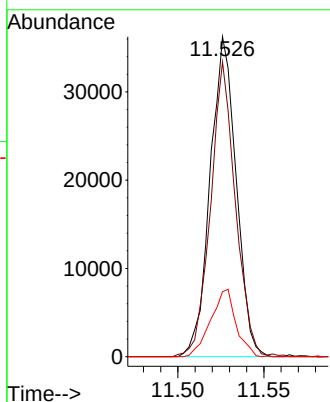
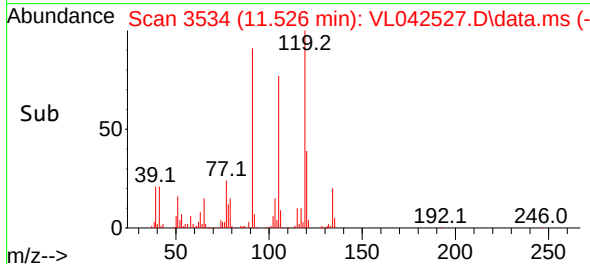
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



Tgt Ion: 119 Resp: 38170
Ion Ratio Lower Upper
119 100
91 87.9 66.6 99.8
134 20.5 16.3 24.5

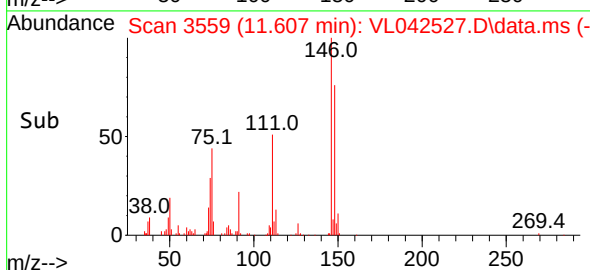
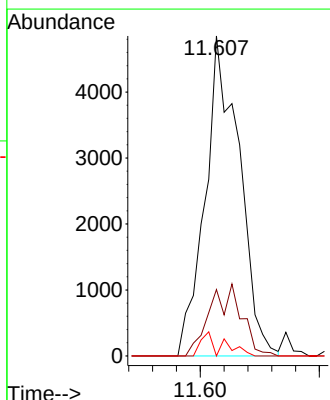
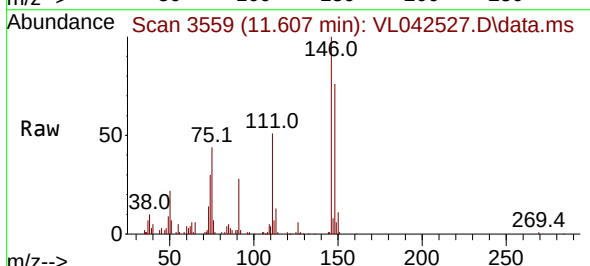
Manual Integrations
APPROVED

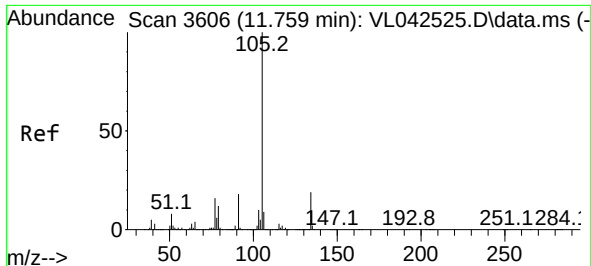
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#66
Benzyl Chloride
Concen: 0.839 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. -0.000 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

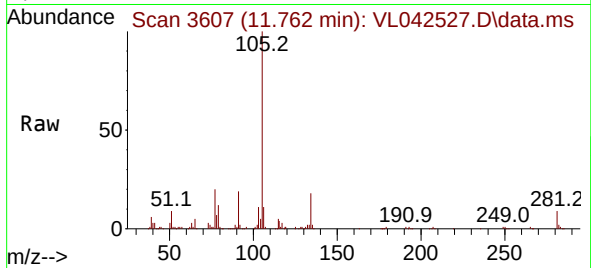
Tgt Ion: 91 Resp: 4826
Ion Ratio Lower Upper
91 100
126 21.0 13.7 20.5#
128 4.6 4.2 6.2





#67
 sec-Butylbenzene
 Concen: 0.909 ppbv
 RT: 11.762 min Scan# 3607
 Delta R.T. 0.003 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

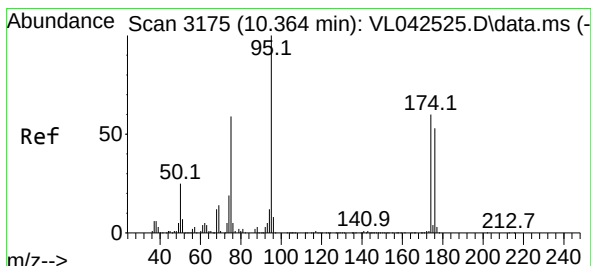
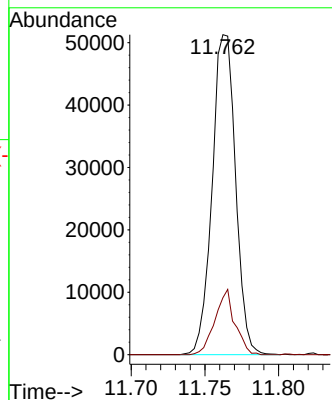
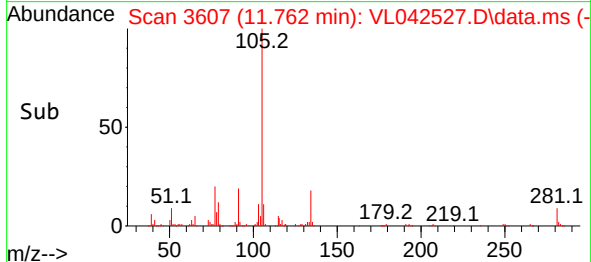
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001



Tgt Ion: 105 Resp: 5663
 Ion Ratio Lower Upper
 105 100
 134 17.2 14.9 22.3

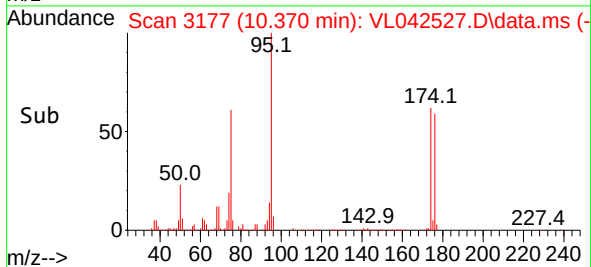
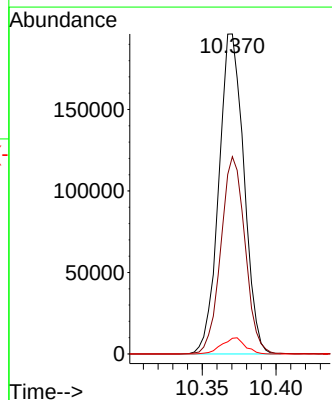
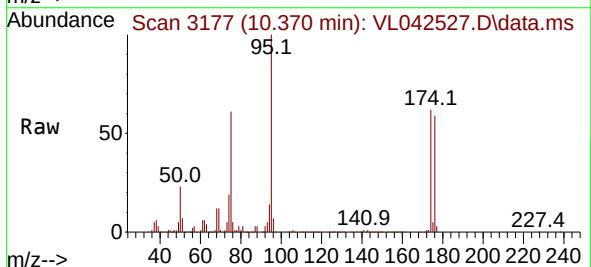
Manual Integrations
 APPROVED

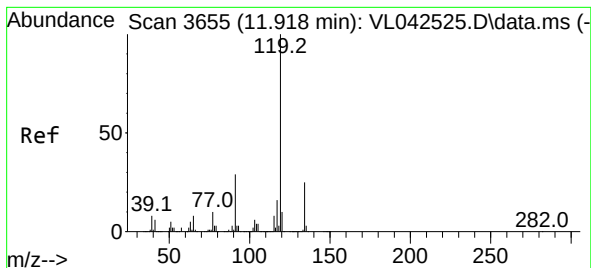
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.029 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. 0.006 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

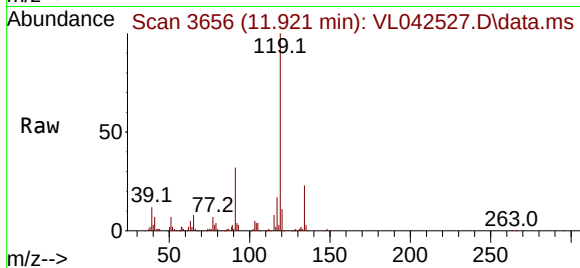
Tgt Ion: 95 Resp: 231970
 Ion Ratio Lower Upper
 95 100
 174 59.8 48.0 72.0
 175 4.7 3.5 5.3





#69
p-Isopropyltoluene
Concen: 0.867 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

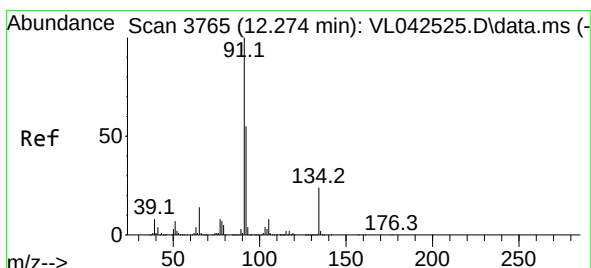
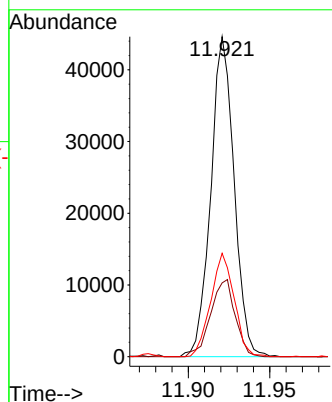
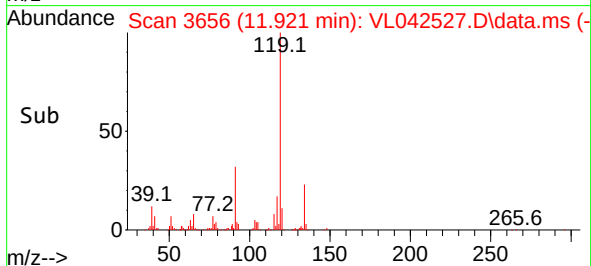
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



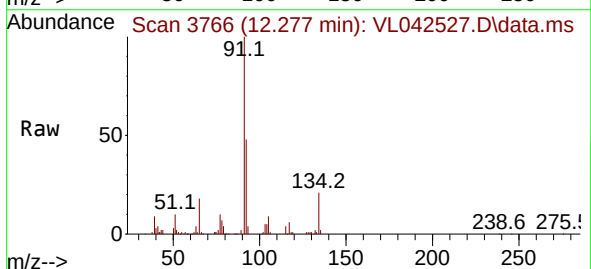
Tgt Ion: 119 Resp: 44400
Ion Ratio Lower Upper
119 100
134 25.4 19.8 29.6
91 32.5 23.6 35.4

Manual Integrations
APPROVED

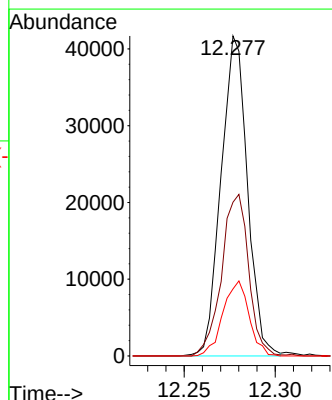
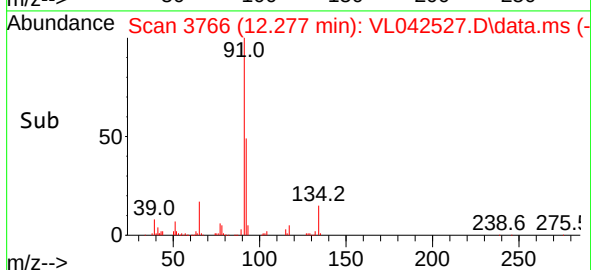
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

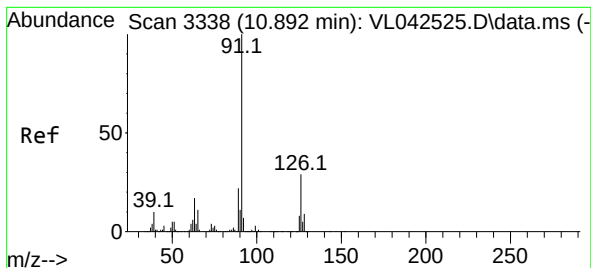


#70
n-Butylbenzene
Concen: 0.827 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07



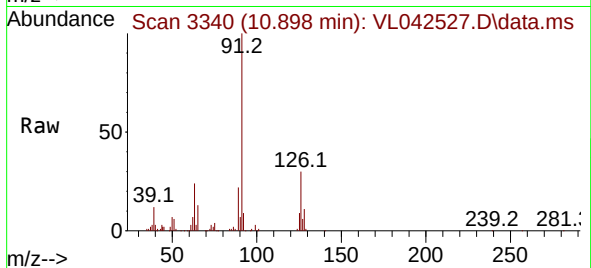
Tgt Ion: 91 Resp: 41878
Ion Ratio Lower Upper
91 100
92 52.0 43.7 65.5
134 23.2 18.9 28.3





#71
2-Chlorotoluene
Concen: 0.839 ppbv
RT: 10.898 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

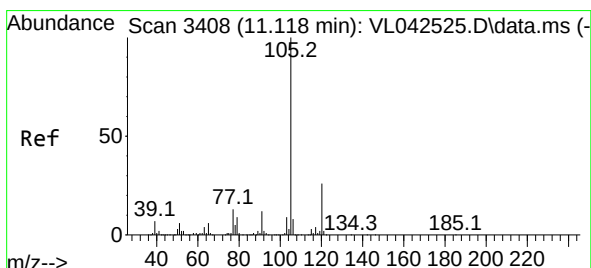
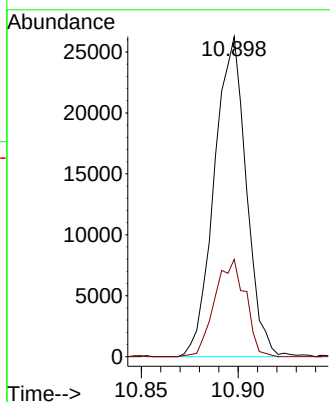
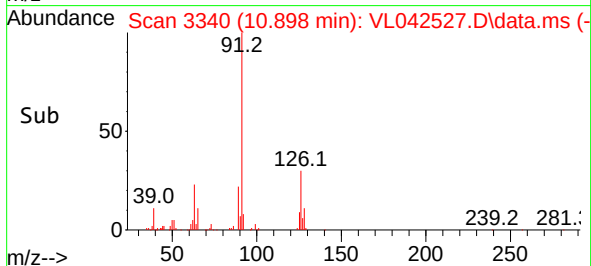
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



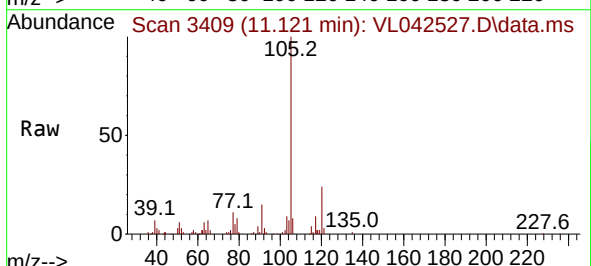
Tgt Ion: 91 Resp: 30070
Ion Ratio Lower Upper
91 100
126 29.3 11.4 45.6

Manual Integrations
APPROVED

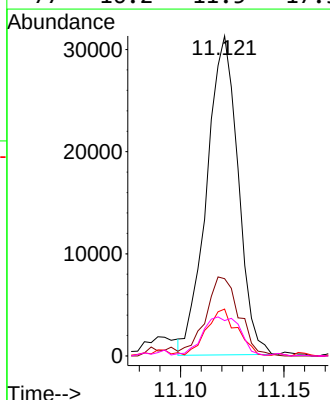
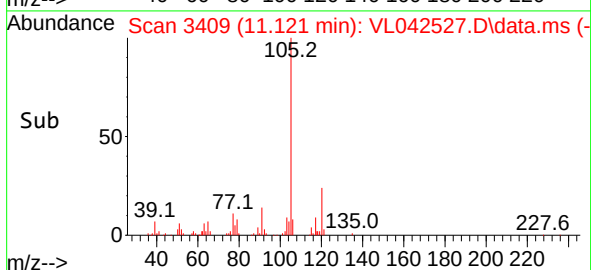
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

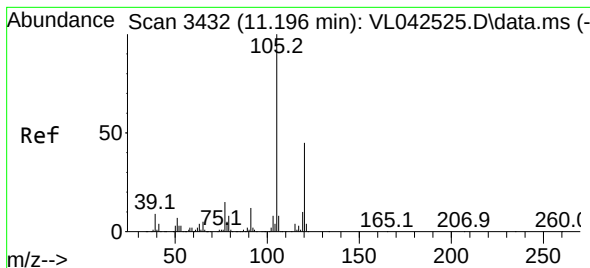


#72
4-Ethyltoluene
Concen: 0.847 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07



Tgt Ion:105 Resp: 33030
Ion Ratio Lower Upper
105 100
120 28.5 22.9 34.3
91 16.5 10.9 16.3#
77 16.2 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 0.867 ppbv

RT: 11.199 min Scan# 3432

Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 2944

Ion Ratio Lower Upper

105 100

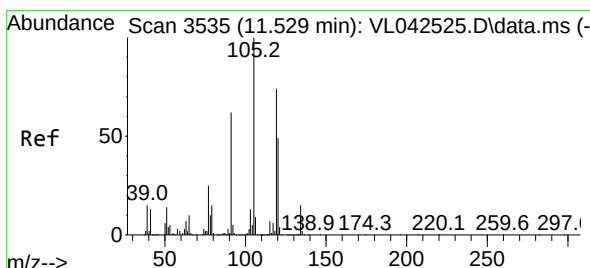
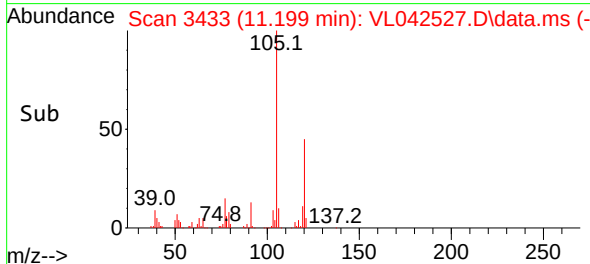
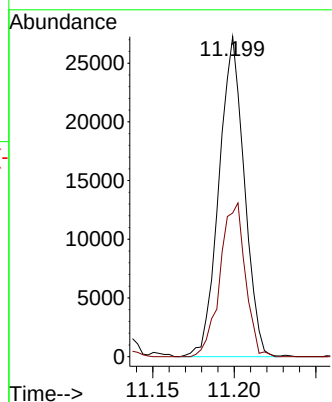
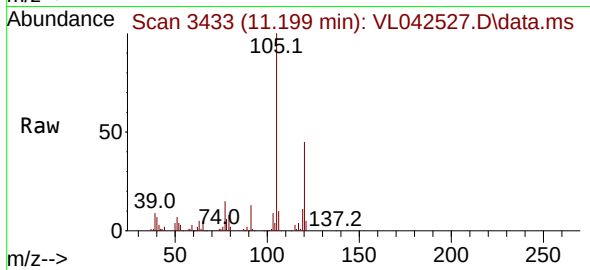
120 44.9 36.0 54.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.970 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. 0.003 min

Lab File: VL042527.D

Acq: 12 May 2025 10:07

Tgt Ion:105 Resp: 40544

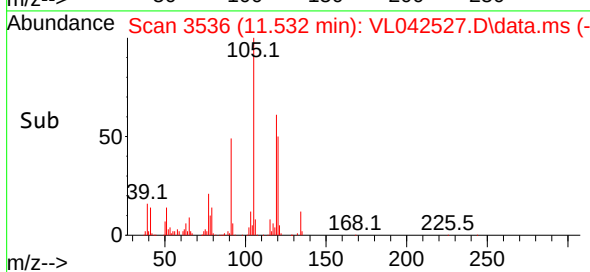
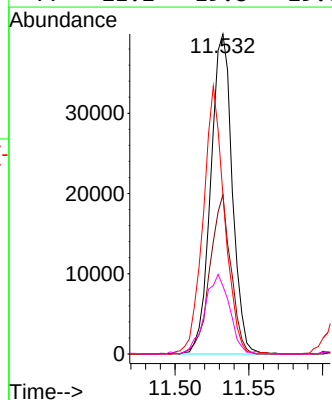
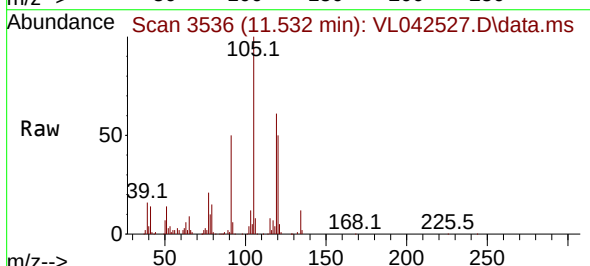
Ion Ratio Lower Upper

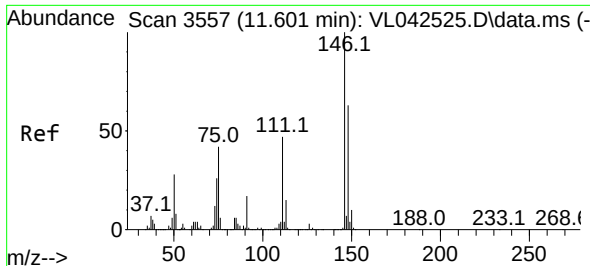
105 100

120 49.7 39.0 58.6

91 49.8 49.4 74.2

77 21.2 19.8 29.6





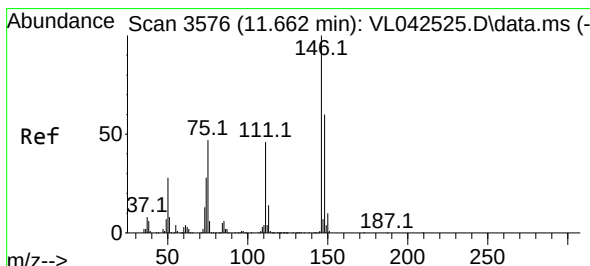
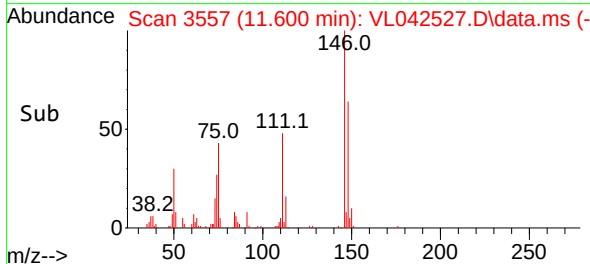
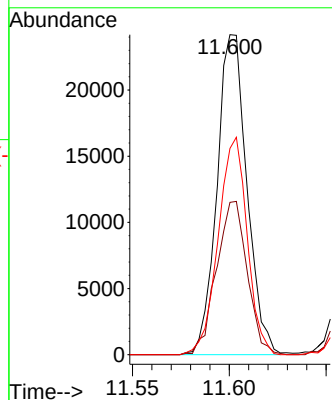
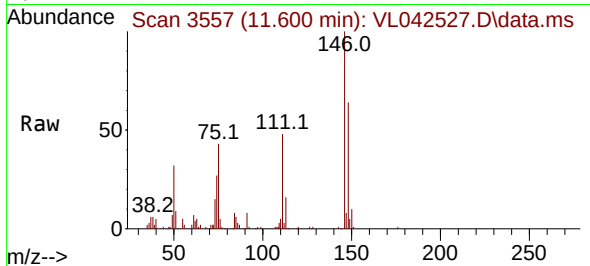
#75
1,3-Dichlorobenzene
Concen: 0.994 ppbv
RT: 11.600 min Scan# 3557
Delta R.T. -0.000 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

Instrument : MSVOA_L
ClientSampleId : VSTDIC001

Tgt Ion:146 Resp: 26018
Ion Ratio Lower Upper
146 100
111 49.3 23.6 71.0
148 65.6 31.6 94.8

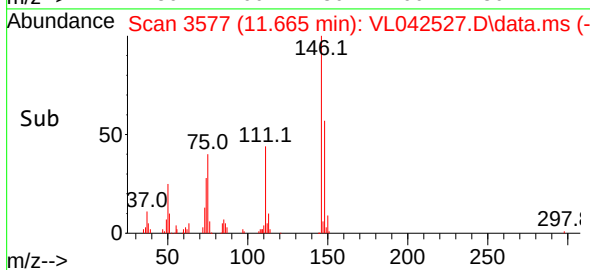
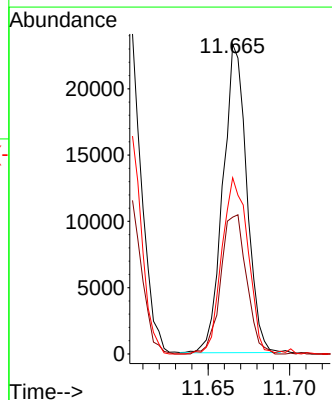
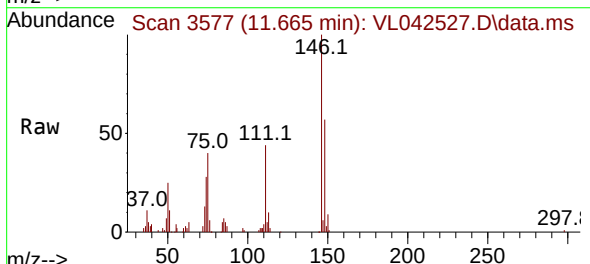
Manual Integrations
APPROVED

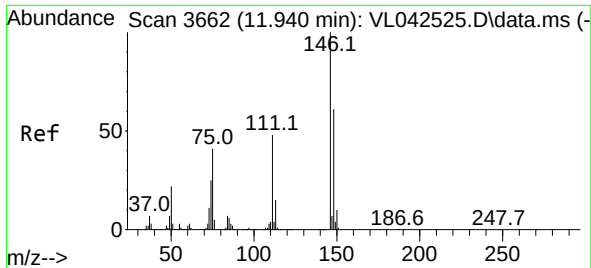
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#76
1,4-Dichlorobenzene
Concen: 0.947 ppbv
RT: 11.665 min Scan# 3577
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

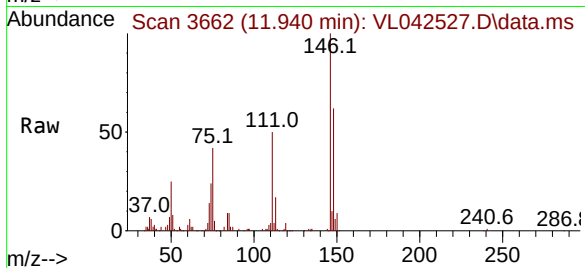
Tgt Ion:146 Resp: 23564
Ion Ratio Lower Upper
146 100
111 49.1 23.4 70.3
148 63.4 31.6 94.7





#77
1,2-Dichlorobenzene
Concen: 0.998 ppbv
RT: 11.940 min Scan# 3662
Delta R.T. -0.000 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

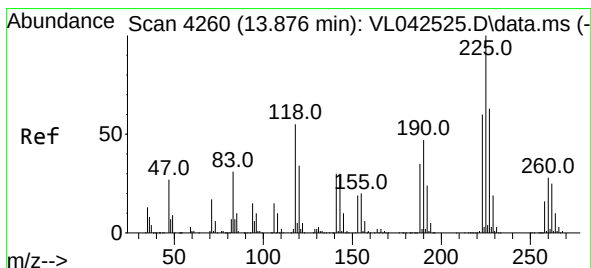
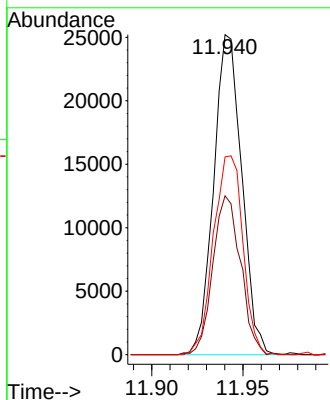
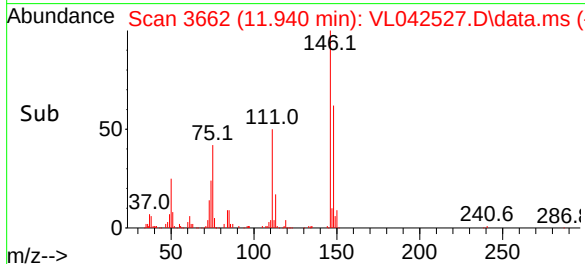
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



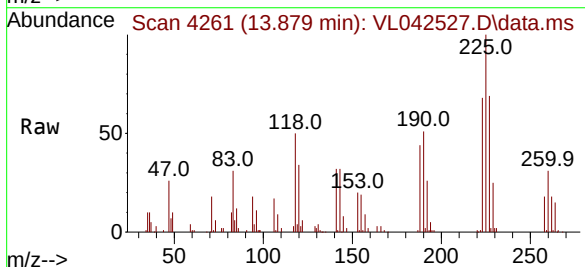
Tgt Ion:146 Resp: 26975
Ion Ratio Lower Upper
146 100
111 49.1 24.9 74.8
148 65.4 31.4 94.2

Manual Integrations
APPROVED

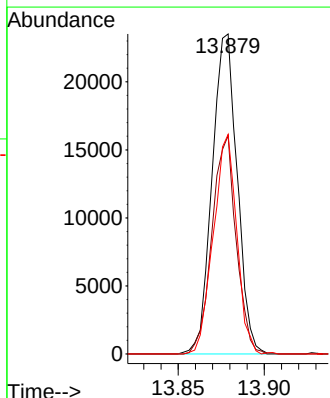
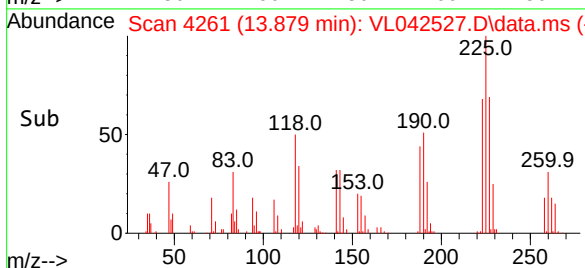
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

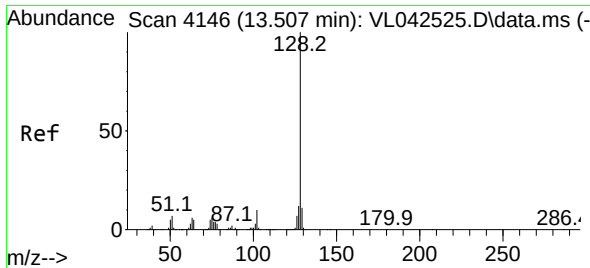


#78
Hexachloro-1,3-Butadiene
Concen: 1.028 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07



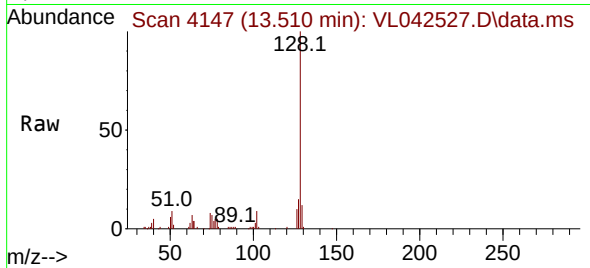
Tgt Ion:225 Resp: 23824
Ion Ratio Lower Upper
225 100
223 65.5 50.8 76.2
227 64.1 50.5 75.7





#79
Naphthalene
Concen: 0.846 ppbv
RT: 13.510 min Scan# 4146
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07

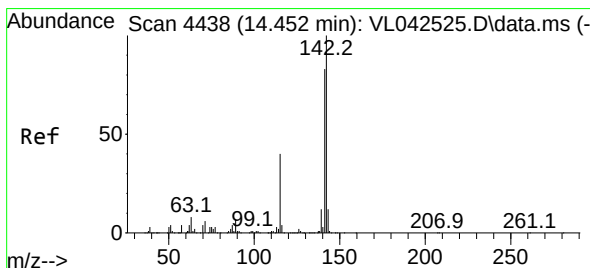
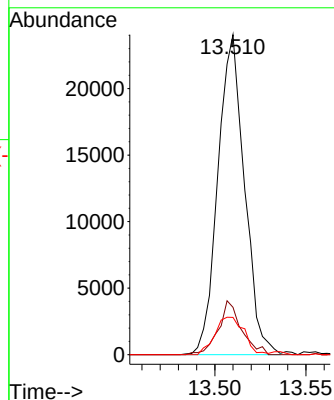
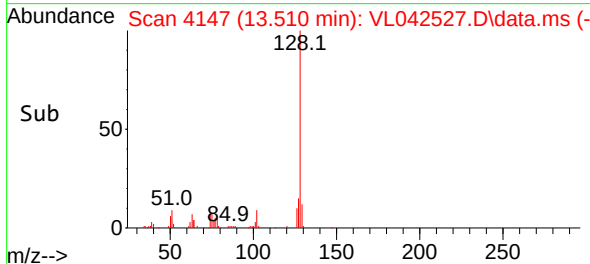
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



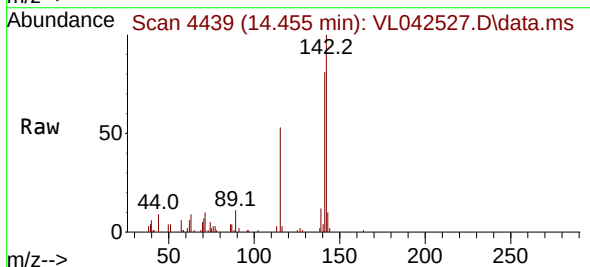
Tgt Ion:128 Resp: 24409
Ion Ratio Lower Upper
128 100
127 14.8 9.8 14.8
129 11.7 8.6 12.8

Manual Integrations
APPROVED

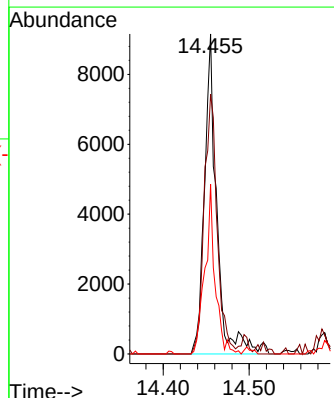
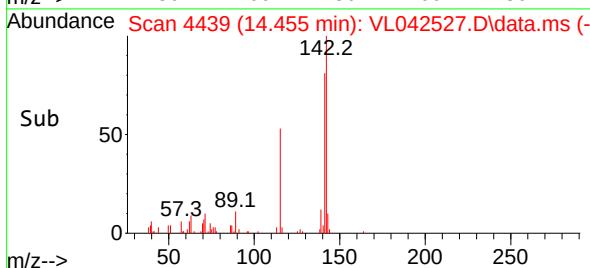
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

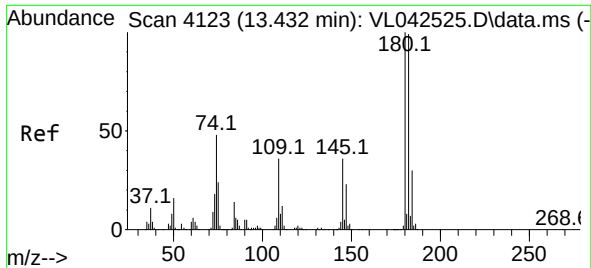


#80
Naphthalene,2-methyl-
Concen: 0.541 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.003 min
Lab File: VL042527.D
Acq: 12 May 2025 10:07



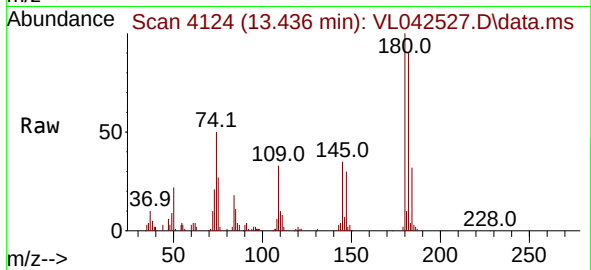
Tgt Ion:142 Resp: 9088
Ion Ratio Lower Upper
142 100
141 85.9 66.8 100.2
115 44.2 33.0 49.6





#81
 1,2,4-Trichlorobenzene
 Concen: 0.829 ppbv
 RT: 13.436 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042527.D
 Acq: 12 May 2025 10:07

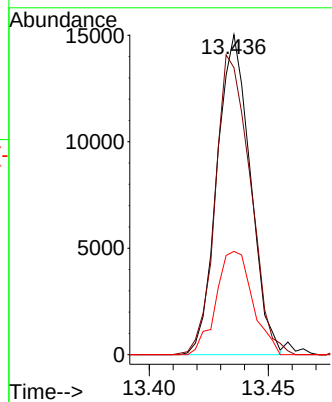
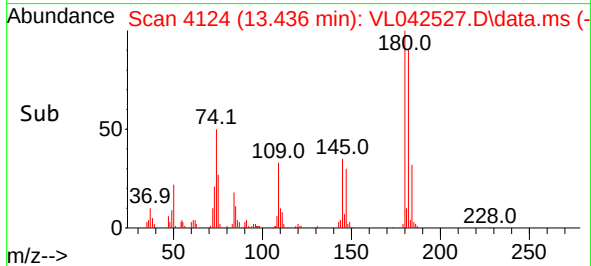
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion:180 Resp: 14600
 Ion Ratio Lower Upper
 180 100
 182 98.0 76.6 114.8
 184 35.3 24.6 36.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042528.D
 Acq On : 12 May 2025 10:41
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/14/2025
 Supervised By : Mahesh Dadoda 05/14/2025

Quant Time: May 12 23:47:58 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

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

QLast Update : Mon May 12 23:42:45 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.777	49	103645	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	291247	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	246447	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.367 95 217536 10.145 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.492	85	9514	0.565	ppbv	99
3) Chlorodifluoromethane	1.470	51	8566	0.499	ppbv	95
4) Chloromethane	1.528	50	3614	0.526	ppbv #	85
5) Vinyl Chloride	1.573	62	3669	0.522	ppbv	89
6) Bromomethane	1.661	94	1851	0.555	ppbv	88
7) Chloroethane	1.696	64	1420	0.513	ppbv #	78
8) Dichlorotetrafluoroethane	1.550	85	8379	0.579	ppbv	88
9) Propene	1.479	41	2647	0.711	ppbv #	1
10) Heptane	4.968	43	6139m	0.432	ppbv	
11) Trichlorofluoromethane	1.871	101	8790	0.543	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.130	101	7332	0.564	ppbv	98
13) Ethanol	1.719	45	696	0.684	ppbv	68
14) Bromoethene	1.774	108	2341	0.494	ppbv #	92
15) Acetone	1.832	43	10451m	0.631	ppbv	
16) 1,3-Butadiene	1.602	39	4136	0.555	ppbv	92
17) tert-Butyl alcohol	2.036	59	8145	0.532	ppbv	96
18) 1,1-Dichloroethene	2.026	96	3167m	0.556	ppbv	
19) Isopropyl Alcohol	1.881	45	5254	0.584	ppbv #	98
20) Methylene Chloride	2.055	84	3987	0.691	ppbv #	74
21) Allyl Chloride	2.091	41	5485	0.500	ppbv #	84
22) trans-1,2-Dichloroethene	2.334	96	3615	0.542	ppbv	95
23) Vinyl Acetate	2.453	43	9366	0.540	ppbv #	91
24) 1,1-Dichloroethane	2.402	63	6774	0.525	ppbv	99
25) Ethyl Acetate	2.832	43	13222m	0.455	ppbv	
26) Hexane	2.819	57	4939	0.414	ppbv #	78
27) Carbon Disulfide	2.143	76	7953	0.516	ppbv #	1
28) Methyl tert-Butyl Ether	2.434	73	3573	0.539	ppbv #	87
29) Chloroform	2.842	83	13265	0.536	ppbv	87
30) Cyclohexane	3.845	84	4336m	0.442	ppbv	
31) cis-1,2-Dichloroethene	2.712	61	6890	0.511	ppbv	89
32) 1,1,1-Trichloroethane	3.353	97	12360	0.495	ppbv	95
34) 2-Butanone	2.554	43	9997	0.521	ppbv	93
35) Carbon Tetrachloride	3.748	117	12876m	0.492	ppbv	
36) Benzene	3.645	78	12733	0.493	ppbv #	94
37) 1,2-Dichloroethane	3.208	62	9449	0.513	ppbv	98
38) Trichloroethene	4.528	130	4849m	0.440	ppbv	
39) 1,2-Dichloropropane	4.305	63	5033m	0.524	ppbv	
40) 1,4-Dioxane	4.599	88	2013m	0.526	ppbv	
41) Tetrahydrofuran	3.052	42	3180m	0.384	ppbv	
42) Bromodichloromethane	4.470	83	12586m	0.513	ppbv	
43) Methyl Methacrylate	4.871	69	3499m	0.406	ppbv	
44) 2,2,4-Trimethylpentane	4.625	57	17528m	0.432	ppbv	
45) t-1,3-Dichloropropene	6.389	75	4770m	0.433	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042528.D
 Acq On : 12 May 2025 10:41
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

Quant Time: May 12 23:47:58 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

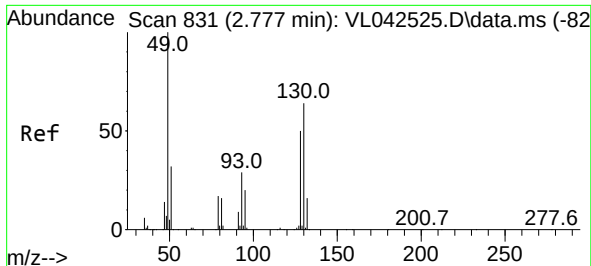
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Mon May 12 23:42:45 2025

Response via : Initial Calibration

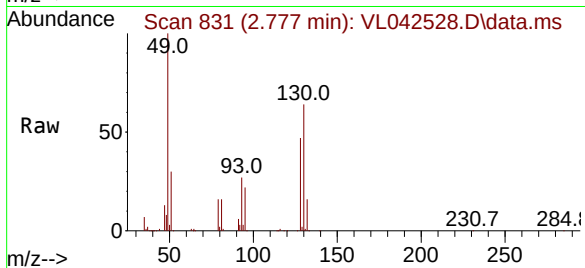
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.580	75	5788m	0.436	ppbv	
47) 1,1,2-Trichloroethane	6.564	97	6332m	0.560	ppbv	
48) Dibromochloromethane	7.370	129	8855m	0.468	ppbv	
49) Bromoform	9.474	173	7130	0.460	ppbv	98
50) 4-Methyl-2-Pentanone	5.755	43	9040m	0.402	ppbv	
51) 2-Hexanone	7.428	43	5937m	0.355	ppbv	
52) Tetrachloroethene	8.208	164	4752m	0.478	ppbv	
53) Toluene	6.920	91	10479m	0.414	ppbv	
54) 1,2-Dibromoethane	7.635	107	8089m	0.489	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.917	131	8150	0.533	ppbv #	1
57) Chlorobenzene	8.907	112	12888	0.521	ppbv #	94
58) Ethyl Benzene	9.348	91	12895	0.384	ppbv	100
59) m/p-Xylene	9.519	91	21373m	0.715	ppbv	
60) o-Xylene	9.950	91	9922m	0.341	ppbv	
61) Styrene	9.859	104	3669m	0.342	ppbv	
62) Isopropylbenzene	10.532	105	16603	0.378	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.956	83	11693	0.501	ppbv	99
64) n-propylbenzene	10.985	120	3813m	0.343	ppbv	
65) tert-Butylbenzene	11.523	119	13867	0.344	ppbv #	95
66) Benzyl Chloride	11.603	91	2476m	0.464	ppbv	
67) sec-Butylbenzene	11.762	105	21235	0.368	ppbv	100
69) p-Isopropyltoluene	11.917	119	15071	0.317	ppbv #	90
70) n-Butylbenzene	12.277	91	15321	0.326	ppbv	95
71) 2-Chlorotoluene	10.895	91	13426	0.404	ppbv	94
72) 4-Ethyltoluene	11.115	105	12284	0.340	ppbv #	93
73) 1,3,5-Trimethylbenzene	11.199	105	10773m	0.342	ppbv	
74) 1,2,4-Trimethylbenzene	11.529	105	13113	0.339	ppbv	96
75) 1,3-Dichlorobenzene	11.600	146	10683	0.440	ppbv	94
76) 1,4-Dichlorobenzene	11.662	146	9591	0.416	ppbv	98
77) 1,2-Dichlorobenzene	11.940	146	12272	0.490	ppbv	99
78) Hexachloro-1,3-Butadiene	13.876	225	11535	0.537	ppbv	96
79) Naphthalene	13.503	128	8133	0.304	ppbv #	92
80) Naphthalene,2-methyl-	14.448	142	2920	0.188	ppbv #	90
81) 1,2,4-Trichlorobenzene	13.435	180	5016	0.307	ppbv	96

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 831
Delta R.T. 0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

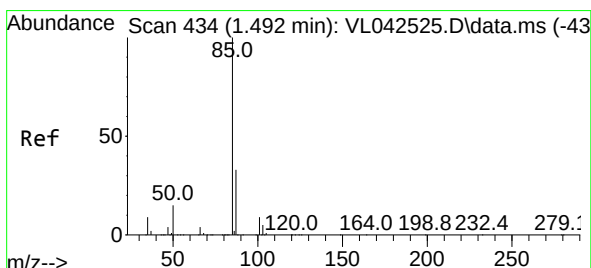
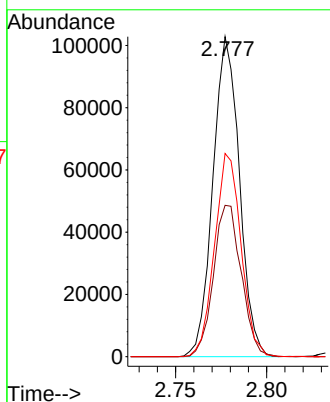
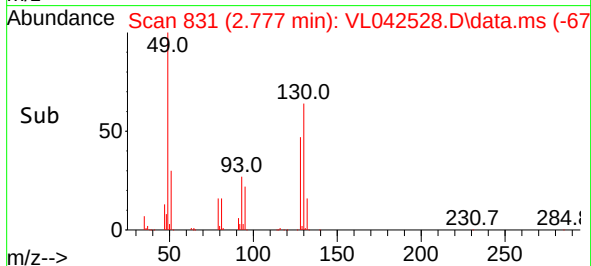
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 49 Resp: 103649
Ion Ratio Lower Upper
49 100
128 49.7 24.9 74.6
130 63.7 32.5 97.5

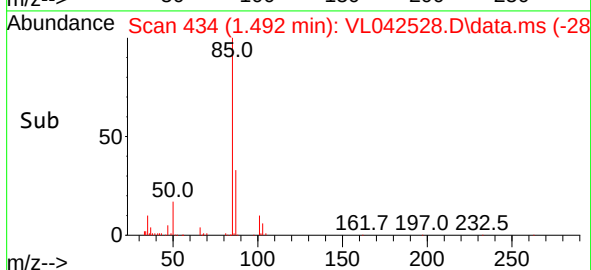
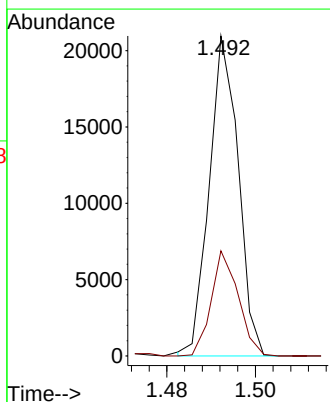
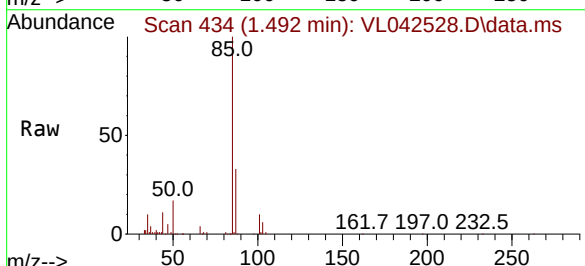
Manual Integrations
APPROVED

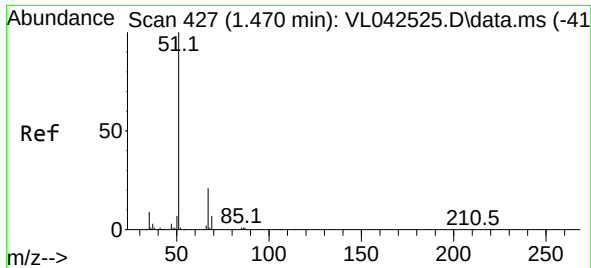
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#2
Dichlorodifluoromethane
Concen: 0.565 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion: 85 Resp: 9514
Ion Ratio Lower Upper
85 100
87 32.9 26.8 40.2





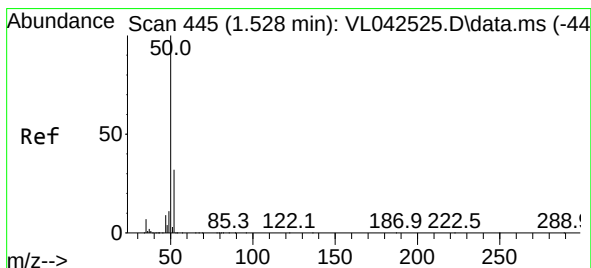
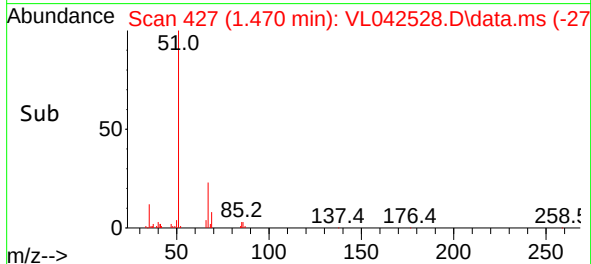
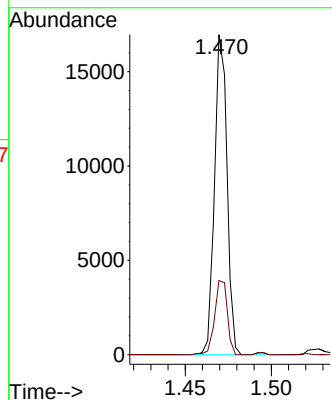
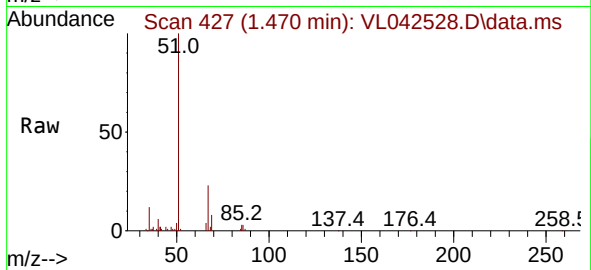
#3
Chlorodifluoromethane
Concen: 0.499 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 51 Resp: 8560
Ion Ratio Lower Upper
51 100
67 23.9 17.4 26.0

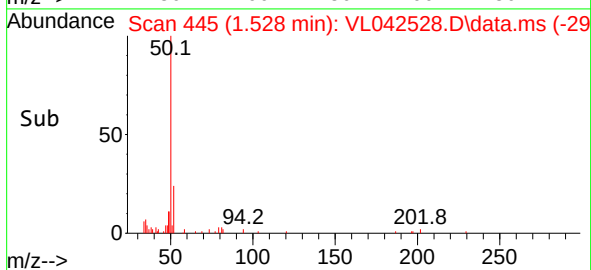
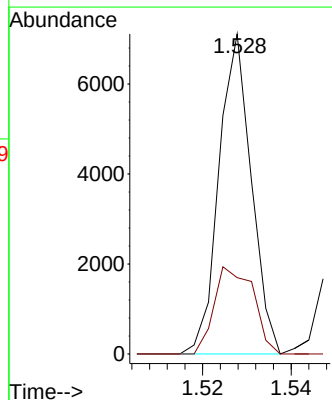
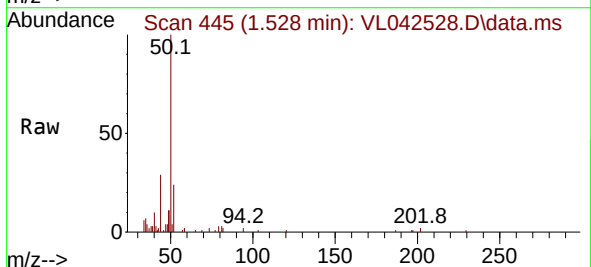
Manual Integrations
APPROVED

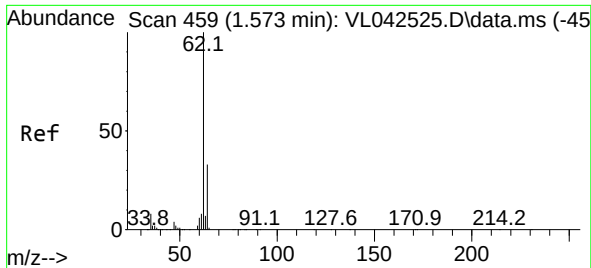
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#4
Chloromethane
Concen: 0.526 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

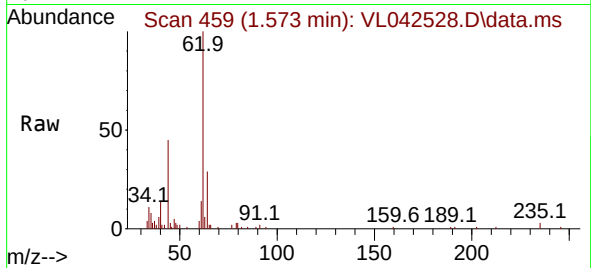
Tgt Ion: 50 Resp: 3614
Ion Ratio Lower Upper
50 100
52 23.9 25.9 38.9#





#5
 Vinyl Chloride
 Concen: 0.522 ppbv
 RT: 1.573 min Scan# 459
 Delta R.T. -0.000 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

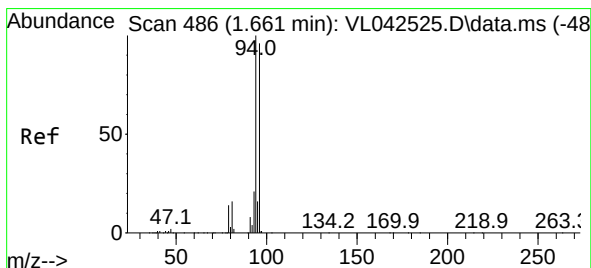
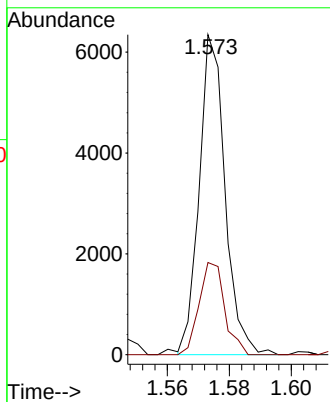
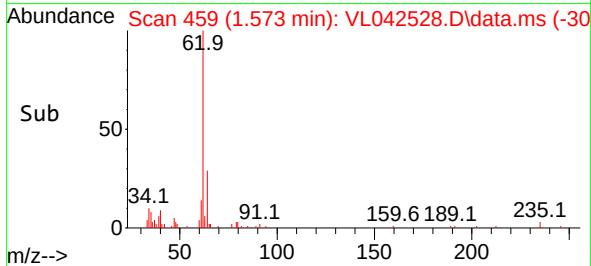
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



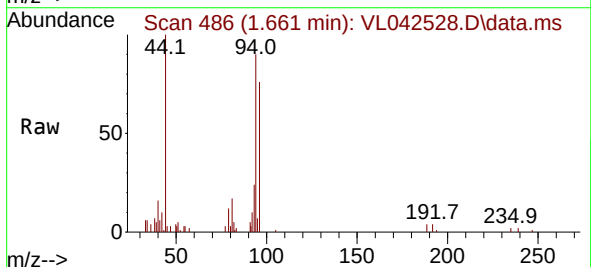
Tgt Ion: 62 Resp: 3669
 Ion Ratio Lower Upper
 62 100
 64 27.1 26.5 39.7

Manual Integrations
 APPROVED

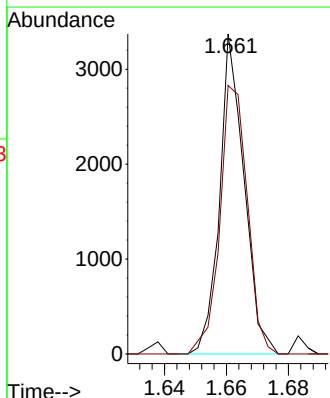
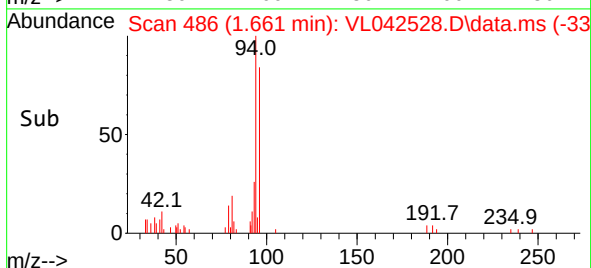
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

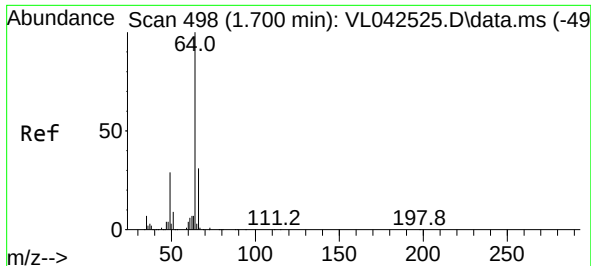


#6
 Bromomethane
 Concen: 0.555 ppbv
 RT: 1.661 min Scan# 486
 Delta R.T. -0.000 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41



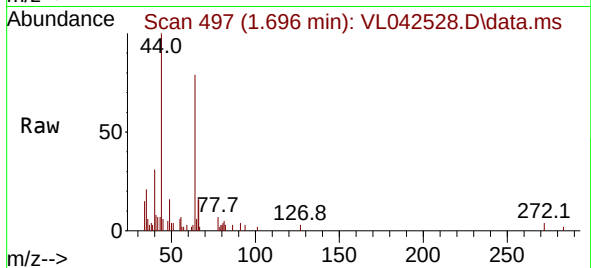
Tgt Ion: 94 Resp: 1851
 Ion Ratio Lower Upper
 94 100
 96 83.9 76.9 115.3





#7
Chloroethane
Concen: 0.513 ppbv
RT: 1.696 min Scan# 498
Delta R.T. -0.004 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

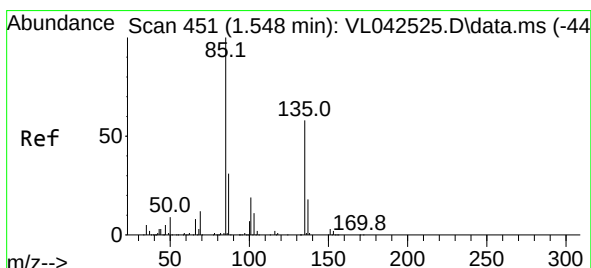
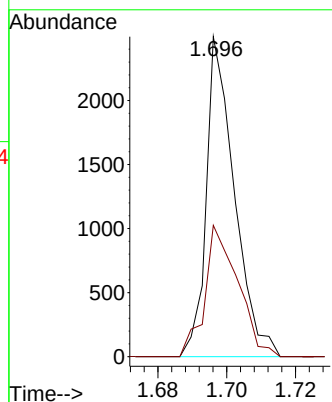
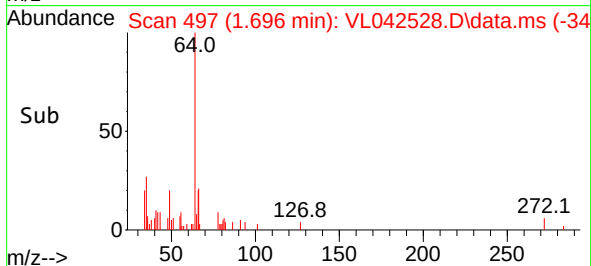
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



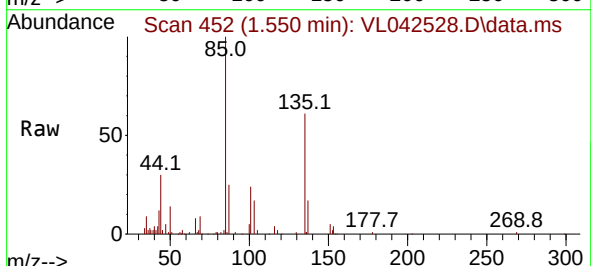
Tgt Ion: 64 Resp: 1420
Ion Ratio Lower Upper
64 100
66 43.6 25.1 37.7

Manual Integrations
APPROVED

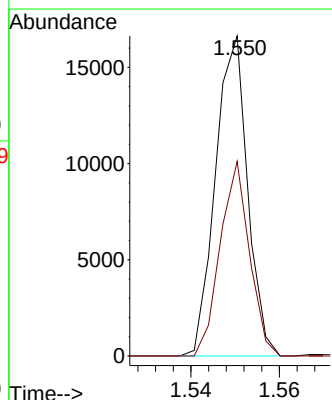
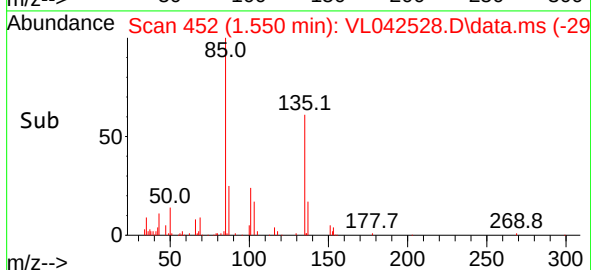
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

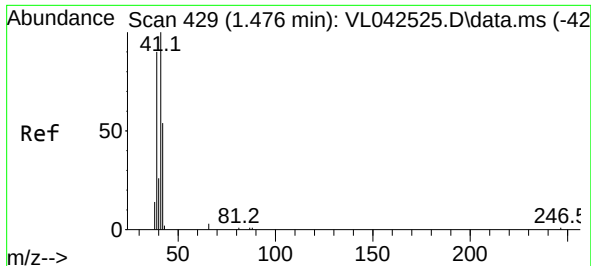


#8
Dichlorotetrafluoroethane
Concen: 0.579 ppbv
RT: 1.550 min Scan# 452
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41



Tgt Ion: 85 Resp: 8379
Ion Ratio Lower Upper
85 100
135 55.5 51.8 77.8





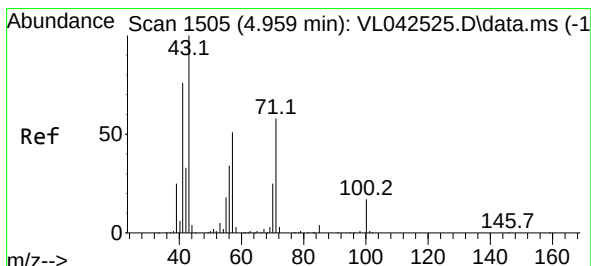
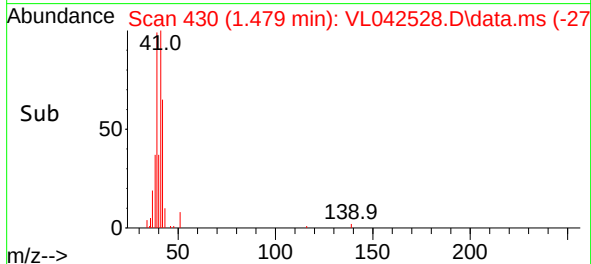
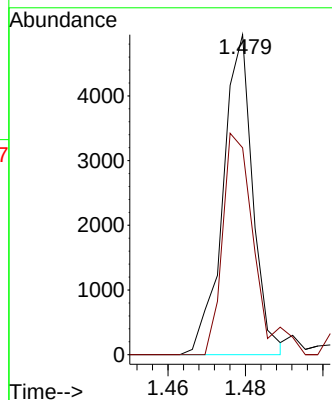
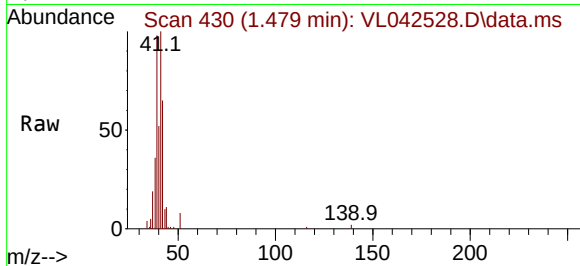
#9
 Propene
 Concen: 0.711 ppbv
 RT: 1.479 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 41 Resp: 264
 Ion Ratio Lower Upper
 41 100
 42 88.5 4.1 6.1

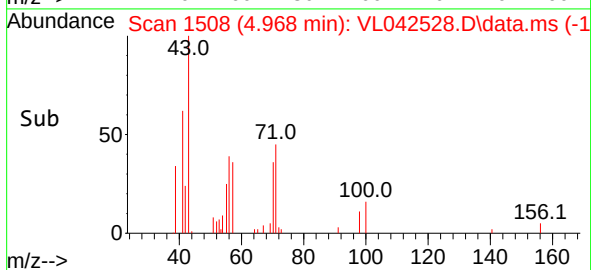
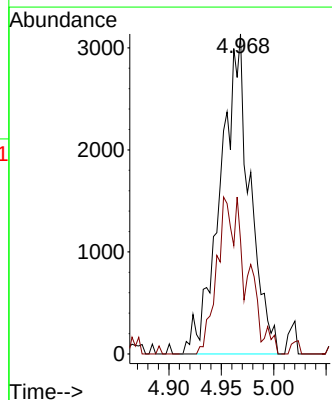
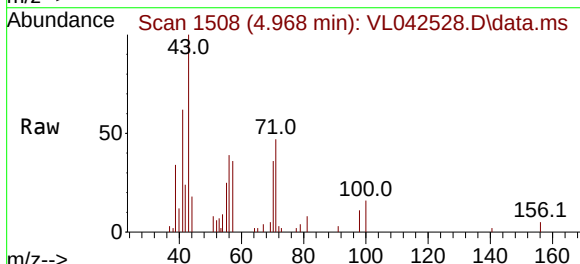
Manual Integrations
 APPROVED

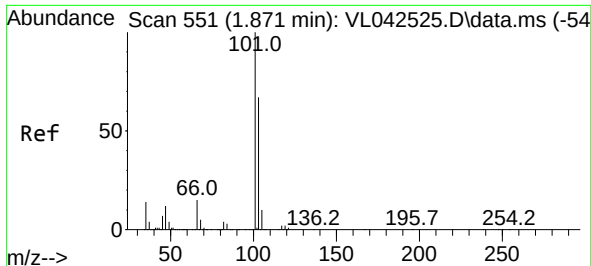
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#10
 Heptane
 Concen: 0.432 ppbv m
 RT: 4.968 min Scan# 1508
 Delta R.T. 0.009 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

Tgt Ion: 43 Resp: 6139
 Ion Ratio Lower Upper
 43 100
 57 49.0 42.1 63.1





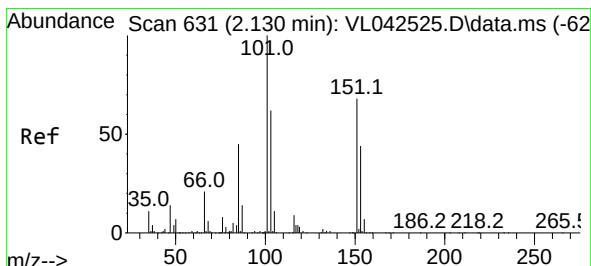
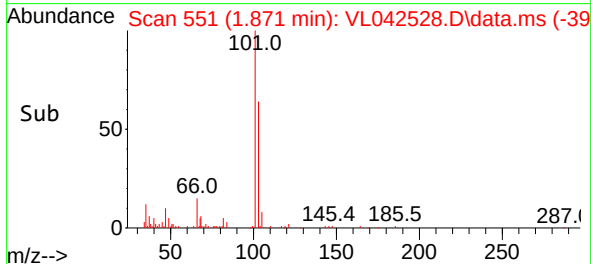
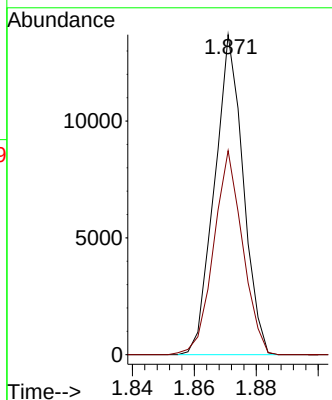
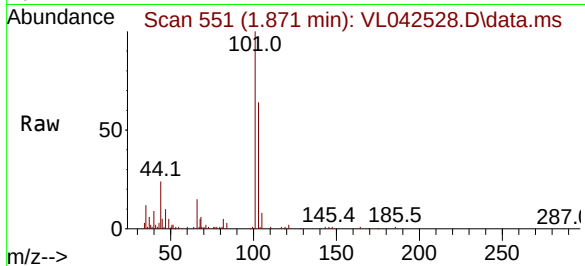
#11
Trichlorofluoromethane
Concen: 0.543 ppbv
RT: 1.871 min Scan# 551
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:101 Resp: 8790
Ion Ratio Lower Upper
101 100
103 63.8 53.8 80.6

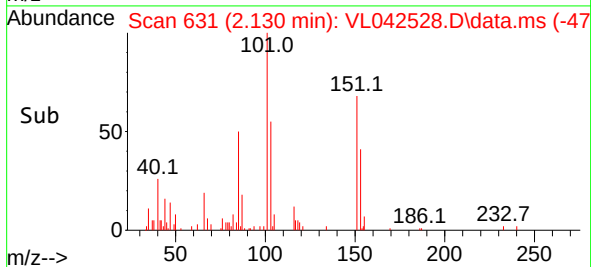
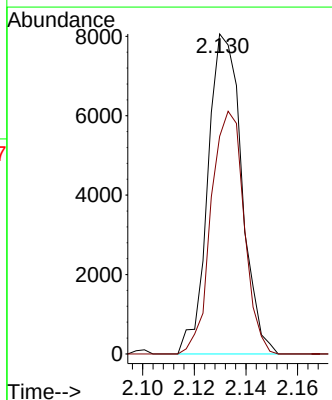
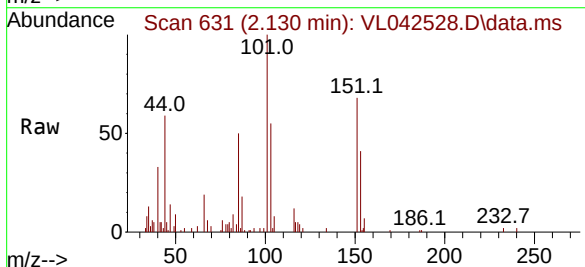
Manual Integrations
APPROVED

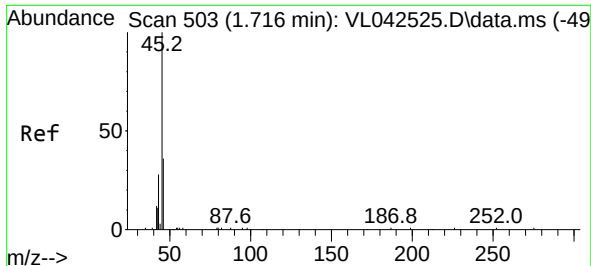
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.564 ppbv
RT: 2.130 min Scan# 631
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

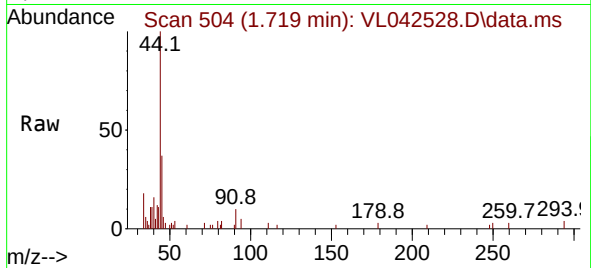
Tgt Ion:101 Resp: 7332
Ion Ratio Lower Upper
101 100
151 73.7 57.8 86.8





#13
Ethanol
Concen: 0.684 ppbv
RT: 1.719 min Scan# 503
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

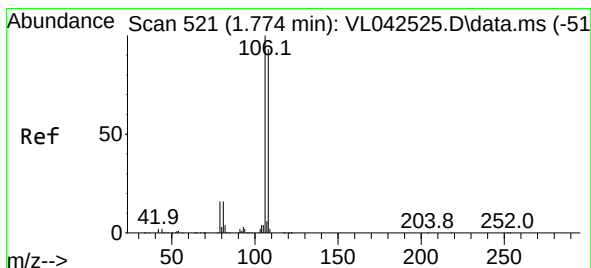
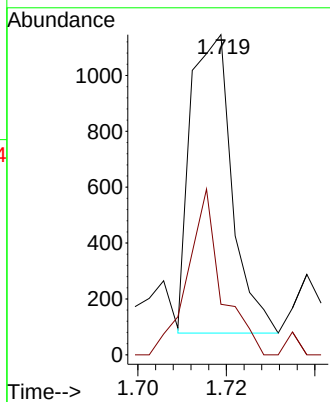
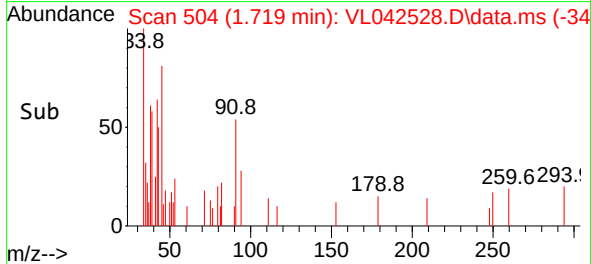
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



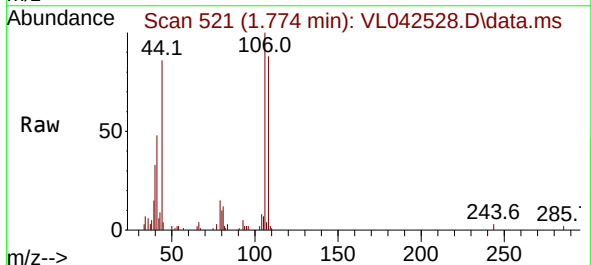
Tgt Ion: 45 Resp: 690
Ion Ratio Lower Upper
45 100
46 56.3 14.8 59.4

Manual Integrations
APPROVED

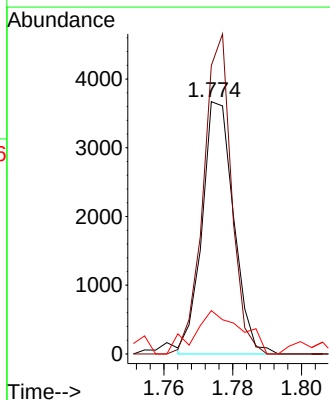
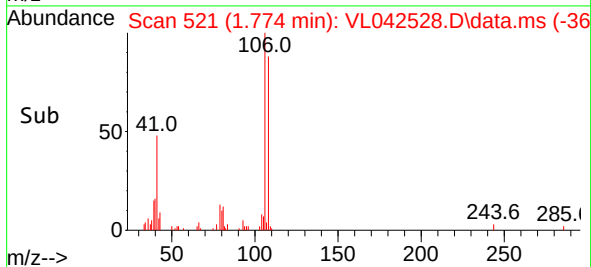
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

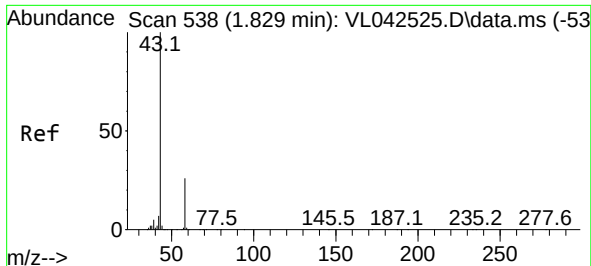


#14
Bromoethene
Concen: 0.494 ppbv
RT: 1.774 min Scan# 521
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41



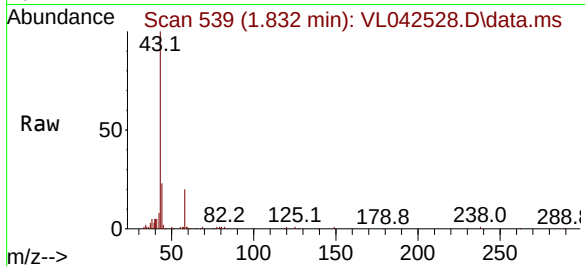
Tgt Ion:108 Resp: 2341
Ion Ratio Lower Upper
108 100
106 112.1 87.4 131.2
79 37.6 15.1 22.7#





#15
Acetone
Concen: 0.631 ppbv m
RT: 1.832 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

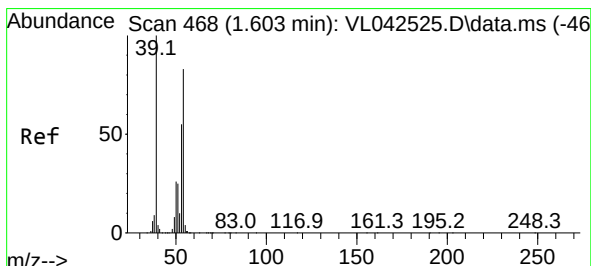
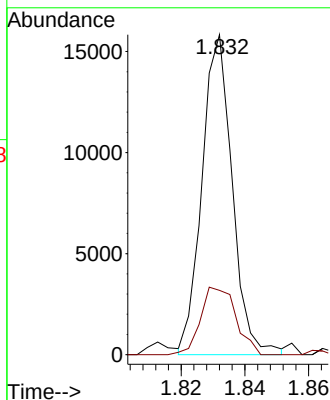
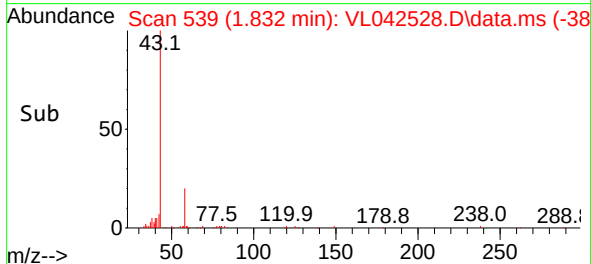
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



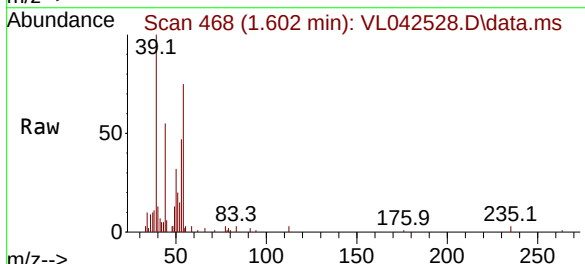
Tgt Ion: 43 Resp: 1045
Ion Ratio Lower Upper
43 100
58 24.9 21.3 31.9

Manual Integrations
APPROVED

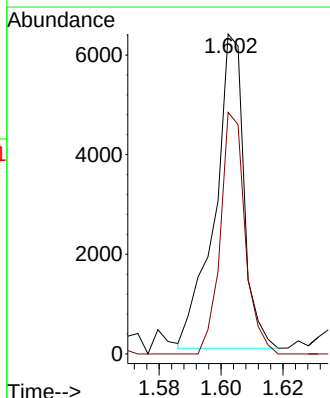
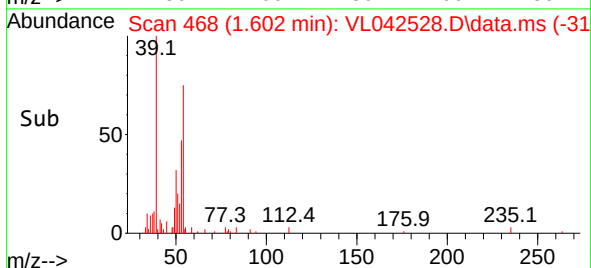
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

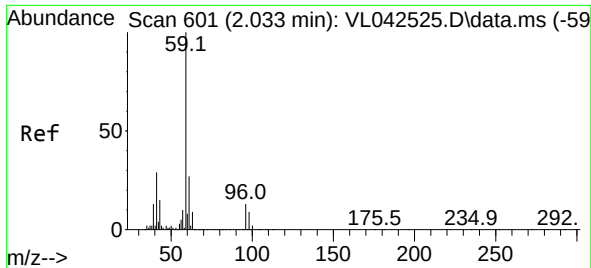


#16
1,3-Butadiene
Concen: 0.555 ppbv
RT: 1.602 min Scan# 468
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41



Tgt Ion: 39 Resp: 4136
Ion Ratio Lower Upper
39 100
54 65.5 57.8 86.6





#17

tert-Butyl alcohol

Concen: 0.532 ppbv

RT: 2.036 min Scan# 601

Delta R.T. 0.003 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 59 Resp: 814

Ion Ratio Lower Upper

59 100

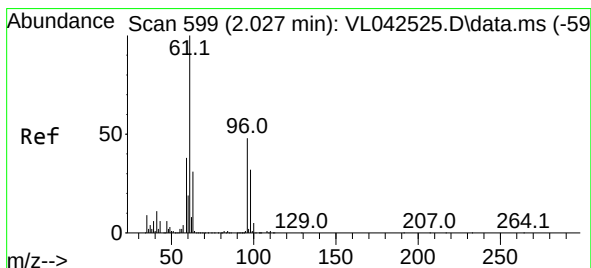
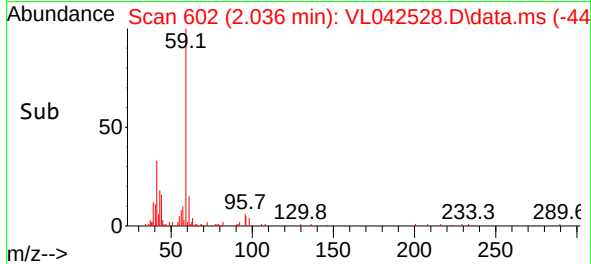
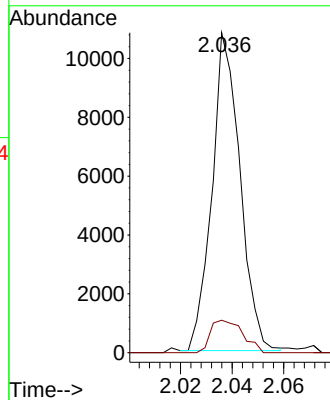
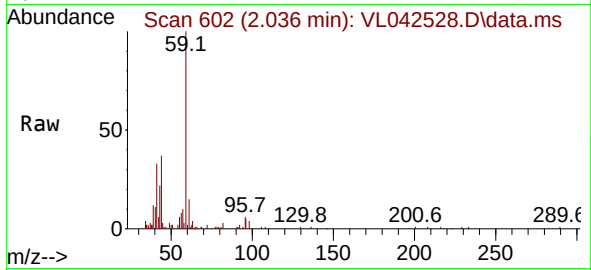
57 11.8 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#18

1,1-Dichloroethene

Concen: 0.556 ppbv m

RT: 2.026 min Scan# 599

Delta R.T. -0.000 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

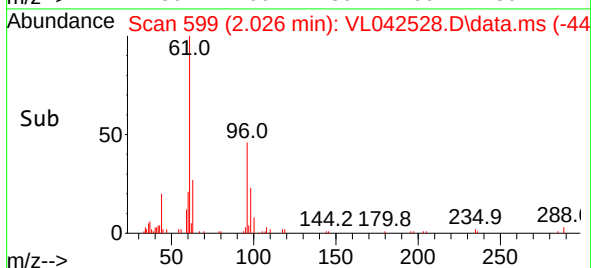
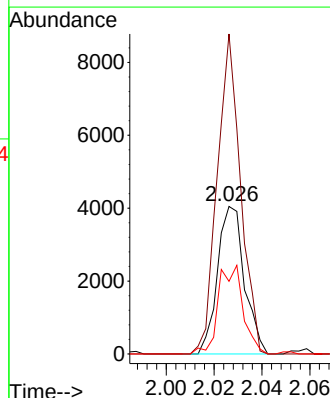
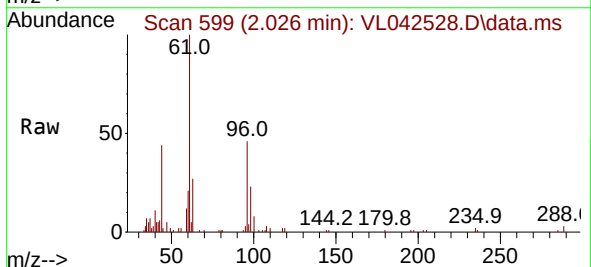
Tgt Ion: 96 Resp: 3167

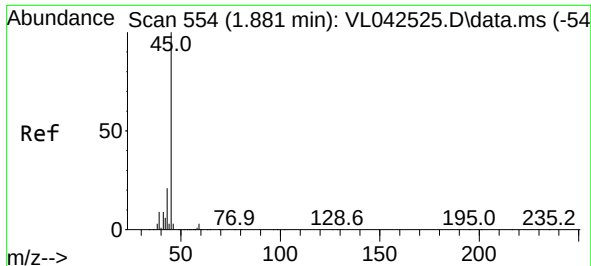
Ion Ratio Lower Upper

96 100

61 216.8 165.0 247.4

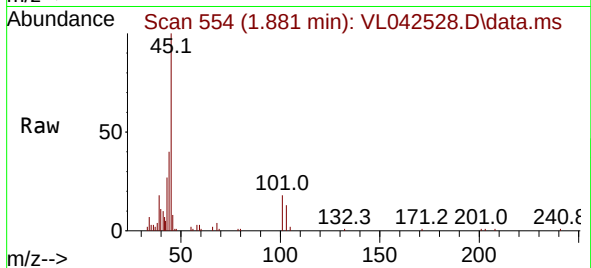
98 49.3 52.6 79.0#





#19
Isopropyl Alcohol
Concen: 0.584 ppbv
RT: 1.881 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

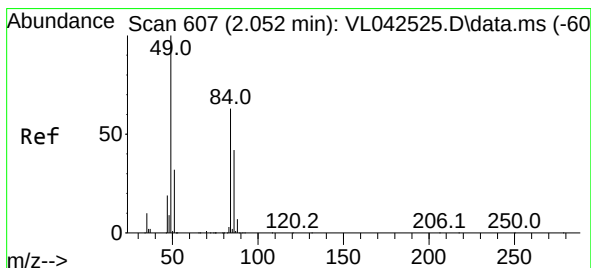
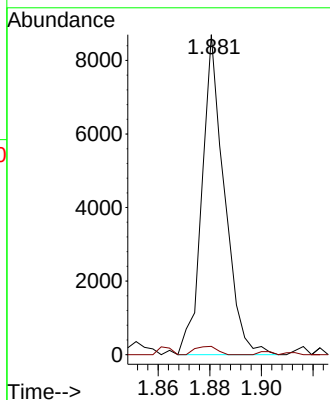
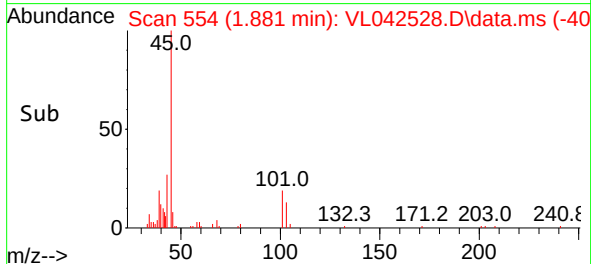
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 45 Resp: 5254
Ion Ratio Lower Upper
45 100
58 2.6 1.5 2.3

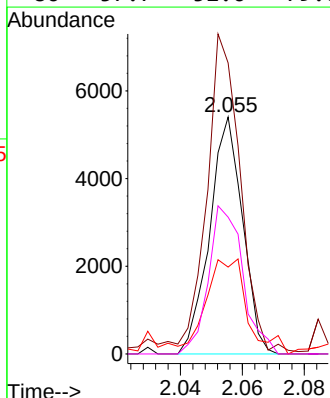
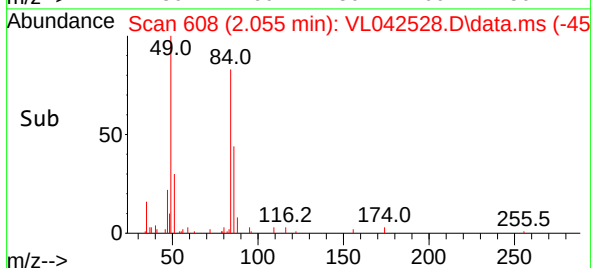
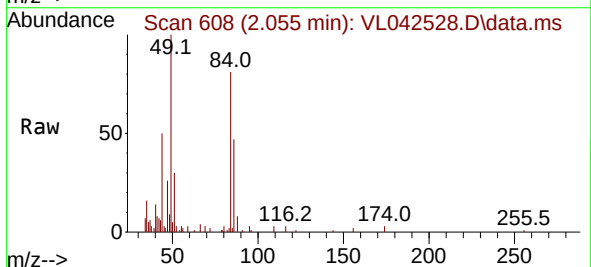
Manual Integrations
APPROVED

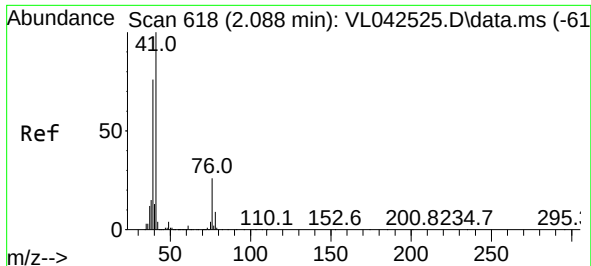
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#20
Methylene Chloride
Concen: 0.691 ppbv
RT: 2.055 min Scan# 608
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion: 84 Resp: 3987
Ion Ratio Lower Upper
84 100
49 118.7 128.2 192.4#
51 33.4 41.7 62.5#
86 57.7 52.6 79.0





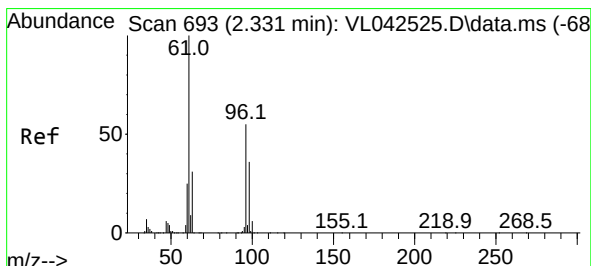
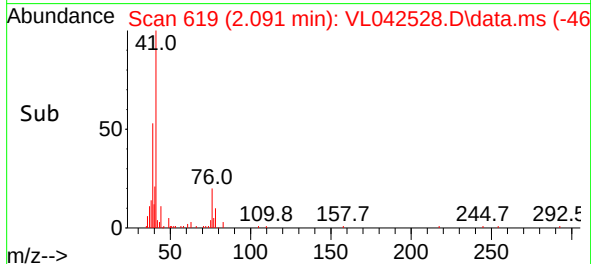
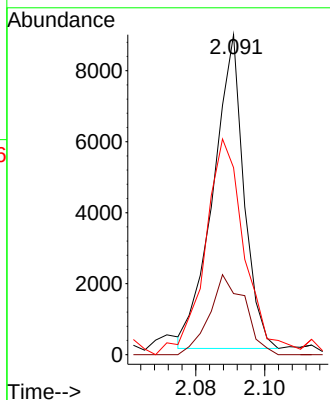
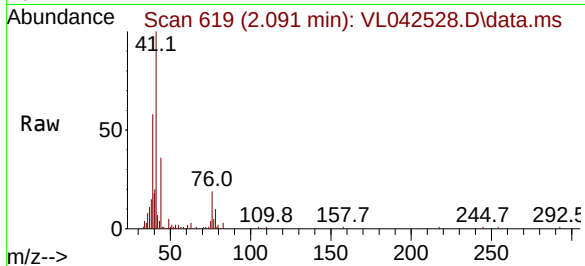
#21
 Allyl Chloride
 Concen: 0.500 ppbv
 RT: 2.091 min Scan# 618
 Delta R.T. 0.003 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 41 Resp: 548
 Ion Ratio Lower Upper
 41 100
 76 29.4 22.0 33.0
 39 91.8 59.5 89.3

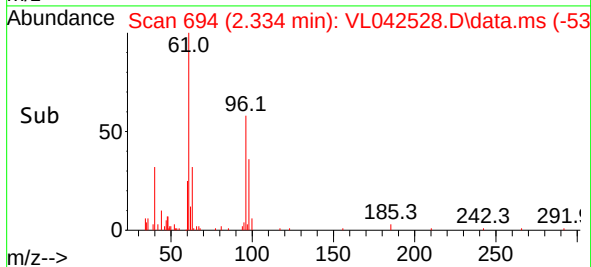
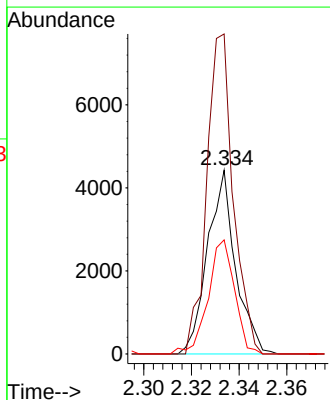
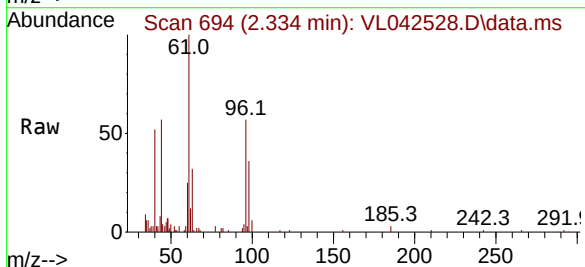
Manual Integrations
 APPROVED

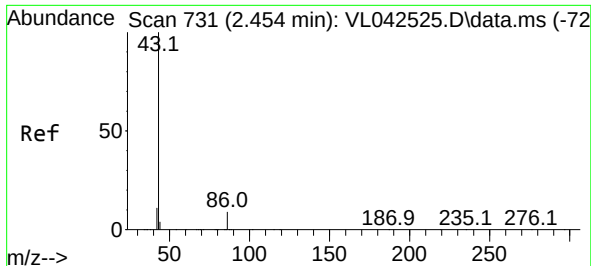
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#22
 trans-1,2-Dichloroethene
 Concen: 0.542 ppbv
 RT: 2.334 min Scan# 694
 Delta R.T. 0.003 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

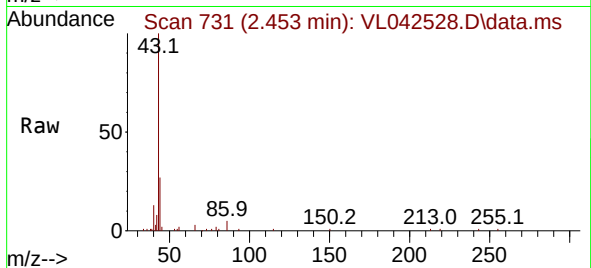
Tgt Ion: 96 Resp: 3615
 Ion Ratio Lower Upper
 96 100
 61 174.1 145.9 218.9
 98 62.1 52.2 78.4





#23
 Vinyl Acetate
 Concen: 0.540 ppbv
 RT: 2.453 min Scan# 715
 Delta R.T. -0.000 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

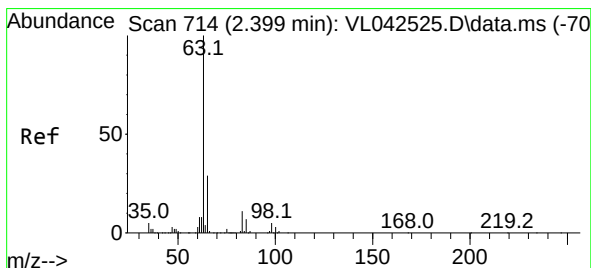
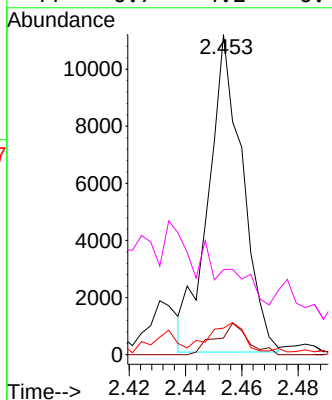
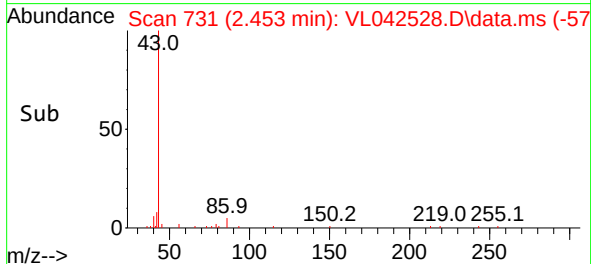
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



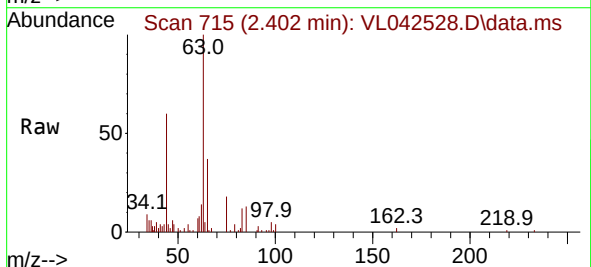
Tgt Ion:	43	Resp:	9360
Ion	Ratio	Lower	Upper
43	100		
86	5.3	6.8	10.2
42	6.5	8.8	13.2
44	6.7	4.2	6.4

Manual Integrations
 APPROVED

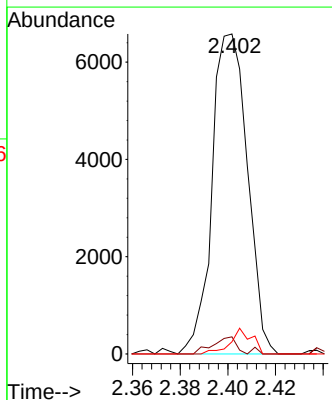
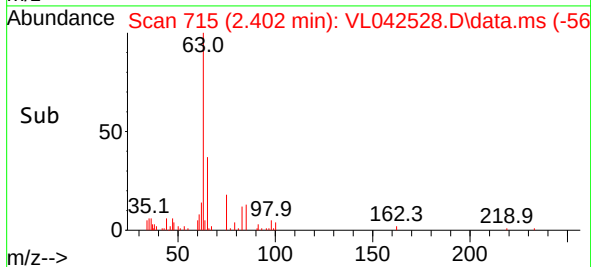
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

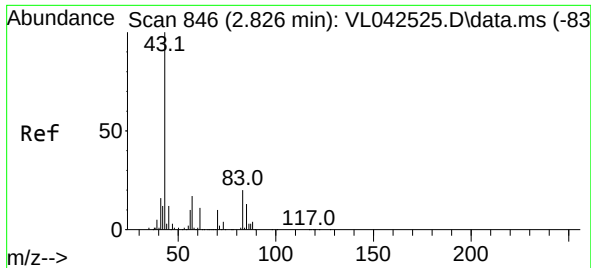


#24
 1,1-Dichloroethane
 Concen: 0.525 ppbv
 RT: 2.402 min Scan# 715
 Delta R.T. 0.003 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41



Tgt Ion:	63	Resp:	6774
Ion	Ratio	Lower	Upper
63	100		
98	5.1	2.6	8.0
100	3.6	1.4	4.2





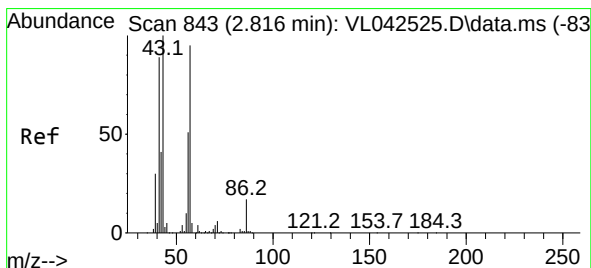
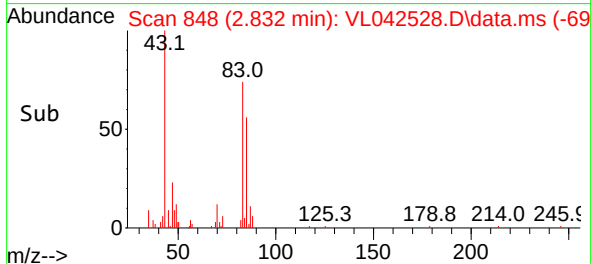
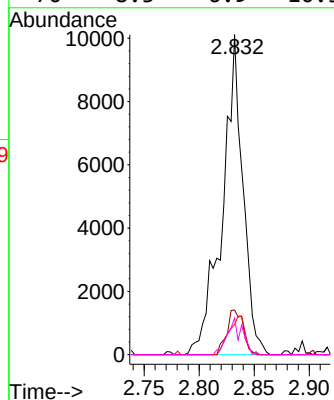
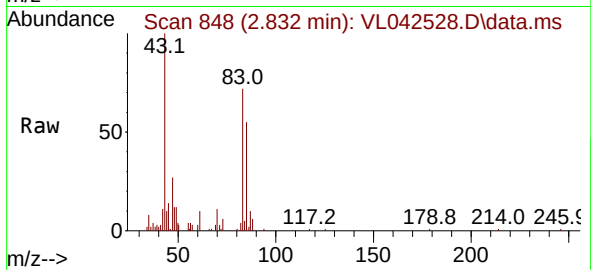
#25
Ethyl Acetate
Concen: 0.455 ppbv m
RT: 2.832 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:	43	Resp:	1322
Ion	Ratio	Lower	Upper
43	100		
45	11.0	7.9	11.9
61	9.4	7.1	10.7
70	8.3	6.9	10.3

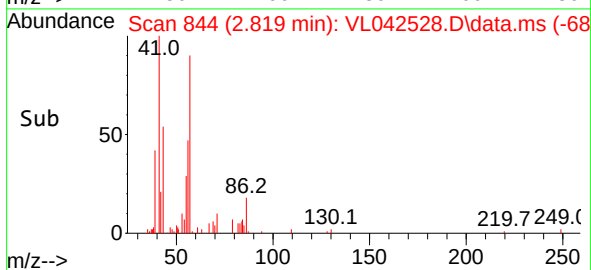
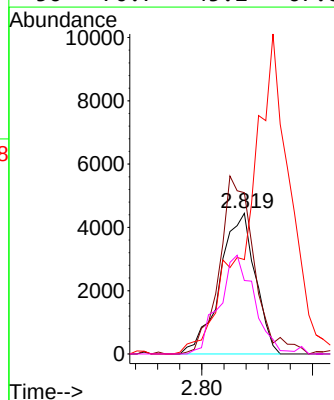
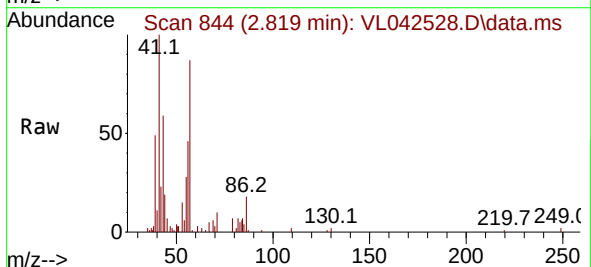
Manual Integrations
APPROVED

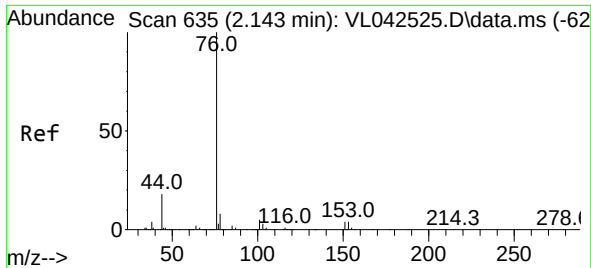
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#26
Hexane
Concen: 0.414 ppbv
RT: 2.819 min Scan# 844
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

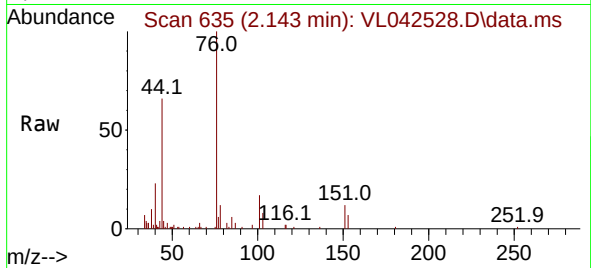
Tgt Ion:	57	Resp:	4939
Ion	Ratio	Lower	Upper
57	100		
41	124.6	76.1	114.1#
43	268.5	188.9	283.3
56	70.7	45.2	67.8#





#27
Carbon Disulfide
Concen: 0.516 ppbv
RT: 2.143 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

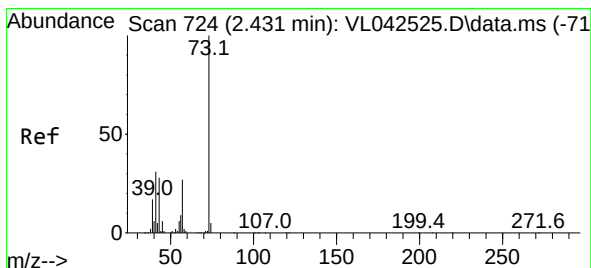
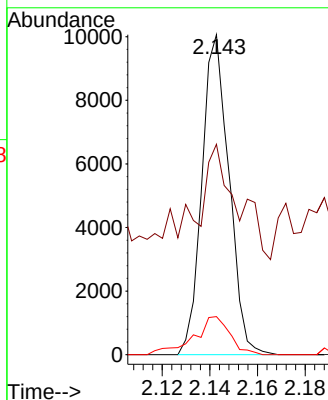
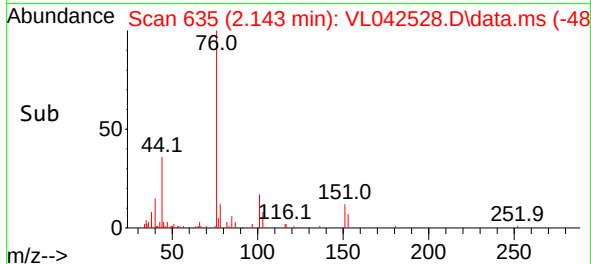
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 76 Resp: 795
Ion Ratio Lower Upper
76 100
44 130.4 17.1 25.7
78 15.9 8.6 12.8

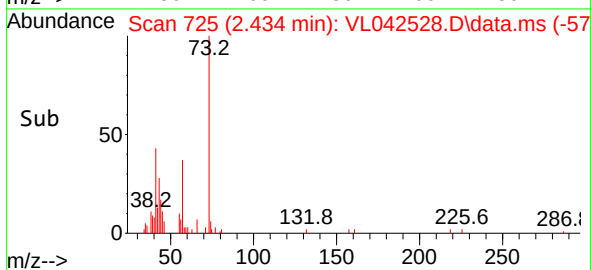
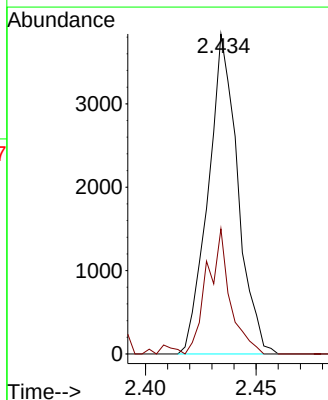
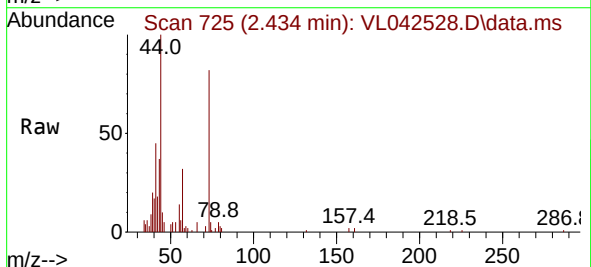
Manual Integrations
APPROVED

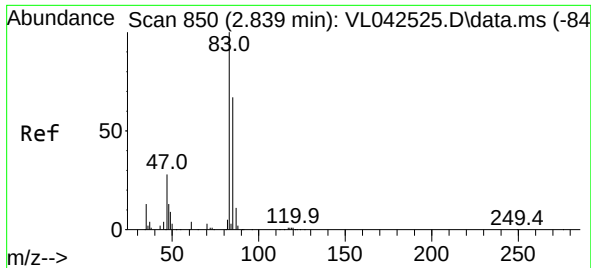
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#28
Methyl tert-Butyl Ether
Concen: 0.539 ppbv
RT: 2.434 min Scan# 725
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion: 73 Resp: 3573
Ion Ratio Lower Upper
73 100
57 31.9 20.3 30.5





#29

Chloroform

Concen: 0.536 ppbv

RT: 2.842 min Scan# 851

Delta R.T. 0.003 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 83 Resp: 1326

Ion Ratio Lower Upper

83 100

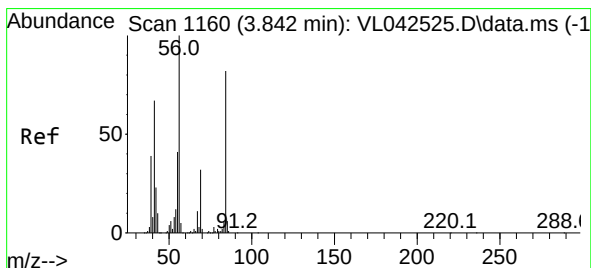
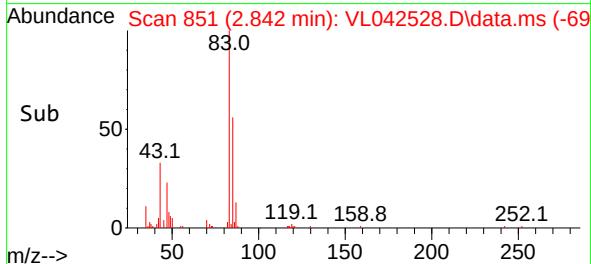
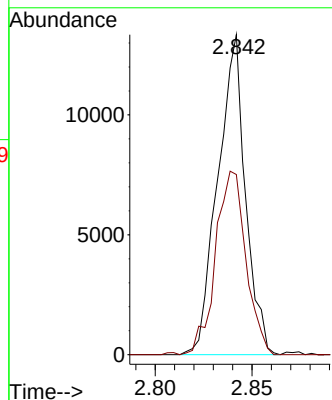
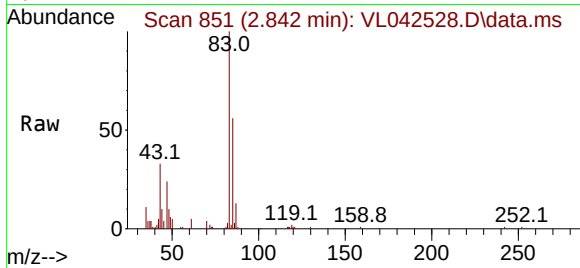
85 56.3 53.5 80.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#30

Cyclohexane

Concen: 0.442 ppbv m

RT: 3.845 min Scan# 1161

Delta R.T. 0.003 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

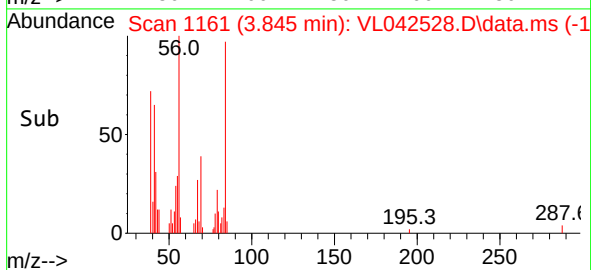
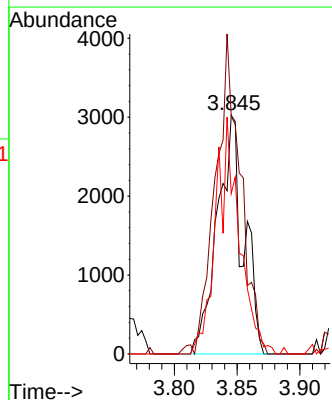
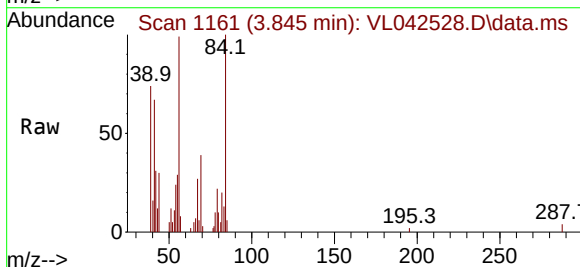
Tgt Ion: 84 Resp: 4336

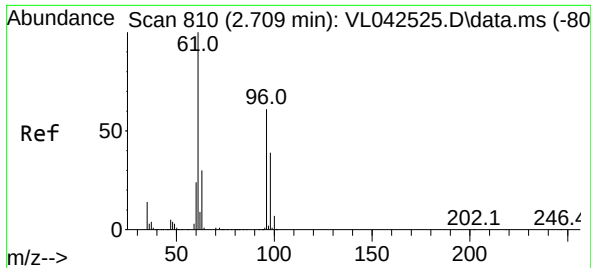
Ion Ratio Lower Upper

84 100

56 129.1 97.1 145.7

41 89.8 66.6 99.8





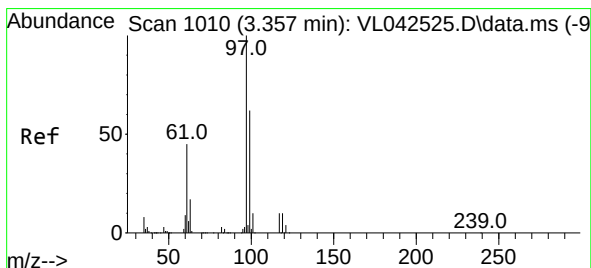
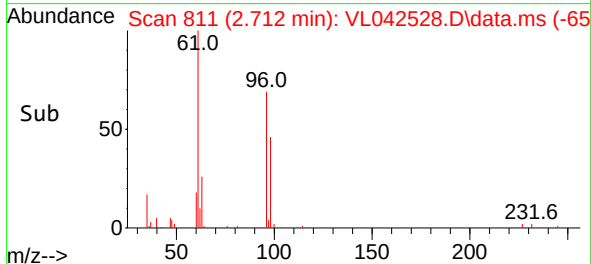
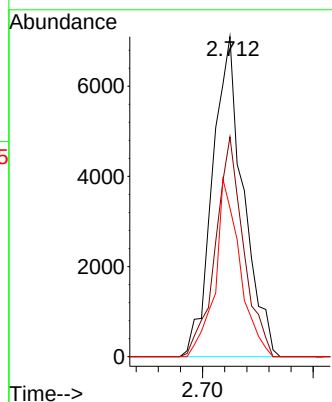
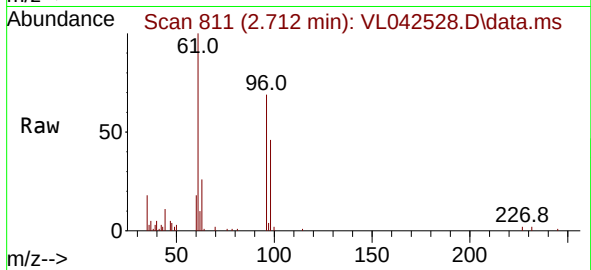
#31
 cis-1,2-Dichloroethene
 Concen: 0.511 ppbv
 RT: 2.712 min Scan# 810
 Delta R.T. 0.003 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 61 Resp: 6890
 Ion Ratio Lower Upper
 61 100
 96 68.7 48.9 73.3
 98 46.5 31.4 47.2

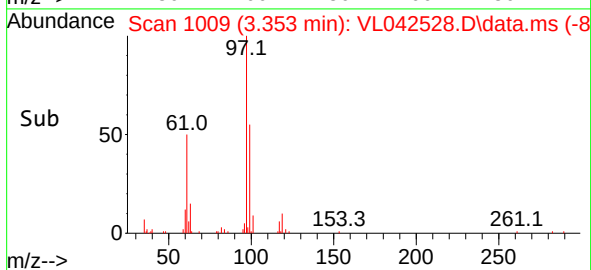
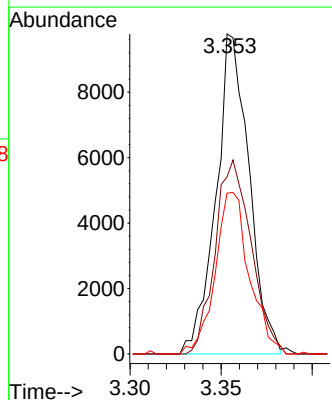
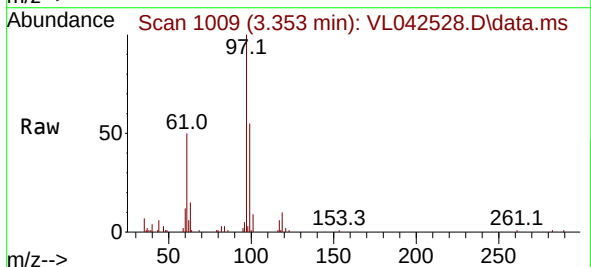
Manual Integrations
 APPROVED

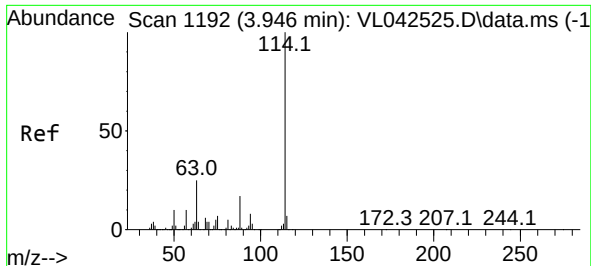
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#32
 1,1,1-Trichloroethane
 Concen: 0.495 ppbv
 RT: 3.353 min Scan# 1009
 Delta R.T. -0.004 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

Tgt Ion: 97 Resp: 12360
 Ion Ratio Lower Upper
 97 100
 99 65.9 50.1 75.1
 61 52.3 38.2 57.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.946 min Scan# 1192

Delta R.T. -0.000 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Instrument :

MSVOA_L

ClientSampleId :

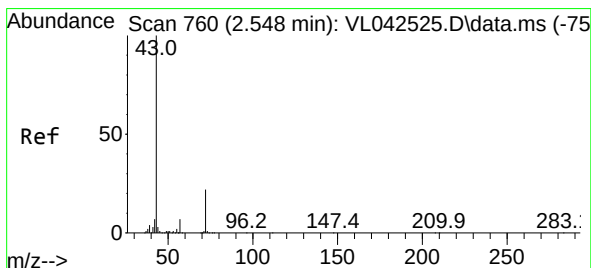
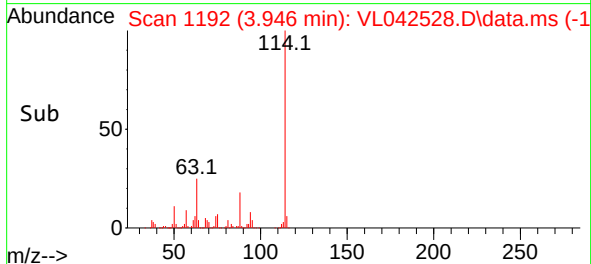
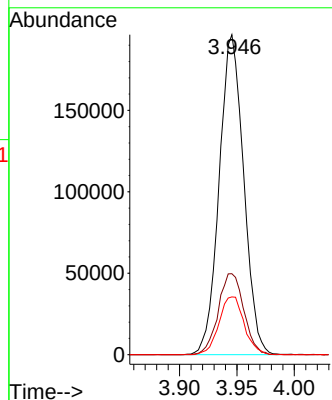
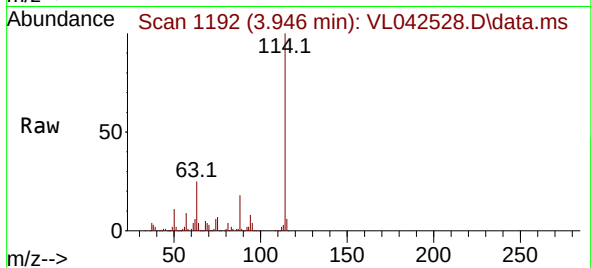
VSTDICC0.5

Tgt Ion:	114	Resp:	29124
Ion Ratio	Lower	Upper	
114	100		
63	26.5	20.4	30.6
88	18.6	14.5	21.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#34

2-Butanone

Concen: 0.521 ppbv

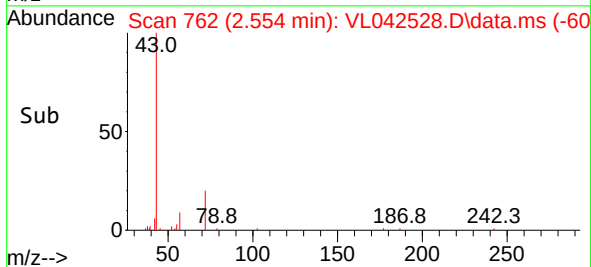
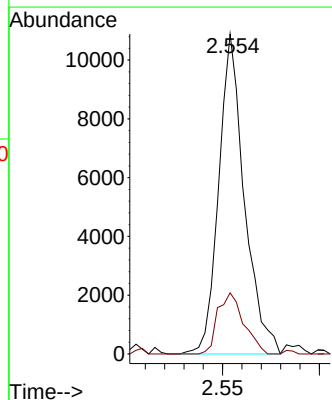
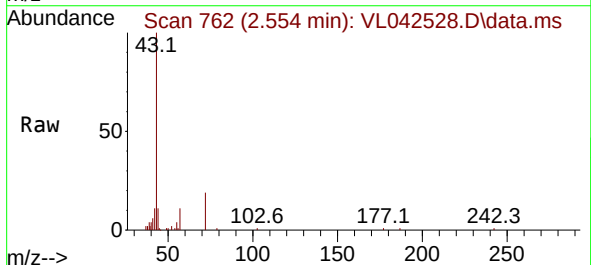
RT: 2.554 min Scan# 762

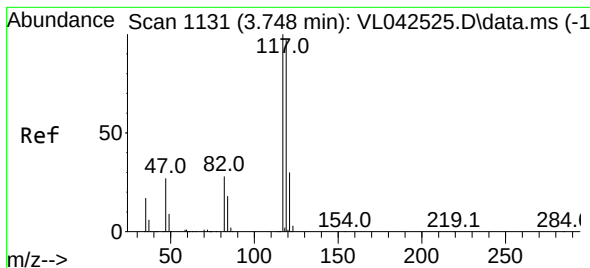
Delta R.T. 0.006 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Tgt Ion:	43	Resp:	9997
Ion Ratio	Lower	Upper	
43	100		
72	19.9	18.7	28.1





#35

Carbon Tetrachloride

Concen: 0.492 ppbv m

RT: 3.748 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Instrument :

MSVOA_L

ClientSampleId :

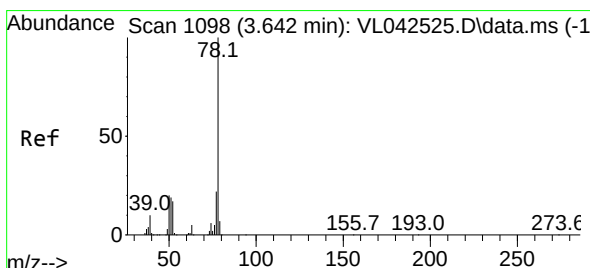
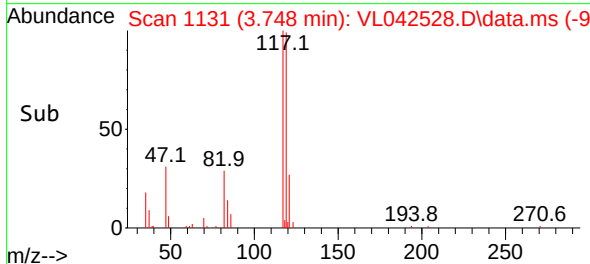
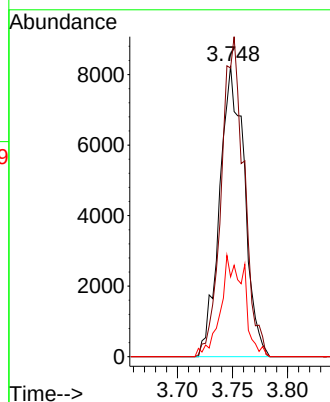
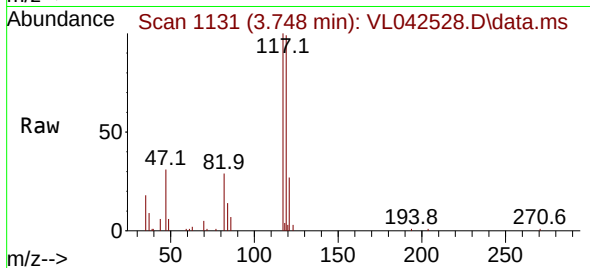
VSTDIC0.5

Tgt Ion:	117	Resp:	12870
Ion	Ratio	Lower	Upper
117	100		
119	99.3	77.7	116.5
121	27.5	24.0	36.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#36

Benzene

Concen: 0.493 ppbv

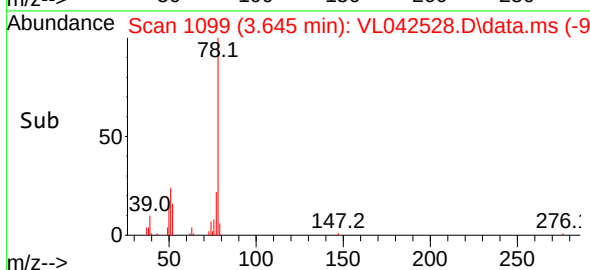
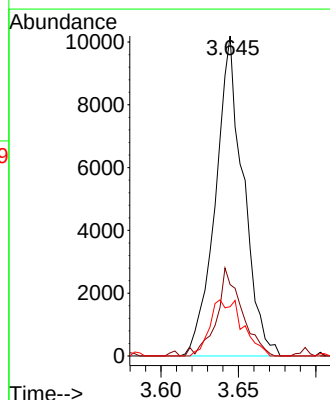
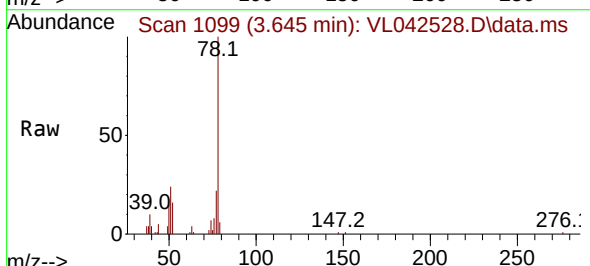
RT: 3.645 min Scan# 1099

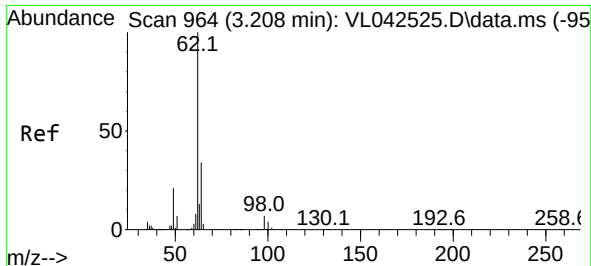
Delta R.T. 0.003 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

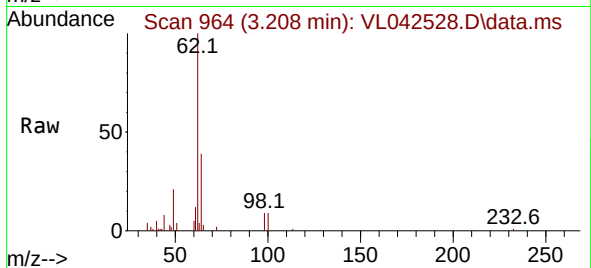
Tgt Ion:	78	Resp:	12733
Ion	Ratio	Lower	Upper
78	100		
77	22.3	17.4	26.2
50	15.4	16.3	24.5





#37
1,2-Dichloroethane
Concen: 0.513 ppbv
RT: 3.208 min Scan# 964
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

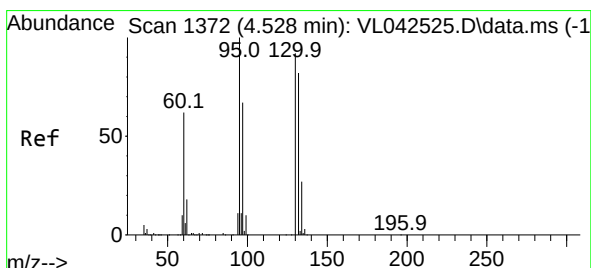
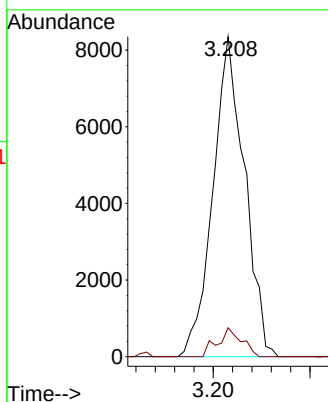
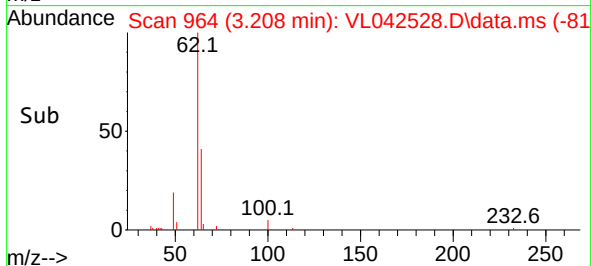
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 62 Resp: 9449
Ion Ratio Lower Upper
62 100
98 6.8 5.0 7.4

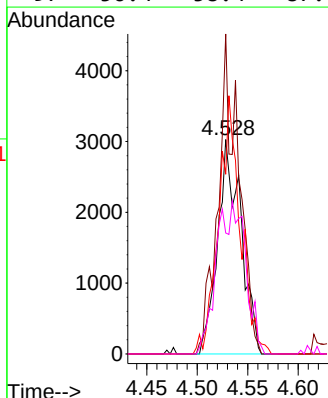
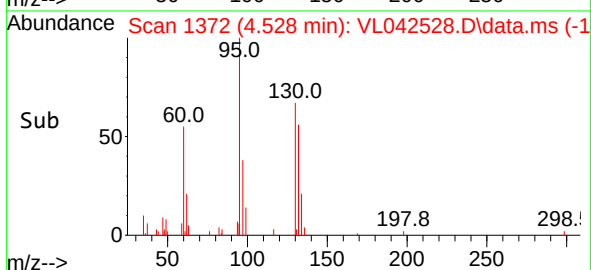
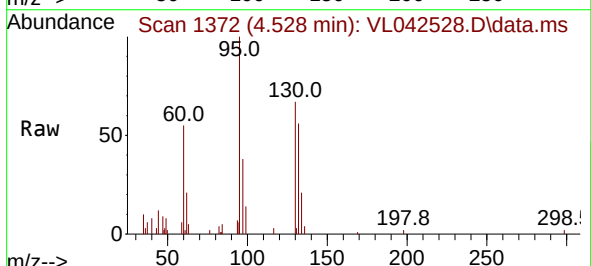
Manual Integrations
APPROVED

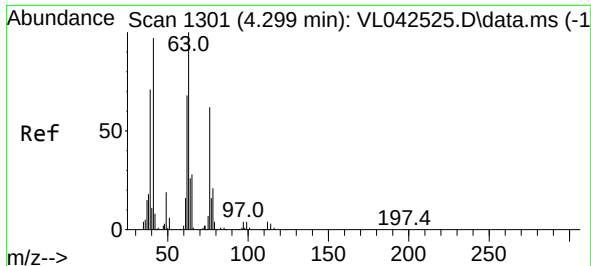
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#38
Trichloroethene
Concen: 0.440 ppbv m
RT: 4.528 min Scan# 1372
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion:130 Resp: 4849
Ion Ratio Lower Upper
130 100
95 149.3 87.0 130.4#
132 83.8 71.1 106.7
97 56.4 58.4 87.6#





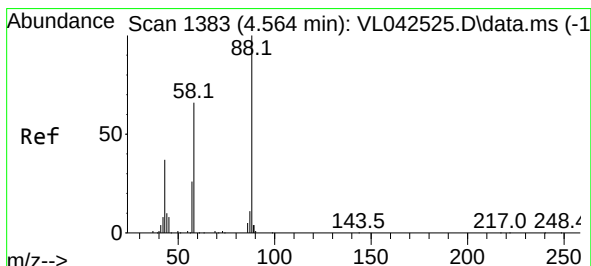
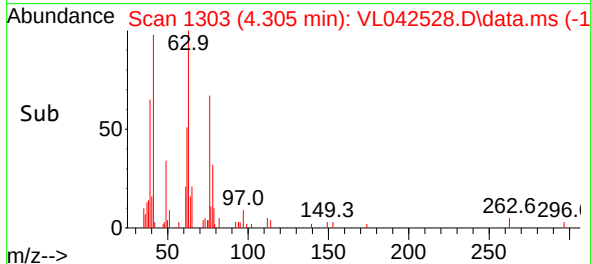
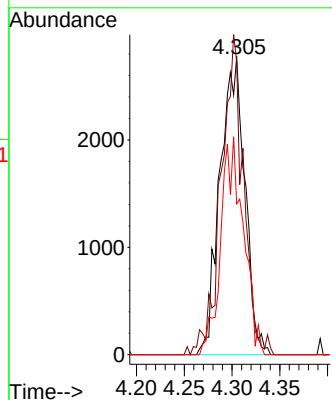
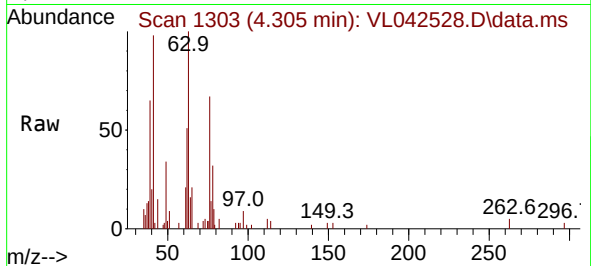
#39
1,2-Dichloropropane
Concen: 0.524 ppbv m
RT: 4.305 min Scan# 1301
Delta R.T. 0.006 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 63 Resp: 503
Ion Ratio Lower Upper
63 100
41 98.4 77.5 116.3
62 50.6 54.6 82.0

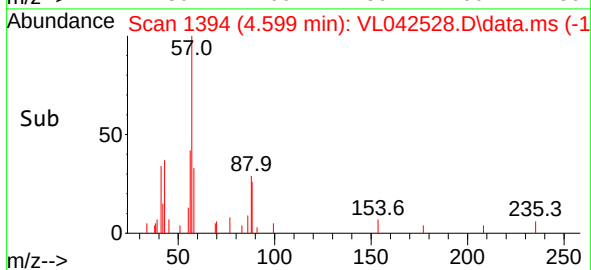
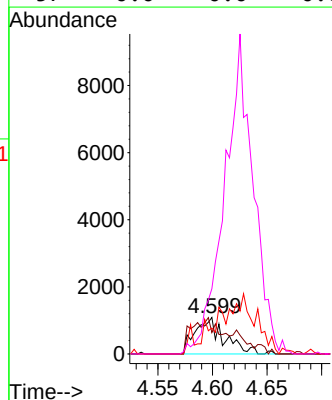
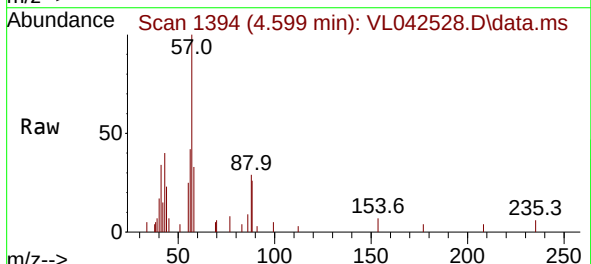
Manual Integrations
APPROVED

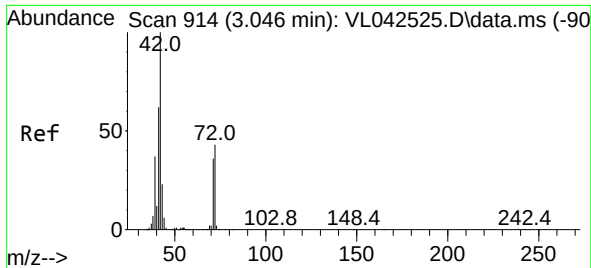
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#40
1,4-Dioxane
Concen: 0.526 ppbv m
RT: 4.599 min Scan# 1394
Delta R.T. 0.035 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

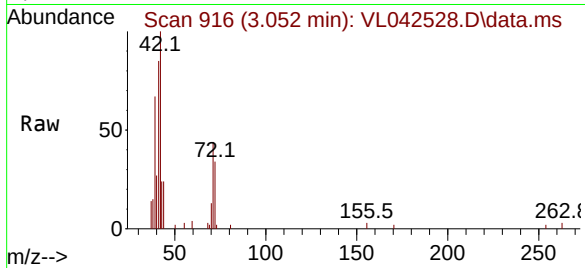
Tgt Ion: 88 Resp: 2013
Ion Ratio Lower Upper
88 100
58 0.0 58.2 87.2#
43 0.0 27.9 41.9#
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 0.384 ppbv m
RT: 3.052 min Scan# 914
Delta R.T. 0.006 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

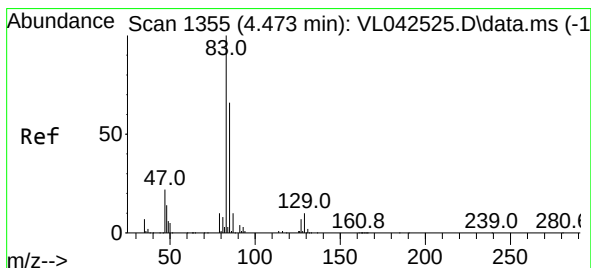
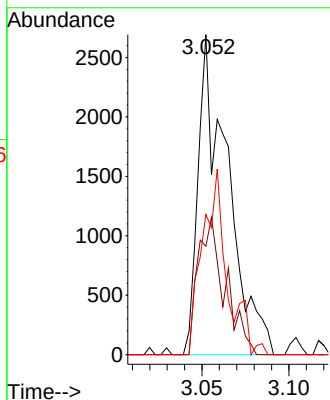
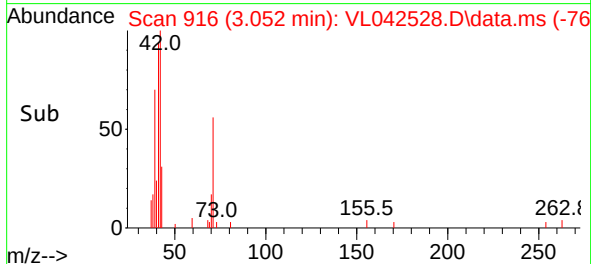
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



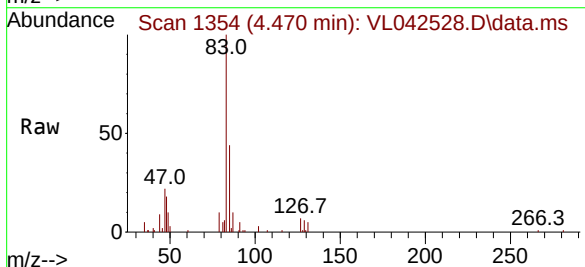
Tgt Ion: 42 Resp: 3180
Ion Ratio Lower Upper
42 100
72 39.0 32.7 49.1
71 0.0 30.4 45.6

Manual Integrations
APPROVED

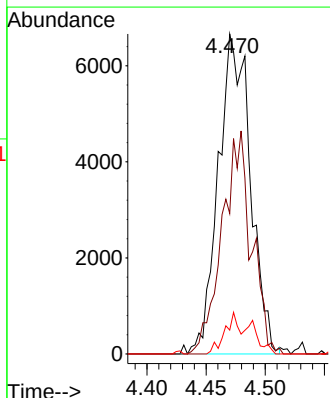
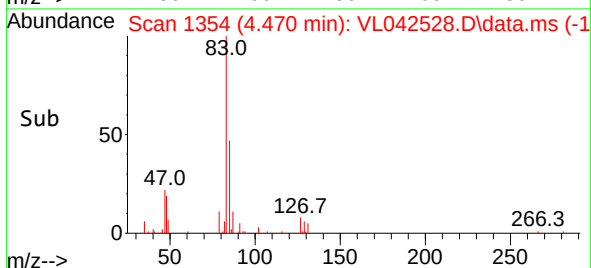
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

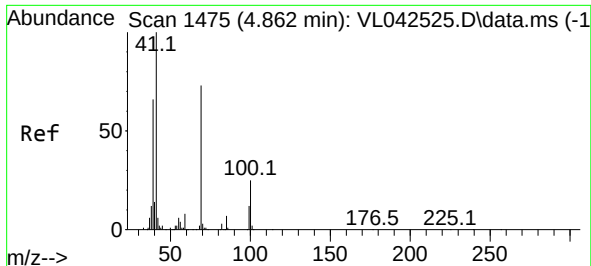


#42
Bromodichloromethane
Concen: 0.513 ppbv m
RT: 4.470 min Scan# 1354
Delta R.T. -0.004 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41



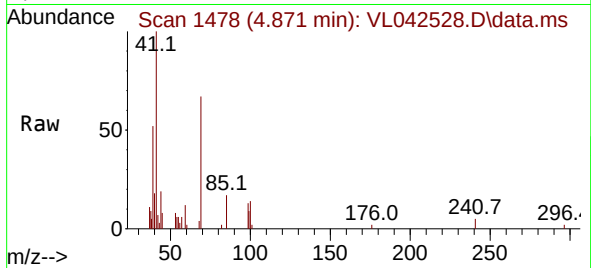
Tgt Ion: 83 Resp: 12586
Ion Ratio Lower Upper
83 100
85 43.9 52.6 79.0#
127 7.4 6.0 9.0





#43
Methyl Methacrylate
Concen: 0.406 ppbv m
RT: 4.871 min Scan# 1475
Delta R.T. 0.009 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

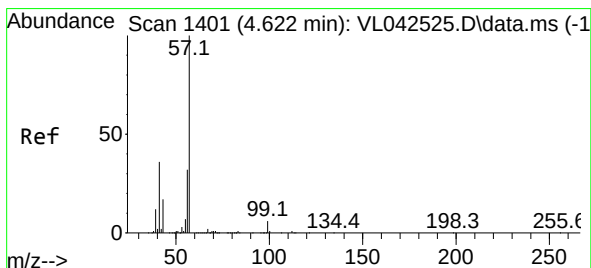
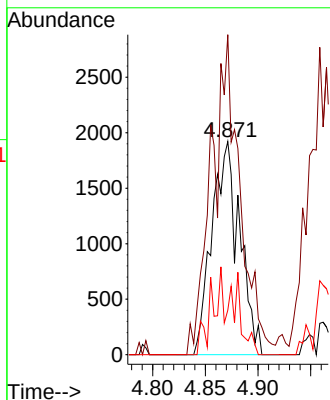
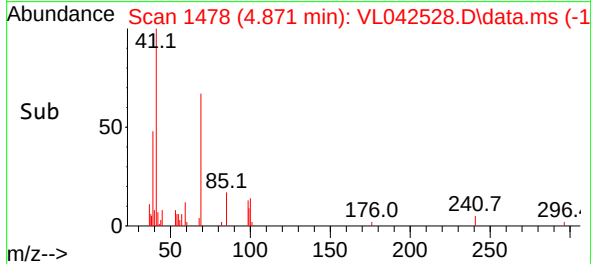
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



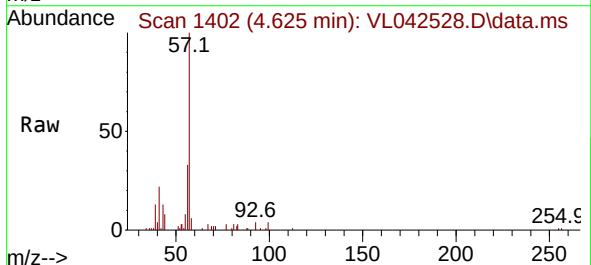
Tgt Ion: 69 Resp: 3498
Ion Ratio Lower Upper
69 100
41 0.0 119.9 179.9
100 32.7 28.4 42.6

Manual Integrations
APPROVED

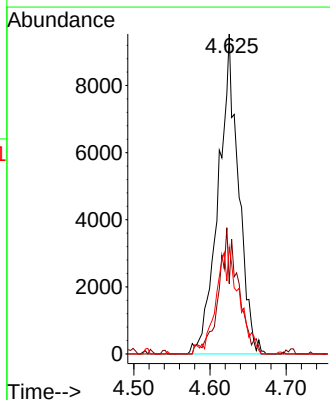
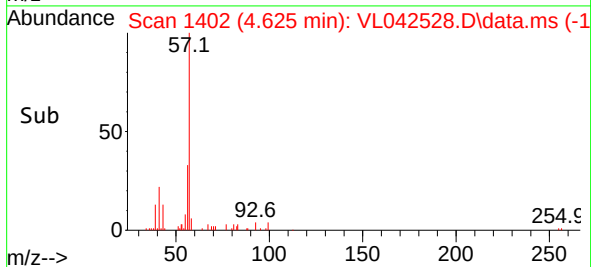
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

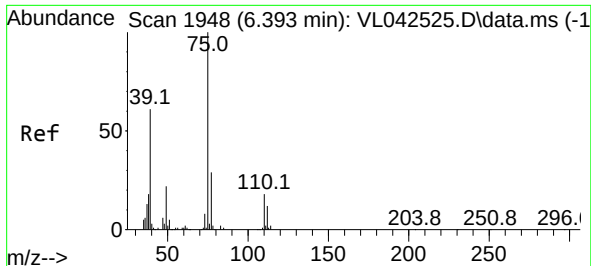


#44
2,2,4-Trimethylpentane
Concen: 0.432 ppbv m
RT: 4.625 min Scan# 1402
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41



Tgt Ion: 57 Resp: 17528
Ion Ratio Lower Upper
57 100
41 38.1 28.3 42.5
56 37.8 25.9 38.9





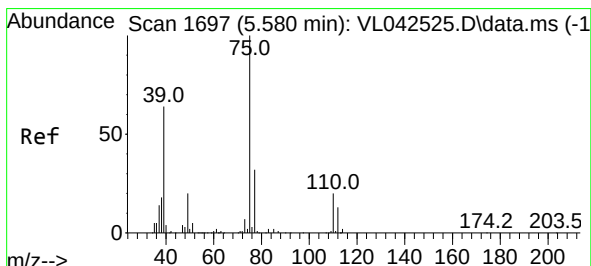
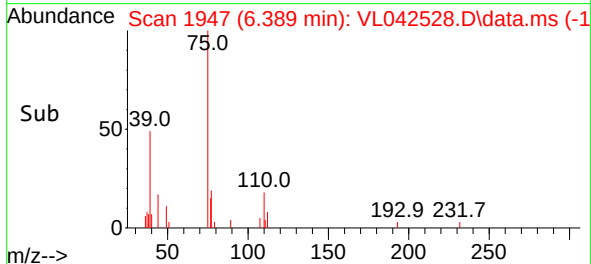
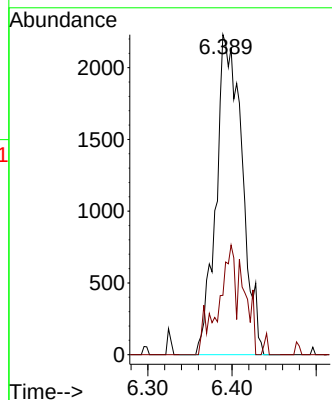
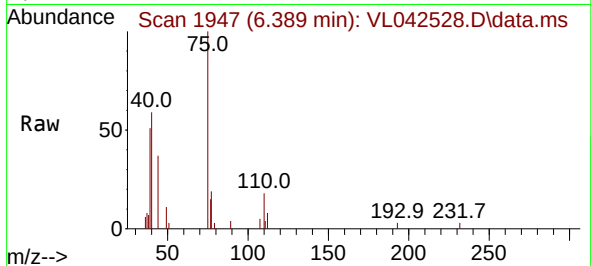
#45
t-1,3-Dichloropropene
Concen: 0.433 ppbv m
RT: 6.389 min Scan# 1948
Delta R.T. -0.004 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 75 Resp: 4770
Ion Ratio Lower Upper
75 100
77 18.6 23.3 34.9

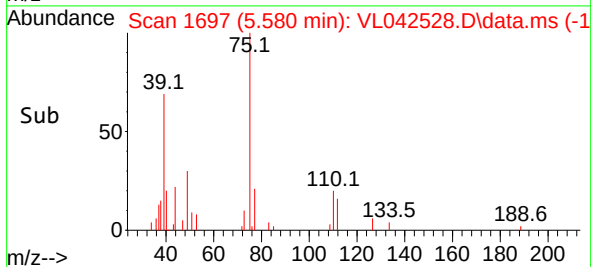
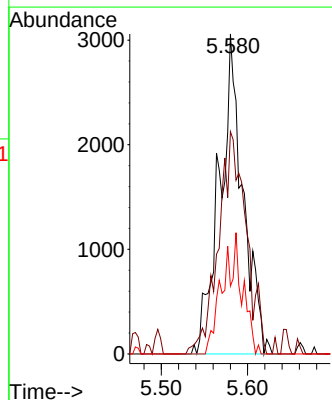
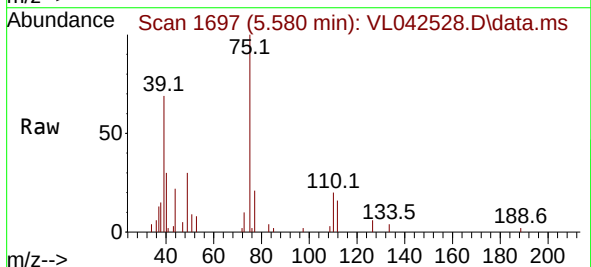
Manual Integrations
APPROVED

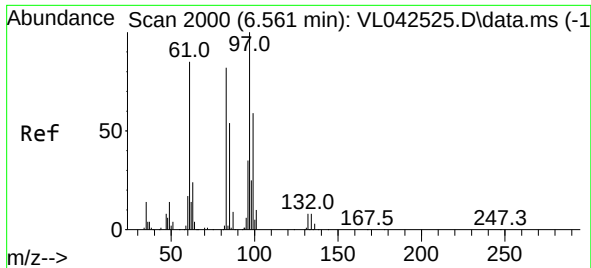
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#46
cis-1,3-Dichloropropene
Concen: 0.436 ppbv m
RT: 5.580 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion: 75 Resp: 5788
Ion Ratio Lower Upper
75 100
39 69.4 51.2 76.8
77 21.2 25.4 38.0





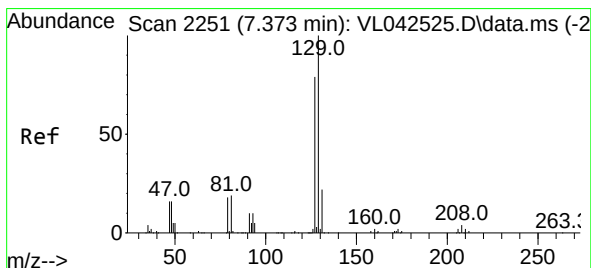
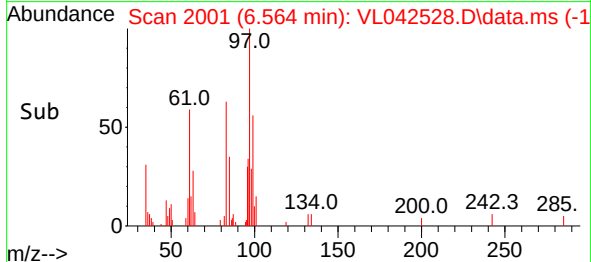
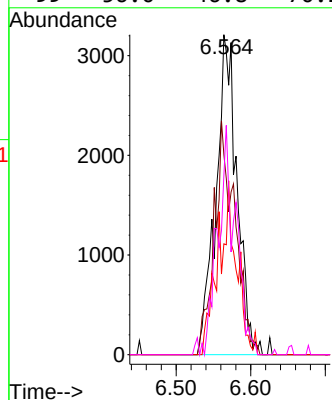
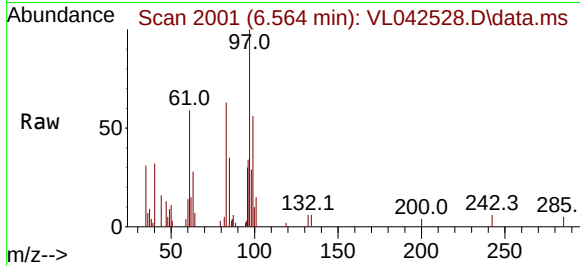
#47
1,1,2-Trichloroethane
Concen: 0.560 ppbv m
RT: 6.564 min Scan# 2000
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 97 Resp: 6332
Ion Ratio Lower Upper
97 100
83 62.5 66.0 99.0
85 34.7 42.8 64.2
99 56.0 46.8 70.2

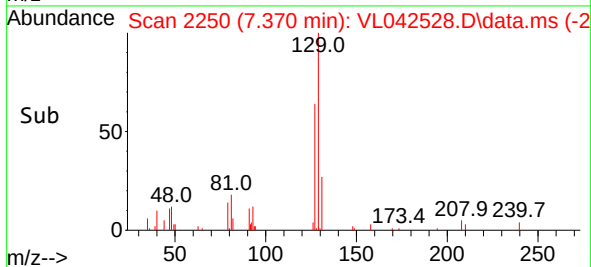
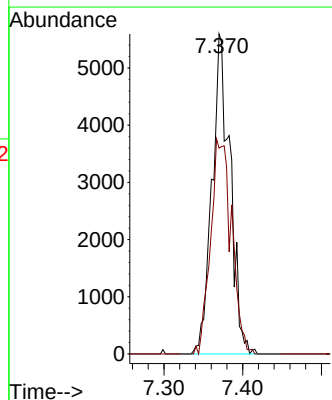
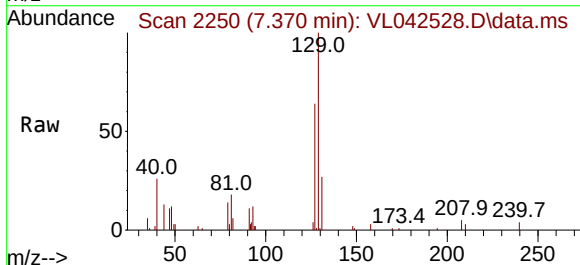
Manual Integrations
APPROVED

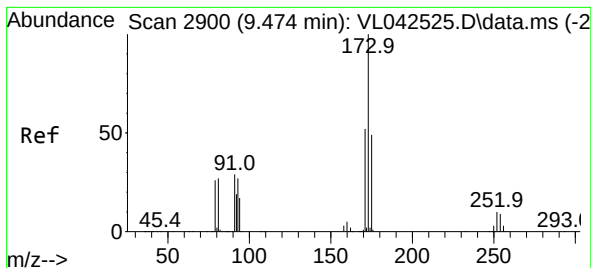
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#48
Dibromochloromethane
Concen: 0.468 ppbv m
RT: 7.370 min Scan# 2250
Delta R.T. -0.004 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion:129 Resp: 8855
Ion Ratio Lower Upper
129 100
127 78.6 39.6 118.8





#49

Bromoform

Concen: 0.460 ppbv

RT: 9.474 min Scan# 2900

Delta R.T. -0.000 min

Lab File: VL042528.D

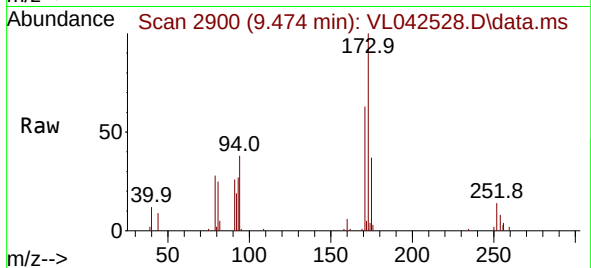
Acq: 12 May 2025 10:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

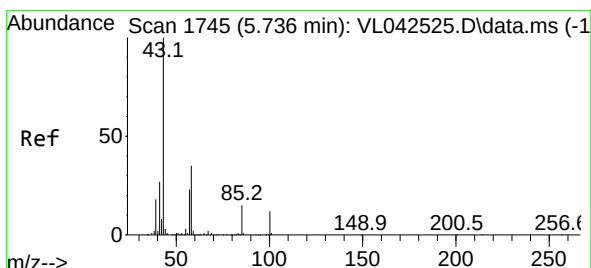
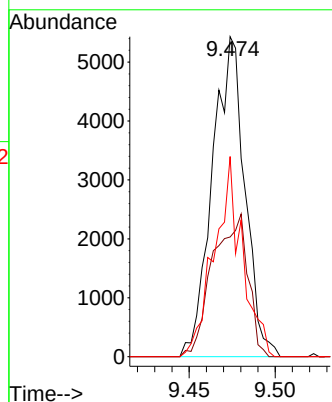
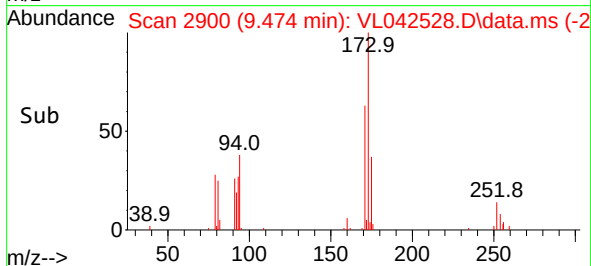


Tgt Ion:	173	Resp:	7130
Ion	Ratio	Lower	Upper
173	100		
175	48.1	39.1	58.7
171	53.6	41.8	62.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#50

4-Methyl-2-Pentanone

Concen: 0.402 ppbv m

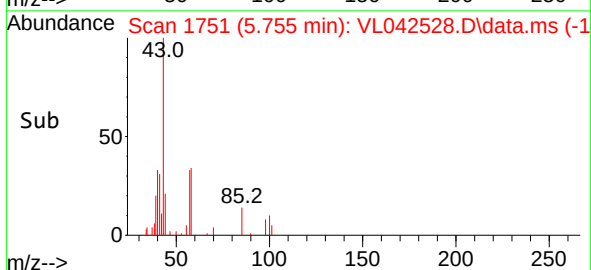
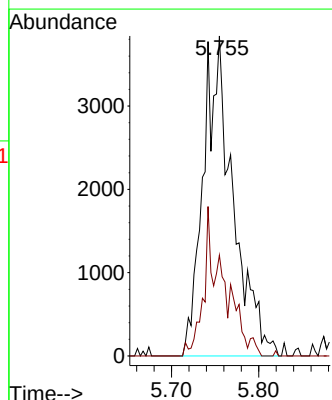
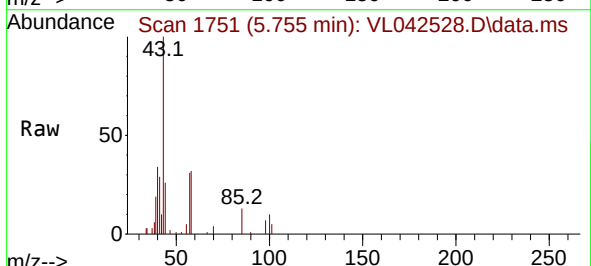
RT: 5.755 min Scan# 1751

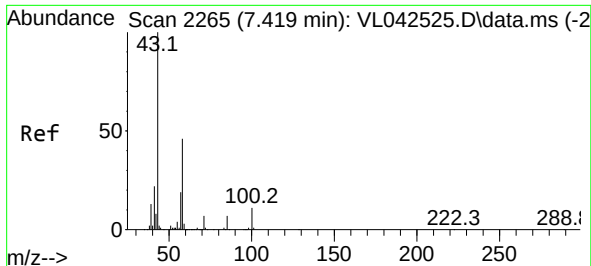
Delta R.T. 0.019 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

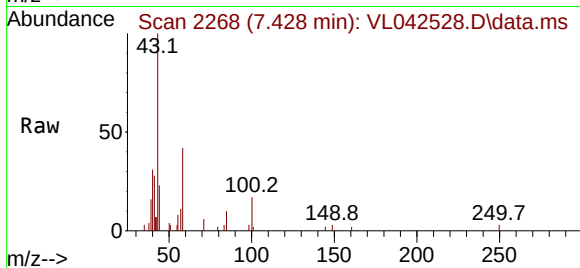
Tgt Ion:	43	Resp:	9040
Ion	Ratio	Lower	Upper
43	100		
58	31.7	28.6	42.8





#51
2-Hexanone
Concen: 0.355 ppbv m
RT: 7.428 min Scan# 2109
Delta R.T. 0.009 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

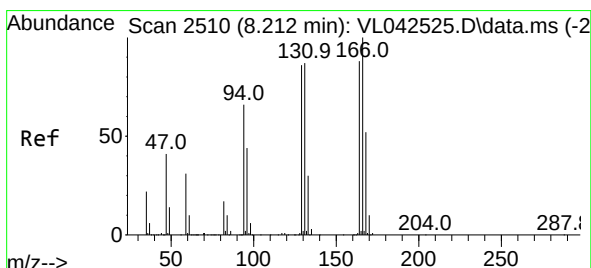
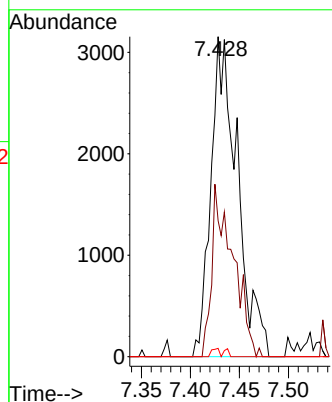
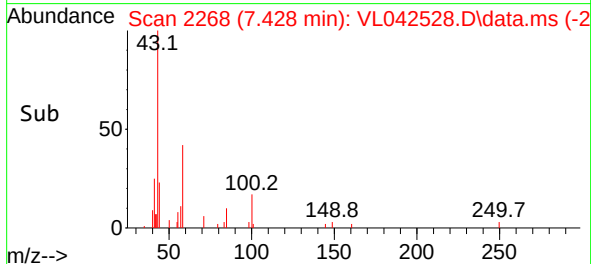
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



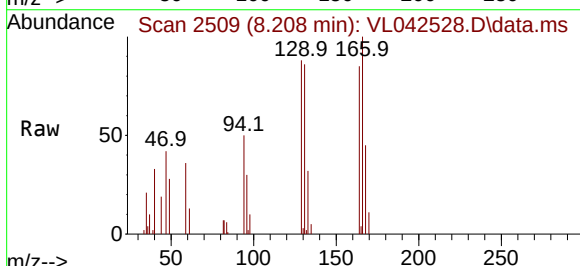
Tgt Ion: 43 Resp: 593
Ion Ratio Lower Upper
43 100
58 43.0 37.5 56.3
98 1.2 0.9 1.3

Manual Integrations
APPROVED

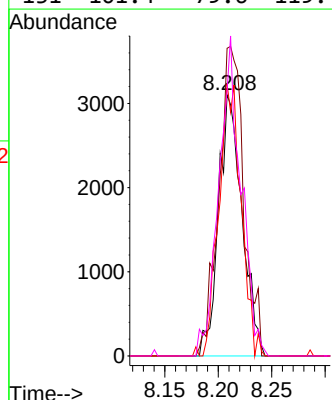
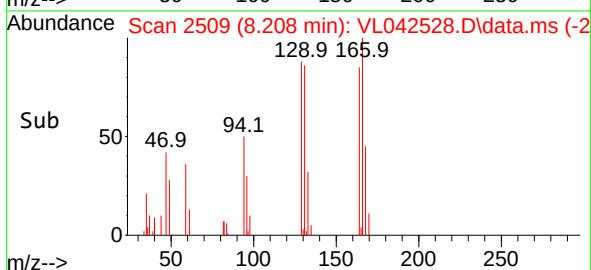
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

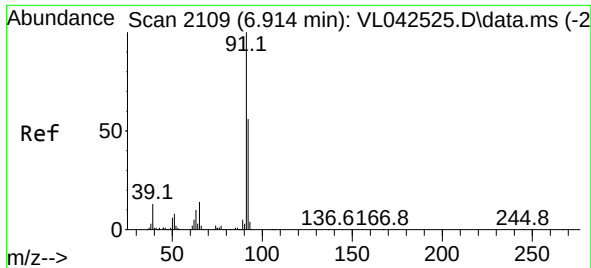


#52
Tetrachloroethene
Concen: 0.478 ppbv m
RT: 8.208 min Scan# 2509
Delta R.T. -0.004 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41



Tgt Ion:164 Resp: 4752
Ion Ratio Lower Upper
164 100
166 117.8 91.3 136.9
129 104.2 78.9 118.3
131 101.4 79.6 119.4





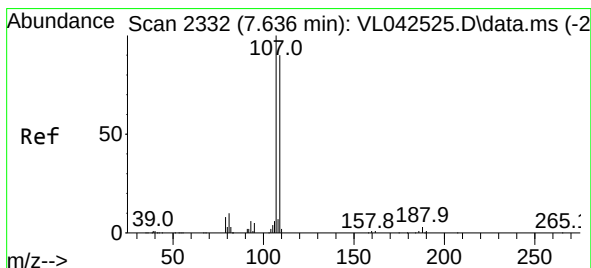
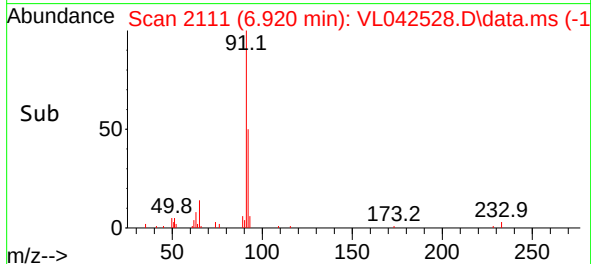
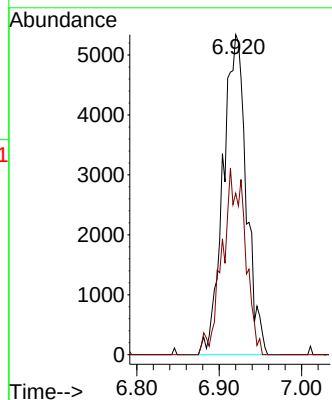
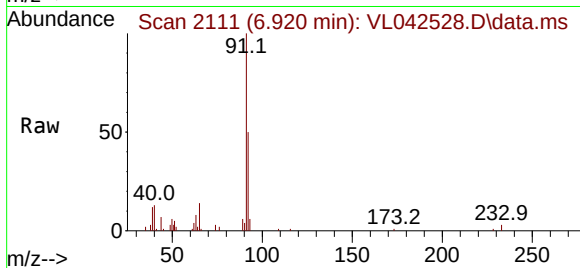
#53
Toluene
Concen: 0.414 ppbv m
RT: 6.920 min Scan# 2111
Delta R.T. 0.006 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 10479
Ion Ratio Lower Upper
91 100
92 57.5 47.8 71.6

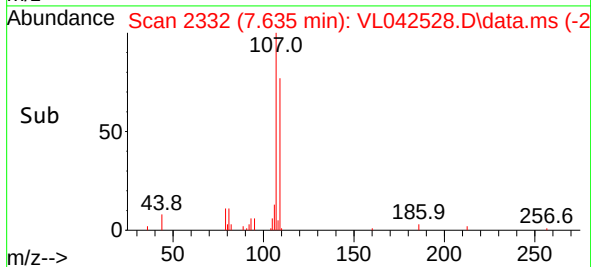
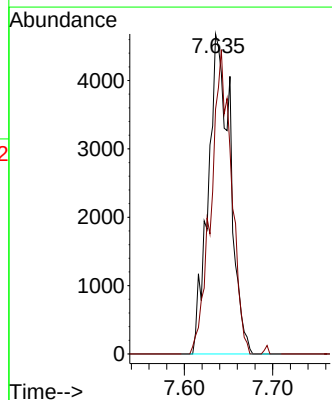
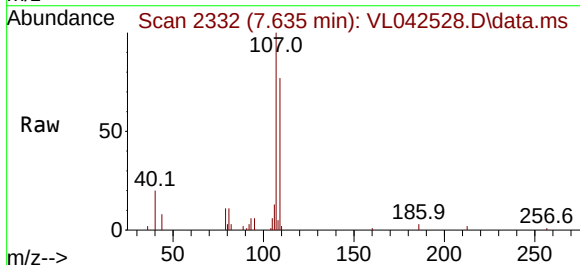
Manual Integrations
APPROVED

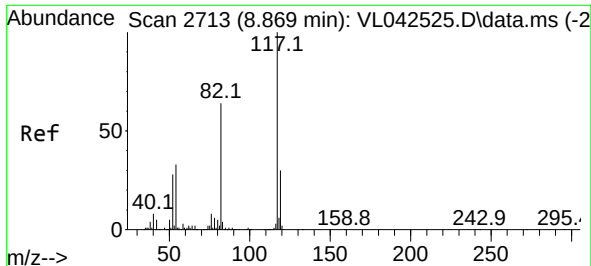
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#54
1,2-Dibromoethane
Concen: 0.489 ppbv m
RT: 7.635 min Scan# 2332
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

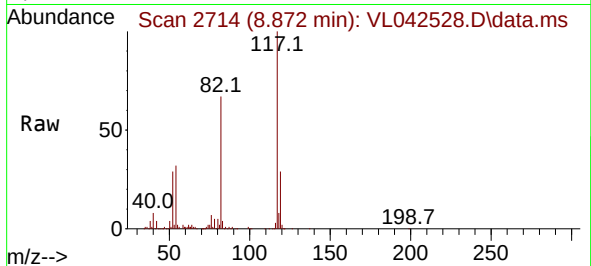
Tgt Ion:107 Resp: 8089
Ion Ratio Lower Upper
107 100
109 76.5 72.2 108.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

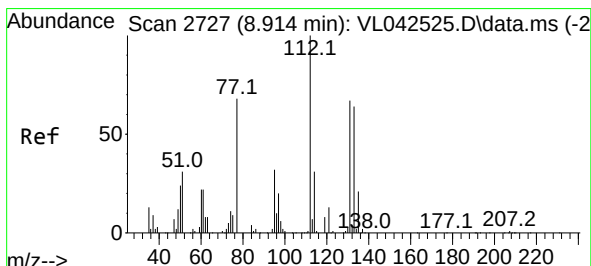
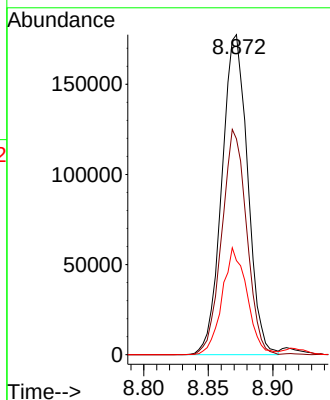
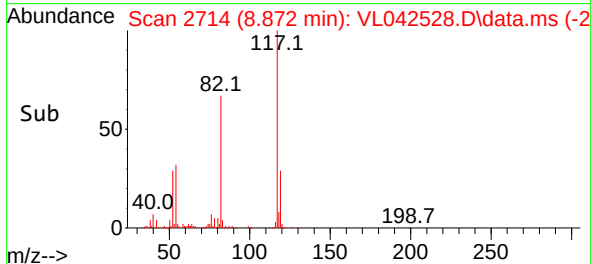
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



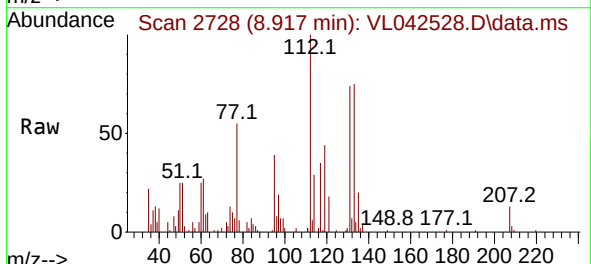
Tgt Ion:117 Resp: 24644
Ion Ratio Lower Upper
117 100
82 68.2 55.0 82.4
119 34.0 25.8 38.6

Manual Integrations
APPROVED

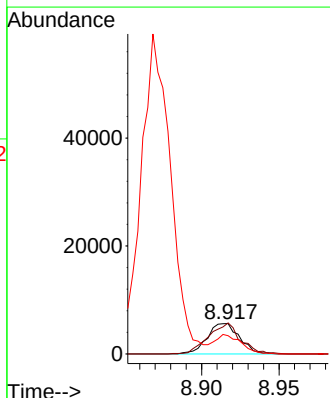
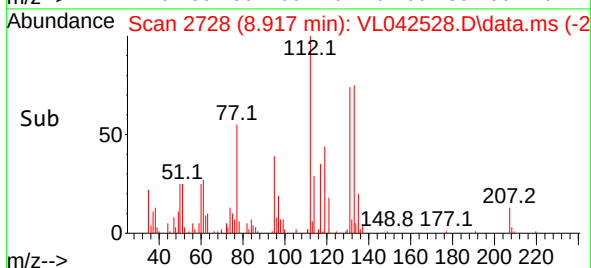
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

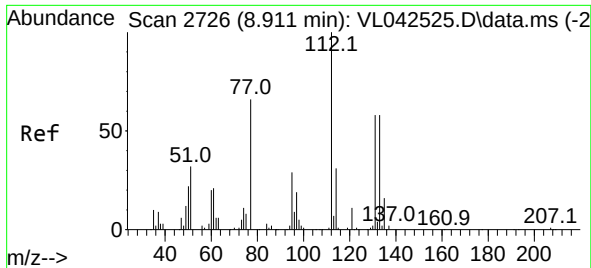


#56
1,1,1,2-Tetrachloroethane
Concen: 0.533 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41



Tgt Ion:131 Resp: 8150
Ion Ratio Lower Upper
131 100
133 100.6 77.4 116.2
119 1028.9 49.0 73.4#





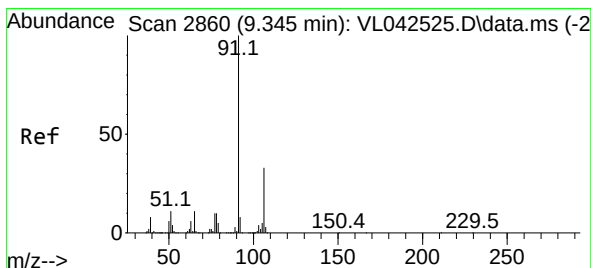
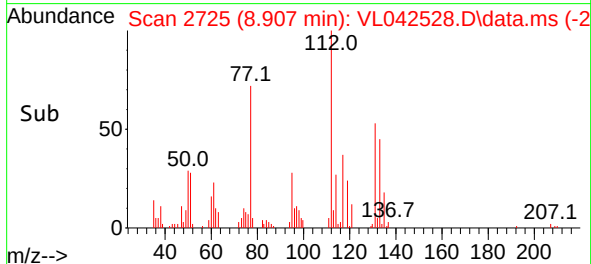
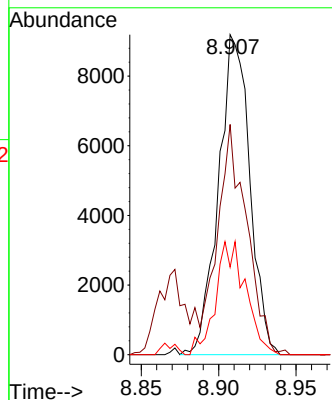
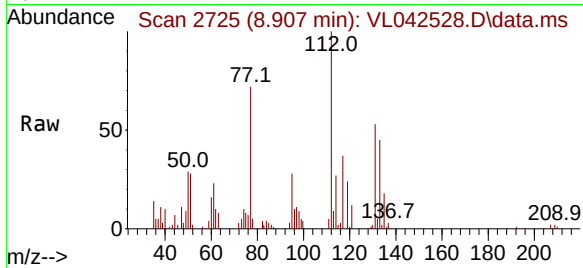
#57
Chlorobenzene
Concen: 0.521 ppbv
RT: 8.907 min Scan# 21
Delta R.T. -0.004 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 112 Resp: 1288
Ion Ratio Lower Upper
112 100
77 70.9 53.6 80.4
114 27.4 28.2 34.4

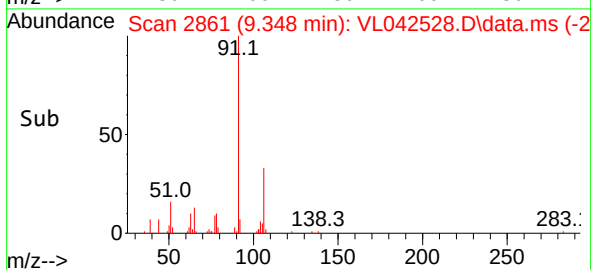
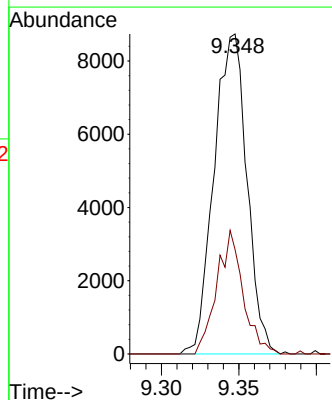
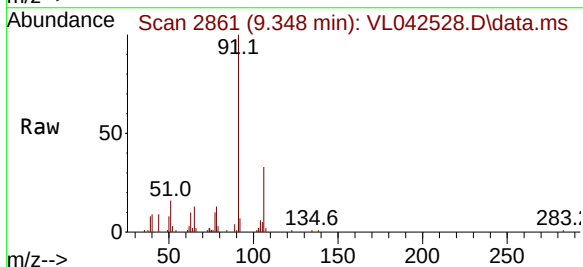
Manual Integrations
APPROVED

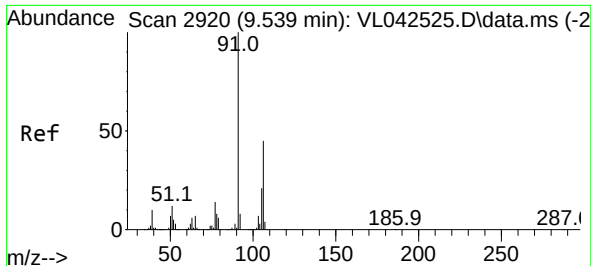
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#58
Ethyl Benzene
Concen: 0.384 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion: 91 Resp: 12895
Ion Ratio Lower Upper
91 100
106 32.6 26.0 39.0





#59

m/p-Xylene

Concen: 0.715 ppbv m

RT: 9.519 min Scan# 2914

Delta R.T. -0.020 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 91 Resp: 2137

Ion Ratio Lower Upper

91 100

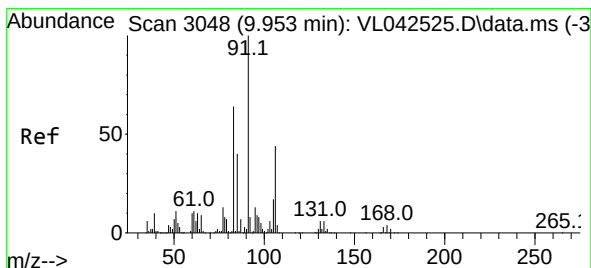
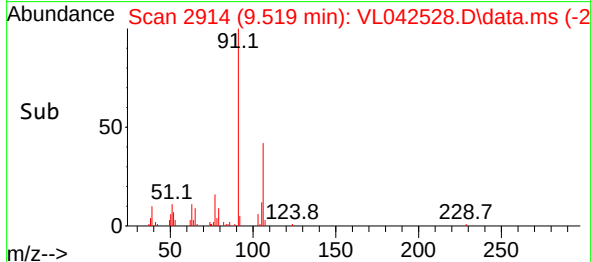
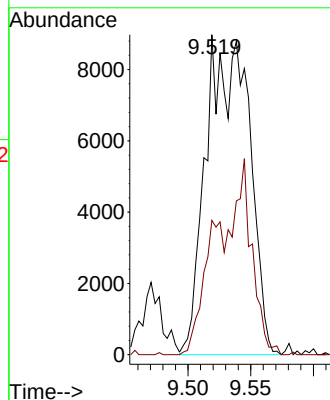
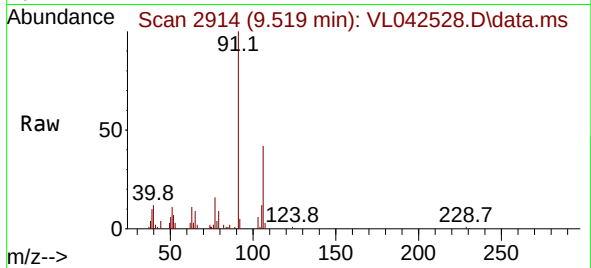
106 48.7 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#60

o-Xylene

Concen: 0.341 ppbv m

RT: 9.950 min Scan# 3047

Delta R.T. -0.004 min

Lab File: VL042528.D

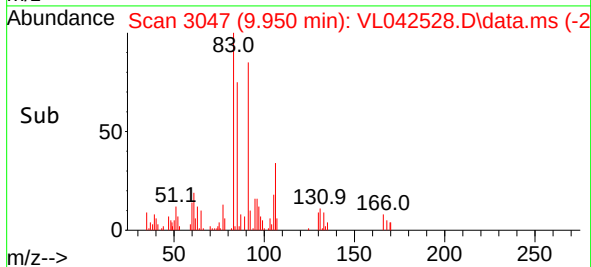
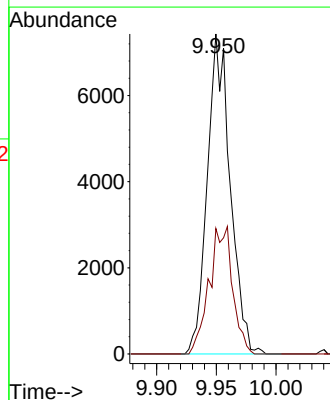
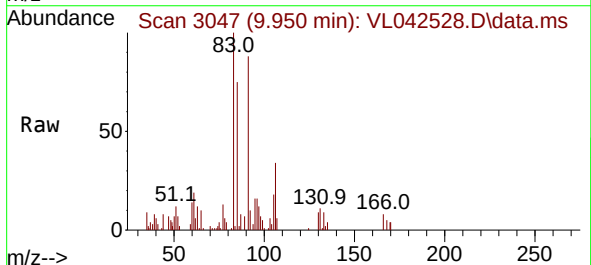
Acq: 12 May 2025 10:41

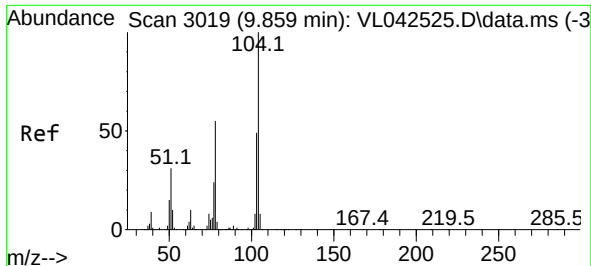
Tgt Ion: 91 Resp: 9922

Ion Ratio Lower Upper

91 100

106 40.6 21.6 64.6





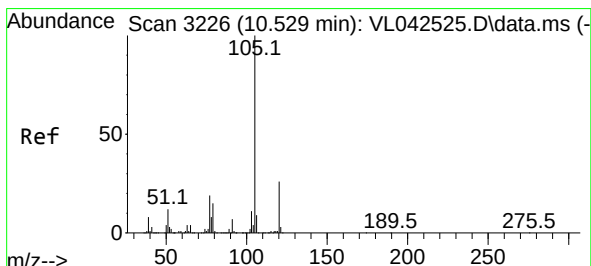
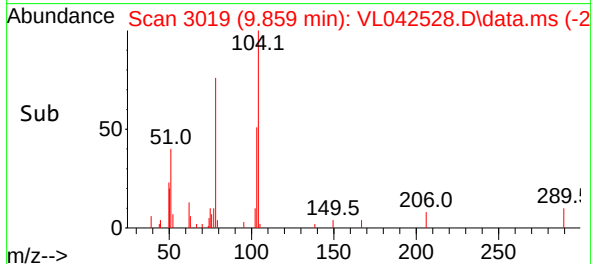
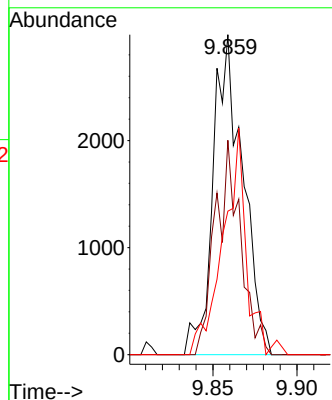
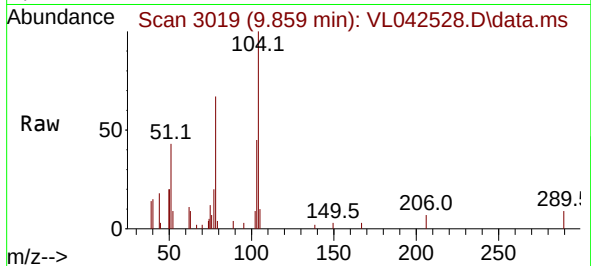
#61
Styrene
Concen: 0.342 ppbv m
RT: 9.859 min Scan# 3019
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:104 Resp: 3669
Ion Ratio Lower Upper
104 100
78 56.7 44.7 67.1
103 55.5 38.6 58.0

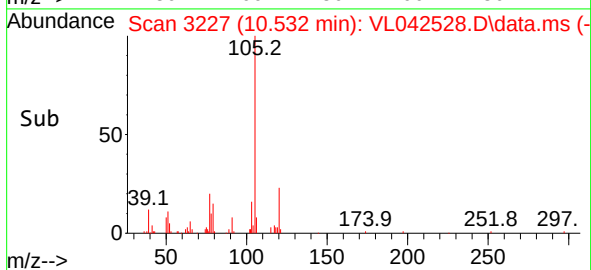
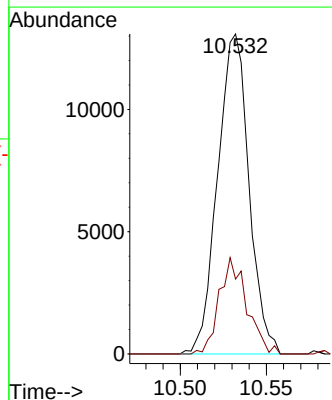
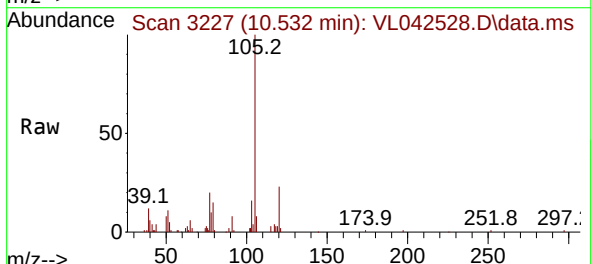
Manual Integrations
APPROVED

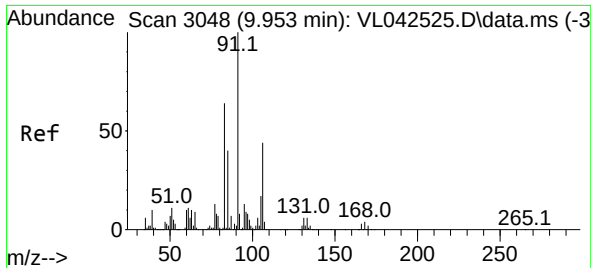
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#62
Isopropylbenzene
Concen: 0.378 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion:105 Resp: 16603
Ion Ratio Lower Upper
105 100
120 26.4 20.1 30.1





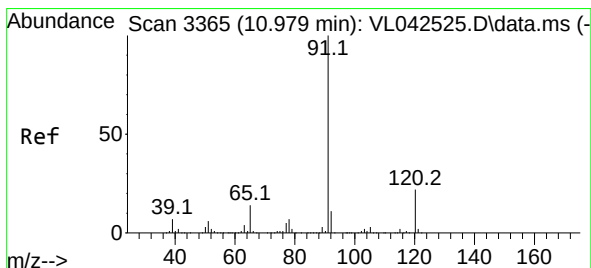
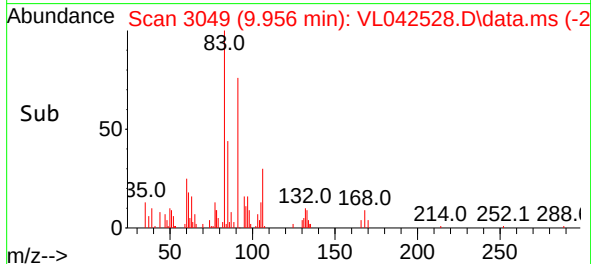
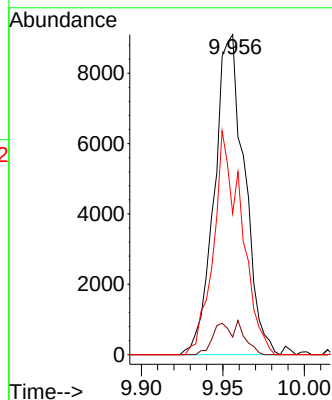
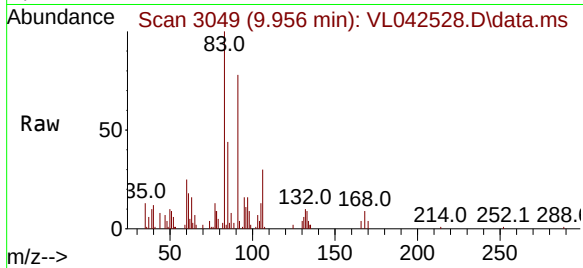
#63
1,1,2,2-Tetrachloroethane
Concen: 0.501 ppbv
RT: 9.956 min Scan# 3048
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 83 Resp: 1169
Ion Ratio Lower Upper
83 100
131 9.6 4.9 14.7
85 65.2 32.3 96.8

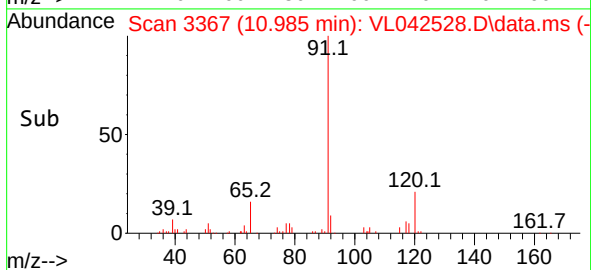
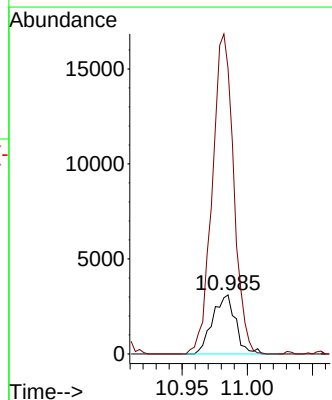
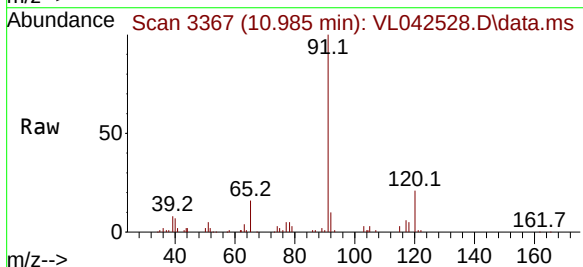
Manual Integrations
APPROVED

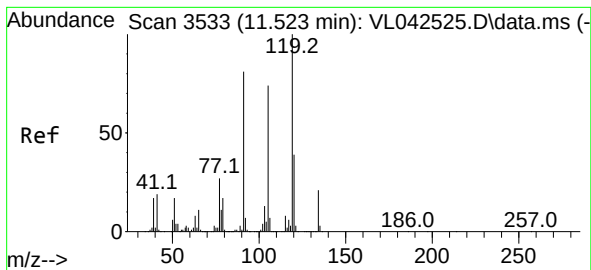
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#64
n-propylbenzene
Concen: 0.343 ppbv m
RT: 10.985 min Scan# 3367
Delta R.T. 0.006 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Tgt Ion:120 Resp: 3813
Ion Ratio Lower Upper
120 100
91 505.3 377.7 566.5





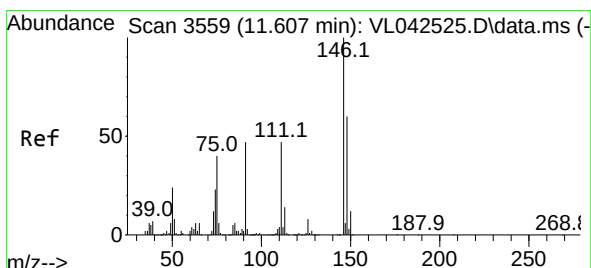
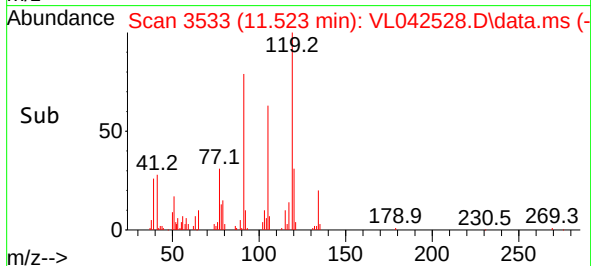
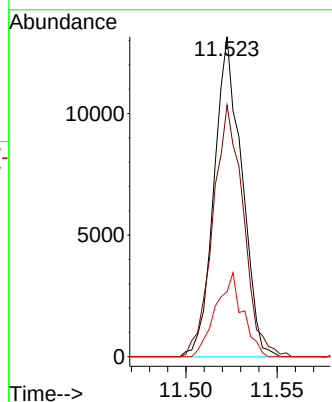
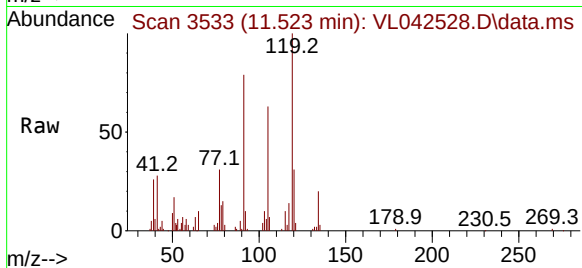
#65
tert-Butylbenzene
Concen: 0.344 ppbv
RT: 11.523 min Scan# 3533
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 119 Resp: 1386
Ion Ratio Lower Upper
119 100
91 86.4 66.6 99.8
134 25.4 16.3 24.5

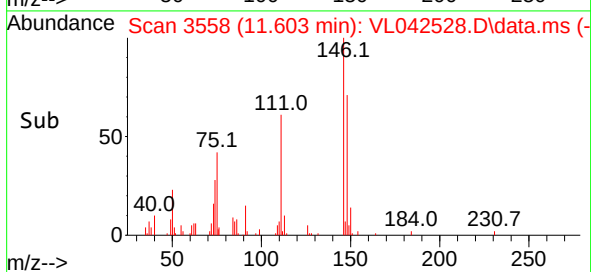
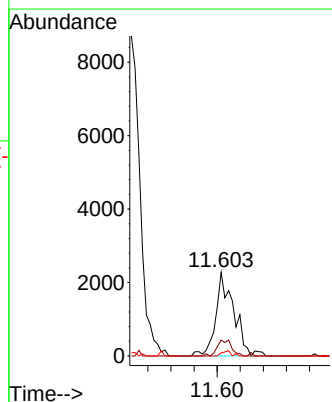
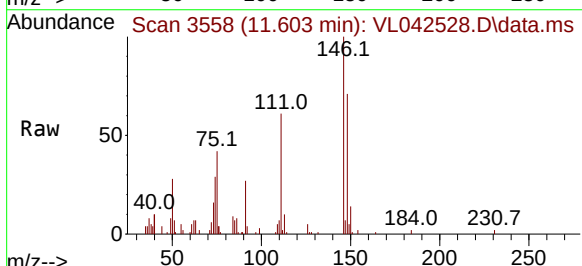
Manual Integrations
APPROVED

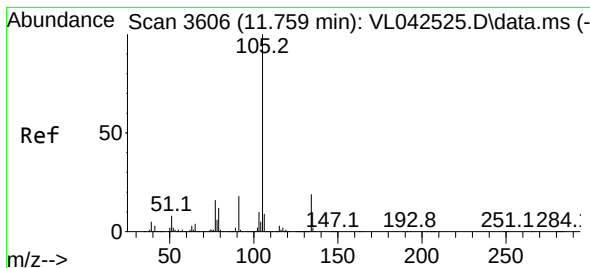
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#66
Benzyl Chloride
Concen: 0.464 ppbv m
RT: 11.603 min Scan# 3558
Delta R.T. -0.004 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

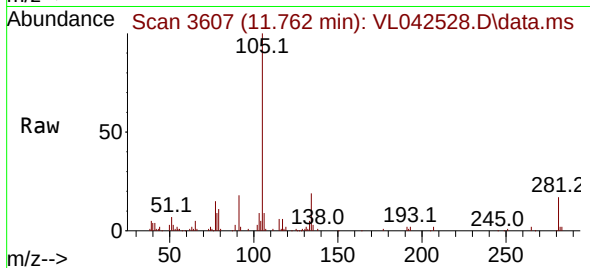
Tgt Ion: 91 Resp: 2476
Ion Ratio Lower Upper
91 100
126 0.0 13.7 20.5#
128 3.2 4.2 6.2#





#67
 sec-Butylbenzene
 Concen: 0.368 ppbv
 RT: 11.762 min Scan# 3607
 Delta R.T. 0.003 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

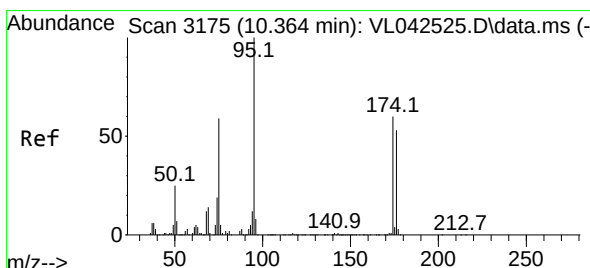
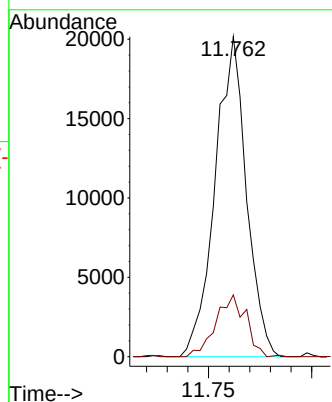
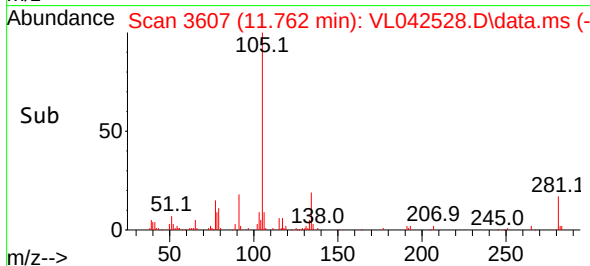
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



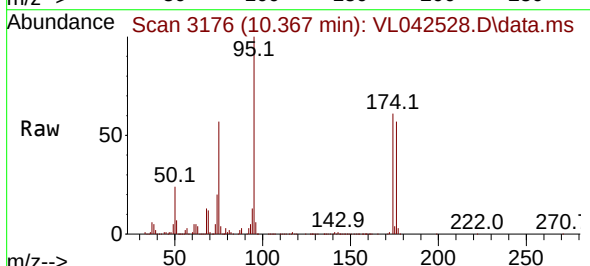
Tgt Ion: 105 Resp: 21235
 Ion Ratio Lower Upper
 105 100
 134 18.6 14.9 22.3

Manual Integrations
 APPROVED

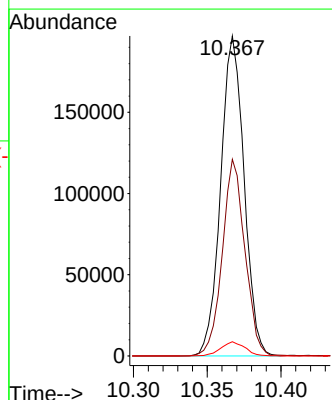
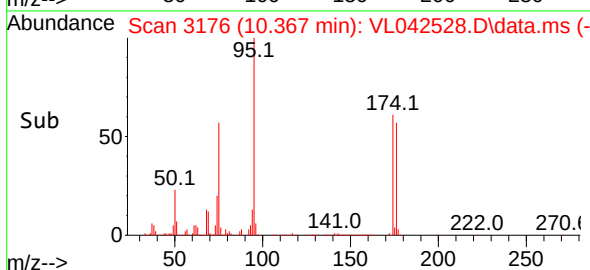
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

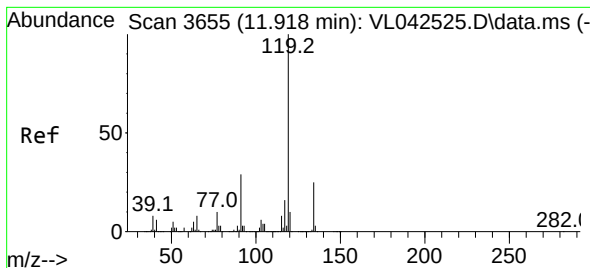


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.145 ppbv
 RT: 10.367 min Scan# 3176
 Delta R.T. 0.003 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41



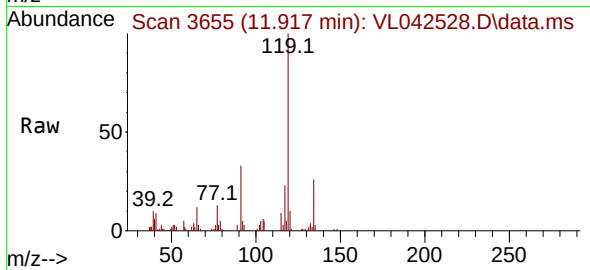
Tgt Ion: 95 Resp: 217536
 Ion Ratio Lower Upper
 95 100
 174 59.4 48.0 72.0
 175 4.6 3.5 5.3





#69
p-Isopropyltoluene
Concen: 0.317 ppbv
RT: 11.917 min Scan# 3655
Delta R.T. -0.000 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

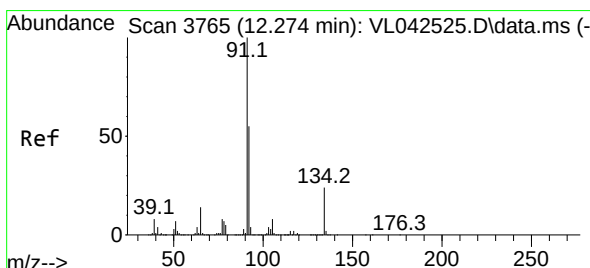
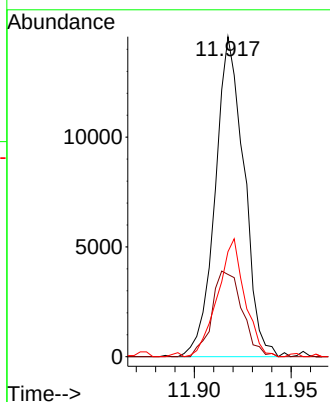
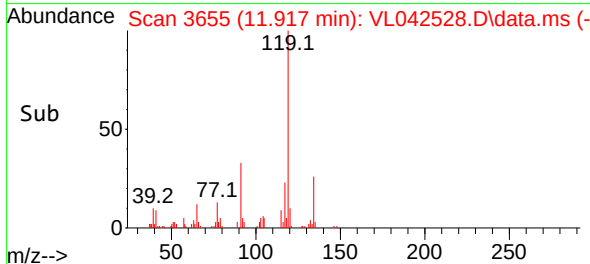
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



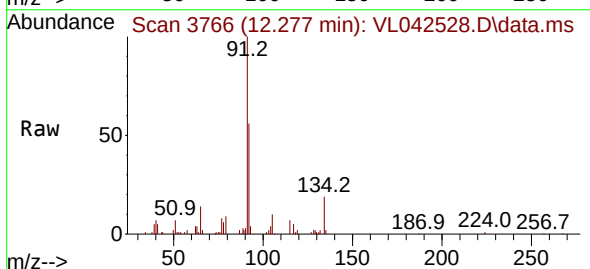
Tgt Ion: 119 Resp: 1507
Ion Ratio Lower Upper
119 100
134 28.1 19.8 29.6
91 36.2 23.6 35.4

Manual Integrations
APPROVED

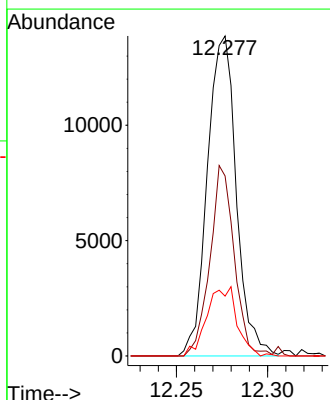
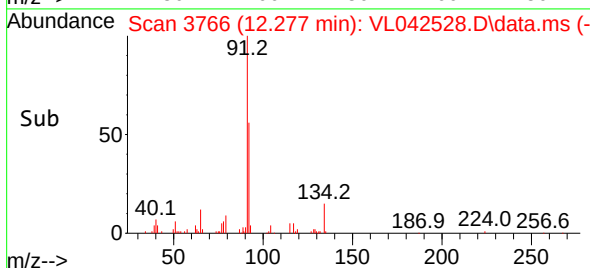
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

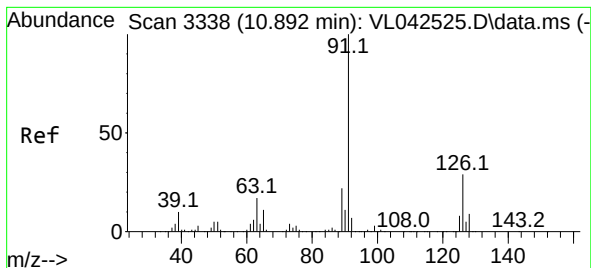


#70
n-Butylbenzene
Concen: 0.326 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41



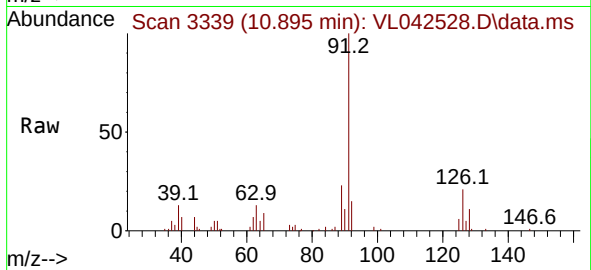
Tgt Ion: 91 Resp: 15321
Ion Ratio Lower Upper
91 100
92 50.6 43.7 65.5
134 22.5 18.9 28.3





#71
2-Chlorotoluene
Concen: 0.404 ppbv
RT: 10.895 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

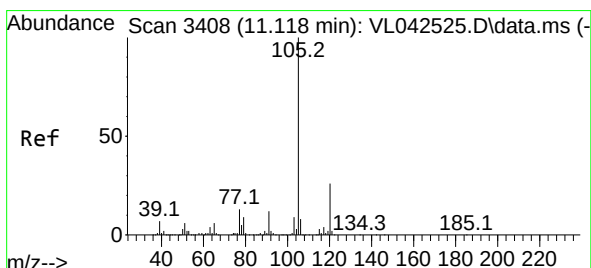
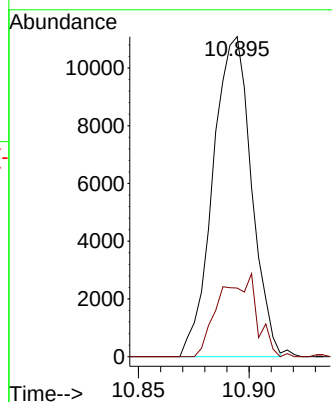
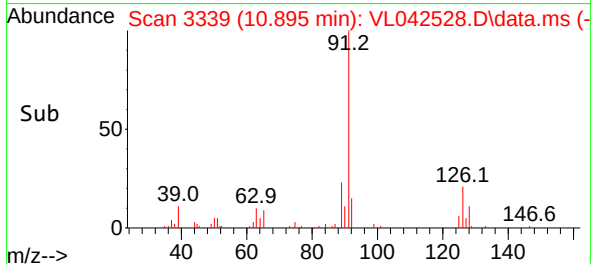
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



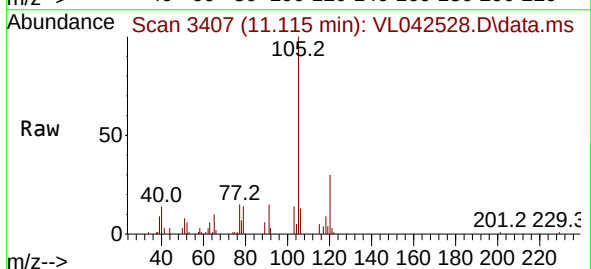
Tgt Ion: 91 Resp: 13420
Ion Ratio Lower Upper
91 100
126 25.4 11.4 45.6

Manual Integrations
APPROVED

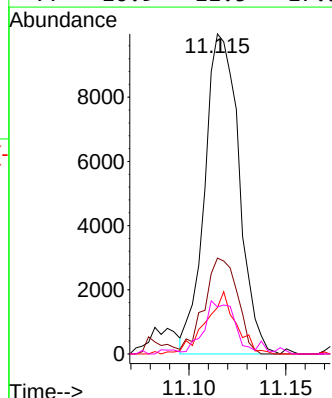
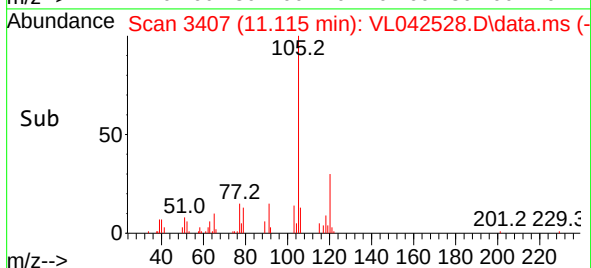
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

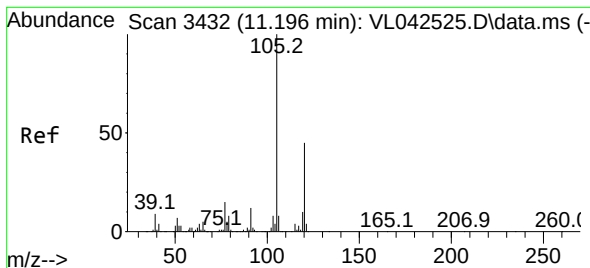


#72
4-Ethyltoluene
Concen: 0.340 ppbv
RT: 11.115 min Scan# 3407
Delta R.T. -0.004 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41



Tgt Ion:105 Resp: 12284
Ion Ratio Lower Upper
105 100
120 31.9 22.9 34.3
91 17.2 10.9 16.3#
77 16.9 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 0.342 ppbv m

RT: 11.199 min Scan# 3432

Delta R.T. 0.003 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:105 Resp: 1077

Ion Ratio Lower Upper

105 100

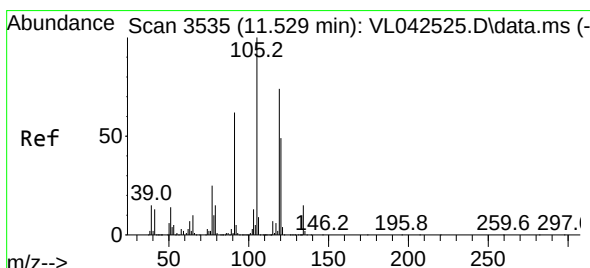
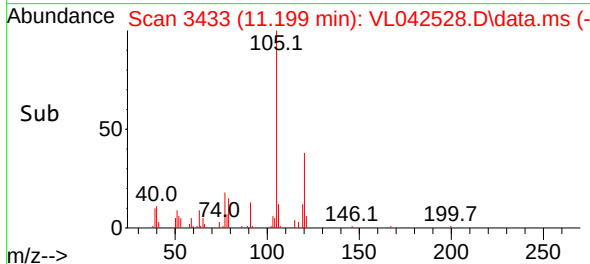
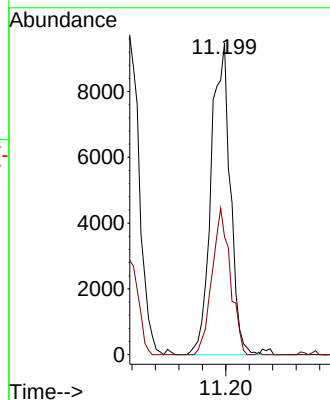
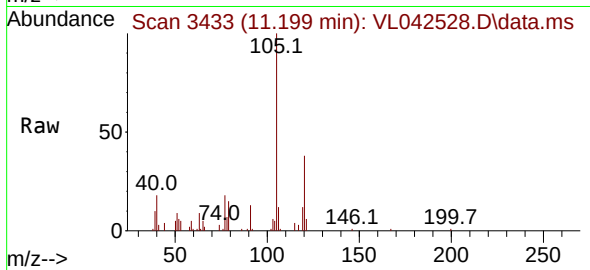
120 37.8 36.0 54.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.339 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. -0.000 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Tgt Ion:105 Resp: 13113

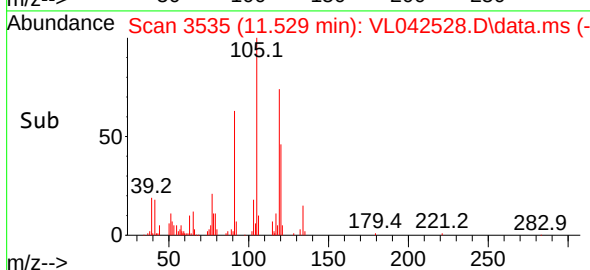
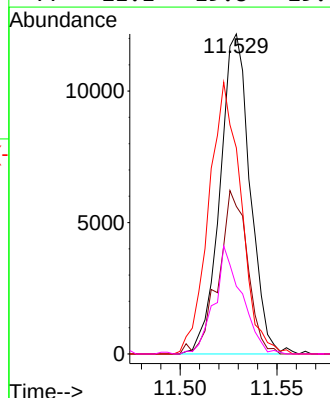
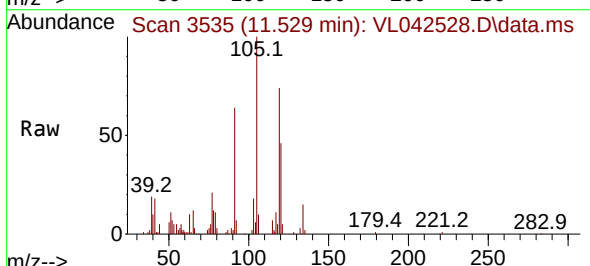
Ion Ratio Lower Upper

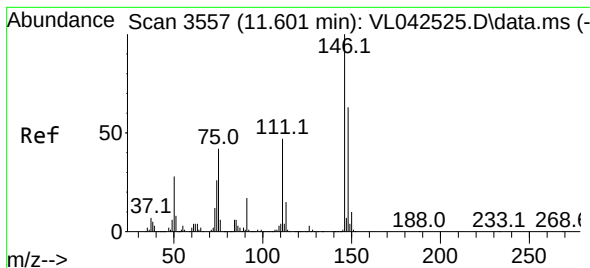
105 100

120 46.1 39.0 58.6

91 63.6 49.4 74.2

77 21.1 19.8 29.6





#75

1,3-Dichlorobenzene

Concen: 0.440 ppbv

RT: 11.600 min Scan# 3557

Delta R.T. -0.000 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Instrument :

MSVOA_L

ClientSampleId :

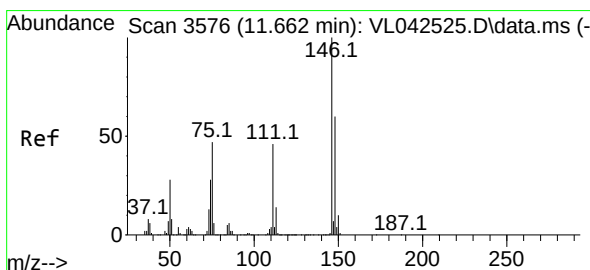
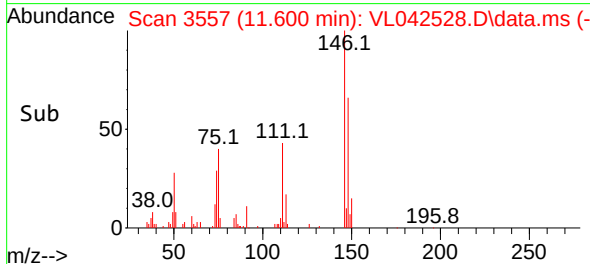
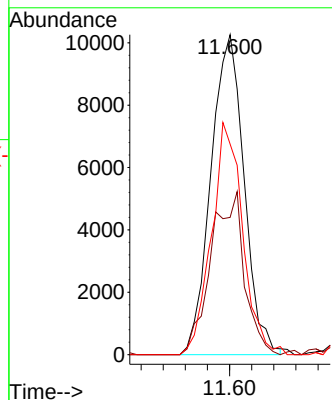
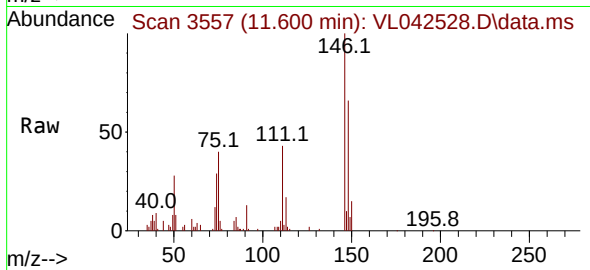
VSTDICC0.5

Tgt Ion:	146	Resp:	1068
Ion Ratio	Lower	Upper	
146	100		
111	51.7	23.6	71.0
148	68.0	31.6	94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#76

1,4-Dichlorobenzene

Concen: 0.416 ppbv

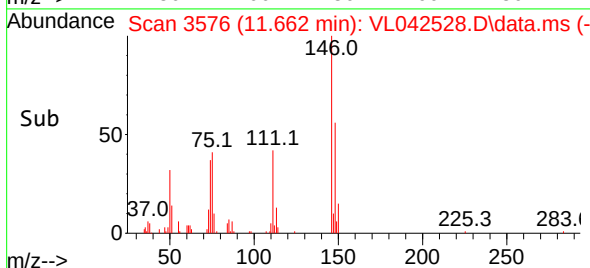
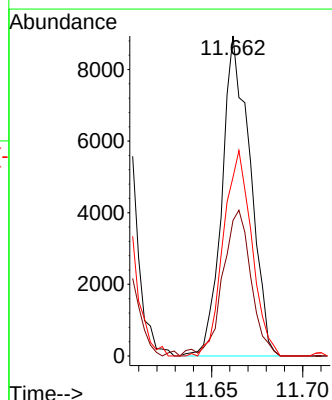
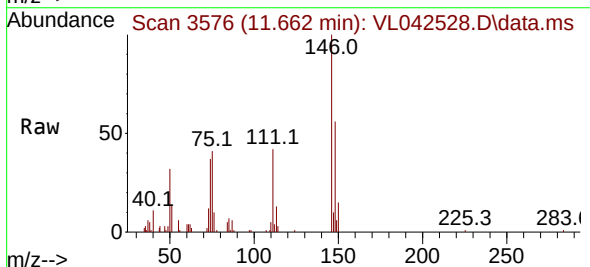
RT: 11.662 min Scan# 3576

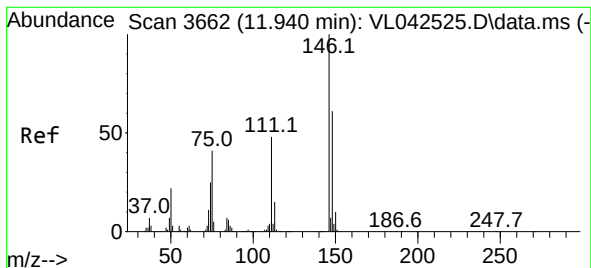
Delta R.T. -0.000 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Tgt Ion:	146	Resp:	9591
Ion Ratio	Lower	Upper	
146	100		
111	45.9	23.4	70.3
148	64.7	31.6	94.7





#77

1,2-Dichlorobenzene

Concen: 0.490 ppbv

RT: 11.940 min Scan# 30

Delta R.T. -0.000 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

Instrument :

MSVOA_L

ClientSampleId :

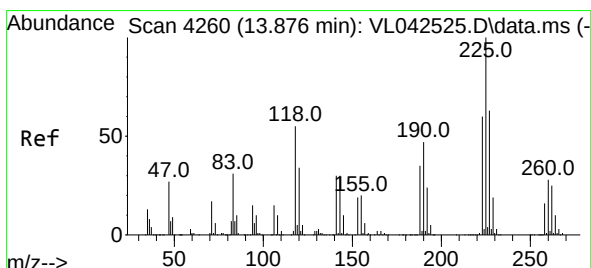
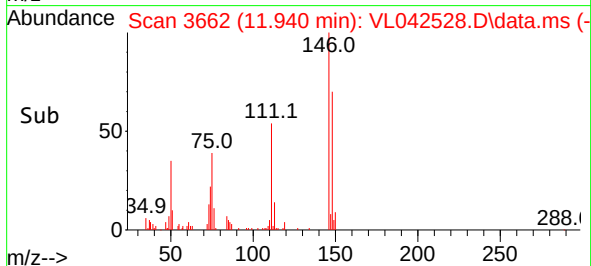
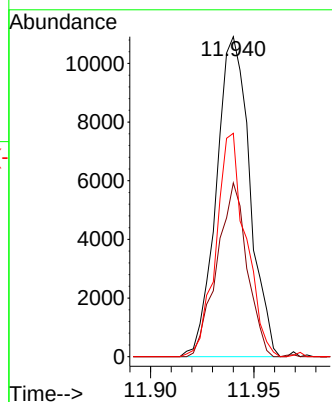
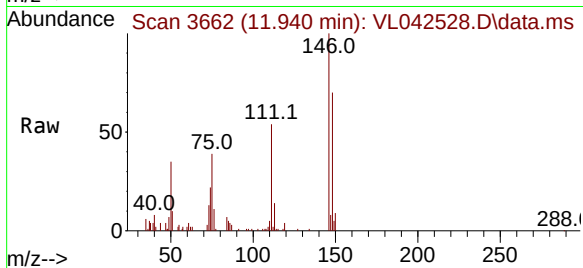
VSTDIC0.5

Tgt Ion:	146	Resp:	1227
Ion Ratio	Lower	Upper	
146	100		
111	49.1	24.9	74.8
148	62.7	31.4	94.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#78

Hexachloro-1,3-Butadiene

Concen: 0.537 ppbv

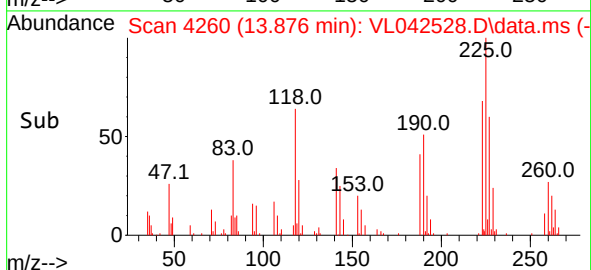
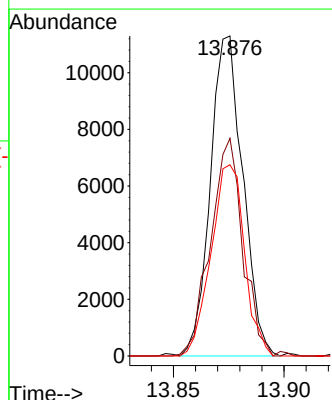
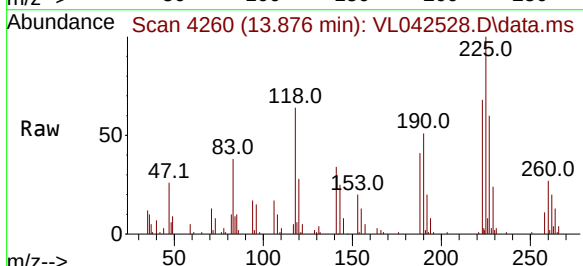
RT: 13.876 min Scan# 4260

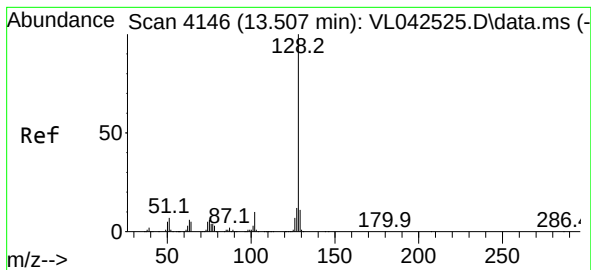
Delta R.T. -0.000 min

Lab File: VL042528.D

Acq: 12 May 2025 10:41

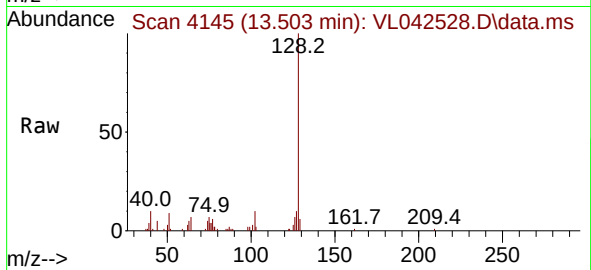
Tgt Ion:	225	Resp:	11535
Ion Ratio	Lower	Upper	
225	100		
223	67.9	50.8	76.2
227	61.5	50.5	75.7





#79
Naphthalene
Concen: 0.304 ppbv
RT: 13.503 min Scan# 4145
Delta R.T. -0.004 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41

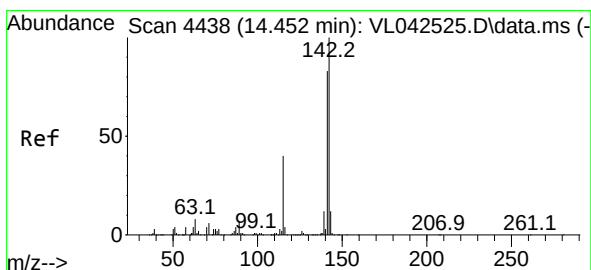
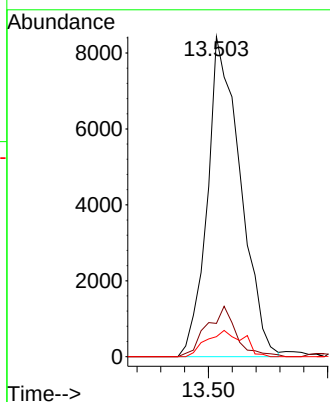
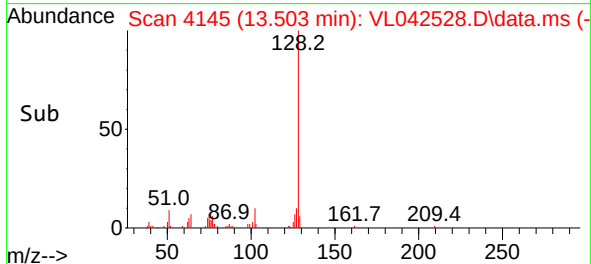
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



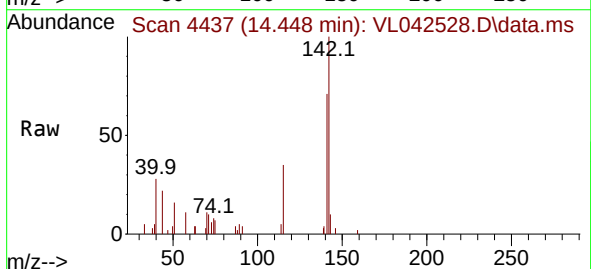
Tgt Ion:128 Resp: 813
Ion Ratio Lower Upper
128 100
127 10.4 9.8 14.8
129 6.2 8.6 12.8

Manual Integrations
APPROVED

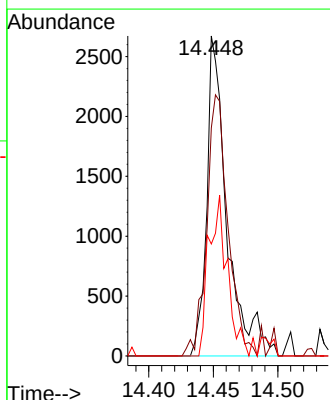
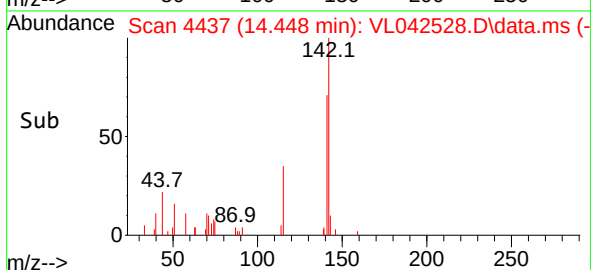
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

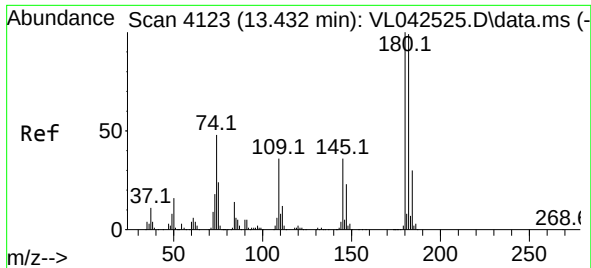


#80
Naphthalene,2-methyl-
Concen: 0.188 ppbv
RT: 14.448 min Scan# 4437
Delta R.T. -0.004 min
Lab File: VL042528.D
Acq: 12 May 2025 10:41



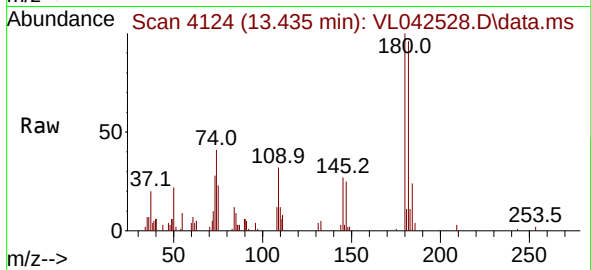
Tgt Ion:142 Resp: 2920
Ion Ratio Lower Upper
142 100
141 89.7 66.8 100.2
115 50.6 33.0 49.6





#81
 1,2,4-Trichlorobenzene
 Concen: 0.307 ppbv
 RT: 13.435 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042528.D
 Acq: 12 May 2025 10:41

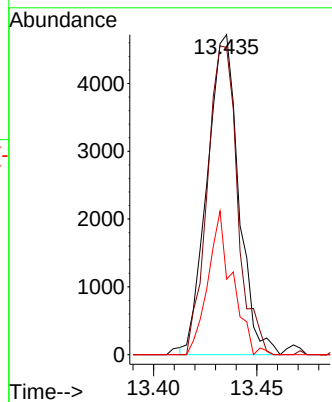
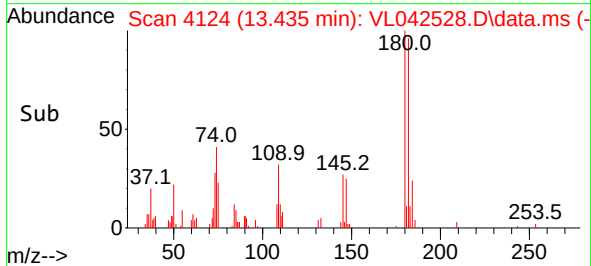
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



Tgt Ion:	180	Resp:	5010
Ion Ratio	Lower	Upper	
180	100		
182	92.7	76.6	114.8
184	34.5	24.6	36.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042529.D
 Acq On : 12 May 2025 11:15
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

Quant Time: May 12 23:48:49 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

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

QLast Update : Mon May 12 23:42:45 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.777	49	100628	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	280717	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	240256	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	201627	9.645	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.500%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.573	62	809	0.119	ppbv #	81
32) 1,1,1-Trichloroethane	3.353	97	2575	0.106	ppbv	95
35) Carbon Tetrachloride	3.755	117	2579m	0.102	ppbv	
38) Trichloroethene	4.528	130	1114m	0.105	ppbv	
52) Tetrachloroethene	8.212	164	1249m	0.130	ppbv	
54) 1,2-Dibromoethane	7.642	107	1664m	0.104	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.950	83	2392m	0.105	ppbv	
79) Naphthalene	13.510	128	1211m	0.046	ppbv	

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

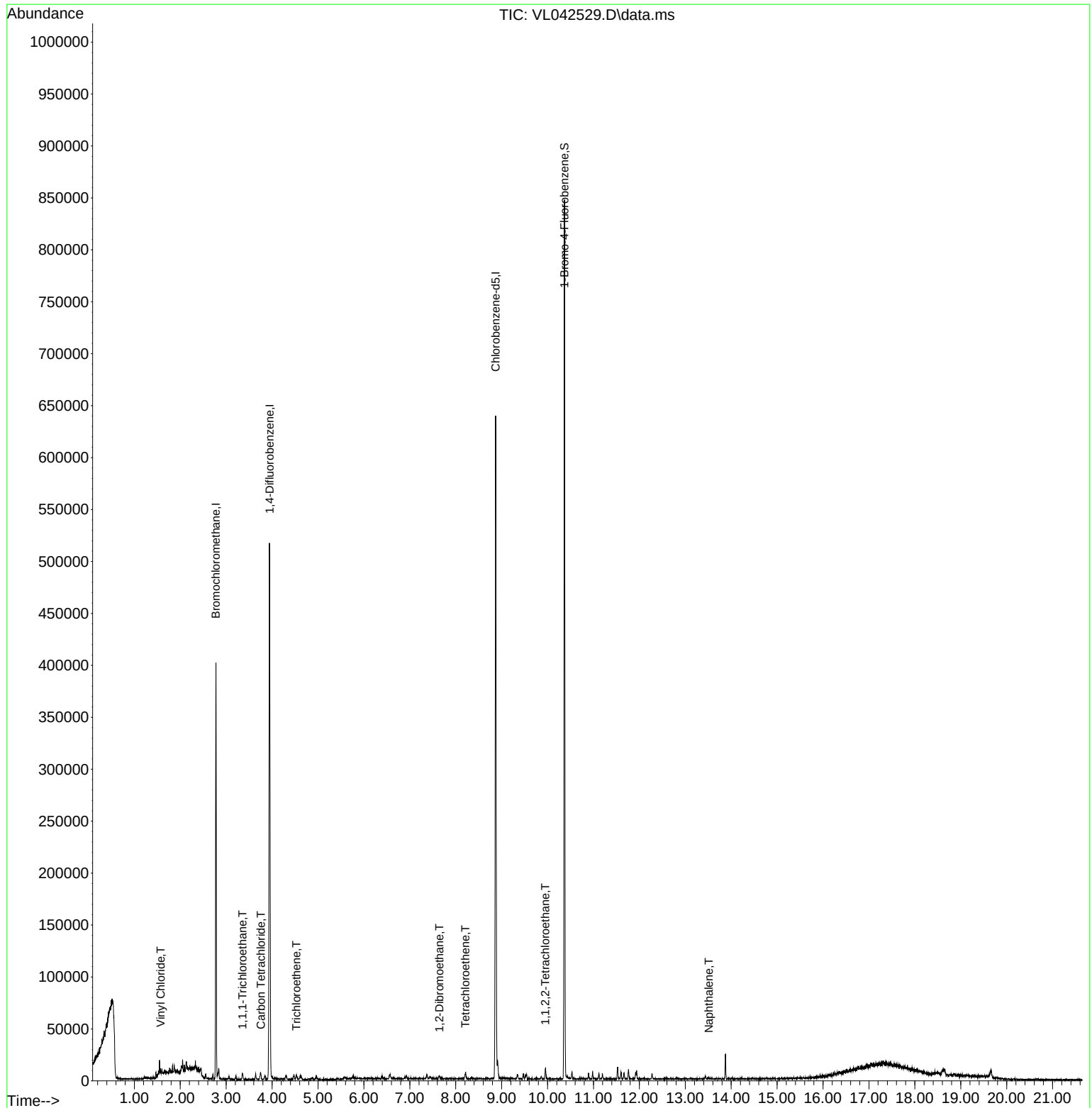
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
Data File : VL042529.D
Acq On : 12 May 2025 11:15
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

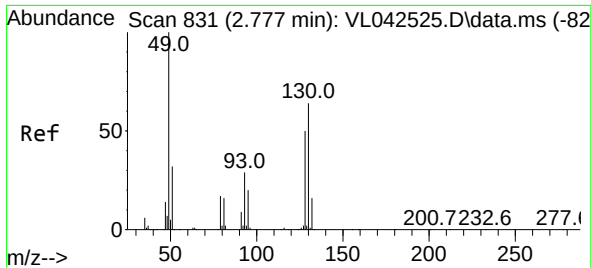
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

Quant Time: May 12 23:48:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Mon May 12 23:42:45 2025
Response via : Initial Calibration





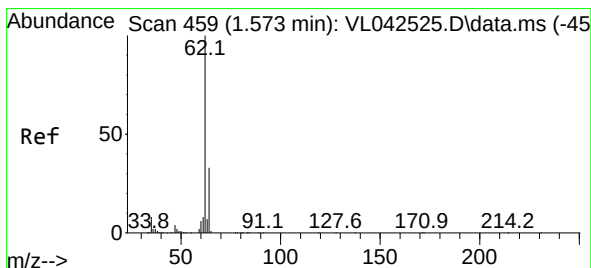
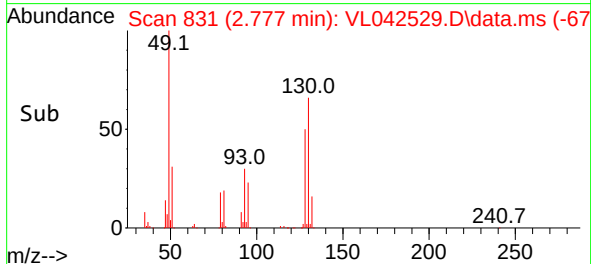
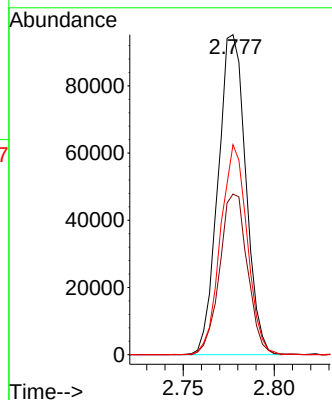
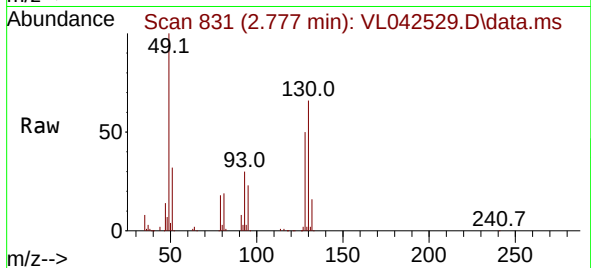
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 831
Delta R.T. 0.000 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.1

Tgt Ion: 49 Resp: 100628
Ion Ratio Lower Upper
49 100
128 50.3 24.9 74.6
130 63.2 32.5 97.5

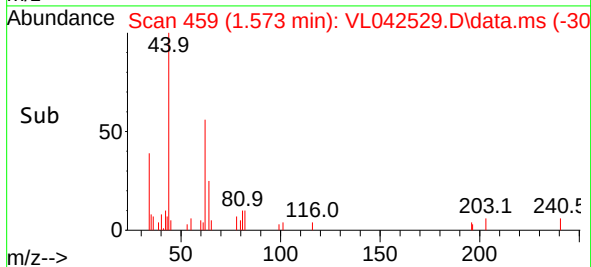
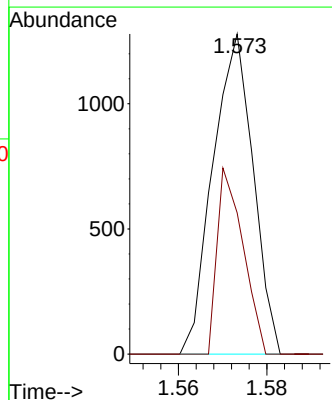
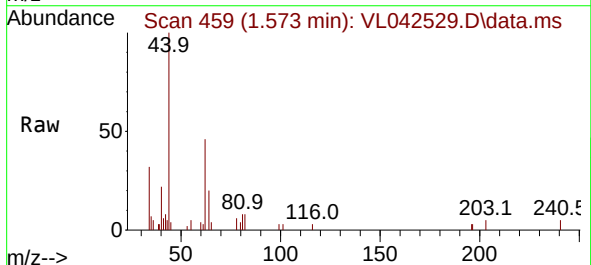
Manual Integrations
APPROVED

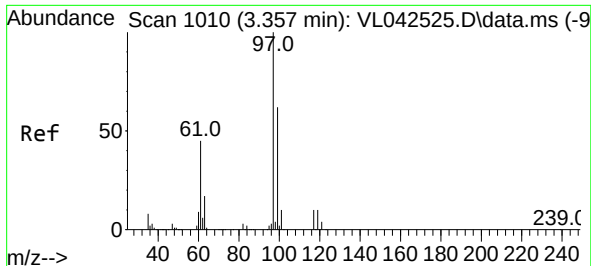
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#5
Vinyl Chloride
Concen: 0.119 ppbv
RT: 1.573 min Scan# 459
Delta R.T. -0.000 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

Tgt Ion: 62 Resp: 809
Ion Ratio Lower Upper
62 100
64 44.1 26.5 39.7#





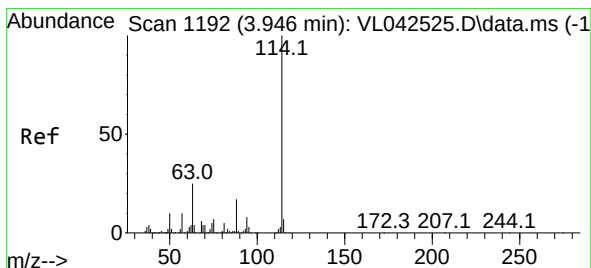
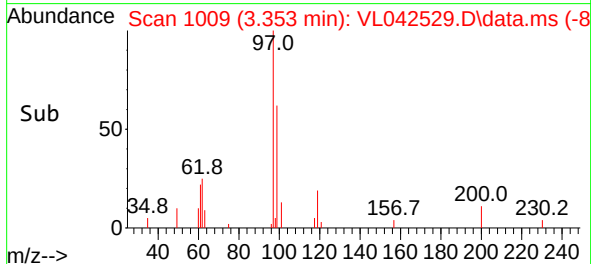
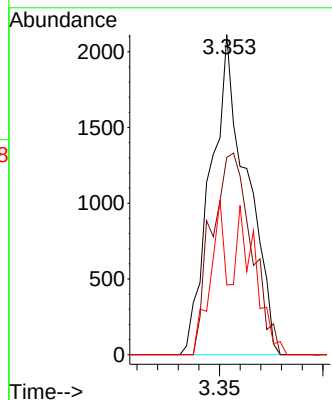
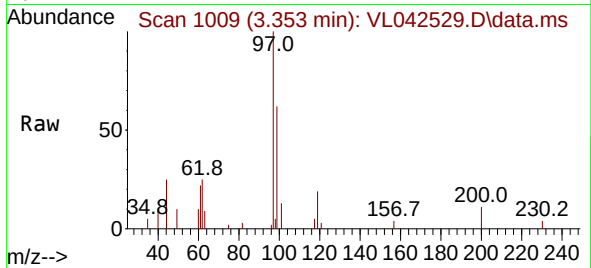
#32
1,1,1-Trichloroethane
Concen: 0.106 ppbv
RT: 3.353 min Scan# 1009
Delta R.T. -0.003 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.1

Tgt Ion: 97 Resp: 257
Ion Ratio Lower Upper
97 100
99 69.6 50.1 75.1
61 47.6 38.2 57.2

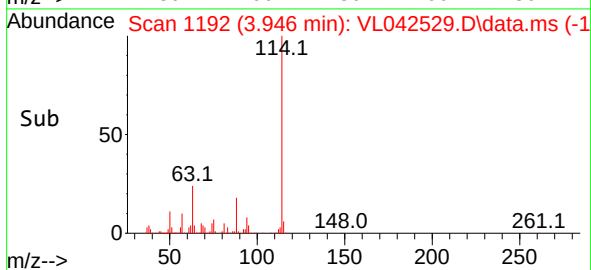
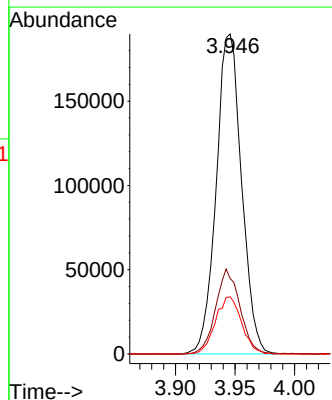
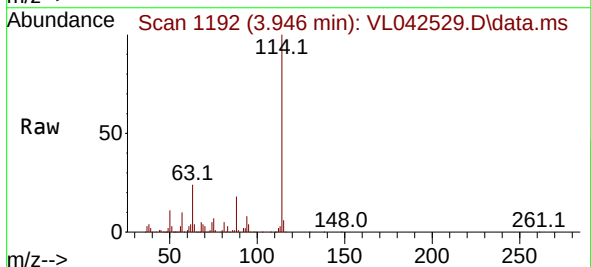
Manual Integrations
APPROVED

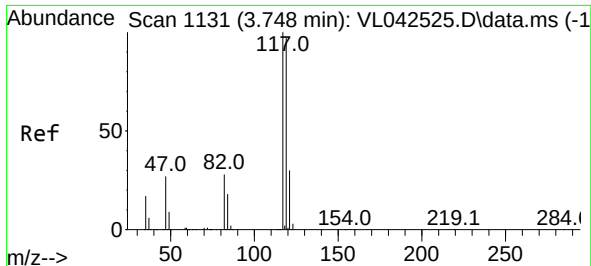
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.946 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

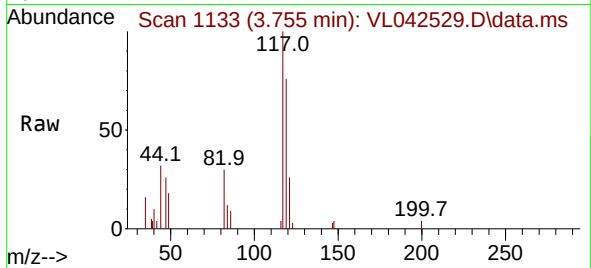
Tgt Ion:114 Resp: 280717
Ion Ratio Lower Upper
114 100
63 25.5 20.4 30.6
88 18.4 14.5 21.7





#35
Carbon Tetrachloride
Concen: 0.102 ppbv m
RT: 3.755 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

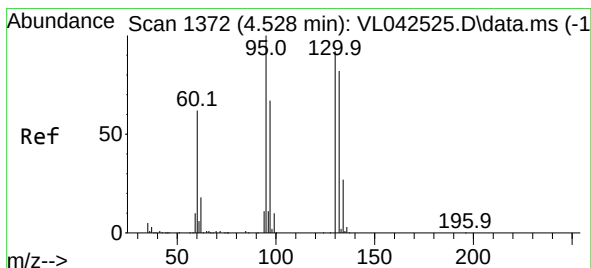
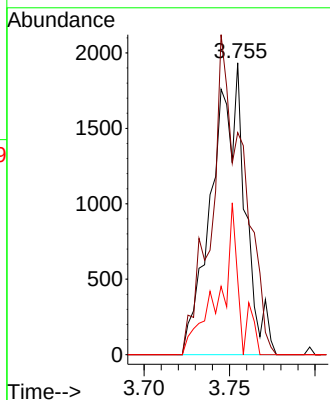
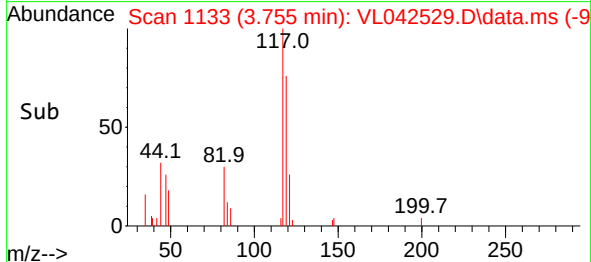
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



Tgt Ion:117 Resp: 2579
Ion Ratio Lower Upper
117 100
119 76.1 77.7 116.5
121 25.6 24.0 36.0

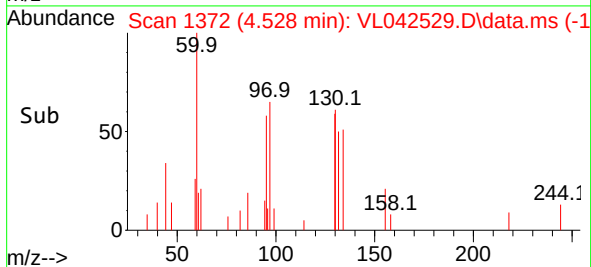
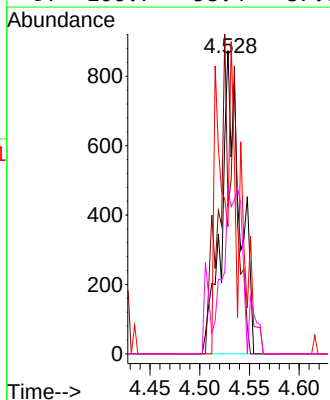
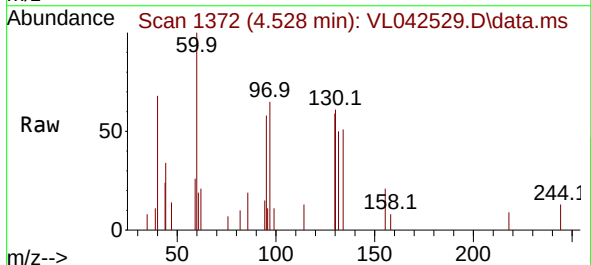
Manual Integrations
APPROVED

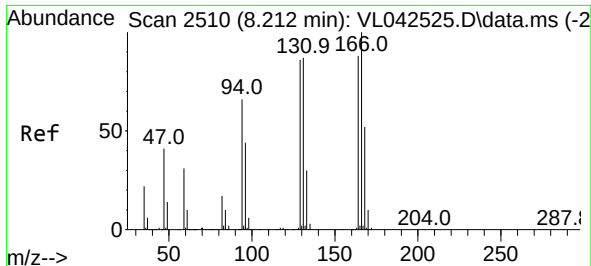
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#38
Trichloroethene
Concen: 0.105 ppbv m
RT: 4.528 min Scan# 1372
Delta R.T. -0.000 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

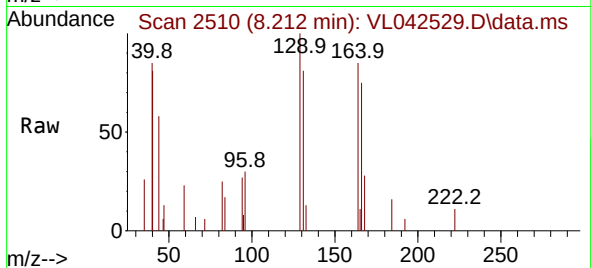
Tgt Ion:130 Resp: 1114
Ion Ratio Lower Upper
130 100
95 95.1 87.0 130.4
132 82.1 71.1 106.7
97 106.7 58.4 87.6#





#52
Tetrachloroethene
Concen: 0.130 ppbv m
RT: 8.212 min Scan# 2510
Delta R.T. -0.000 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

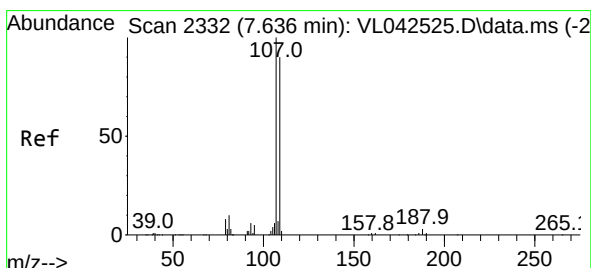
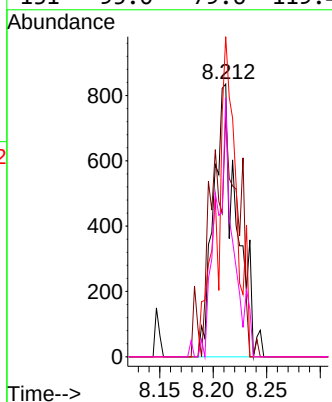
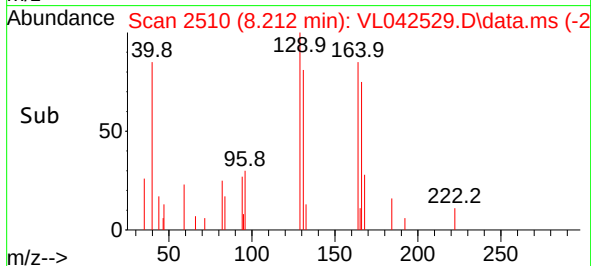
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



Tgt Ion:164 Resp: 1249
Ion Ratio Lower Upper
164 100
166 88.1 91.3 136.9
129 117.4 78.9 118.3
131 95.0 79.6 119.4

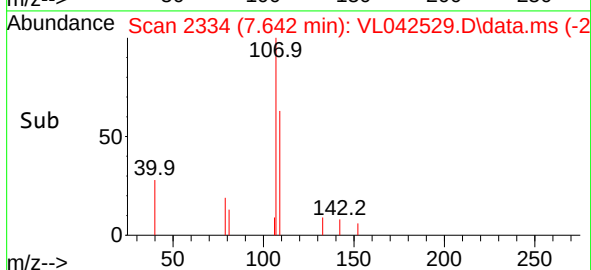
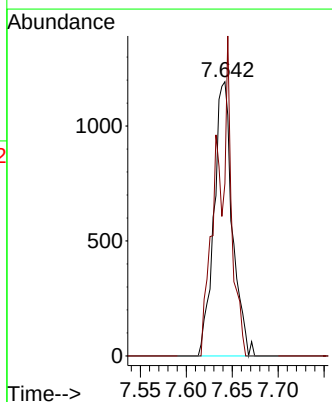
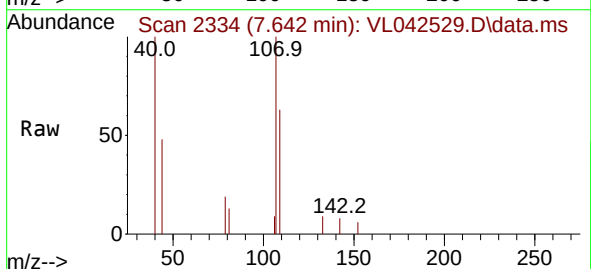
Manual Integrations
APPROVED

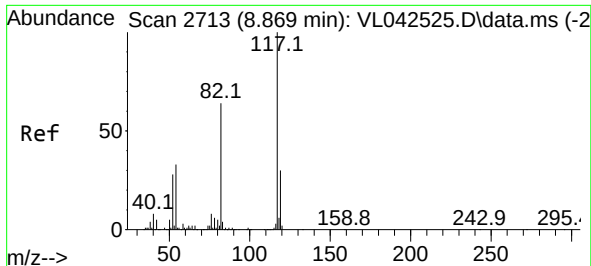
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#54
1,2-Dibromoethane
Concen: 0.104 ppbv m
RT: 7.642 min Scan# 2334
Delta R.T. 0.006 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

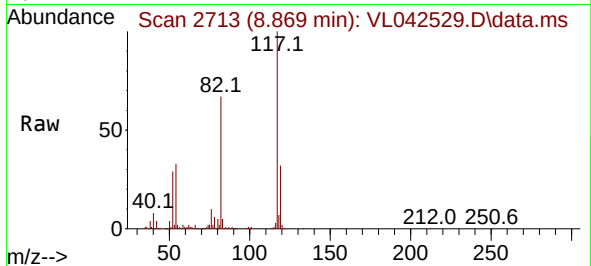
Tgt Ion:107 Resp: 1664
Ion Ratio Lower Upper
107 100
109 62.9 72.2 108.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

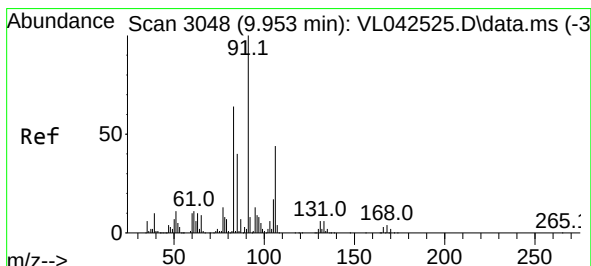
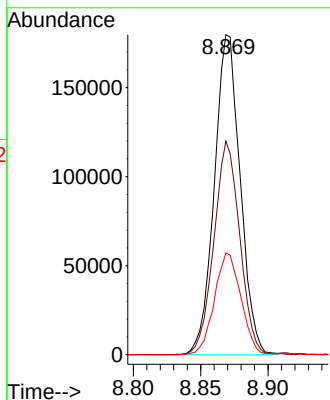
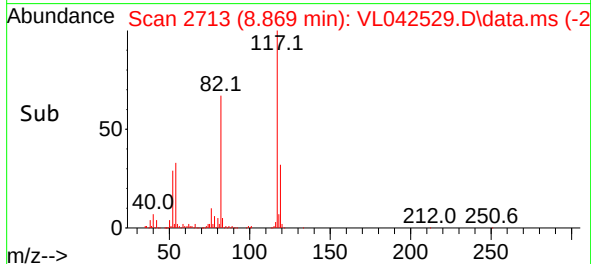
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



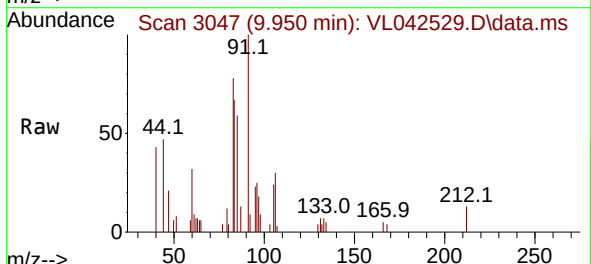
Tgt Ion: 117 Resp: 240250
Ion Ratio Lower Upper
117 100
82 66.7 55.0 82.4
119 32.9 25.8 38.6

Manual Integrations
APPROVED

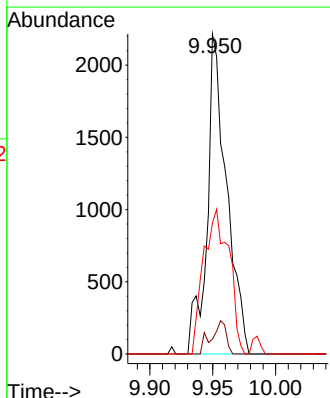
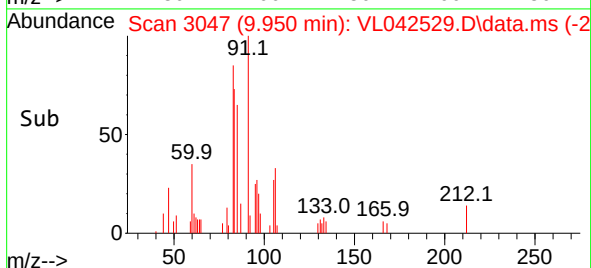
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

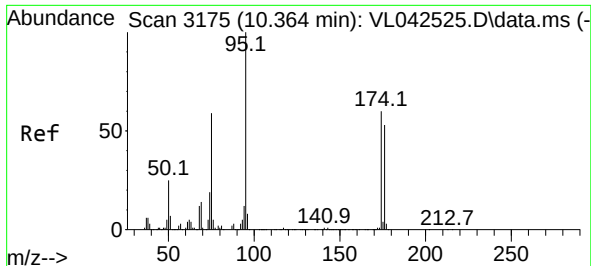


#63
1,1,2,2-Tetrachloroethane
Concen: 0.105 ppbv m
RT: 9.950 min Scan# 3047
Delta R.T. -0.003 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15



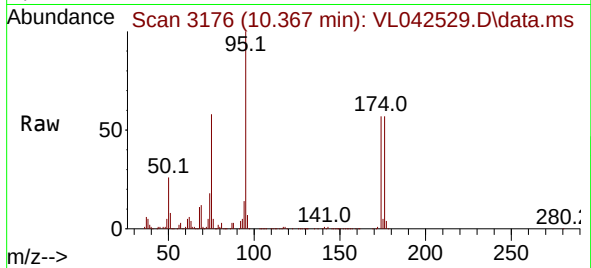
Tgt Ion: 83 Resp: 2392
Ion Ratio Lower Upper
83 100
131 7.9 4.9 14.7
85 61.3 32.3 96.8





#68
1-Bromo-4-Fluorobenzene
Concen: 9.645 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. 0.003 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

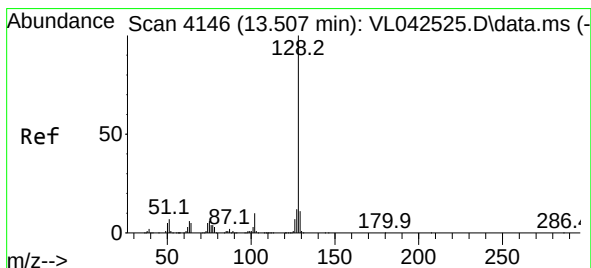
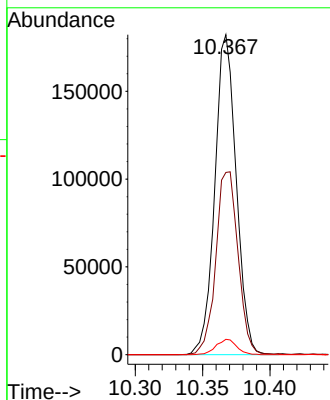
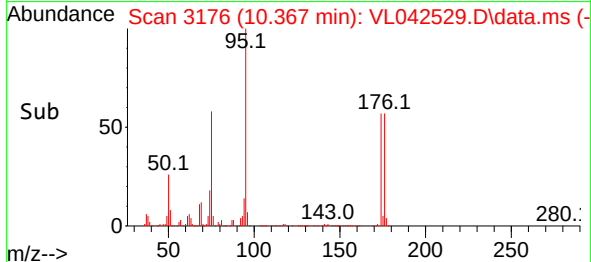
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



Tgt Ion: 95 Resp: 20162
Ion Ratio Lower Upper
95 100
174 59.9 48.0 72.0
175 4.6 3.5 5.3

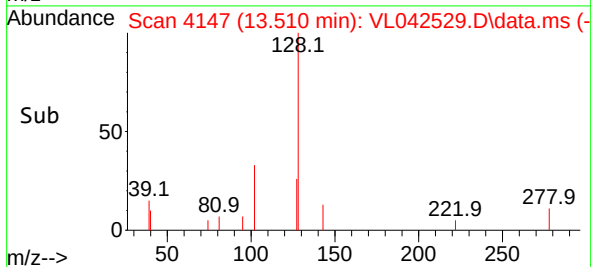
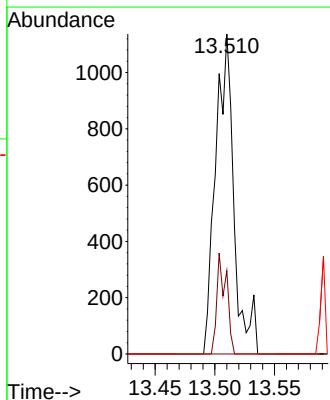
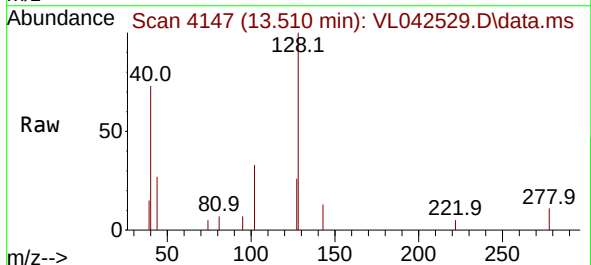
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#79
Naphthalene
Concen: 0.046 ppbv m
RT: 13.510 min Scan# 4147
Delta R.T. 0.003 min
Lab File: VL042529.D
Acq: 12 May 2025 11:15

Tgt Ion:128 Resp: 1211
Ion Ratio Lower Upper
128 100
127 26.0 9.8 14.8#
129 0.0 8.6 12.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042530.D
 Acq On : 12 May 2025 11:49
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

Quant Time: May 12 23:49:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Mon May 12 23:42:45 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.780	49	96870	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	261294	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	223954	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	190537	9.778	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.800%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.576	62	229	0.035	ppbv	# 4
32) 1,1,1-Trichloroethane	3.360	97	842m	0.036	ppbv	
35) Carbon Tetrachloride	3.761	117	785m	0.033	ppbv	
38) Trichloroethene	4.531	130	361m	0.036	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.959	83	786m	0.037	ppbv	

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

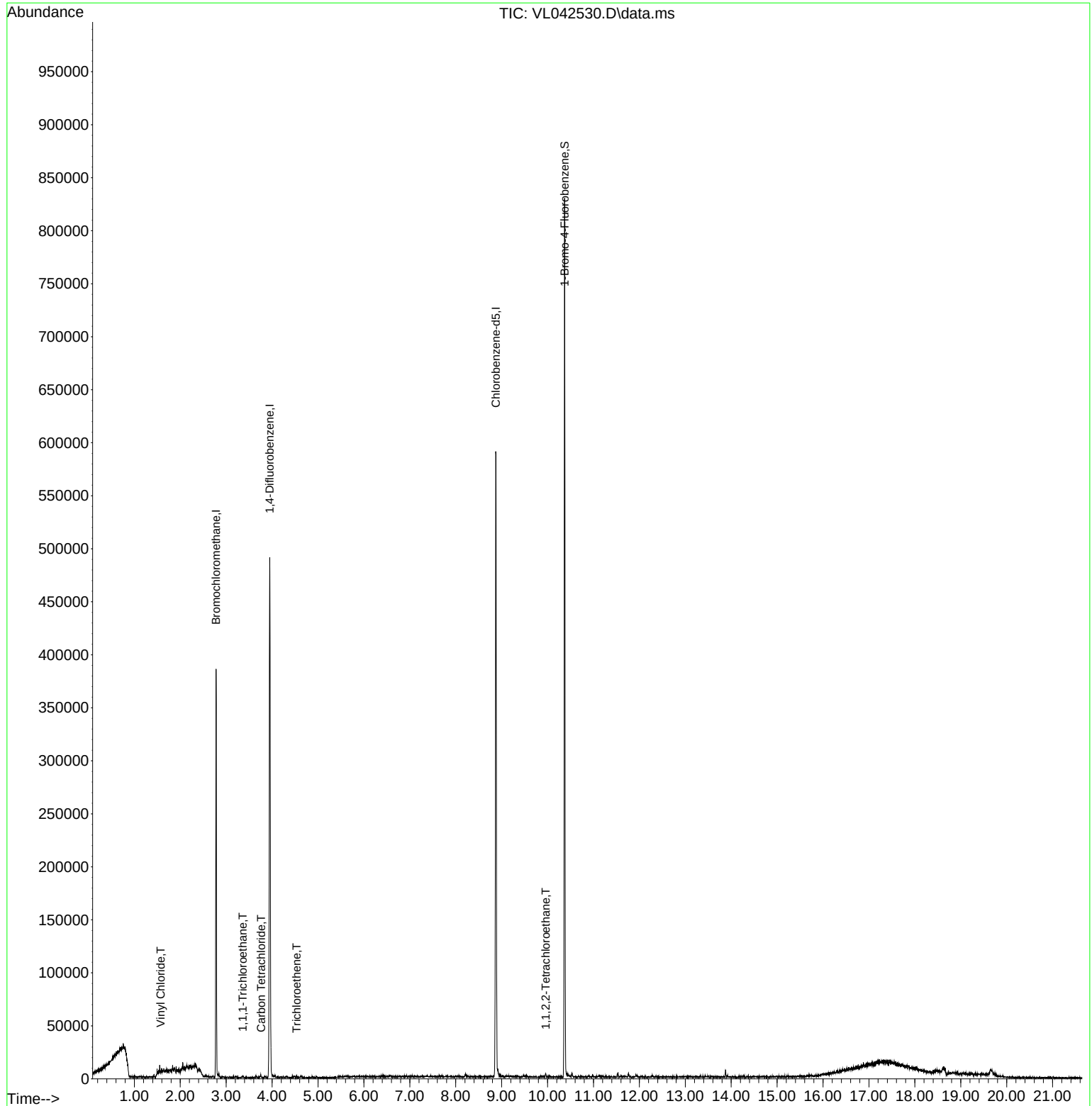
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
Data File : VL042530.D
Acq On : 12 May 2025 11:49
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

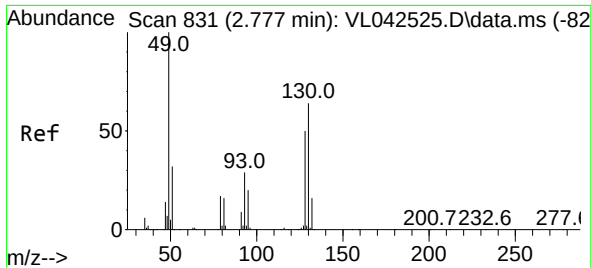
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

Quant Time: May 12 23:49:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Mon May 12 23:42:45 2025
Response via : Initial Calibration





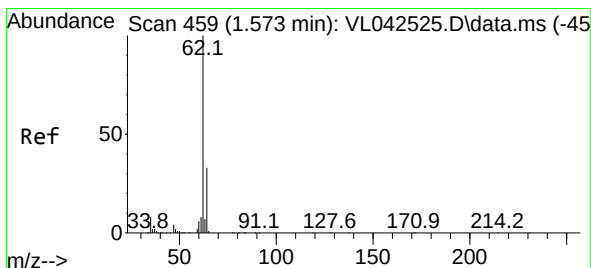
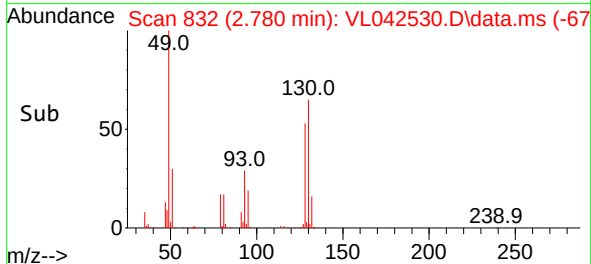
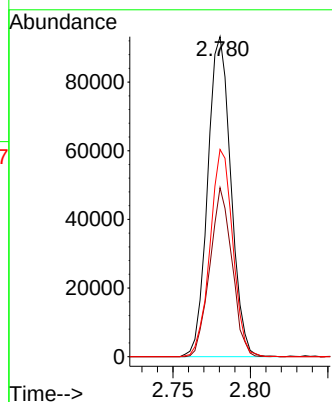
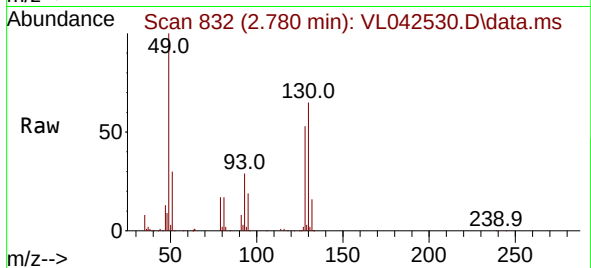
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 49 Resp: 96870
Ion Ratio Lower Upper
49 100
128 50.2 24.9 74.6
130 63.5 32.5 97.5

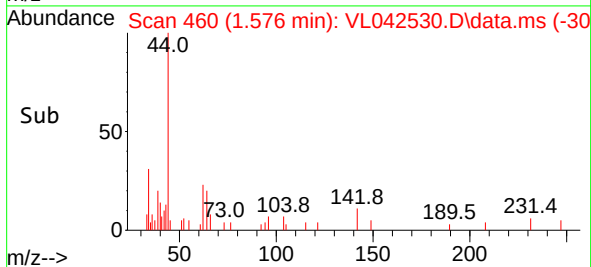
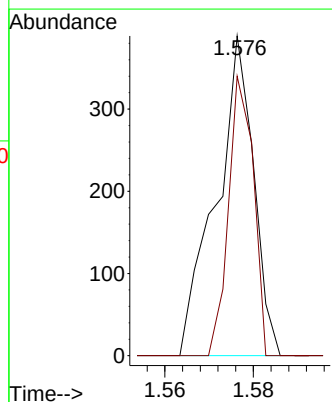
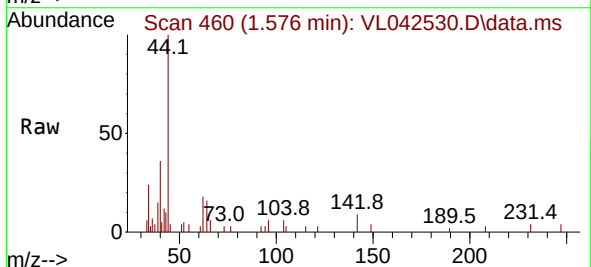
Manual Integrations
APPROVED

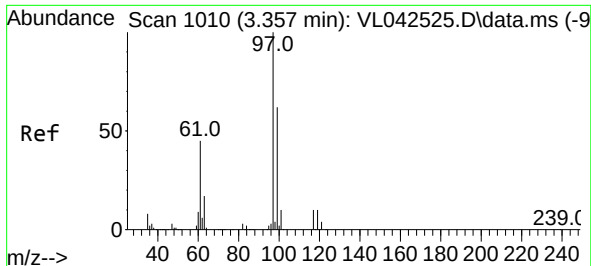
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#5
Vinyl Chloride
Concen: 0.035 ppbv
RT: 1.576 min Scan# 460
Delta R.T. 0.003 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

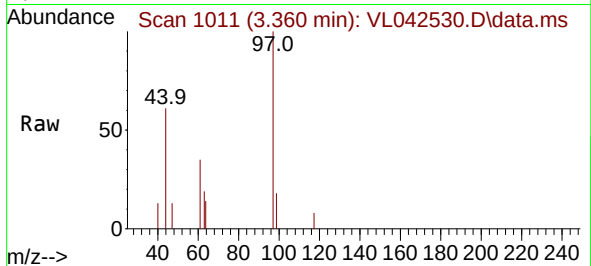
Tgt Ion: 62 Resp: 229
Ion Ratio Lower Upper
62 100
64 87.4 26.5 39.7#





#32
1,1,1-Trichloroethane
Concen: 0.036 ppbv m
RT: 3.360 min Scan# 1011
Delta R.T. 0.003 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

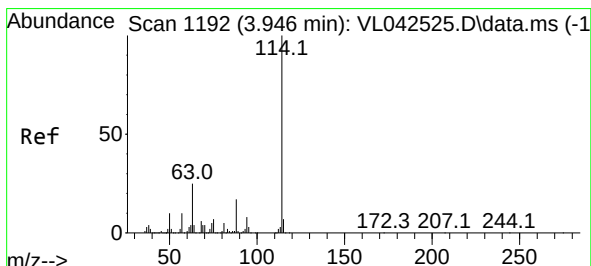
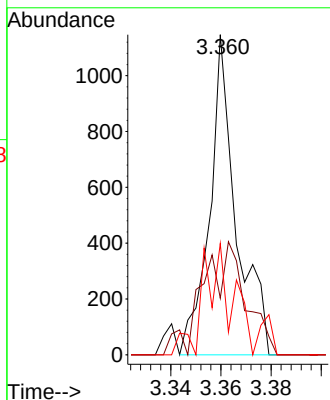
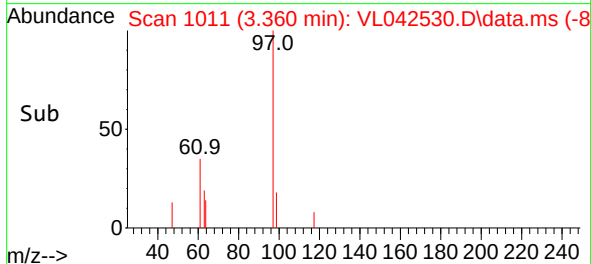
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



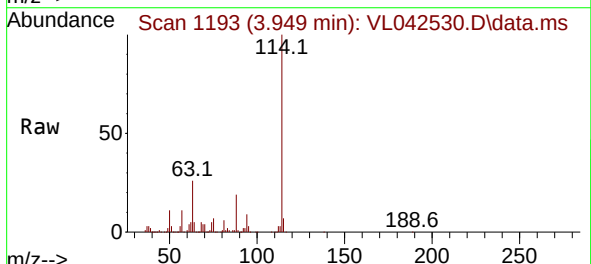
Tgt Ion: 97 Resp: 842
Ion Ratio Lower Upper
97 100
99 57.2 50.1 75.1
61 43.5 38.2 57.2

Manual Integrations
APPROVED

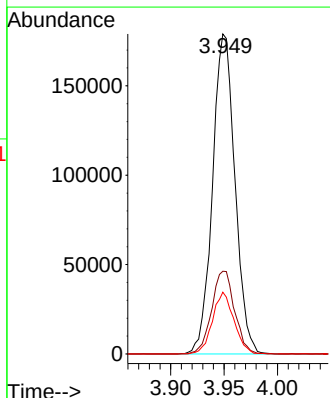
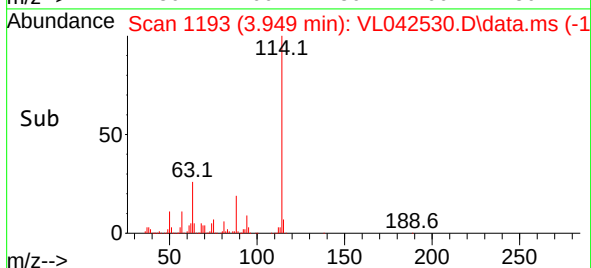
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

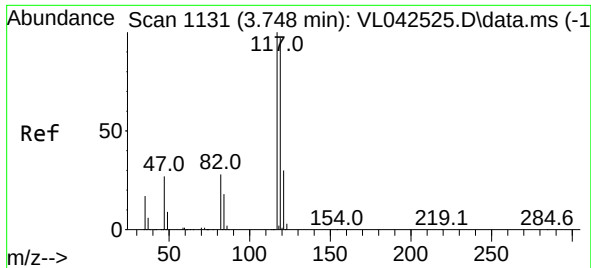


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. 0.003 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49



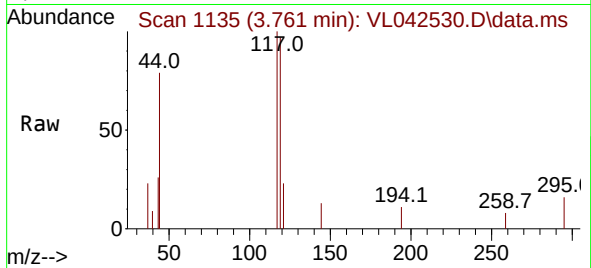
Tgt Ion:114 Resp: 261294
Ion Ratio Lower Upper
114 100
63 26.5 20.4 30.6
88 18.6 14.5 21.7





#35
Carbon Tetrachloride
Concen: 0.033 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. 0.013 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

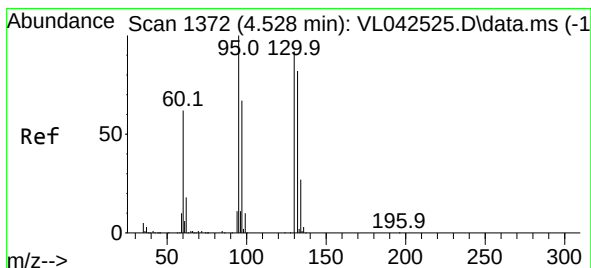
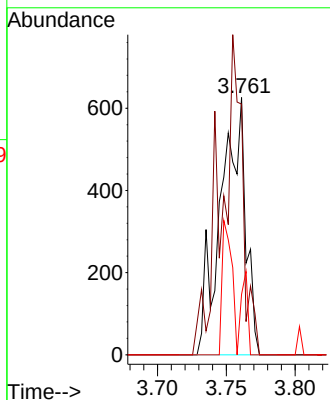
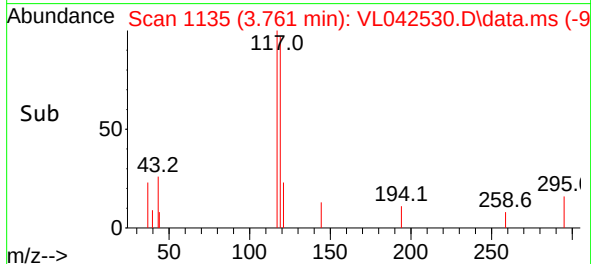
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



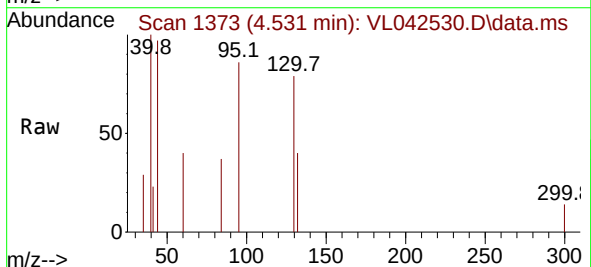
Tgt Ion:117 Resp: 789
Ion Ratio Lower Upper
117 100
119 97.4 77.7 116.5
121 23.5 24.0 36.0

Manual Integrations
APPROVED

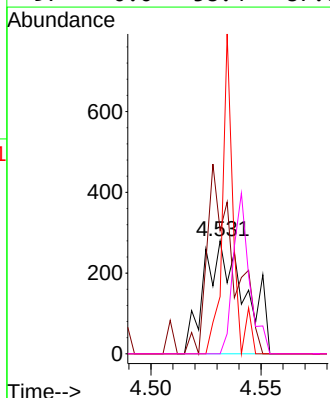
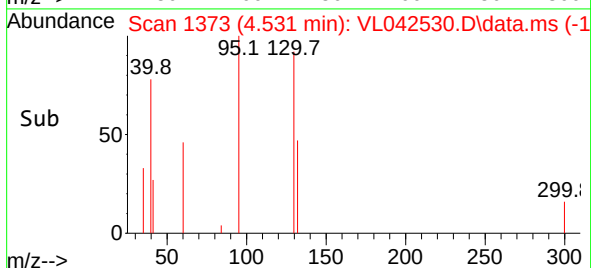
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

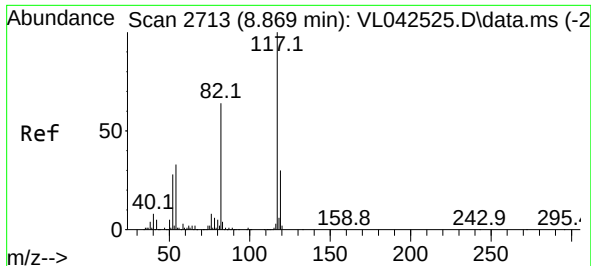


#38
Trichloroethene
Concen: 0.036 ppbv m
RT: 4.531 min Scan# 1373
Delta R.T. 0.003 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49



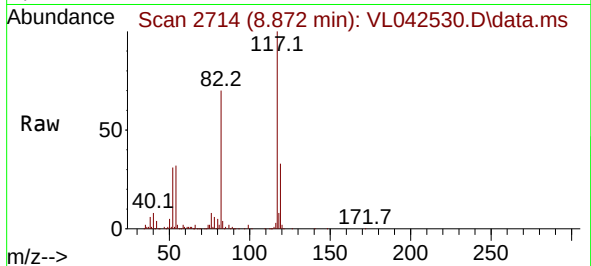
Tgt Ion:130 Resp: 361
Ion Ratio Lower Upper
130 100
95 108.9 87.0 130.4
132 50.7 71.1 106.7#
97 0.0 58.4 87.6#





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2117
Delta R.T. 0.003 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49

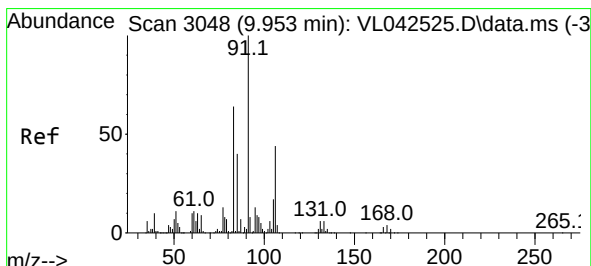
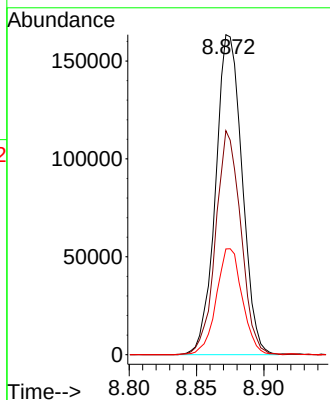
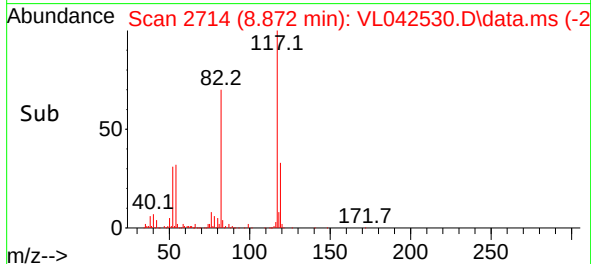
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



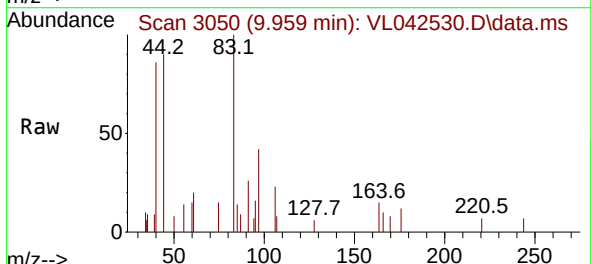
Tgt Ion: 117 Resp: 223954
Ion Ratio Lower Upper
117 100
82 66.6 55.0 82.4
119 32.6 25.8 38.6

Manual Integrations
APPROVED

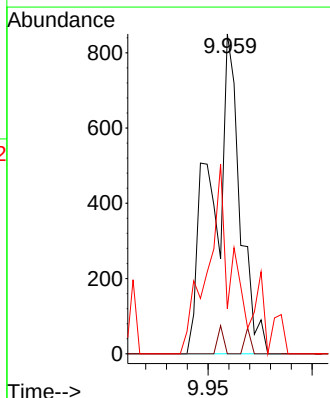
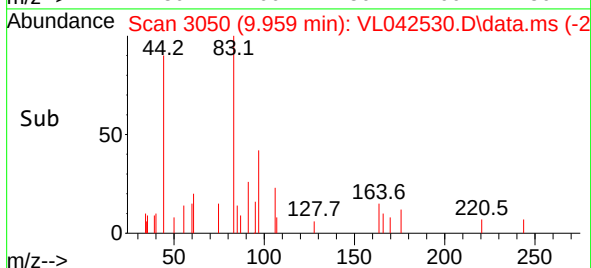
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

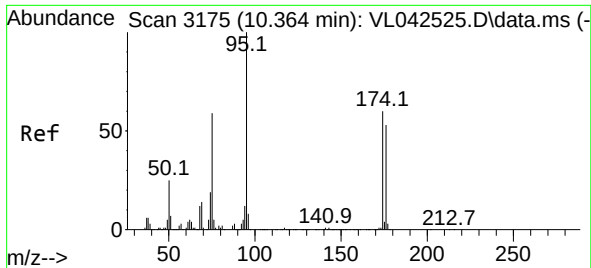


#63
1,1,2,2-Tetrachloroethane
Concen: 0.037 ppbv m
RT: 9.959 min Scan# 3050
Delta R.T. 0.006 min
Lab File: VL042530.D
Acq: 12 May 2025 11:49



Tgt Ion: 83 Resp: 786
Ion Ratio Lower Upper
83 100
131 0.0 4.9 14.7#
85 63.6 32.3 96.8





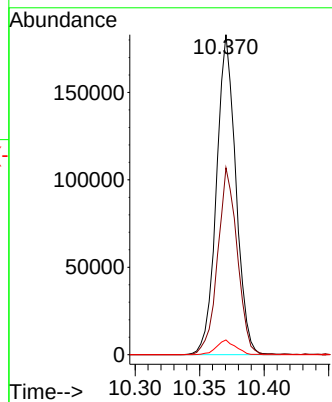
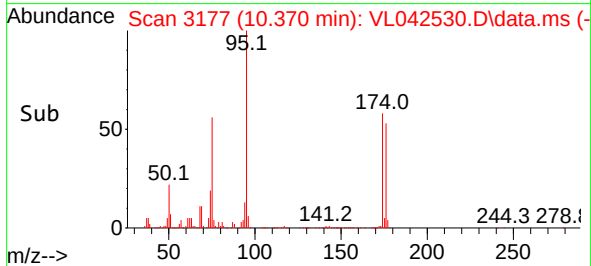
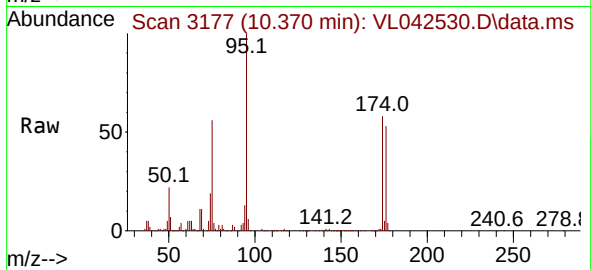
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.778 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. 0.006 min
 Lab File: VL042530.D
 Acq: 12 May 2025 11:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Tgt Ion	Ratio	Lower	Upper
95	100		
174	59.3	48.0	72.0
175	4.5	3.5	5.3

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042532.D
 Acq On : 12 May 2025 12:58
 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 05/14/2025
 Supervised By : Mahesh Dadoda 05/14/2025

Quant Time: May 12 23:50:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

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

QLast Update : Mon May 12 23:42:45 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	103341	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	300628	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	251305	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 223868 10.238 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	34904	2.080	ppbv	96
3) Chlorodifluoromethane	1.473	51	37203	2.175	ppbv	99
4) Chloromethane	1.528	50	15355	2.242	ppbv	98
5) Vinyl Chloride	1.577	62	13527	1.930	ppbv	100
6) Bromomethane	1.664	94	6881	2.068	ppbv	92
7) Chloroethane	1.703	64	6208m	2.251	ppbv	
8) Dichlorotetrafluoroethane	1.551	85	29662	2.054	ppbv	98
9) Propene	1.479	41	3429	0.923	ppbv #	1
10) Heptane	4.975	43	28195	1.991	ppbv	97
11) Trichlorofluoromethane	1.874	101	34879	2.161	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.136	101	27757	2.141	ppbv	95
13) Ethanol	1.719	45	1983	1.956	ppbv	89
14) Bromoethene	1.780	108	10359	2.192	ppbv	95
15) Acetone	1.832	43	37463	2.269	ppbv	98
16) 1,3-Butadiene	1.606	39	15833	2.132	ppbv	95
17) tert-Butyl alcohol	2.039	59	30915	2.026	ppbv	98
18) 1,1-Dichloroethene	2.033	96	11781	2.073	ppbv	87
19) Isopropyl Alcohol	1.884	45	18501	2.062	ppbv #	95
20) Methylene Chloride	2.059	84	11357	1.975	ppbv	93
21) Allyl Chloride	2.094	41	22565	2.064	ppbv	96
22) trans-1,2-Dichloroethene	2.337	96	14573	2.193	ppbv	81
23) Vinyl Acetate	2.460	43	34320	1.985	ppbv #	97
24) 1,1-Dichloroethane	2.405	63	27421	2.132	ppbv	99
25) Ethyl Acetate	2.836	43	61595	2.124	ppbv	100
26) Hexane	2.823	57	23715	1.992	ppbv	86
27) Carbon Disulfide	2.146	76	31735	2.065	ppbv #	94
28) Methyl tert-Butyl Ether	2.438	73	13425	2.030	ppbv	94
29) Chloroform	2.845	83	51800	2.098	ppbv	97
30) Cyclohexane	3.855	84	18925	1.936	ppbv	94
31) cis-1,2-Dichloroethene	2.719	61	26277	1.955	ppbv	88
32) 1,1,1-Trichloroethane	3.363	97	50640	2.033	ppbv	98
34) 2-Butanone	2.557	43	39851	2.011	ppbv	98
35) Carbon Tetrachloride	3.761	117	54873	2.030	ppbv	89
36) Benzene	3.651	78	52942	1.987	ppbv	99
37) 1,2-Dichloroethane	3.214	62	39974	2.103	ppbv	100
38) Trichloroethene	4.541	130	23078m	2.027	ppbv	
39) 1,2-Dichloropropane	4.312	63	19038	1.920	ppbv	92
40) 1,4-Dioxane	4.590	88	7446m	1.883	ppbv	
41) Tetrahydrofuran	3.059	42	17163m	2.008	ppbv	
42) Bromodichloromethane	4.490	83	52451	2.072	ppbv	92
43) Methyl Methacrylate	4.878	69	17050m	1.916	ppbv	
44) 2,2,4-Trimethylpentane	4.638	57	86512m	2.068	ppbv	
45) t-1,3-Dichloropropene	6.412	75	20334m	1.790	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042532.D
 Acq On : 12 May 2025 12:58
 Operator : SY/MD
 Sample : VSTDIC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

Quant Time: May 12 23:50:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

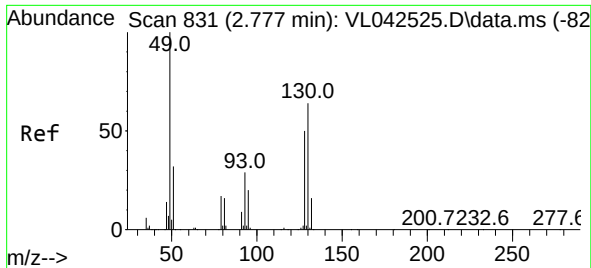
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Mon May 12 23:42:45 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	25085m	1.831	ppbv	
47) 1,1,2-Trichloroethane	6.584	97	23580m	2.019	ppbv	
48) Dibromochloromethane	7.383	129	40163	2.058	ppbv	99
49) Bromoform	9.480	173	32916	2.056	ppbv	98
50) 4-Methyl-2-Pentanone	5.752	43	46331	1.994	ppbv	96
51) 2-Hexanone	7.438	43	33088	1.916	ppbv #	96
52) Tetrachloroethene	8.221	164	19118	1.863	ppbv	94
53) Toluene	6.930	91	49216	1.882	ppbv	96
54) 1,2-Dibromoethane	7.648	107	33420	1.958	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.924	131	33013	2.119	ppbv	94
57) Chlorobenzene	8.917	112	54172	2.147	ppbv	92
58) Ethyl Benzene	9.351	91	66256	1.934	ppbv	91
59) m/p-Xylene	9.545	91	133205m	4.372	ppbv	
60) o-Xylene	9.963	91	64958	2.188	ppbv	99
61) Styrene	9.869	104	19713m	1.802	ppbv	
62) Isopropylbenzene	10.539	105	96054	2.147	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	49909	2.096	ppbv	98
64) n-propylbenzene	10.989	120	25286	2.230	ppbv	93
65) tert-Butylbenzene	11.529	119	93604	2.278	ppbv	97
66) Benzyl Chloride	11.613	91	11357m	2.089	ppbv	
67) sec-Butylbenzene	11.765	105	136432	2.316	ppbv	100
69) p-Isopropyltoluene	11.924	119	112913	2.332	ppbv	98
70) n-Butylbenzene	12.280	91	112776	2.357	ppbv	96
71) 2-Chlorotoluene	10.898	91	68153	2.012	ppbv	97
72) 4-Ethyltoluene	11.125	105	79670	2.162	ppbv	96
73) 1,3,5-Trimethylbenzene	11.202	105	71983	2.242	ppbv	99
74) 1,2,4-Trimethylbenzene	11.536	105	96474	2.443	ppbv	94
75) 1,3-Dichlorobenzene	11.604	146	54948	2.221	ppbv	98
76) 1,4-Dichlorobenzene	11.672	146	53480	2.272	ppbv	97
77) 1,2-Dichlorobenzene	11.947	146	59194	2.317	ppbv	98
78) Hexachloro-1,3-Butadiene	13.879	225	49456	2.258	ppbv	97
79) Naphthalene	13.513	128	69902	2.564	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	29203	1.841	ppbv	95
81) 1,2,4-Trichlorobenzene	13.439	180	37757	2.268	ppbv	98

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



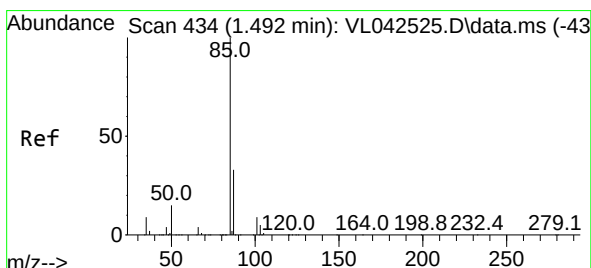
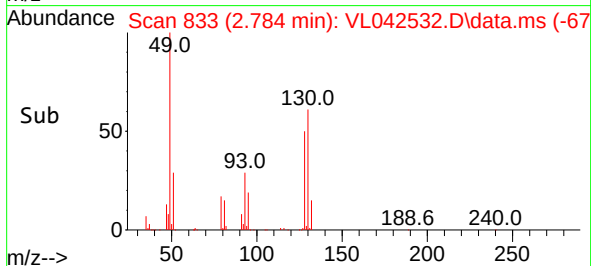
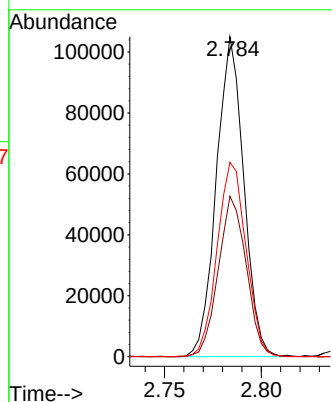
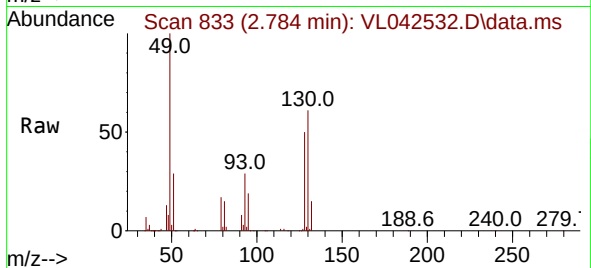
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. 0.007 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 49 Resp: 10334
Ion Ratio Lower Upper
49 100
128 51.0 24.9 74.6
130 64.2 32.5 97.5

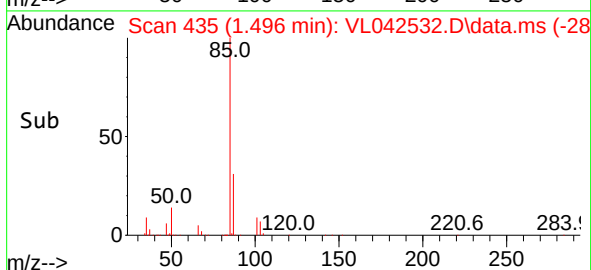
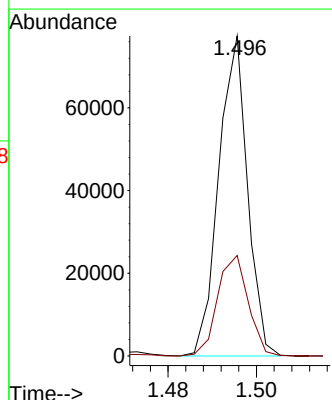
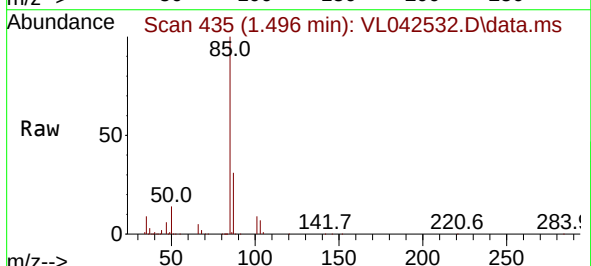
Manual Integrations
APPROVED

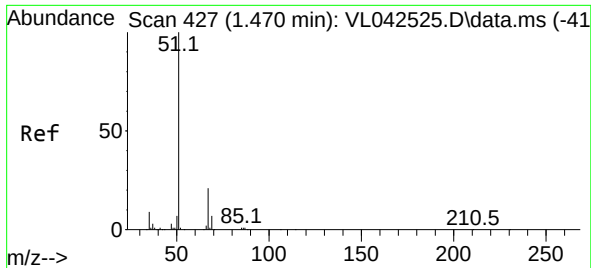
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#2
Dichlorodifluoromethane
Concen: 2.080 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.003 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion: 85 Resp: 34904
Ion Ratio Lower Upper
85 100
87 31.4 26.8 40.2





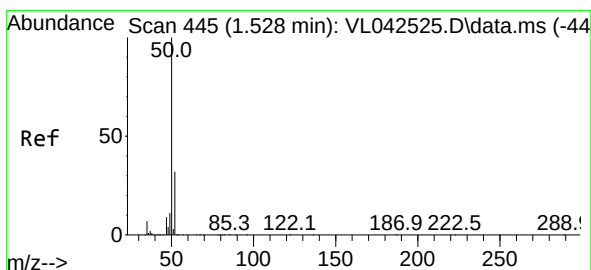
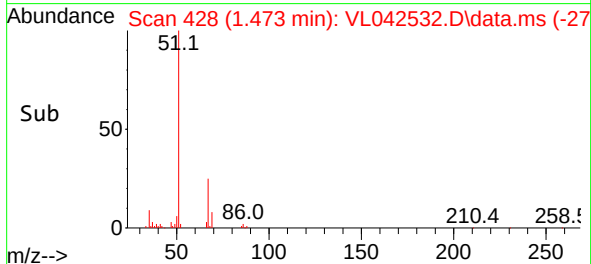
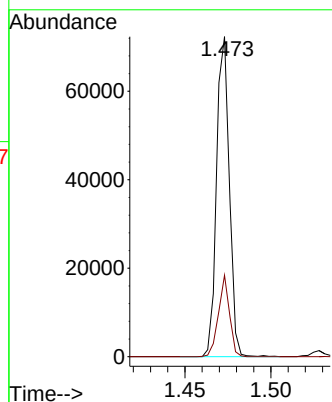
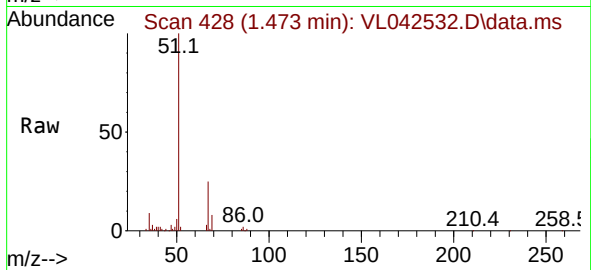
#3
Chlorodifluoromethane
Concen: 2.175 ppbv
RT: 1.473 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 51 Resp: 3720
Ion Ratio Lower Upper
51 100
67 22.0 17.4 26.0

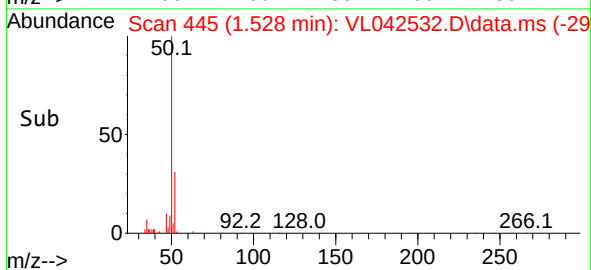
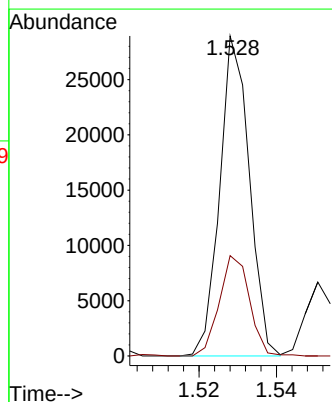
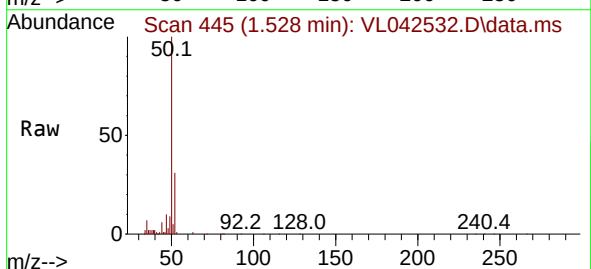
Manual Integrations
APPROVED

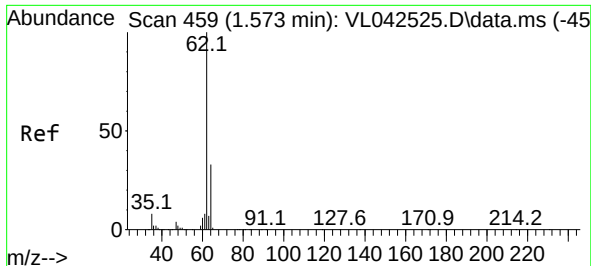
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#4
Chloromethane
Concen: 2.242 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.000 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion: 50 Resp: 15355
Ion Ratio Lower Upper
50 100
52 31.3 25.9 38.9





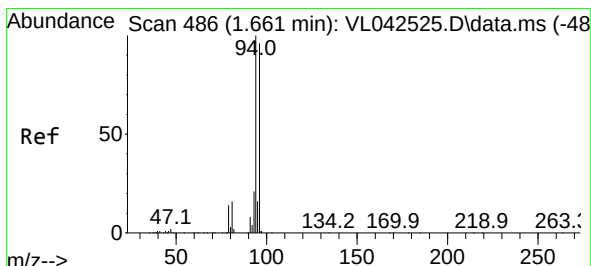
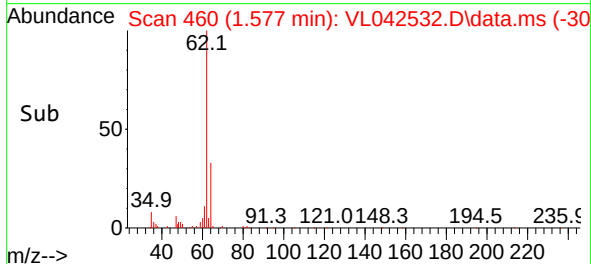
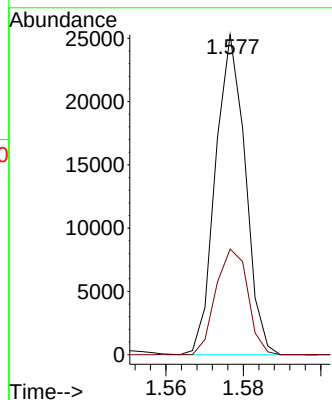
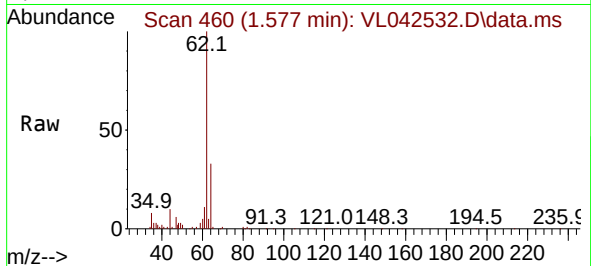
#5
 Vinyl Chloride
 Concen: 1.930 ppbv
 RT: 1.577 min Scan# 459
 Delta R.T. 0.003 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion: 62 Resp: 1352
 Ion Ratio Lower Upper
 62 100
 64 33.0 26.5 39.7

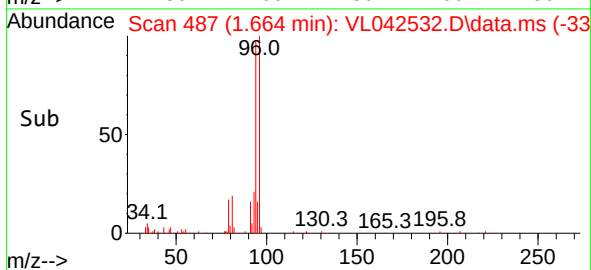
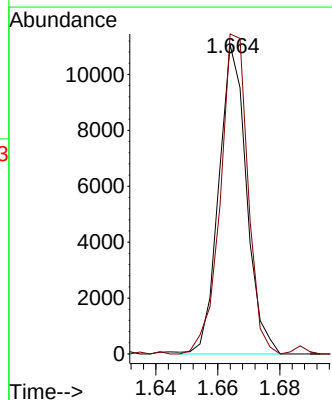
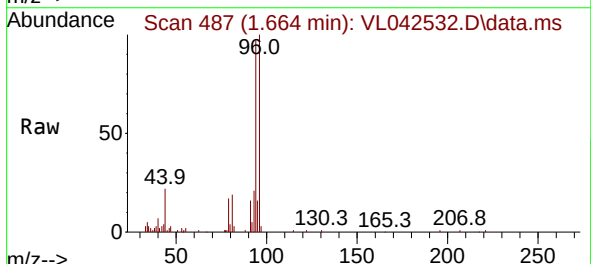
Manual Integrations
 APPROVED

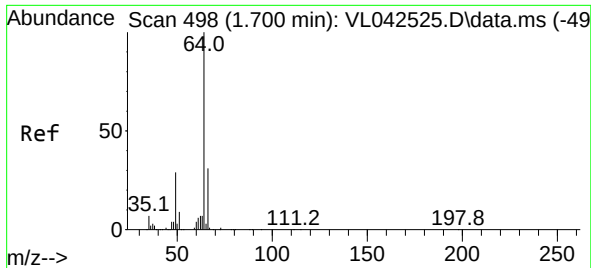
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#6
 Bromomethane
 Concen: 2.068 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. 0.003 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

Tgt Ion: 94 Resp: 6881
 Ion Ratio Lower Upper
 94 100
 96 103.4 76.9 115.3





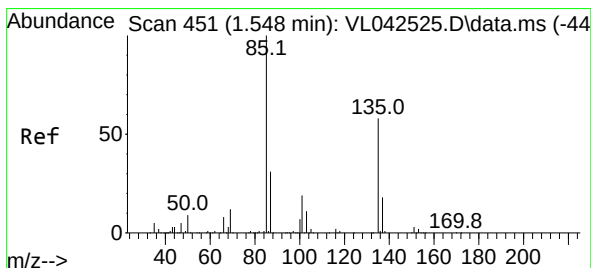
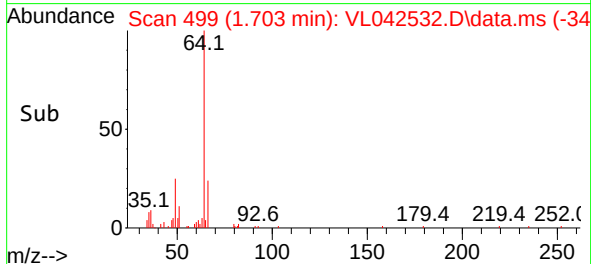
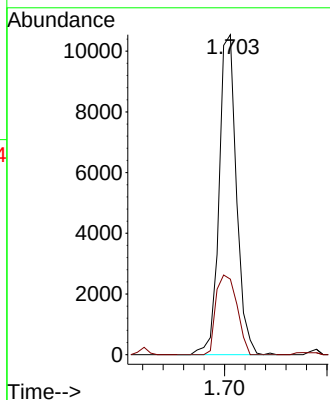
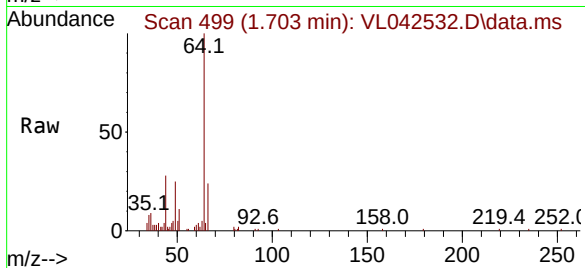
#7
Chloroethane
Concen: 2.251 ppbv m
RT: 1.703 min Scan# 498
Delta R.T. 0.003 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 64 Resp: 6208
Ion Ratio Lower Upper
64 100
66 23.6 25.1 37.7

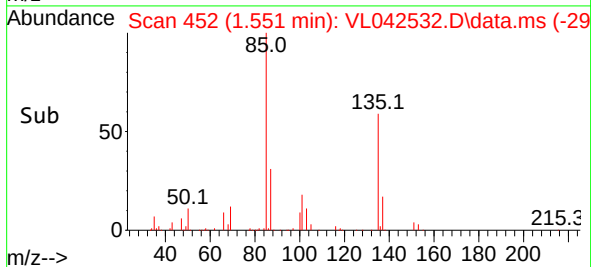
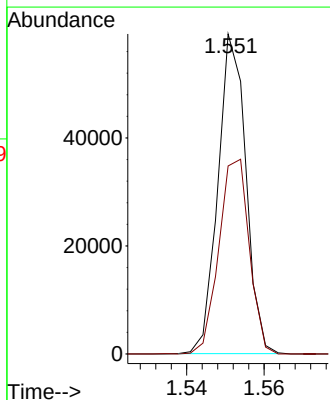
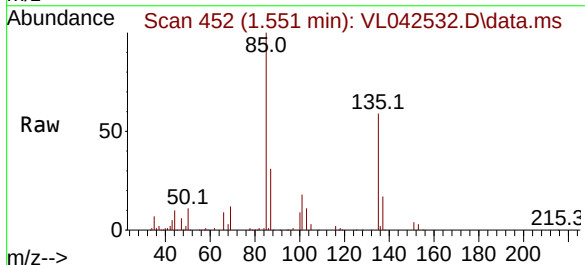
Manual Integrations
APPROVED

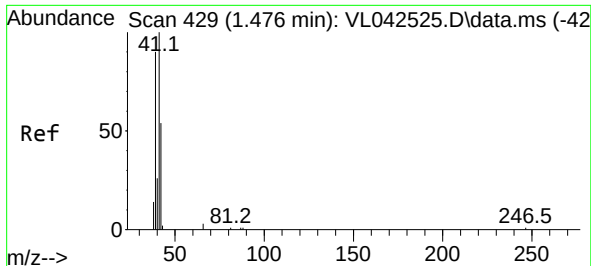
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#8
Dichlorotetrafluoroethane
Concen: 2.054 ppbv
RT: 1.551 min Scan# 452
Delta R.T. 0.003 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion: 85 Resp: 29662
Ion Ratio Lower Upper
85 100
135 66.6 51.8 77.8





#9

Propene

Concen: 0.923 ppbv

RT: 1.479 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

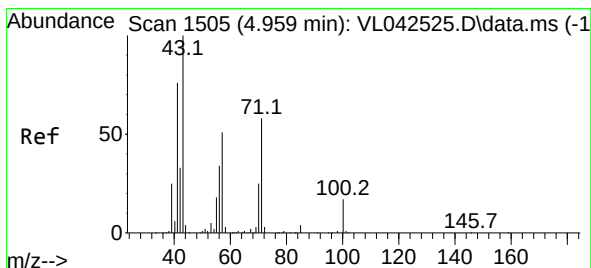
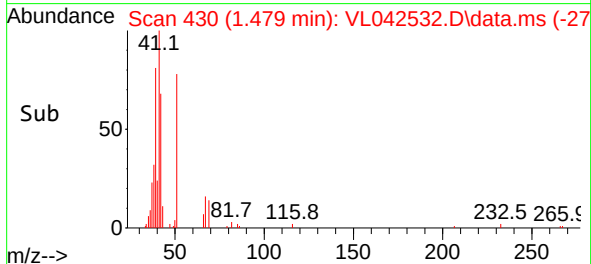
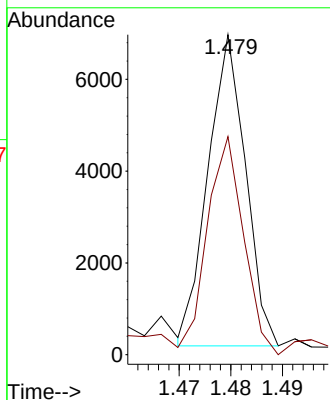
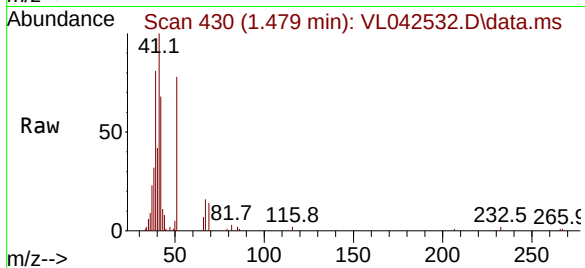
VSTDICC002

Tgt Ion: 41 Resp: 3429
 Ion Ratio Lower Upper
 41 100
 42 86.6 4.1 6.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#10

Heptane

Concen: 1.991 ppbv

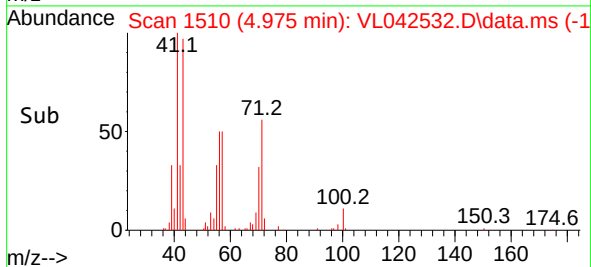
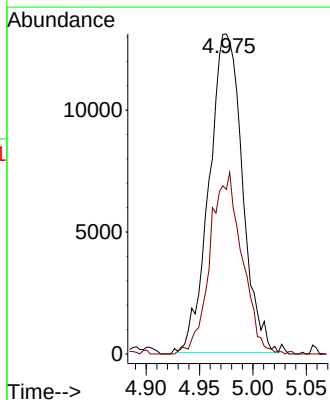
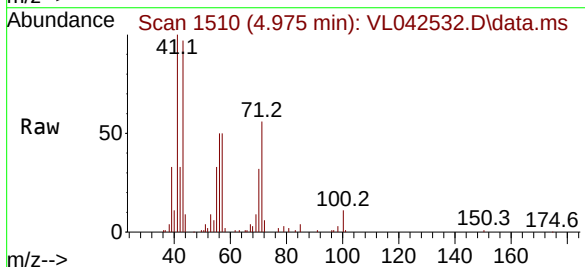
RT: 4.975 min Scan# 1510

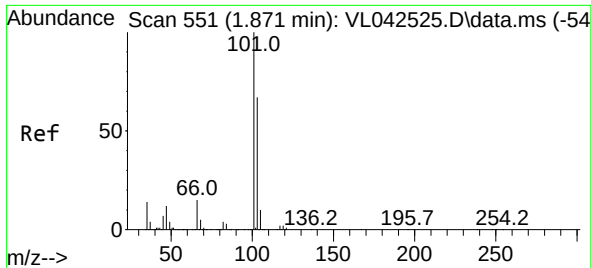
Delta R.T. 0.016 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

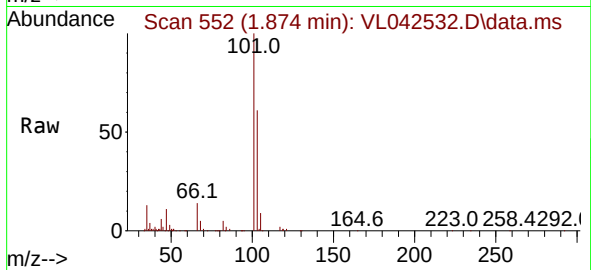
Tgt Ion: 43 Resp: 28195
 Ion Ratio Lower Upper
 43 100
 57 55.0 42.1 63.1





#11
Trichlorofluoromethane
Concen: 2.161 ppbv
RT: 1.874 min Scan# 551
Delta R.T. 0.003 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

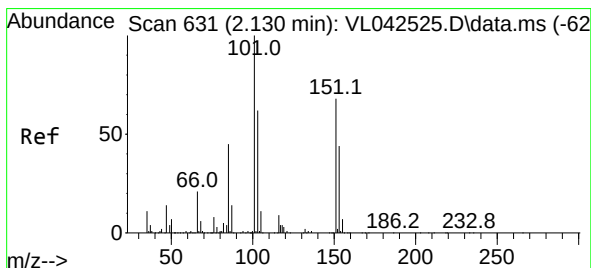
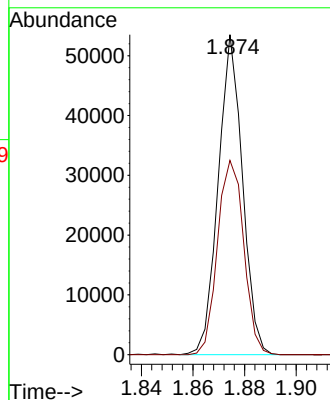
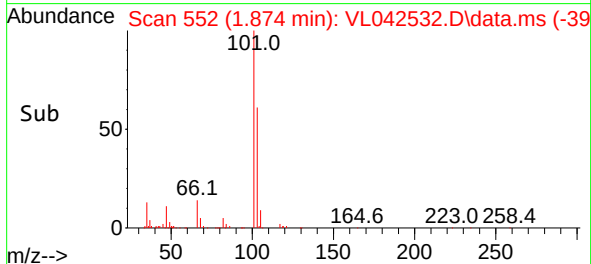
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



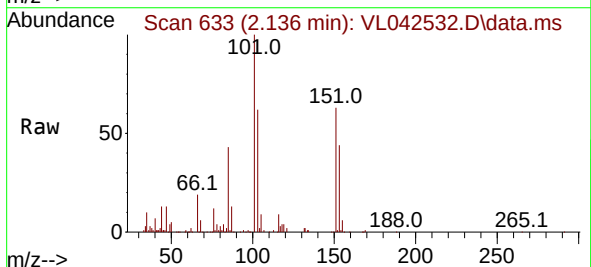
Tgt Ion:101 Resp: 34879
Ion Ratio Lower Upper
101 100
103 60.7 53.8 80.6

Manual Integrations
APPROVED

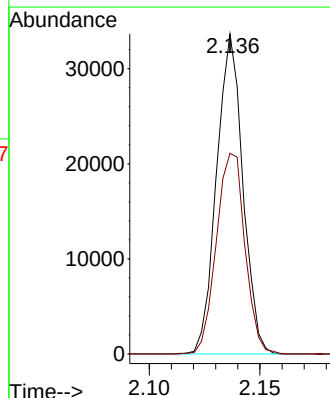
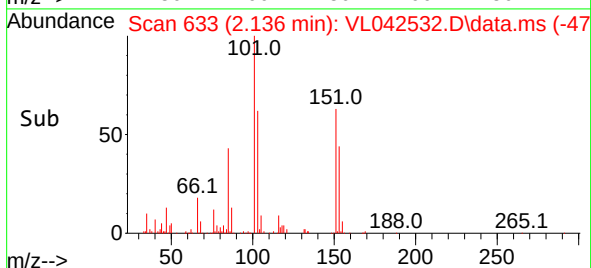
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

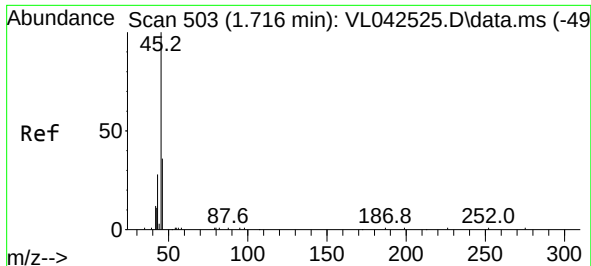


#12
1,1,2-Trichlorotrifluoroethane
Concen: 2.141 ppbv
RT: 2.136 min Scan# 633
Delta R.T. 0.006 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58



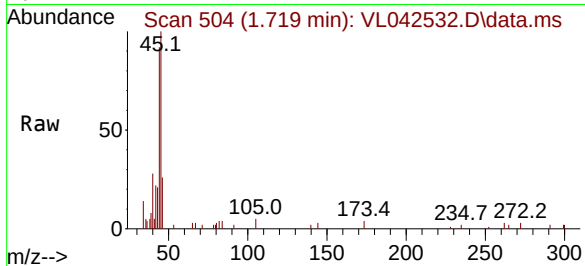
Tgt Ion:101 Resp: 27757
Ion Ratio Lower Upper
101 100
151 68.4 57.8 86.8





#13
Ethanol
Concen: 1.956 ppbv
RT: 1.719 min Scan# 503
Delta R.T. 0.003 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

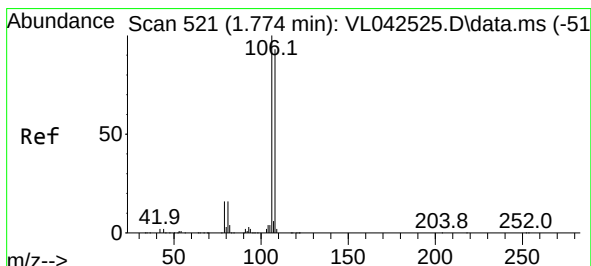
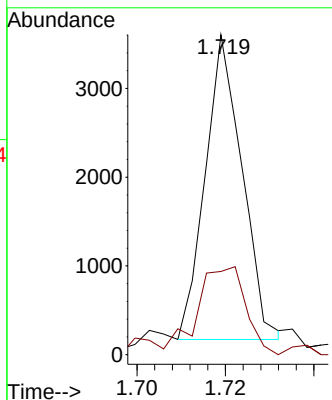
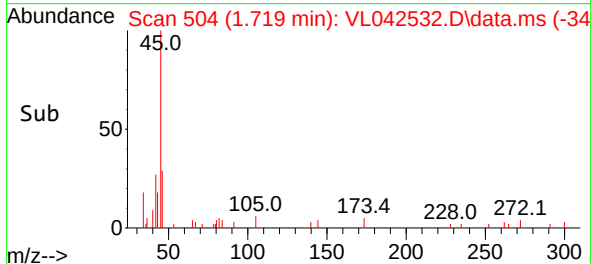
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



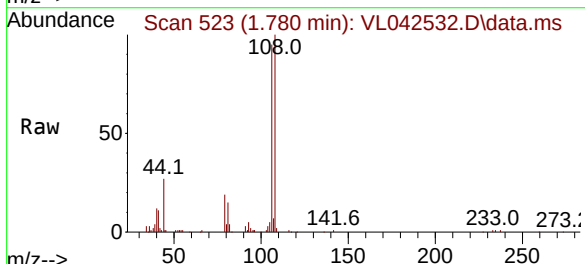
Tgt Ion: 45 Resp: 1983
Ion Ratio Lower Upper
45 100
46 43.7 14.8 59.4

Manual Integrations
APPROVED

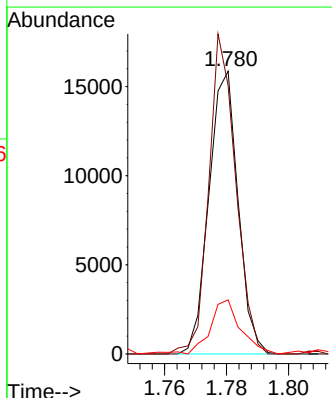
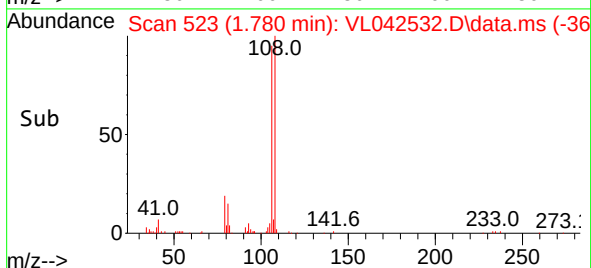
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

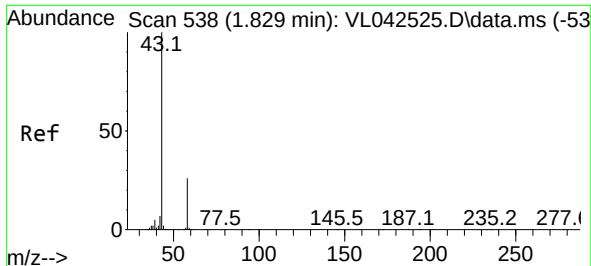


#14
Bromoethene
Concen: 2.192 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.006 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58



Tgt Ion:108 Resp: 10359
Ion Ratio Lower Upper
108 100
106 104.9 87.4 131.2
79 22.4 15.1 22.7





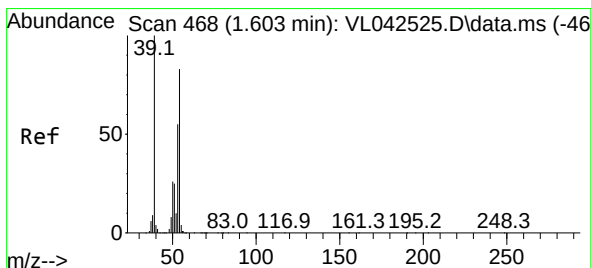
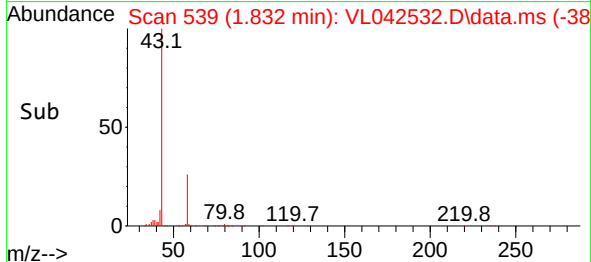
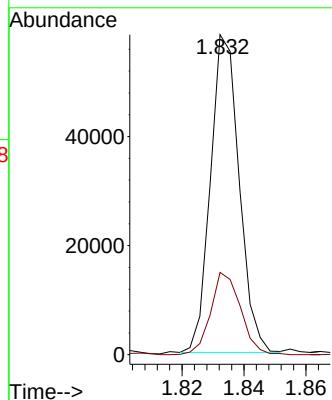
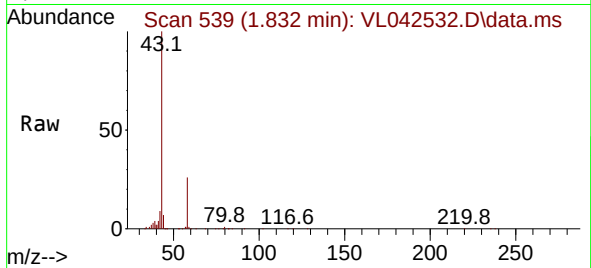
#15
Acetone
Concen: 2.269 ppbv
RT: 1.832 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 43 Resp: 3746
Ion Ratio Lower Upper
43 100
58 27.4 21.3 31.9

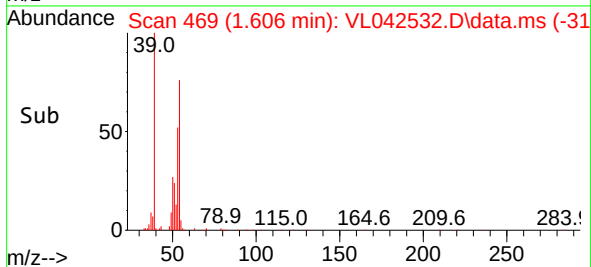
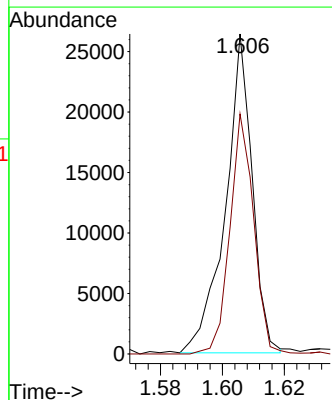
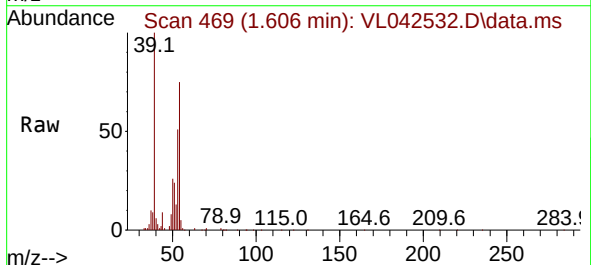
Manual Integrations
APPROVED

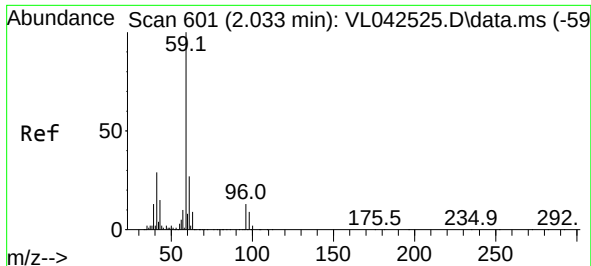
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#16
1,3-Butadiene
Concen: 2.132 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.003 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion: 39 Resp: 15833
Ion Ratio Lower Upper
39 100
54 67.6 57.8 86.6





#17

tert-Butyl alcohol

Concen: 2.026 ppbv

RT: 2.039 min Scan# 601

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 59 Resp: 3091

Ion Ratio Lower Upper

59 100

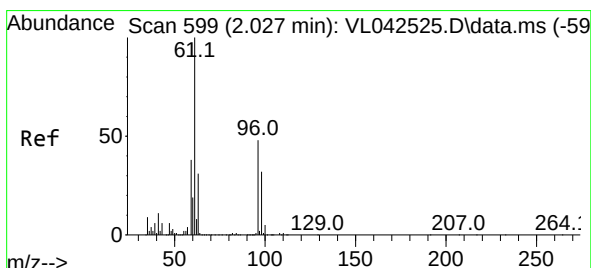
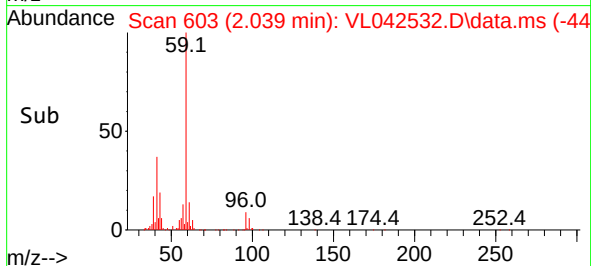
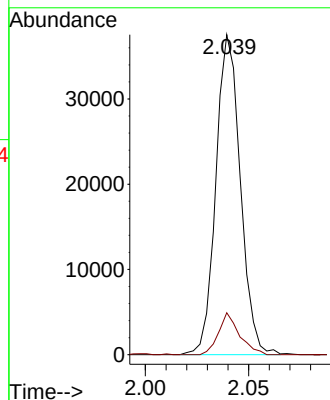
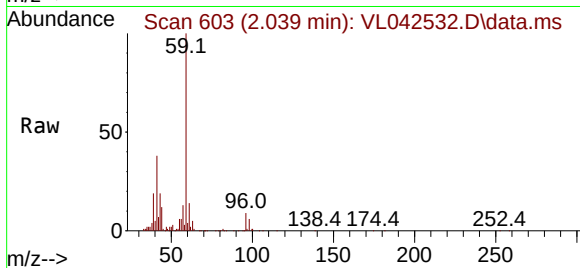
57 11.2 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#18

1,1-Dichloroethene

Concen: 2.073 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

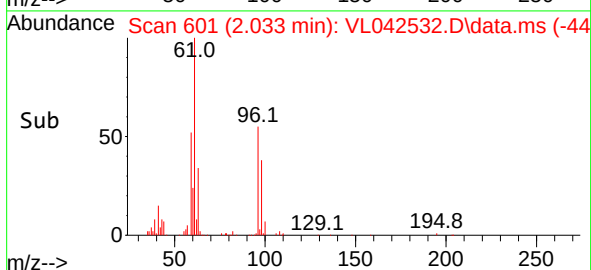
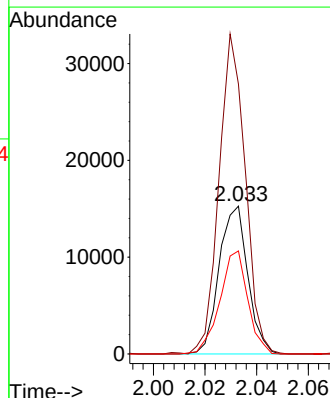
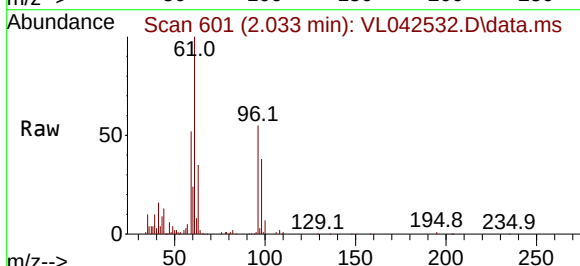
Tgt Ion: 96 Resp: 11781

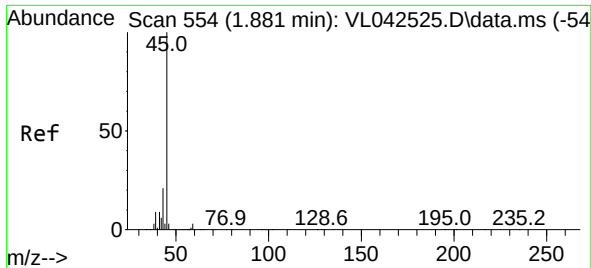
Ion Ratio Lower Upper

96 100

61 182.0 165.0 247.4

98 69.7 52.6 79.0





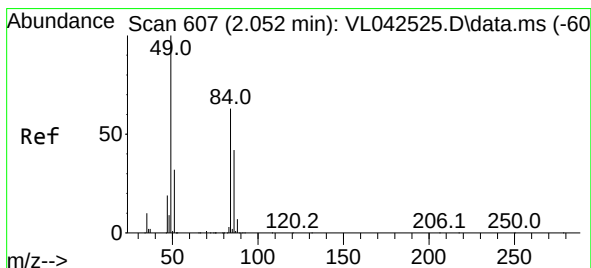
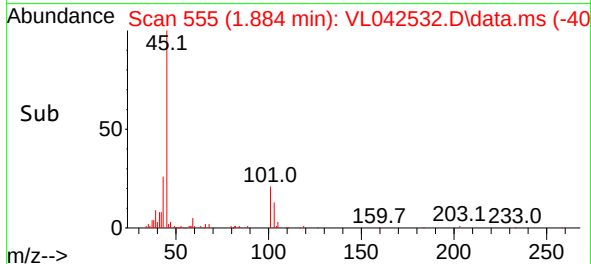
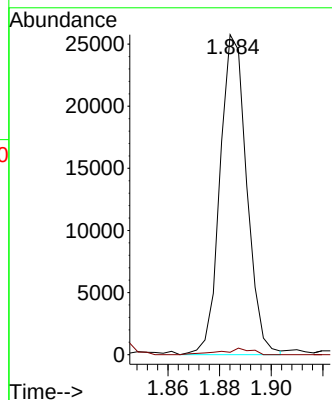
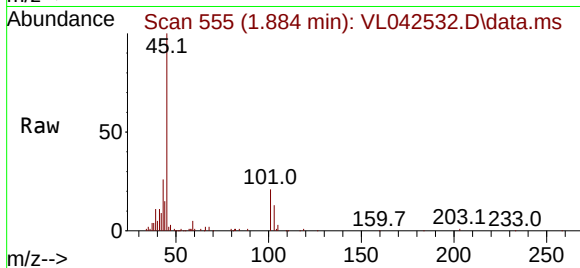
#19
Isopropyl Alcohol
Concen: 2.062 ppbv
RT: 1.884 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 45 Resp: 1850
Ion Ratio Lower Upper
45 100
58 0.0 1.5 2.3

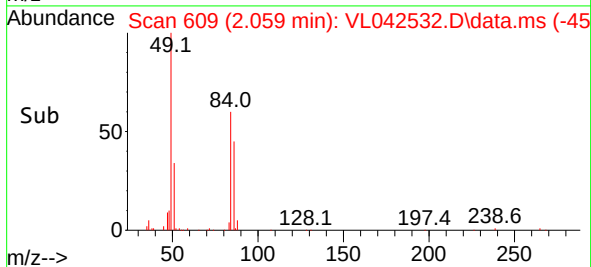
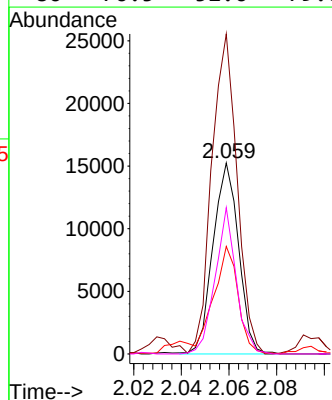
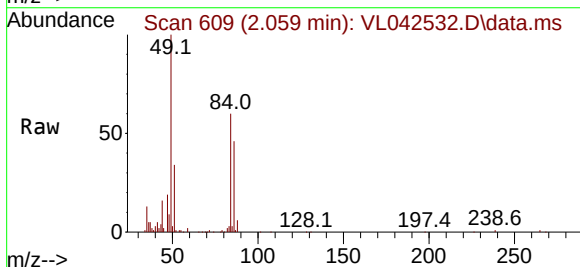
Manual Integrations
APPROVED

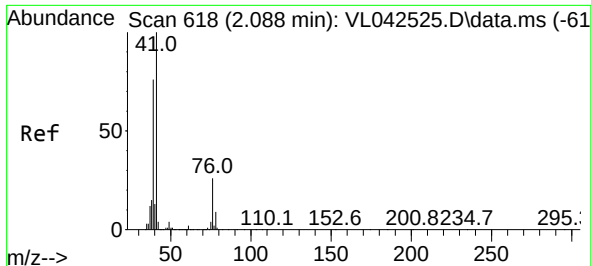
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#20
Methylene Chloride
Concen: 1.975 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.006 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

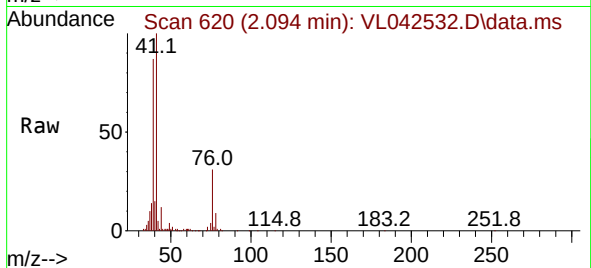
Tgt Ion: 84 Resp: 11357
Ion Ratio Lower Upper
84 100
49 167.0 128.2 192.4
51 56.3 41.7 62.5
86 76.5 52.6 79.0





#21
 Allyl Chloride
 Concen: 2.064 ppbv
 RT: 2.094 min Scan# 618
 Delta R.T. 0.006 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

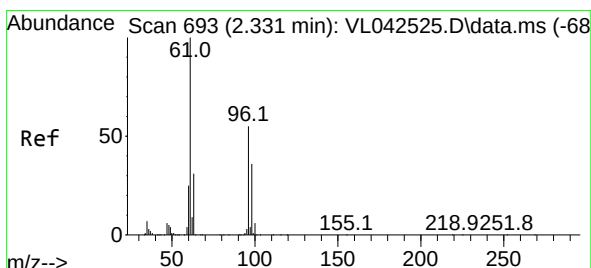
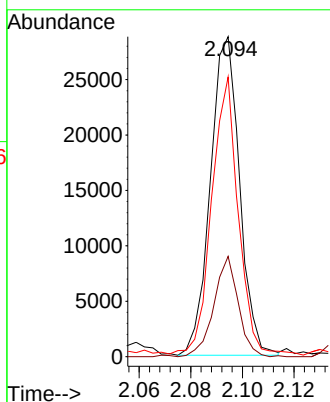
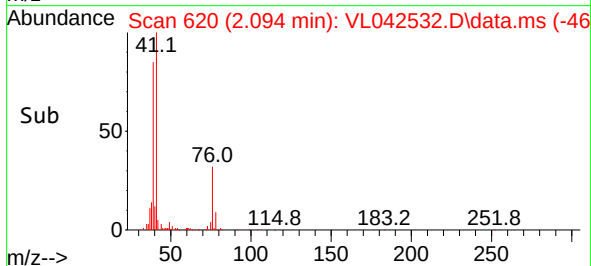
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



Tgt Ion: 41 Resp: 2256
 Ion Ratio Lower Upper
 41 100
 76 26.5 22.0 33.0
 39 78.9 59.5 89.3

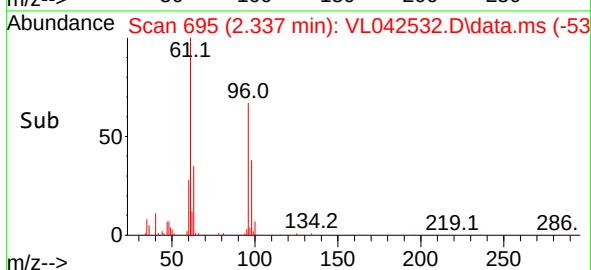
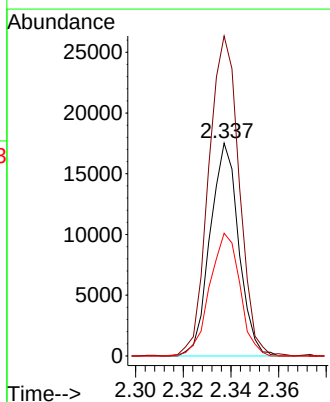
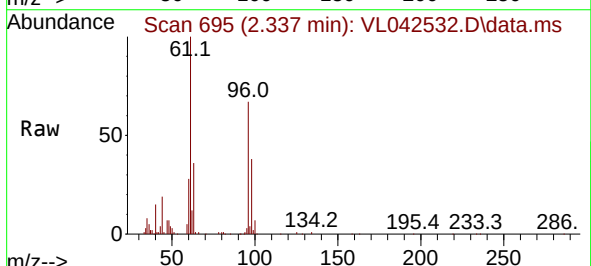
Manual Integrations
 APPROVED

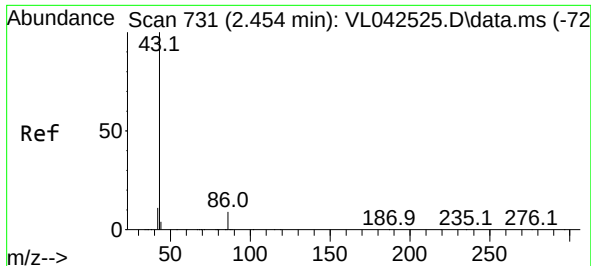
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#22
 trans-1,2-Dichloroethene
 Concen: 2.193 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. 0.006 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

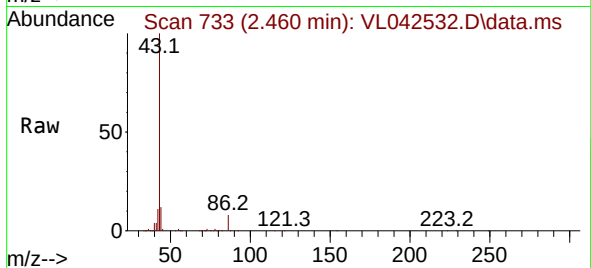
Tgt Ion: 96 Resp: 14573
 Ion Ratio Lower Upper
 96 100
 61 149.6 145.9 218.9
 98 57.7 52.2 78.4





#23
 Vinyl Acetate
 Concen: 1.985 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. 0.006 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

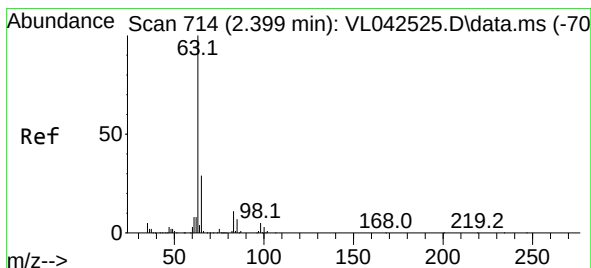
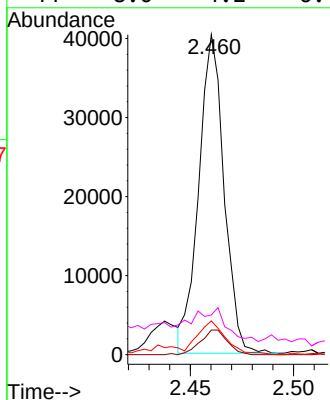
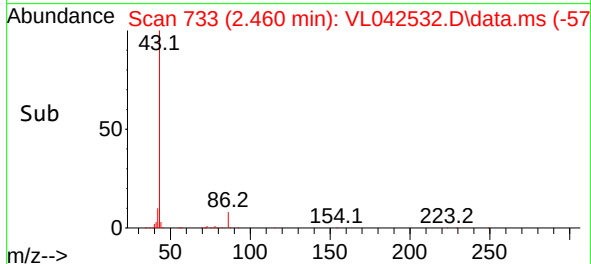
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



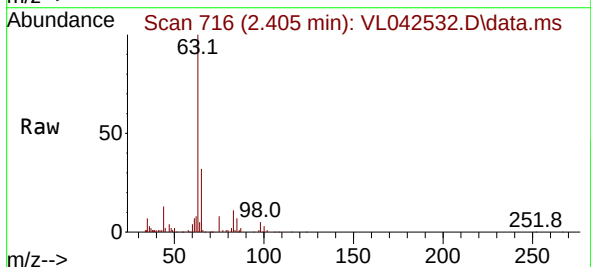
Tgt Ion: 43 Resp: 34320
 Ion Ratio Lower Upper
 43 100
 86 7.7 6.8 10.2
 42 10.6 8.8 13.2
 44 8.0 4.2 6.4#

Manual Integrations
 APPROVED

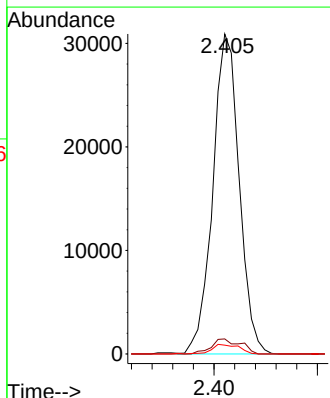
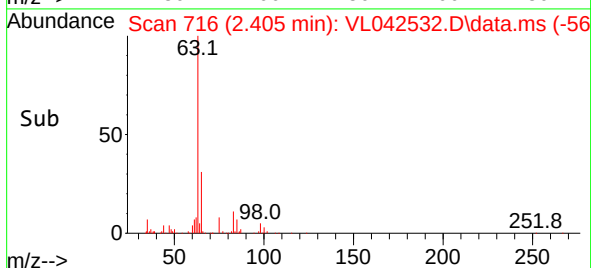
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

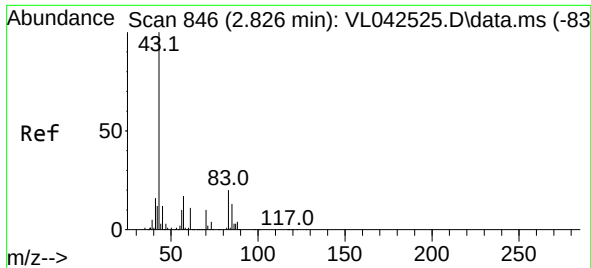


#24
 1,1-Dichloroethane
 Concen: 2.132 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. 0.006 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58



Tgt Ion: 63 Resp: 27421
 Ion Ratio Lower Upper
 63 100
 98 4.7 2.6 8.0
 100 2.8 1.4 4.2





#25
Ethyl Acetate
Concen: 2.124 ppbv
RT: 2.836 min Scan# 846
Delta R.T. 0.010 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

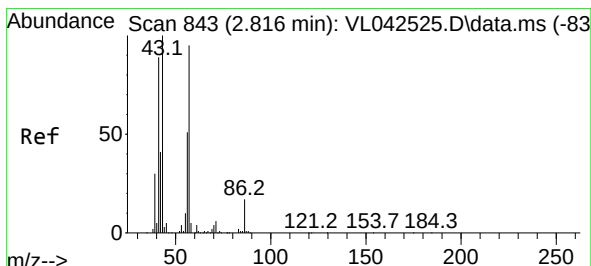
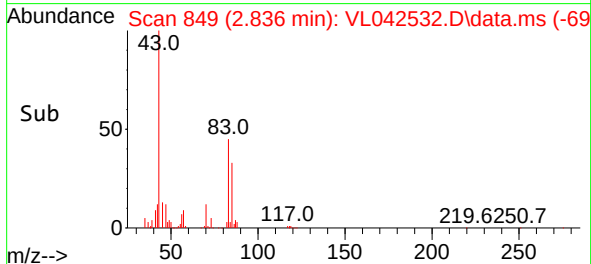
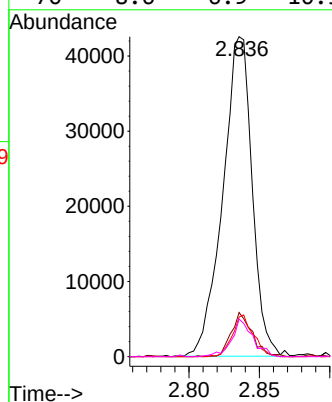
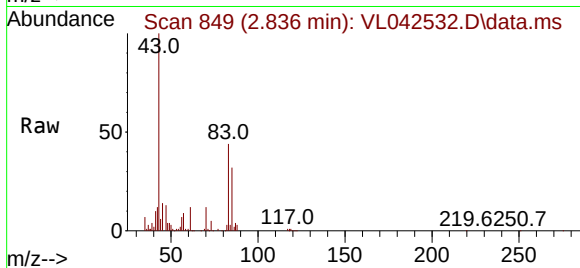
VSTDICC002

Tgt Ion: 43 Resp: 6159
Ion Ratio Lower Upper
43 100
45 10.0 7.9 11.9
61 9.3 7.1 10.7
70 8.6 6.9 10.3

Manual Integrations

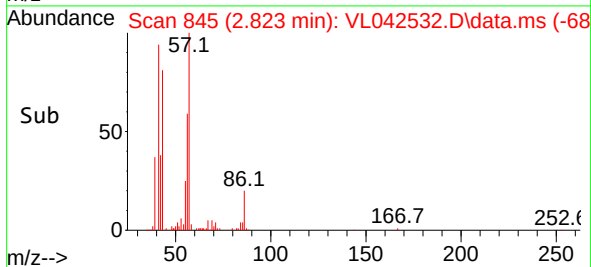
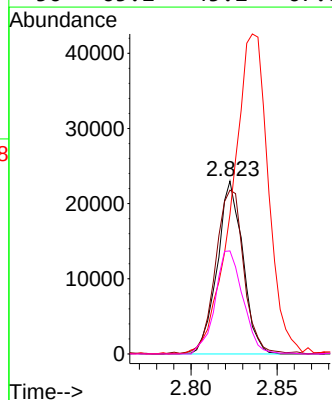
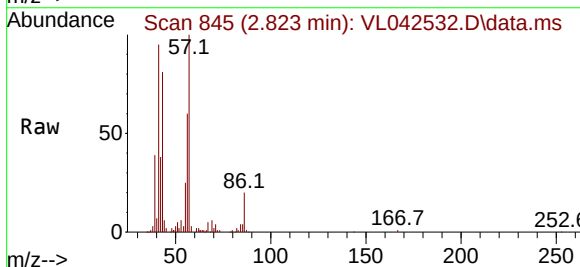
APPROVED

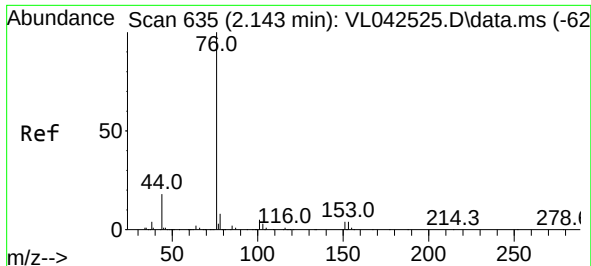
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#26
Hexane
Concen: 1.992 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.006 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion: 57 Resp: 23715
Ion Ratio Lower Upper
57 100
41 106.9 76.1 114.1
43 262.3 188.9 283.3
56 65.2 45.2 67.8





#27

Carbon Disulfide

Concen: 2.065 ppbv

RT: 2.146 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

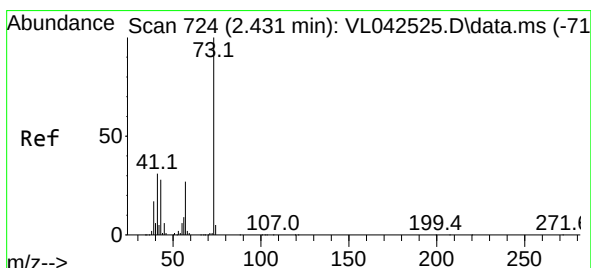
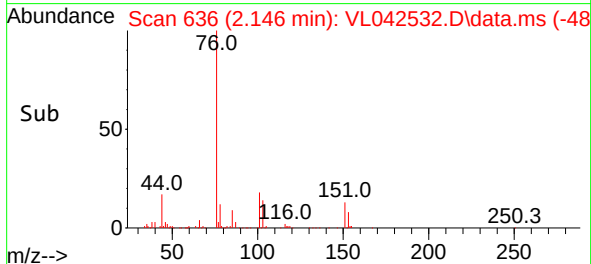
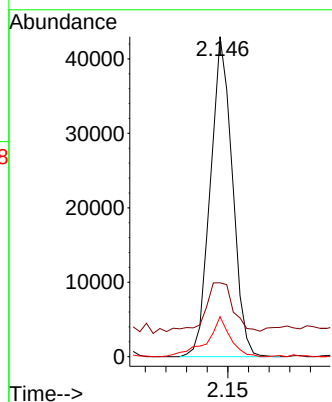
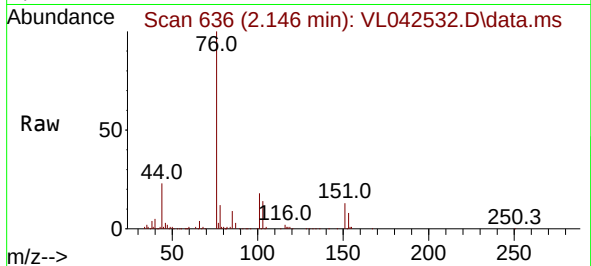
VSTDICC002

Tgt Ion: 76	Resp: 3173
Ion Ratio	Lower Upper
76 100	
44 23.9	17.1 25.7
78 13.7	8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#28

Methyl tert-Butyl Ether

Concen: 2.030 ppbv

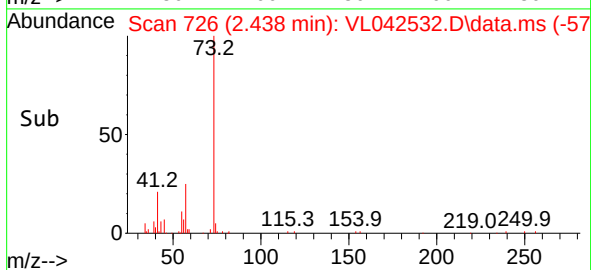
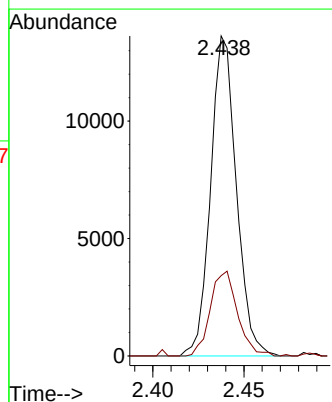
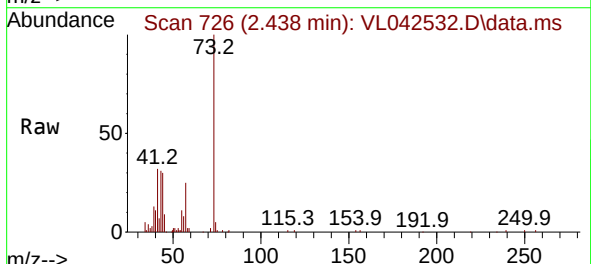
RT: 2.438 min Scan# 726

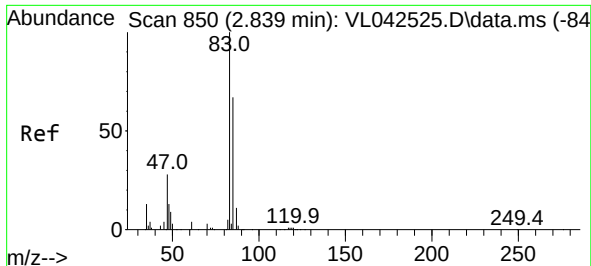
Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Tgt Ion: 73	Resp: 13425
Ion Ratio	Lower Upper
73 100	
57 28.4	20.3 30.5





#29

Chloroform

Concen: 2.098 ppbv

RT: 2.845 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 83 Resp: 51800

Ion Ratio Lower Upper

83 100

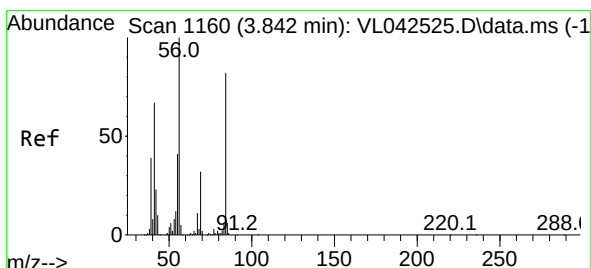
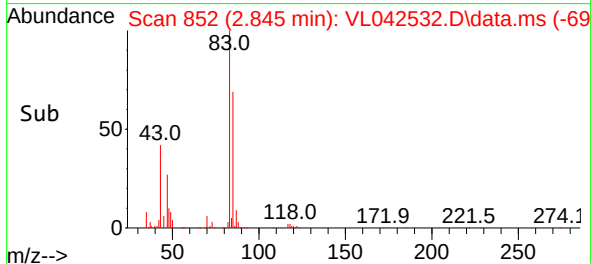
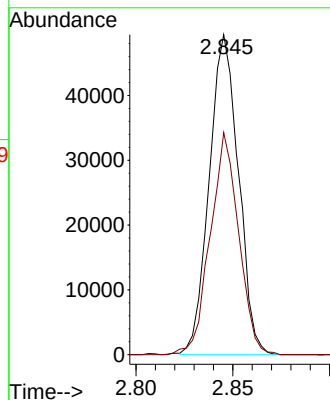
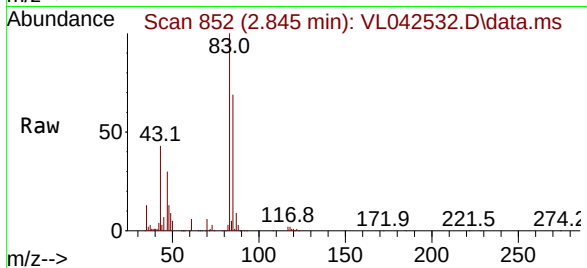
85 69.4 53.5 80.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#30

Cyclohexane

Concen: 1.936 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. 0.013 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

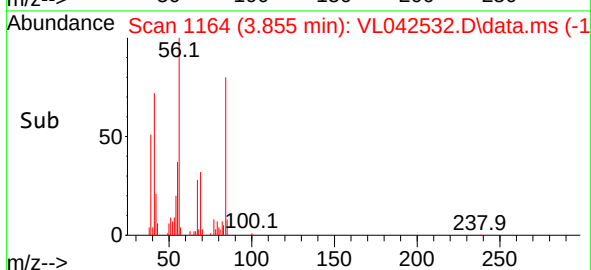
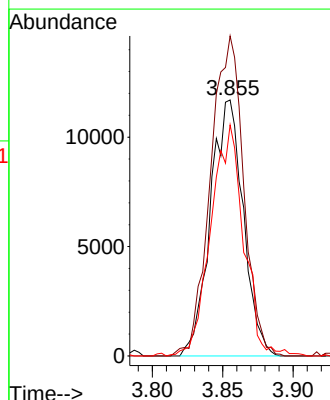
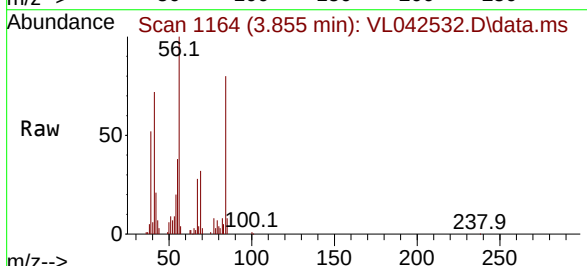
Tgt Ion: 84 Resp: 18925

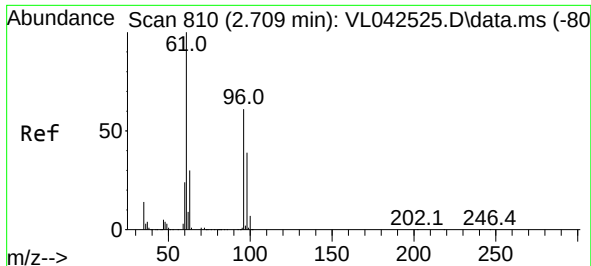
Ion Ratio Lower Upper

84 100

56 126.4 97.1 145.7

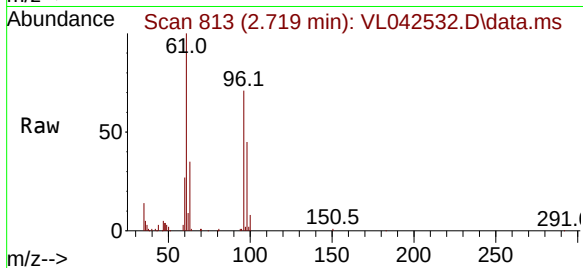
41 90.7 66.6 99.8





#31
 cis-1,2-Dichloroethene
 Concen: 1.955 ppbv
 RT: 2.719 min Scan# 810
 Delta R.T. 0.010 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

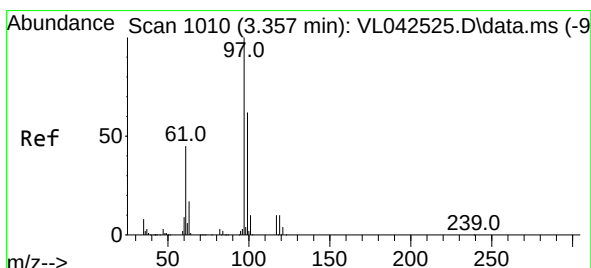
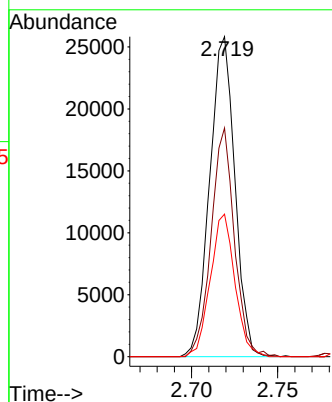
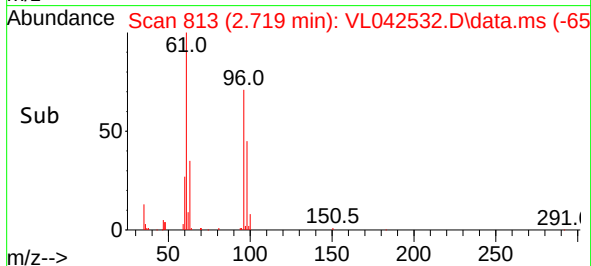
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



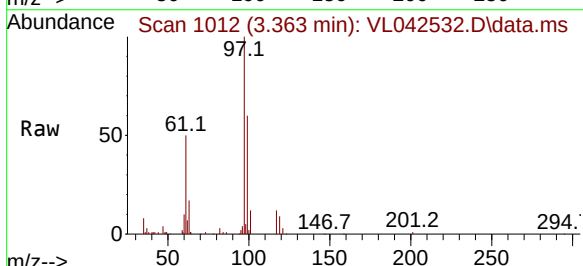
Tgt Ion: 61 Resp: 2627
 Ion Ratio Lower Upper
 61 100
 96 71.4 48.9 73.3
 98 44.5 31.4 47.2

Manual Integrations
 APPROVED

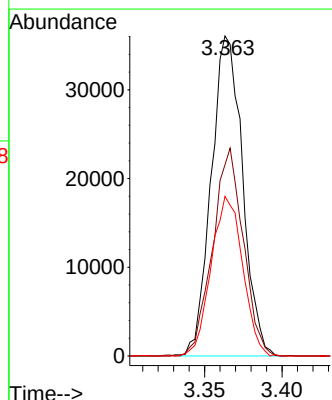
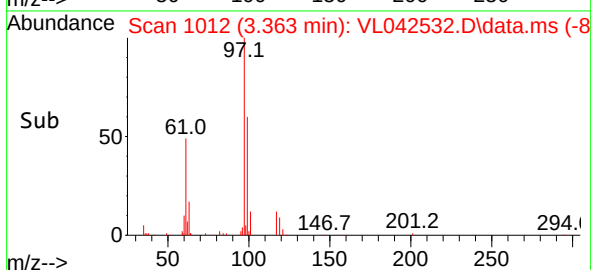
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

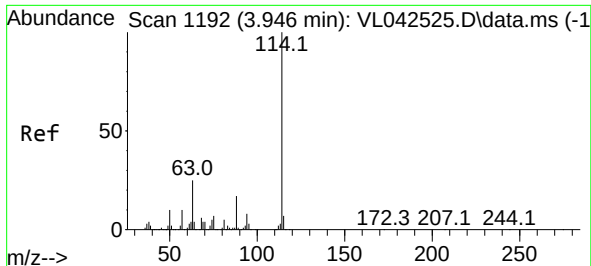


#32
 1,1,1-Trichloroethane
 Concen: 2.033 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. 0.006 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58



Tgt Ion: 97 Resp: 50640
 Ion Ratio Lower Upper
 97 100
 99 63.6 50.1 75.1
 61 50.3 38.2 57.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. 0.010 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

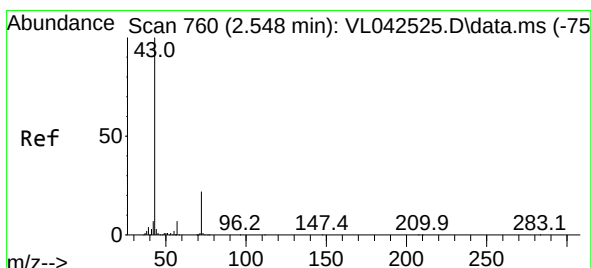
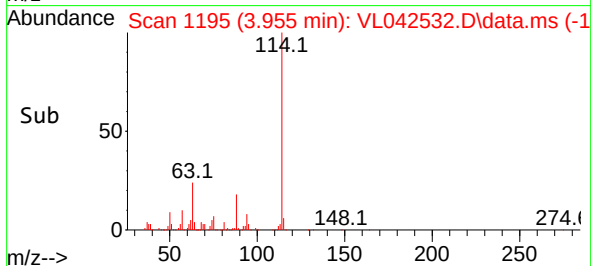
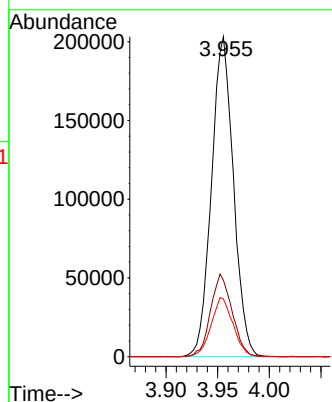
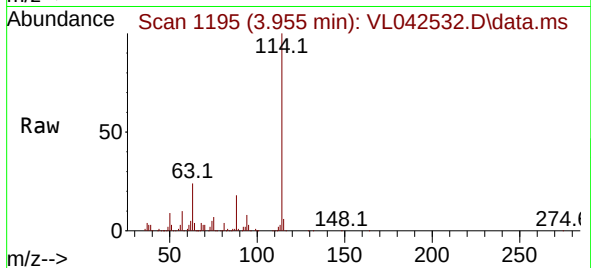
VSTDIC002

Tgt Ion:114	Resp: 300628
Ion Ratio	Lower Upper
114 100	
63 25.4	20.4 30.6
88 18.4	14.5 21.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#34

2-Butanone

Concen: 2.011 ppbv

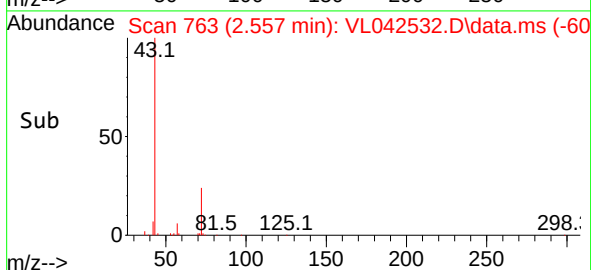
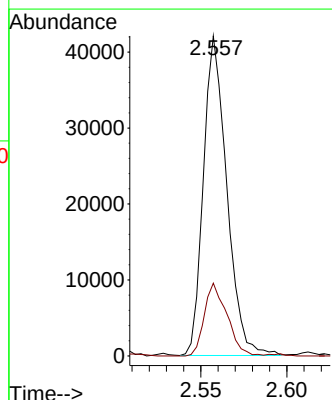
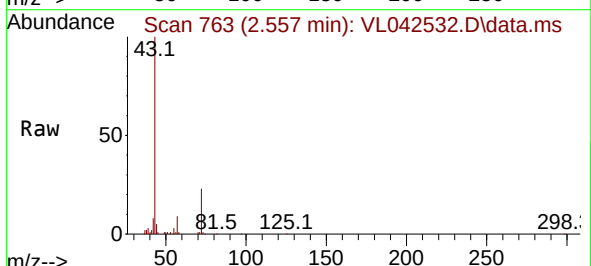
RT: 2.557 min Scan# 763

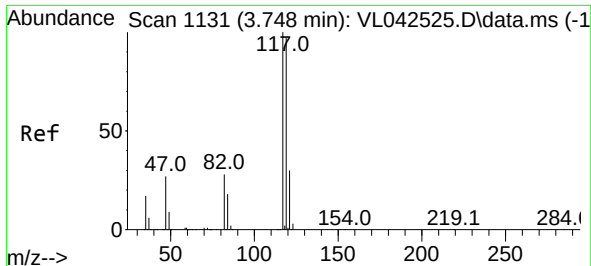
Delta R.T. 0.010 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

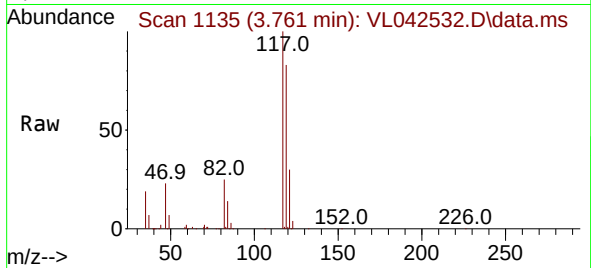
Tgt Ion: 43	Resp: 39851
Ion Ratio	Lower Upper
43 100	
72 22.5	18.7 28.1





#35
Carbon Tetrachloride
Concen: 2.030 ppbv
RT: 3.761 min Scan# 1131
Delta R.T. 0.013 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

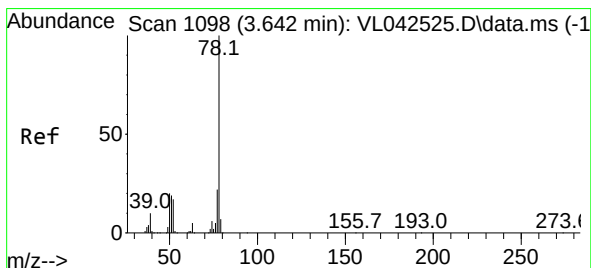
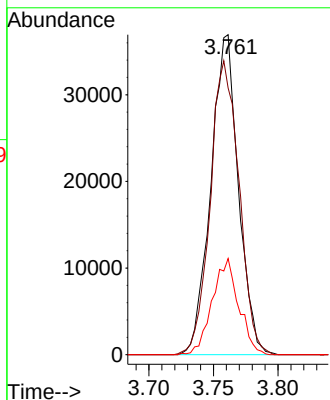
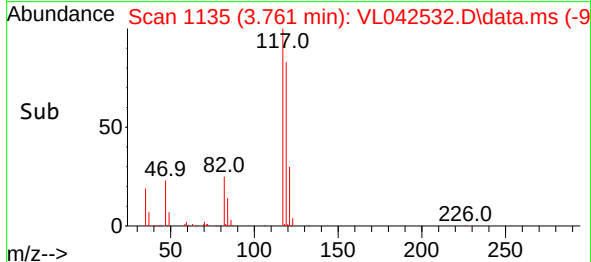
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



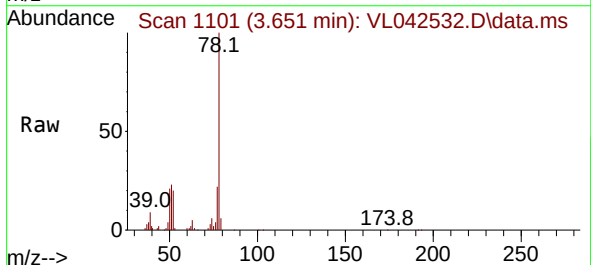
Tgt Ion:117 Resp: 5487
Ion Ratio Lower Upper
117 100
119 83.4 77.7 116.5
121 30.1 24.0 36.0

Manual Integrations
APPROVED

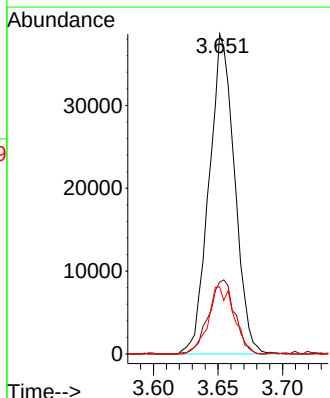
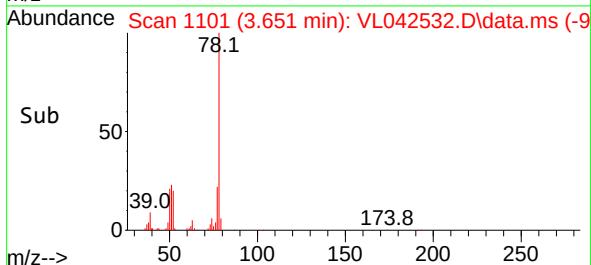
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

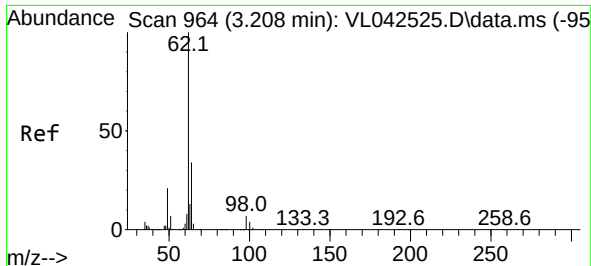


#36
Benzene
Concen: 1.987 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.010 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58



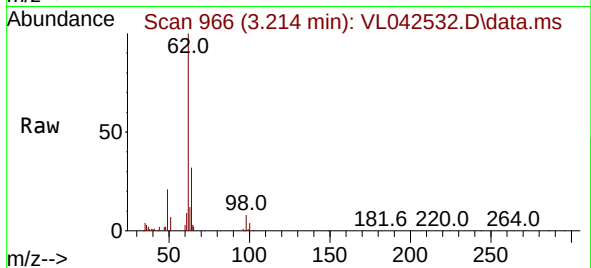
Tgt Ion: 78 Resp: 52942
Ion Ratio Lower Upper
78 100
77 22.5 17.4 26.2
50 21.0 16.3 24.5





#37
1,2-Dichloroethane
Concen: 2.103 ppbv
RT: 3.214 min Scan# 90
Delta R.T. 0.006 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

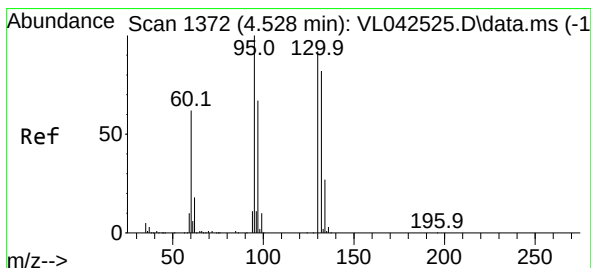
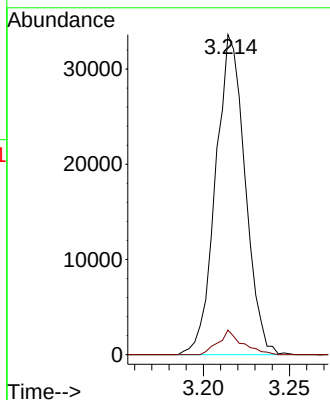
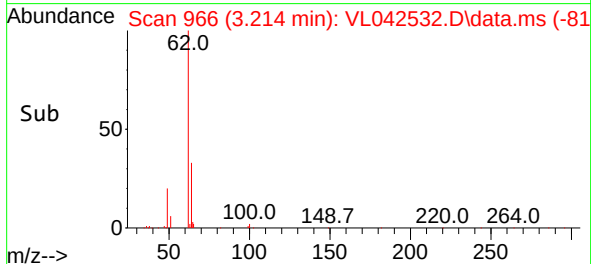
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion: 62 Resp: 39974
Ion Ratio Lower Upper
62 100
98 6.2 5.0 7.4

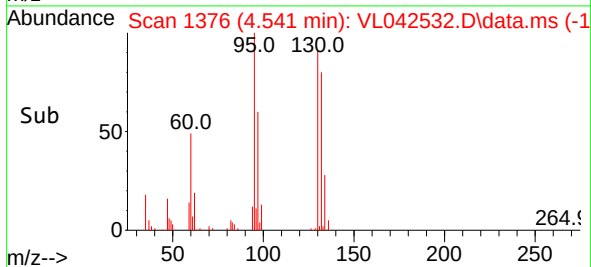
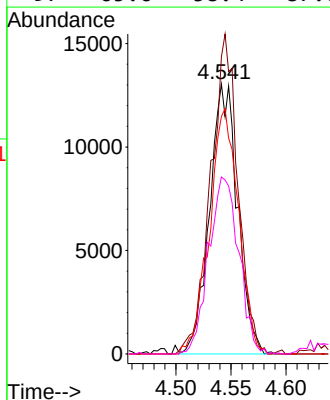
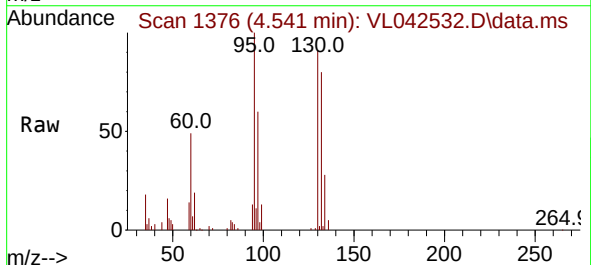
Manual Integrations
APPROVED

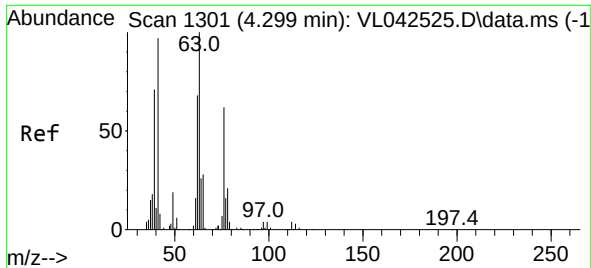
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#38
Trichloroethene
Concen: 2.027 ppbv m
RT: 4.541 min Scan# 1376
Delta R.T. 0.013 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion:130 Resp: 23078
Ion Ratio Lower Upper
130 100
95 110.0 87.0 130.4
132 88.0 71.1 106.7
97 65.6 58.4 87.6





#39

1,2-Dichloropropane

Concen: 1.920 ppbv

RT: 4.312 min Scan# 1305

Delta R.T. 0.013 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

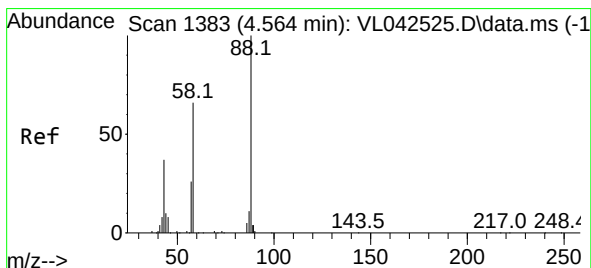
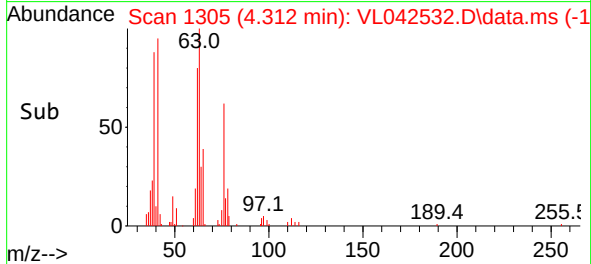
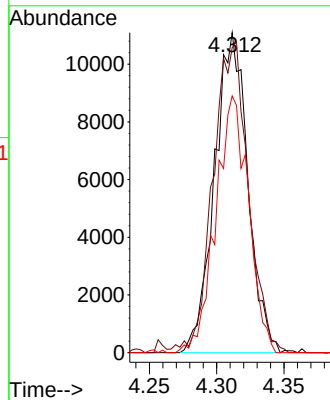
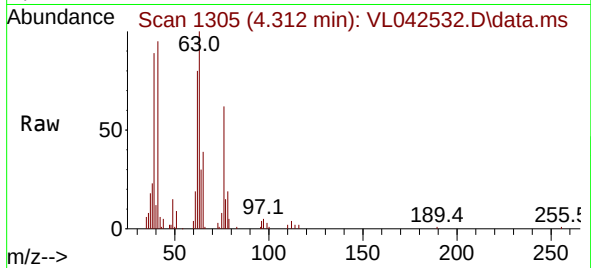
VSTDICC002

Tgt Ion:	63	Resp:	1903
Ion	Ratio	Lower	Upper
63	100		
41	93.7	77.5	116.3
62	80.2	54.6	82.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#40

1,4-Dioxane

Concen: 1.883 ppbv m

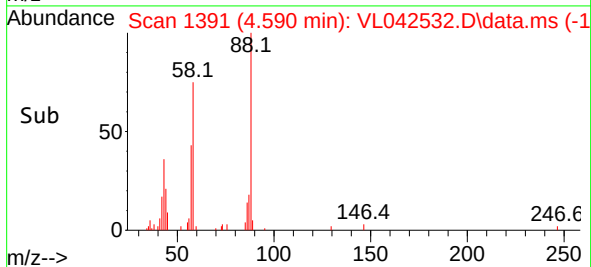
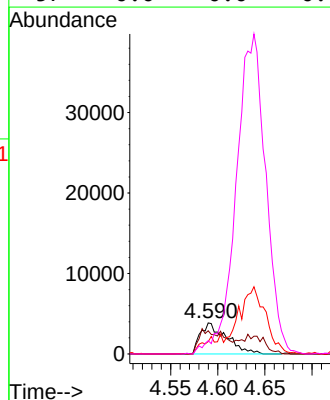
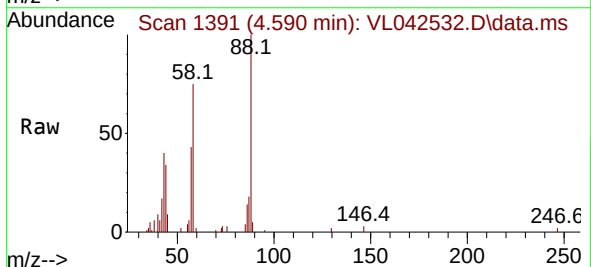
RT: 4.590 min Scan# 1391

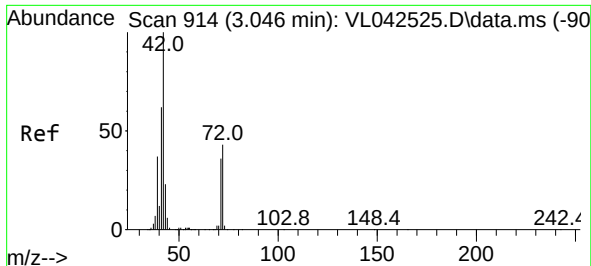
Delta R.T. 0.026 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

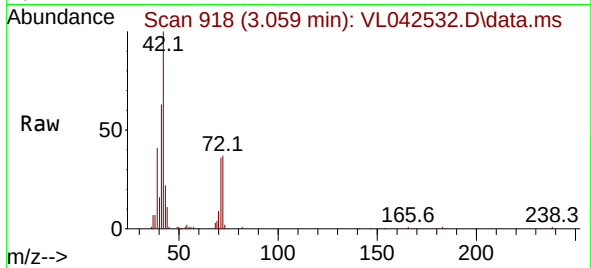
Tgt Ion:	88	Resp:	7446
Ion	Ratio	Lower	Upper
88	100		
58	92.2	58.2	87.2#
43	0.0	27.9	41.9#
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 2.008 ppbv m
RT: 3.059 min Scan# 914
Delta R.T. 0.013 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

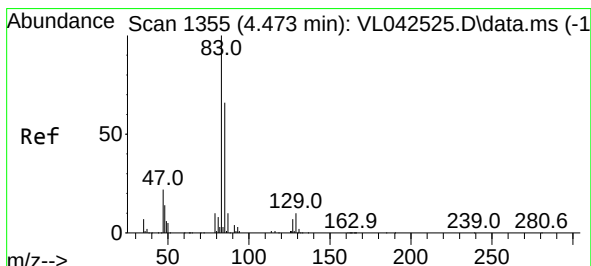
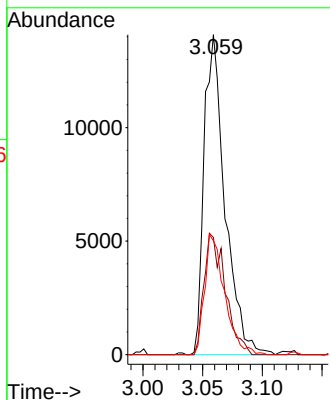
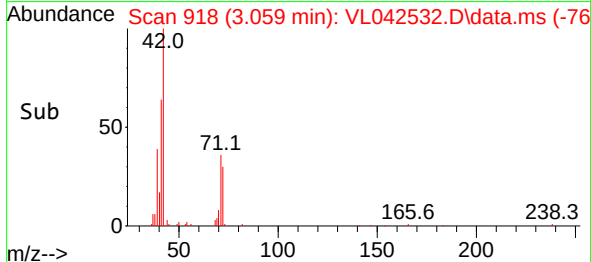
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 42 Resp: 1716
Ion Ratio Lower Upper
42 100
72 38.8 32.7 49.1
71 35.8 30.4 45.6

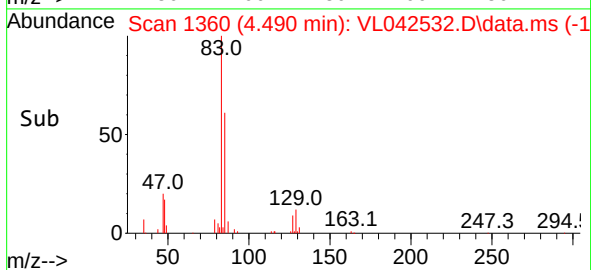
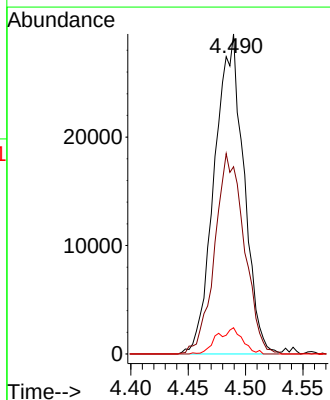
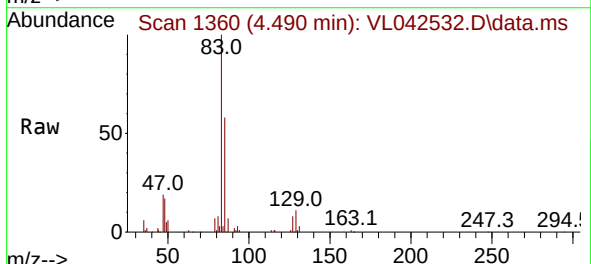
Manual Integrations
APPROVED

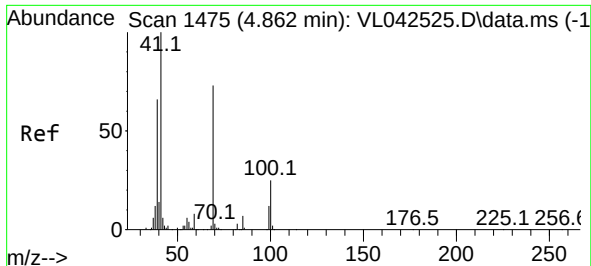
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#42
Bromodichloromethane
Concen: 2.072 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.016 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion: 83 Resp: 52451
Ion Ratio Lower Upper
83 100
85 58.5 52.6 79.0
127 8.2 6.0 9.0





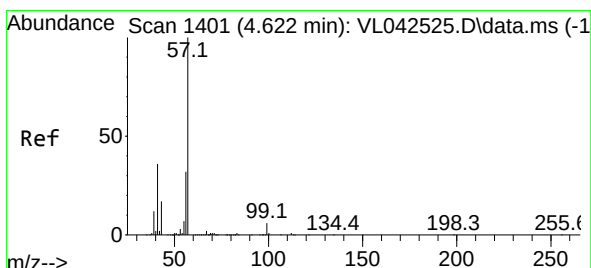
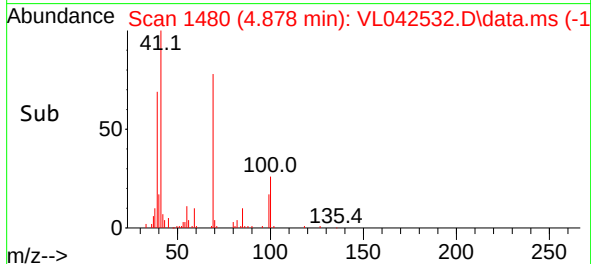
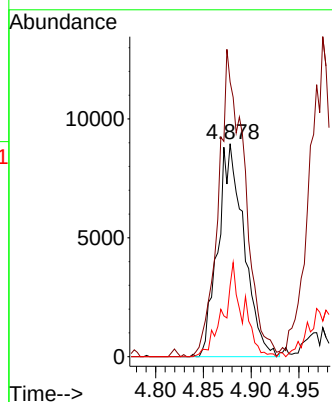
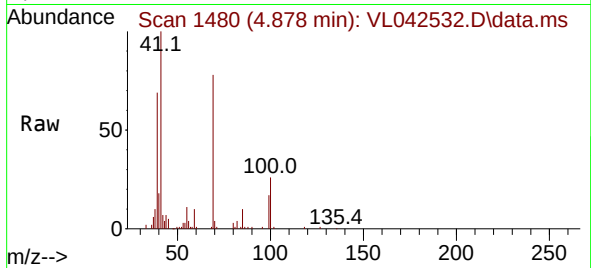
#43
Methyl Methacrylate
Concen: 1.916 ppbv m
RT: 4.878 min Scan# 1475
Delta R.T. 0.016 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Instrument : MSVOA_L
ClientSampleId : VSTDICC002

Tgt Ion: 69 Resp: 17050
Ion Ratio Lower Upper
69 100
41 0.0 119.9 179.9
100 0.0 28.4 42.6

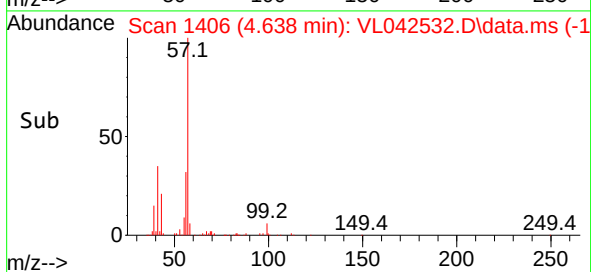
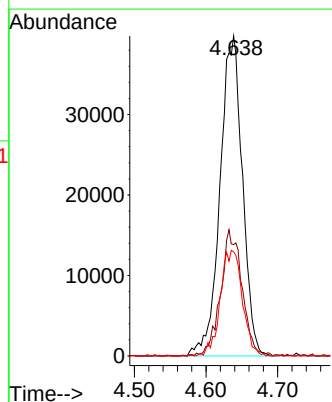
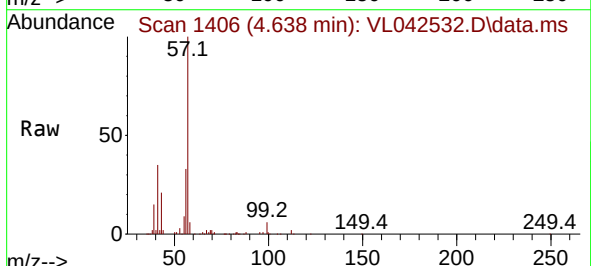
Manual Integrations
APPROVED

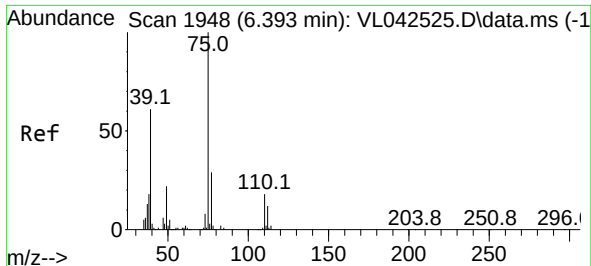
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#44
2,2,4-Trimethylpentane
Concen: 2.068 ppbv m
RT: 4.638 min Scan# 1406
Delta R.T. 0.016 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

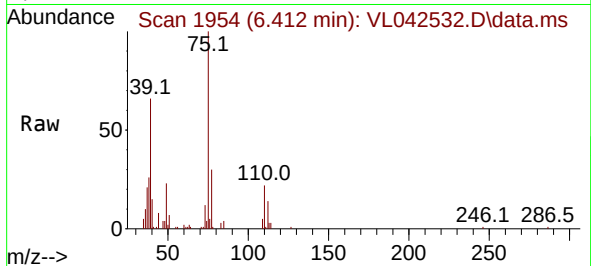
Tgt Ion: 57 Resp: 86512
Ion Ratio Lower Upper
57 100
41 38.0 28.3 42.5
56 0.0 25.9 38.9





#45
t-1,3-Dichloropropene
Concen: 1.790 ppbv m
RT: 6.412 min Scan# 1948
Delta R.T. 0.019 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

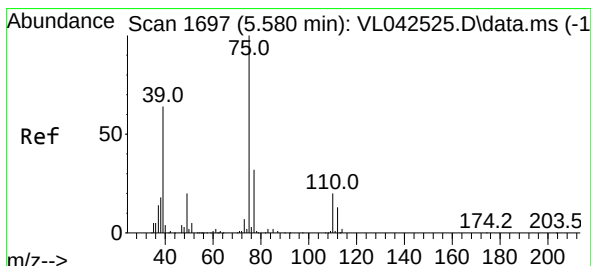
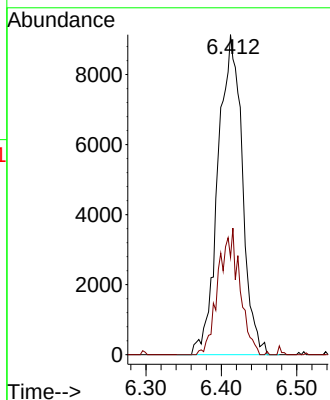
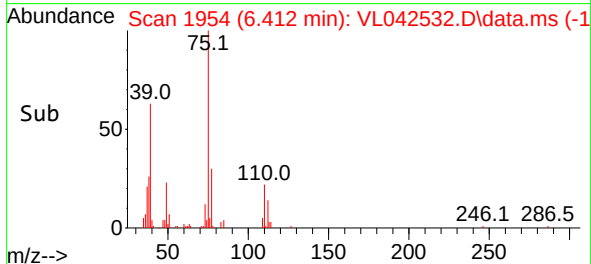
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



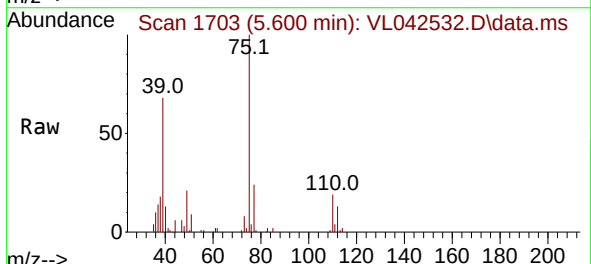
Tgt Ion: 75 Resp: 20334
Ion Ratio Lower Upper
75 100
77 30.4 23.3 34.9

Manual Integrations
APPROVED

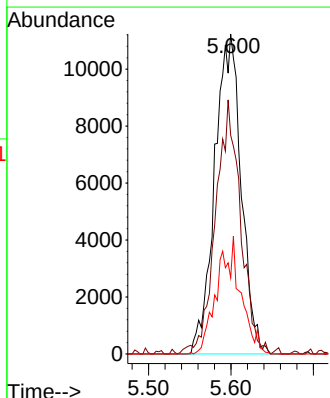
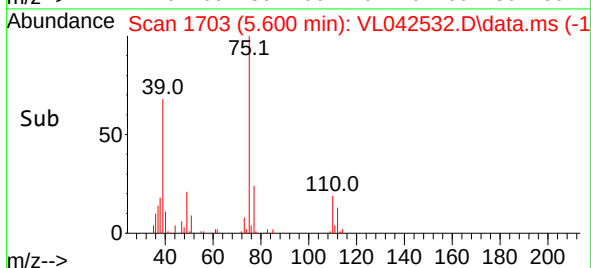
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

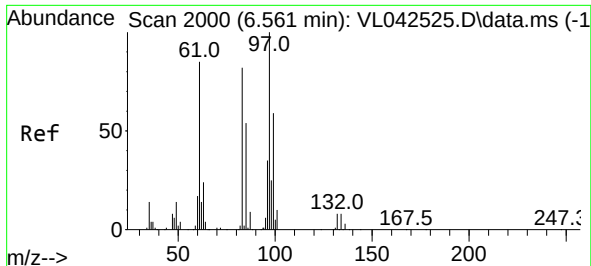


#46
cis-1,3-Dichloropropene
Concen: 1.831 ppbv m
RT: 5.600 min Scan# 1703
Delta R.T. 0.019 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58



Tgt Ion: 75 Resp: 25085
Ion Ratio Lower Upper
75 100
39 68.3 51.2 76.8
77 23.8 25.4 38.0#





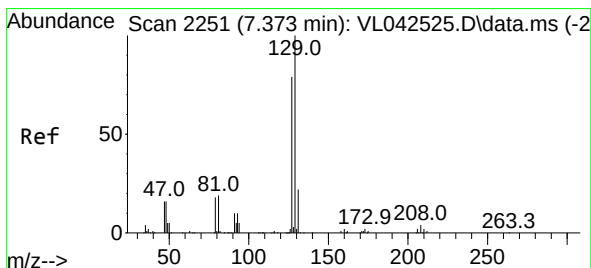
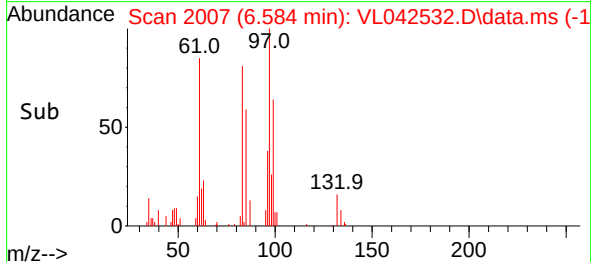
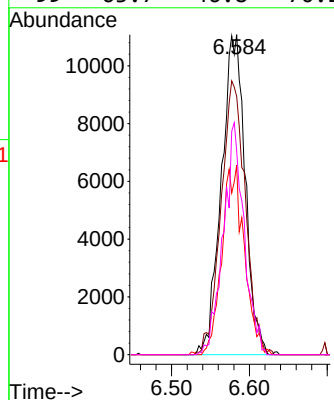
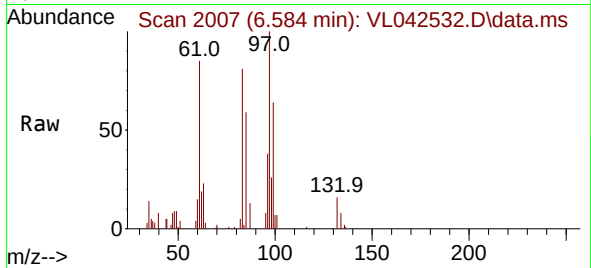
#47
1,1,2-Trichloroethane
Concen: 2.019 ppbv m
RT: 6.584 min Scan# 2000
Delta R.T. 0.023 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 97 Resp: 23580
Ion Ratio Lower Upper
97 100
83 80.7 66.0 99.0
85 59.2 42.8 64.2
99 63.7 46.8 70.2

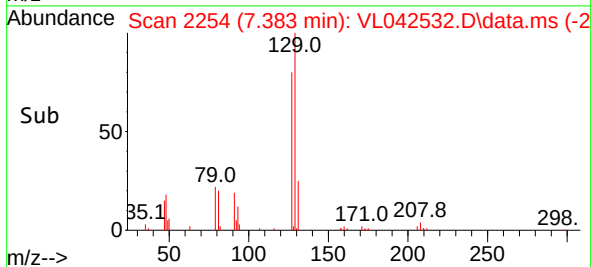
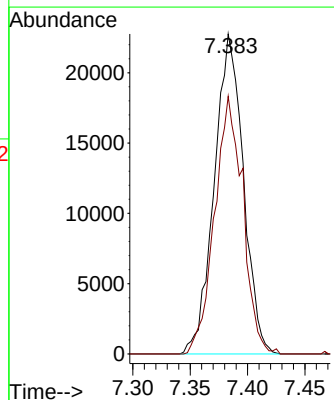
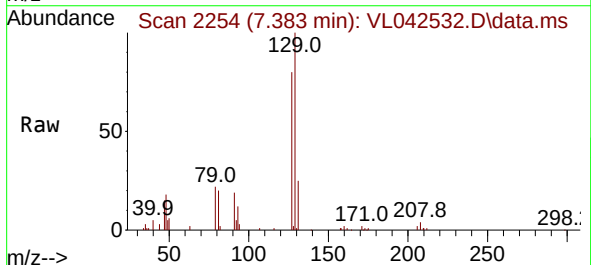
Manual Integrations
APPROVED

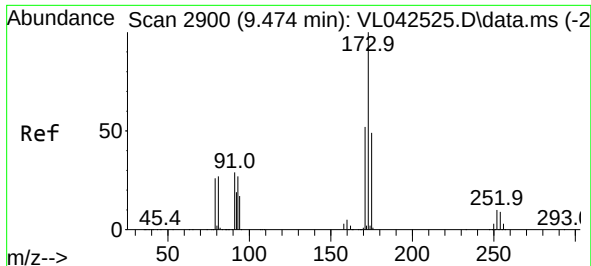
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#48
Dibromochloromethane
Concen: 2.058 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.010 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion:129 Resp: 40163
Ion Ratio Lower Upper
129 100
127 78.4 39.6 118.8





#49

Bromoform

Concen: 2.056 ppbv

RT: 9.480 min Scan# 2900

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

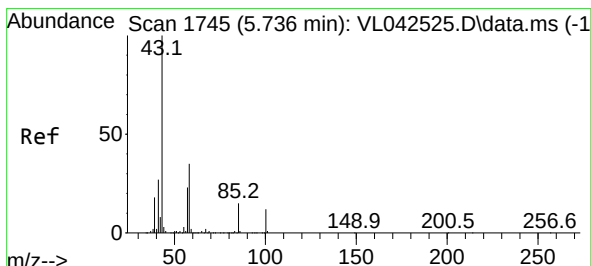
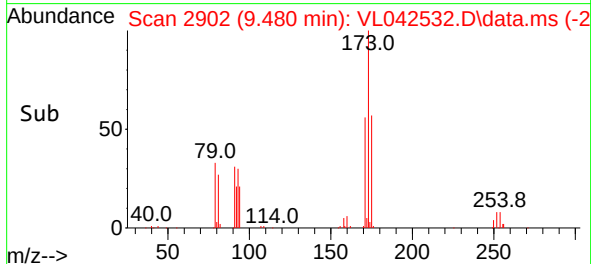
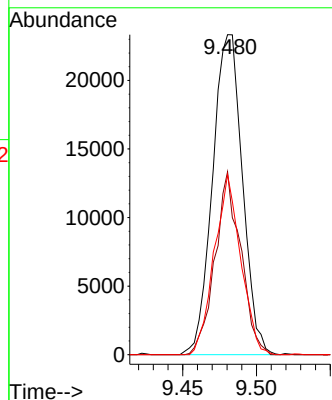
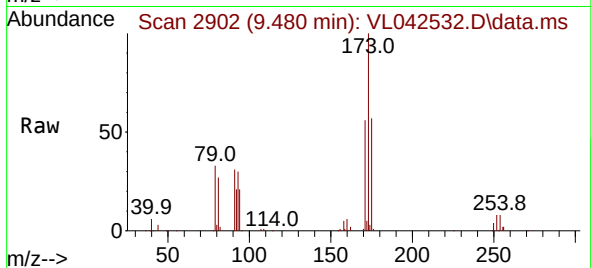
VSTDIC002

Tgt Ion:173	Resp:	32910
Ion Ratio	Lower	Upper
173	100	
175	49.2	39.1 58.7
171	49.8	41.8 62.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#50

4-Methyl-2-Pentanone

Concen: 1.994 ppbv

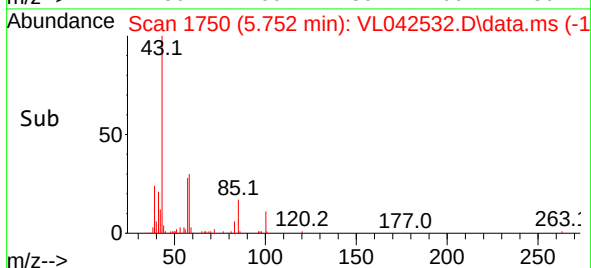
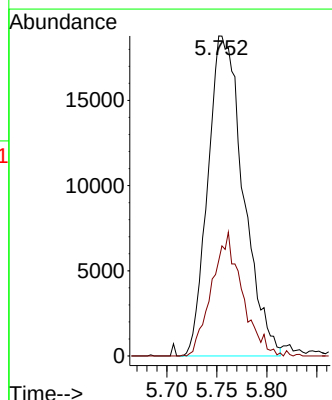
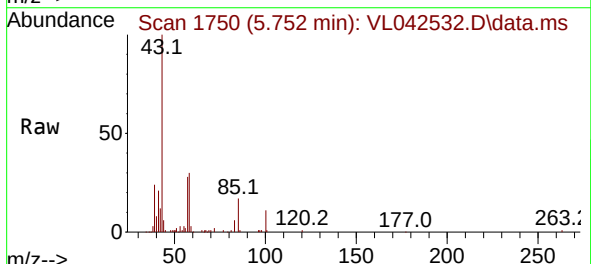
RT: 5.752 min Scan# 1750

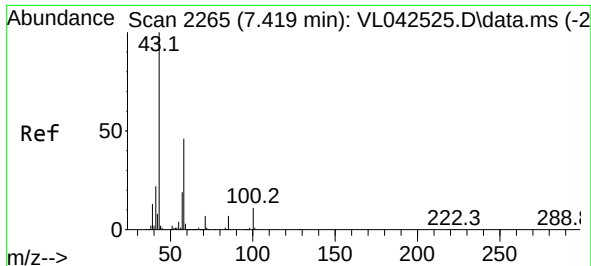
Delta R.T. 0.016 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

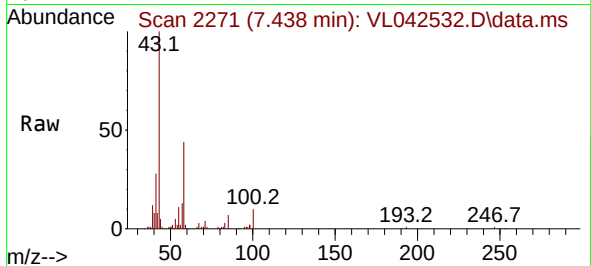
Tgt Ion: 43	Resp:	46331
Ion Ratio	Lower	Upper
43	100	
58	33.4	28.6 42.8





#51
2-Hexanone
Concen: 1.916 ppbv
RT: 7.438 min Scan# 2113
Delta R.T. 0.019 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

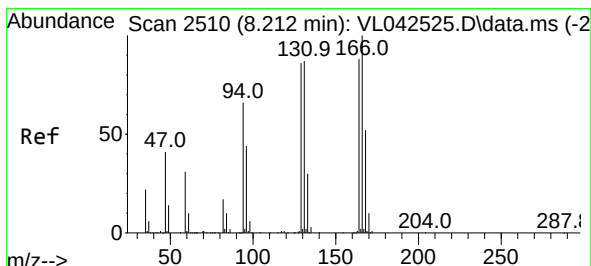
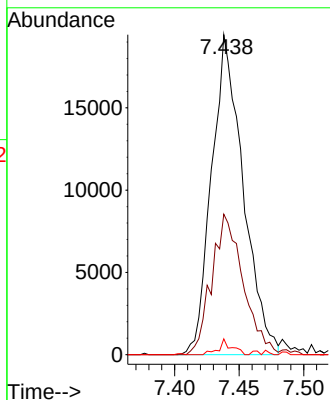
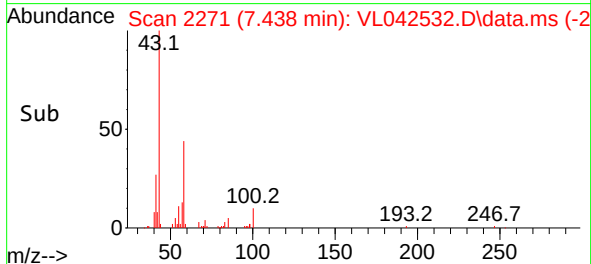
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



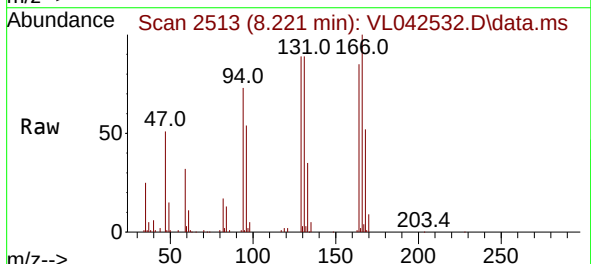
Tgt Ion: 43 Resp: 3308
Ion Ratio Lower Upper
43 100
58 44.3 37.5 56.3
98 2.7 0.9 1.3

Manual Integrations
APPROVED

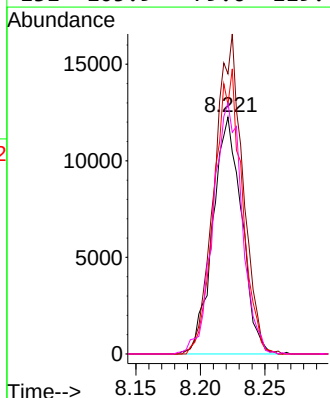
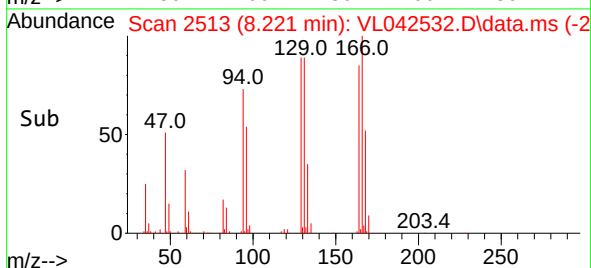
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

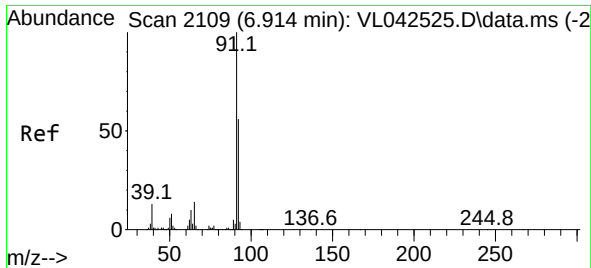


#52
Tetrachloroethene
Concen: 1.863 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.010 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58



Tgt Ion:164 Resp: 19118
Ion Ratio Lower Upper
164 100
166 118.3 91.3 136.9
129 105.4 78.9 118.3
131 105.9 79.6 119.4





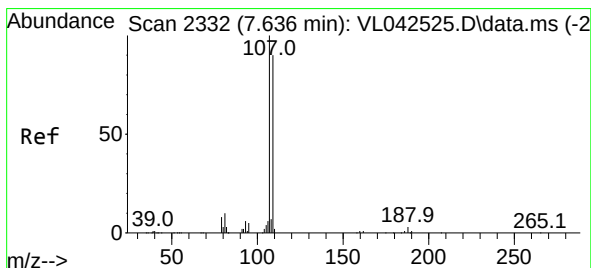
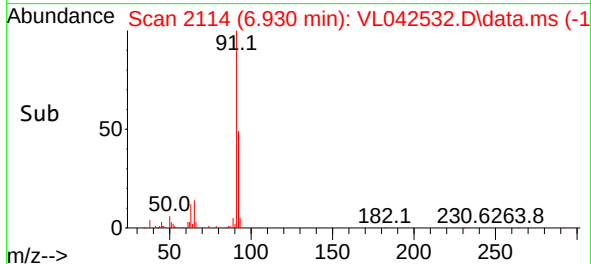
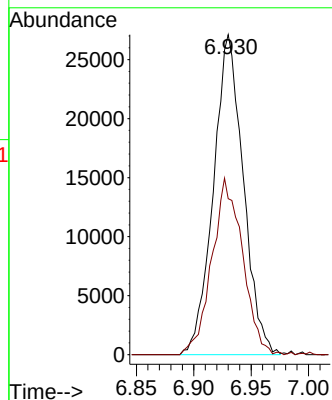
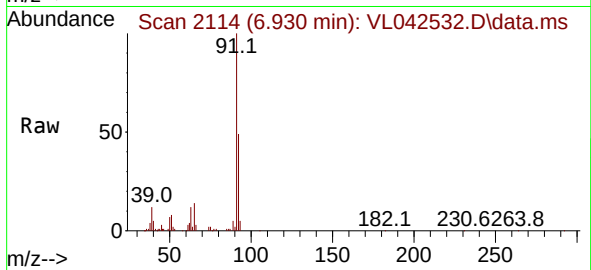
#53
Toluene
Concen: 1.882 ppbv
RT: 6.930 min Scan# 2109
Delta R.T. 0.016 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 91 Resp: 49210
Ion Ratio Lower Upper
91 100
92 56.6 47.8 71.6

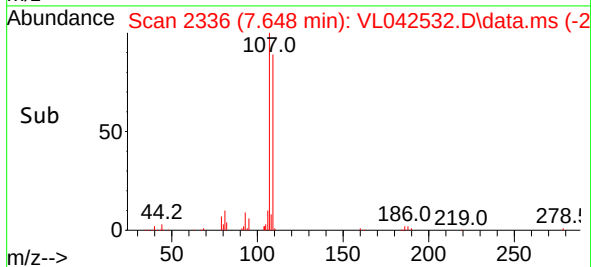
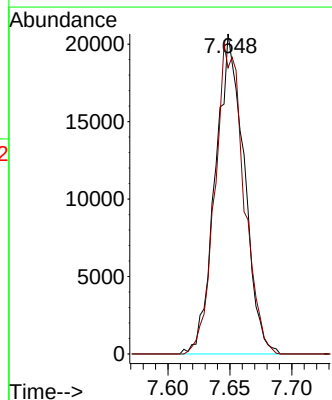
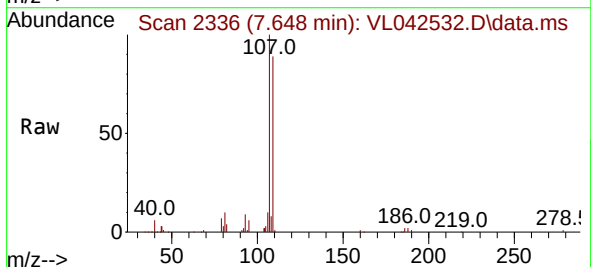
Manual Integrations
APPROVED

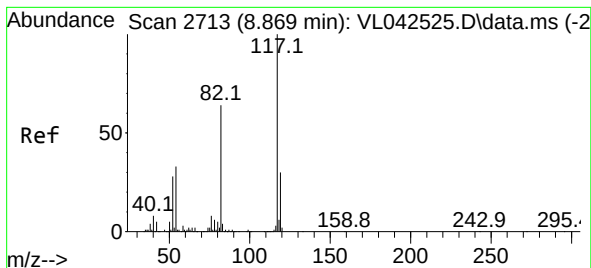
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#54
1,2-Dibromoethane
Concen: 1.958 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. 0.013 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion:107 Resp: 33420
Ion Ratio Lower Upper
107 100
109 89.5 72.2 108.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 2713

Delta R.T. 0.013 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

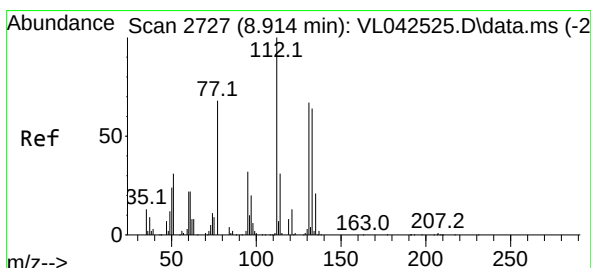
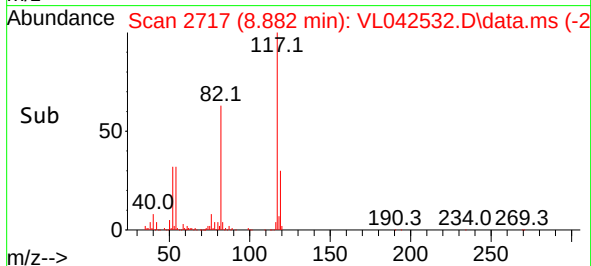
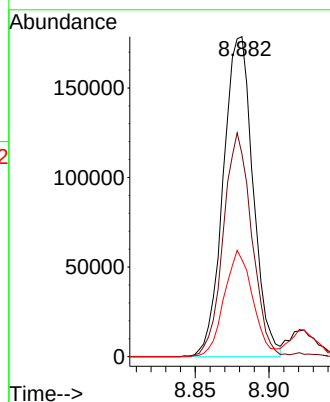
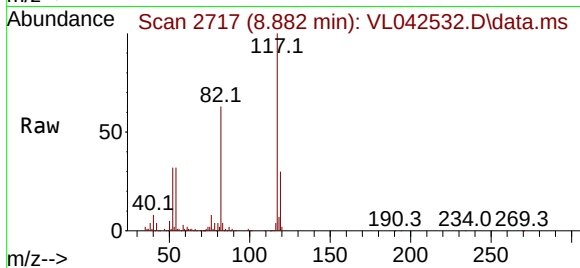
Tgt Ion:117 Resp: 25130

Ion	Ratio	Lower	Upper
117	100		
82	67.6	55.0	82.4
119	31.9	25.8	38.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 2.119 ppbv

RT: 8.924 min Scan# 2730

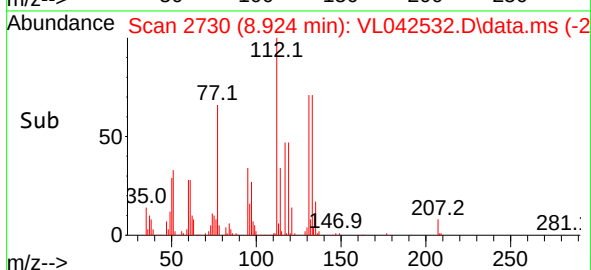
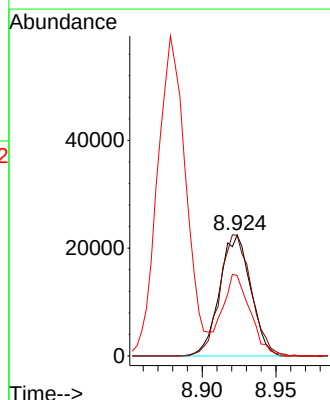
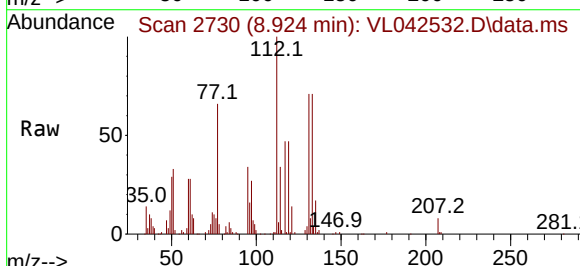
Delta R.T. 0.010 min

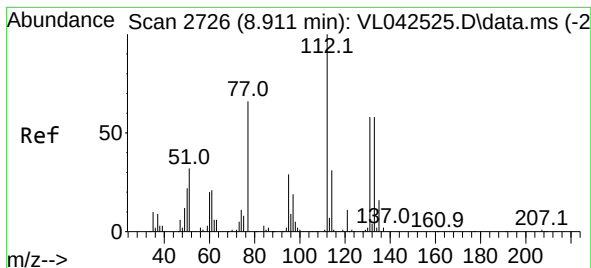
Lab File: VL042532.D

Acq: 12 May 2025 12:58

Tgt Ion:131 Resp: 33013

Ion	Ratio	Lower	Upper
131	100		
133	100.7	77.4	116.2
119	54.3	49.0	73.4





#57

Chlorobenzene

Concen: 2.147 ppbv

RT: 8.917 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

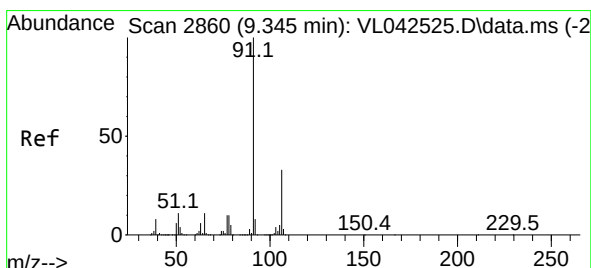
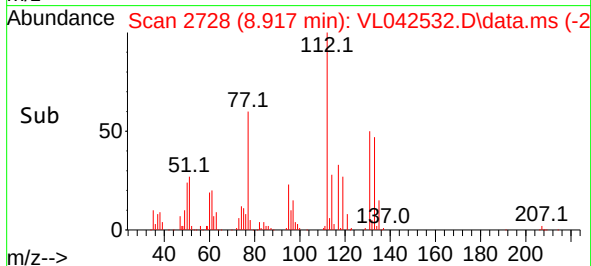
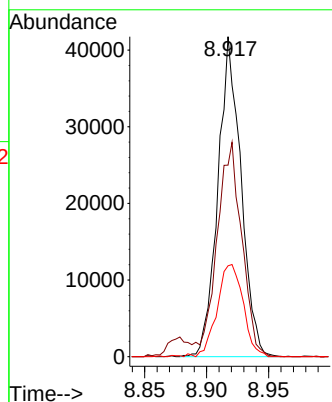
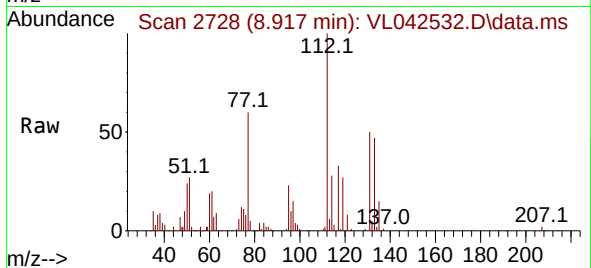
VSTDIC002

Tgt Ion:	112	Resp:	5417
Ion Ratio	Lower	Upper	
112	100		
77	59.7	53.6	80.4
114	28.4	28.2	34.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#58

Ethyl Benzene

Concen: 1.934 ppbv

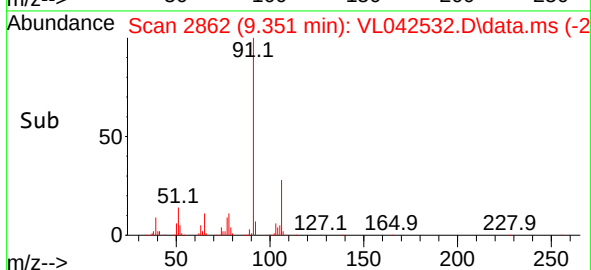
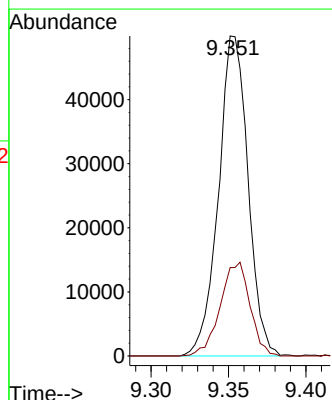
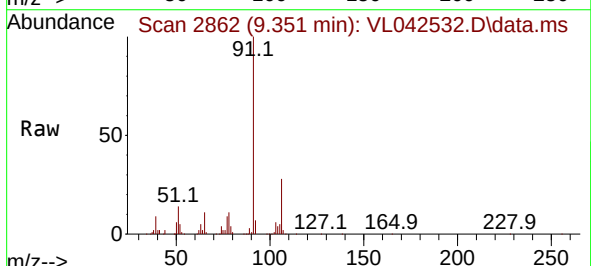
RT: 9.351 min Scan# 2862

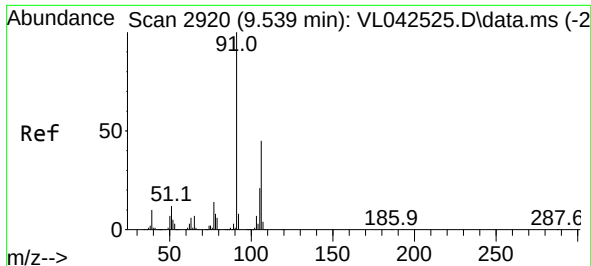
Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Tgt Ion:	91	Resp:	66256
Ion Ratio	Lower	Upper	
91	100		
106	27.6	26.0	39.0





#59

m/p-Xylene

Concen: 4.372 ppbv m

RT: 9.545 min Scan# 2920

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 91 Resp: 13320

Ion Ratio Lower Upper

91 100

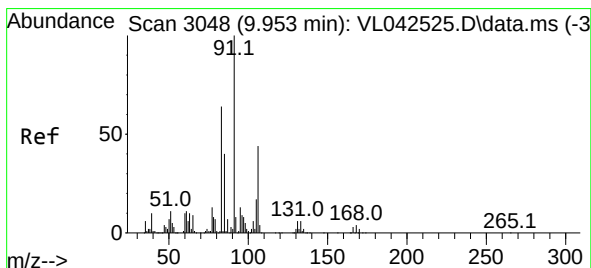
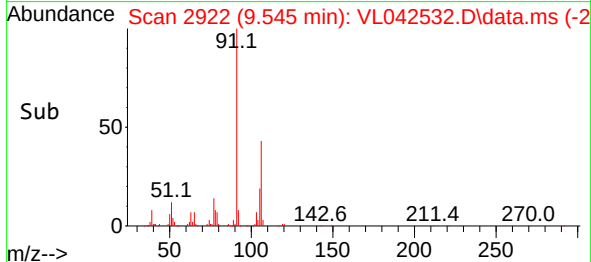
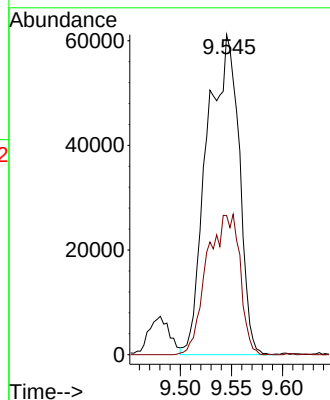
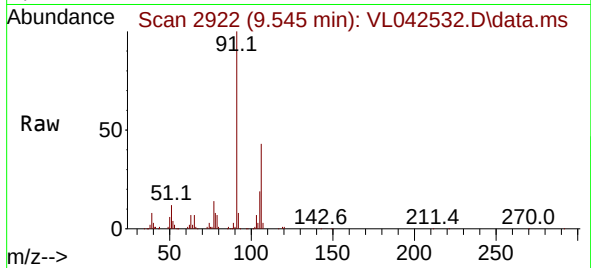
106 45.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#60

o-Xylene

Concen: 2.188 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.010 min

Lab File: VL042532.D

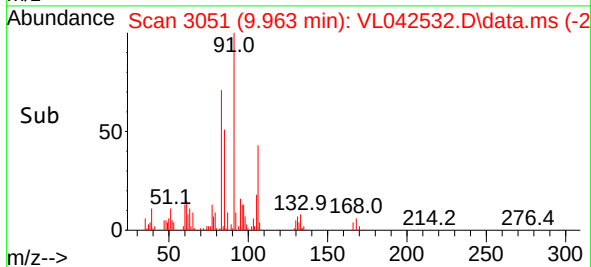
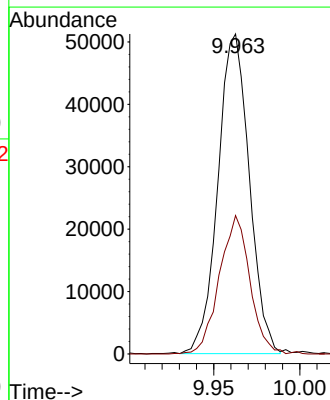
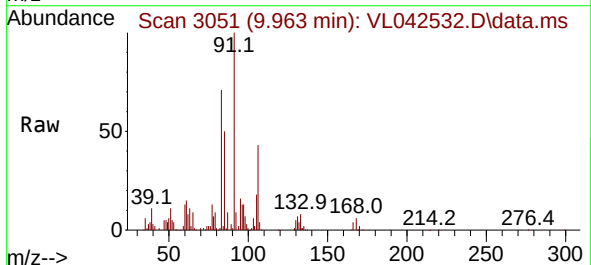
Acq: 12 May 2025 12:58

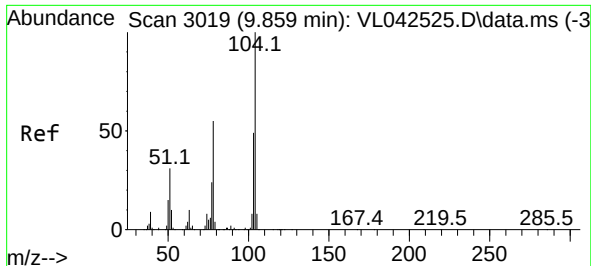
Tgt Ion: 91 Resp: 64958

Ion Ratio Lower Upper

91 100

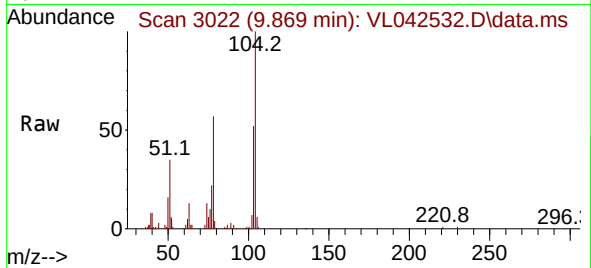
106 42.3 21.6 64.6





#61
Styrene
Concen: 1.802 ppbv m
RT: 9.869 min Scan# 3019
Delta R.T. 0.010 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

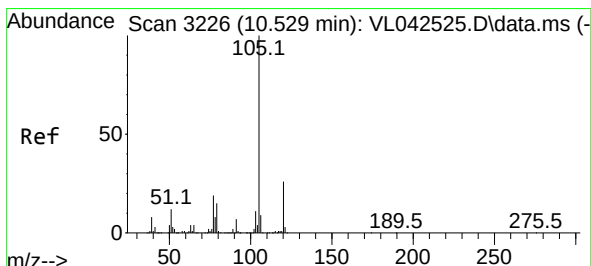
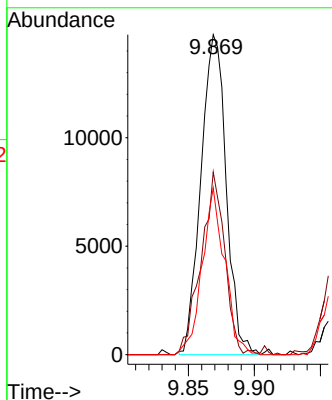
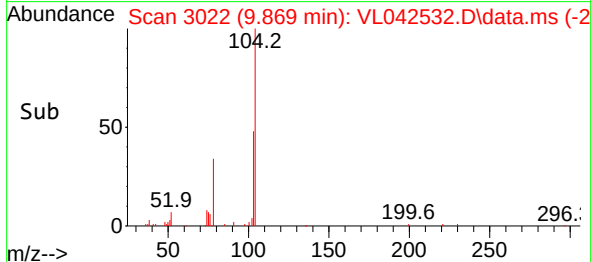
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion:104 Resp: 1971
Ion Ratio Lower Upper
104 100
78 53.9 44.7 67.1
103 46.5 38.6 58.0

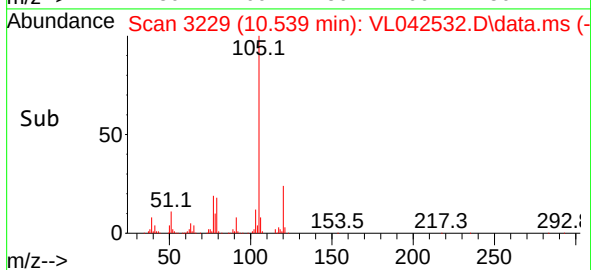
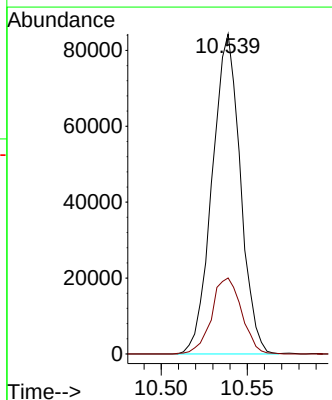
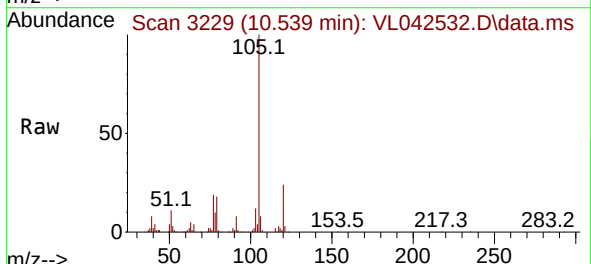
Manual Integrations
APPROVED

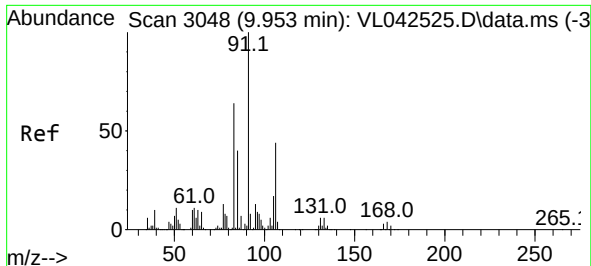
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#62
Isopropylbenzene
Concen: 2.147 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.010 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

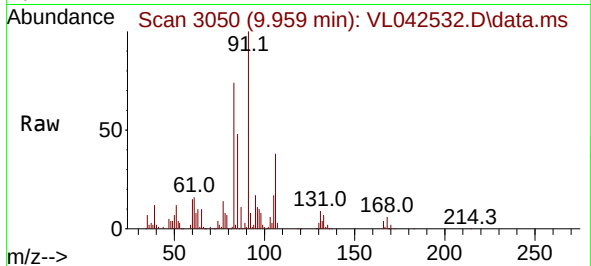
Tgt Ion:105 Resp: 96054
Ion Ratio Lower Upper
105 100
120 25.3 20.1 30.1





#63
1,1,2,2-Tetrachloroethane
Concen: 2.096 ppbv
RT: 9.959 min Scan# 3048
Delta R.T. 0.006 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

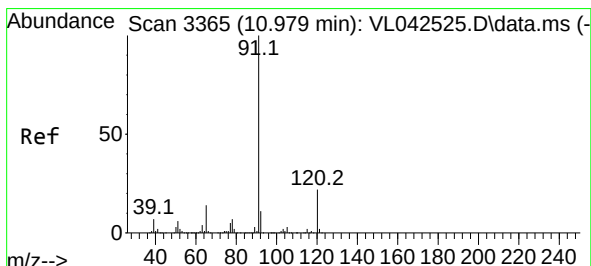
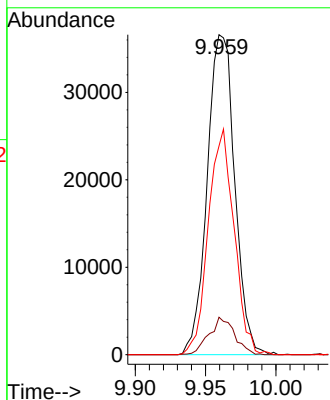
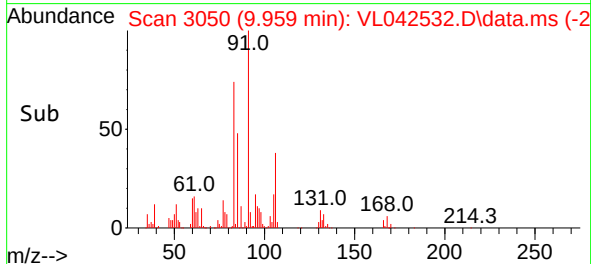
Instrument : MSVOA_L
ClientSampleId : VSTDICC002



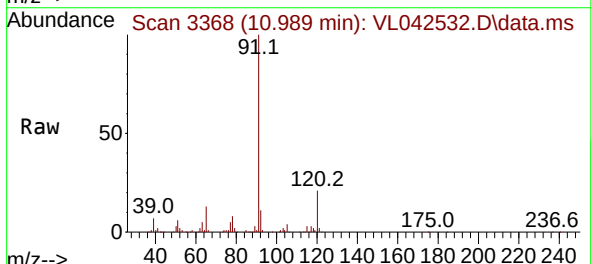
Tgt Ion: 83 Resp: 4990
Ion Ratio Lower Upper
83 100
131 10.8 4.9 14.7
85 65.9 32.3 96.8

Manual Integrations
APPROVED

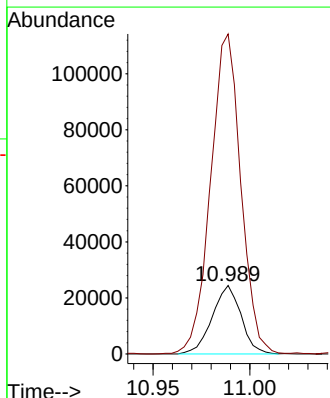
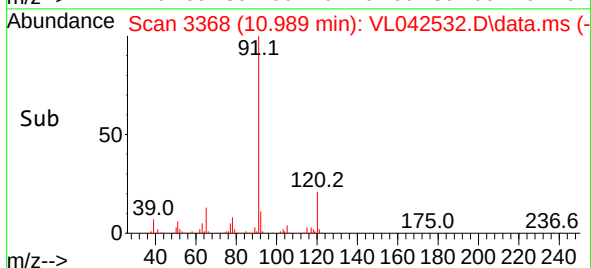
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

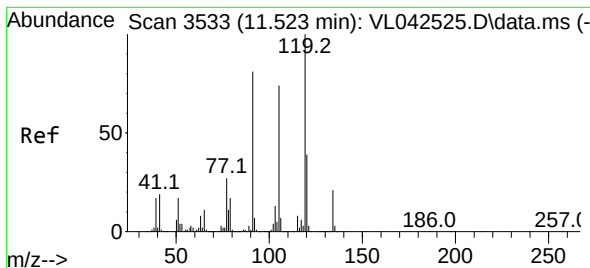


#64
n-propylbenzene
Concen: 2.230 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.010 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58



Tgt Ion:120 Resp: 25286
Ion Ratio Lower Upper
120 100
91 491.5 377.7 566.5





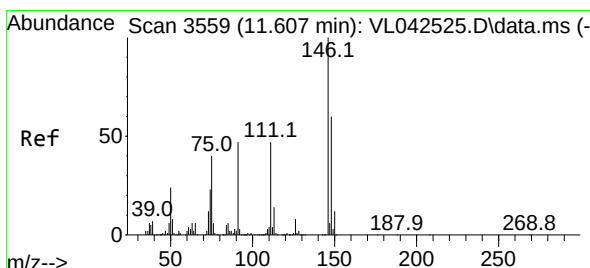
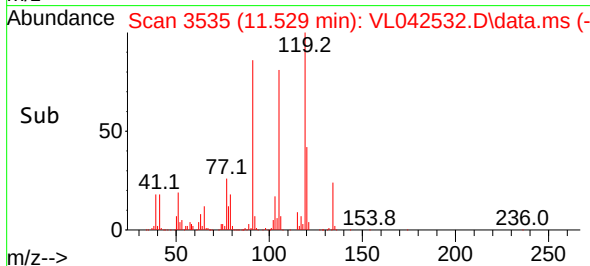
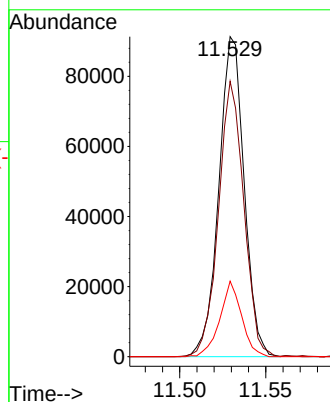
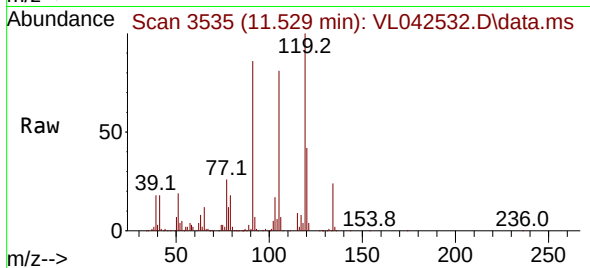
#65
tert-Butylbenzene
Concen: 2.278 ppbv
RT: 11.529 min Scan# 3533
Delta R.T. 0.006 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion:	119	Resp:	93604
Ion Ratio	Lower	Upper	
119	100		
91	86.3	66.6	99.8
134	20.3	16.3	24.5

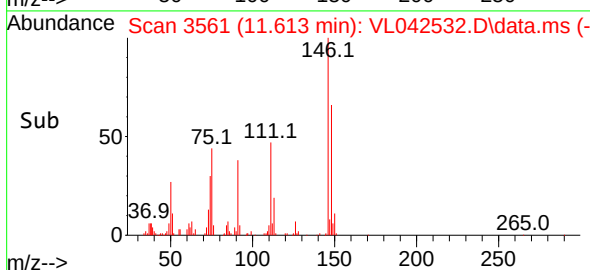
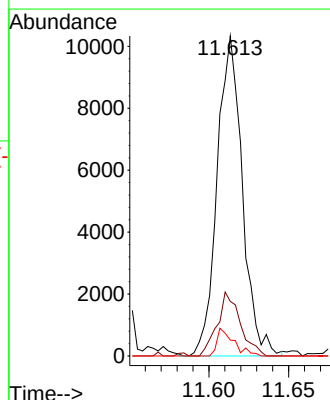
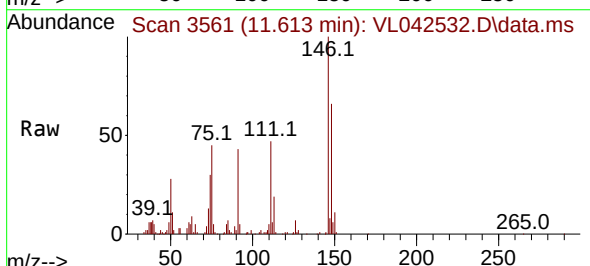
Manual Integrations
APPROVED

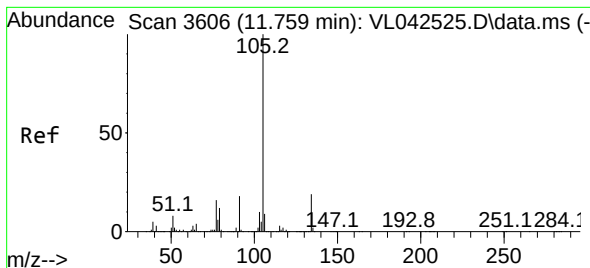
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#66
Benzyl Chloride
Concen: 2.089 ppbv m
RT: 11.613 min Scan# 3561
Delta R.T. 0.006 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion:	91	Resp:	11357
Ion Ratio	Lower	Upper	
91	100		
126	18.7	13.7	20.5
128	5.8	4.2	6.2





#67

sec-Butylbenzene

Concen: 2.316 ppbv

RT: 11.765 min Scan# 3608

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion:105 Resp: 136432

Ion Ratio Lower Upper

105 100

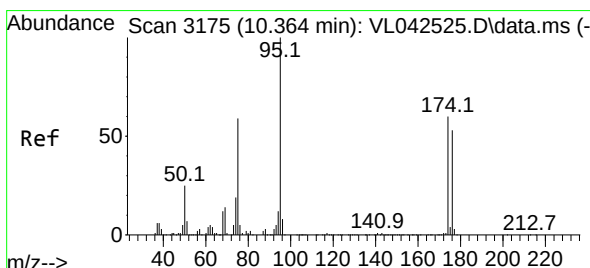
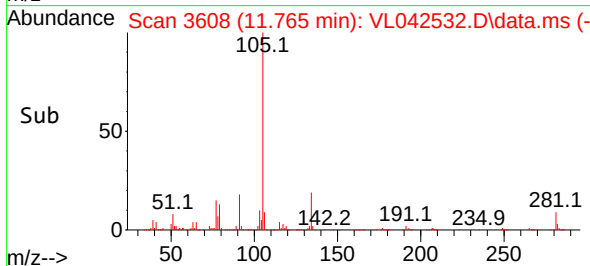
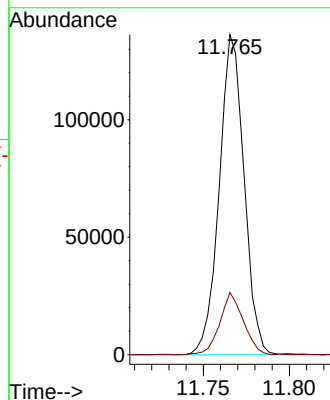
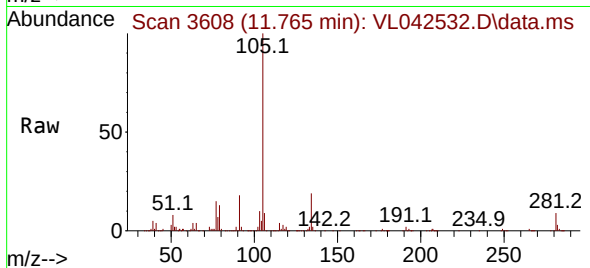
134 18.5 14.9 22.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.238 ppbv

RT: 10.374 min Scan# 3178

Delta R.T. 0.010 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

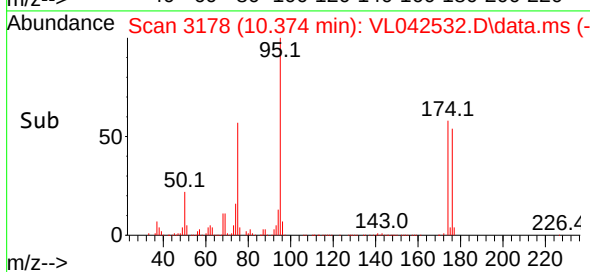
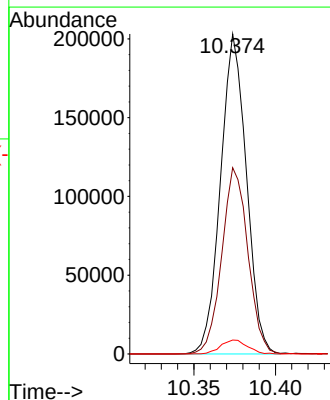
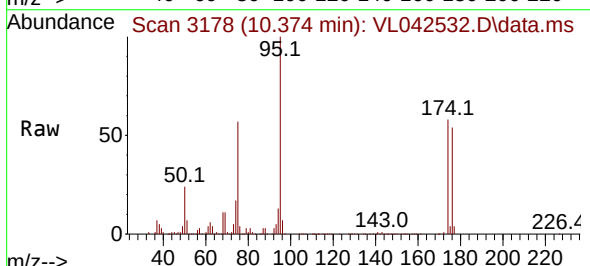
Tgt Ion: 95 Resp: 223868

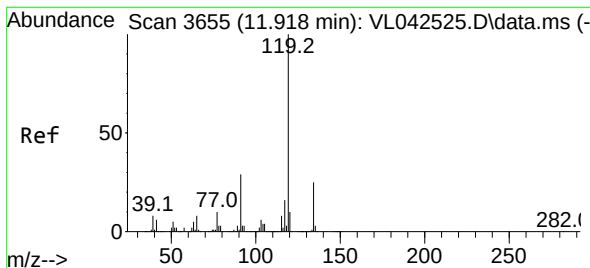
Ion Ratio Lower Upper

95 100

174 59.0 48.0 72.0

175 4.6 3.5 5.3





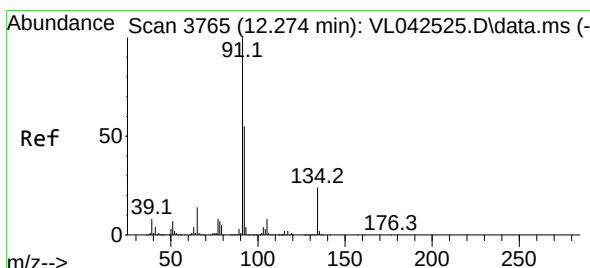
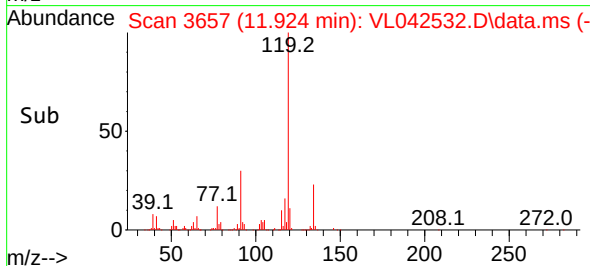
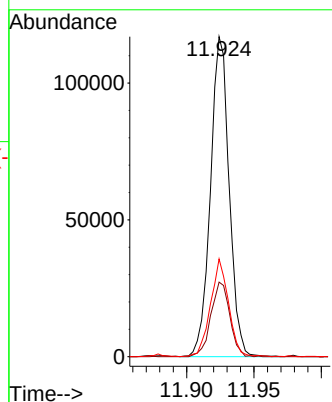
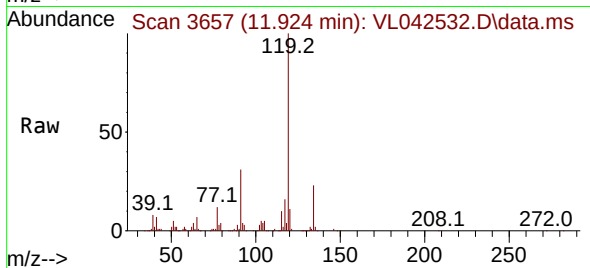
#69
 p-Isopropyltoluene
 Concen: 2.332 ppbv
 RT: 11.924 min Scan# 3657
 Delta R.T. 0.006 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion:	119	Resp:	11291
Ion	Ratio	Lower	Upper
119	100		
134	23.5	19.8	29.6
91	30.3	23.6	35.4

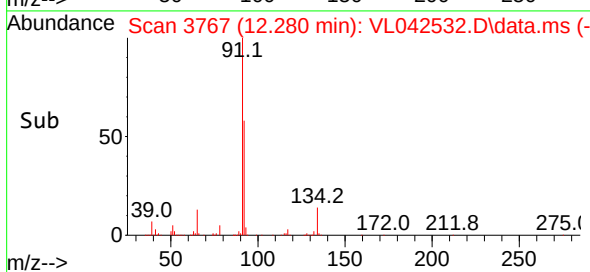
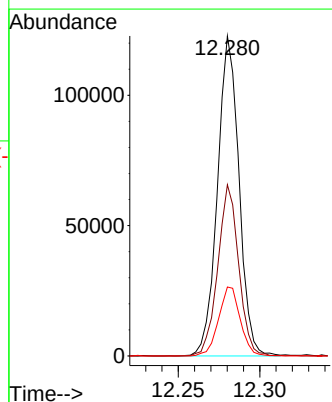
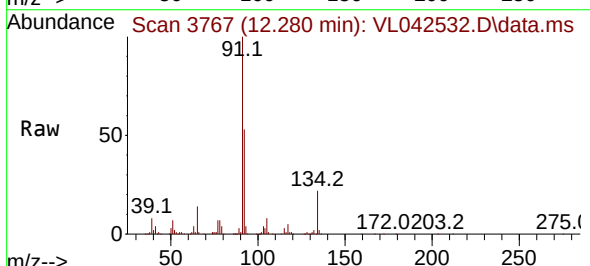
Manual Integrations
 APPROVED

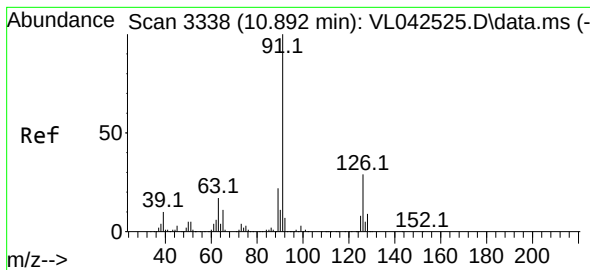
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#70
 n-Butylbenzene
 Concen: 2.357 ppbv
 RT: 12.280 min Scan# 3767
 Delta R.T. 0.006 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

Tgt Ion:	91	Resp:	112776
Ion	Ratio	Lower	Upper
91	100		
92	51.8	43.7	65.5
134	21.7	18.9	28.3





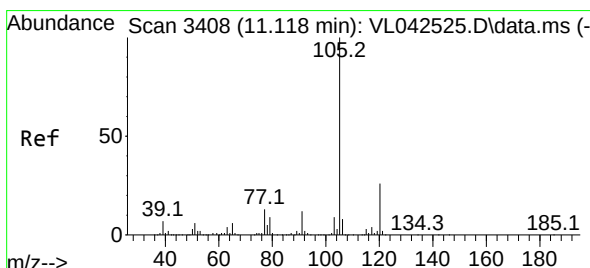
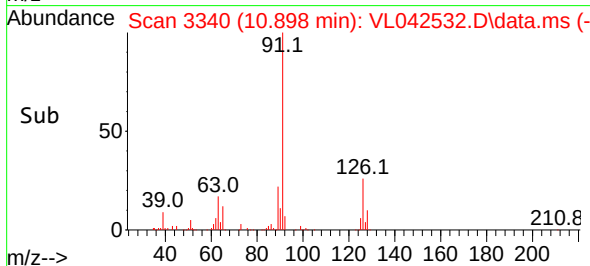
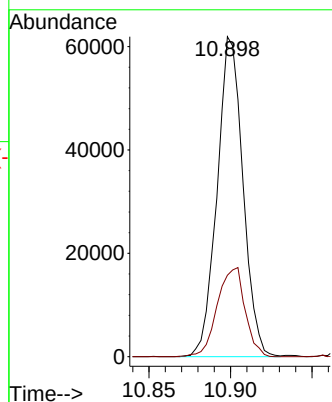
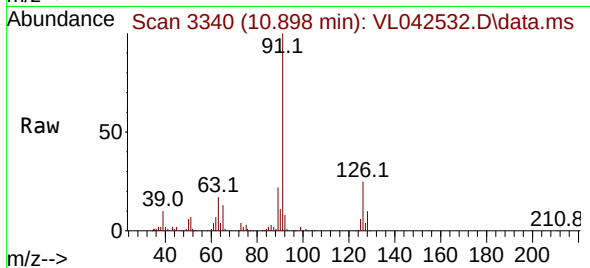
#71
2-Chlorotoluene
Concen: 2.012 ppbv
RT: 10.898 min Scan# 311
Delta R.T. 0.006 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 91 Resp: 6815
Ion Ratio Lower Upper
91 100
126 29.9 11.4 45.6

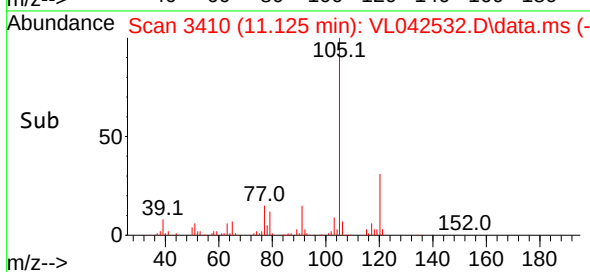
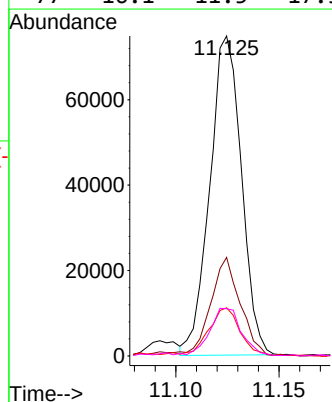
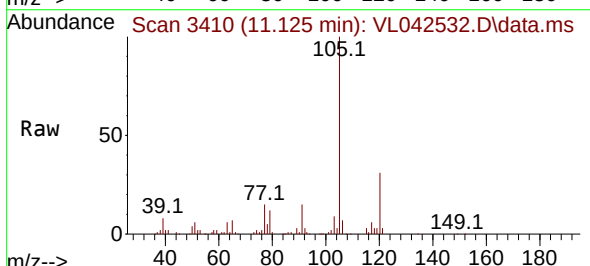
Manual Integrations
APPROVED

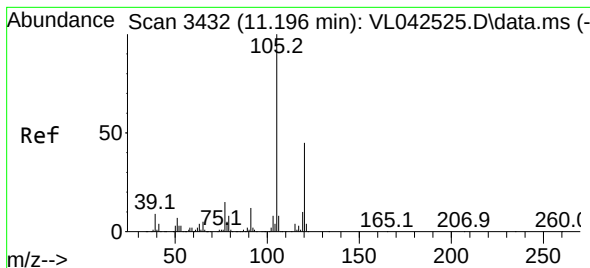
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#72
4-Ethyltoluene
Concen: 2.162 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.006 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Tgt Ion:105 Resp: 79670
Ion Ratio Lower Upper
105 100
120 30.3 22.9 34.3
91 16.3 10.9 16.3
77 16.1 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 2.242 ppbv

RT: 11.202 min Scan# 3432

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion:105 Resp: 7198

Ion Ratio Lower Upper

105 100

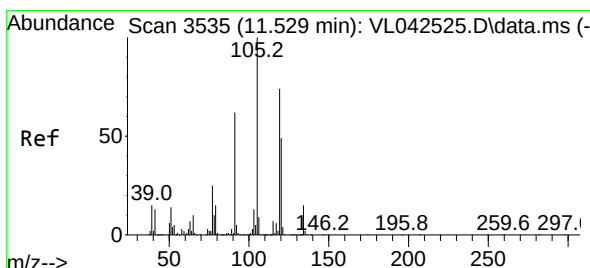
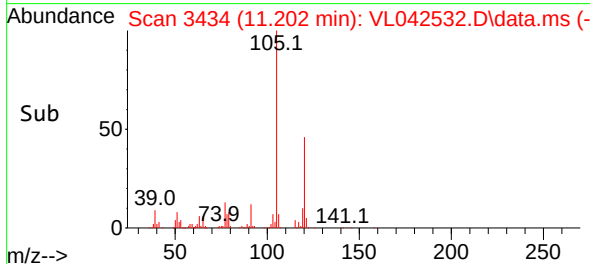
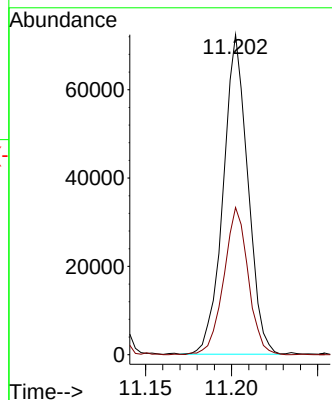
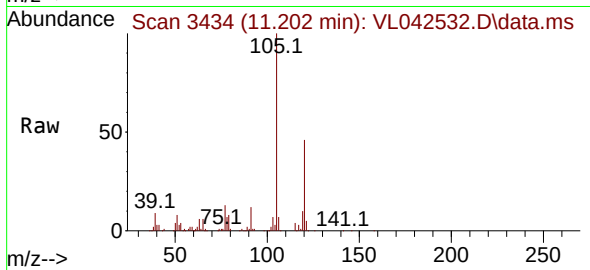
120 46.0 36.0 54.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#74

1,2,4-Trimethylbenzene

Concen: 2.443 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Tgt Ion:105 Resp: 96474

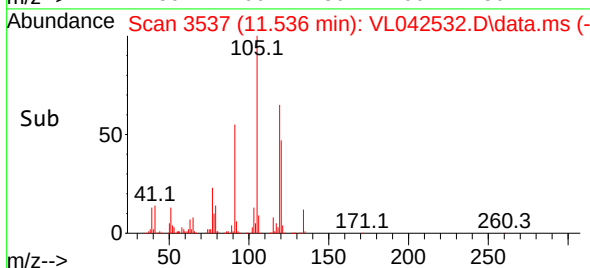
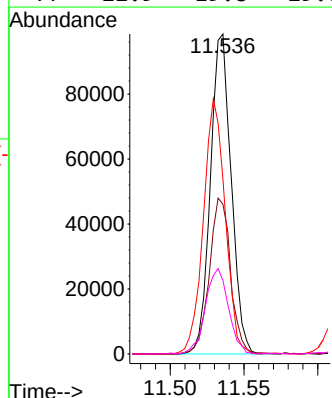
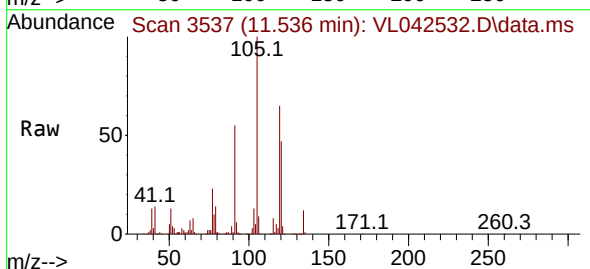
Ion Ratio Lower Upper

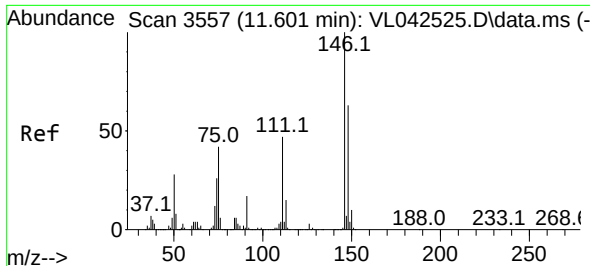
105 100

120 46.8 39.0 58.6

91 54.6 49.4 74.2

77 22.9 19.8 29.6





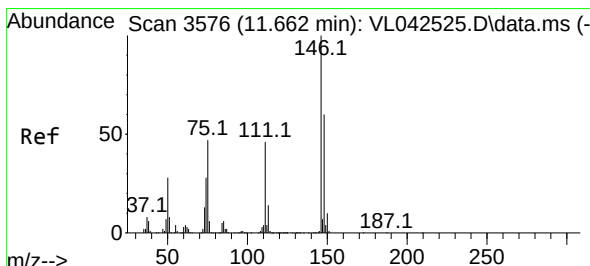
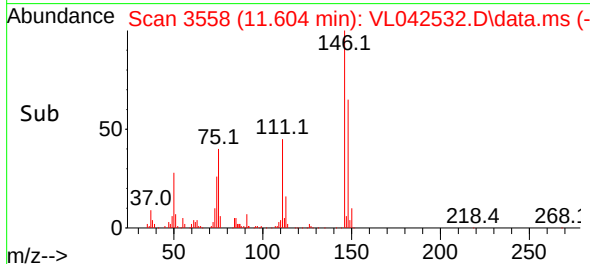
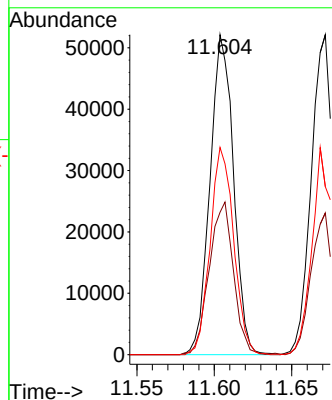
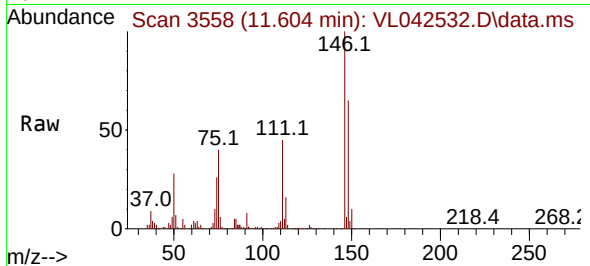
#75
1,3-Dichlorobenzene
Concen: 2.221 ppbv
RT: 11.604 min Scan# 3557
Delta R.T. 0.003 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

Tgt Ion:146 Resp: 54948
Ion Ratio Lower Upper
146 100
111 49.2 23.6 71.0
148 65.0 31.6 94.8

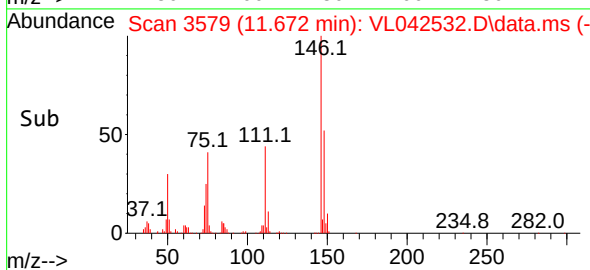
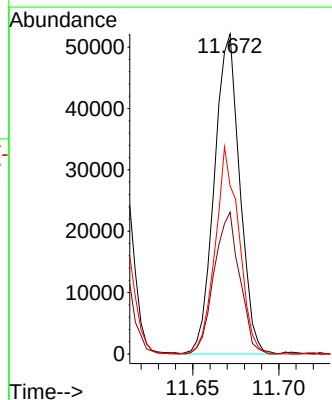
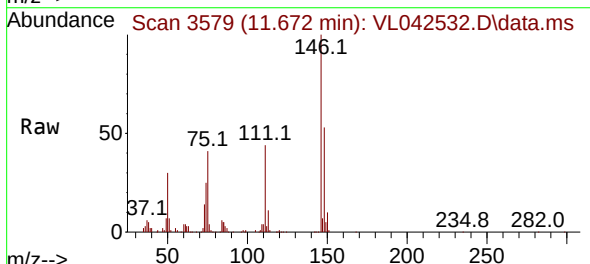
Manual Integrations
APPROVED

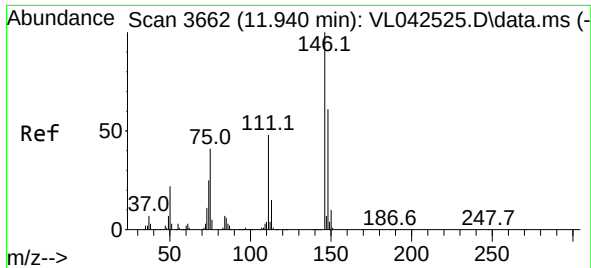
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#76
1,4-Dichlorobenzene
Concen: 2.272 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.010 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

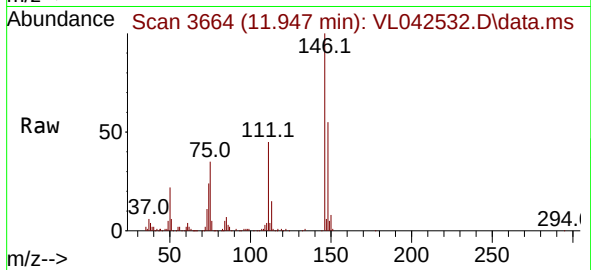
Tgt Ion:146 Resp: 53480
Ion Ratio Lower Upper
146 100
111 44.8 23.4 70.3
148 60.3 31.6 94.7





#77
1,2-Dichlorobenzene
Concen: 2.317 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.006 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58

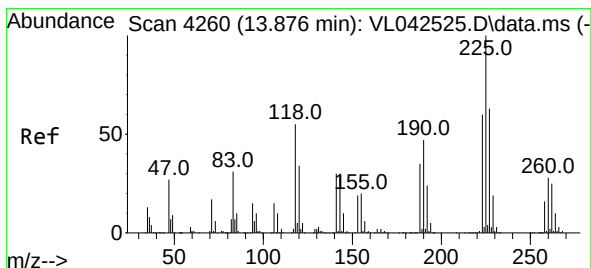
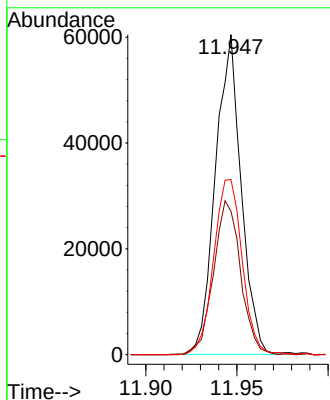
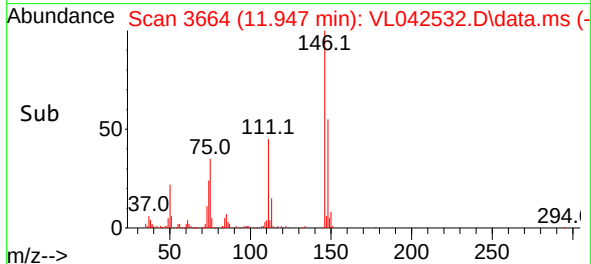
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



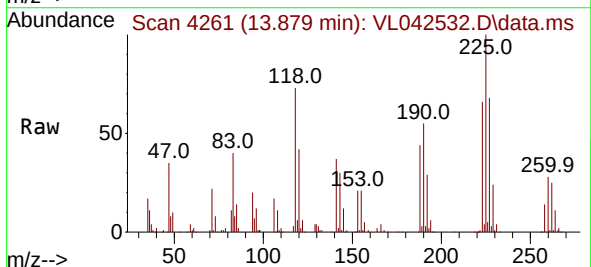
Tgt Ion:146 Resp: 59194
Ion Ratio Lower Upper
146 100
111 50.9 24.9 74.8
148 60.9 31.4 94.2

Manual Integrations
APPROVED

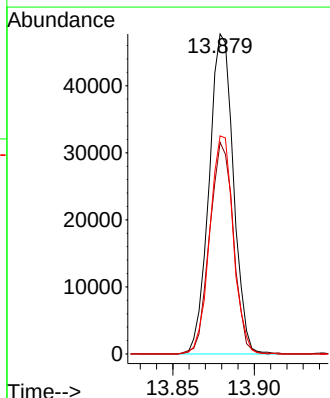
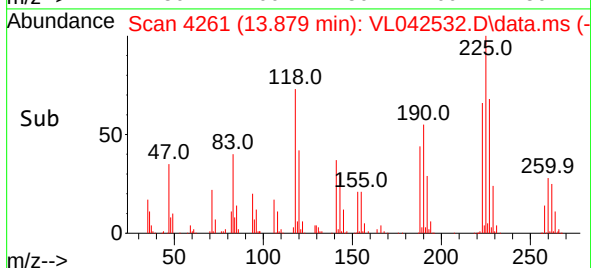
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

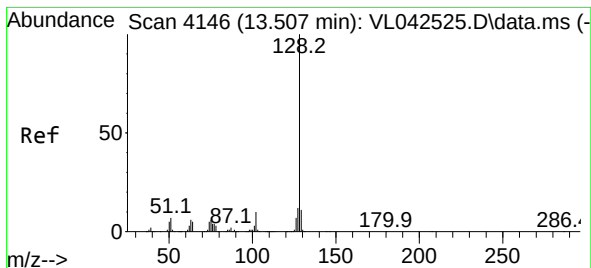


#78
Hexachloro-1,3-Butadiene
Concen: 2.258 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.003 min
Lab File: VL042532.D
Acq: 12 May 2025 12:58



Tgt Ion:225 Resp: 49456
Ion Ratio Lower Upper
225 100
223 64.6 50.8 76.2
227 65.9 50.5 75.7





#79

Naphthalene

Concen: 2.564 ppbv

RT: 13.513 min Scan# 4146

Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

Instrument :

MSVOA_L

ClientSampleId :

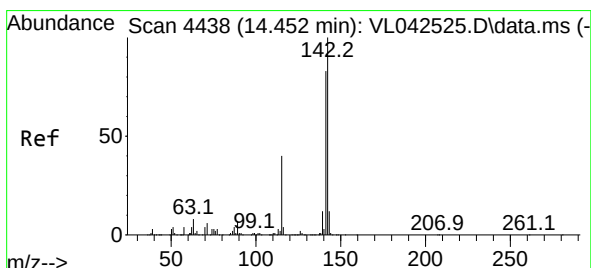
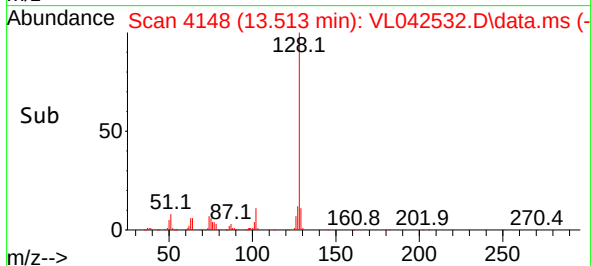
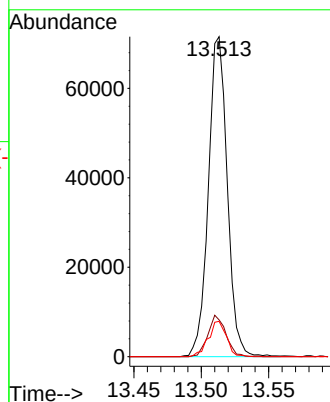
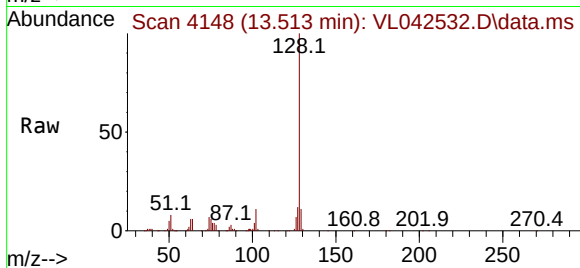
VSTDIC002

Tgt Ion:	128	Resp:	6990
Ion Ratio	Lower	Upper	
128	100		
127	11.5	9.8	14.8
129	11.0	8.6	12.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#80

Naphthalene,2-methyl-

Concen: 1.841 ppbv

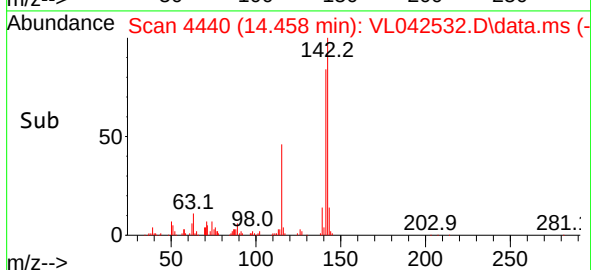
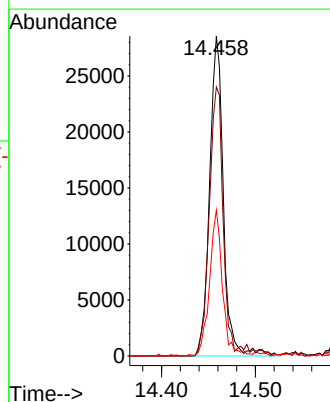
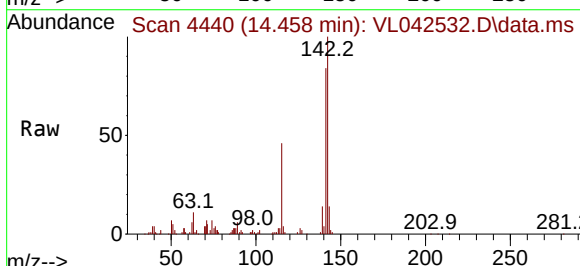
RT: 14.458 min Scan# 4440

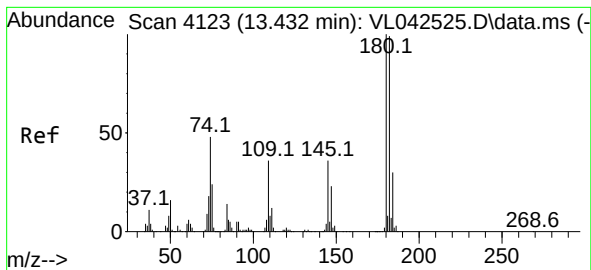
Delta R.T. 0.006 min

Lab File: VL042532.D

Acq: 12 May 2025 12:58

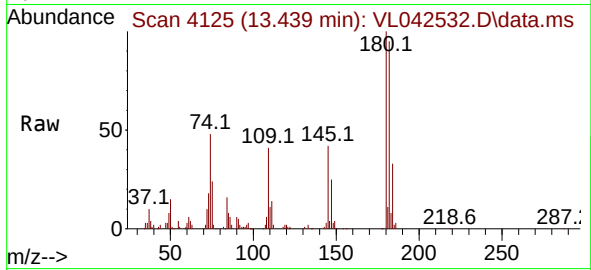
Tgt Ion:	142	Resp:	29203
Ion Ratio	Lower	Upper	
142	100		
141	88.4	66.8	100.2
115	43.9	33.0	49.6





#81
 1,2,4-Trichlorobenzene
 Concen: 2.268 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL042532.D
 Acq: 12 May 2025 12:58

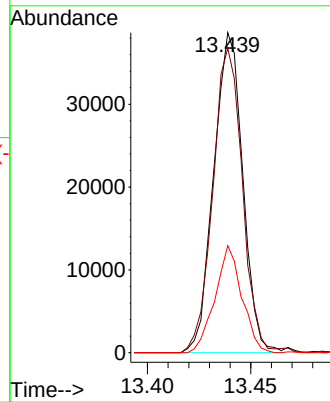
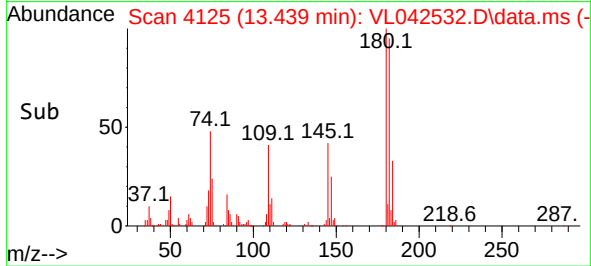
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



Tgt Ion:180 Resp: 3775
 Ion Ratio Lower Upper
 180 100
 182 97.5 76.6 114.8
 184 31.0 24.6 36.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042533.D
 Acq On : 12 May 2025 14:28
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/14/2025
 Supervised By : Mahesh Dadoda 05/14/2025

Quant Time: May 12 23:51:20 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

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

QLast Update : Mon May 12 23:42:45 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	108558	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	309586	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	279828	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 246798 10.136 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.495	85	254959	14.463	ppbv	99
3) Chlorodifluoromethane	1.473	51	266796	14.850	ppbv	98
4) Chloromethane	1.531	50	101130	14.056	ppbv	99
5) Vinyl Chloride	1.576	62	98136	13.331	ppbv	97
6) Bromomethane	1.664	94	50426	14.424	ppbv	98
7) Chloroethane	1.703	64	38860	13.411	ppbv	99
8) Dichlorotetrafluoroethane	1.550	85	214140	14.118	ppbv	98
9) Propene	1.479	41	98085	25.137	ppbv #	1
10) Heptane	4.968	43	272741	18.334	ppbv	98
11) Trichlorofluoromethane	1.874	101	245994	14.507	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.136	101	193238	14.189	ppbv	99
13) Ethanol	1.719	45	11869	11.144	ppbv	99
14) Bromoethene	1.780	108	75429	15.192	ppbv	96
15) Acetone	1.832	43	213564	12.311	ppbv	99
16) 1,3-Butadiene	1.605	39	112792	14.460	ppbv	99
17) tert-Butyl alcohol	2.036	59	230498	14.380	ppbv	99
18) 1,1-Dichloroethene	2.029	96	86943	14.567	ppbv	98
19) Isopropyl Alcohol	1.884	45	132417	14.052	ppbv #	1
20) Methylene Chloride	2.059	84	74621	12.354	ppbv	98
21) Allyl Chloride	2.091	41	172596	15.028	ppbv	100
22) trans-1,2-Dichloroethene	2.337	96	97705	13.994	ppbv	98
23) Vinyl Acetate	2.460	43	285911	15.744	ppbv	97
24) 1,1-Dichloroethane	2.405	63	196043	14.512	ppbv	98
25) Ethyl Acetate	2.832	43	503336	16.525	ppbv	100
26) Hexane	2.819	57	221600	17.721	ppbv	96
27) Carbon Disulfide	2.146	76	244368	15.138	ppbv	99
28) Methyl tert-Butyl Ether	2.437	73	104072	14.980	ppbv	99
29) Chloroform	2.845	83	373949	14.419	ppbv	97
30) Cyclohexane	3.852	84	188093	18.321	ppbv	99
31) cis-1,2-Dichloroethene	2.716	61	231689	16.408	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	393153	15.027	ppbv	99
34) 2-Butanone	2.554	43	326787	16.014	ppbv	99
35) Carbon Tetrachloride	3.758	117	419052	15.056	ppbv	99
36) Benzene	3.651	78	458244	16.702	ppbv	96
37) 1,2-Dichloroethane	3.214	62	296168	15.133	ppbv	99
38) Trichloroethene	4.544	130	190538	16.255	ppbv	99
39) 1,2-Dichloropropane	4.308	63	162049	15.867	ppbv	96
40) 1,4-Dioxane	4.580	88	69978m	17.187	ppbv	
41) Tetrahydrofuran	3.049	42	167734	19.057	ppbv	98
42) Bromodichloromethane	4.483	83	410197	15.734	ppbv	95
43) Methyl Methacrylate	4.874	69	175429	19.145	ppbv	100
44) 2,2,4-Trimethylpentane	4.632	57	753360	17.485	ppbv	99
45) t-1,3-Dichloropropene	6.409	75	225163	19.247	ppbv	93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042533.D
 Acq On : 12 May 2025 14:28
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

Quant Time: May 12 23:51:20 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

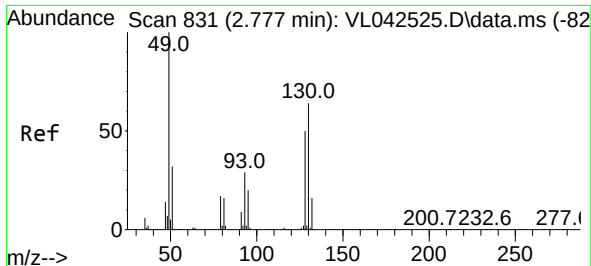
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Mon May 12 23:42:45 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	267742	18.975	ppbv	96
47) 1,1,2-Trichloroethane	6.574	97	183088	15.225	ppbv	96
48) Dibromochloromethane	7.383	129	334374	16.641	ppbv	98
49) Bromoform	9.480	173	279015	16.922	ppbv	99
50) 4-Methyl-2-Pentanone	5.745	43	445638	18.621	ppbv	100
51) 2-Hexanone	7.431	43	367397	20.654	ppbv #	97
52) Tetrachloroethene	8.221	164	165300	15.639	ppbv	93
53) Toluene	6.927	91	522877	19.420	ppbv	100
54) 1,2-Dibromoethane	7.648	107	290801	16.547	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.920	131	253110	14.589	ppbv	98
57) Chlorobenzene	8.917	112	423059	15.057	ppbv	99
58) Ethyl Benzene	9.351	91	757160	19.852	ppbv	95
59) m/p-Xylene	9.548	91	1251252m	36.878	ppbv	
60) o-Xylene	9.962	91	618234	18.698	ppbv	99
61) Styrene	9.869	104	269609	22.137	ppbv	97
62) Isopropylbenzene	10.535	105	902388	18.112	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	380582	14.351	ppbv	99
64) n-propylbenzene	10.985	120	230244	18.238	ppbv	99
65) tert-Butylbenzene	11.529	119	827491	18.087	ppbv	100
66) Benzyl Chloride	11.613	91	106741	17.633	ppbv #	98
67) sec-Butylbenzene	11.765	105	1120950	17.089	ppbv	99
69) p-Isopropyltoluene	11.924	119	983988	18.247	ppbv	99
70) n-Butylbenzene	12.280	91	974868	18.295	ppbv	100
71) 2-Chlorotoluene	10.898	91	703053	18.636	ppbv	99
72) 4-Ethyltoluene	11.124	105	777799	18.954	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	654009	18.296	ppbv	97
74) 1,2,4-Trimethylbenzene	11.535	105	725454	16.496	ppbv	98
75) 1,3-Dichlorobenzene	11.607	146	432126	15.690	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	429425	16.387	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	412453	14.497	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	339749	13.928	ppbv	100
79) Naphthalene	13.510	128	708419	23.333	ppbv	98
80) Naphthalene,2-methyl-	14.455	142	506723	28.683	ppbv	99
81) 1,2,4-Trichlorobenzene	13.439	180	368964	19.904	ppbv	100

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



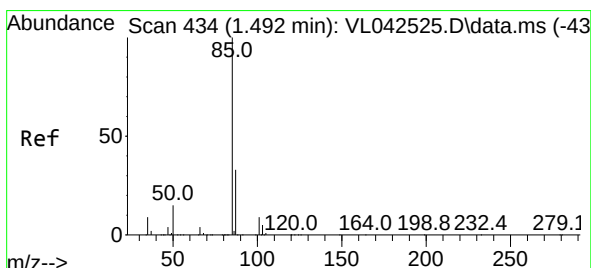
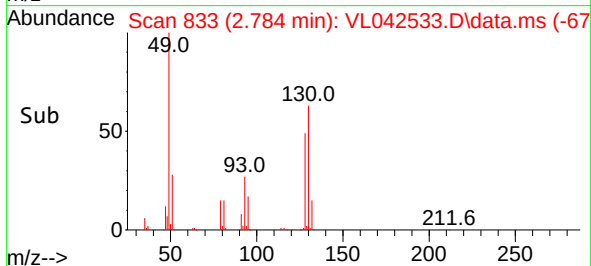
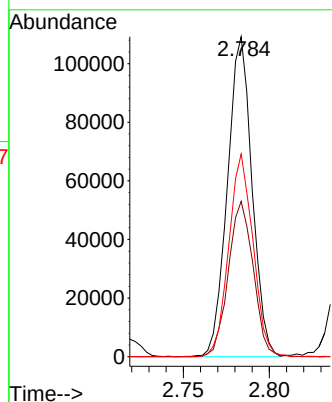
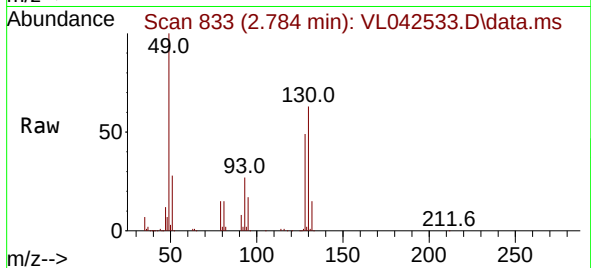
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 811
Delta R.T. 0.007 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 49 Resp: 108558
Ion Ratio Lower Upper
49 100
128 49.0 24.9 74.6
130 62.4 32.5 97.5

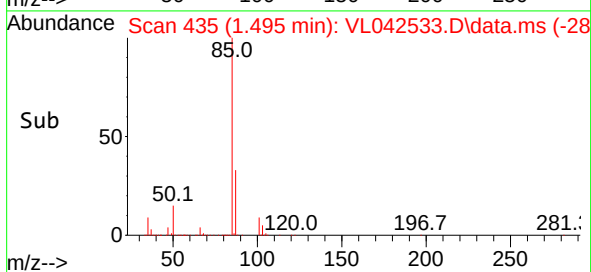
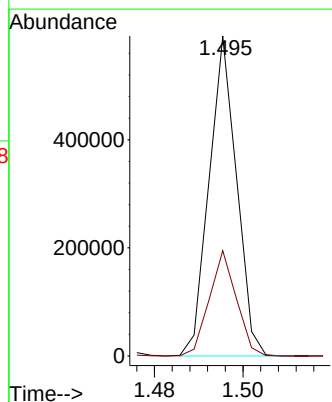
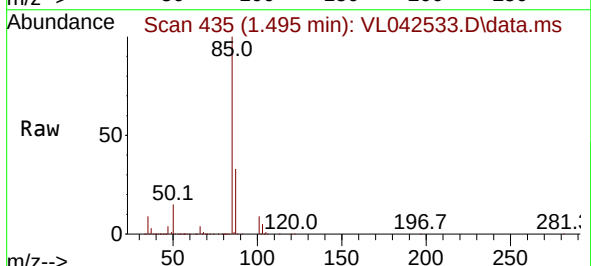
Manual Integrations
APPROVED

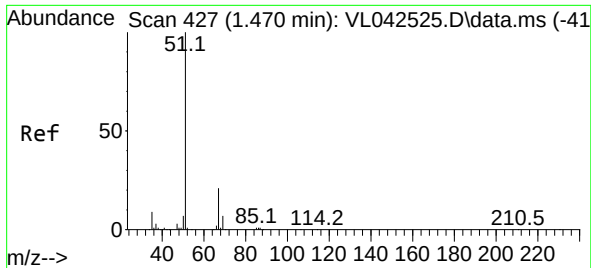
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#2
Dichlorodifluoromethane
Concen: 14.463 ppbv
RT: 1.495 min Scan# 435
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion: 85 Resp: 254959
Ion Ratio Lower Upper
85 100
87 32.9 26.8 40.2





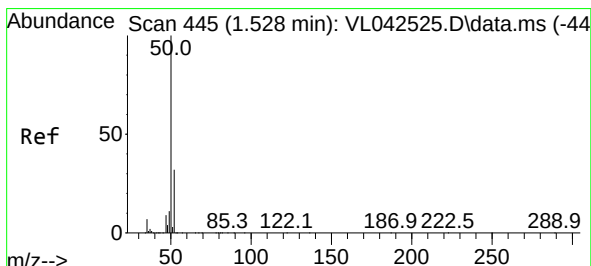
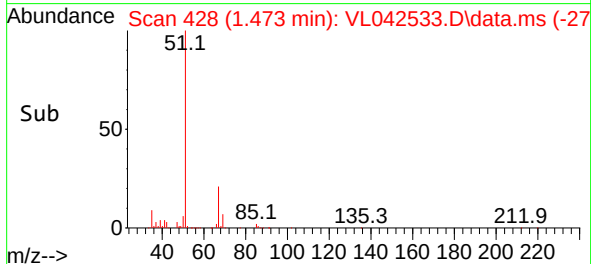
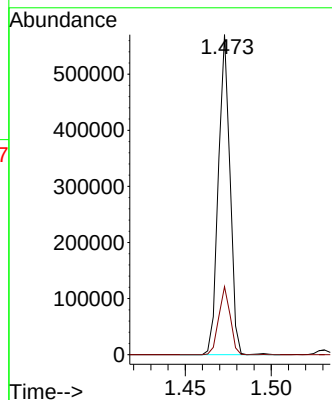
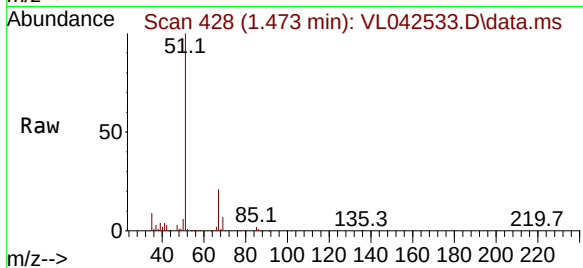
#3
Chlorodifluoromethane
Concen: 14.850 ppbv
RT: 1.473 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 51 Resp: 266790
Ion Ratio Lower Upper
51 100
67 21.0 17.4 26.0

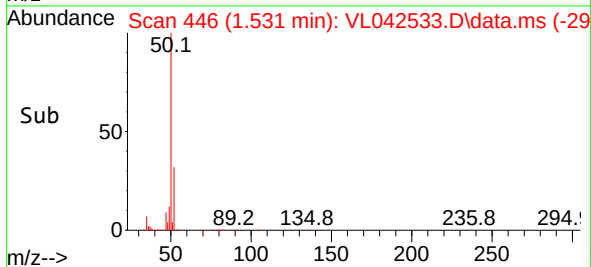
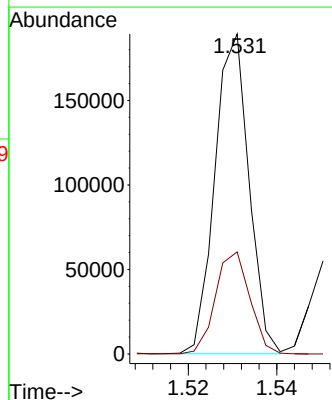
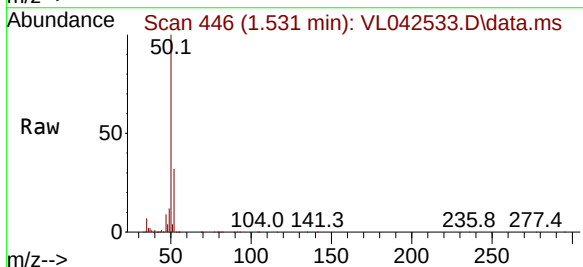
Manual Integrations
APPROVED

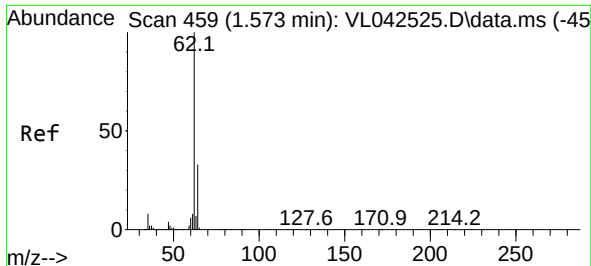
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#4
Chloromethane
Concen: 14.056 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion: 50 Resp: 101130
Ion Ratio Lower Upper
50 100
52 31.9 25.9 38.9





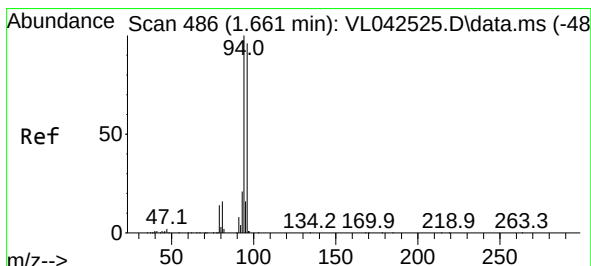
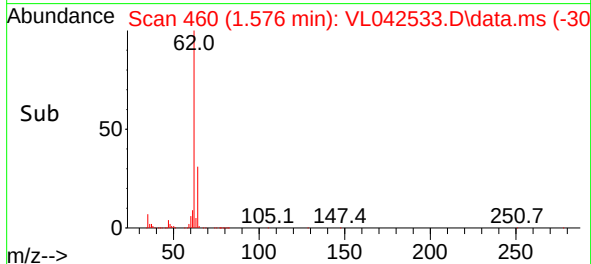
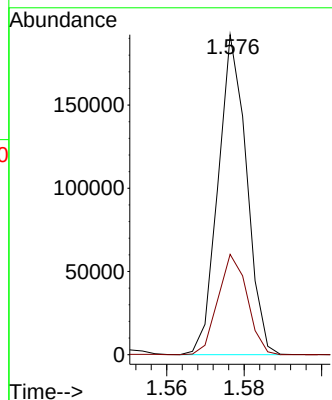
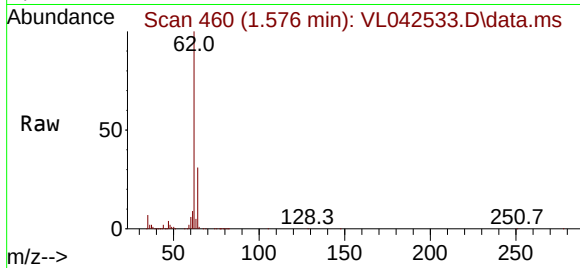
#5
 Vinyl Chloride
 Concen: 13.331 ppbv
 RT: 1.576 min Scan# 459
 Delta R.T. 0.003 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 62 Resp: 98130
 Ion Ratio Lower Upper
 62 100
 64 31.4 26.5 39.7

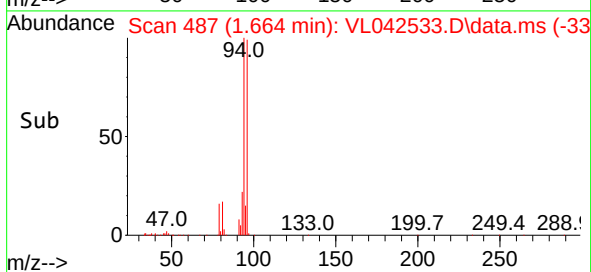
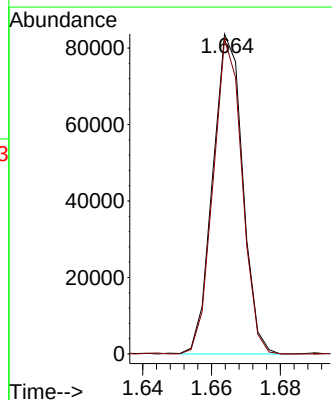
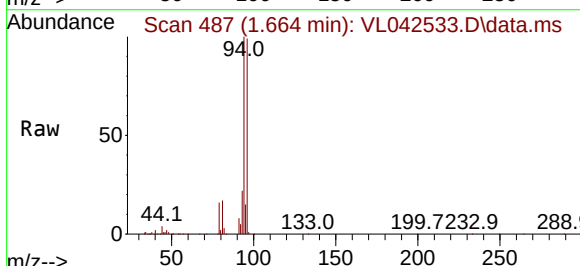
Manual Integrations
 APPROVED

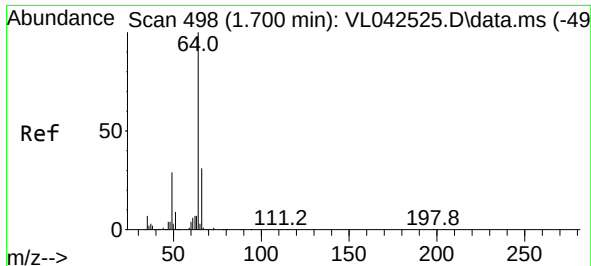
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#6
 Bromomethane
 Concen: 14.424 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. 0.003 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

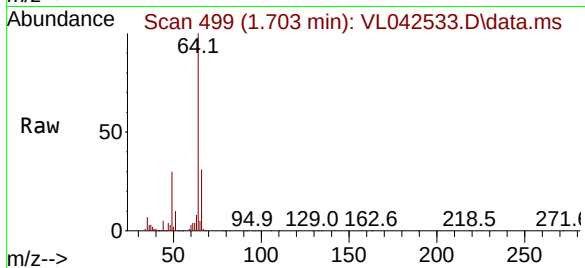
Tgt Ion: 94 Resp: 50426
 Ion Ratio Lower Upper
 94 100
 96 98.5 76.9 115.3





#7
Chloroethane
Concen: 13.411 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

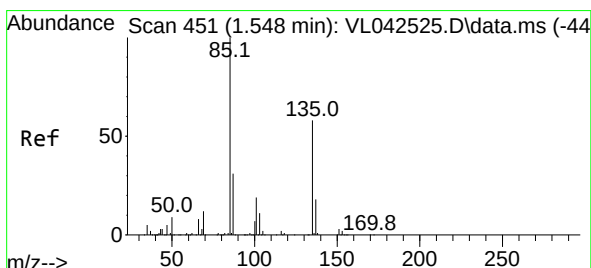
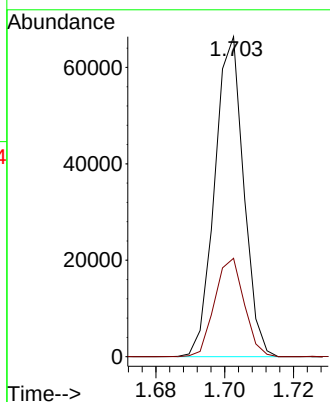
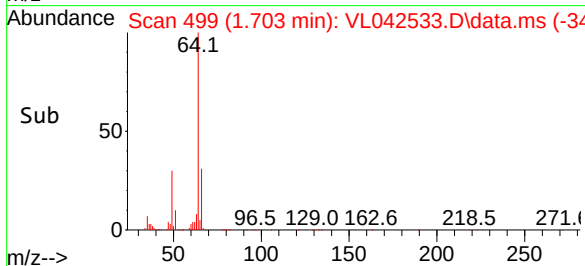
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 64 Resp: 38860
Ion Ratio Lower Upper
64 100
66 30.7 25.1 37.7

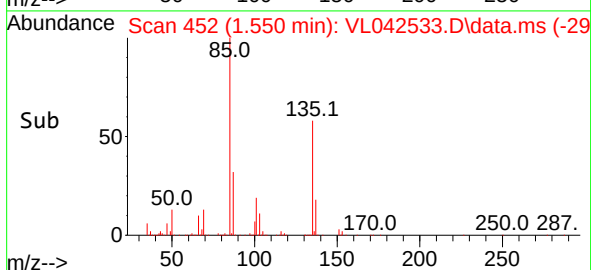
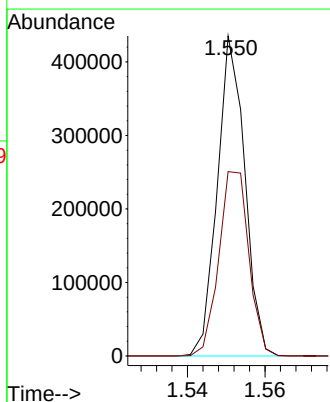
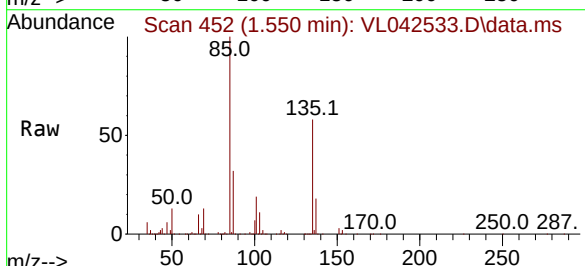
Manual Integrations
APPROVED

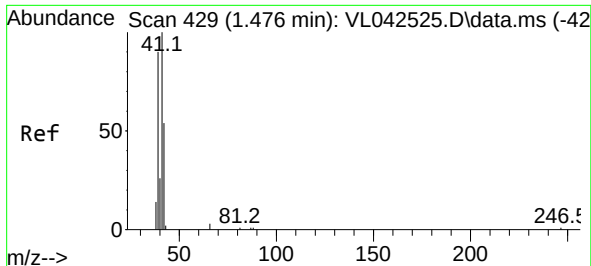
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#8
Dichlorotetrafluoroethane
Concen: 14.118 ppbv
RT: 1.550 min Scan# 452
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion: 85 Resp: 214140
Ion Ratio Lower Upper
85 100
135 63.4 51.8 77.8





#9

Propene

Concen: 25.137 ppbv

RT: 1.479 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion: 41 Resp: 9808

Ion Ratio Lower Upper

41 100

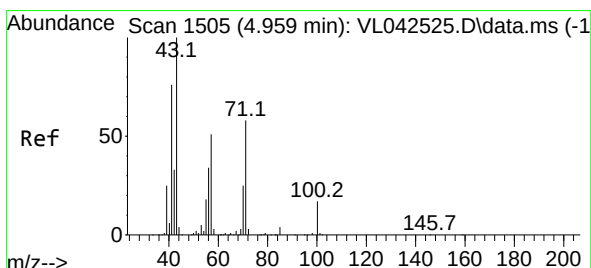
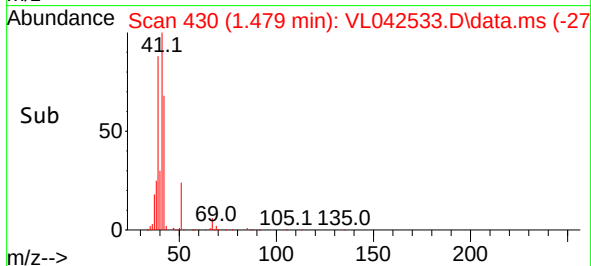
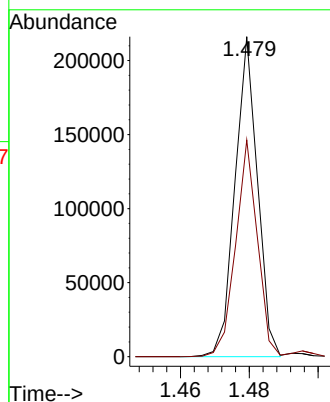
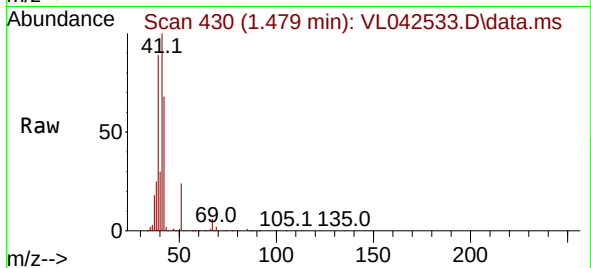
42 67.7 4.1 6.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#10

Heptane

Concen: 18.334 ppbv

RT: 4.968 min Scan# 1508

Delta R.T. 0.009 min

Lab File: VL042533.D

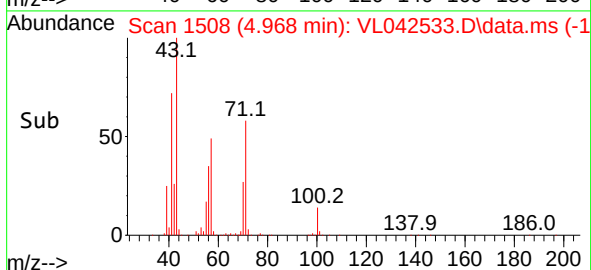
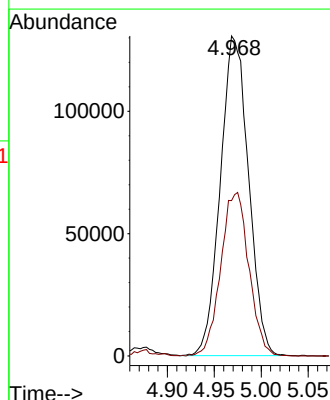
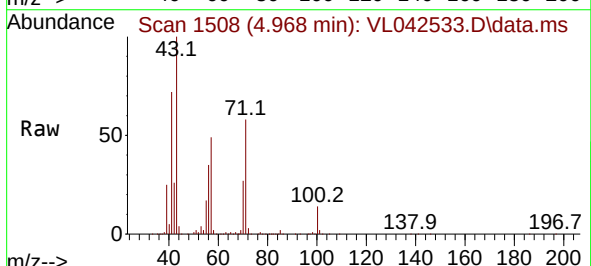
Acq: 12 May 2025 14:28

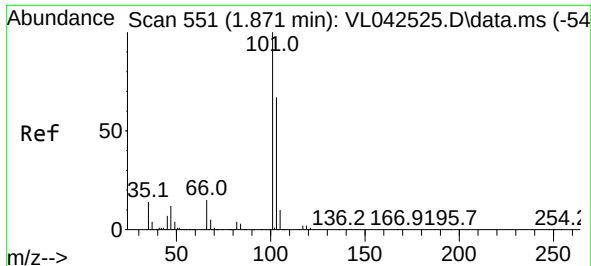
Tgt Ion: 43 Resp: 272741

Ion Ratio Lower Upper

43 100

57 51.1 42.1 63.1





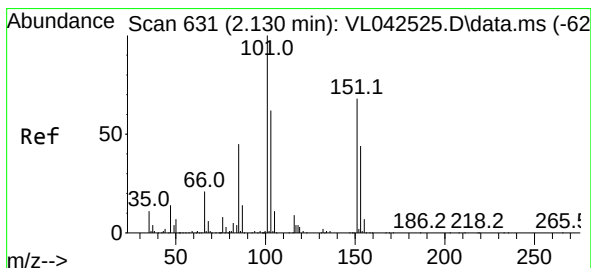
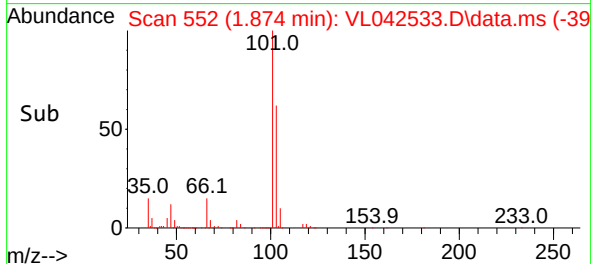
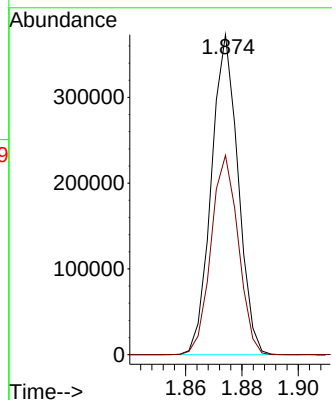
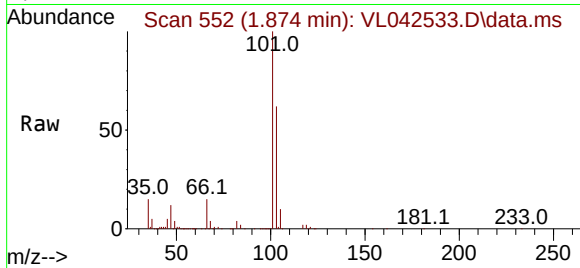
#11
 Trichlorofluoromethane
 Concen: 14.507 ppbv
 RT: 1.874 min Scan# 51
 Delta R.T. 0.003 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion:101 Resp: 245994
 Ion Ratio Lower Upper
 101 100
 103 62.3 53.8 80.6

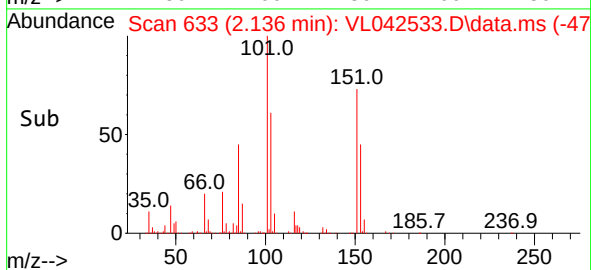
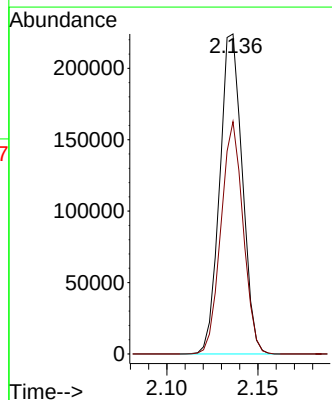
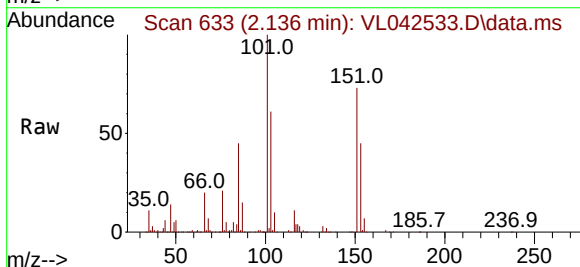
Manual Integrations
 APPROVED

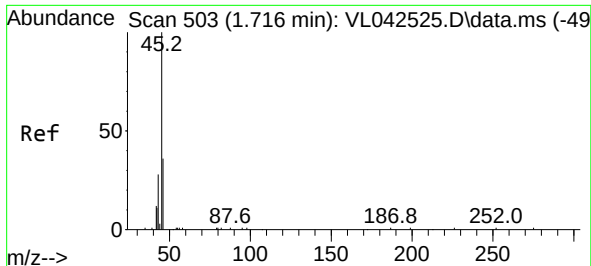
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 14.189 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. 0.006 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

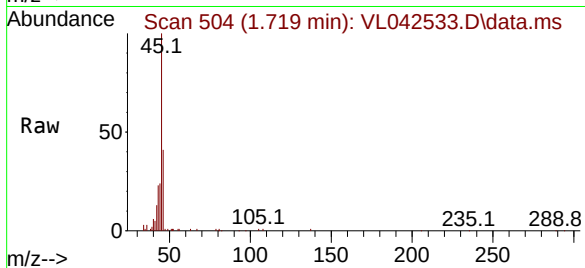
Tgt Ion:101 Resp: 193238
 Ion Ratio Lower Upper
 101 100
 151 71.1 57.8 86.8





#13
Ethanol
Concen: 11.144 ppbv
RT: 1.719 min Scan# 503
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

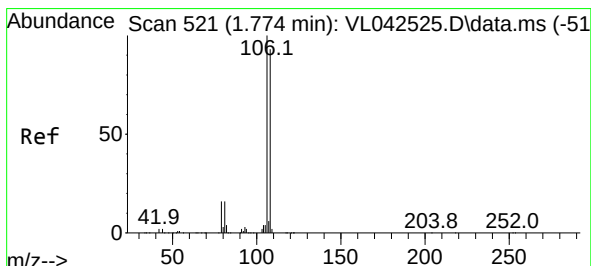
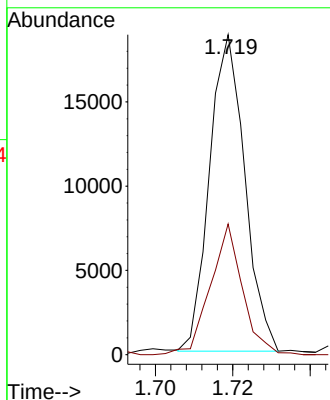
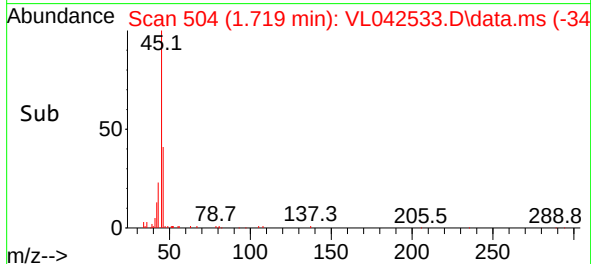
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



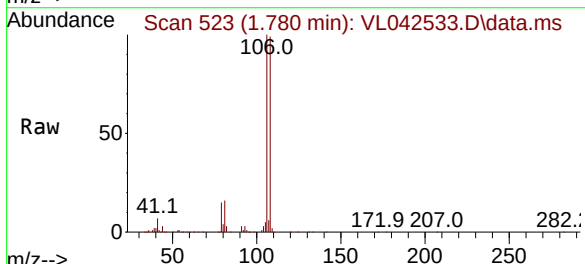
Tgt Ion: 45 Resp: 11869
Ion Ratio Lower Upper
45 100
46 37.6 14.8 59.4

Manual Integrations
APPROVED

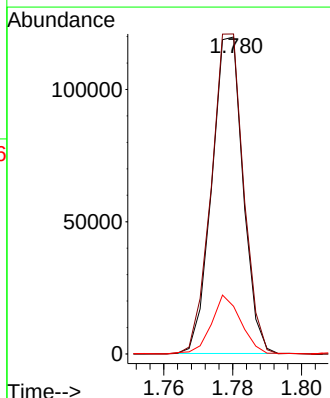
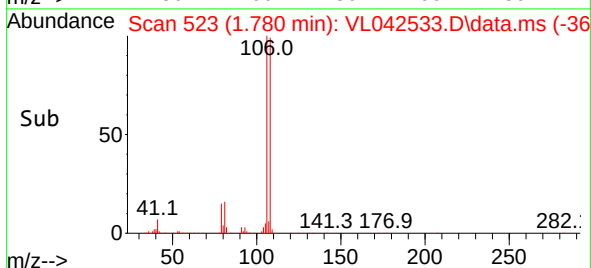
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

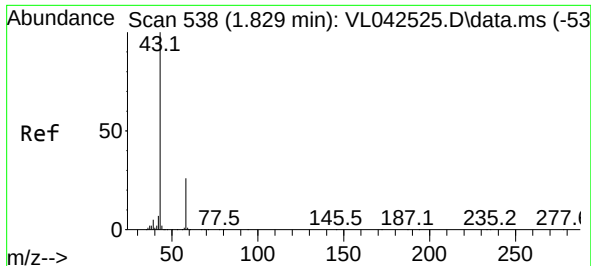


#14
Bromoethene
Concen: 15.192 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28



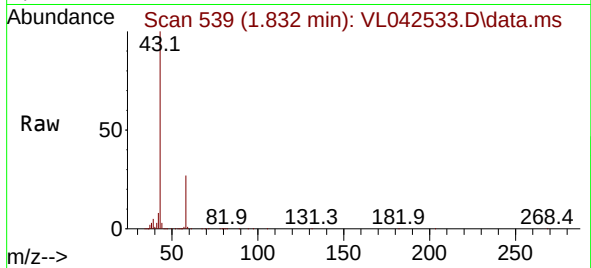
Tgt Ion:108 Resp: 75429
Ion Ratio Lower Upper
108 100
106 104.0 87.4 131.2
79 18.7 15.1 22.7





#15
Acetone
Concen: 12.311 ppbv
RT: 1.832 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

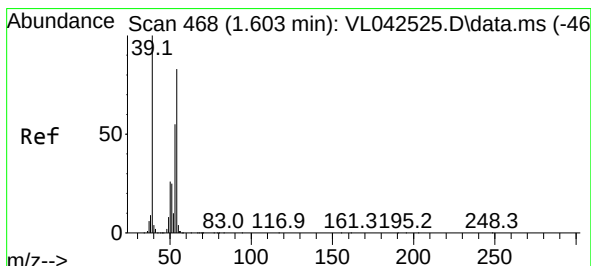
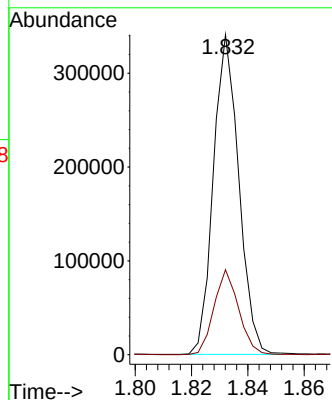
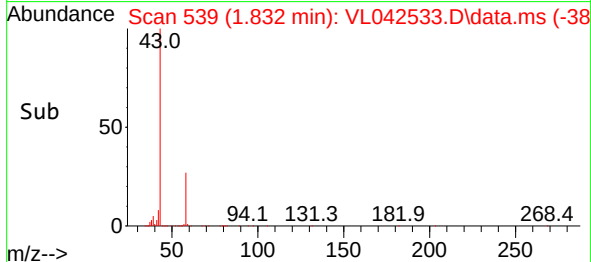
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



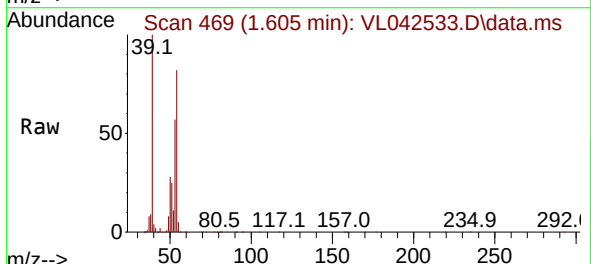
Tgt Ion: 43 Resp: 213564
Ion Ratio Lower Upper
43 100
58 26.0 21.3 31.9

Manual Integrations
APPROVED

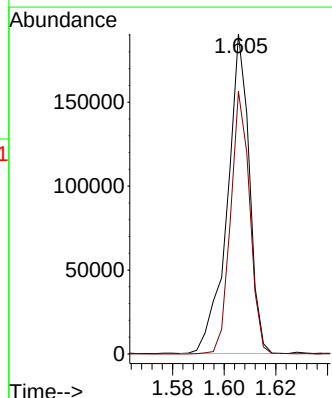
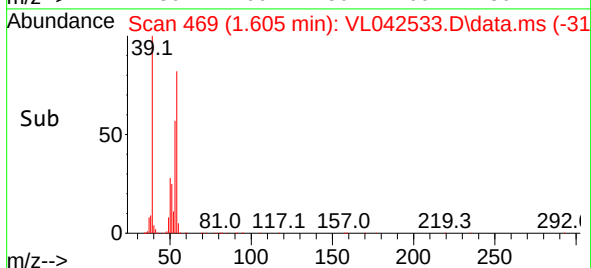
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

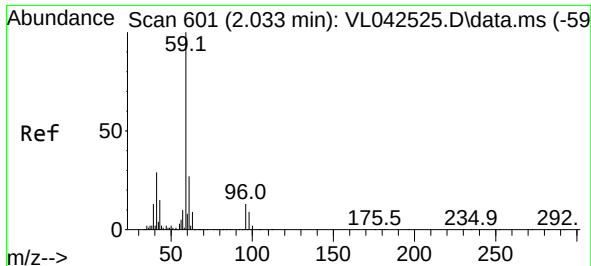


#16
1,3-Butadiene
Concen: 14.460 ppbv
RT: 1.605 min Scan# 469
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28



Tgt Ion: 39 Resp: 112792
Ion Ratio Lower Upper
39 100
54 71.3 57.8 86.6





#17

tert-Butyl alcohol

Concen: 14.380 ppbv

RT: 2.036 min Scan# 601

Delta R.T. 0.003 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 59 Resp: 230498

Ion Ratio Lower Upper

59 100

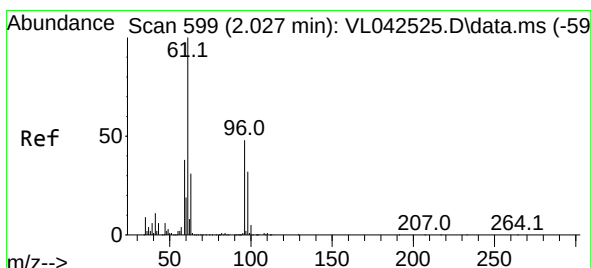
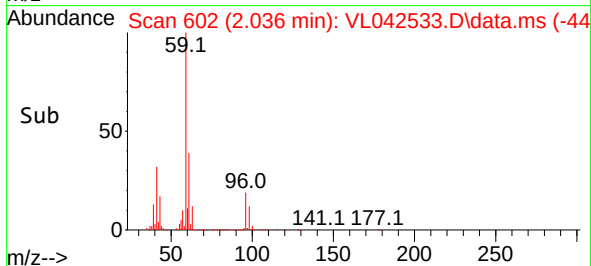
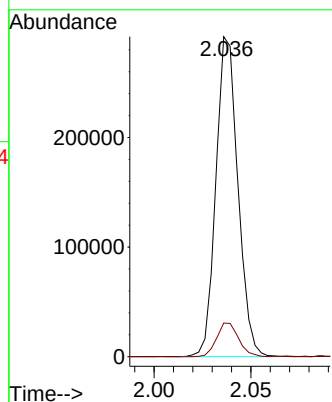
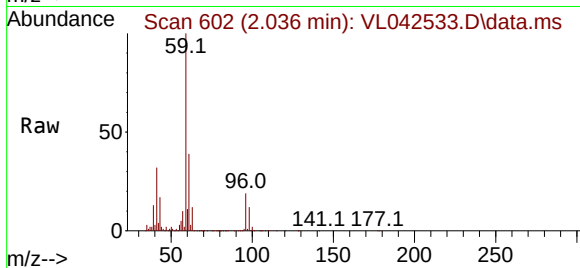
57 10.7 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#18

1,1-Dichloroethene

Concen: 14.567 ppbv

RT: 2.029 min Scan# 600

Delta R.T. 0.003 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

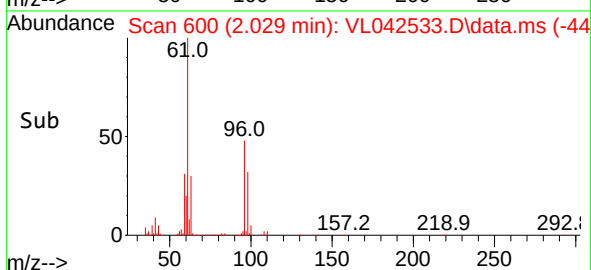
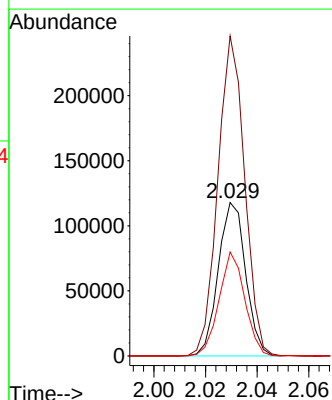
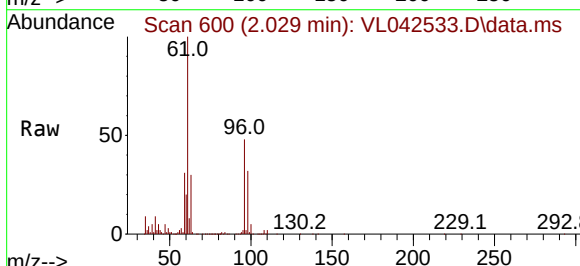
Tgt Ion: 96 Resp: 86943

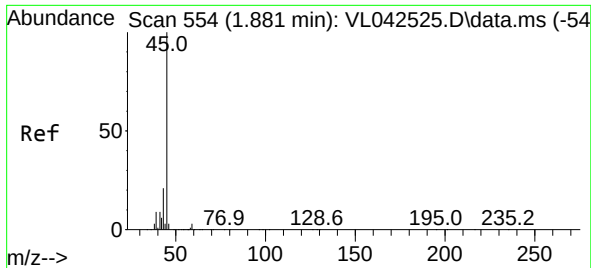
Ion Ratio Lower Upper

96 100

61 208.5 165.0 247.4

98 67.7 52.6 79.0





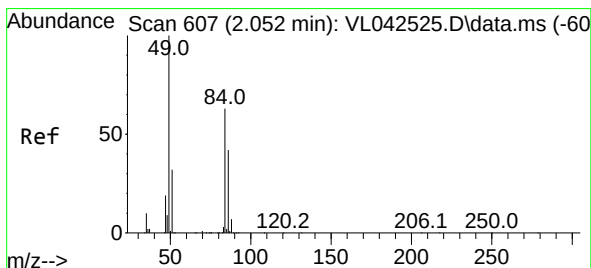
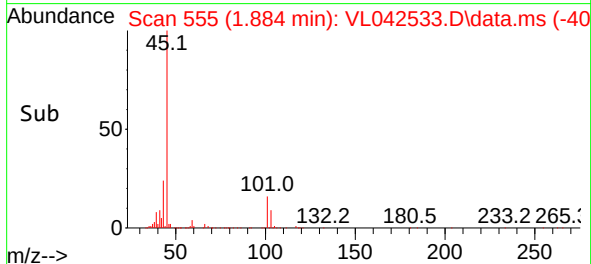
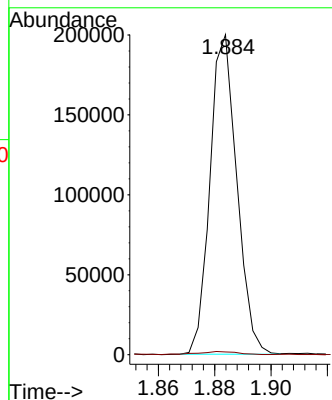
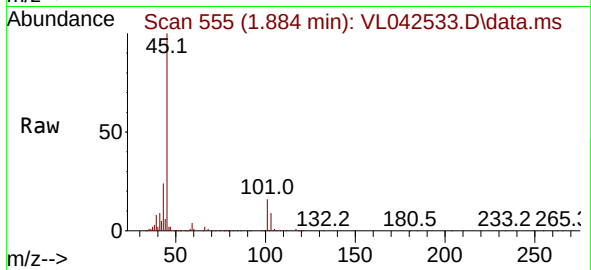
#19
Isopropyl Alcohol
Concen: 14.052 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 45 Resp: 132417
Ion Ratio Lower Upper
45 100
58 41.9 1.5 2.3

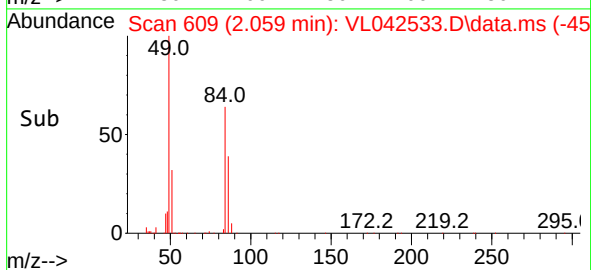
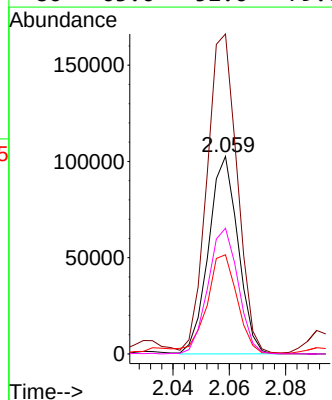
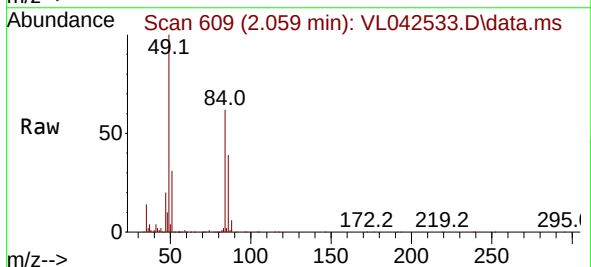
Manual Integrations
APPROVED

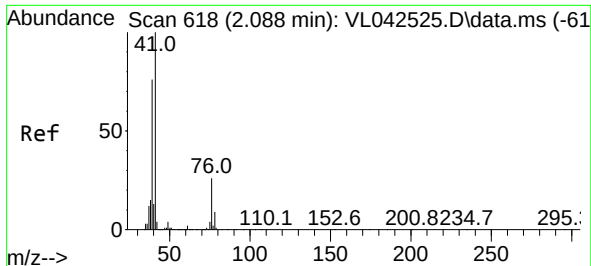
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#20
Methylene Chloride
Concen: 12.354 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

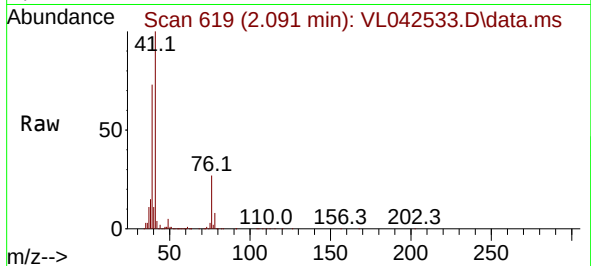
Tgt Ion: 84 Resp: 74621
Ion Ratio Lower Upper
84 100
49 161.6 128.2 192.4
51 49.9 41.7 62.5
86 63.6 52.6 79.0





#21
 Allyl Chloride
 Concen: 15.028 ppbv
 RT: 2.091 min Scan# 618
 Delta R.T. 0.003 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

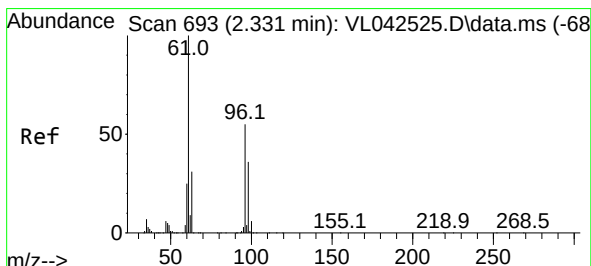
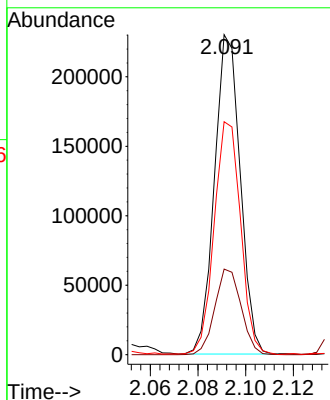
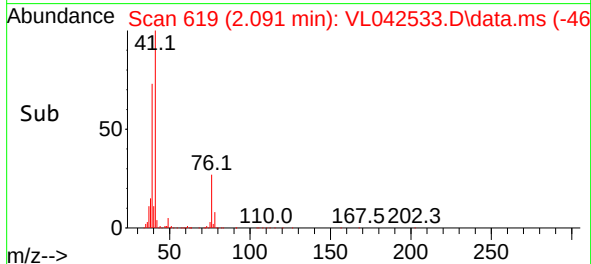
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion: 41 Resp: 172590
 Ion Ratio Lower Upper
 41 100
 76 27.4 22.0 33.0
 39 74.2 59.5 89.3

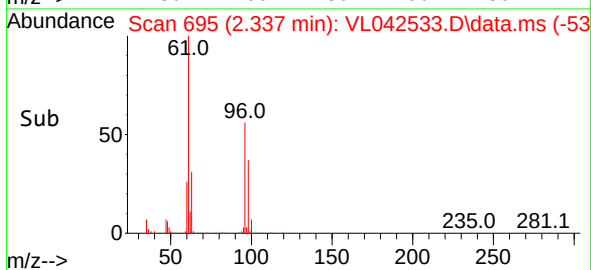
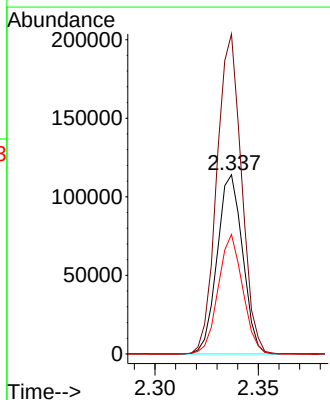
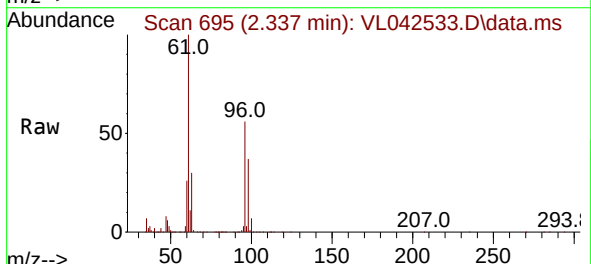
Manual Integrations
 APPROVED

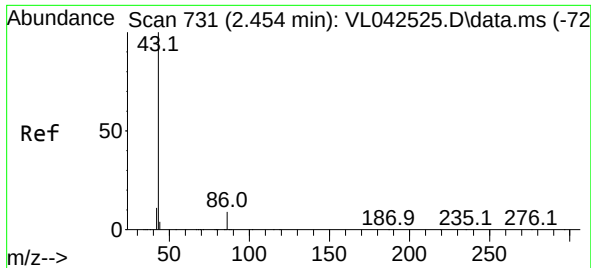
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#22
 trans-1,2-Dichloroethene
 Concen: 13.994 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. 0.006 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

Tgt Ion: 96 Resp: 97705
 Ion Ratio Lower Upper
 96 100
 61 178.5 145.9 218.9
 98 66.7 52.2 78.4





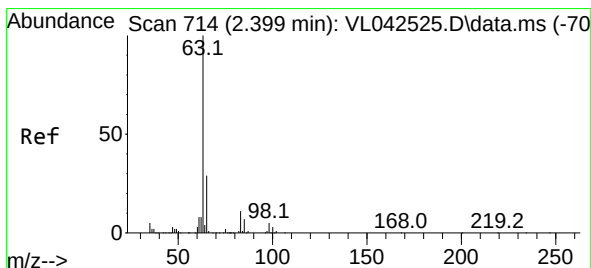
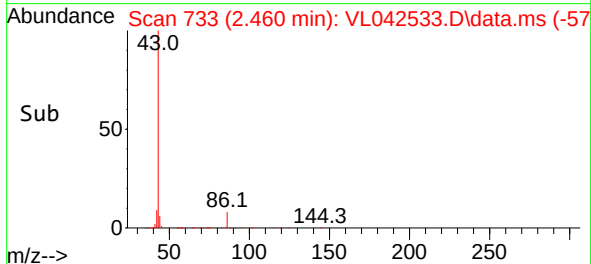
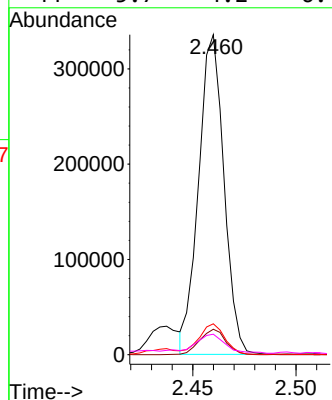
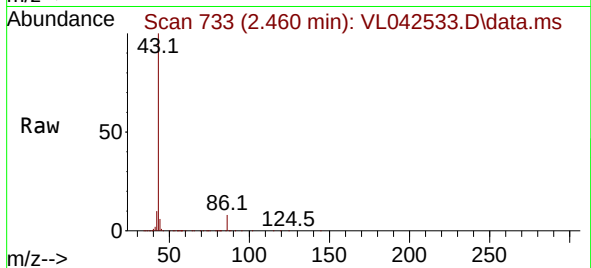
#23
 Vinyl Acetate
 Concen: 15.744 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. 0.006 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

Tgt Ion: 43 Resp: 28591
 Ion Ratio Lower Upper
 43 100
 86 8.0 6.8 10.2
 42 9.5 8.8 13.2
 44 5.7 4.2 6.4

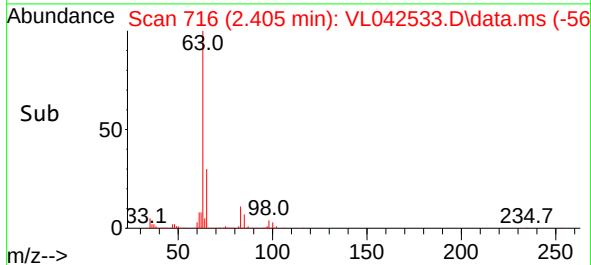
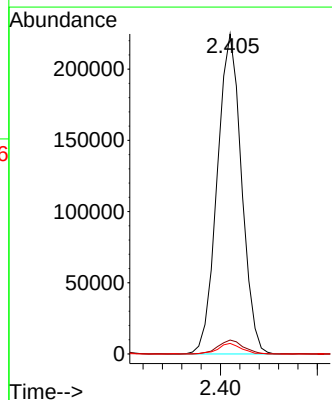
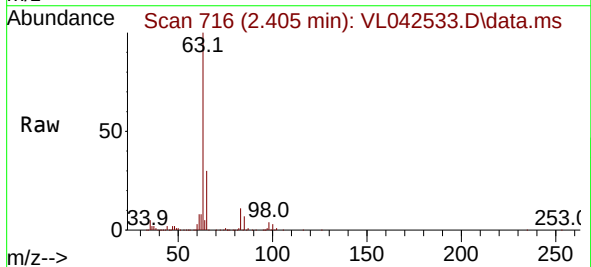
Manual Integrations
 APPROVED

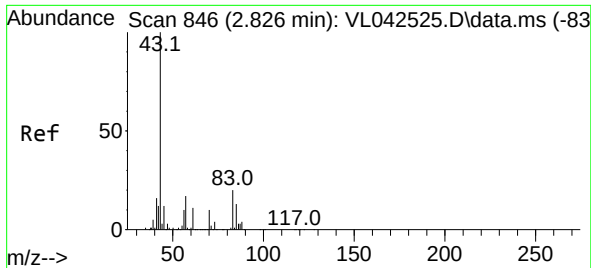
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#24
 1,1-Dichloroethane
 Concen: 14.512 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. 0.006 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

Tgt Ion: 63 Resp: 196043
 Ion Ratio Lower Upper
 63 100
 98 4.4 2.6 8.0
 100 3.3 1.4 4.2





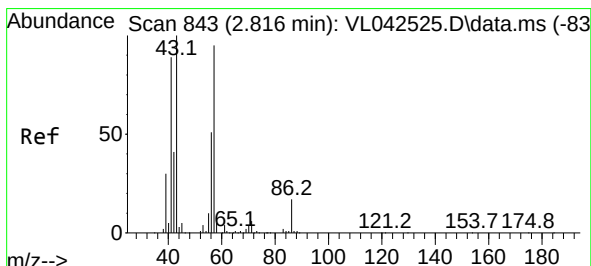
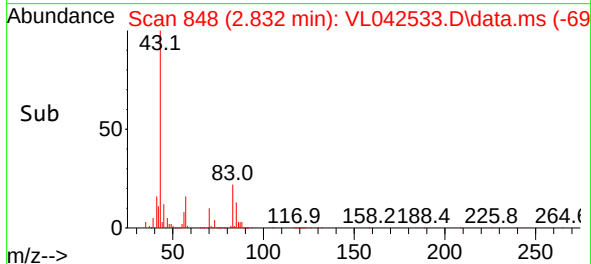
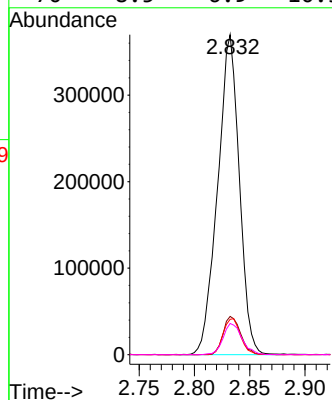
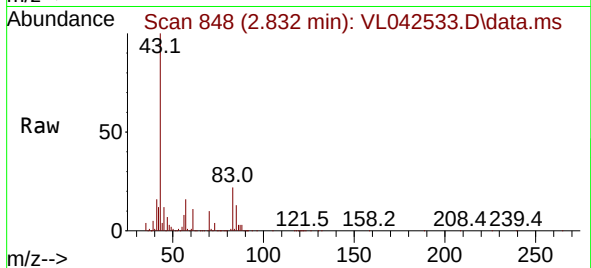
#25
Ethyl Acetate
Concen: 16.525 ppbv
RT: 2.832 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 43 Resp: 503330
Ion Ratio Lower Upper
43 100
45 9.8 7.9 11.9
61 9.1 7.1 10.7
70 8.5 6.9 10.3

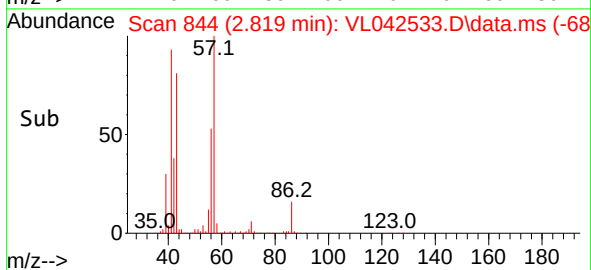
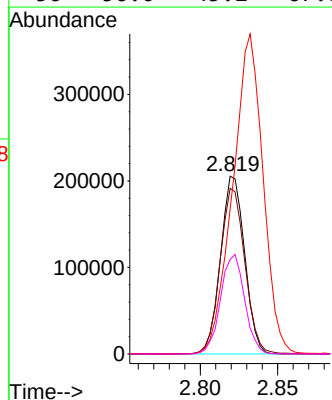
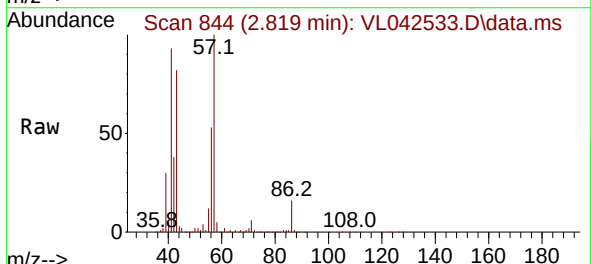
Manual Integrations
APPROVED

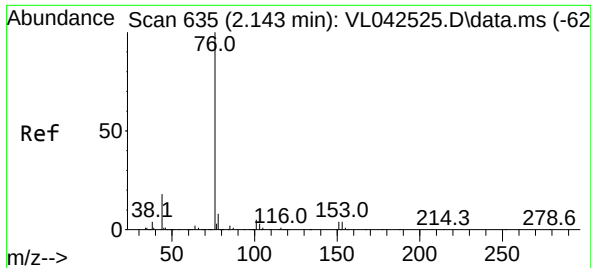
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#26
Hexane
Concen: 17.721 ppbv
RT: 2.819 min Scan# 844
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion: 57 Resp: 221600
Ion Ratio Lower Upper
57 100
41 96.6 76.1 114.1
43 227.5 188.9 283.3
56 56.0 45.2 67.8





#27

Carbon Disulfide

Concen: 15.138 ppbv

RT: 2.146 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 76 Resp: 244368

Ion Ratio Lower Upper

76 100

44 21.3 17.1 25.7

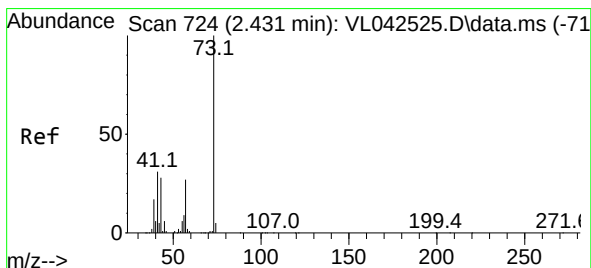
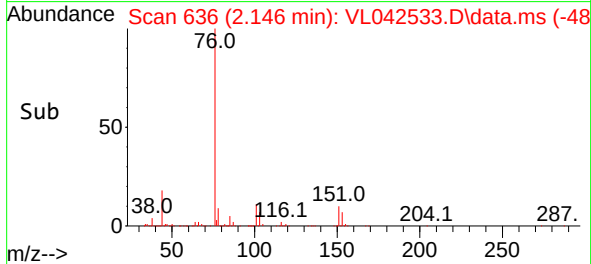
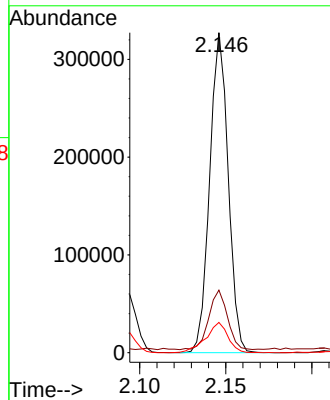
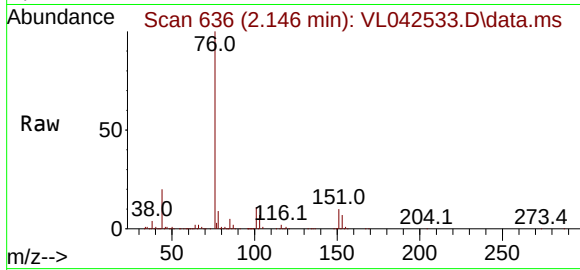
78 11.3 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#28

Methyl tert-Butyl Ether

Concen: 14.980 ppbv

RT: 2.437 min Scan# 726

Delta R.T. 0.006 min

Lab File: VL042533.D

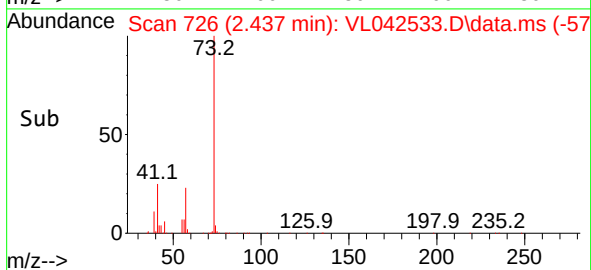
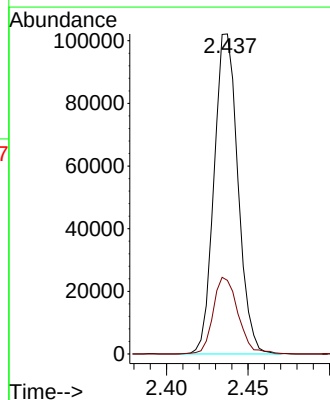
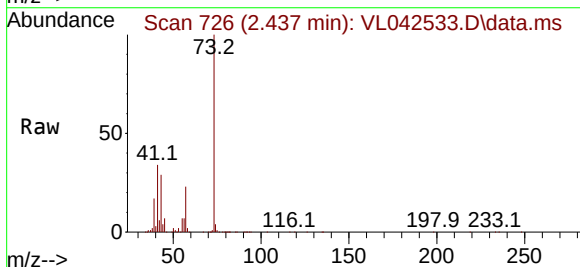
Acq: 12 May 2025 14:28

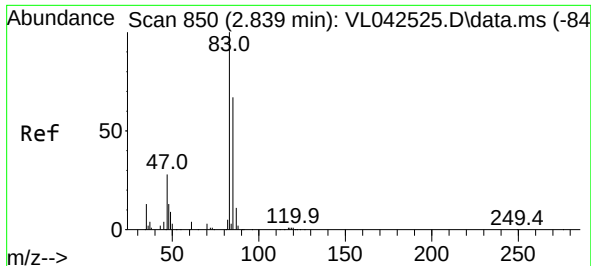
Tgt Ion: 73 Resp: 104072

Ion Ratio Lower Upper

73 100

57 25.1 20.3 30.5





#29

Chloroform

Concen: 14.419 ppbv

RT: 2.845 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion: 83 Resp: 373949

Ion Ratio Lower Upper

83 100

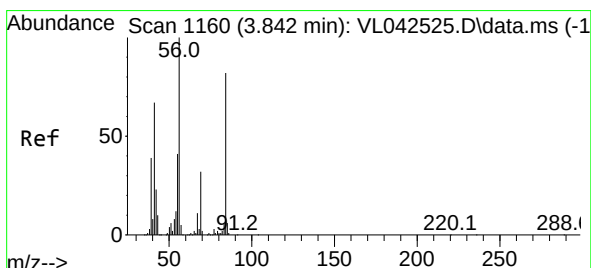
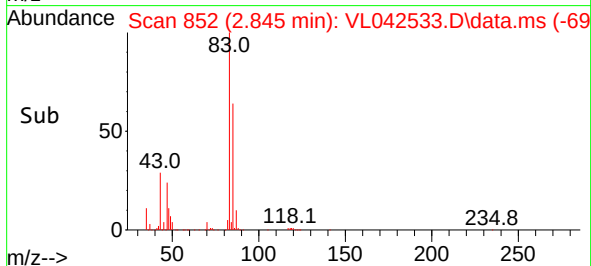
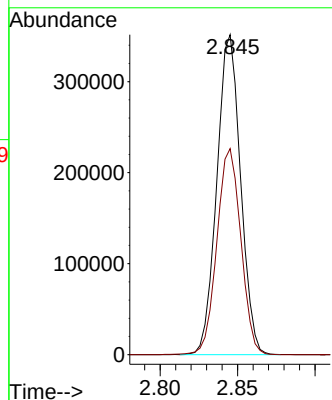
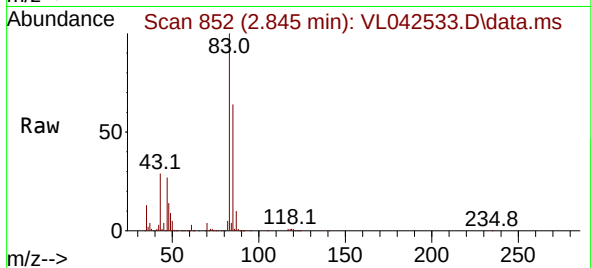
85 64.4 53.5 80.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#30

Cyclohexane

Concen: 18.321 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. 0.009 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

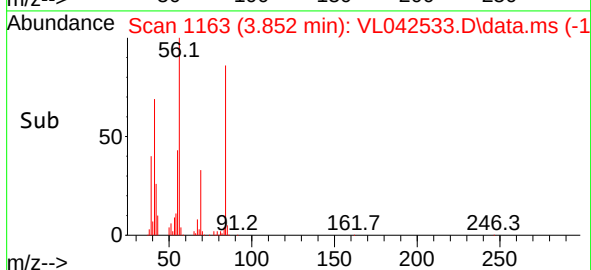
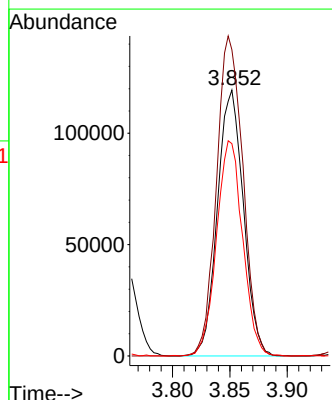
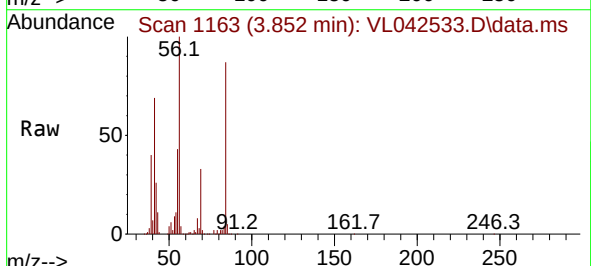
Tgt Ion: 84 Resp: 188093

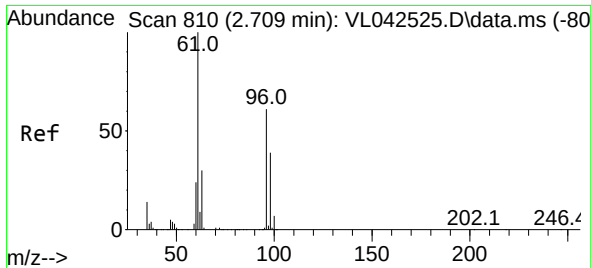
Ion Ratio Lower Upper

84 100

56 122.2 97.1 145.7

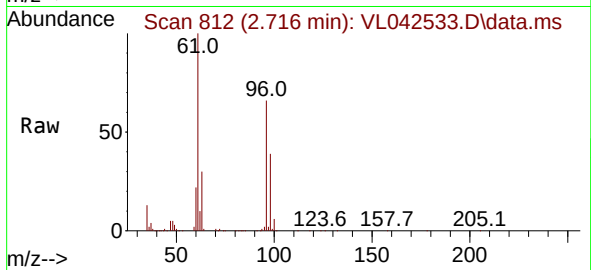
41 81.4 66.6 99.8





#31
 cis-1,2-Dichloroethene
 Concen: 16.408 ppbv
 RT: 2.716 min Scan# 810
 Delta R.T. 0.006 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

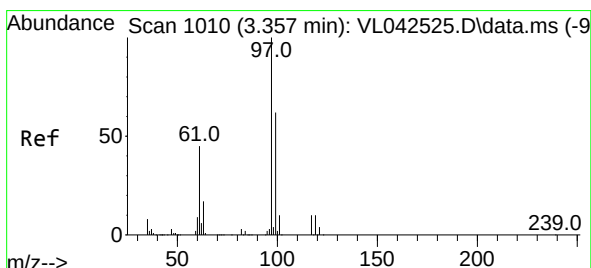
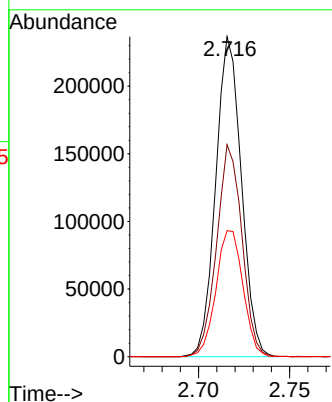
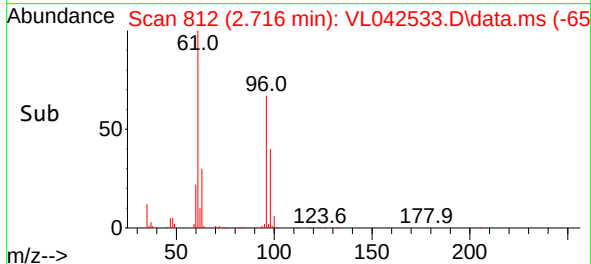
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



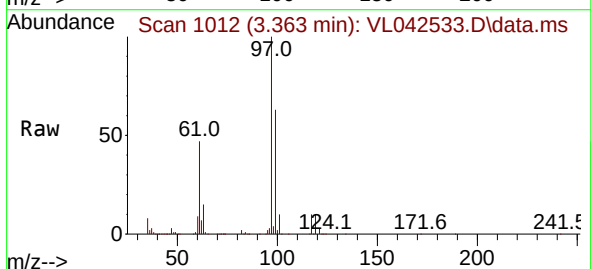
Tgt Ion: 61 Resp: 231689
 Ion Ratio Lower Upper
 61 100
 96 66.2 48.9 73.3
 98 39.4 31.4 47.2

Manual Integrations
 APPROVED

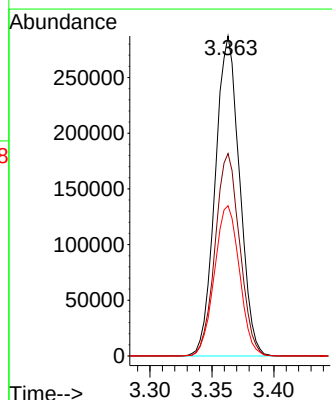
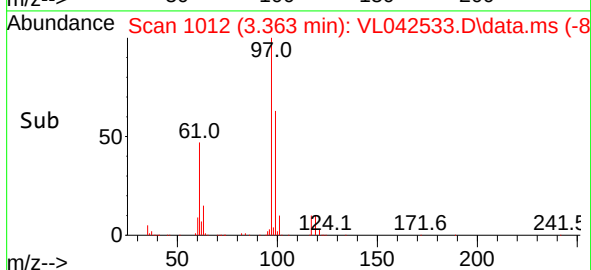
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

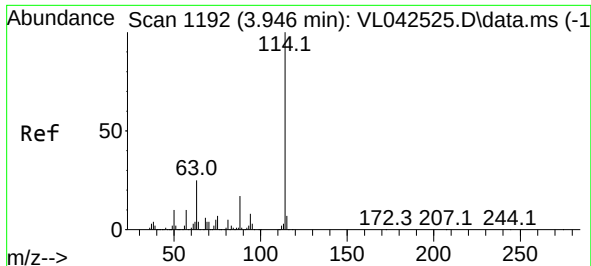


#32
 1,1,1-Trichloroethane
 Concen: 15.027 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. 0.006 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28



Tgt Ion: 97 Resp: 393153
 Ion Ratio Lower Upper
 97 100
 99 63.8 50.1 75.1
 61 48.3 38.2 57.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. 0.006 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

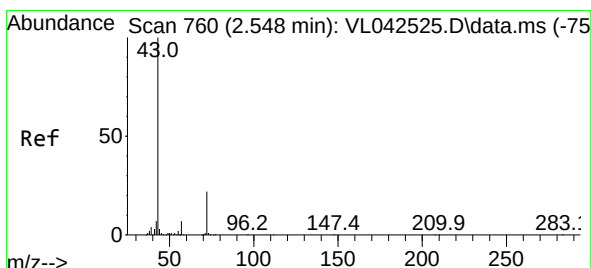
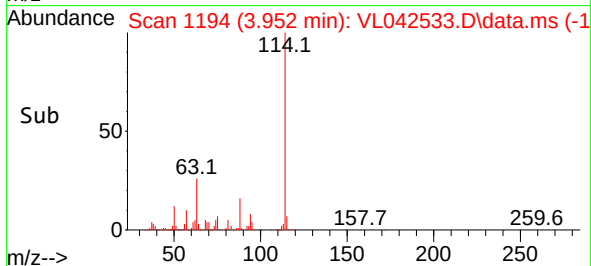
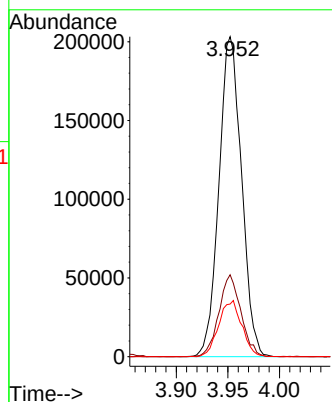
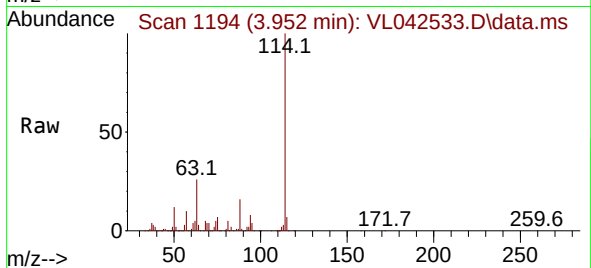
VSTDIC015

Tgt Ion:	114	Resp:	309580
Ion Ratio	Lower	Upper	
114	100		
63	25.0	20.4	30.6
88	17.9	14.5	21.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#34

2-Butanone

Concen: 16.014 ppbv

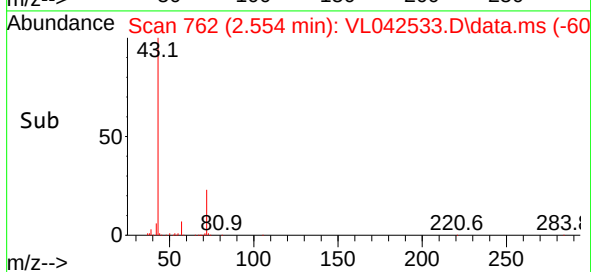
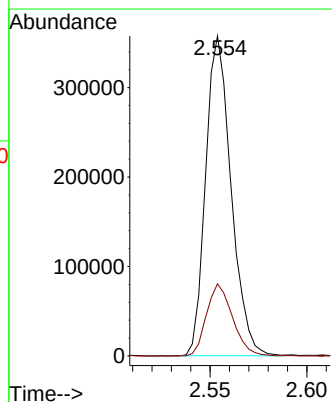
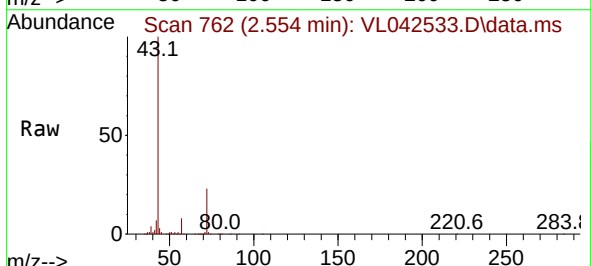
RT: 2.554 min Scan# 762

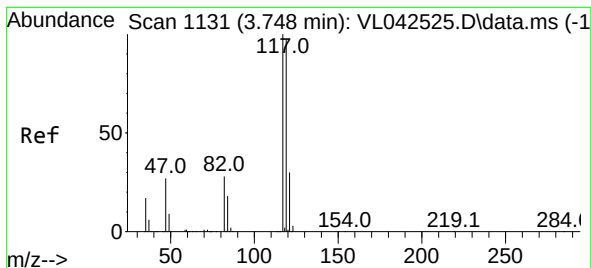
Delta R.T. 0.006 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Tgt Ion:	43	Resp:	326787
Ion Ratio	Lower	Upper	
43	100		
72	23.1	18.7	28.1





#35

Carbon Tetrachloride

Concen: 15.056 ppbv

RT: 3.758 min Scan# 1101

Delta R.T. 0.009 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

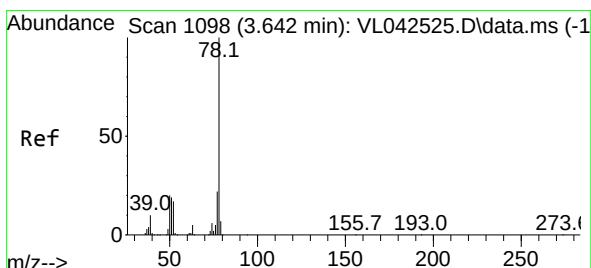
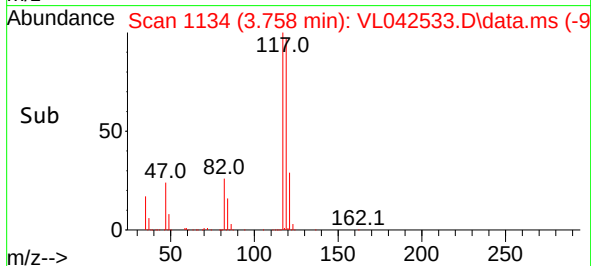
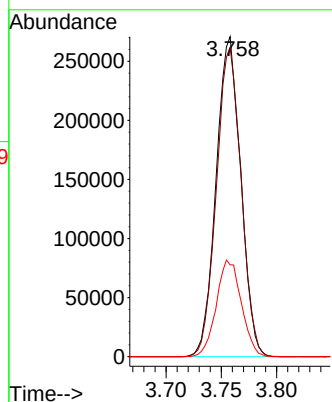
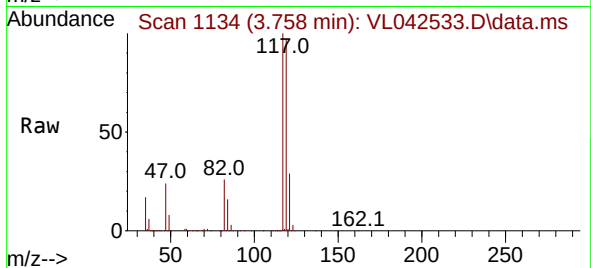
Tgt Ion: 117 Resp: 419052

Ion	Ratio	Lower	Upper
117	100		
119	96.6	77.7	116.5
121	28.7	24.0	36.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#36

Benzene

Concen: 16.702 ppbv

RT: 3.651 min Scan# 1101

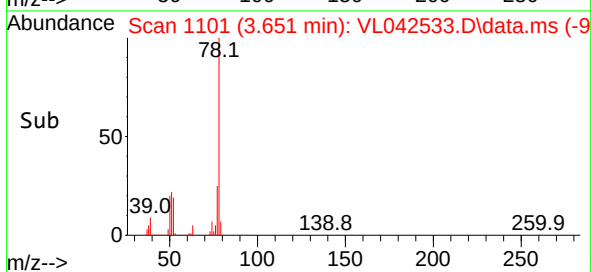
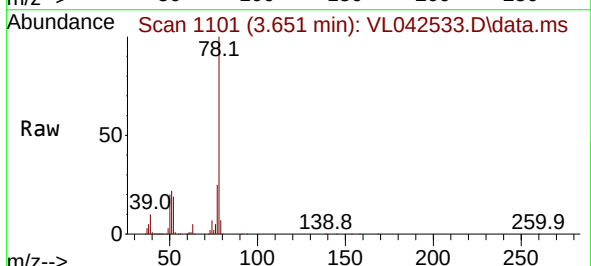
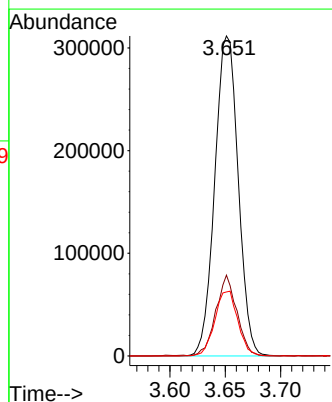
Delta R.T. 0.009 min

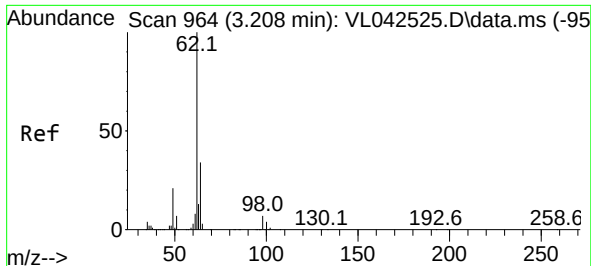
Lab File: VL042533.D

Acq: 12 May 2025 14:28

Tgt Ion: 78 Resp: 458244

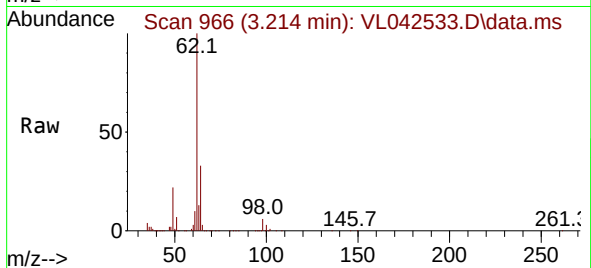
Ion	Ratio	Lower	Upper
78	100		
77	25.2	17.4	26.2
50	20.0	16.3	24.5





#37
1,2-Dichloroethane
Concen: 15.133 ppbv
RT: 3.214 min Scan# 966
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

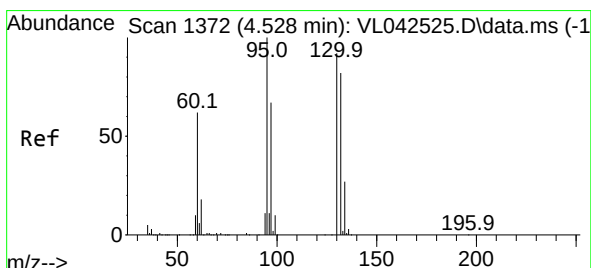
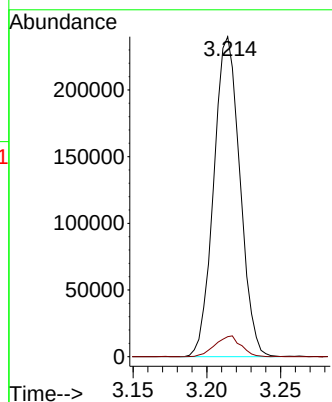
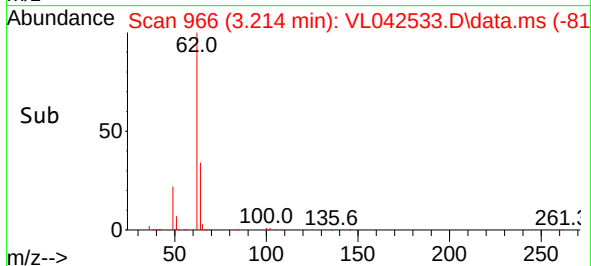
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



Tgt Ion: 62 Resp: 296168
Ion Ratio Lower Upper
62 100
98 6.4 5.0 7.4

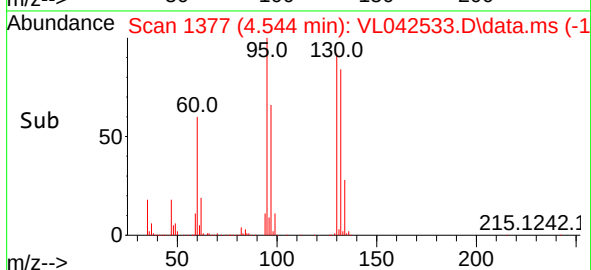
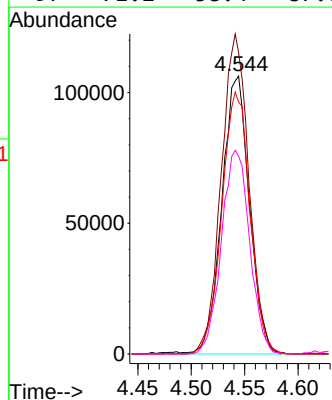
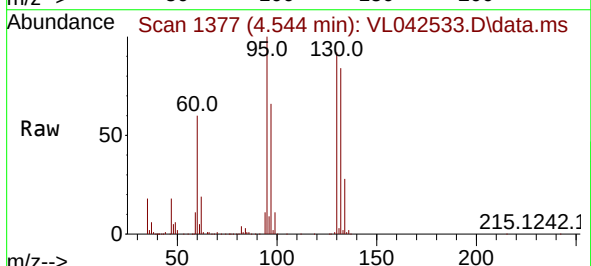
Manual Integrations
APPROVED

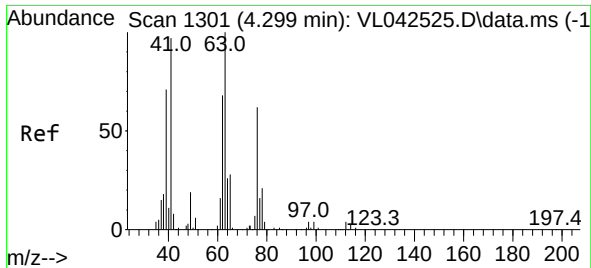
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#38
Trichloroethene
Concen: 16.255 ppbv
RT: 4.544 min Scan# 1377
Delta R.T. 0.016 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion:130 Resp: 190538
Ion Ratio Lower Upper
130 100
95 108.3 87.0 130.4
132 90.6 71.1 106.7
97 71.2 58.4 87.6





#39

1,2-Dichloropropane

Concen: 15.867 ppbv

RT: 4.308 min Scan# 1304

Delta R.T. 0.009 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 63 Resp: 162049

Ion Ratio Lower Upper

63 100

41 90.7 77.5 116.3

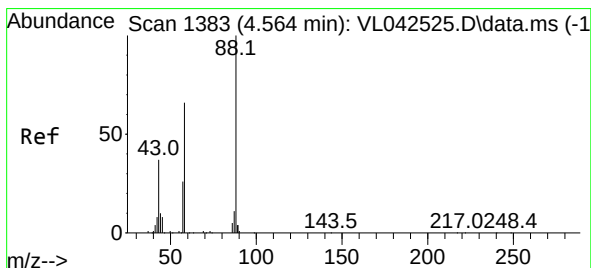
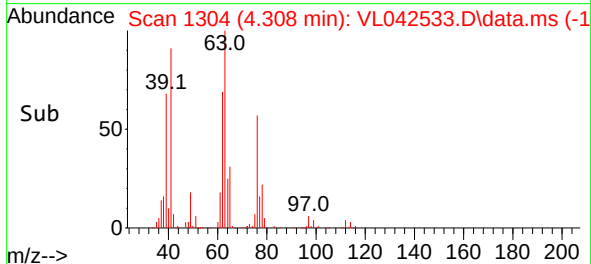
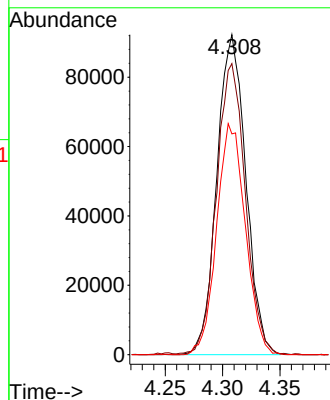
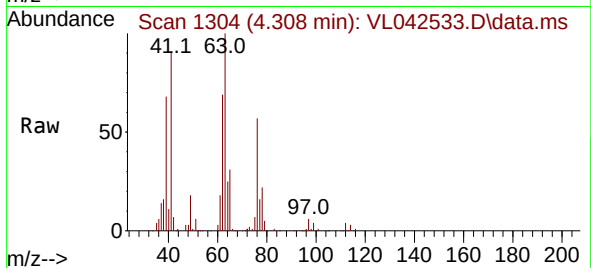
62 69.0 54.6 82.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#40

1,4-Dioxane

Concen: 17.187 ppbv m

RT: 4.580 min Scan# 1388

Delta R.T. 0.016 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Tgt Ion: 88 Resp: 69978

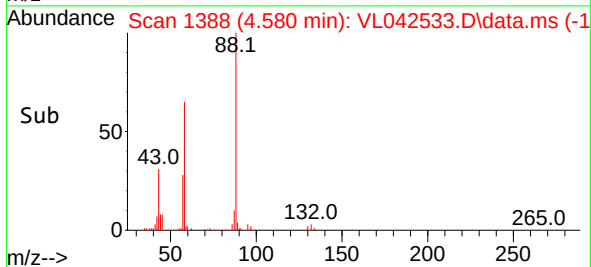
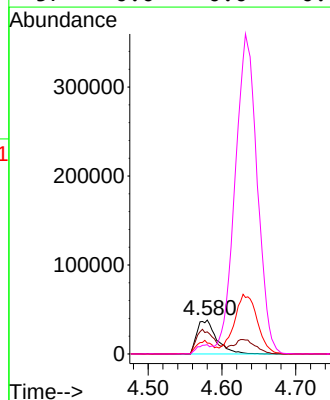
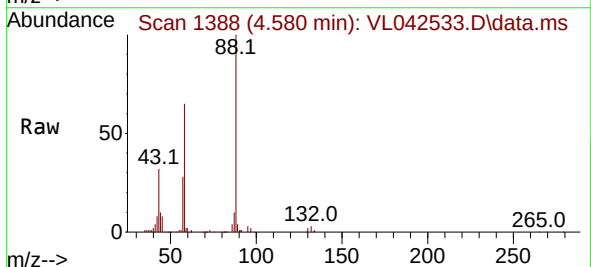
Ion Ratio Lower Upper

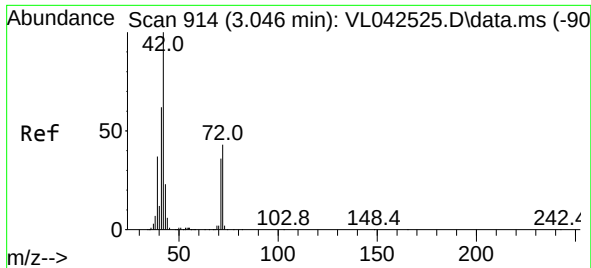
88 100

58 69.8 58.2 87.2

43 0.0 27.9 41.9#

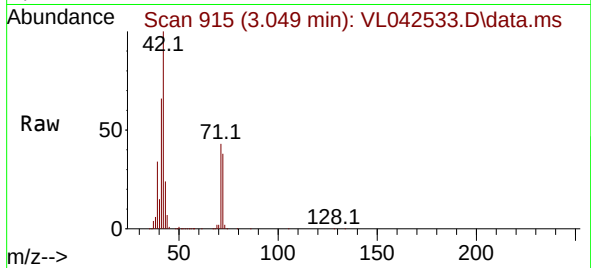
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 19.057 ppbv
RT: 3.049 min Scan# 914
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

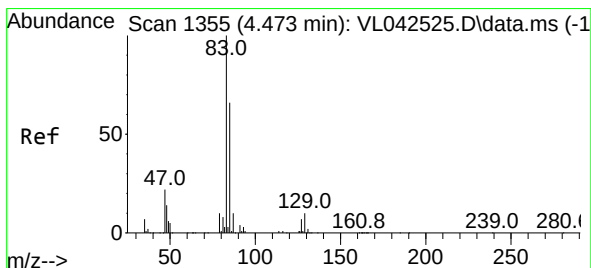
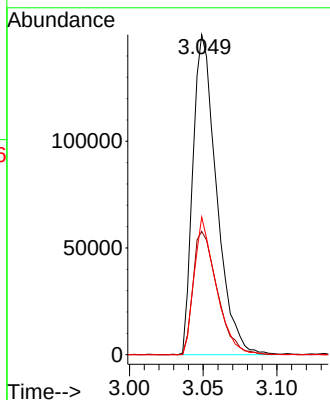
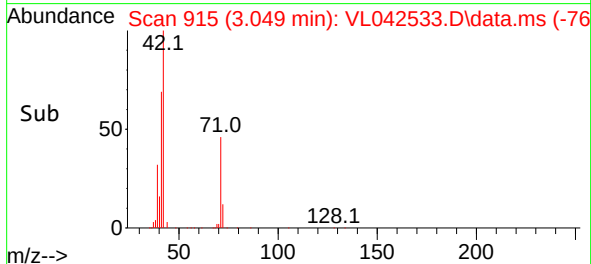
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



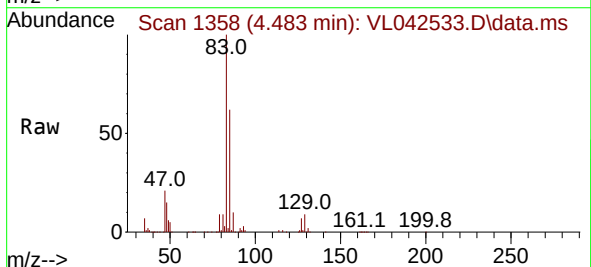
Tgt Ion: 42 Resp: 167734
Ion Ratio Lower Upper
42 100
72 39.6 32.7 49.1
71 39.6 30.4 45.6

Manual Integrations
APPROVED

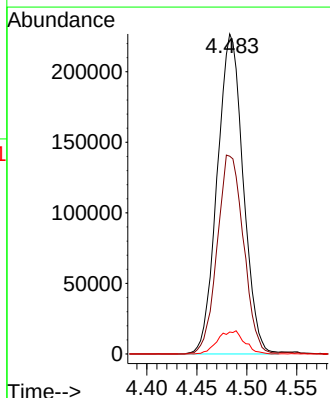
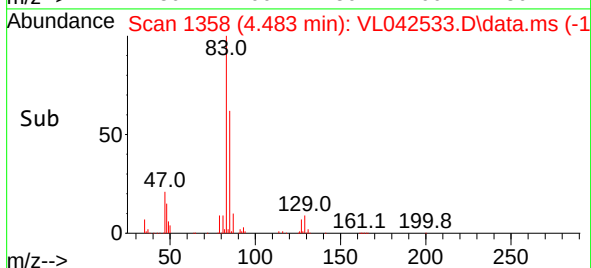
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

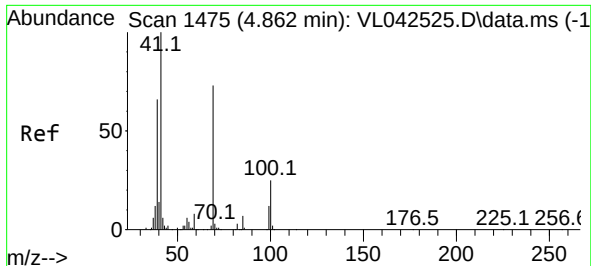


#42
Bromodichloromethane
Concen: 15.734 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. 0.009 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28



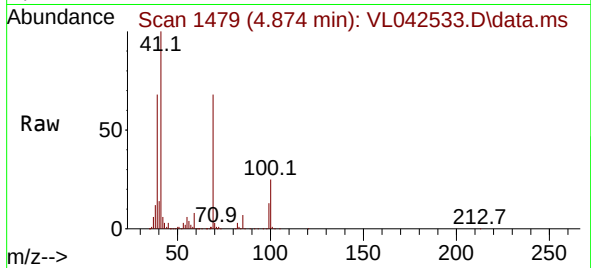
Tgt Ion: 83 Resp: 410197
Ion Ratio Lower Upper
83 100
85 61.8 52.6 79.0
127 6.8 6.0 9.0





#43
Methyl Methacrylate
Concen: 19.145 ppbv
RT: 4.874 min Scan# 1475
Delta R.T. 0.013 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

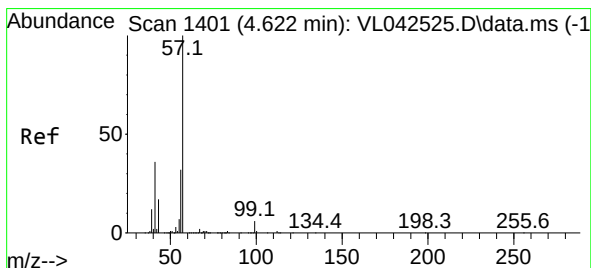
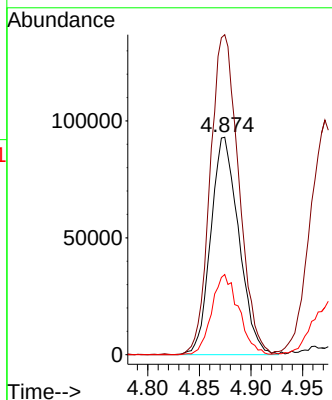
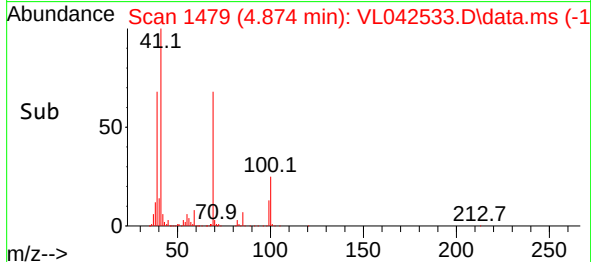
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



Tgt Ion: 69 Resp: 175429
Ion Ratio Lower Upper
69 100
41 150.3 119.9 179.9
100 35.7 28.4 42.6

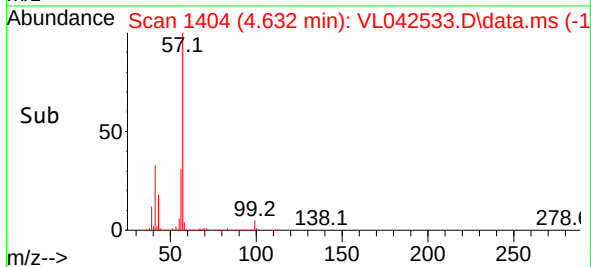
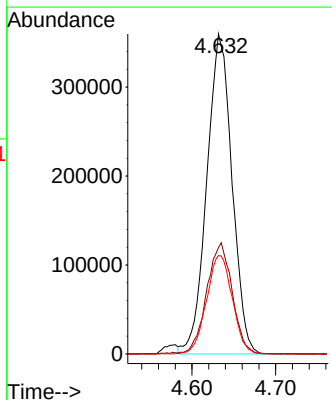
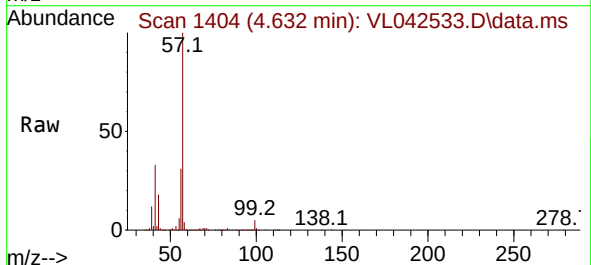
Manual Integrations
APPROVED

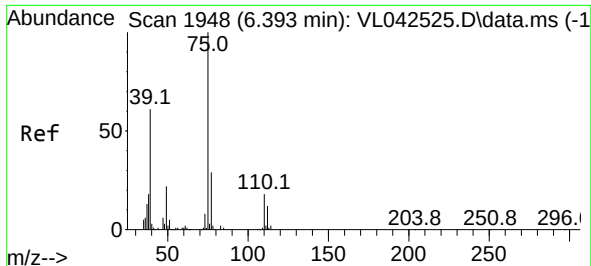
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#44
2,2,4-Trimethylpentane
Concen: 17.485 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. 0.009 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

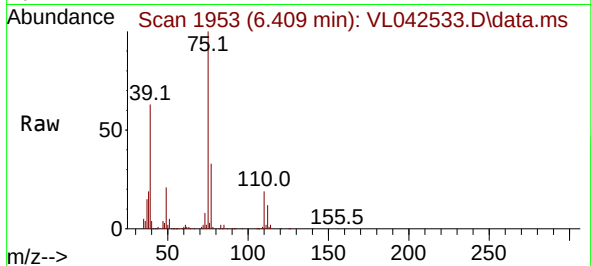
Tgt Ion: 57 Resp: 753360
Ion Ratio Lower Upper
57 100
41 35.5 28.3 42.5
56 31.5 25.9 38.9





#45
t-1,3-Dichloropropene
Concen: 19.247 ppbv
RT: 6.409 min Scan# 1948
Delta R.T. 0.016 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

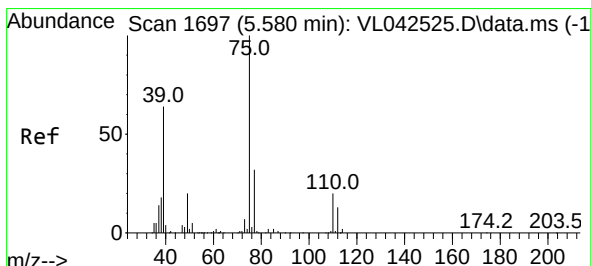
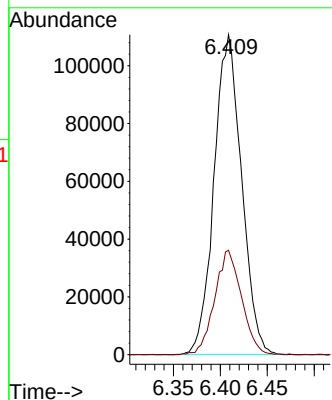
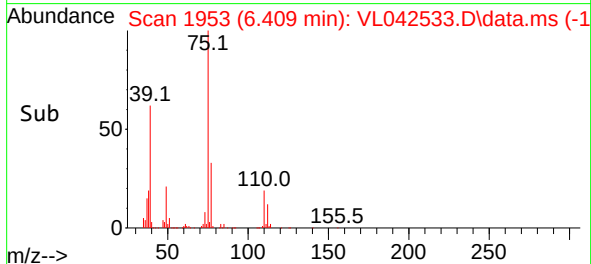
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 75 Resp: 22516
Ion Ratio Lower Upper
75 100
77 32.7 23.3 34.9

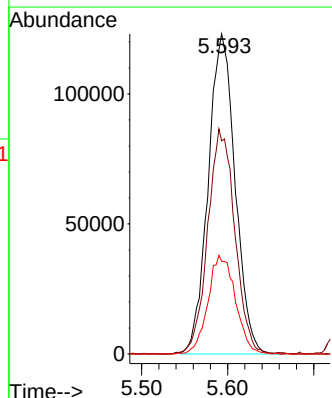
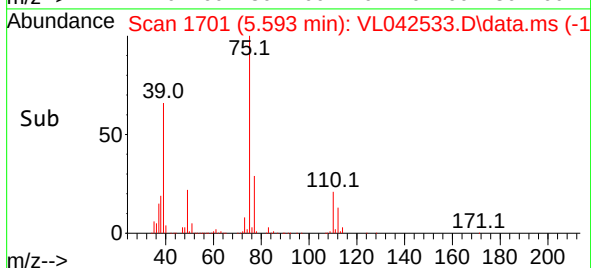
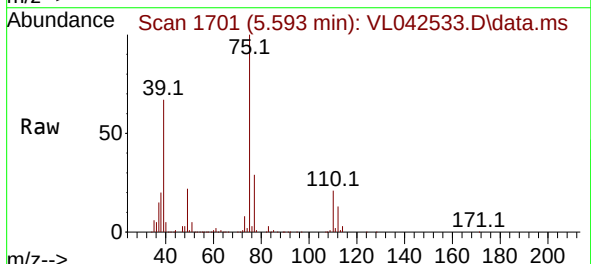
Manual Integrations
APPROVED

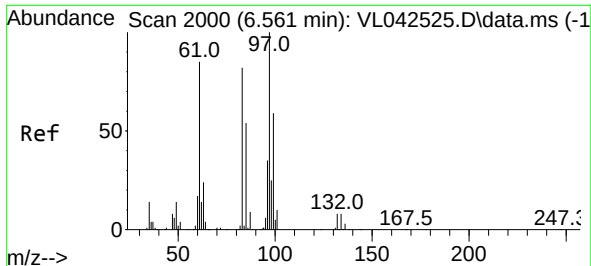
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#46
cis-1,3-Dichloropropene
Concen: 18.975 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. 0.013 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion: 75 Resp: 267742
Ion Ratio Lower Upper
75 100
39 66.2 51.2 76.8
77 29.0 25.4 38.0





#47
1,1,2-Trichloroethane
Concen: 15.225 ppbv
RT: 6.574 min Scan# 2004
Delta R.T. 0.013 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

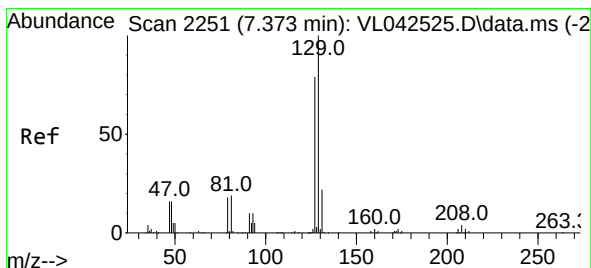
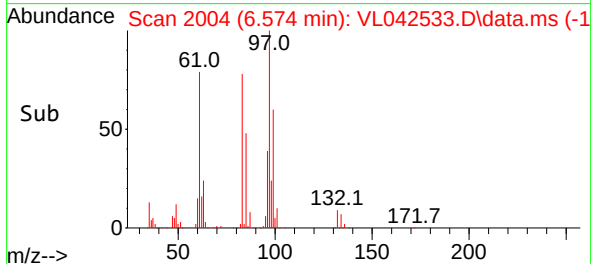
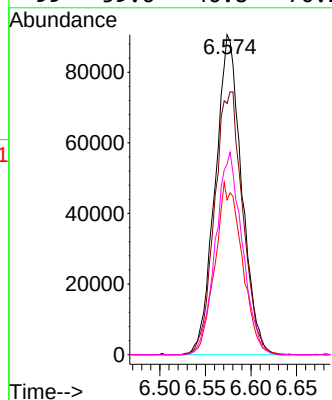
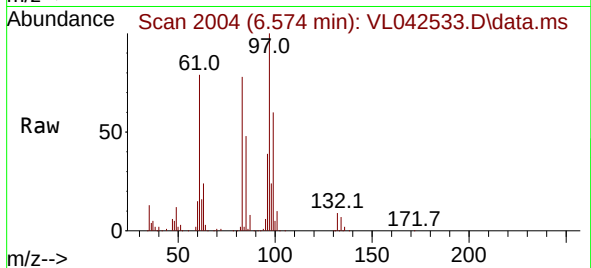
VSTDICC015

Tgt Ion: 97 Resp: 18308
Ion Ratio Lower Upper
97 100
83 78.4 66.0 99.0
85 48.4 42.8 64.2
99 59.6 46.8 70.2

Manual Integrations

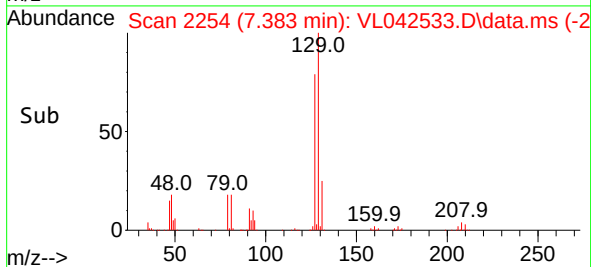
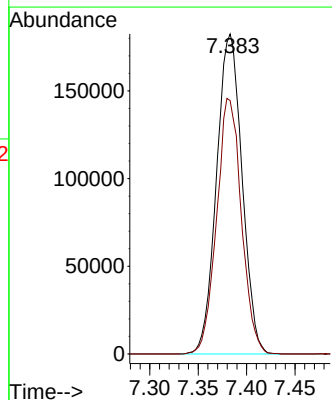
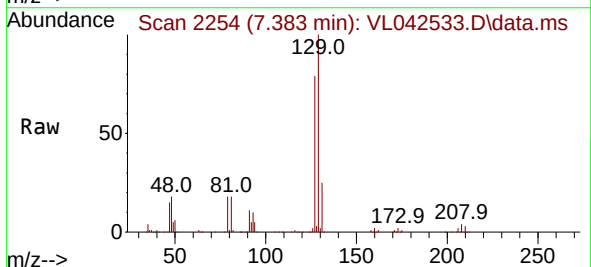
APPROVED

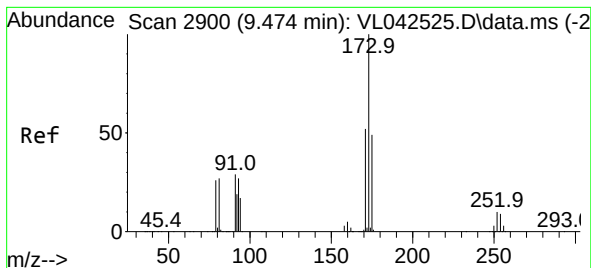
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#48
Dibromochloromethane
Concen: 16.641 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.009 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion:129 Resp: 334374
Ion Ratio Lower Upper
129 100
127 77.5 39.6 118.8





#49

Bromoform

Concen: 16.922 ppbv

RT: 9.480 min Scan# 2900

Delta R.T. 0.006 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

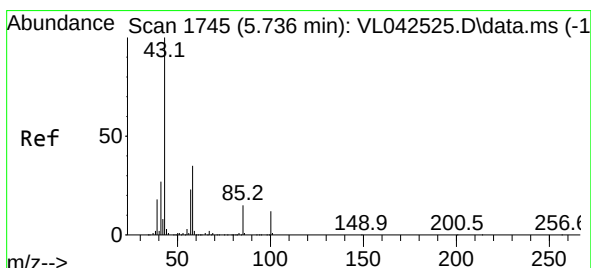
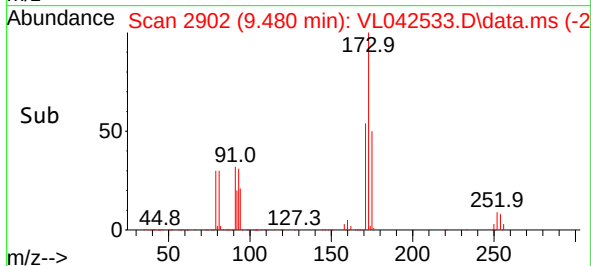
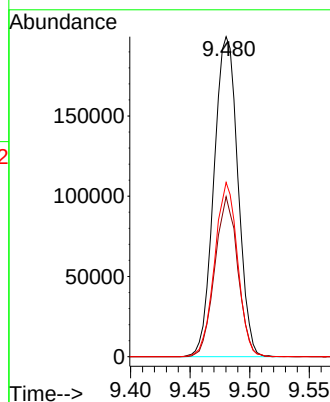
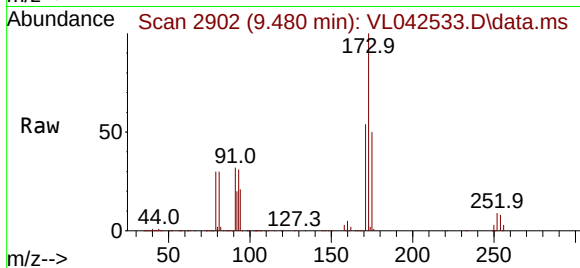
VSTDIC015

Tgt Ion:173 Resp: 279015
 Ion Ratio Lower Upper
 173 100
 175 47.9 39.1 58.7
 171 52.1 41.8 62.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#50

4-Methyl-2-Pentanone

Concen: 18.621 ppbv

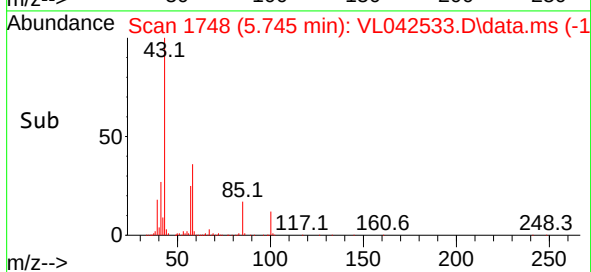
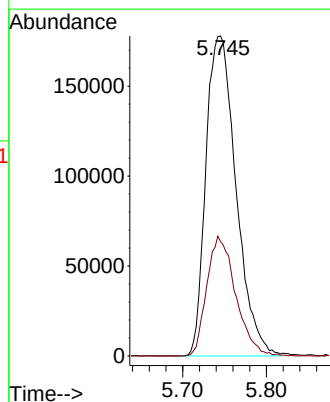
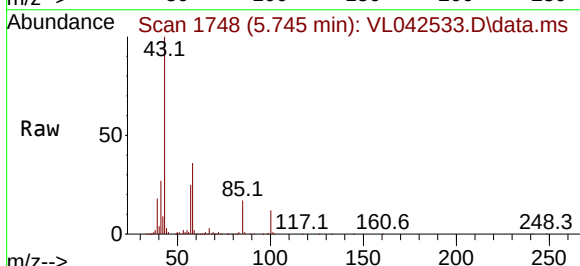
RT: 5.745 min Scan# 1748

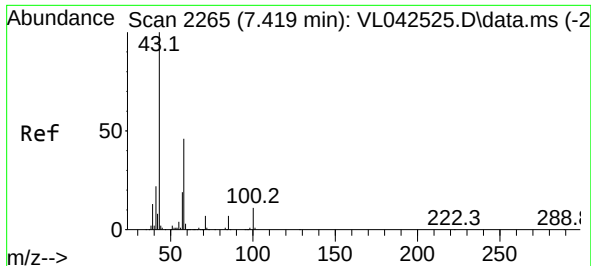
Delta R.T. 0.009 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

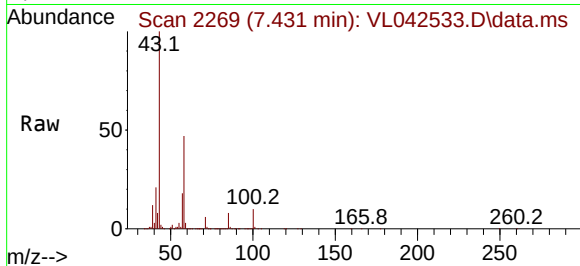
Tgt Ion: 43 Resp: 445638
 Ion Ratio Lower Upper
 43 100
 58 35.7 28.6 42.8





#51
2-Hexanone
Concen: 20.654 ppbv
RT: 7.431 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

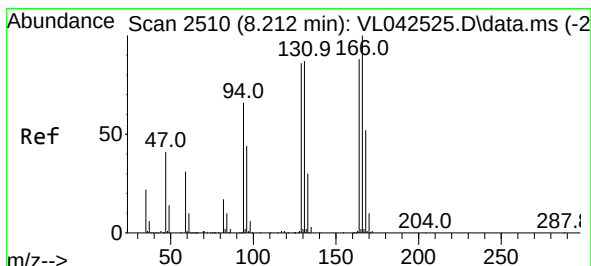
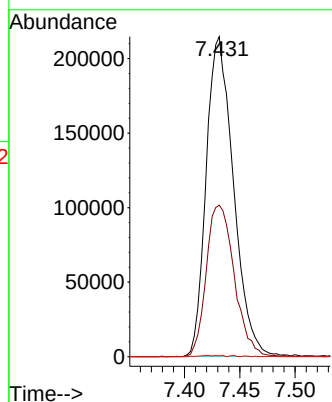
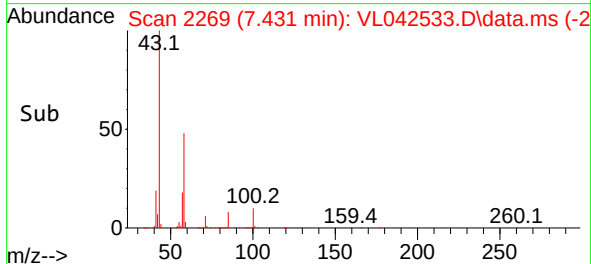
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 43 Resp: 36739
Ion Ratio Lower Upper
43 100
58 48.8 37.5 56.3
98 0.5 0.9 1.3

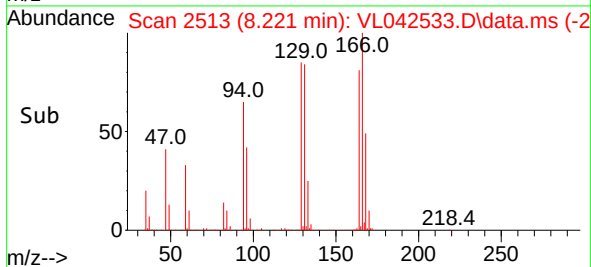
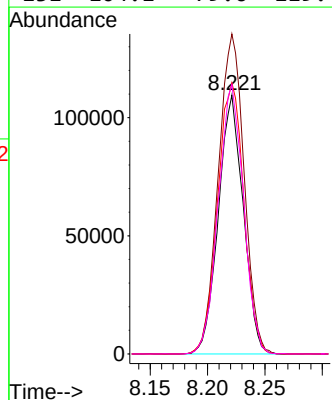
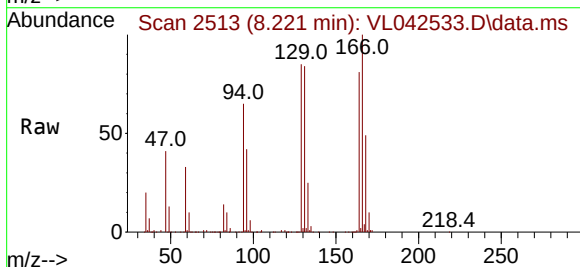
Manual Integrations
APPROVED

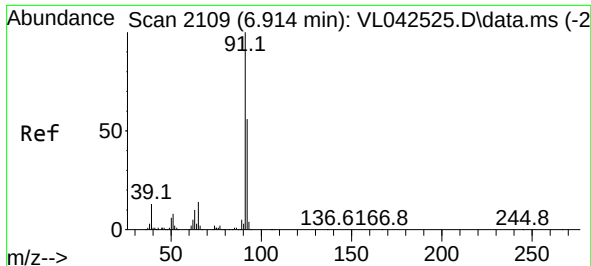
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#52
Tetrachloroethene
Concen: 15.639 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.009 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion:164 Resp: 165300
Ion Ratio Lower Upper
164 100
166 123.6 91.3 136.9
129 104.8 78.9 118.3
131 104.1 79.6 119.4





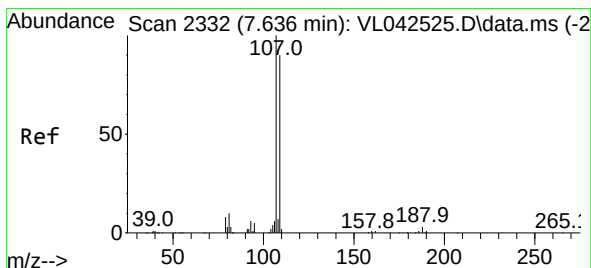
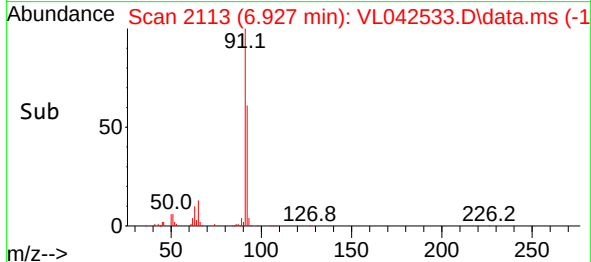
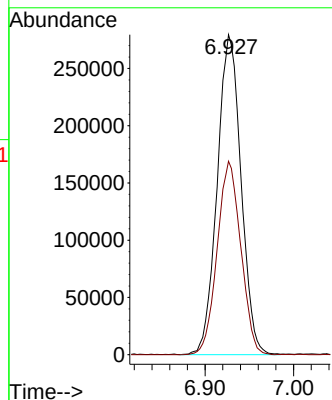
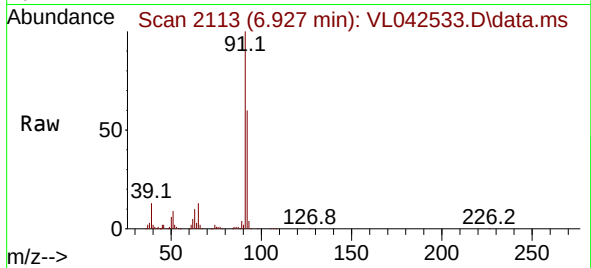
#53
Toluene
Concen: 19.420 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. 0.013 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 91 Resp: 52287
Ion Ratio Lower Upper
91 100
92 59.9 47.8 71.6

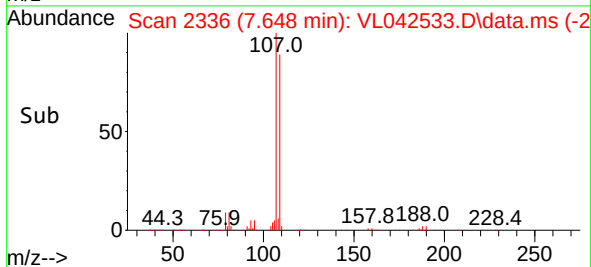
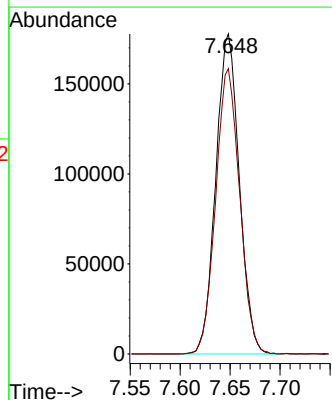
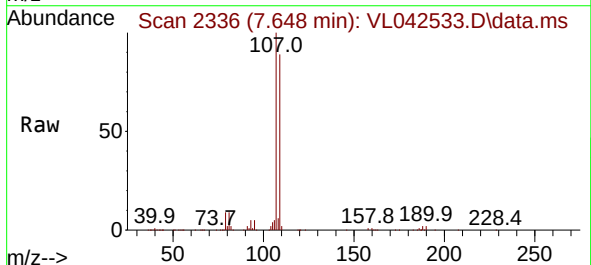
Manual Integrations
APPROVED

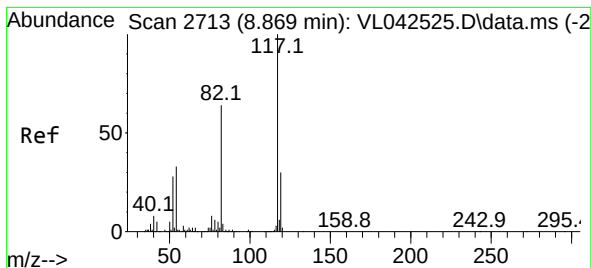
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#54
1,2-Dibromoethane
Concen: 16.547 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. 0.013 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion:107 Resp: 290801
Ion Ratio Lower Upper
107 100
109 89.2 72.2 108.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 2716

Delta R.T. 0.009 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion:117 Resp: 279828

Ion Ratio Lower Upper

117 100

82 65.2 55.0 82.4

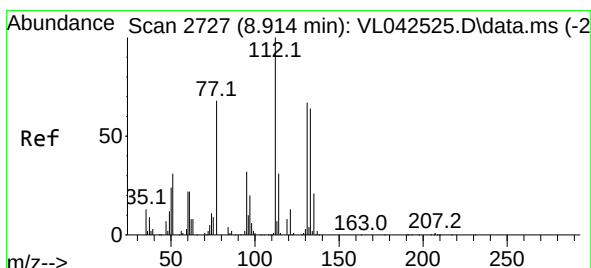
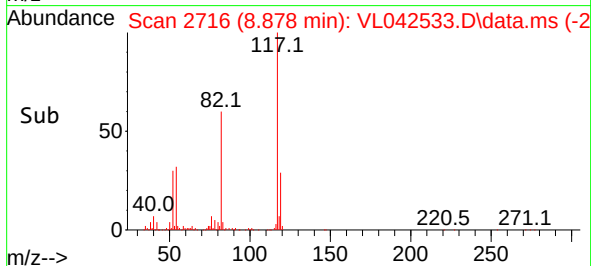
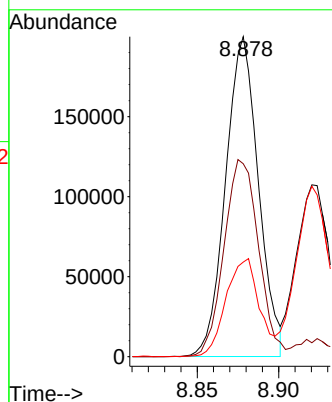
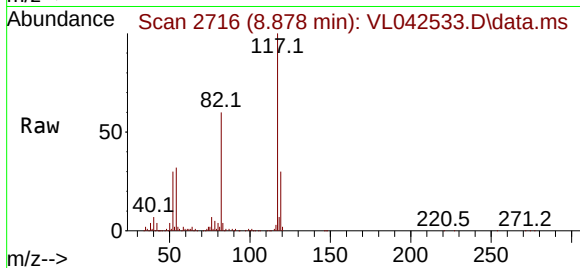
119 31.1 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 14.589 ppbv

RT: 8.920 min Scan# 2729

Delta R.T. 0.006 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

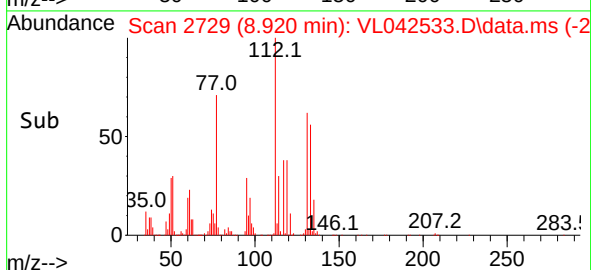
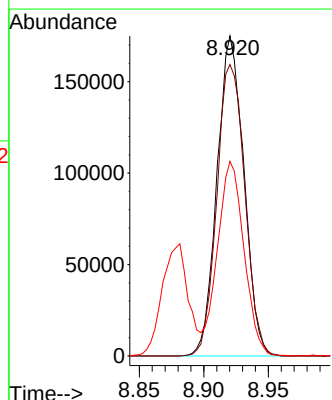
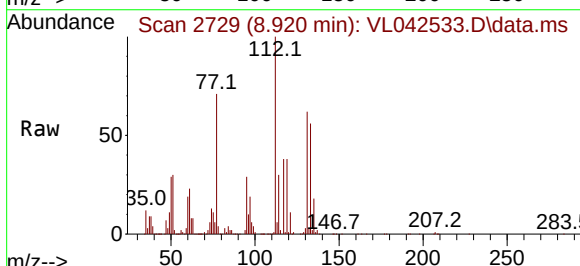
Tgt Ion:131 Resp: 253110

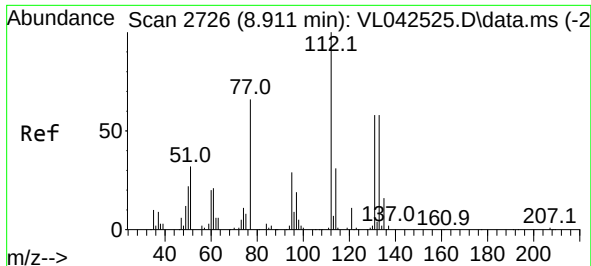
Ion Ratio Lower Upper

131 100

133 94.8 77.4 116.2

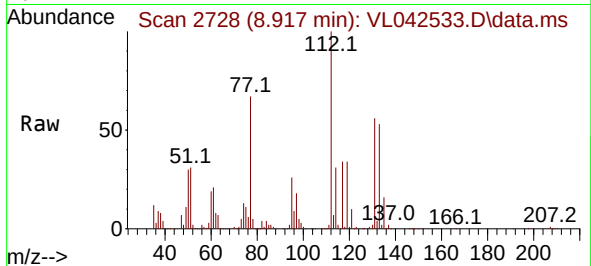
119 60.0 49.0 73.4





#57
Chlorobenzene
Concen: 15.057 ppbv
RT: 8.917 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

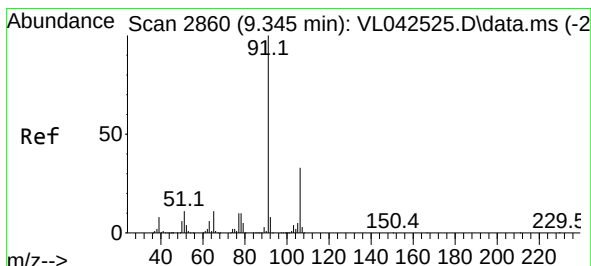
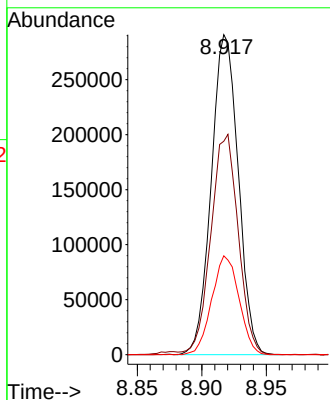
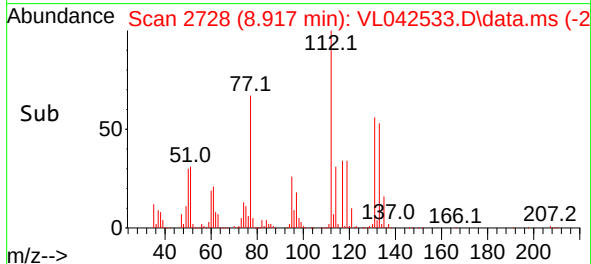
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



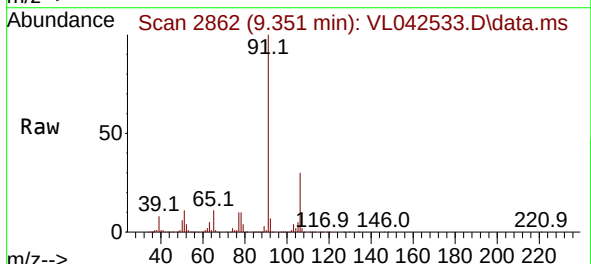
Tgt Ion: 112 Resp: 423059
Ion Ratio Lower Upper
112 100
77 66.6 53.6 80.4
114 30.8 28.2 34.4

Manual Integrations
APPROVED

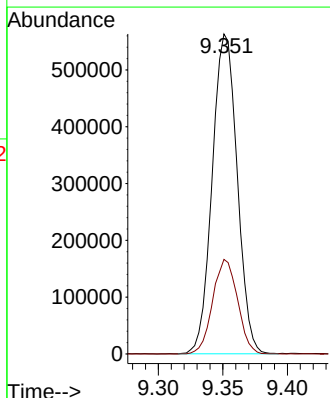
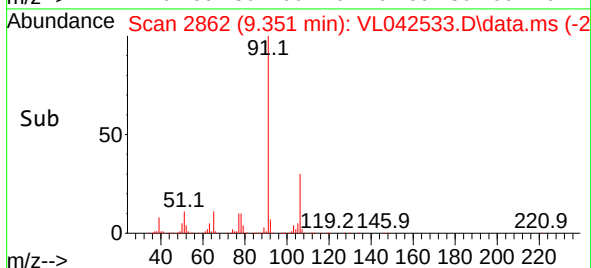
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

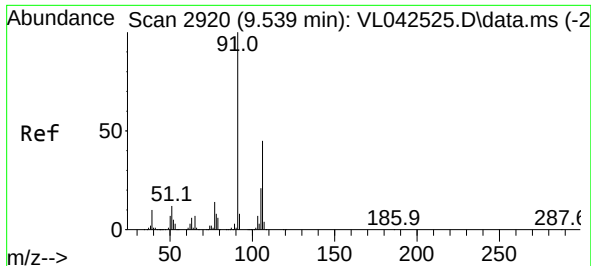


#58
Ethyl Benzene
Concen: 19.852 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28



Tgt Ion: 91 Resp: 757160
Ion Ratio Lower Upper
91 100
106 29.6 26.0 39.0





#59

m/p-Xylene

Concen: 36.878 ppbv m

RT: 9.548 min Scan# 2920

Delta R.T. 0.009 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 91 Resp: 125125

Ion Ratio Lower Upper

91 100

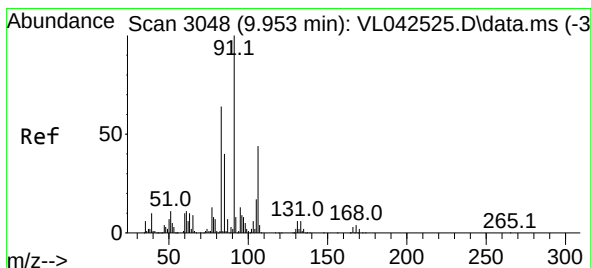
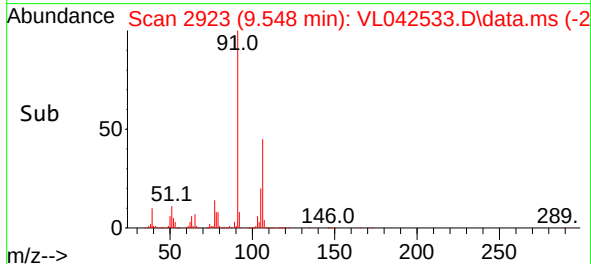
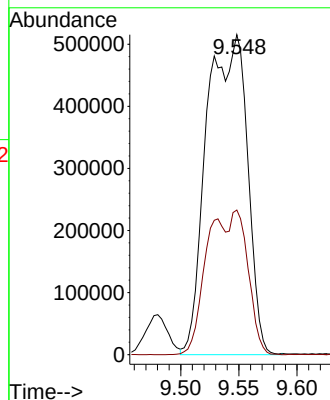
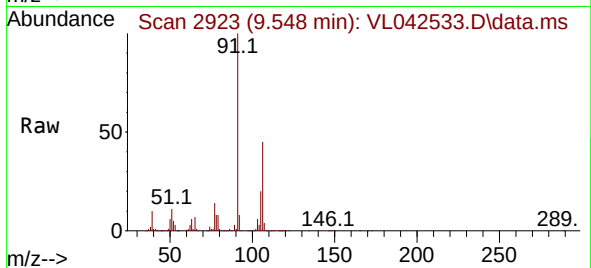
106 45.3 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#60

o-Xylene

Concen: 18.698 ppbv

RT: 9.962 min Scan# 3051

Delta R.T. 0.009 min

Lab File: VL042533.D

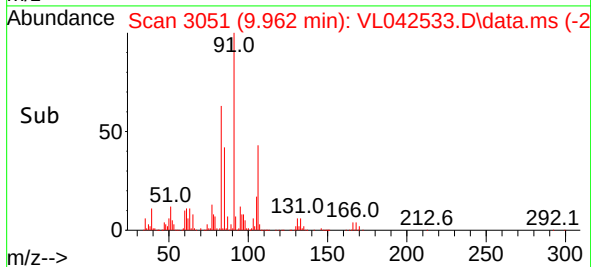
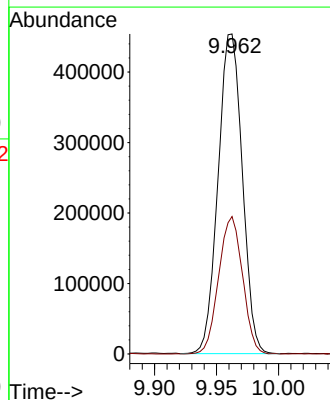
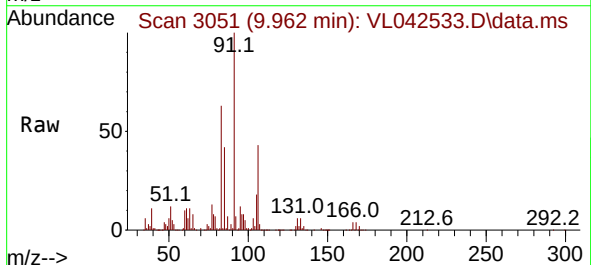
Acq: 12 May 2025 14:28

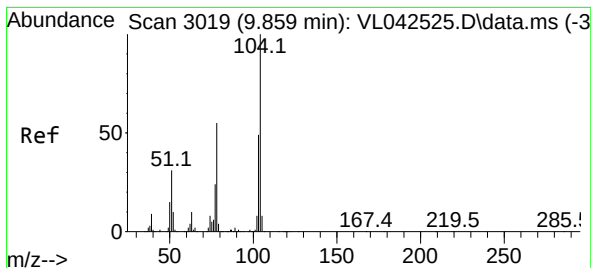
Tgt Ion: 91 Resp: 618234

Ion Ratio Lower Upper

91 100

106 42.4 21.6 64.6





#61

Styrene

Concen: 22.137 ppbv

RT: 9.869 min Scan# 3019

Delta R.T. 0.009 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

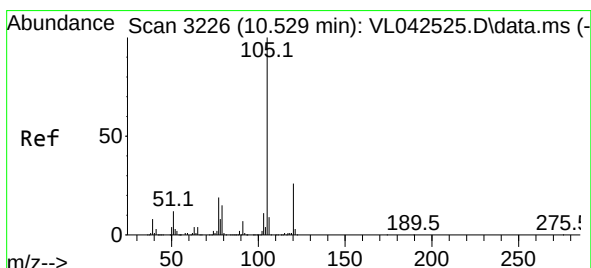
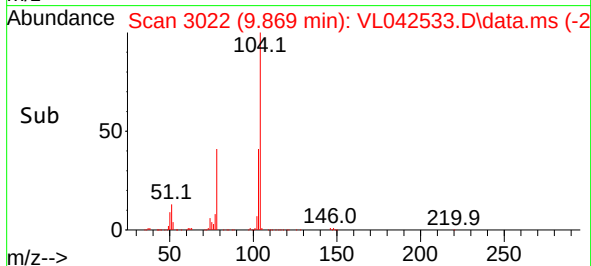
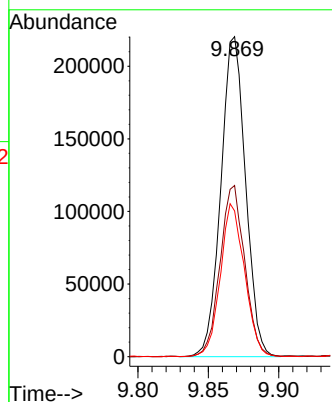
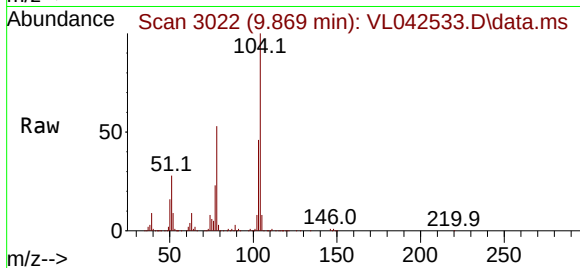
VSTDIC015

Tgt Ion:104 Resp: 269609
 Ion Ratio Lower Upper
 104 100
 78 53.7 44.7 67.1
 103 47.0 38.6 58.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#62

Isopropylbenzene

Concen: 18.112 ppbv

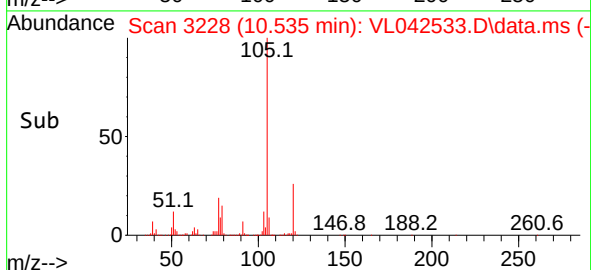
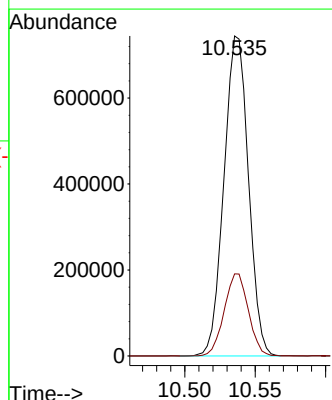
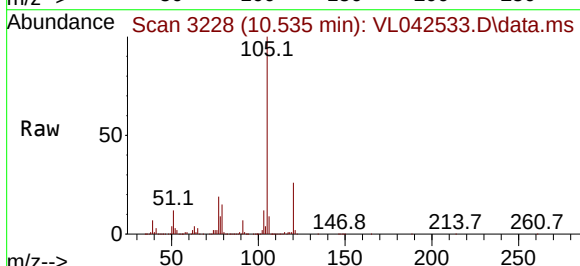
RT: 10.535 min Scan# 3228

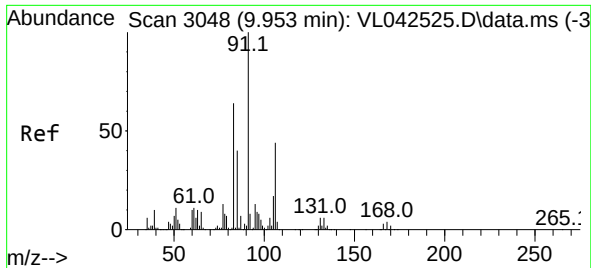
Delta R.T. 0.006 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

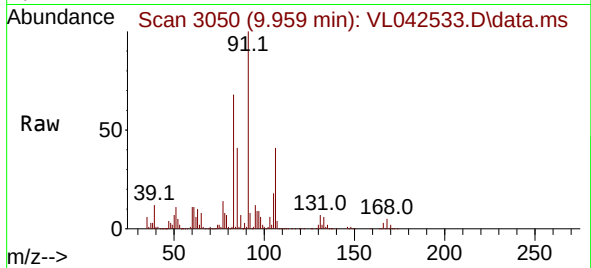
Tgt Ion:105 Resp: 902388
 Ion Ratio Lower Upper
 105 100
 120 25.4 20.1 30.1





#63
1,1,2,2-Tetrachloroethane
Concen: 14.351 ppbv
RT: 9.959 min Scan# 3048
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

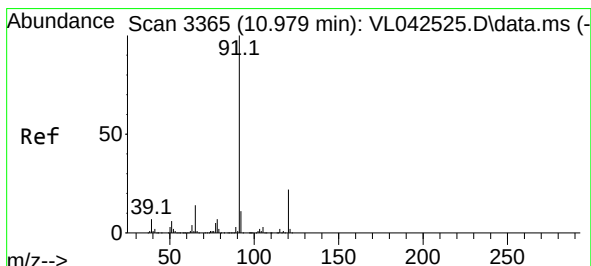
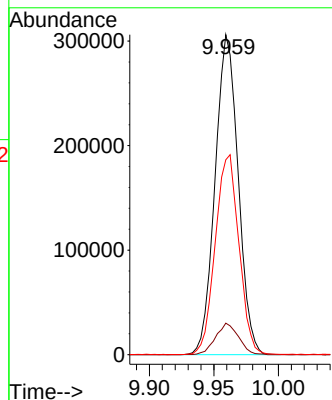
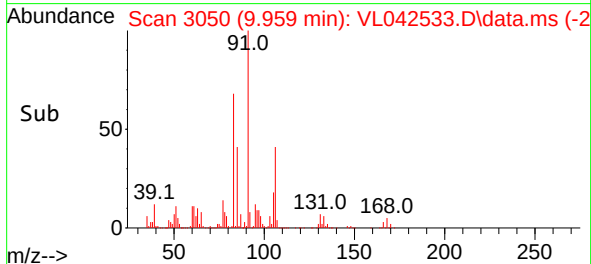
Instrument : MSVOA_L
ClientSampleId : VSTDIC015



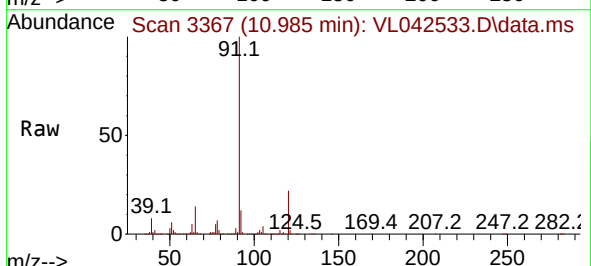
Tgt Ion: 83 Resp: 38058
Ion Ratio Lower Upper
83 100
131 9.8 4.9 14.7
85 63.9 32.3 96.8

Manual Integrations
APPROVED

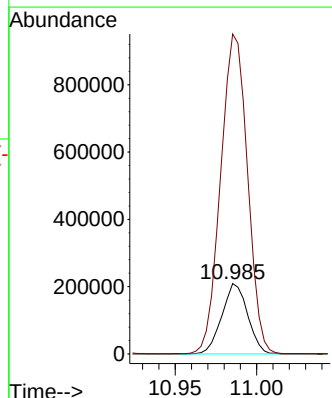
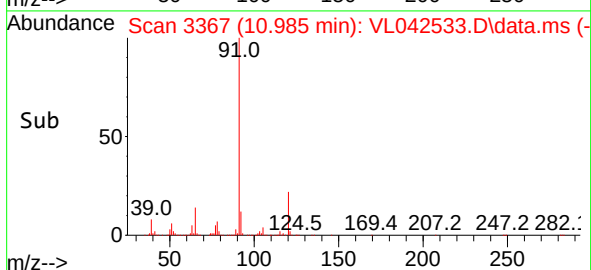
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

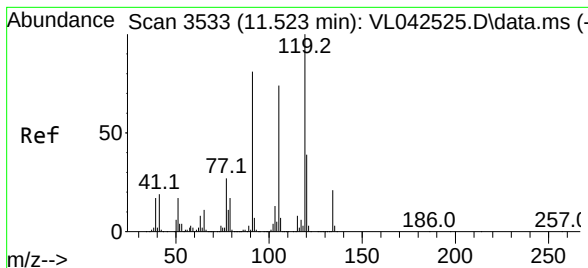


#64
n-propylbenzene
Concen: 18.238 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28



Tgt Ion:120 Resp: 230244
Ion Ratio Lower Upper
120 100
91 473.5 377.7 566.5





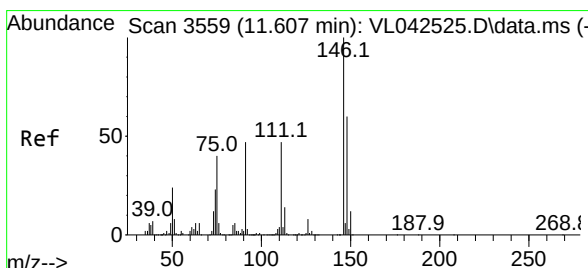
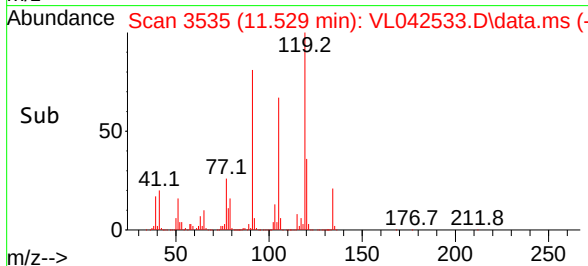
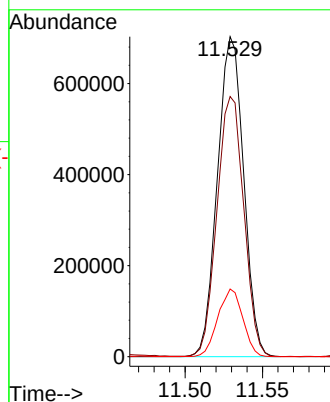
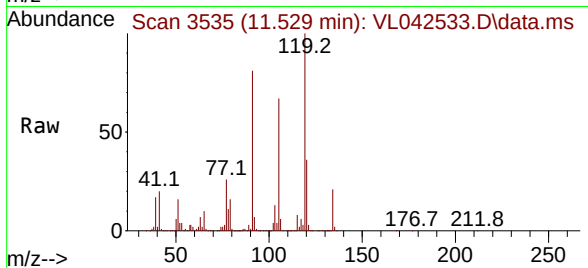
#65
tert-Butylbenzene
Concen: 18.087 ppbv
RT: 11.529 min Scan# 3533
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion:119 Resp: 82749
Ion Ratio Lower Upper
119 100
91 83.0 66.6 99.8
134 20.1 16.3 24.5

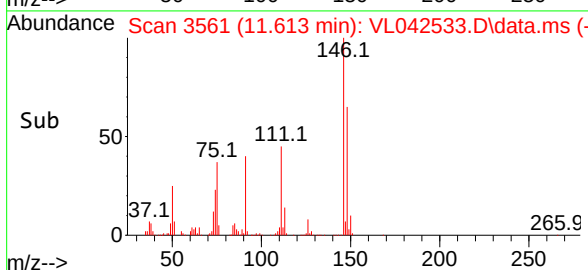
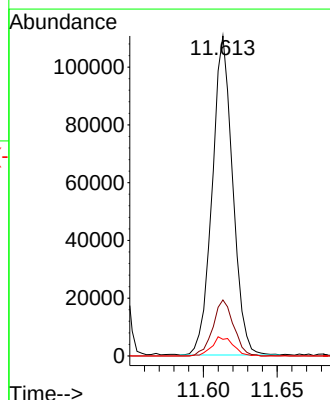
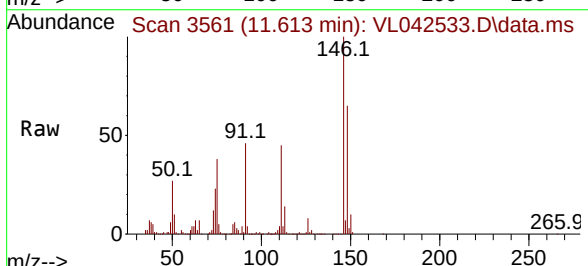
Manual Integrations
APPROVED

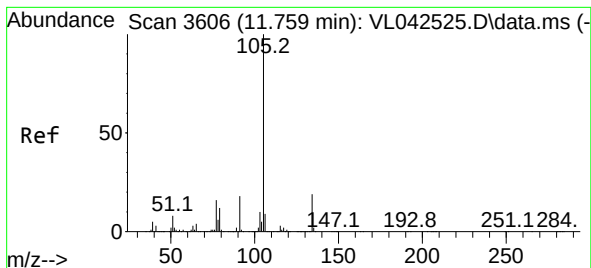
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#66
Benzyl Chloride
Concen: 17.633 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

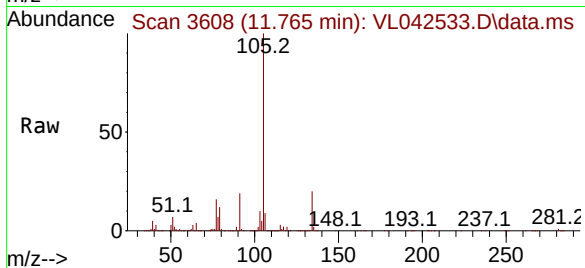
Tgt Ion: 91 Resp: 106741
Ion Ratio Lower Upper
91 100
126 17.9 13.7 20.5
128 6.3 4.2 6.2#





#67
 sec-Butylbenzene
 Concen: 17.089 ppbv
 RT: 11.765 min Scan# 3608
 Delta R.T. 0.006 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

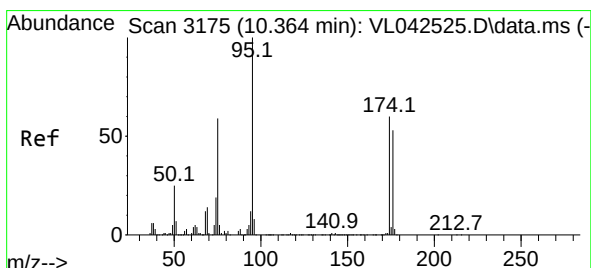
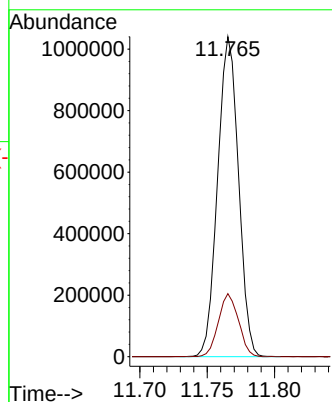
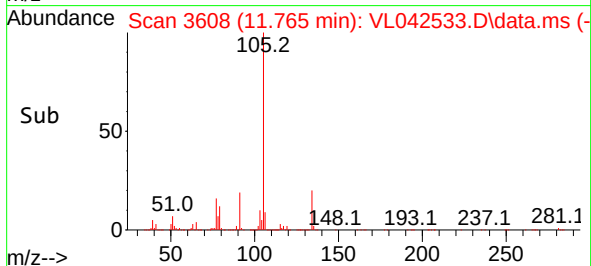
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



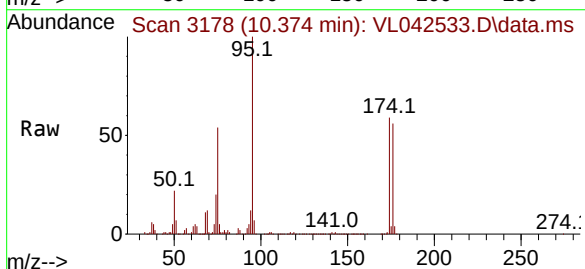
Tgt Ion:105 Resp: 1120950
 Ion Ratio Lower Upper
 105 100
 134 19.0 14.9 22.3

Manual Integrations
 APPROVED

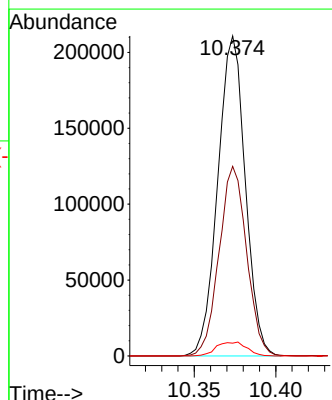
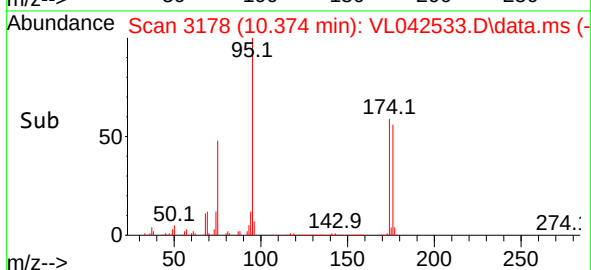
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

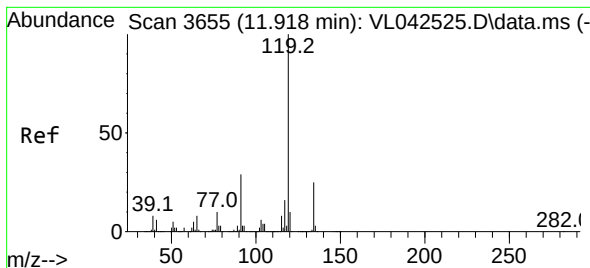


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.136 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.009 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28



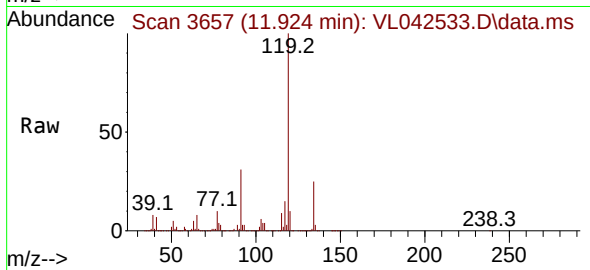
Tgt Ion: 95 Resp: 246798
 Ion Ratio Lower Upper
 95 100
 174 59.5 48.0 72.0
 175 4.8 3.5 5.3





#69
 p-Isopropyltoluene
 Concen: 18.247 ppbv
 RT: 11.924 min Scan# 3657
 Delta R.T. 0.006 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

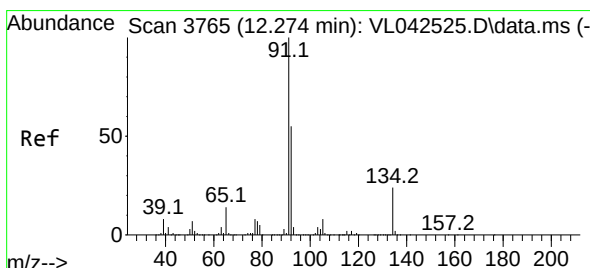
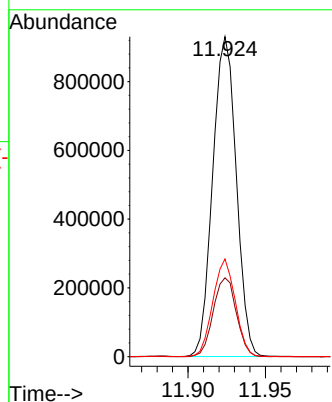
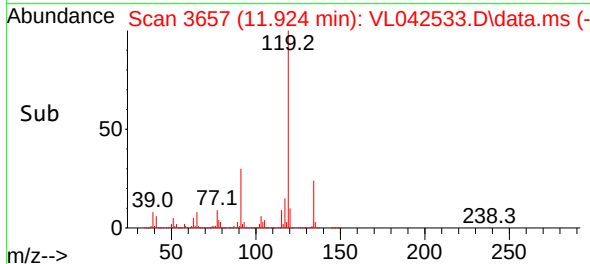
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



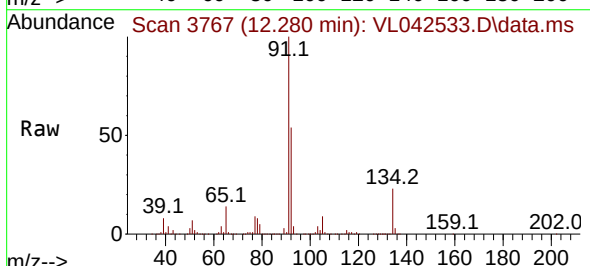
Tgt Ion: 119 Resp: 983988
 Ion Ratio Lower Upper
 119 100
 134 24.3 19.8 29.6
 91 29.2 23.6 35.4

Manual Integrations
 APPROVED

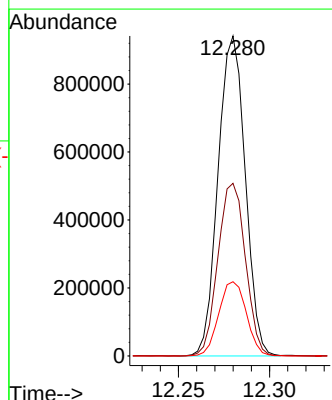
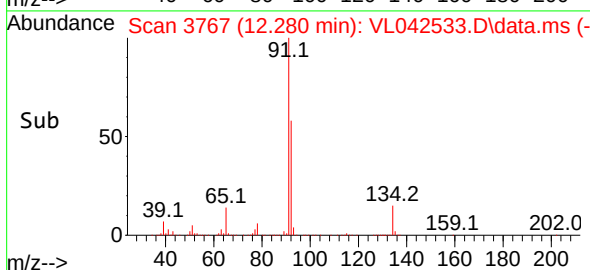
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

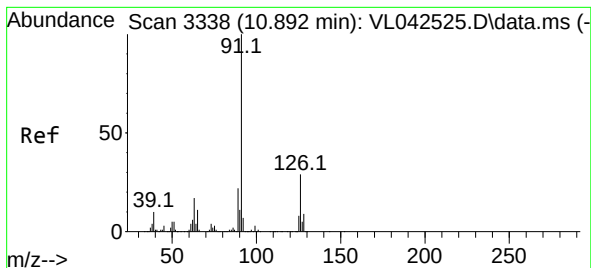


#70
 n-Butylbenzene
 Concen: 18.295 ppbv
 RT: 12.280 min Scan# 3767
 Delta R.T. 0.006 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28



Tgt Ion: 91 Resp: 974868
 Ion Ratio Lower Upper
 91 100
 92 54.8 43.7 65.5
 134 23.6 18.9 28.3





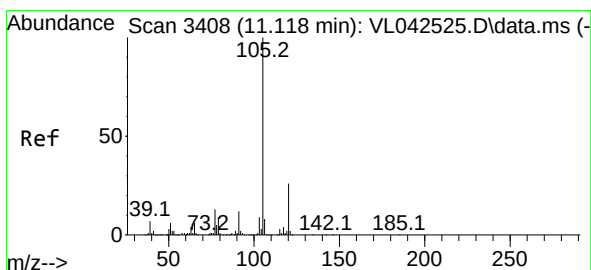
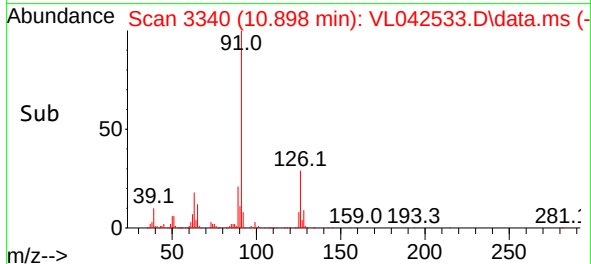
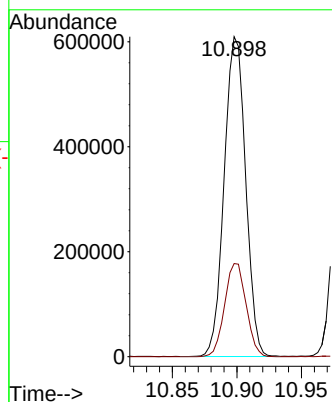
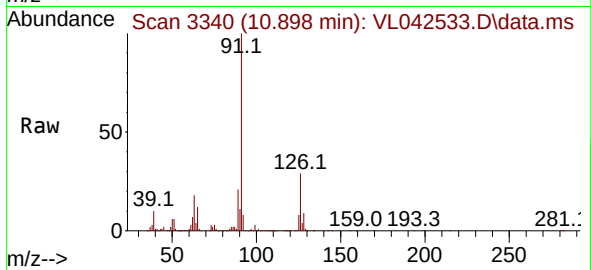
#71
2-Chlorotoluene
Concen: 18.636 ppbv
RT: 10.898 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 91 Resp: 70305
Ion Ratio Lower Upper
91 100
126 29.1 11.4 45.6

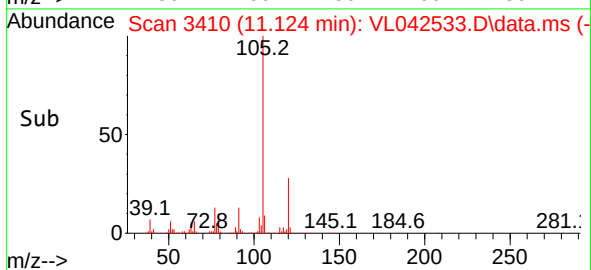
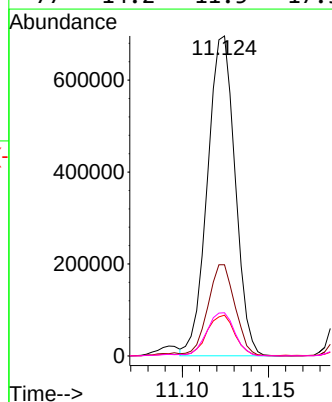
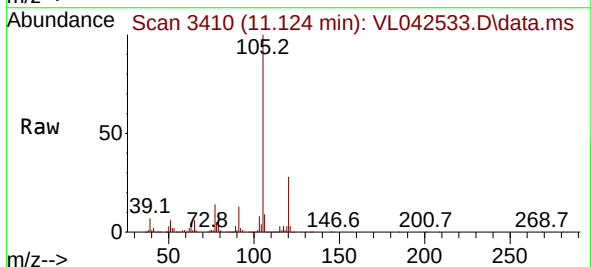
Manual Integrations
APPROVED

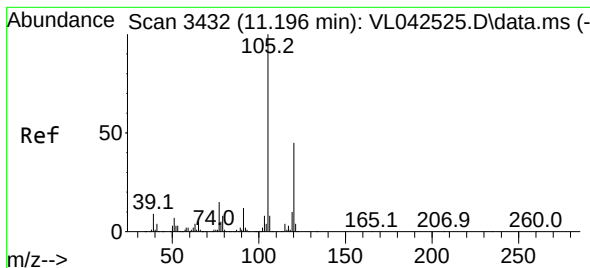
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#72
4-Ethyltoluene
Concen: 18.954 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. 0.006 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

Tgt Ion:105 Resp: 777799
Ion Ratio Lower Upper
105 100
120 28.7 22.9 34.3
91 13.1 10.9 16.3
77 14.2 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 18.296 ppbv

RT: 11.202 min Scan# 3434

Delta R.T. 0.006 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:105 Resp: 654009

Ion Ratio Lower Upper

105 100

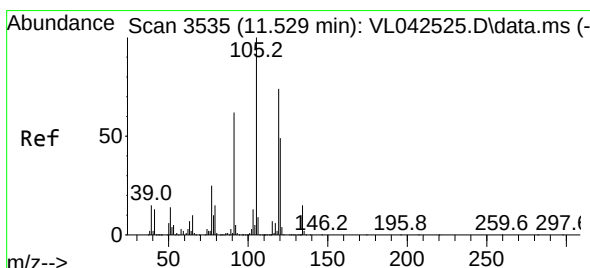
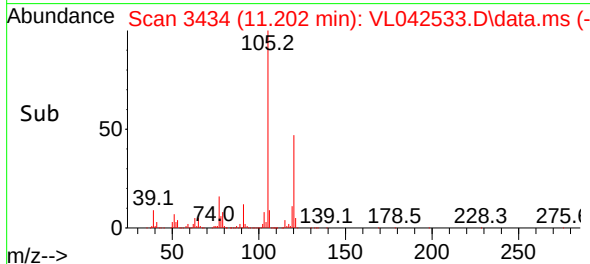
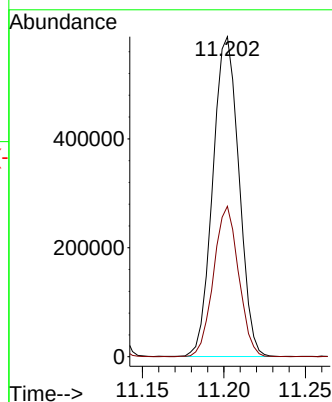
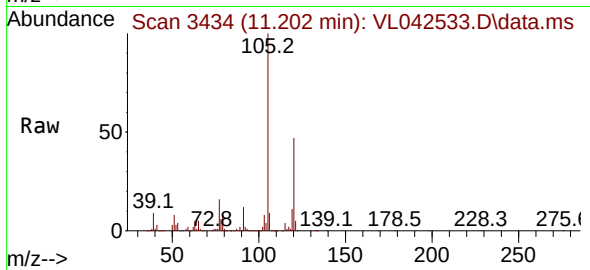
120 47.0 36.0 54.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#74

1,2,4-Trimethylbenzene

Concen: 16.496 ppbv

RT: 11.535 min Scan# 3537

Delta R.T. 0.006 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Tgt Ion:105 Resp: 725454

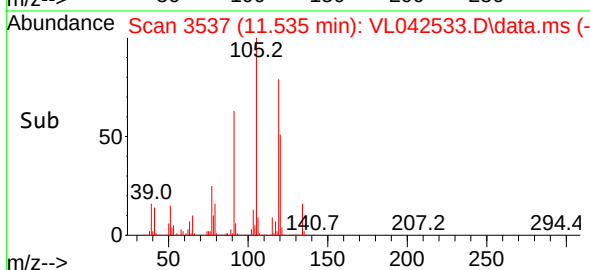
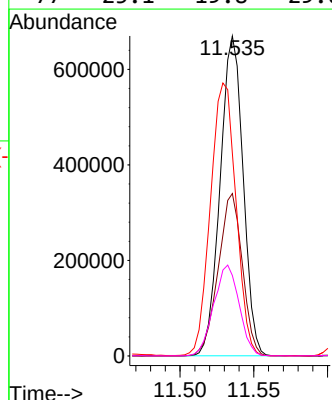
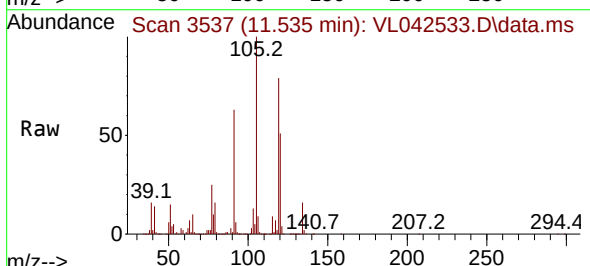
Ion Ratio Lower Upper

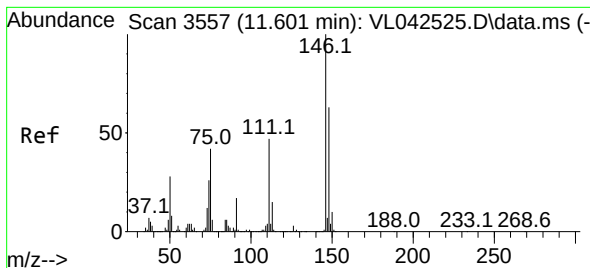
105 100

120 50.8 39.0 58.6

91 63.2 49.4 74.2

77 25.1 19.8 29.6





#75

1,3-Dichlorobenzene

Concen: 15.690 ppbv

RT: 11.607 min Scan# 3557

Delta R.T. 0.006 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC015

Tgt Ion:146 Resp: 432120

Ion Ratio Lower Upper

146 100

111 48.2 23.6 71.0

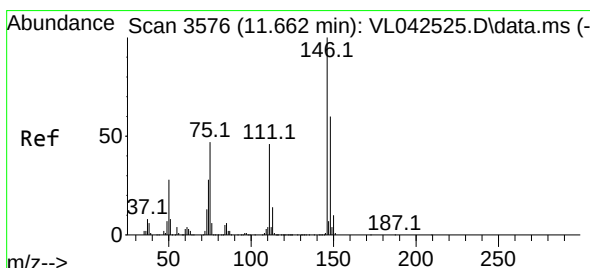
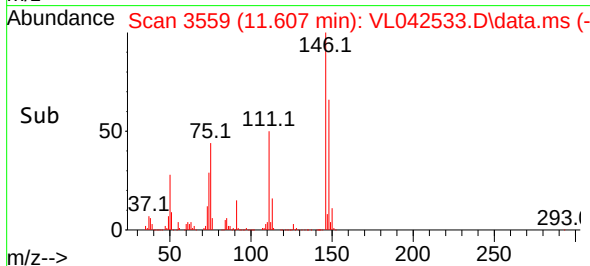
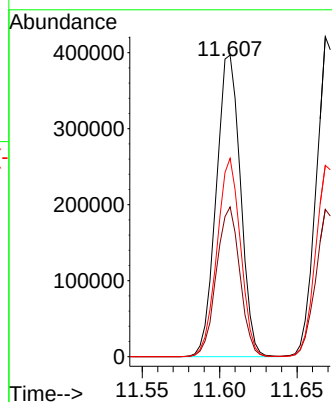
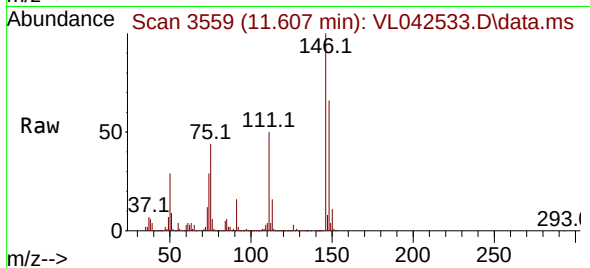
148 63.7 31.6 94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#76

1,4-Dichlorobenzene

Concen: 16.387 ppbv

RT: 11.668 min Scan# 3578

Delta R.T. 0.006 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

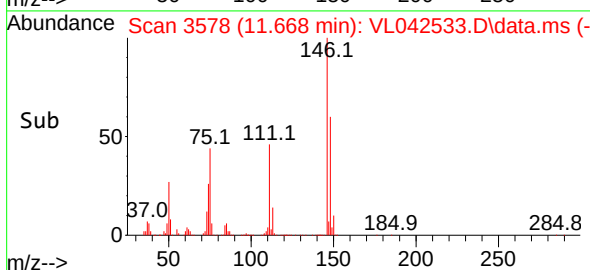
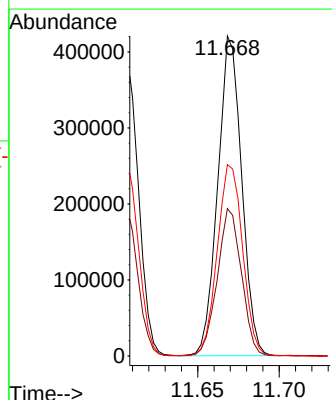
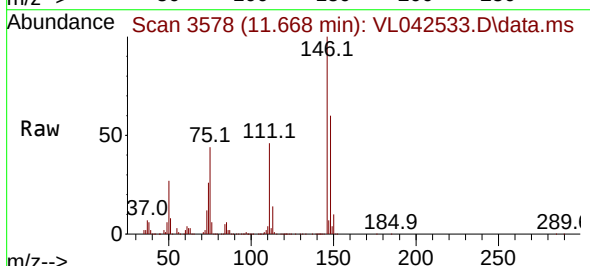
Tgt Ion:146 Resp: 429425

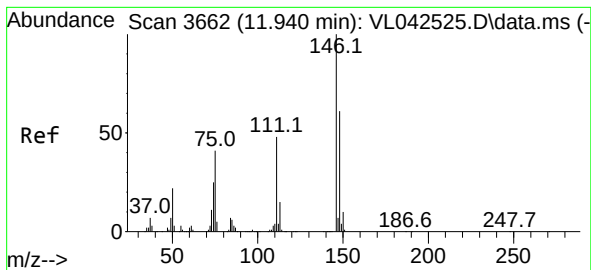
Ion Ratio Lower Upper

146 100

111 46.7 23.4 70.3

148 63.5 31.6 94.7





#77

1,2-Dichlorobenzene

Concen: 14.497 ppbv

RT: 11.947 min Scan# 3662

Delta R.T. 0.006 min

Lab File: VL042533.D

Acq: 12 May 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

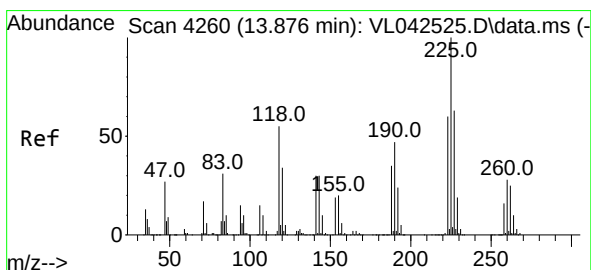
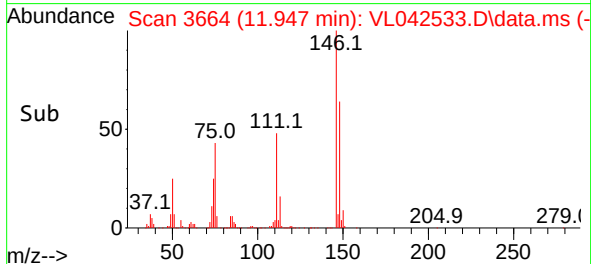
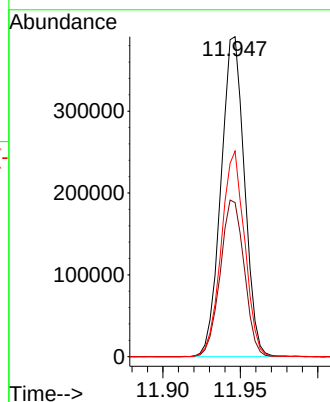
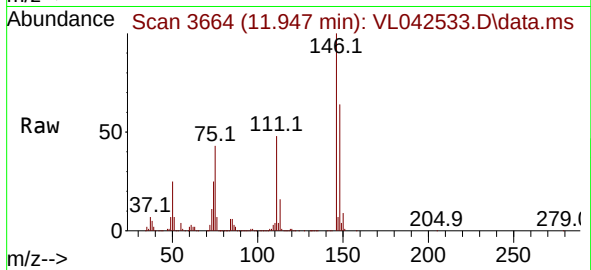
Tgt Ion:146 Resp: 41245

Ion	Ratio	Lower	Upper
146	100		
111	50.0	24.9	74.8
148	64.1	31.4	94.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#78

Hexachloro-1,3-Butadiene

Concen: 13.928 ppbv

RT: 13.879 min Scan# 4261

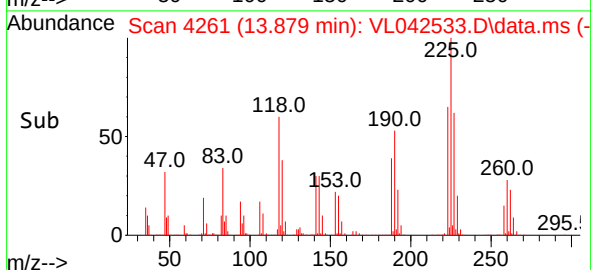
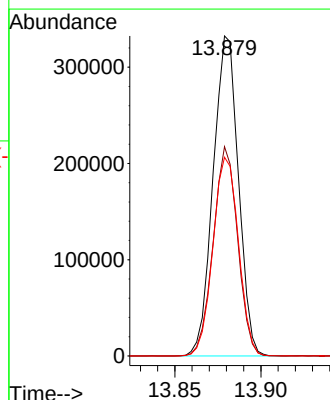
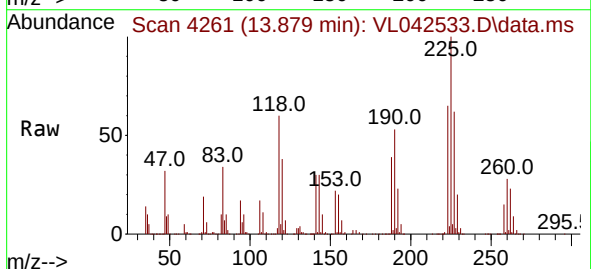
Delta R.T. 0.003 min

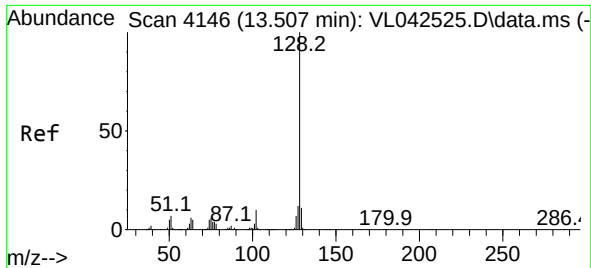
Lab File: VL042533.D

Acq: 12 May 2025 14:28

Tgt Ion:225 Resp: 339749

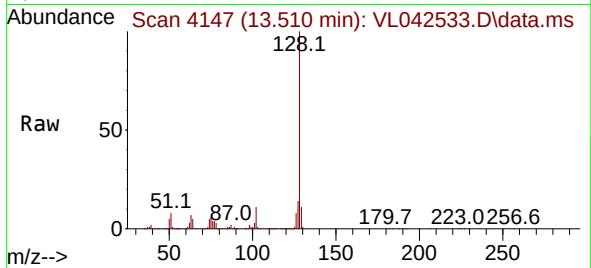
Ion	Ratio	Lower	Upper
225	100		
223	63.2	50.8	76.2
227	62.8	50.5	75.7





#79
Naphthalene
Concen: 23.333 ppbv
RT: 13.510 min Scan# 4146
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28

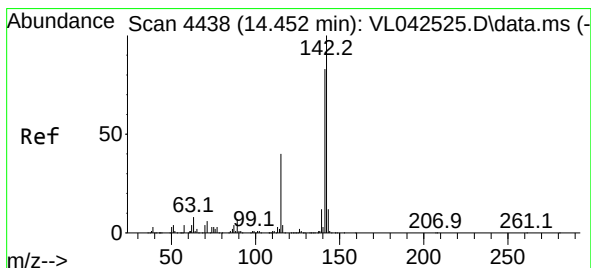
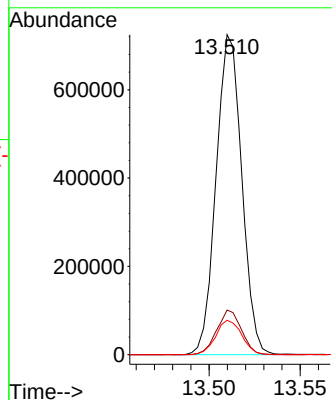
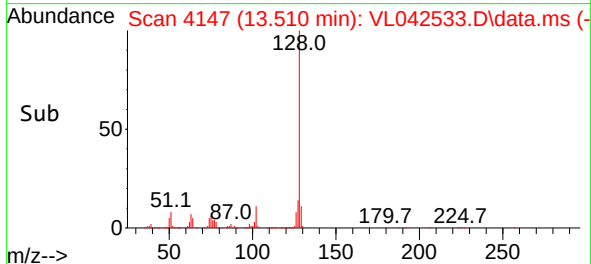
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



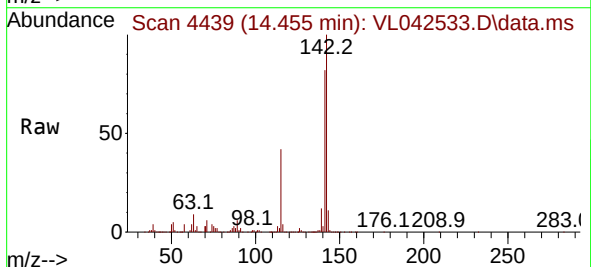
Tgt Ion:128 Resp: 708419
Ion Ratio Lower Upper
128 100
127 13.9 9.8 14.8
129 10.8 8.6 12.8

Manual Integrations
APPROVED

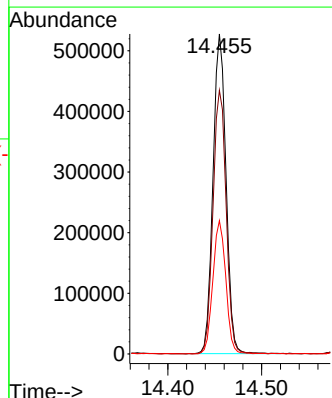
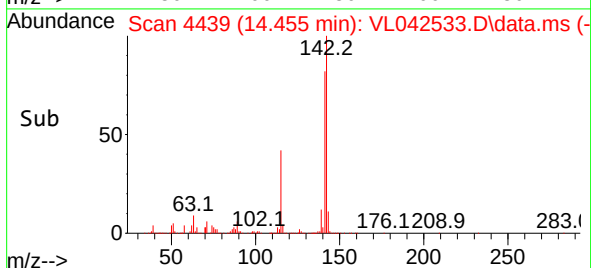
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

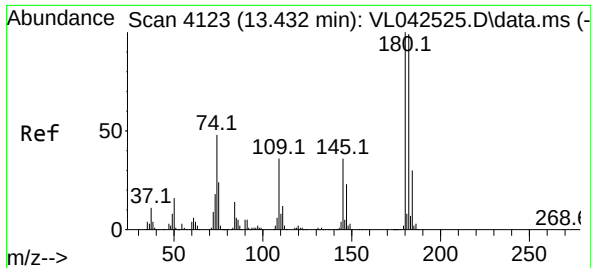


#80
Naphthalene,2-methyl-
Concen: 28.683 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.003 min
Lab File: VL042533.D
Acq: 12 May 2025 14:28



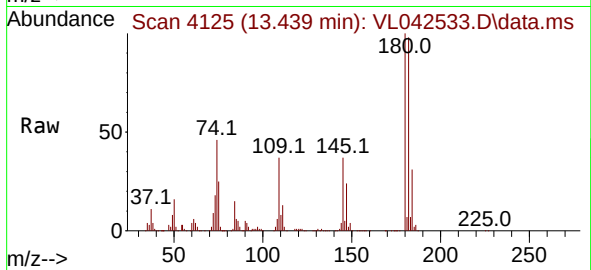
Tgt Ion:142 Resp: 506723
Ion Ratio Lower Upper
142 100
141 84.2 66.8 100.2
115 41.6 33.0 49.6





#81
 1,2,4-Trichlorobenzene
 Concen: 19.904 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL042533.D
 Acq: 12 May 2025 14:28

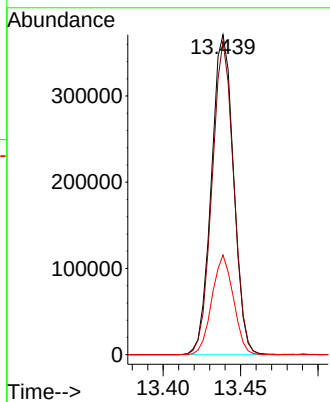
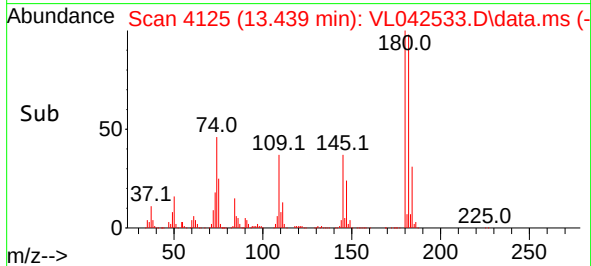
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion:180 Resp: 368964
 Ion Ratio Lower Upper
 180 100
 182 95.7 76.6 114.8
 184 30.2 24.6 36.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042534.D
 Acq On : 12 May 2025 16:10
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051225

Quant Time: May 13 02:12:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue May 13 02:07:03 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 05/14/2025
 Supervised By : Mahesh Dadoda 05/14/2025

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

Internal Standards						
1) Bromochloromethane	2.781	49	104793	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	308722	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	276426	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	237168	9.861	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	169352	9.952	ppbv	99
3) Chlorodifluoromethane	1.473	51	179743	10.365	ppbv	99
4) Chloromethane	1.528	50	67307	9.691	ppbv	99
5) Vinyl Chloride	1.577	62	65875	9.270	ppbv	98
6) Bromomethane	1.664	94	33010	9.781	ppbv	96
7) Chloroethane	1.700	64	25071	8.935	ppbv	98
8) Dichlorotetrafluoroethane	1.551	85	141921	9.693	ppbv	99
9) Propene	1.479	41	37590m	9.995	ppbv	
10) Heptane	4.972	43	176857	12.306	ppbv	98
11) Trichlorofluoromethane	1.871	101	160862	9.828	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.133	101	130708	9.942	ppbv	98
13) Ethanol	1.716	45	7859	7.769	ppbv	97
14) Bromoethene	1.777	108	49763	10.383	ppbv	97
15) Acetone	1.832	43	140624	8.325	ppbv	99
16) 1,3-Butadiene	1.606	39	74698	9.920	ppbv	98
17) tert-Butyl alcohol	2.036	59	160597	10.379	ppbv	99
18) 1,1-Dichloroethene	2.030	96	57778	10.028	ppbv	93
19) Isopropyl Alcohol	1.881	45	91861	10.098	ppbv	100
20) Methylene Chloride	2.056	84	50836	8.718	ppbv	97
21) Allyl Chloride	2.091	41	113385	10.227	ppbv	97
22) trans-1,2-Dichloroethene	2.334	96	66384	9.849	ppbv	96
23) Vinyl Acetate	2.457	43	181814	10.371	ppbv #	97
24) 1,1-Dichloroethane	2.402	63	129353	9.919	ppbv	99
25) Ethyl Acetate	2.832	43	335010	11.394	ppbv	99
26) Hexane	2.819	57	145797	12.078	ppbv	98
27) Carbon Disulfide	2.146	76	159609	10.243	ppbv	98
28) Methyl tert-Butyl Ether	2.434	73	71357	10.640	ppbv	98
29) Chloroform	2.842	83	248251	9.916	ppbv	100
30) Cyclohexane	3.849	84	125731	12.687	ppbv	98
31) cis-1,2-Dichloroethene	2.716	61	156337	11.469	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	260615	10.089	ppbv	99
34) 2-Butanone	2.554	43	215548	10.593	ppbv	99
35) Carbon Tetrachloride	3.755	117	275996	9.944	ppbv	99
36) Benzene	3.648	78	302608	11.060	ppbv	95
37) 1,2-Dichloroethane	3.211	62	197759	10.133	ppbv	99
38) Trichloroethene	4.541	130	124443	10.461	ppbv	92
39) 1,2-Dichloropropane	4.308	63	105794	10.381	ppbv	94
40) 1,4-Dioxane	4.577	88	46856	11.326	ppbv #	98
41) Tetrahydrofuran	3.049	42	108235	12.288	ppbv	98
42) Bromodichloromethane	4.480	83	269411	10.344	ppbv	96
43) Methyl Methacrylate	4.875	69	115023	12.553	ppbv	99
44) 2,2,4-Trimethylpentane	4.629	57	488308	11.264	ppbv	99
45) t-1,3-Dichloropropene	6.406	75	145771	12.452	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042534.D
 Acq On : 12 May 2025 16:10
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051225

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

Quant Time: May 13 02:12:03 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

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

QLast Update : Tue May 13 02:07:03 2025

Response via : Initial Calibration

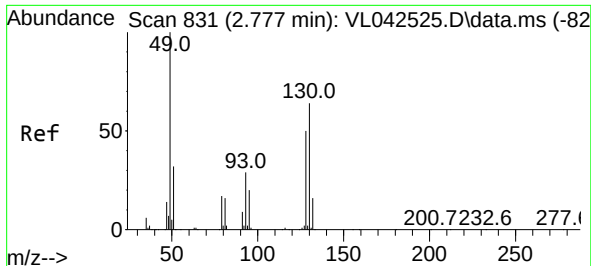
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	173741	12.337	ppbv	89
47) 1,1,2-Trichloroethane	6.574	97	122312	10.192	ppbv	95
48) Dibromochloromethane	7.380	129	213991	10.680	ppbv	99
49) Bromoform	9.480	173	179114	10.893	ppbv	99
50) 4-Methyl-2-Pentanone	5.742	43	283584	11.865	ppbv	100
51) 2-Hexanone	7.428	43	234324	13.181	ppbv #	98
52) Tetrachloroethene	8.218	164	108772	10.391	ppbv	92
53) Toluene	6.927	91	336112	12.519	ppbv	99
54) 1,2-Dibromoethane	7.645	107	185157	10.565	ppbv	93
56) 1,1,1,2-Tetrachloroethane	8.920	131	160912	9.389	ppbv	100
57) Chlorobenzene	8.917	112	274500	9.890	ppbv	94
58) Ethyl Benzene	9.351	91	487590	12.941	ppbv	92
59) m/p-Xylene	9.529	91	803149m	24.002	ppbv	
60) o-Xylene	9.959	91	408333	12.495	ppbv	98
61) Styrene	9.866	104	166262	13.737	ppbv	99
62) Isopropylbenzene	10.536	105	589527	11.978	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	244748	9.228	ppbv	100
64) n-propylbenzene	10.985	120	149858	11.993	ppbv	96
65) tert-Butylbenzene	11.529	119	540642	11.963	ppbv	96
66) Benzyl Chloride	11.610	91	78976	13.151	ppbv	95
67) sec-Butylbenzene	11.765	105	731113	11.283	ppbv	100
69) p-Isopropyltoluene	11.924	119	635040	11.921	ppbv	99
70) n-Butylbenzene	12.277	91	641756	12.192	ppbv	99
71) 2-Chlorotoluene	10.898	91	460416	12.354	ppbv	100
72) 4-Ethyltoluene	11.121	105	504066	12.435	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	420393	11.906	ppbv	97
74) 1,2,4-Trimethylbenzene	11.532	105	477131	10.983	ppbv	91
75) 1,3-Dichlorobenzene	11.604	146	285094	10.479	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	280324	10.829	ppbv	99
77) 1,2-Dichlorobenzene	11.943	146	269510	9.590	ppbv	100
78) Hexachloro-1,3-Butadiene	13.879	225	223250	9.265	ppbv	99
79) Naphthalene	13.510	128	452623	15.035	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	312897	18.008	ppbv	98
81) 1,2,4-Trichlorobenzene	13.436	180	241524	13.190	ppbv	98

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

Manual Integrations APPROVED

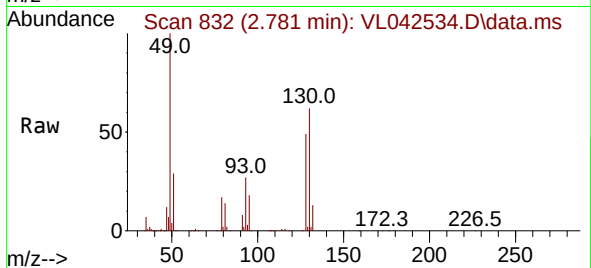
Quant Time: May 13 02:12:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue May 13 02:07:03 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. 0.004 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

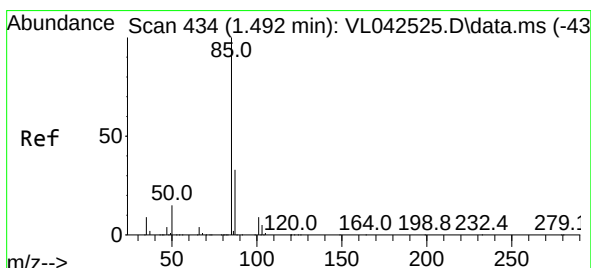
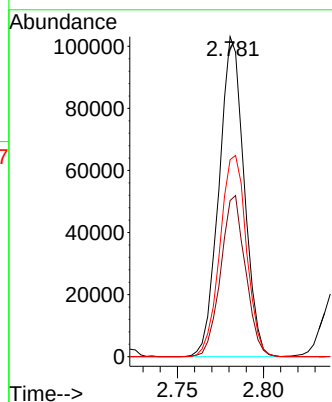
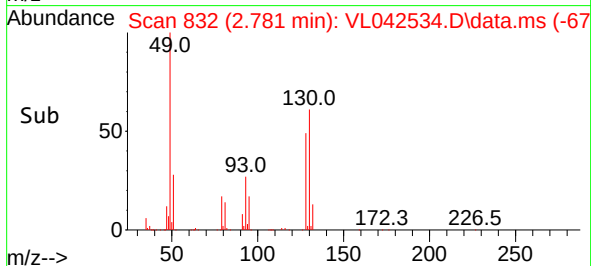
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



Tgt Ion: 49 Resp: 10479
Ion Ratio Lower Upper
49 100
128 49.6 24.9 74.6
130 66.3 32.5 97.5

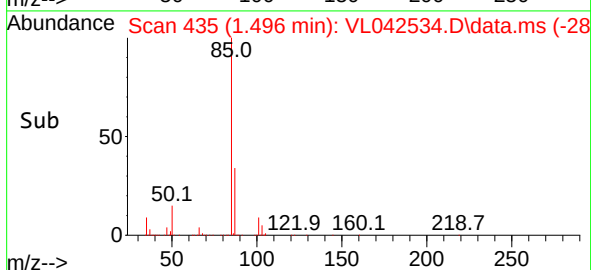
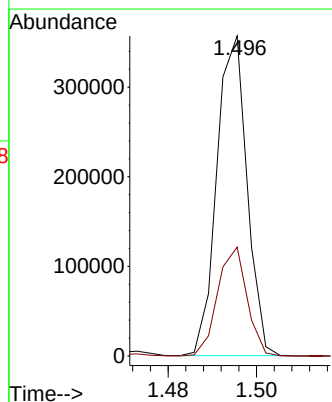
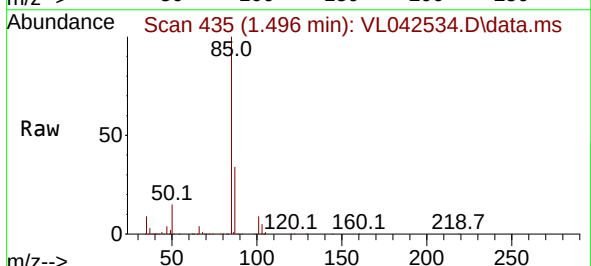
Manual Integrations
APPROVED

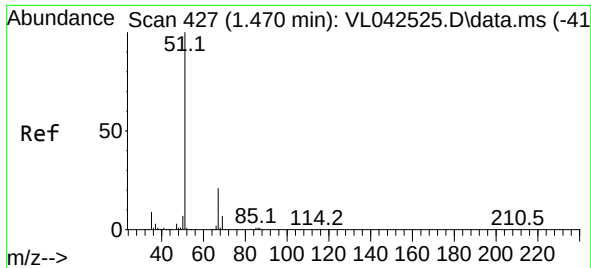
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#2
Dichlorodifluoromethane
Concen: 9.952 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Tgt Ion: 85 Resp: 169352
Ion Ratio Lower Upper
85 100
87 34.0 26.8 40.2





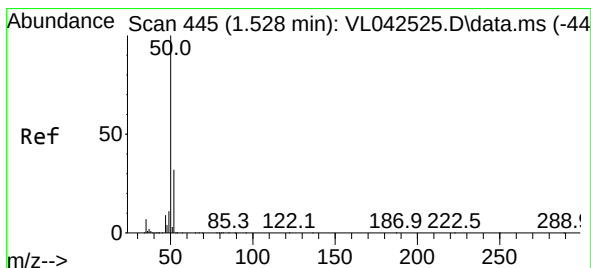
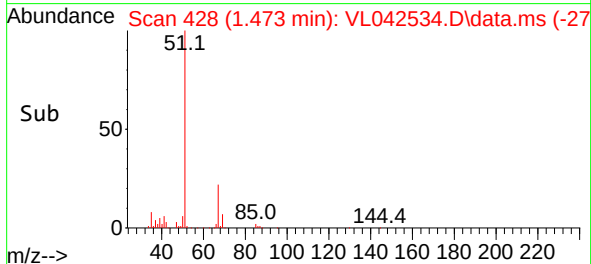
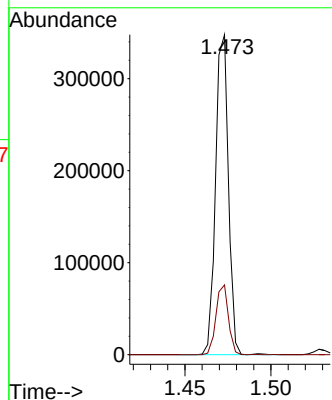
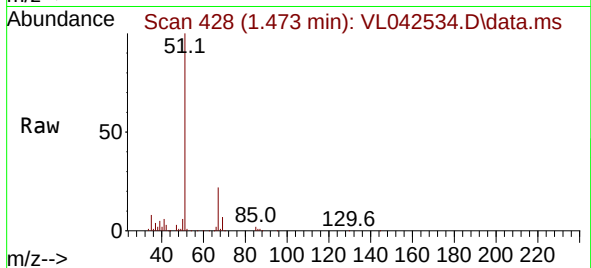
#3
Chlorodifluoromethane
Concen: 10.365 ppbv
RT: 1.473 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225

Tgt Ion: 51 Resp: 17974
Ion Ratio Lower Upper
51 100
67 21.1 17.4 26.0

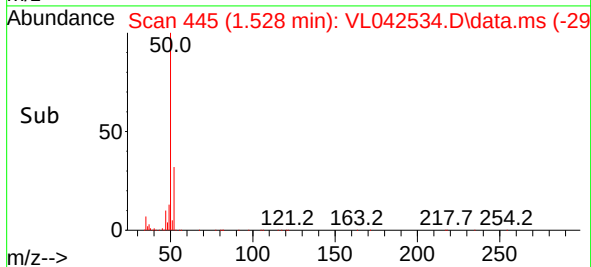
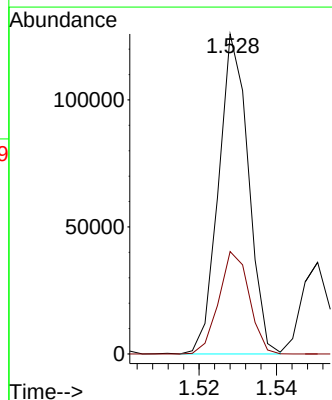
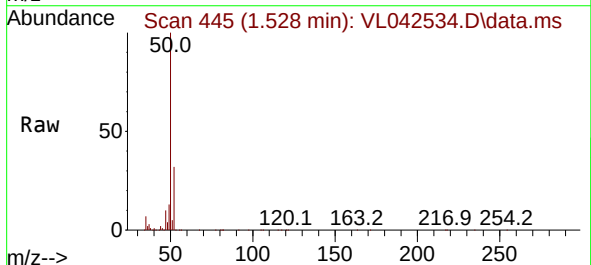
Manual Integrations
APPROVED

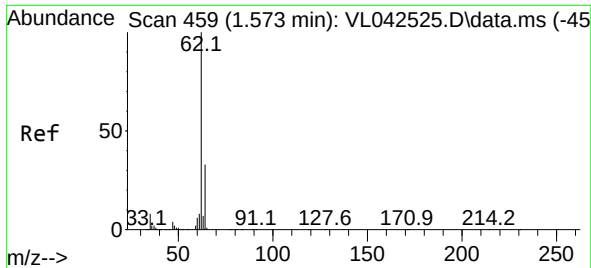
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#4
Chloromethane
Concen: 9.691 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.000 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

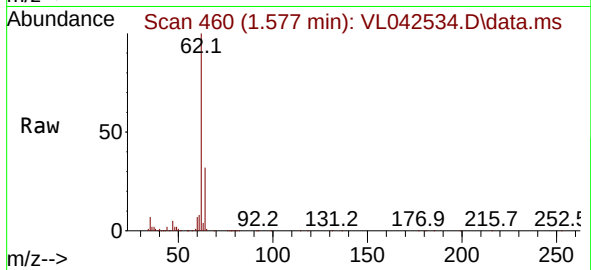
Tgt Ion: 50 Resp: 67307
Ion Ratio Lower Upper
50 100
52 32.0 25.9 38.9





#5
 Vinyl Chloride
 Concen: 9.270 ppbv
 RT: 1.577 min Scan# 459
 Delta R.T. 0.003 min
 Lab File: VL042534.D
 Acq: 12 May 2025 16:10

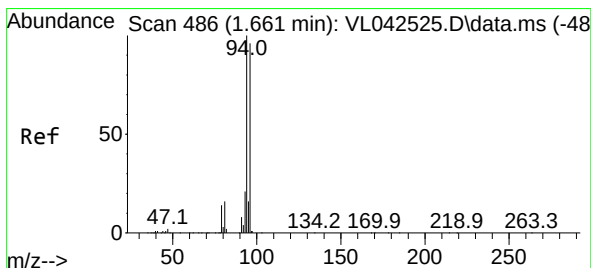
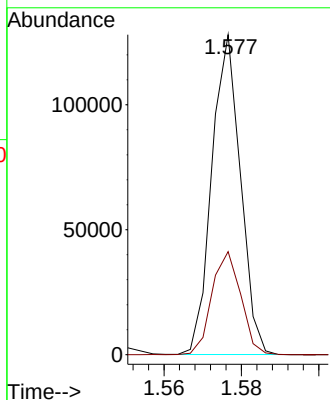
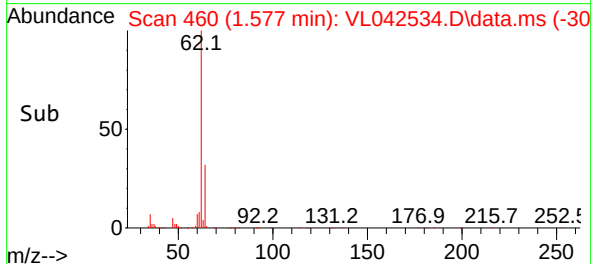
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051225



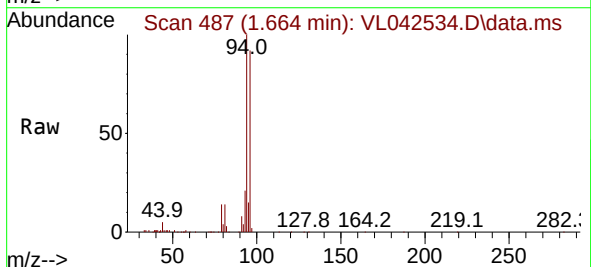
Tgt Ion: 62 Resp: 65879
 Ion Ratio Lower Upper
 62 100
 64 32.2 26.5 39.7

Manual Integrations
 APPROVED

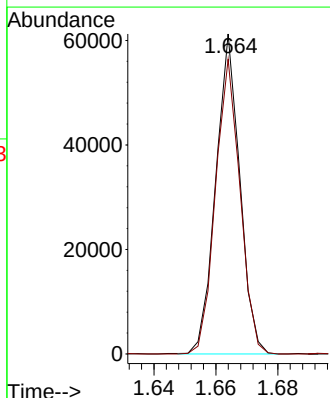
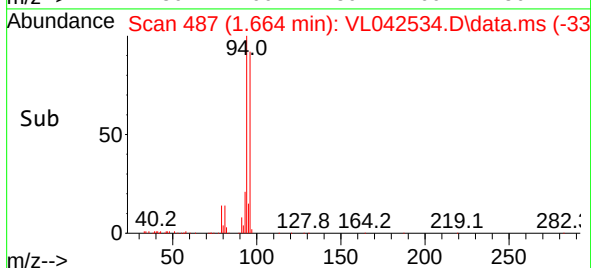
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

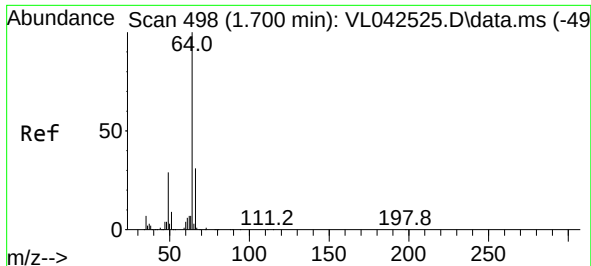


#6
 Bromomethane
 Concen: 9.781 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. 0.003 min
 Lab File: VL042534.D
 Acq: 12 May 2025 16:10



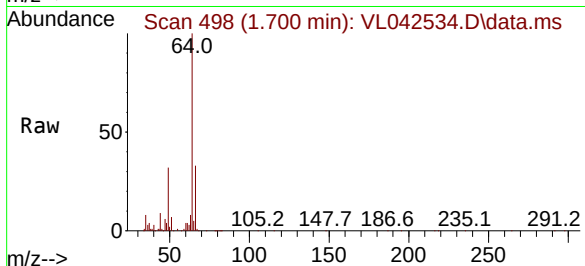
Tgt Ion: 94 Resp: 33010
 Ion Ratio Lower Upper
 94 100
 96 92.1 76.9 115.3





#7
Chloroethane
Concen: 8.935 ppbv
RT: 1.700 min Scan# 498
Delta R.T. -0.000 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

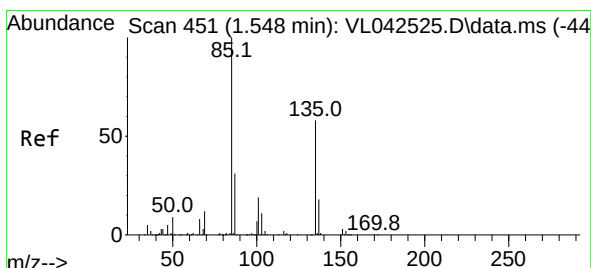
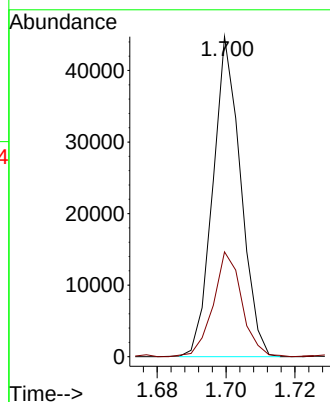
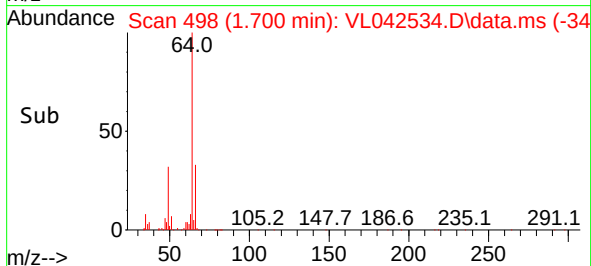
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



Tgt Ion: 64 Resp: 2507
Ion Ratio Lower Upper
64 100
66 32.8 25.1 37.7

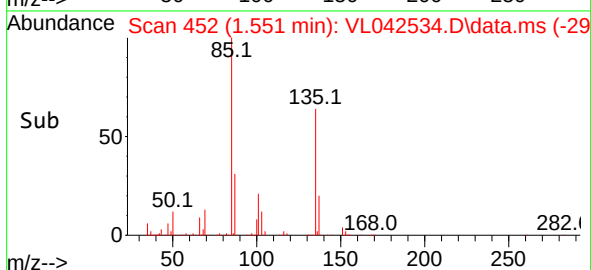
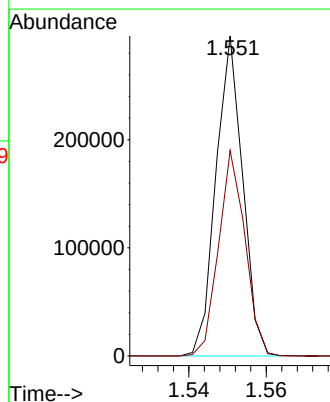
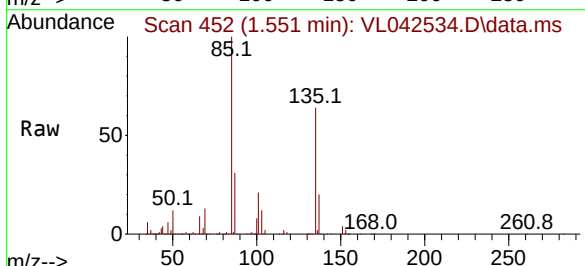
Manual Integrations
APPROVED

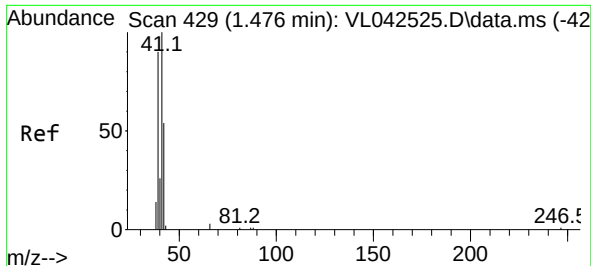
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#8
Dichlorotetrafluoroethane
Concen: 9.693 ppbv
RT: 1.551 min Scan# 452
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

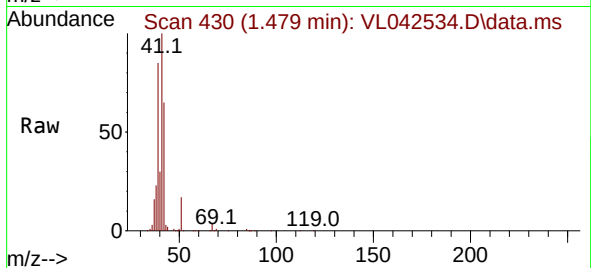
Tgt Ion: 85 Resp: 141921
Ion Ratio Lower Upper
85 100
135 63.7 51.8 77.8





#9
Propene
Concen: 9.995 ppbv m
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

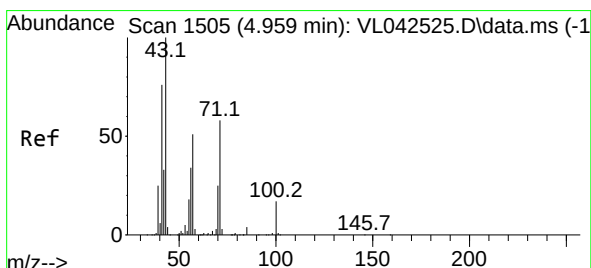
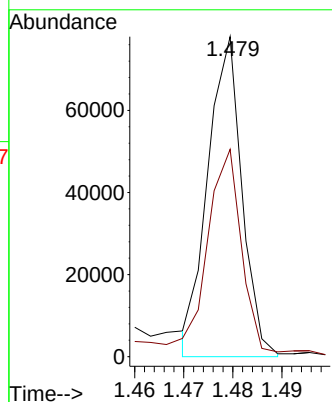
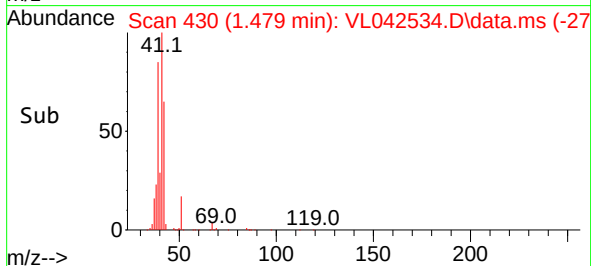
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



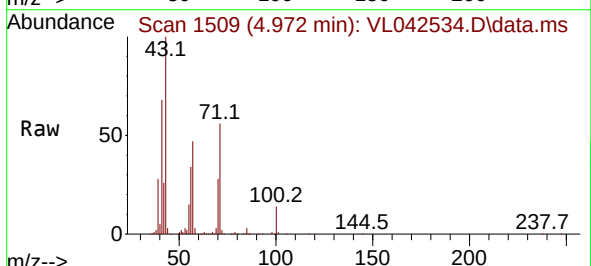
Tgt Ion: 41 Resp: 37590
Ion Ratio Lower Upper
41 100
42 7.2 4.1 6.1

Manual Integrations
APPROVED

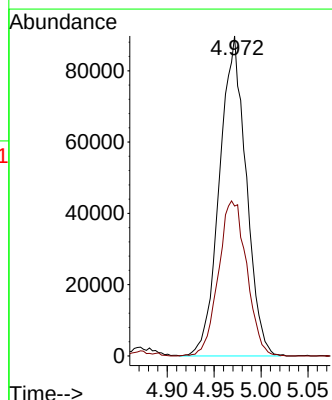
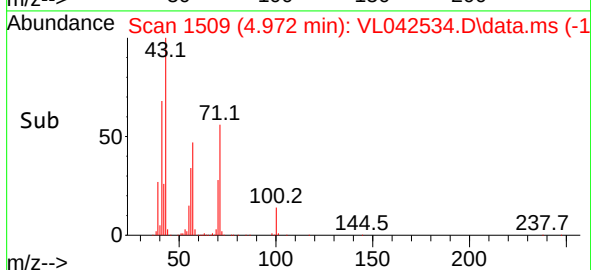
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

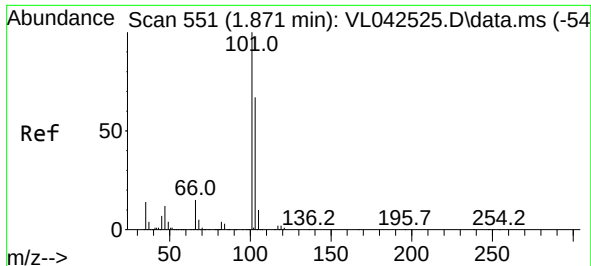


#10
Heptane
Concen: 12.306 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. 0.013 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10



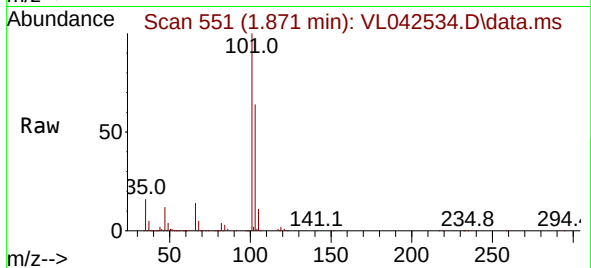
Tgt Ion: 43 Resp: 176857
Ion Ratio Lower Upper
43 100
57 51.4 42.1 63.1





#11
Trichlorofluoromethane
Concen: 9.828 ppbv
RT: 1.871 min Scan# 551
Delta R.T. -0.000 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

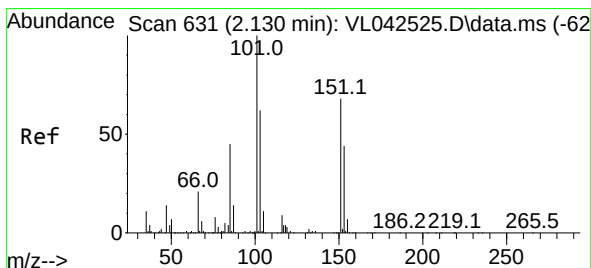
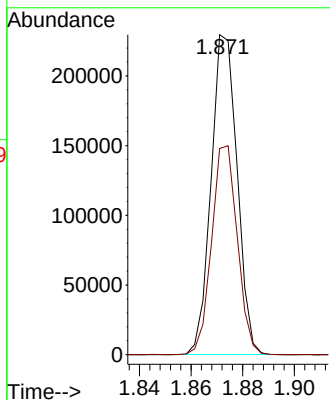
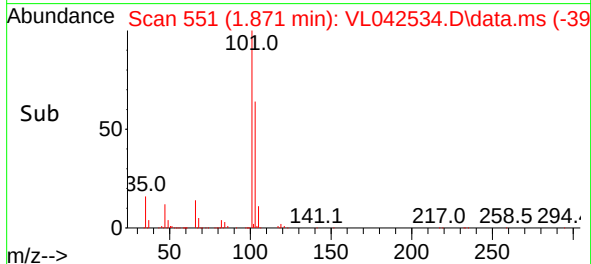
Instrument : MSVOA_L
ClientSampleId : ICVVL051225



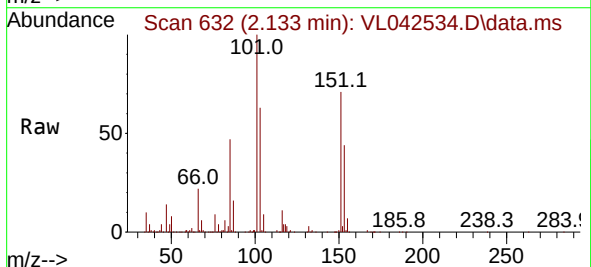
Tgt Ion:101 Resp: 160862
Ion Ratio Lower Upper
101 100
103 64.5 53.8 80.6

Manual Integrations
APPROVED

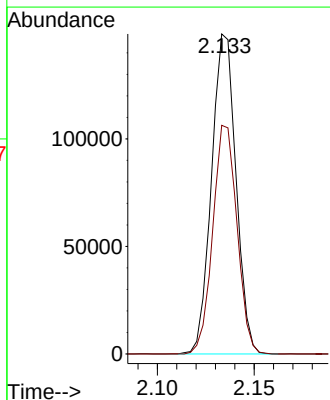
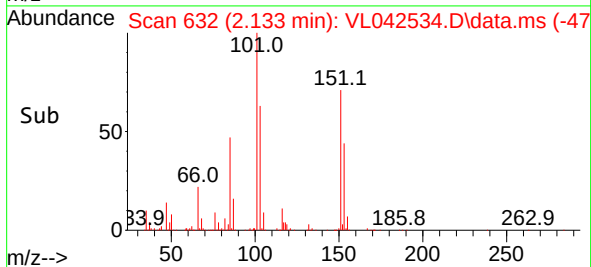
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

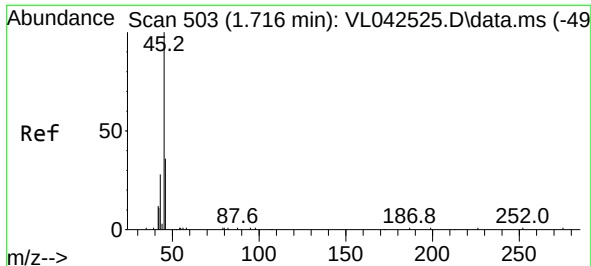


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.942 ppbv
RT: 2.133 min Scan# 632
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10



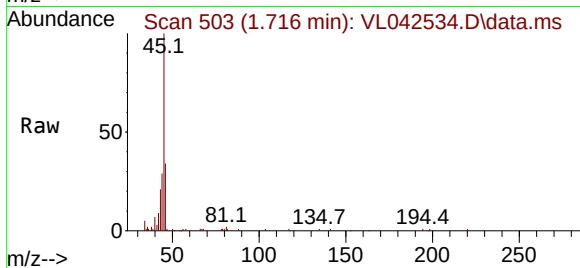
Tgt Ion:101 Resp: 130708
Ion Ratio Lower Upper
101 100
151 70.7 57.8 86.8





#13
Ethanol
Concen: 7.769 ppbv
RT: 1.716 min Scan# 503
Delta R.T. -0.000 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

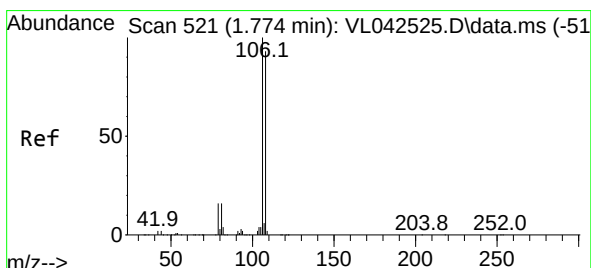
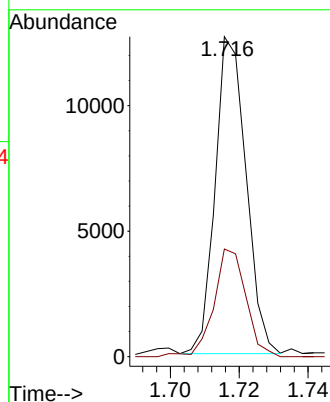
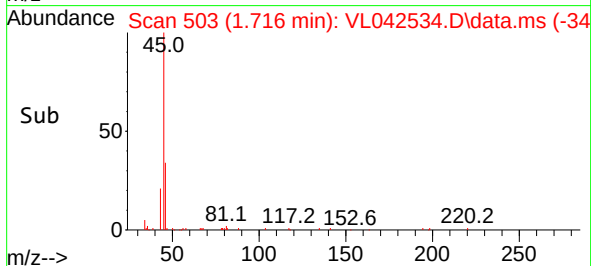
Instrument : MSVOA_L
ClientSampleId : ICVVL051225



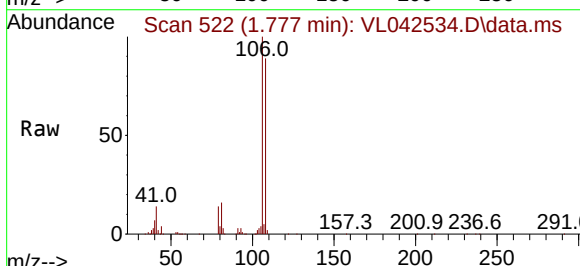
Tgt Ion: 45 Resp: 7859
Ion Ratio Lower Upper
45 100
46 35.4 14.8 59.4

Manual Integrations
APPROVED

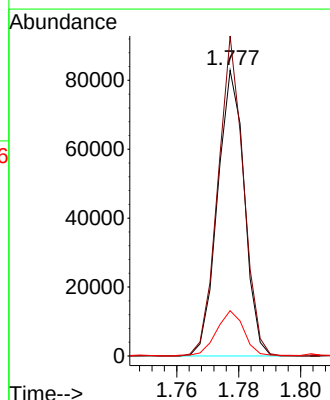
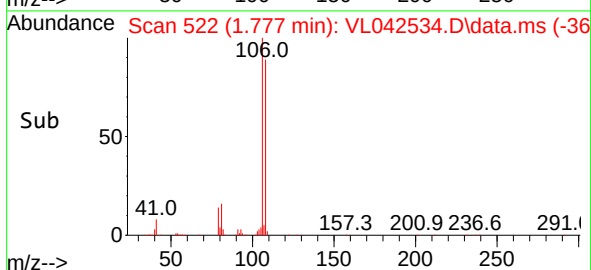
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

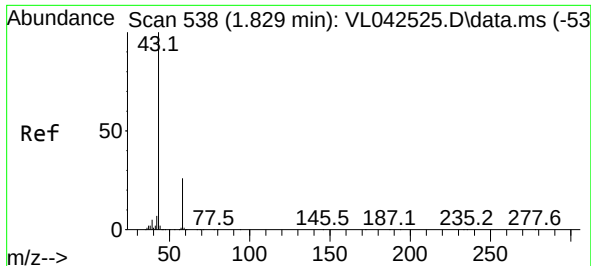


#14
Bromoethene
Concen: 10.383 ppbv
RT: 1.777 min Scan# 522
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10



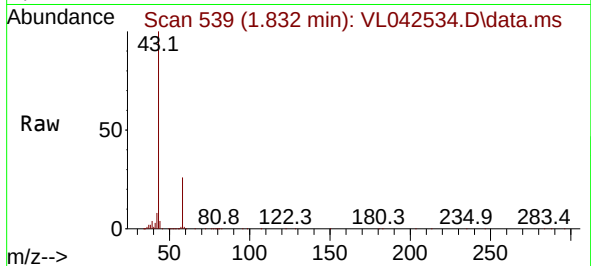
Tgt Ion:108 Resp: 49763
Ion Ratio Lower Upper
108 100
106 106.9 87.4 131.2
79 16.0 15.1 22.7





#15
Acetone
Concen: 8.325 ppbv
RT: 1.832 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

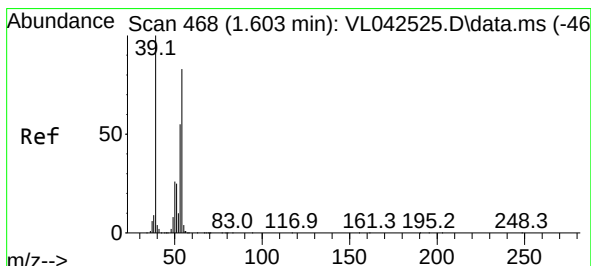
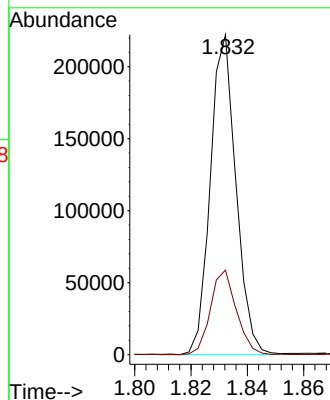
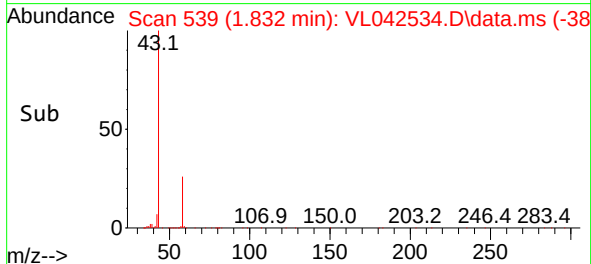
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



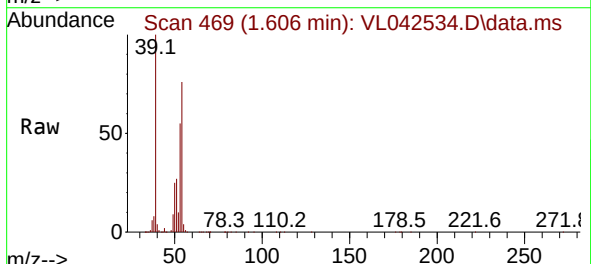
Tgt Ion: 43 Resp: 140624
Ion Ratio Lower Upper
43 100
58 26.9 21.3 31.9

Manual Integrations
APPROVED

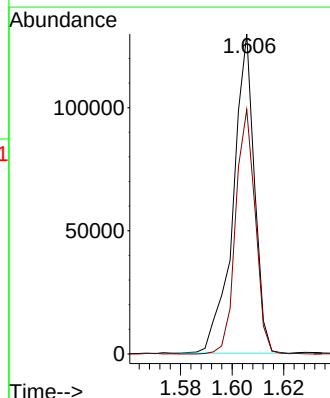
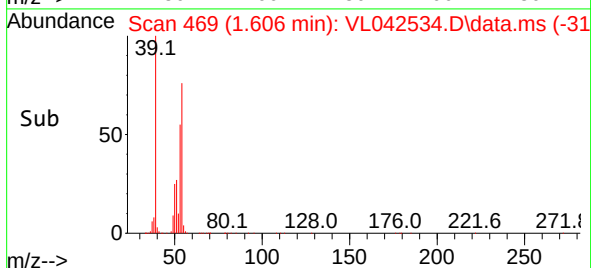
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

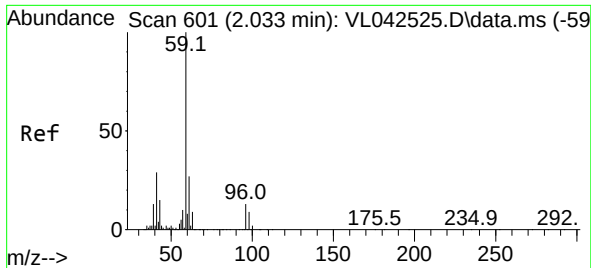


#16
1,3-Butadiene
Concen: 9.920 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10



Tgt Ion: 39 Resp: 74698
Ion Ratio Lower Upper
39 100
54 70.3 57.8 86.6





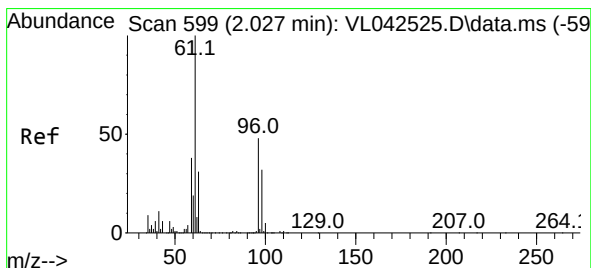
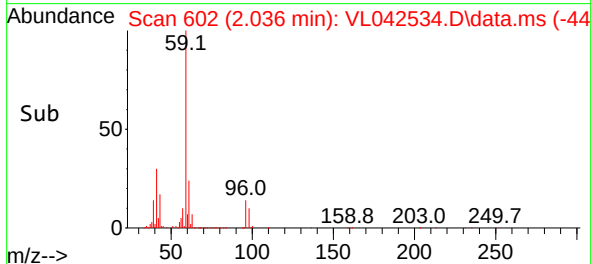
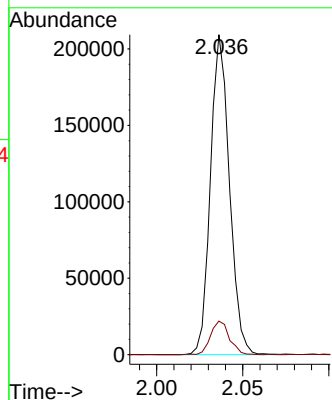
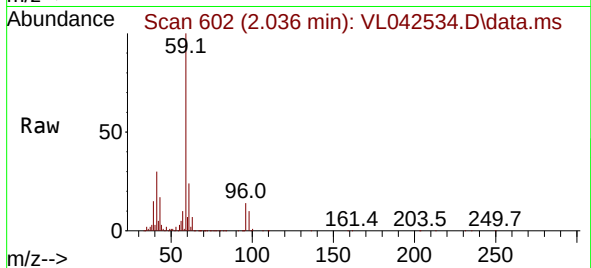
#17
tert-Butyl alcohol
Concen: 10.379 ppbv
RT: 2.036 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225

Tgt Ion: 59 Resp: 160597
Ion Ratio Lower Upper
59 100
57 10.5 8.2 12.4

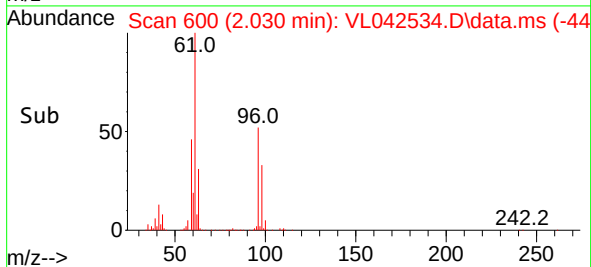
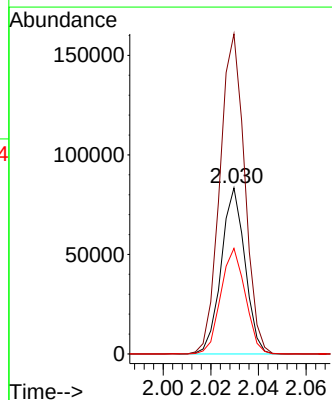
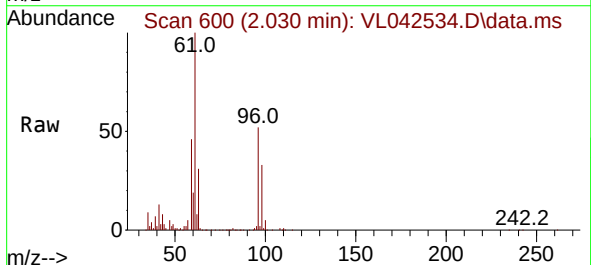
Manual Integrations
APPROVED

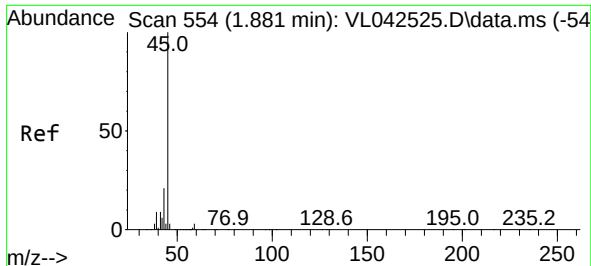
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#18
1,1-Dichloroethene
Concen: 10.028 ppbv
RT: 2.030 min Scan# 600
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

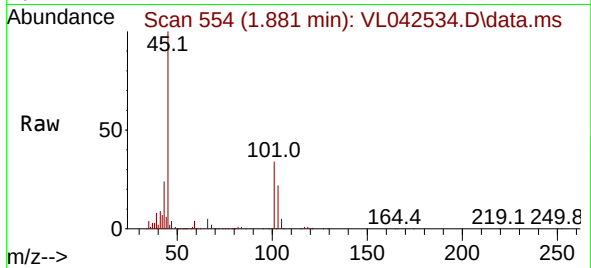
Tgt Ion: 96 Resp: 57778
Ion Ratio Lower Upper
96 100
61 192.6 165.0 247.4
98 63.4 52.6 79.0





#19
Isopropyl Alcohol
Concen: 10.098 ppbv
RT: 1.881 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

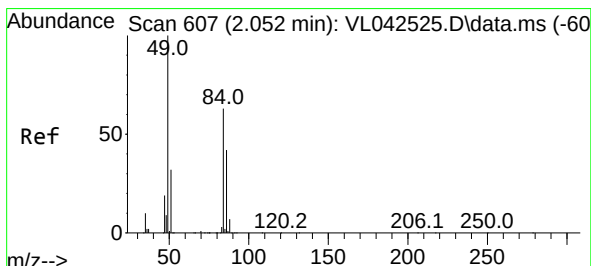
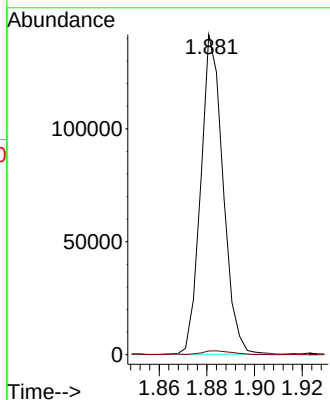
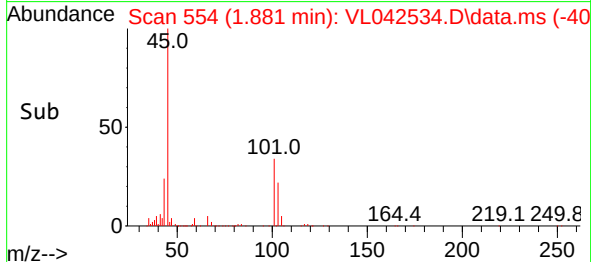
Instrument : MSVOA_L
ClientSampleId : ICVVL051225



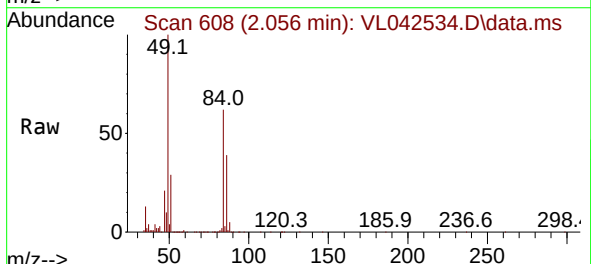
Tgt Ion: 45 Resp: 9186
Ion Ratio Lower Upper
45 100
58 1.9 1.5 2.3

Manual Integrations
APPROVED

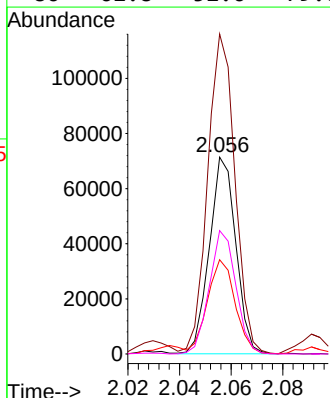
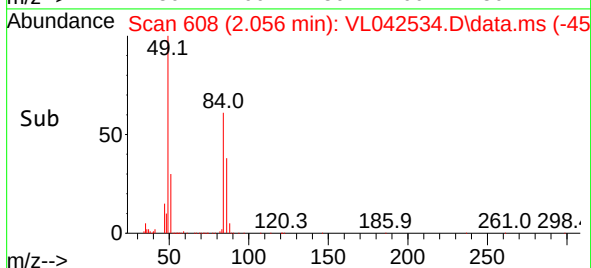
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

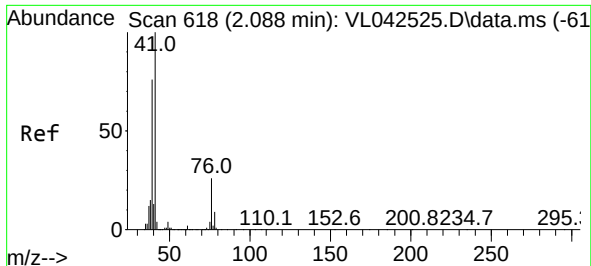


#20
Methylene Chloride
Concen: 8.718 ppbv
RT: 2.056 min Scan# 608
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10



Tgt Ion: 84 Resp: 50836
Ion Ratio Lower Upper
84 100
49 162.7 128.2 192.4
51 47.7 41.7 62.5
86 62.8 52.6 79.0





#21

Allyl Chloride

Concen: 10.227 ppbv

RT: 2.091 min Scan# 618

Delta R.T. 0.003 min

Lab File: VL042534.D

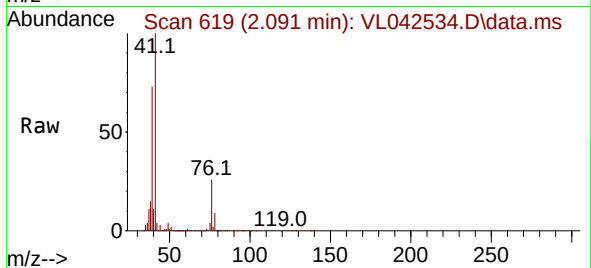
Acq: 12 May 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051225

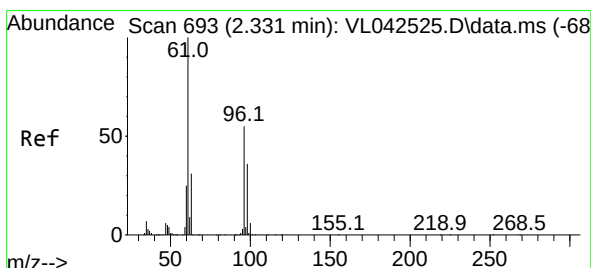
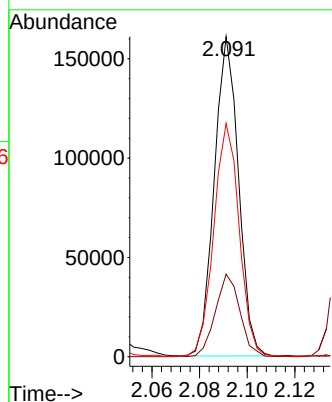
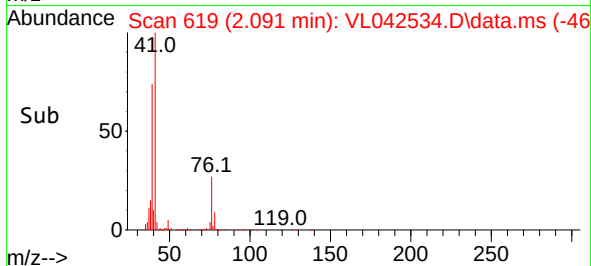


Tgt Ion:	41	Resp:	11338
Ion Ratio	Lower	Upper	
41	100		
76	26.3	22.0	33.0
39	76.7	59.5	89.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#22

trans-1,2-Dichloroethene

Concen: 9.849 ppbv

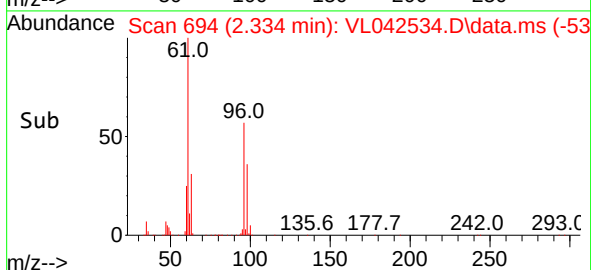
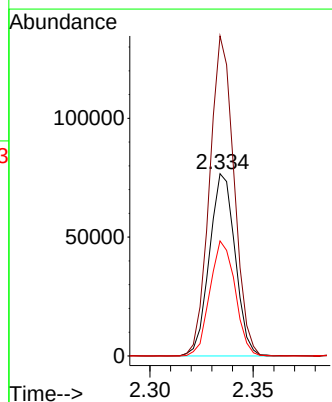
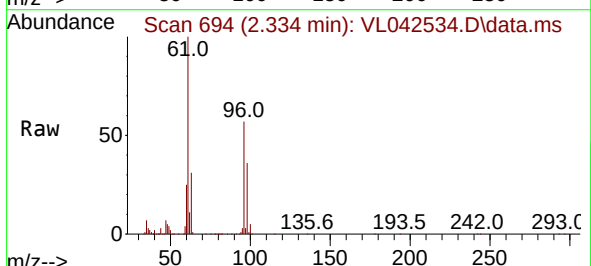
RT: 2.334 min Scan# 694

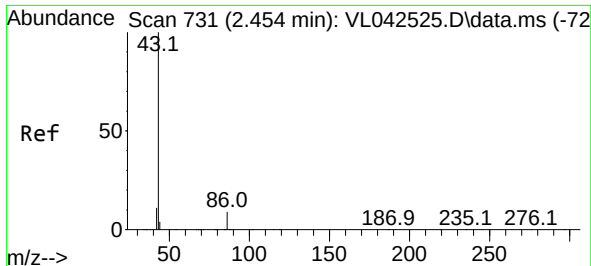
Delta R.T. 0.003 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Tgt Ion:	96	Resp:	66384
Ion Ratio	Lower	Upper	
96	100		
61	175.4	145.9	218.9
98	63.2	52.2	78.4





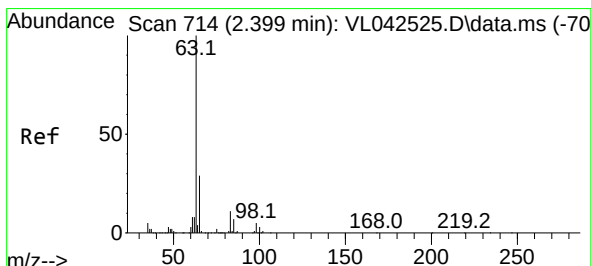
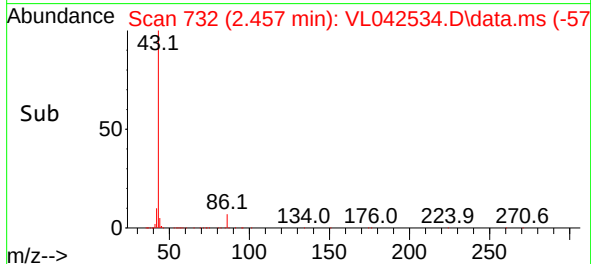
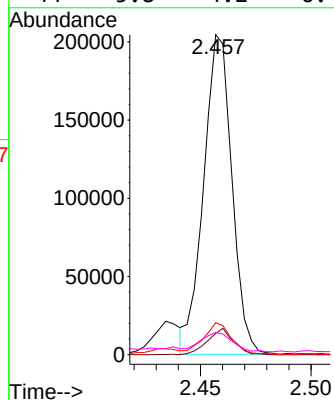
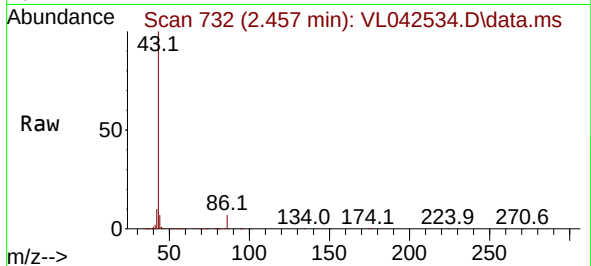
#23
 Vinyl Acetate
 Concen: 10.371 ppbv
 RT: 2.457 min Scan# 714
 Delta R.T. 0.003 min
 Lab File: VL042534.D
 Acq: 12 May 2025 16:10

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051225

Tgt Ion: 43 Resp: 181814
 Ion Ratio Lower Upper
 43 100
 86 6.7 6.8 10.2
 42 10.0 8.8 13.2
 44 5.8 4.2 6.4

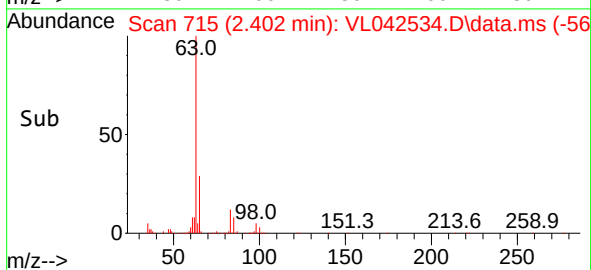
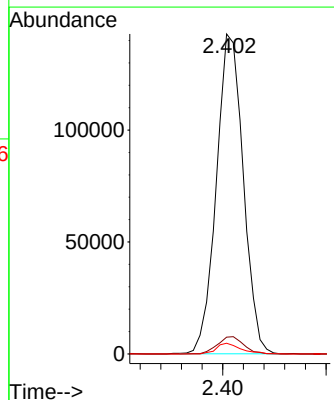
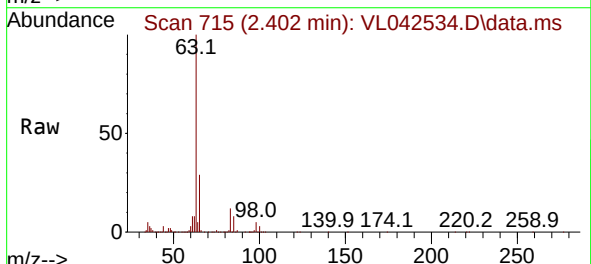
Manual Integrations
 APPROVED

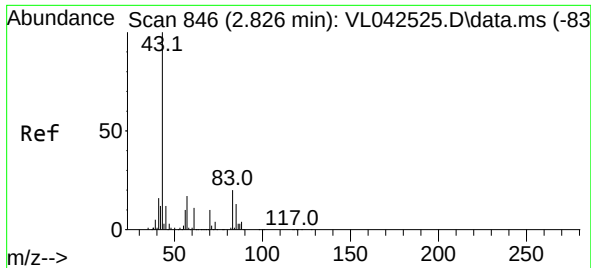
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



#24
 1,1-Dichloroethane
 Concen: 9.919 ppbv
 RT: 2.402 min Scan# 715
 Delta R.T. 0.003 min
 Lab File: VL042534.D
 Acq: 12 May 2025 16:10

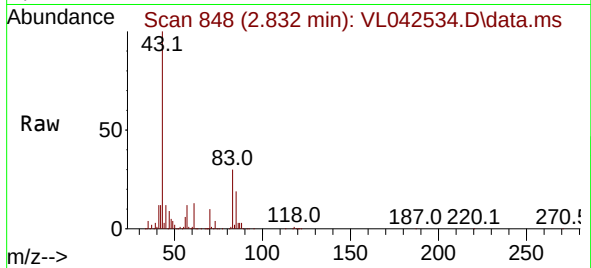
Tgt Ion: 63 Resp: 129353
 Ion Ratio Lower Upper
 63 100
 98 5.3 2.6 8.0
 100 3.4 1.4 4.2





#25
Ethyl Acetate
Concen: 11.394 ppbv
RT: 2.832 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225

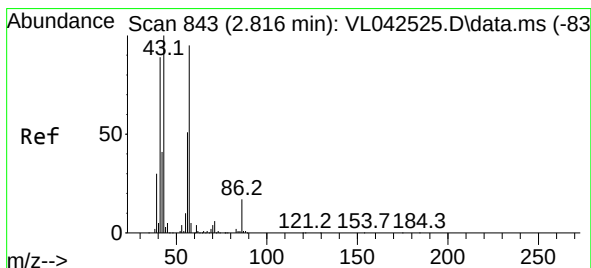
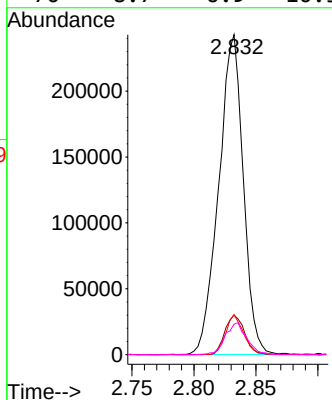


Tgt Ion: 43 Resp: 335010

Ion	Ratio	Lower	Upper
43	100		
45	10.1	7.9	11.9
61	9.3	7.1	10.7
70	8.7	6.9	10.3

Manual Integrations
APPROVED

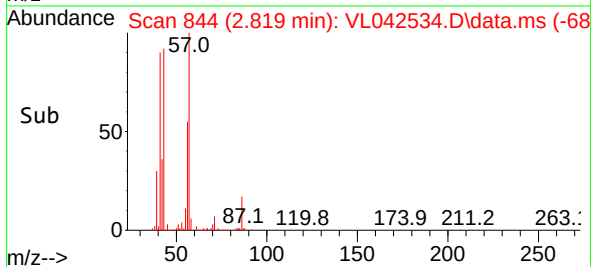
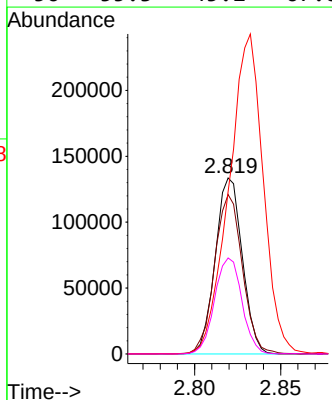
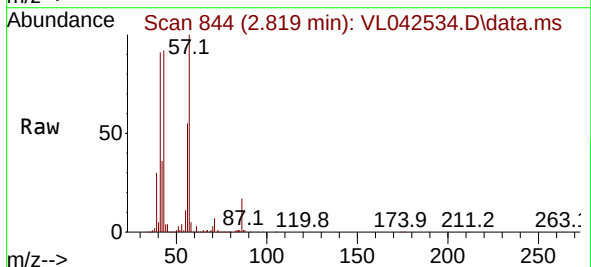
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

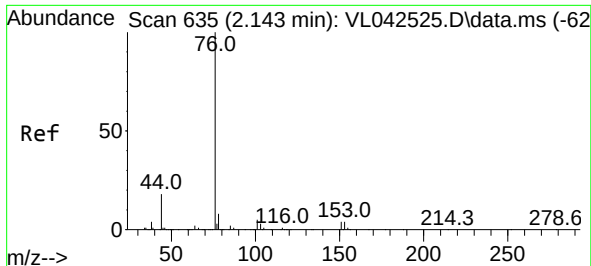


#26
Hexane
Concen: 12.078 ppbv
RT: 2.819 min Scan# 844
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Tgt Ion: 57 Resp: 145797

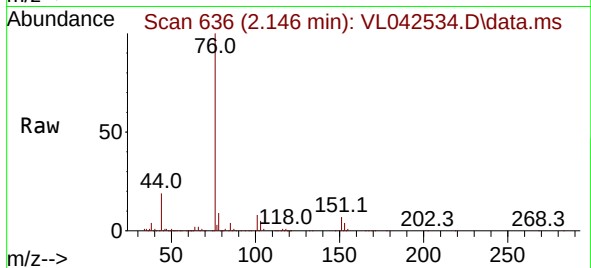
Ion	Ratio	Lower	Upper
57	100		
41	93.6	76.1	114.1
43	231.0	188.9	283.3
56	55.3	45.2	67.8





#27
Carbon Disulfide
Concen: 10.243 ppbv
RT: 2.146 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

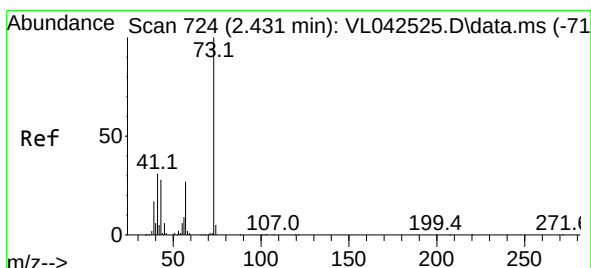
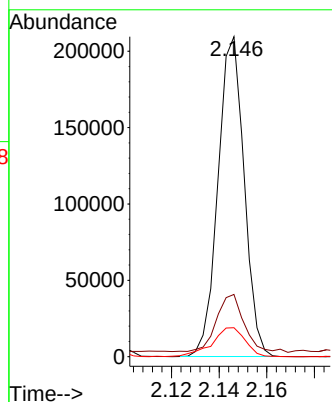
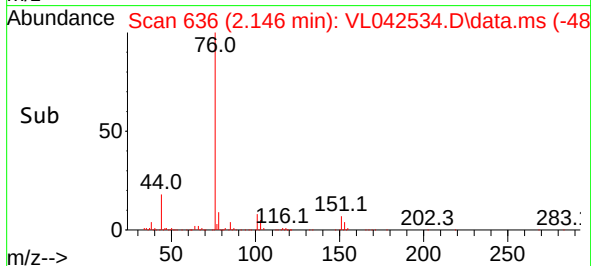
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



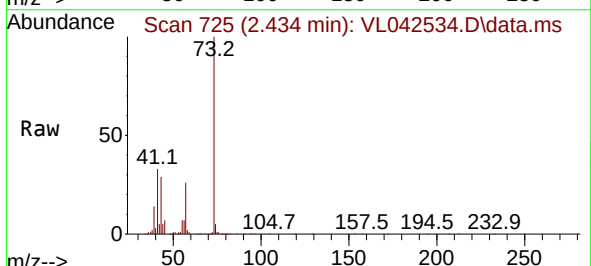
Tgt Ion: 76 Resp: 159609
Ion Ratio Lower Upper
76 100
44 20.5 17.1 25.7
78 11.6 8.6 12.8

Manual Integrations
APPROVED

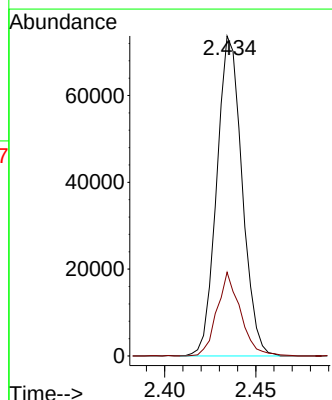
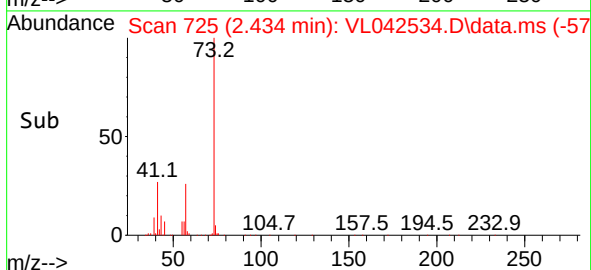
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

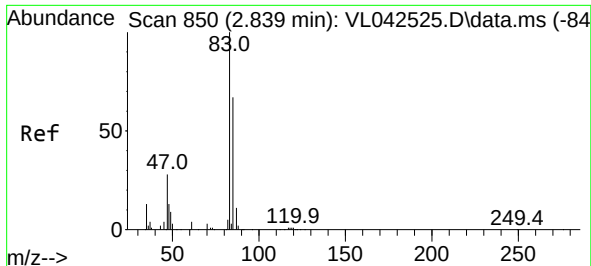


#28
Methyl tert-Butyl Ether
Concen: 10.640 ppbv
RT: 2.434 min Scan# 725
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10



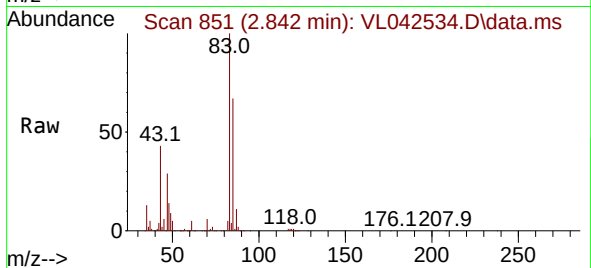
Tgt Ion: 73 Resp: 71357
Ion Ratio Lower Upper
73 100
57 24.4 20.3 30.5





#29
Chloroform
Concen: 9.916 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

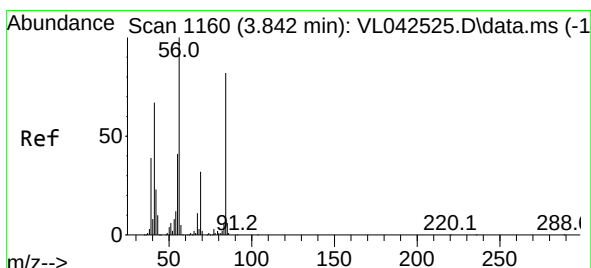
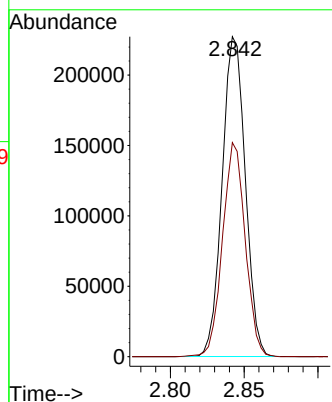
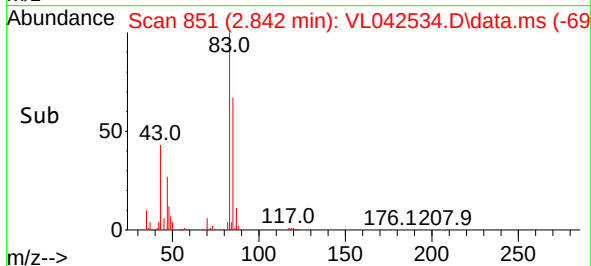
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



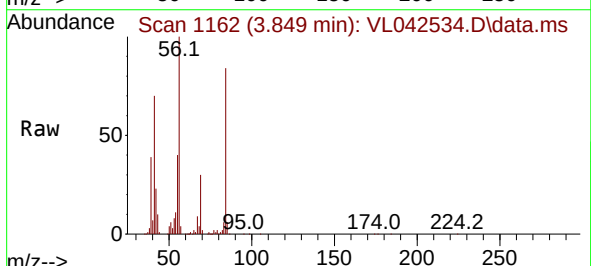
Tgt Ion: 83 Resp: 24825
Ion Ratio Lower Upper
83 100
85 66.9 53.5 80.3

Manual Integrations
APPROVED

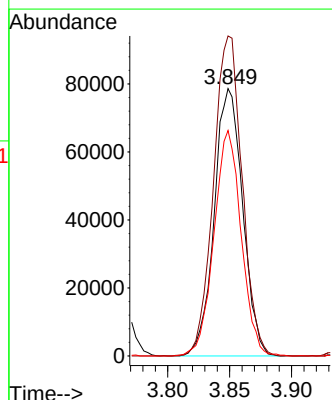
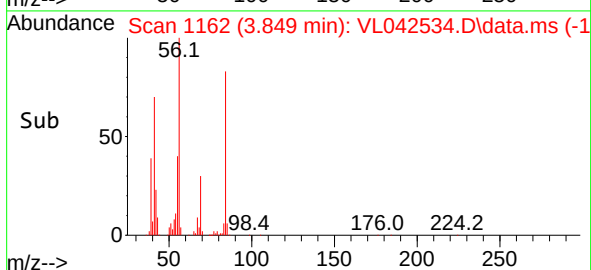
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

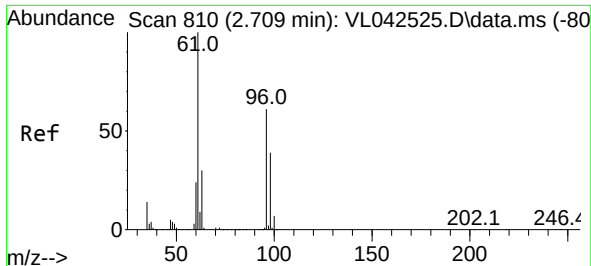


#30
Cyclohexane
Concen: 12.687 ppbv
RT: 3.849 min Scan# 1162
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10



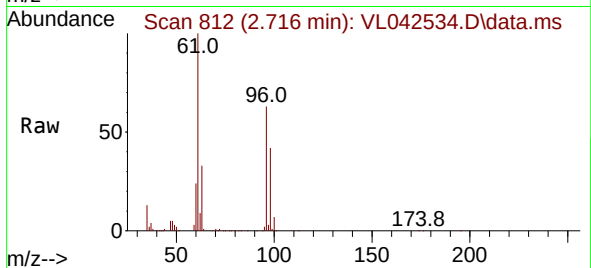
Tgt Ion: 84 Resp: 125731
Ion Ratio Lower Upper
84 100
56 120.5 97.1 145.7
41 80.8 66.6 99.8





#31
 cis-1,2-Dichloroethene
 Concen: 11.469 ppbv
 RT: 2.716 min Scan# 810
 Delta R.T. 0.006 min
 Lab File: VL042534.D
 Acq: 12 May 2025 16:10

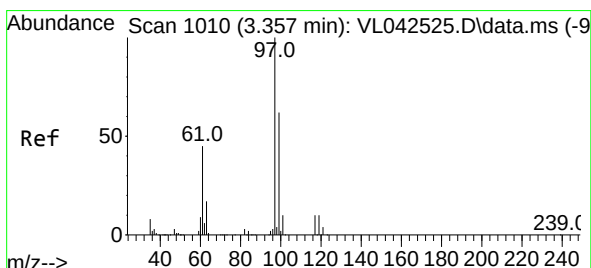
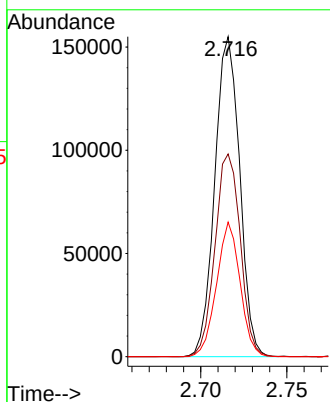
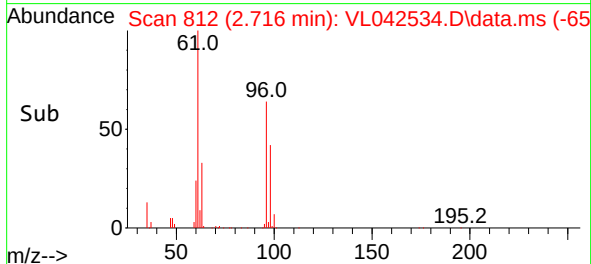
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051225



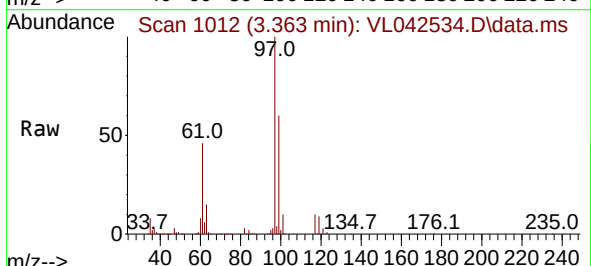
Tgt Ion: 61 Resp: 15633
 Ion Ratio Lower Upper
 61 100
 96 63.4 48.9 73.3
 98 42.1 31.4 47.2

Manual Integrations
 APPROVED

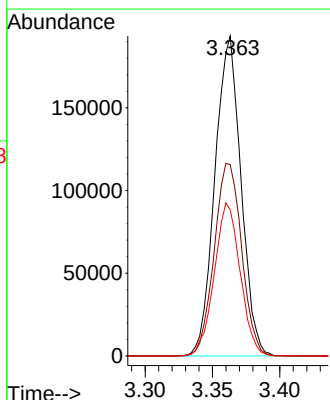
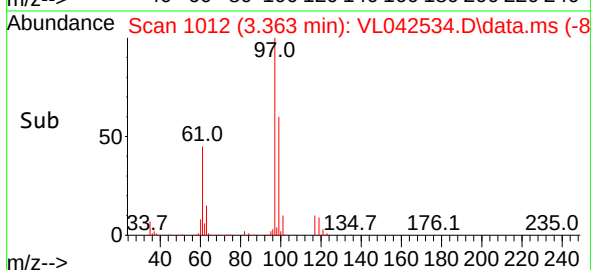
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

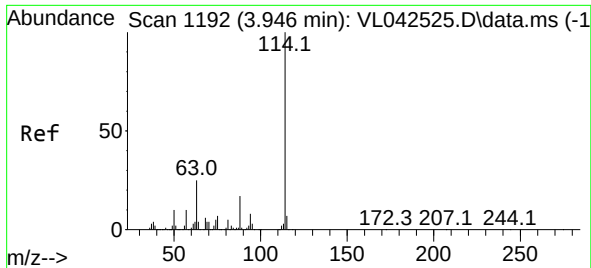


#32
 1,1,1-Trichloroethane
 Concen: 10.089 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. 0.006 min
 Lab File: VL042534.D
 Acq: 12 May 2025 16:10



Tgt Ion: 97 Resp: 260615
 Ion Ratio Lower Upper
 97 100
 99 63.2 50.1 75.1
 61 47.6 38.2 57.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. 0.006 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

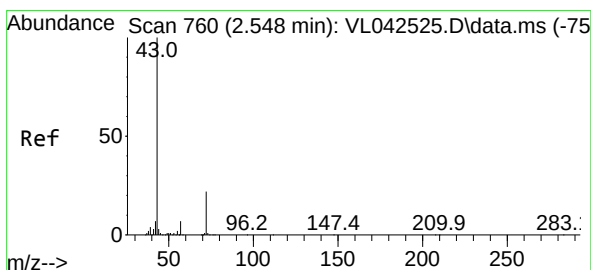
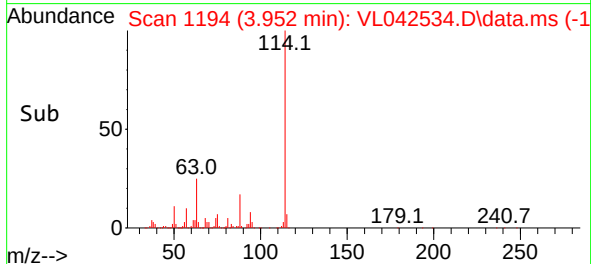
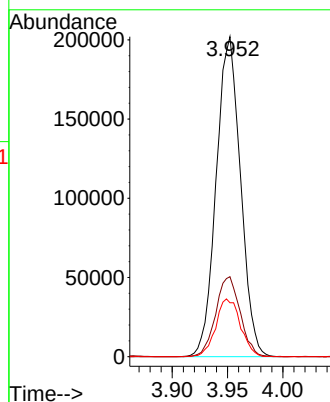
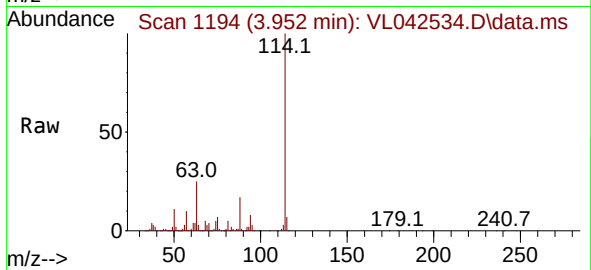
ICVVL051225

Tgt Ion:	114	Resp:	30872
Ion Ratio	Lower	Upper	
114	100		
63	25.2	20.4	30.6
88	18.3	14.5	21.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#34

2-Butanone

Concen: 10.593 ppbv

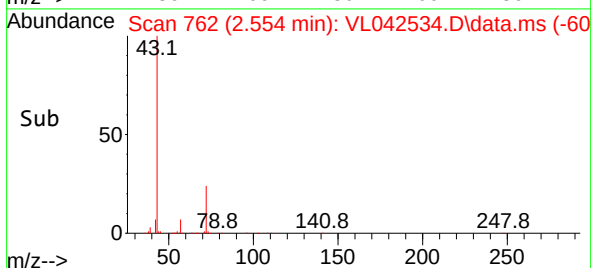
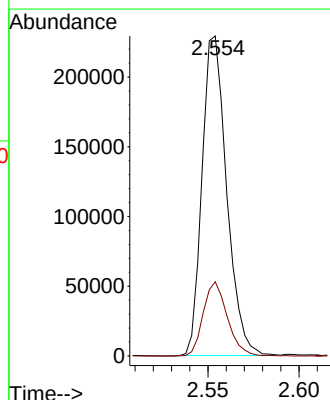
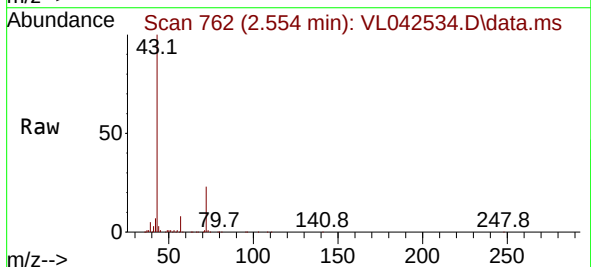
RT: 2.554 min Scan# 762

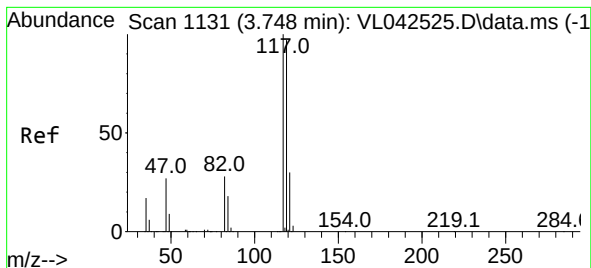
Delta R.T. 0.006 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Tgt Ion:	43	Resp:	215548
Ion Ratio	Lower	Upper	
43	100		
72	22.7	18.7	28.1





#35

Carbon Tetrachloride

Concen: 9.944 ppbv

RT: 3.755 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VL042534.D

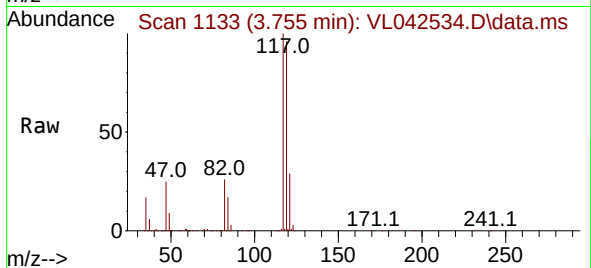
Acq: 12 May 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051225



Tgt Ion:117 Resp: 275990

Ion Ratio Lower Upper

117 100

119 95.5 77.7 116.5

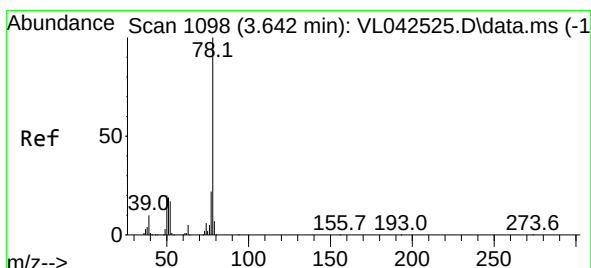
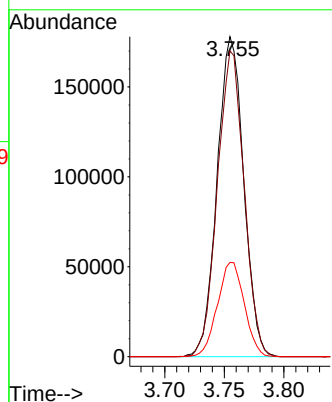
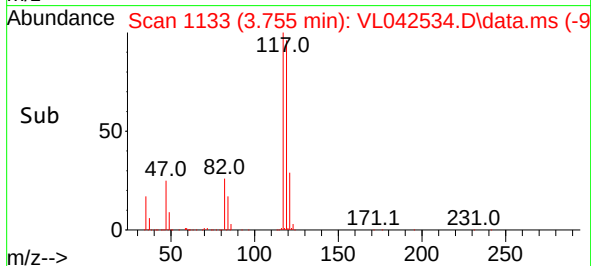
121 29.5 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#36

Benzene

Concen: 11.060 ppbv

RT: 3.648 min Scan# 1100

Delta R.T. 0.006 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

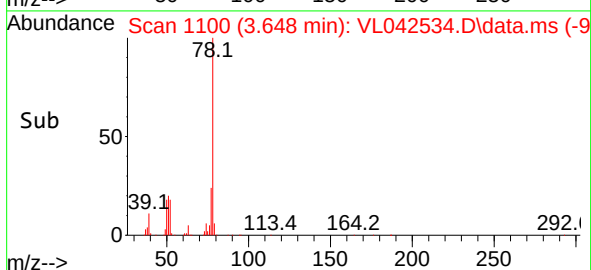
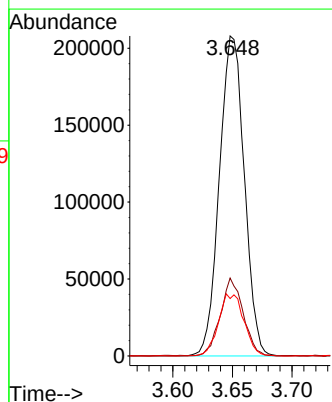
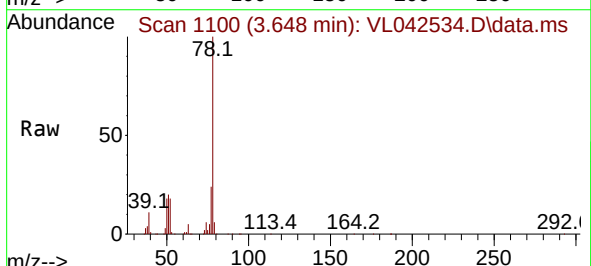
Tgt Ion: 78 Resp: 302608

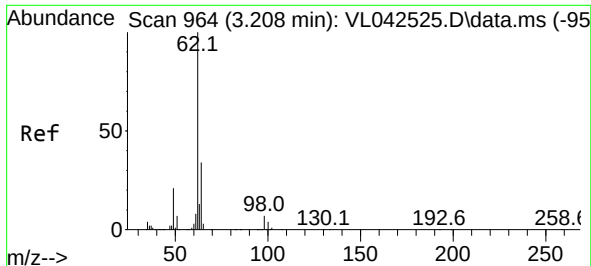
Ion Ratio Lower Upper

78 100

77 24.3 17.4 26.2

50 18.0 16.3 24.5





#37

1,2-Dichloroethane

Concen: 10.133 ppbv

RT: 3.211 min Scan# 9

Delta R.T. 0.003 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051225

Tgt Ion: 62 Resp: 19775

Ion Ratio Lower Upper

62 100

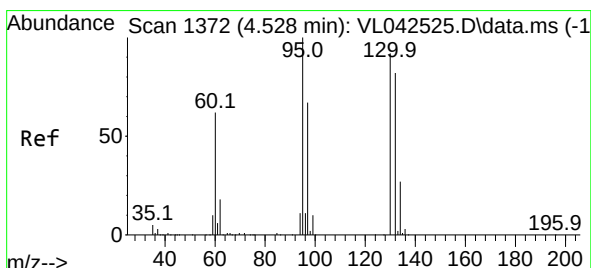
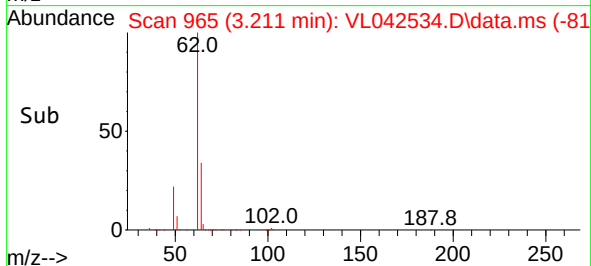
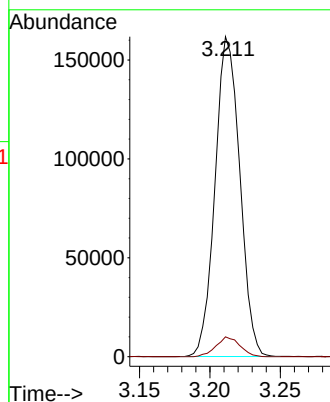
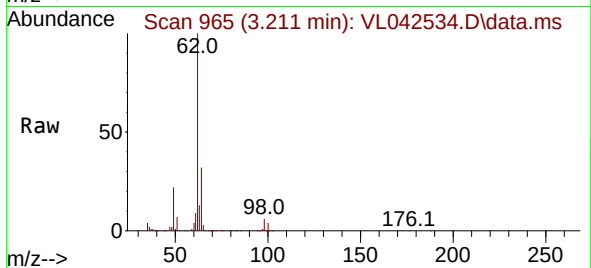
98 6.0 5.0 7.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#38

Trichloroethene

Concen: 10.461 ppbv

RT: 4.541 min Scan# 1376

Delta R.T. 0.013 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Tgt Ion:130 Resp: 124443

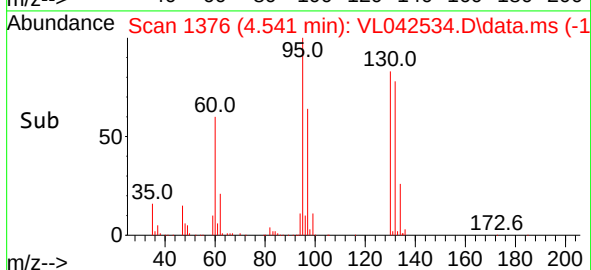
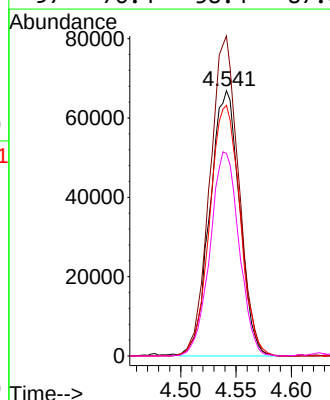
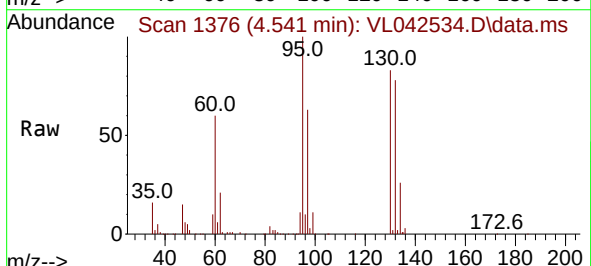
Ion Ratio Lower Upper

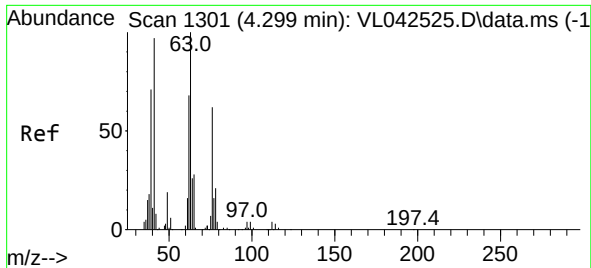
130 100

95 120.7 87.0 130.4

132 94.5 71.1 106.7

97 76.4 58.4 87.6





#39

1,2-Dichloropropane

Concen: 10.381 ppbv

RT: 4.308 min Scan# 11

Delta R.T. 0.010 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051225

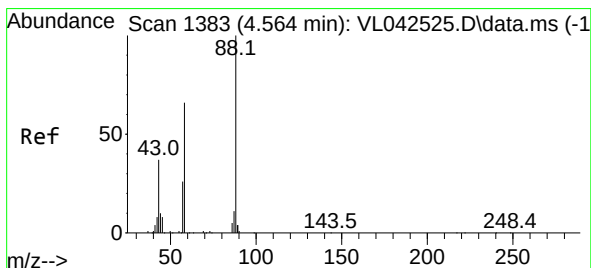
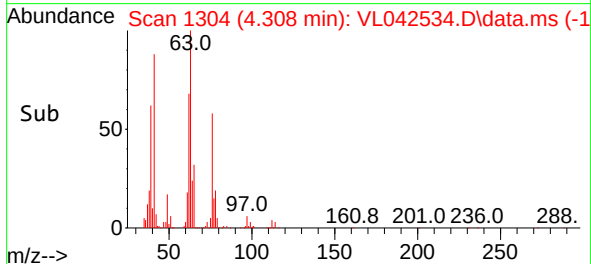
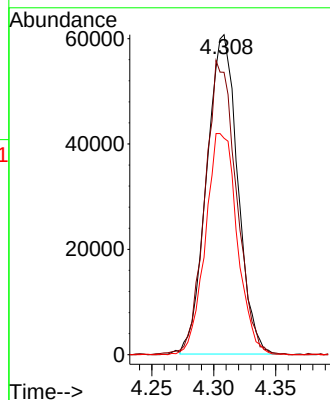
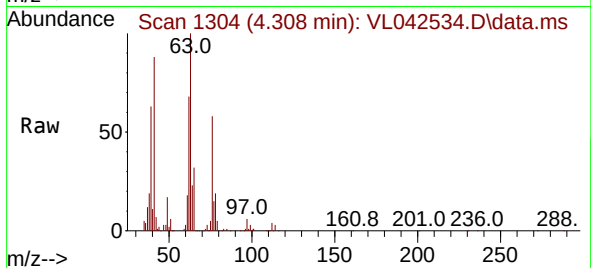
Tgt Ion: 63 Resp: 105794

Ion	Ratio	Lower	Upper
63	100		
41	88.2	77.5	116.3
62	67.4	54.6	82.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#40

1,4-Dioxane

Concen: 11.326 ppbv

RT: 4.577 min Scan# 1387

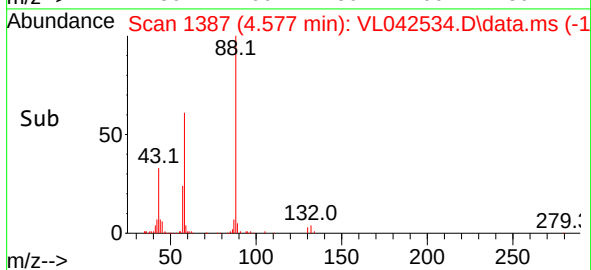
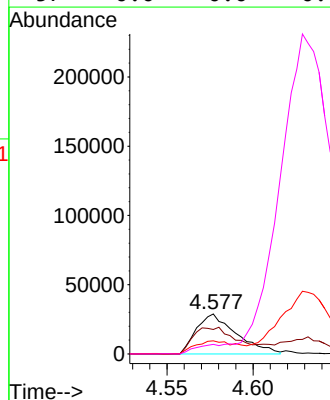
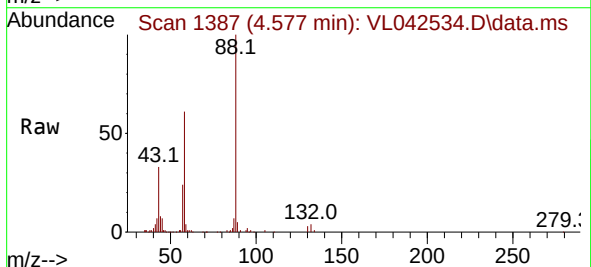
Delta R.T. 0.013 min

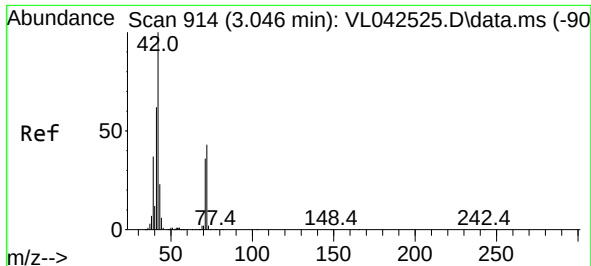
Lab File: VL042534.D

Acq: 12 May 2025 16:10

Tgt Ion: 88 Resp: 46856

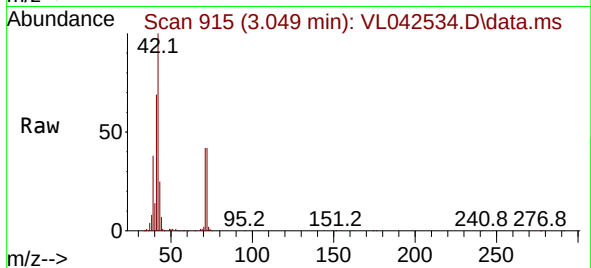
Ion	Ratio	Lower	Upper
88	100		
58	75.2	58.2	87.2
43	35.2	27.9	41.9
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 12.288 ppbv
RT: 3.049 min Scan# 914
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

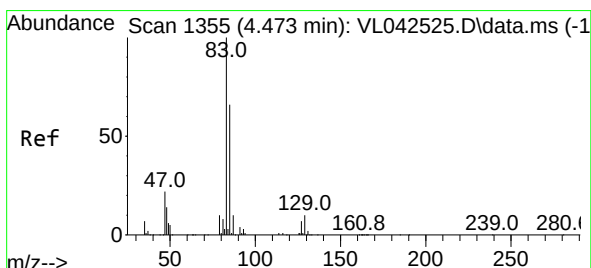
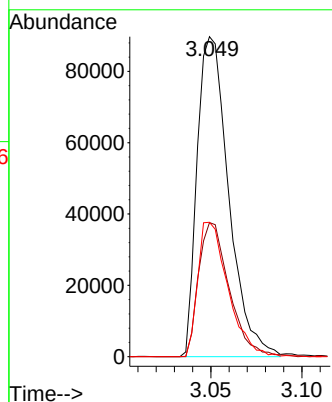
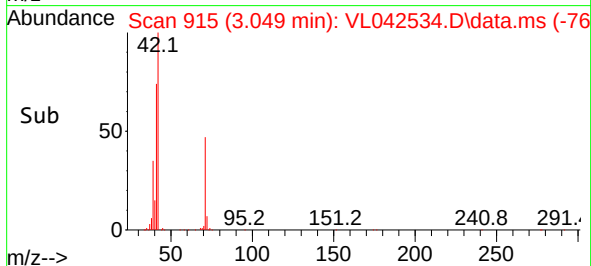
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



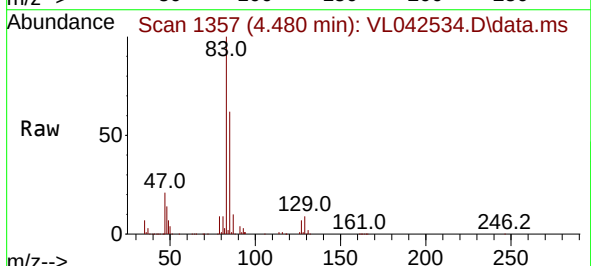
Tgt Ion: 42 Resp: 108235
Ion Ratio Lower Upper
42 100
72 40.9 32.7 49.1
71 40.3 30.4 45.6

Manual Integrations
APPROVED

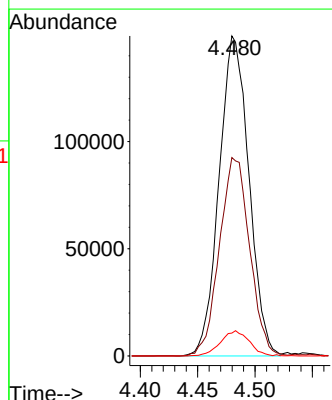
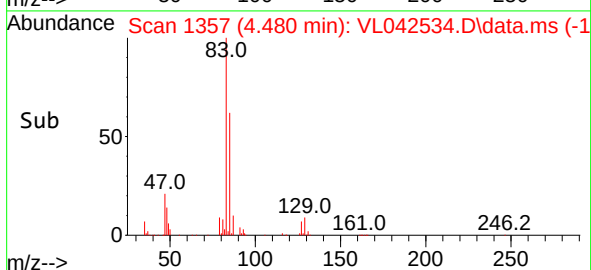
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

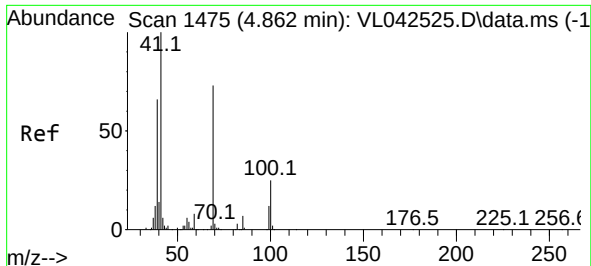


#42
Bromodichloromethane
Concen: 10.344 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10



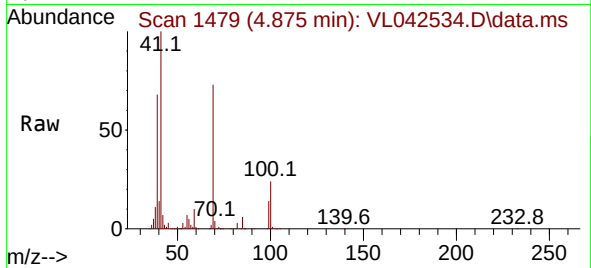
Tgt Ion: 83 Resp: 269411
Ion Ratio Lower Upper
83 100
85 62.0 52.6 79.0
127 7.2 6.0 9.0





#43
Methyl Methacrylate
Concen: 12.553 ppbv
RT: 4.875 min Scan# 1475
Delta R.T. 0.013 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

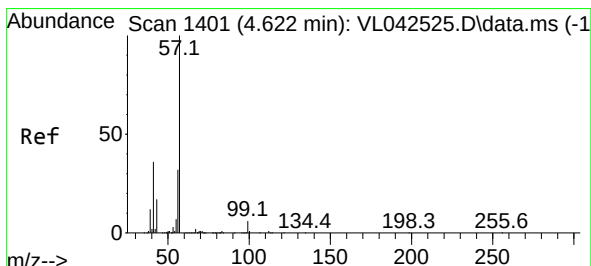
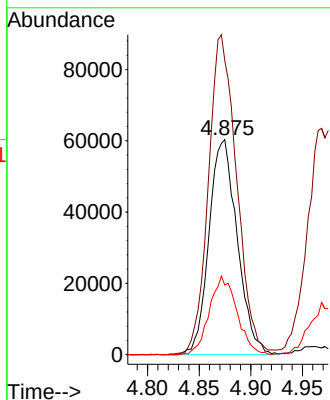
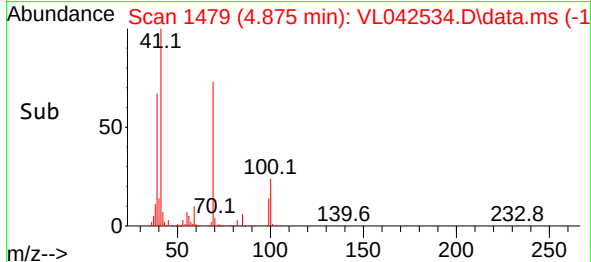
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



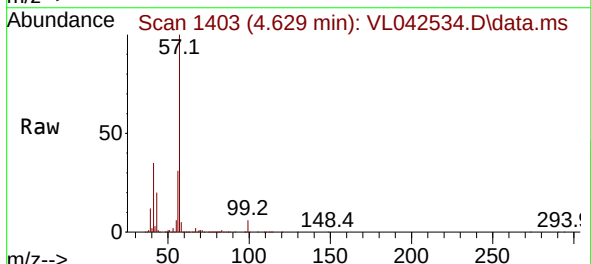
Tgt Ion: 69 Resp: 115023
Ion Ratio Lower Upper
69 100
41 148.6 119.9 179.9
100 35.6 28.4 42.6

Manual Integrations
APPROVED

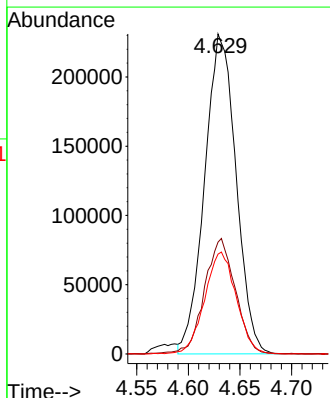
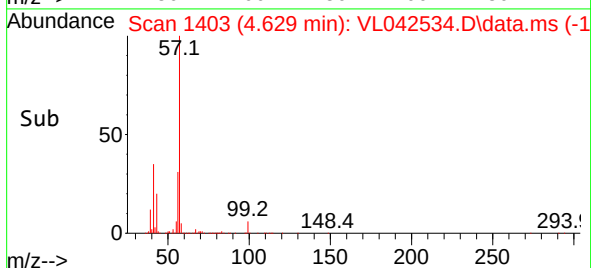
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

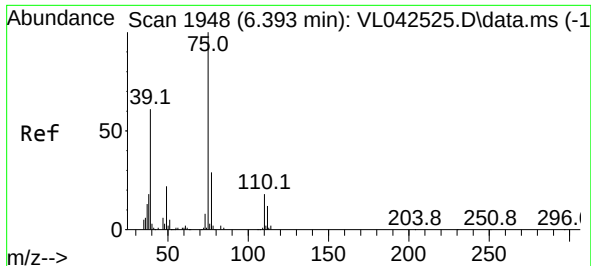


#44
2,2,4-Trimethylpentane
Concen: 11.264 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10



Tgt Ion: 57 Resp: 488308
Ion Ratio Lower Upper
57 100
41 35.8 28.3 42.5
56 32.1 25.9 38.9





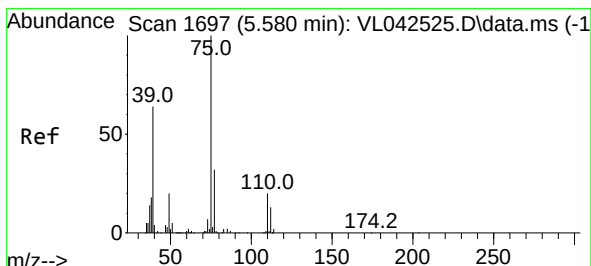
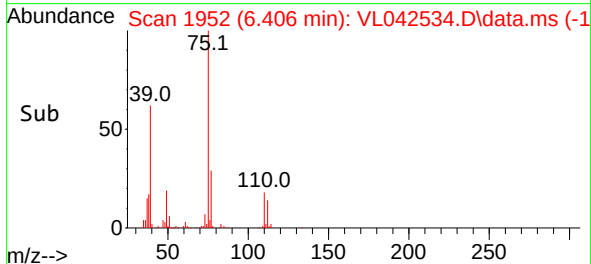
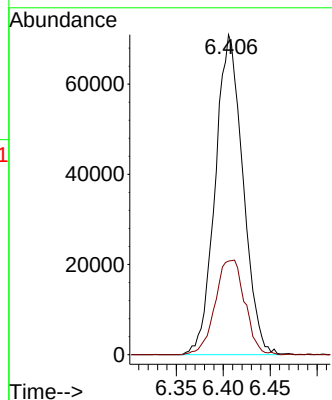
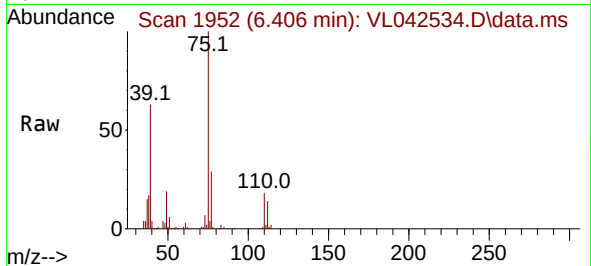
#45
t-1,3-Dichloropropene
Concen: 12.452 ppbv
RT: 6.406 min Scan# 1948
Delta R.T. 0.013 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Instrument : MSVOA_L
ClientSampleId : ICVVL051225

Tgt Ion: 75 Resp: 14577
Ion Ratio Lower Upper
75 100
77 29.3 23.3 34.9

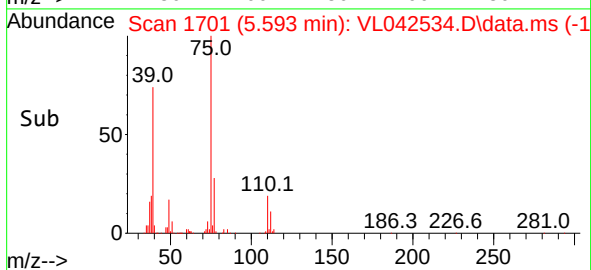
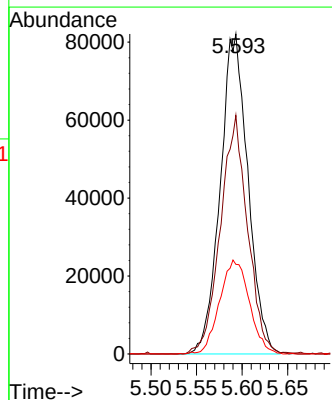
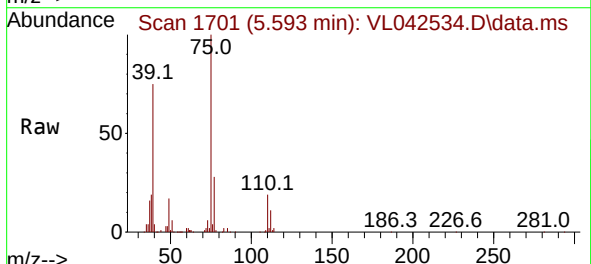
Manual Integrations
APPROVED

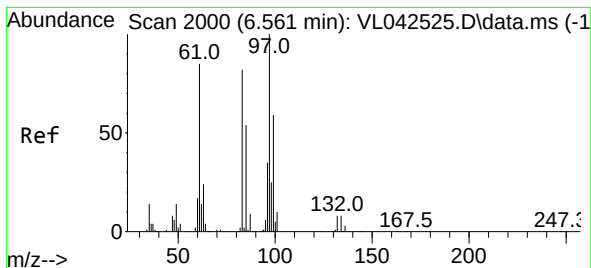
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#46
cis-1,3-Dichloropropene
Concen: 12.337 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. 0.013 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Tgt Ion: 75 Resp: 173741
Ion Ratio Lower Upper
75 100
39 74.5 51.2 76.8
77 27.9 25.4 38.0





#47

1,1,2-Trichloroethane

Concen: 10.192 ppbv

RT: 6.574 min Scan# 2004

Delta R.T. 0.013 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051225

Tgt Ion: 97 Resp: 12231

Ion Ratio Lower Upper

97 100

83 77.7 66.0 99.0

85 51.6 42.8 64.2

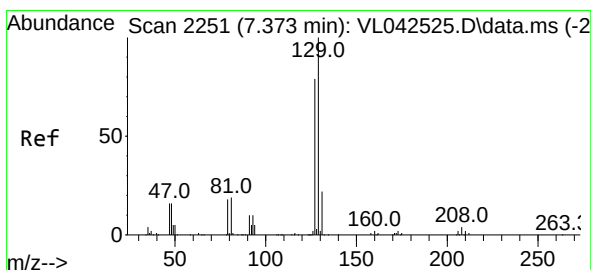
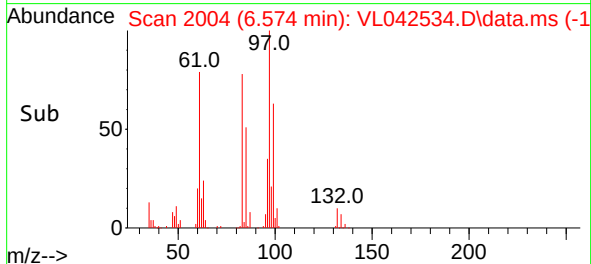
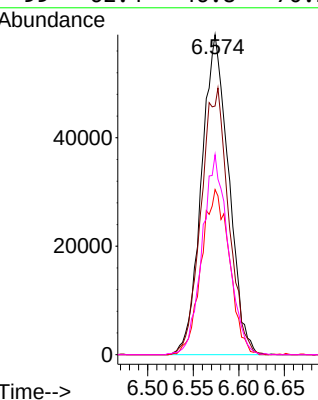
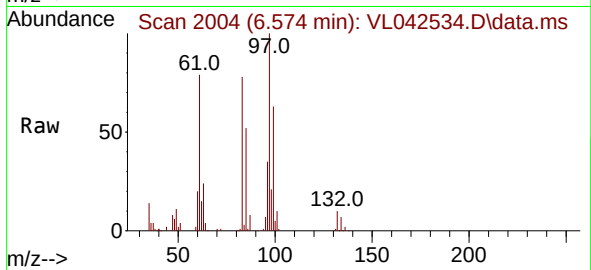
99 62.4 46.8 70.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#48

Dibromochloromethane

Concen: 10.680 ppbv

RT: 7.380 min Scan# 2253

Delta R.T. 0.006 min

Lab File: VL042534.D

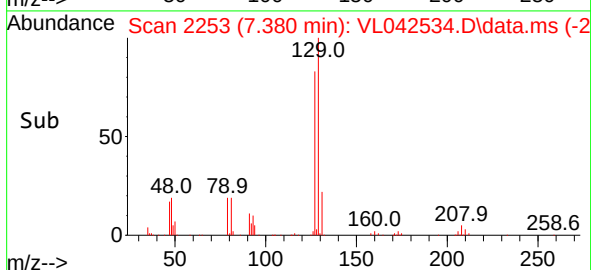
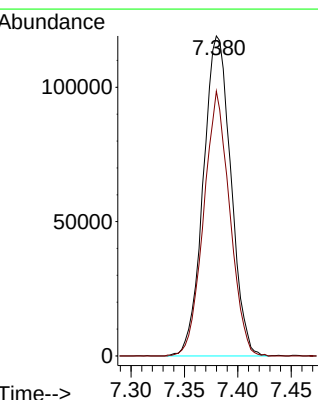
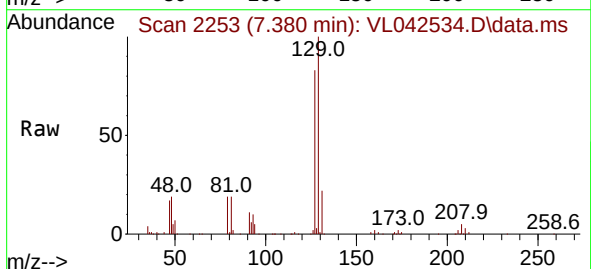
Acq: 12 May 2025 16:10

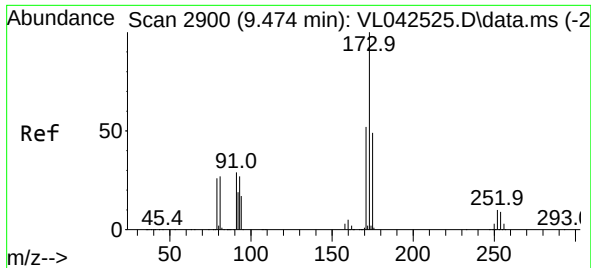
Tgt Ion:129 Resp: 213991

Ion Ratio Lower Upper

129 100

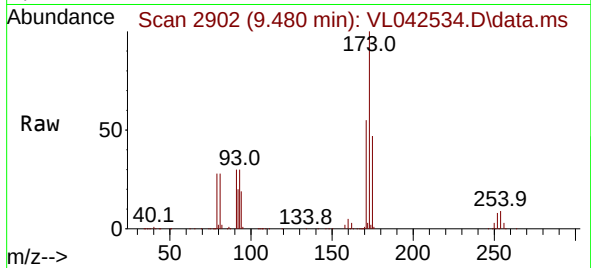
127 78.0 39.6 118.8





#49
Bromoform
Concen: 10.893 ppbv
RT: 9.480 min Scan# 2900
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

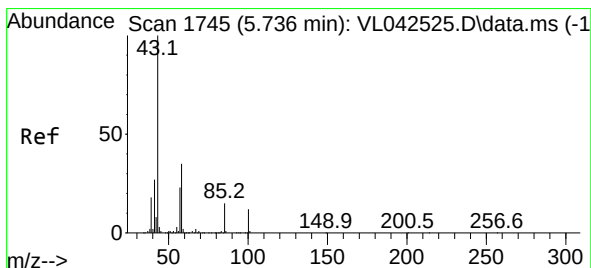
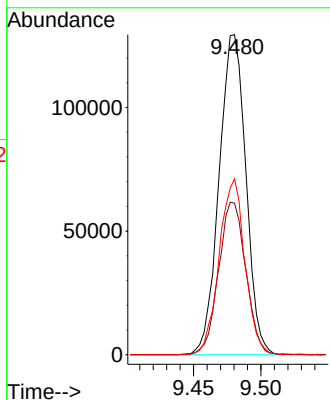
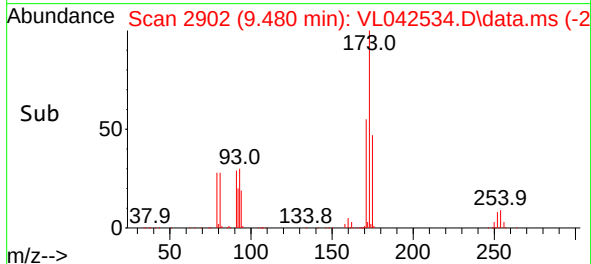
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



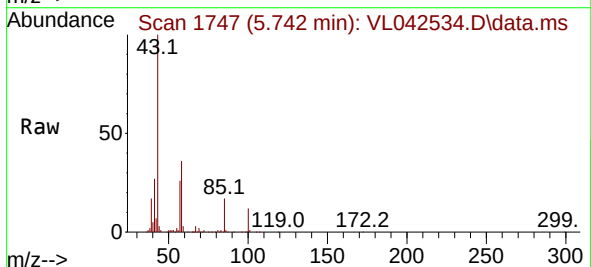
Tgt Ion:173 Resp: 179114
Ion Ratio Lower Upper
173 100
175 48.3 39.1 58.7
171 52.8 41.8 62.8

Manual Integrations
APPROVED

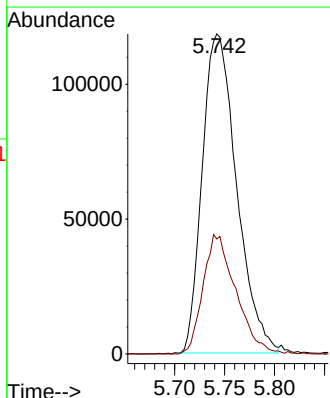
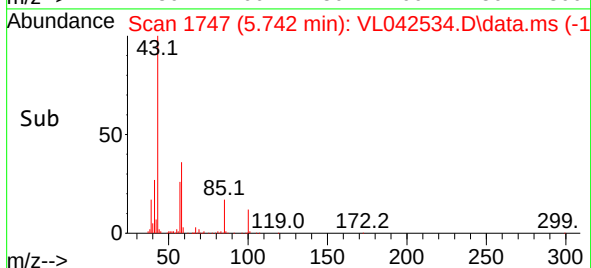
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

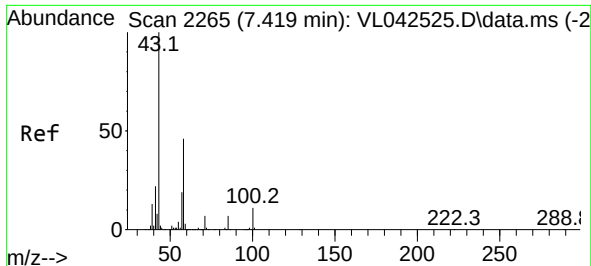


#50
4-Methyl-2-Pentanone
Concen: 11.865 ppbv
RT: 5.742 min Scan# 1747
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10



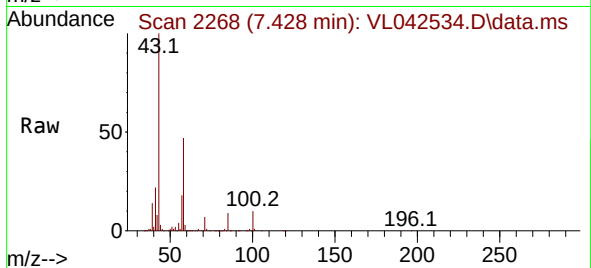
Tgt Ion: 43 Resp: 283584
Ion Ratio Lower Upper
43 100
58 35.7 28.6 42.8





#51
2-Hexanone
Concen: 13.181 ppbv
RT: 7.428 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

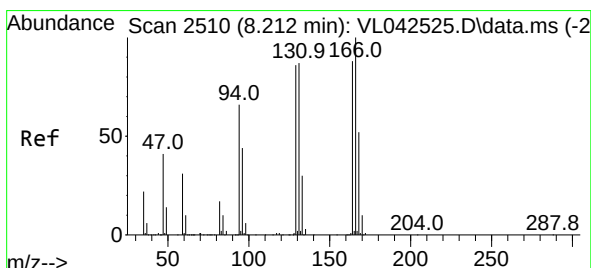
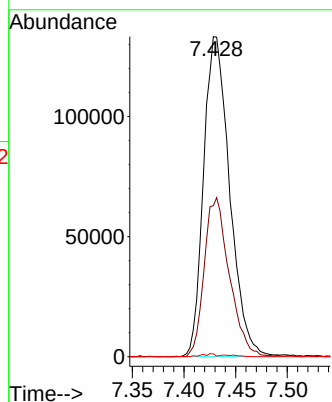
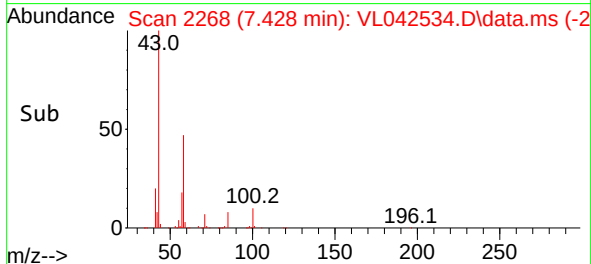
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



Tgt Ion: 43 Resp: 234324
Ion Ratio Lower Upper
43 100
58 48.0 37.5 56.3
98 0.8 0.9 1.3

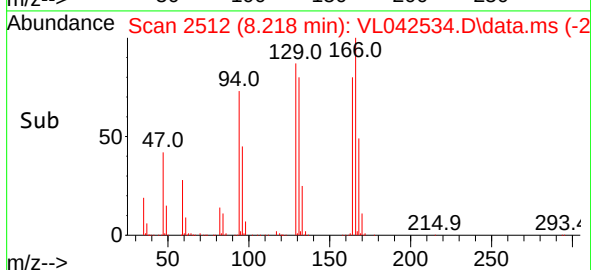
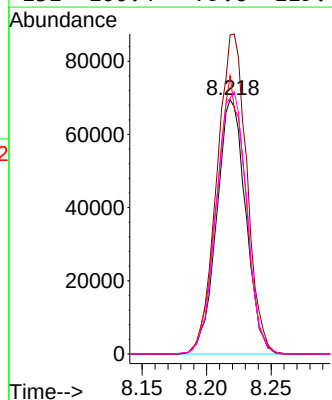
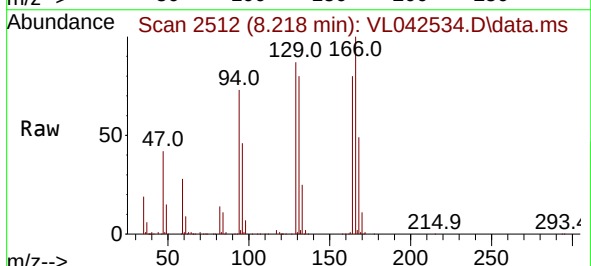
Manual Integrations
APPROVED

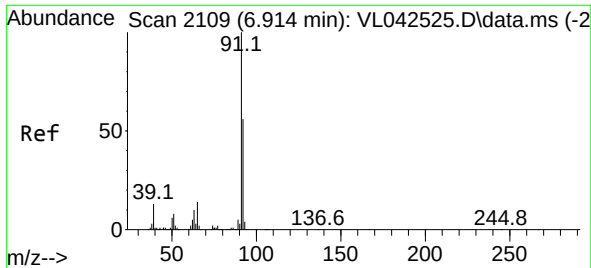
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#52
Tetrachloroethene
Concen: 10.391 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Tgt Ion:164 Resp: 108772
Ion Ratio Lower Upper
164 100
166 125.4 91.3 136.9
129 109.3 78.9 118.3
131 100.4 79.6 119.4





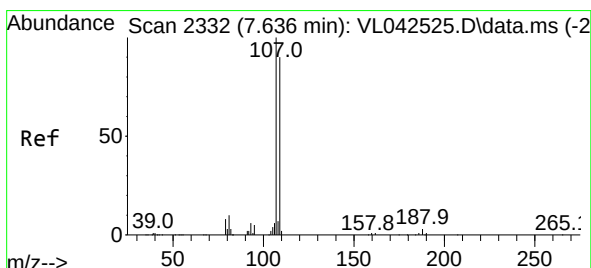
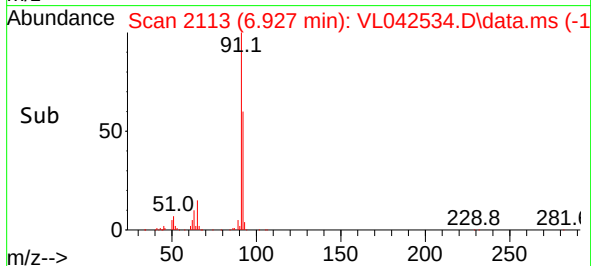
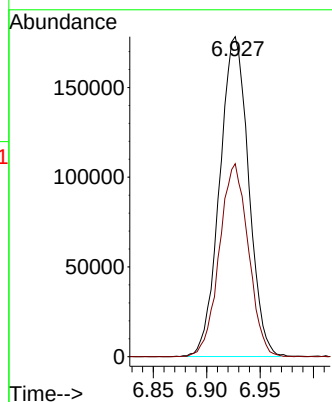
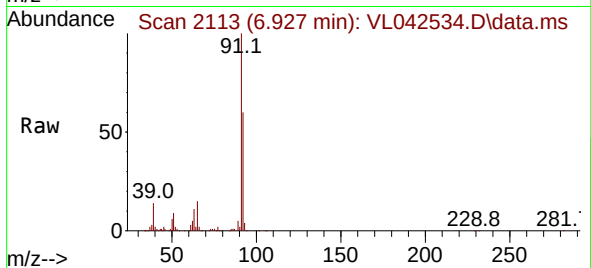
#53
Toluene
Concen: 12.519 ppbv
RT: 6.927 min Scan# 2109
Delta R.T. 0.013 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225

Tgt Ion: 91 Resp: 336112
Ion Ratio Lower Upper
91 100
92 60.5 47.8 71.6

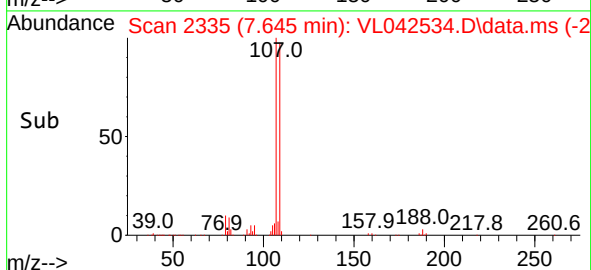
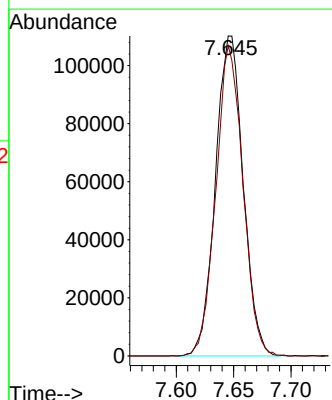
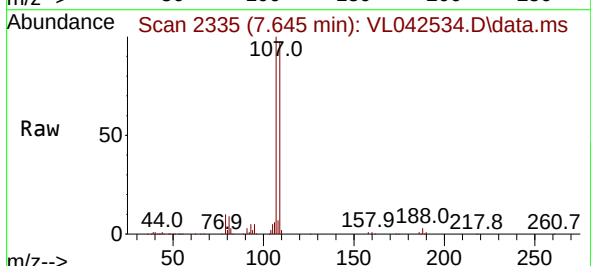
Manual Integrations
APPROVED

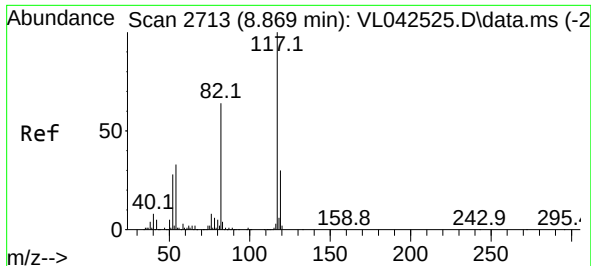
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#54
1,2-Dibromoethane
Concen: 10.565 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. 0.010 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

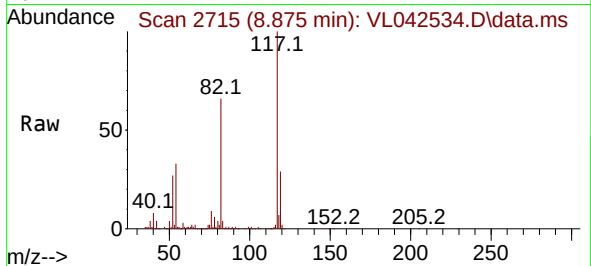
Tgt Ion:107 Resp: 185157
Ion Ratio Lower Upper
107 100
109 96.8 72.2 108.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

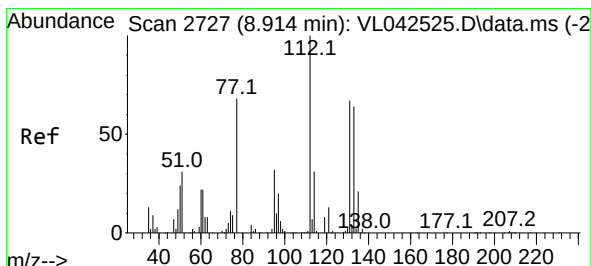
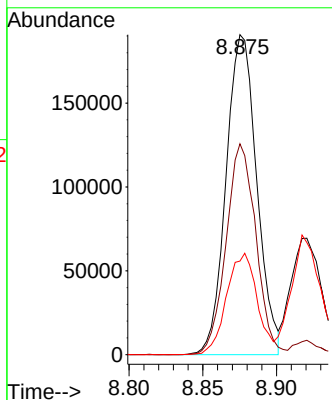
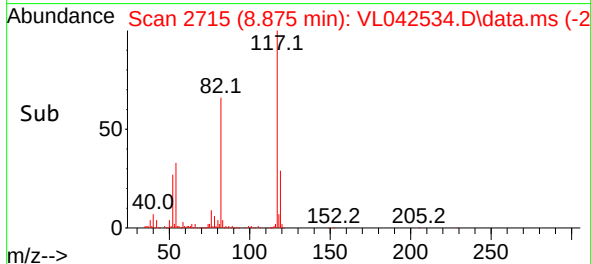
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



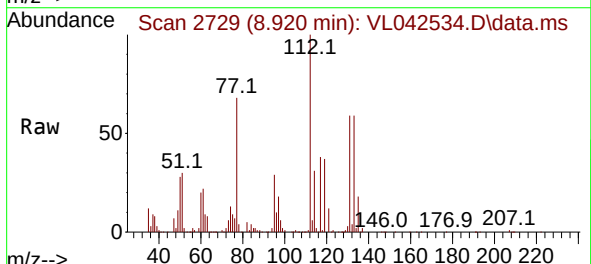
Tgt Ion:117 Resp: 276420
Ion Ratio Lower Upper
117 100
82 67.5 55.0 82.4
119 31.6 25.8 38.6

Manual Integrations
APPROVED

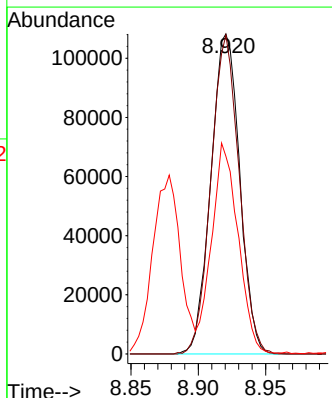
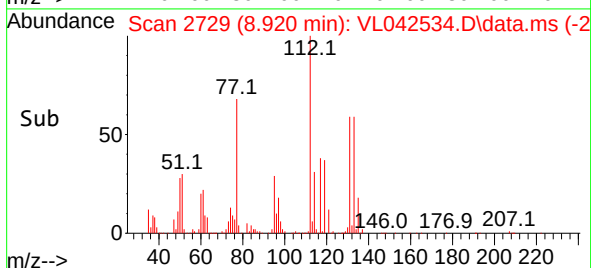
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

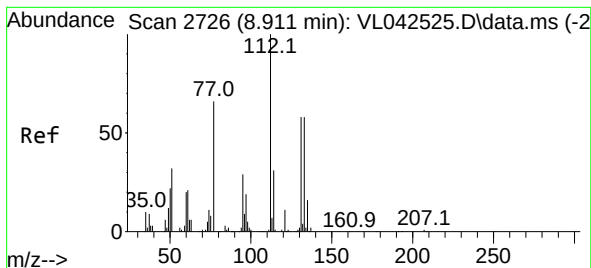


#56
1,1,1,2-Tetrachloroethane
Concen: 9.389 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10



Tgt Ion:131 Resp: 160912
Ion Ratio Lower Upper
131 100
133 97.4 77.4 116.2
119 61.2 49.0 73.4





#57

Chlorobenzene

Concen: 9.890 ppbv

RT: 8.917 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051225

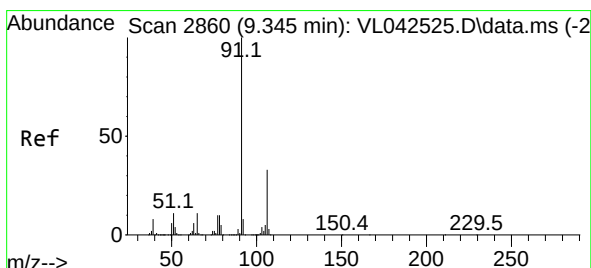
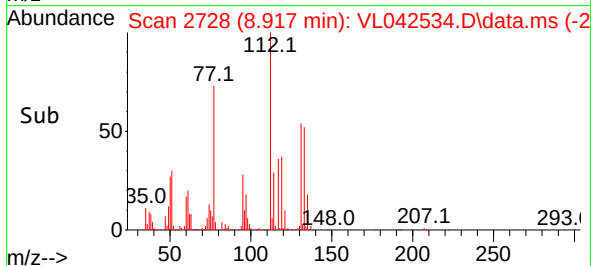
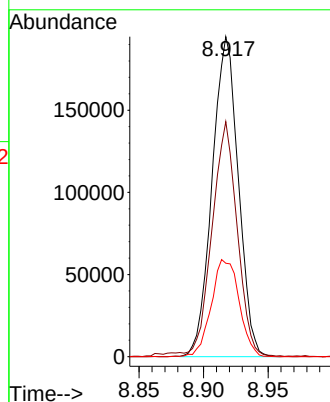
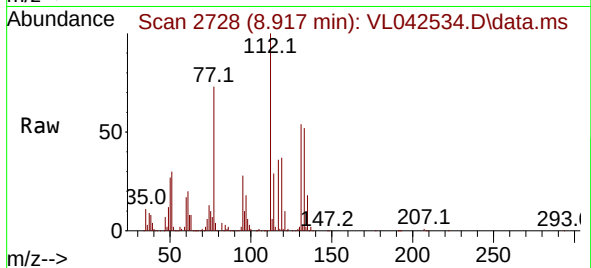
Tgt Ion:112 Resp: 274500

Ion	Ratio	Lower	Upper
112	100		
77	73.1	53.6	80.4
114	29.2	28.2	34.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#58

Ethyl Benzene

Concen: 12.941 ppbv

RT: 9.351 min Scan# 2862

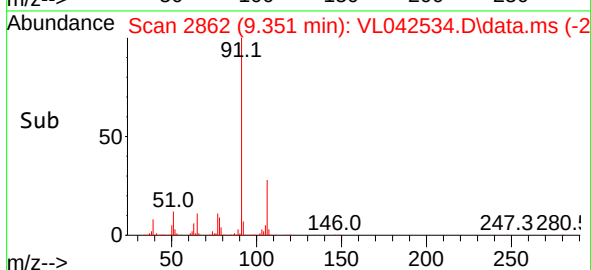
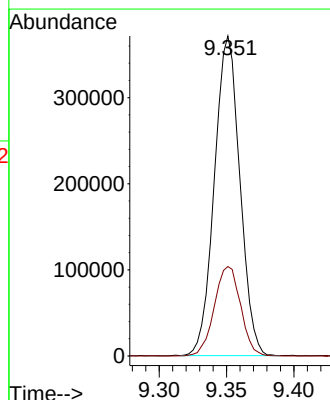
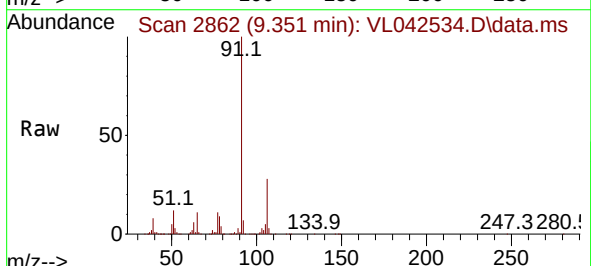
Delta R.T. 0.006 min

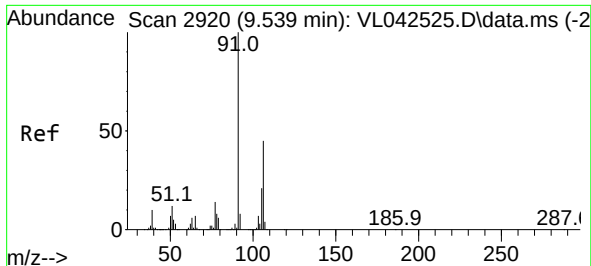
Lab File: VL042534.D

Acq: 12 May 2025 16:10

Tgt Ion: 91 Resp: 487590

Ion	Ratio	Lower	Upper
91	100		
106	28.0	26.0	39.0





#59

m/p-Xylene

Concen: 24.002 ppbv m

RT: 9.529 min Scan# 2920

Delta R.T. -0.010 min

Lab File: VL042534.D

Acq: 12 May 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051225

Tgt Ion: 91 Resp: 803149

Ion Ratio Lower Upper

91 100

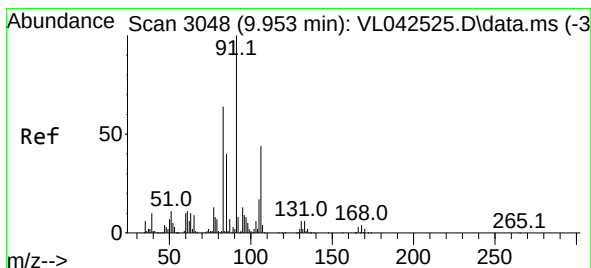
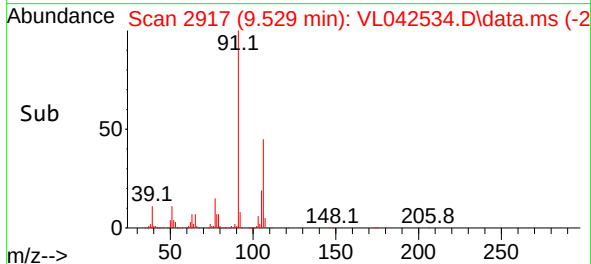
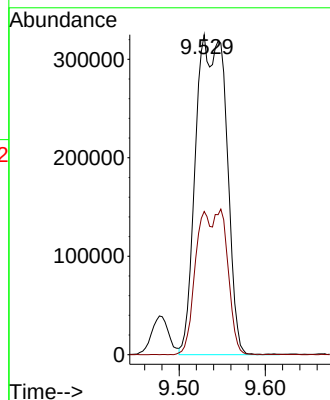
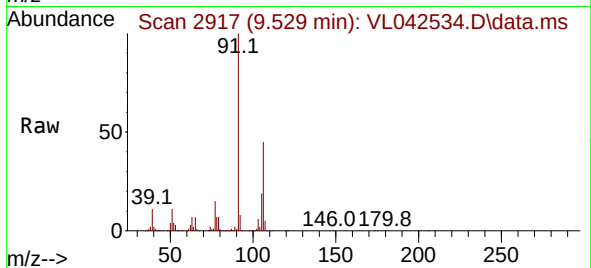
106 45.6 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025

Supervised By :Mahesh Dadoda 05/14/2025



#60

o-Xylene

Concen: 12.495 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. 0.006 min

Lab File: VL042534.D

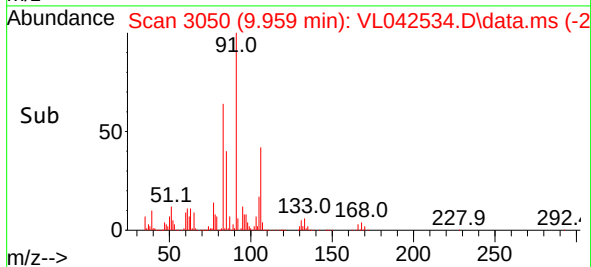
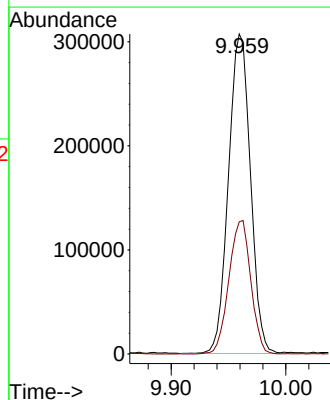
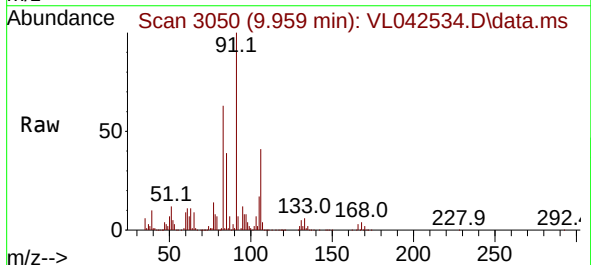
Acq: 12 May 2025 16:10

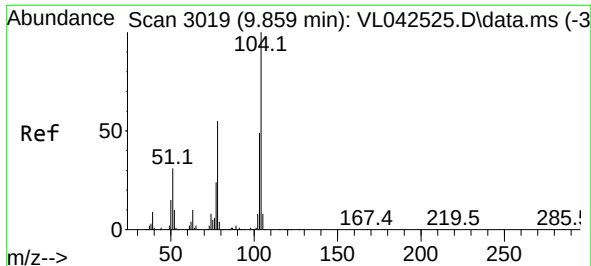
Tgt Ion: 91 Resp: 408333

Ion Ratio Lower Upper

91 100

106 41.7 21.6 64.6





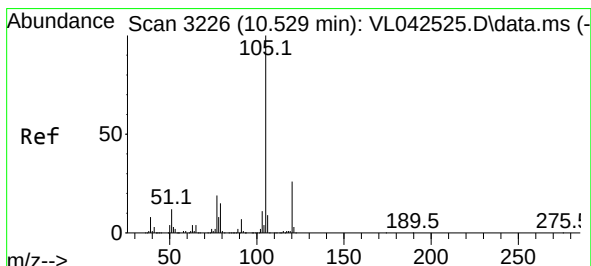
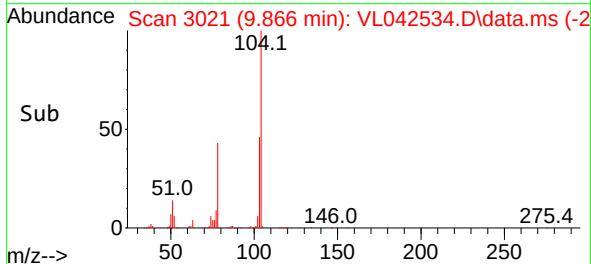
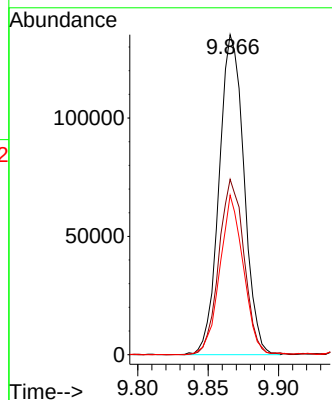
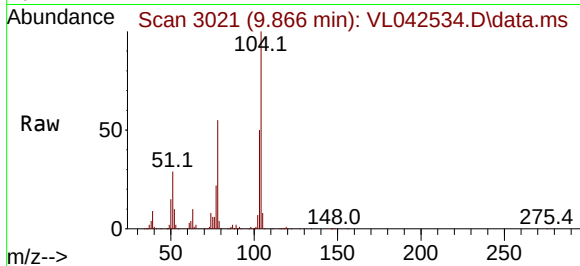
#61
Styrene
Concen: 13.737 ppbv
RT: 9.866 min Scan# 3019
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Instrument : MSVOA_L
ClientSampleId : ICVVL051225

Tgt Ion:104 Resp: 166262
Ion Ratio Lower Upper
104 100
78 55.6 44.7 67.1
103 47.5 38.6 58.0

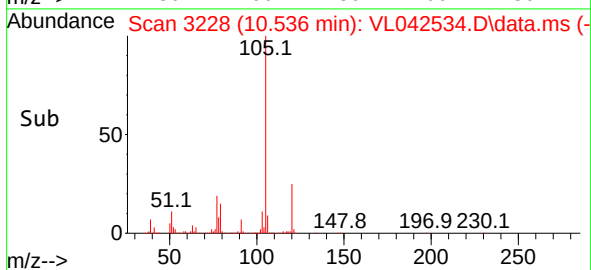
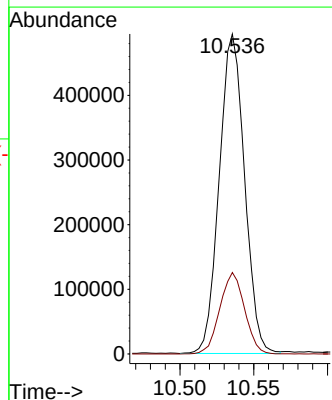
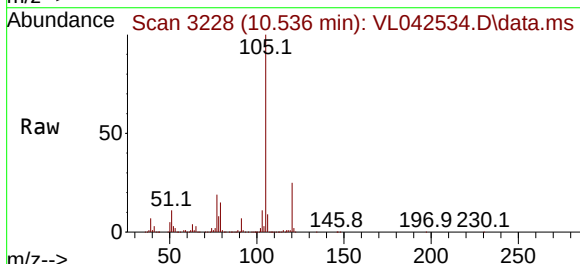
Manual Integrations
APPROVED

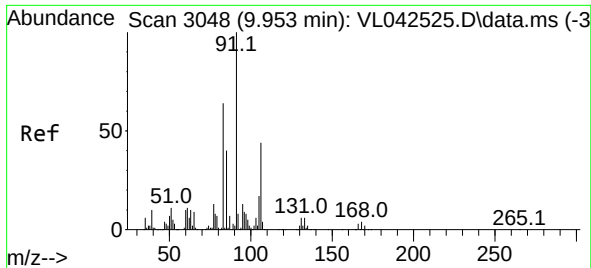
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#62
Isopropylbenzene
Concen: 11.978 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

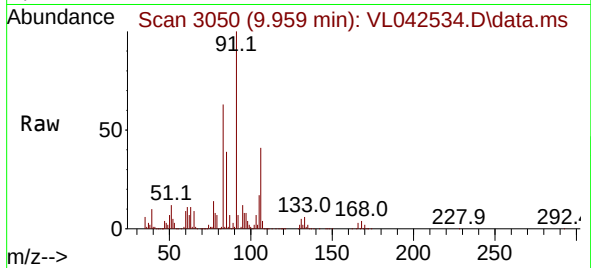
Tgt Ion:105 Resp: 589527
Ion Ratio Lower Upper
105 100
120 24.9 20.1 30.1





#63
1,1,2,2-Tetrachloroethane
Concen: 9.228 ppbv
RT: 9.959 min Scan# 3048
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

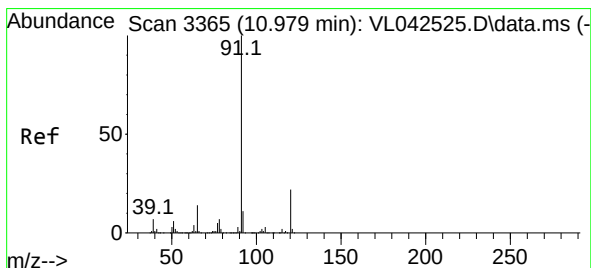
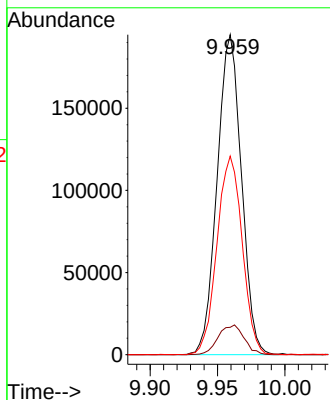
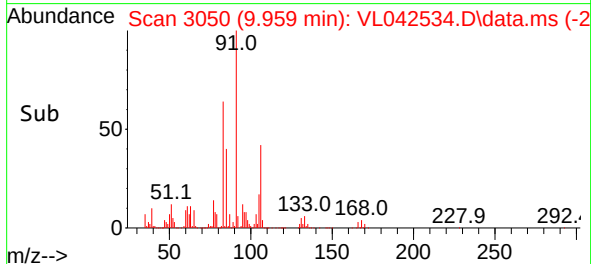
Instrument : MSVOA_L
ClientSampleId : ICVVL051225



Tgt Ion: 83 Resp: 244748
Ion Ratio Lower Upper
83 100
131 9.9 4.9 14.7
85 64.4 32.3 96.8

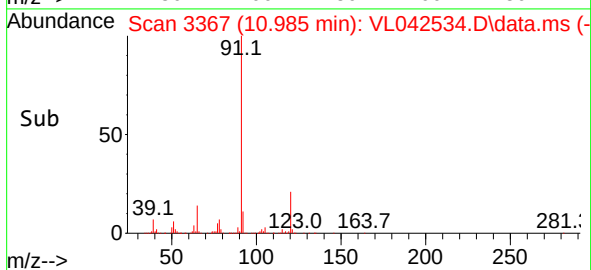
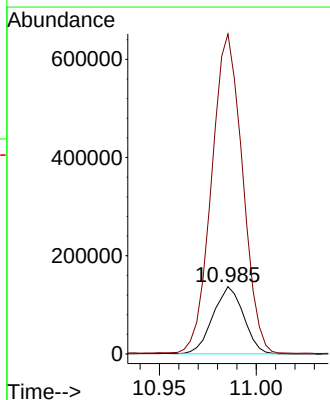
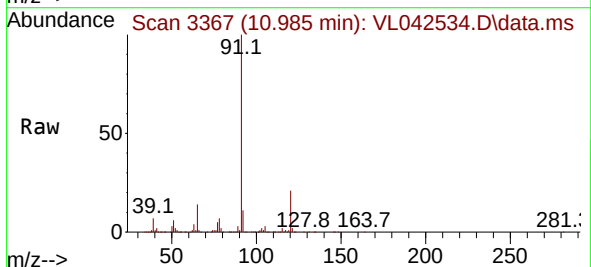
Manual Integrations
APPROVED

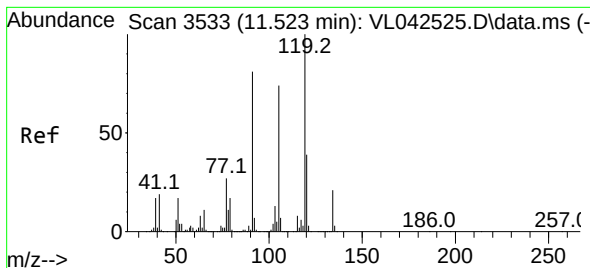
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#64
n-propylbenzene
Concen: 11.993 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Tgt Ion:120 Resp: 149858
Ion Ratio Lower Upper
120 100
91 484.0 377.7 566.5





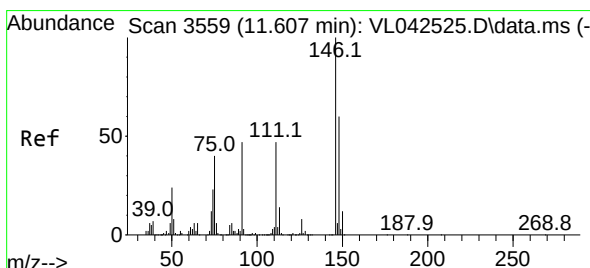
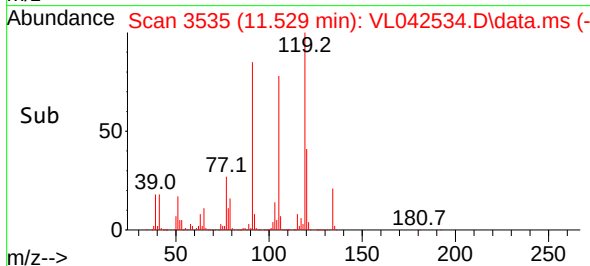
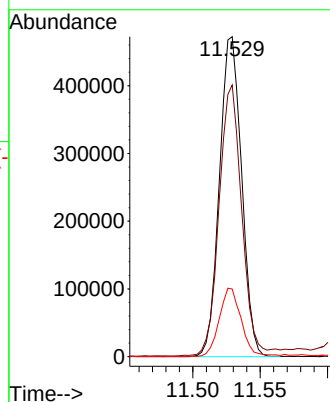
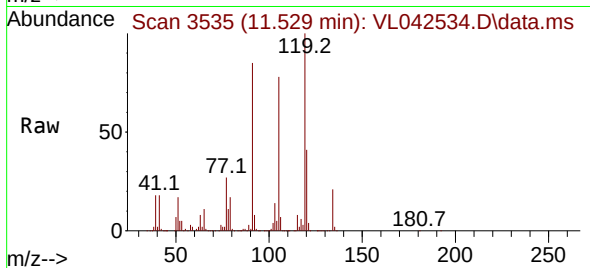
#65
tert-Butylbenzene
Concen: 11.963 ppbv
RT: 11.529 min Scan# 3533
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225

Tgt Ion: 119 Resp: 54064
Ion Ratio Lower Upper
119 100
91 87.6 66.6 99.8
134 21.3 16.3 24.5

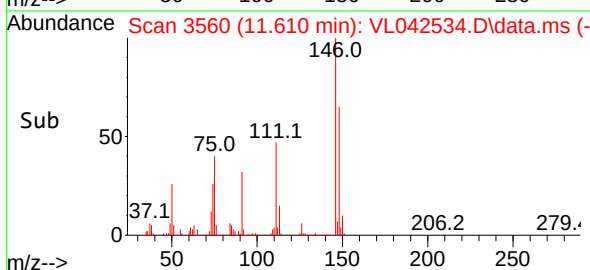
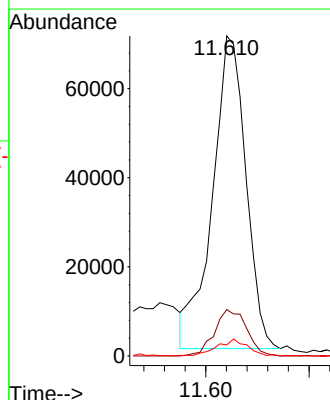
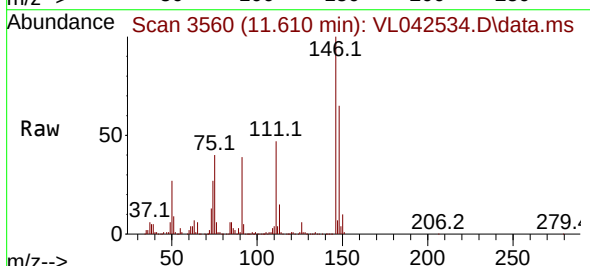
Manual Integrations
APPROVED

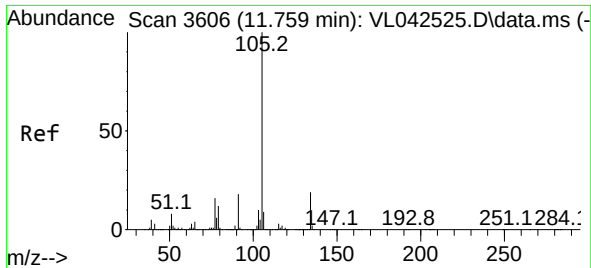
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#66
Benzyl Chloride
Concen: 13.151 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

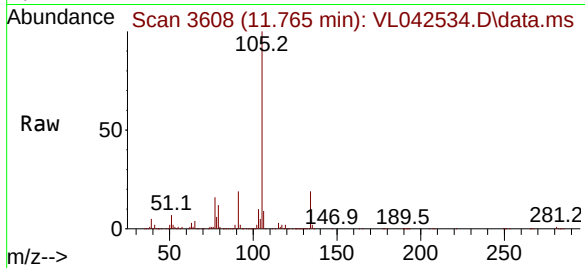
Tgt Ion: 91 Resp: 78976
Ion Ratio Lower Upper
91 100
126 14.4 13.7 20.5
128 5.1 4.2 6.2





#67
 sec-Butylbenzene
 Concen: 11.283 ppbv
 RT: 11.765 min Scan# 3608
 Delta R.T. 0.006 min
 Lab File: VL042534.D
 Acq: 12 May 2025 16:10

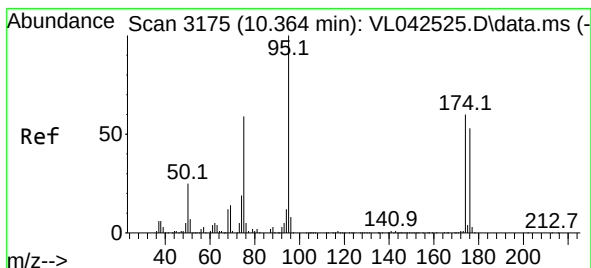
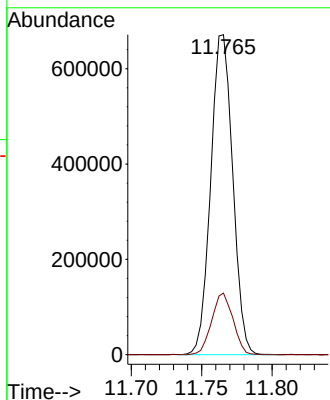
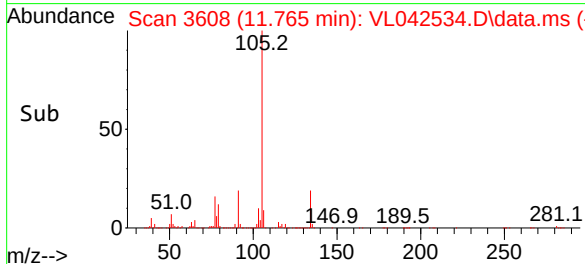
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051225



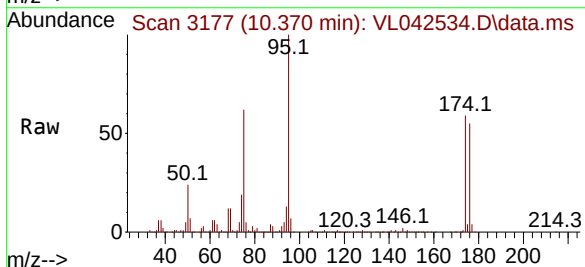
Tgt Ion:105 Resp: 73111
 Ion Ratio Lower Upper
 105 100
 134 18.7 14.9 22.3

Manual Integrations
 APPROVED

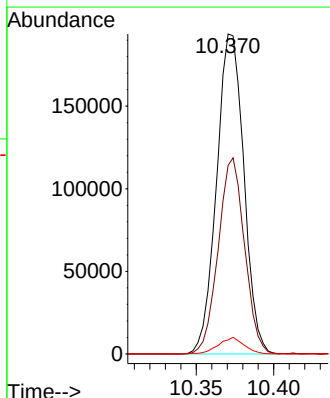
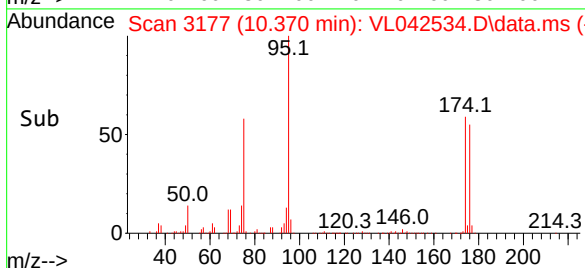
Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

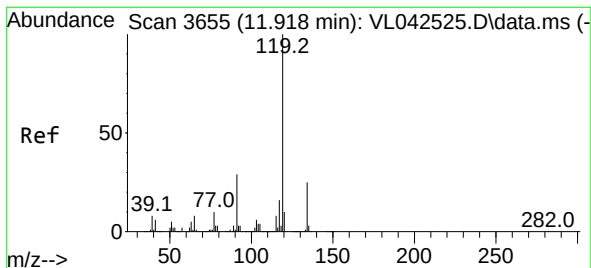


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.861 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. 0.006 min
 Lab File: VL042534.D
 Acq: 12 May 2025 16:10



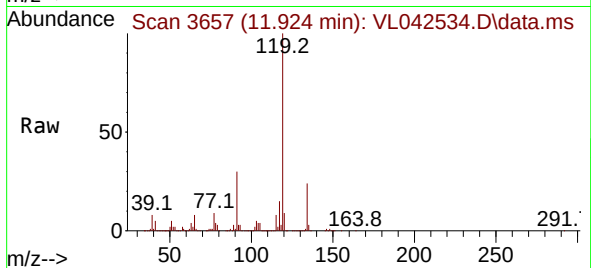
Tgt Ion: 95 Resp: 237168
 Ion Ratio Lower Upper
 95 100
 174 59.3 48.0 72.0
 175 4.9 3.5 5.3





#69
p-Isopropyltoluene
Concen: 11.921 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

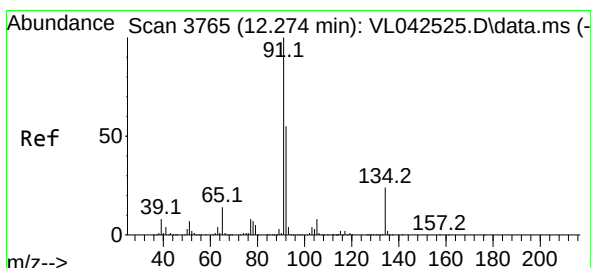
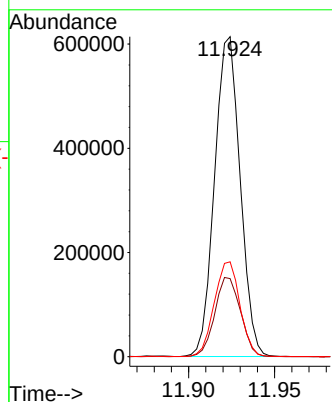
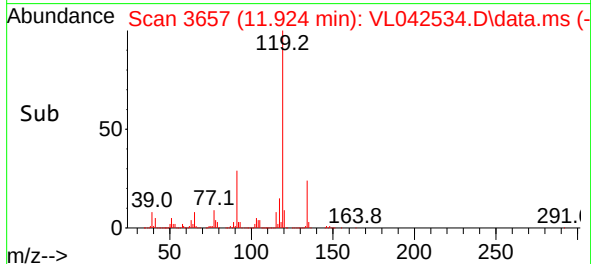
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



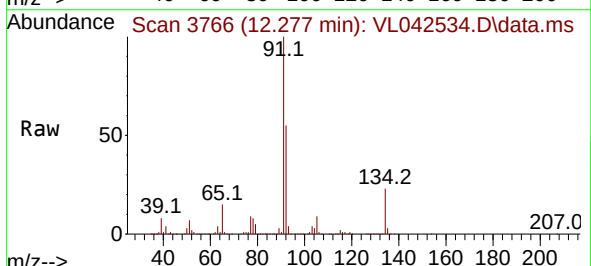
Tgt Ion: 119 Resp: 635040
Ion Ratio Lower Upper
119 100
134 25.1 19.8 29.6
91 29.9 23.6 35.4

Manual Integrations
APPROVED

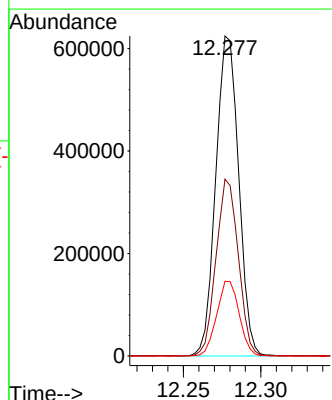
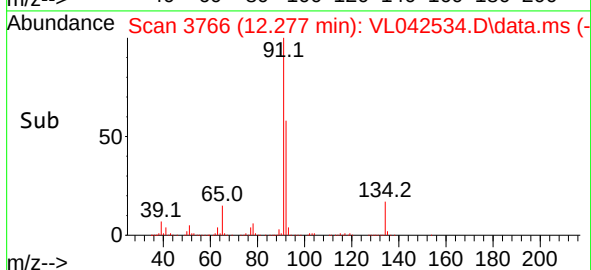
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

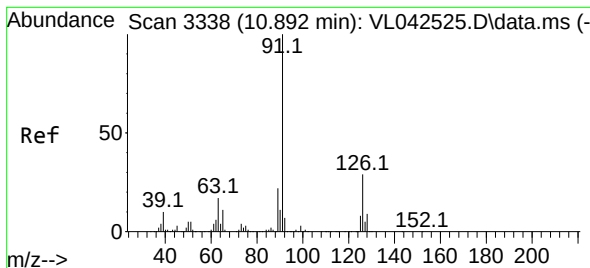


#70
n-Butylbenzene
Concen: 12.192 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10



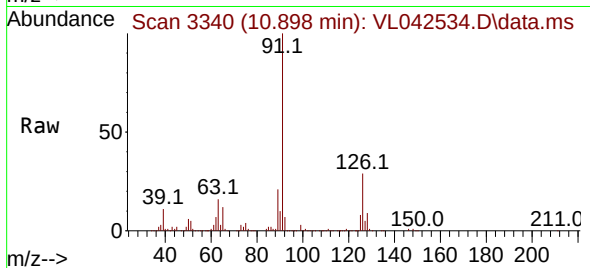
Tgt Ion: 91 Resp: 641756
Ion Ratio Lower Upper
91 100
92 53.8 43.7 65.5
134 23.0 18.9 28.3





#71
2-Chlorotoluene
Concen: 12.354 ppbv
RT: 10.898 min Scan# 3338
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

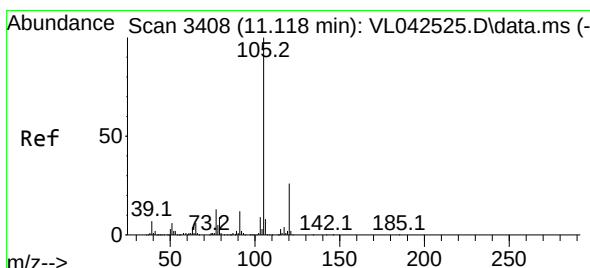
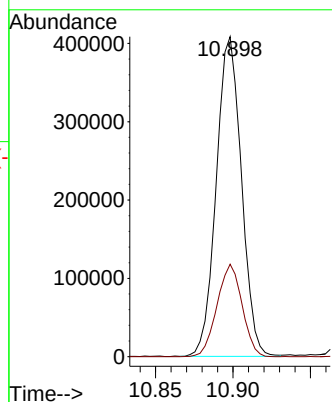
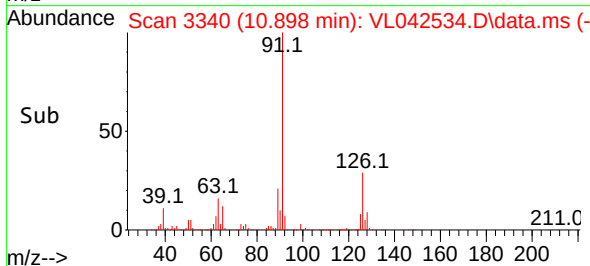
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



Tgt Ion: 91 Resp: 460410
Ion Ratio Lower Upper
91 100
126 28.8 11.4 45.6

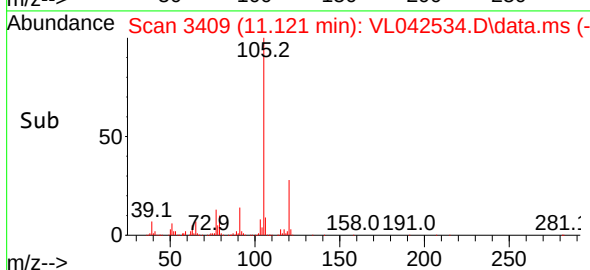
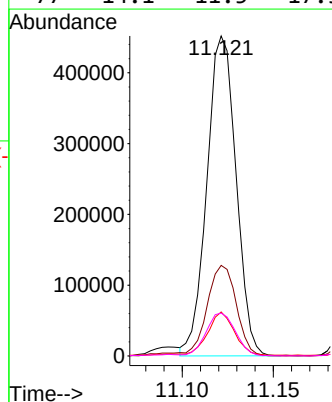
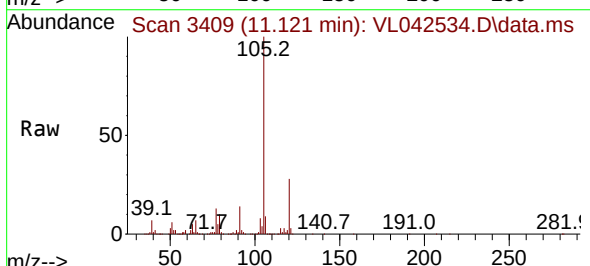
Manual Integrations
APPROVED

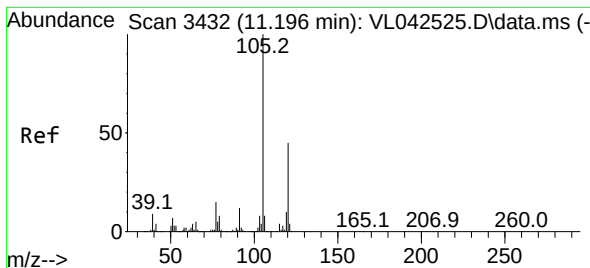
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#72
4-Ethyltoluene
Concen: 12.435 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

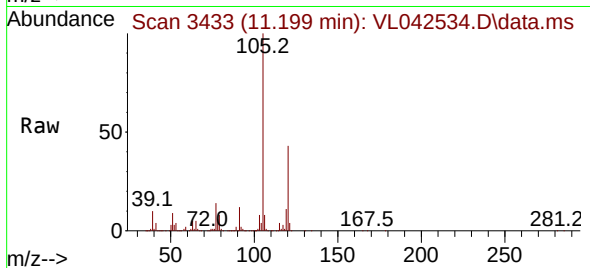
Tgt Ion:105 Resp: 504066
Ion Ratio Lower Upper
105 100
120 29.2 22.9 34.3
91 12.9 10.9 16.3
77 14.1 11.5 17.3





#73
1,3,5-Trimethylbenzene
Concen: 11.906 ppbv
RT: 11.199 min Scan# 3432
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

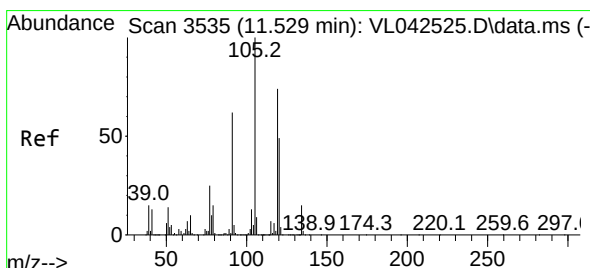
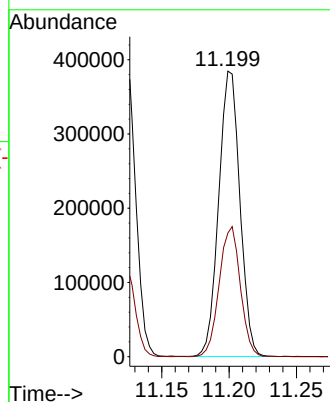
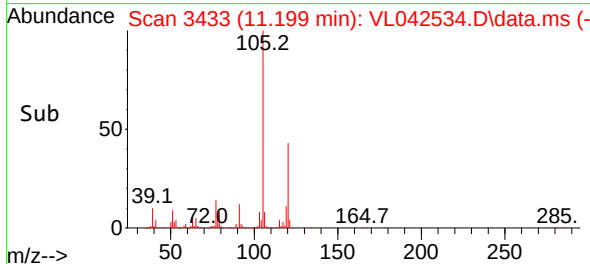
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



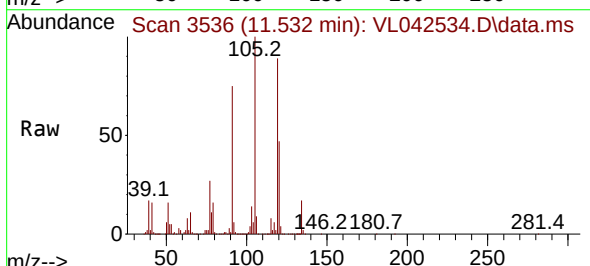
Tgt Ion:105 Resp: 42039
Ion Ratio Lower Upper
105 100
120 43.3 36.0 54.0

Manual Integrations
APPROVED

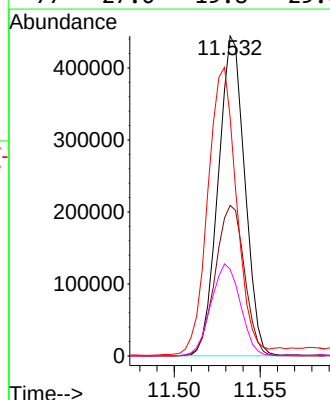
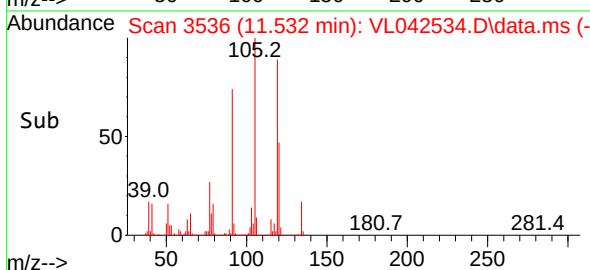
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

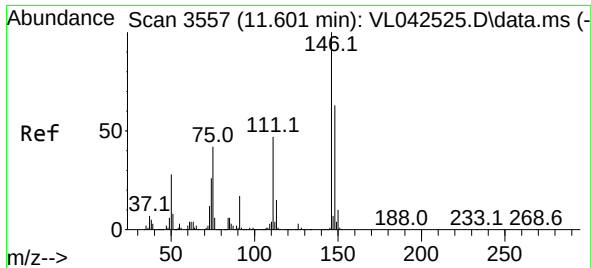


#74
1,2,4-Trimethylbenzene
Concen: 10.983 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10



Tgt Ion:105 Resp: 477131
Ion Ratio Lower Upper
105 100
120 47.0 39.0 58.6
91 73.8 49.4 74.2
77 27.0 19.8 29.6





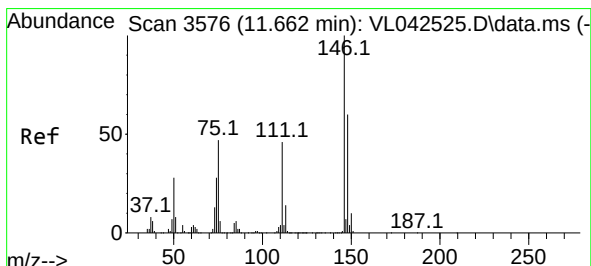
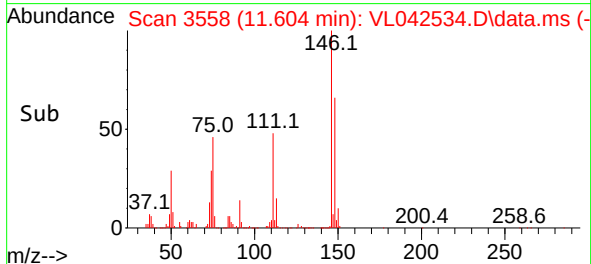
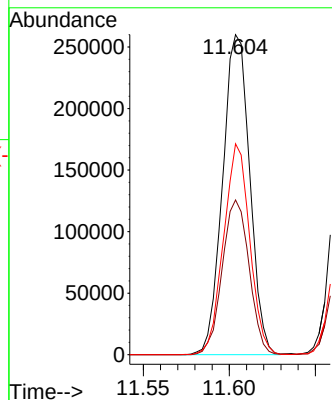
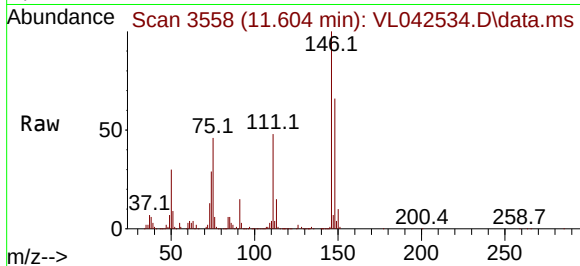
#75
1,3-Dichlorobenzene
Concen: 10.479 ppbv
RT: 11.604 min Scan# 3557
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225

Tgt Ion:146 Resp: 285094
Ion Ratio Lower Upper
146 100
111 47.9 23.6 71.0
148 63.5 31.6 94.8

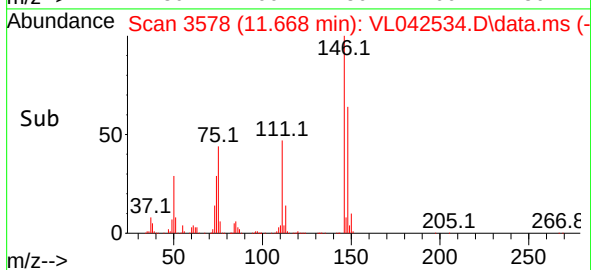
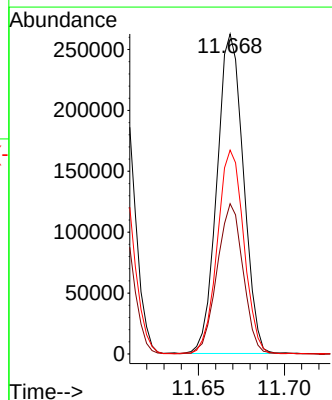
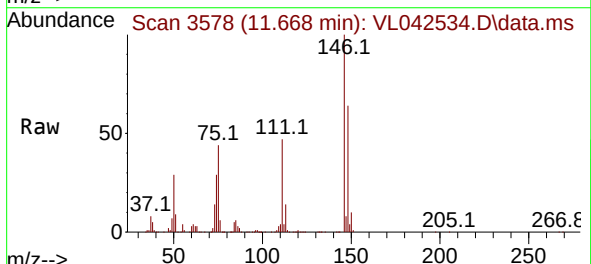
Manual Integrations
APPROVED

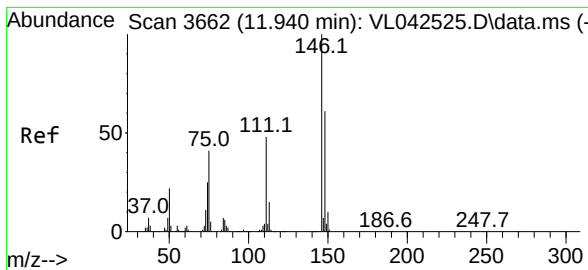
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



#76
1,4-Dichlorobenzene
Concen: 10.829 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. 0.006 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

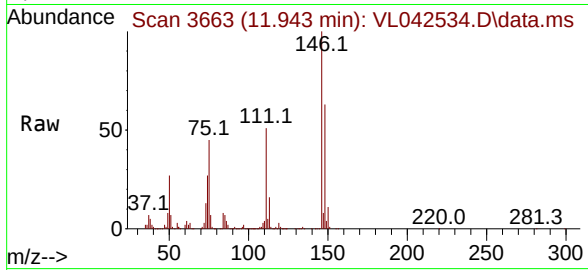
Tgt Ion:146 Resp: 280324
Ion Ratio Lower Upper
146 100
111 46.5 23.4 70.3
148 64.1 31.6 94.7





#77
1,2-Dichlorobenzene
Concen: 9.590 ppbv
RT: 11.943 min Scan# 30
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

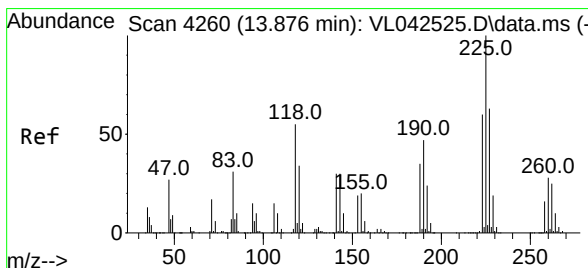
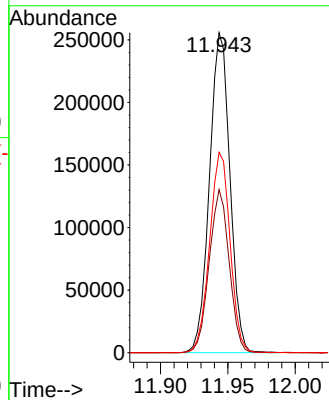
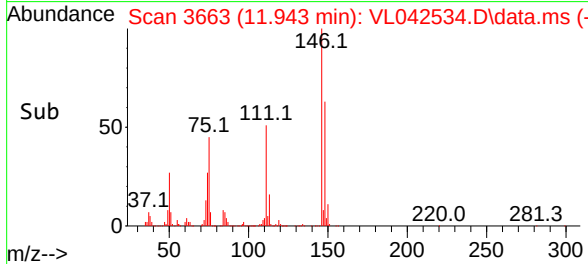
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



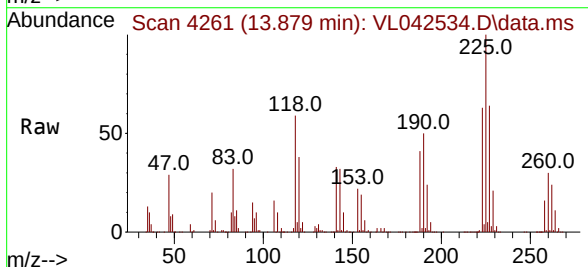
Tgt Ion:146 Resp: 269510
Ion Ratio Lower Upper
146 100
111 49.9 24.9 74.8
148 62.9 31.4 94.2

Manual Integrations
APPROVED

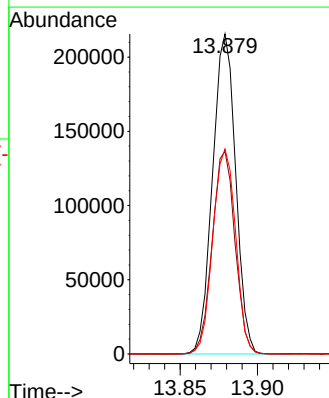
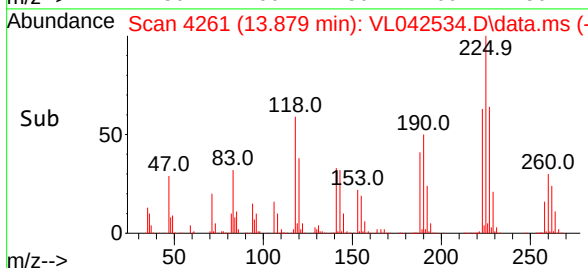
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

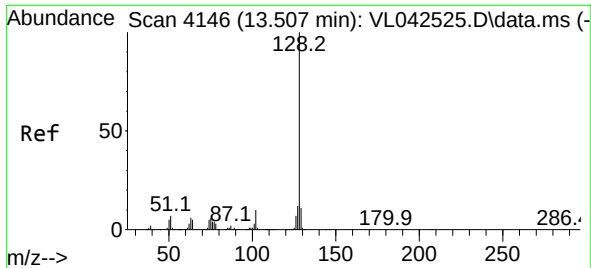


#78
Hexachloro-1,3-Butadiene
Concen: 9.265 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10



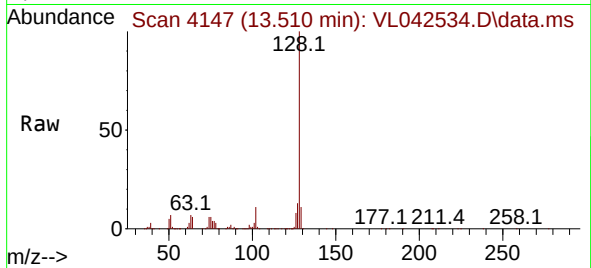
Tgt Ion:225 Resp: 223250
Ion Ratio Lower Upper
225 100
223 62.5 50.8 76.2
227 63.4 50.5 75.7





#79
Naphthalene
Concen: 15.035 ppbv
RT: 13.510 min Scan# 4146
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10

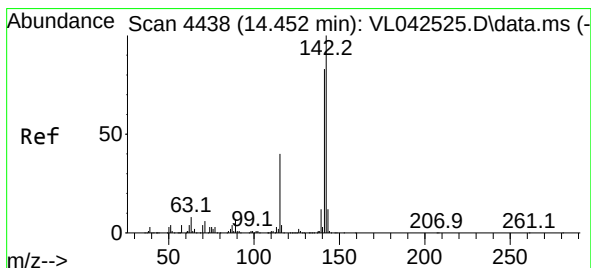
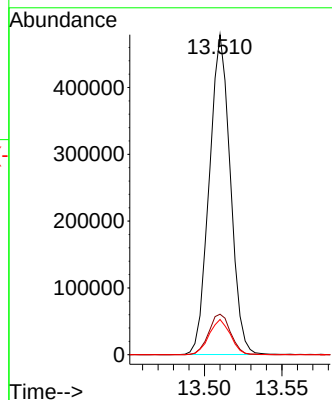
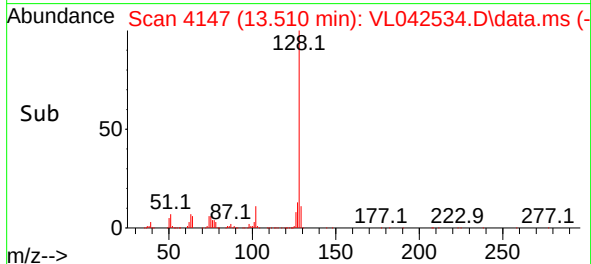
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051225



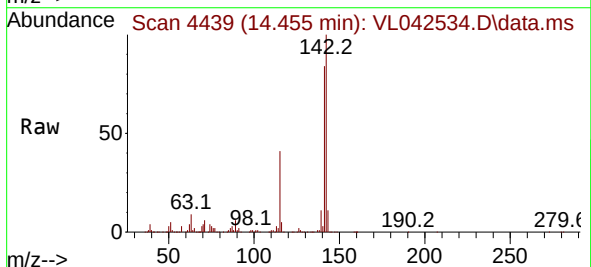
Tgt Ion:128 Resp: 452623
Ion Ratio Lower Upper
128 100
127 12.6 9.8 14.8
129 11.0 8.6 12.8

Manual Integrations
APPROVED

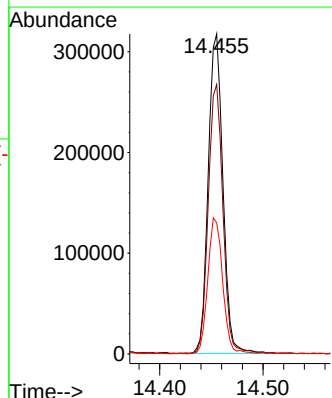
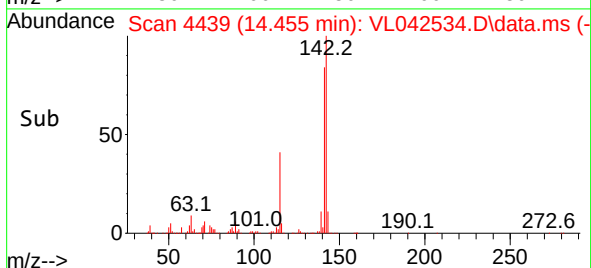
Reviewed By :Semsettin Yesilyurt 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

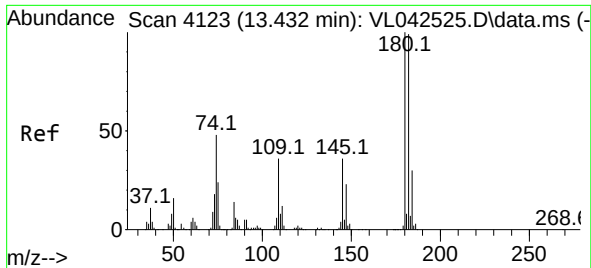


#80
Naphthalene,2-methyl-
Concen: 18.008 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.003 min
Lab File: VL042534.D
Acq: 12 May 2025 16:10



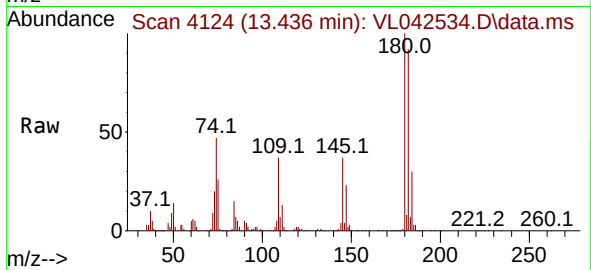
Tgt Ion:142 Resp: 312897
Ion Ratio Lower Upper
142 100
141 84.7 66.8 100.2
115 43.7 33.0 49.6





#81
 1,2,4-Trichlorobenzene
 Concen: 13.190 ppbv
 RT: 13.436 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042534.D
 Acq: 12 May 2025 16:10

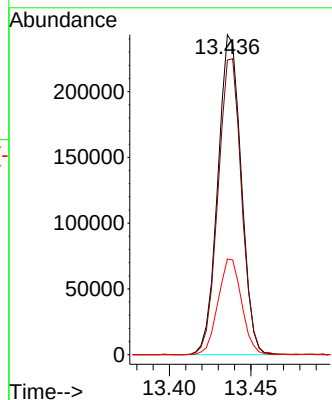
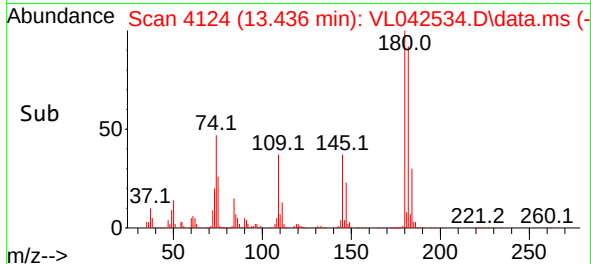
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051225



Tgt Ion:180 Resp: 241524
 Ion Ratio Lower Upper
 180 100
 182 93.7 76.6 114.8
 184 30.2 24.6 36.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042534.D
 Acq On : 12 May 2025 16:10
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL051225

Quant Time: May 13 02:12:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue May 13 02:07:03 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	90	0.00
2 T	Dichlorodifluoromethane	1.624	1.616	0.5	100	0.00
3	Chlorodifluoromethane	1.655	1.715	-3.6	101	0.00
4	Chloromethane	0.663	0.642	3.2	99	0.00
5 T	Vinyl Chloride	0.678	0.629	7.2	103	0.00
6 T	Bromomethane	0.322	0.315	2.2	98	0.00
7	Chloroethane	0.268	0.239	10.8	97	0.00
8 T	Dichlorotetrafluoroethane	1.397	1.354	3.1	99	0.00
9 T	Propene	0.359	0.359	0.0	365#	0.00
10 T	Heptane	1.371	1.688	-23.1	103	0.01
11 T	Trichlorofluoromethane	1.562	1.535	1.7	100	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.255	1.247	0.6	102	0.00
13	Ethanol	0.097	0.075	22.7	100	0.00
14 T	Bromoethene	0.457	0.475	-3.9	105	0.00
15 T	Acetone	1.612	1.342	16.7	100	0.00
16 T	1,3-Butadiene	0.719	0.713	0.8	100	0.00
17	tert-Butyl alcohol	1.477	1.533	-3.8	101	0.00
18 T	1,1-Dichloroethene	0.550	0.551	-0.2	101	0.00
19 T	Isopropyl Alcohol	0.868	0.877	-1.0	102	0.00
20 T	Methylene Chloride	0.556	0.485	12.8	103	0.00
21 T	Allyl Chloride	1.058	1.082	-2.3	99	0.00
22 T	trans-1,2-Dichloroethene	0.643	0.633	1.6	102	0.00
23 T	Vinyl Acetate	1.673	1.735	-3.7	97	0.00
24 T	1,1-Dichloroethane	1.244	1.234	0.8	98	0.00
25 T	Ethyl Acetate	2.806	3.197	-13.9	101	0.00
26 T	Hexane	1.152	1.391	-20.7	104	0.00
27 T	Carbon Disulfide	1.487	1.523	-2.4	98	0.00
28 T	Methyl tert-Butyl Ether	0.640	0.681	-6.4	102	0.00
29 T	Chloroform	2.389	2.369	0.8	101	0.00
30 T	Cyclohexane	0.946	1.200	-26.8	106	0.00
31 T	cis-1,2-Dichloroethene	1.301	1.492	-14.7	106	0.00
32 T	1,1,1-Trichloroethane	2.465	2.487	-0.9	100	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	90	0.00
34 T	2-Butanone	0.659	0.698	-5.9	105	0.00
35 T	Carbon Tetrachloride	0.899	0.894	0.6	100	0.00
36 T	Benzene	0.886	0.980	-10.6	105	0.00
37 T	1,2-Dichloroethane	0.632	0.641	-1.4	102	0.00
38 T	Trichloroethene	0.385	0.403	-4.7	101	0.01
39 T	1,2-Dichloropropane	0.330	0.343	-3.9	100	0.00
40 T	1,4-Dioxane	0.134	0.152	-13.4	102	0.01
41 T	Tetrahydrofuran	0.285	0.351	-23.2	103	0.00
42 T	Bromodichloromethane	0.844	0.873	-3.4	101	0.00
43	Methyl Methacrylate	0.297	0.373	-25.6	105	0.01
44 T	2,2,4-Trimethylpentane	1.404	1.582	-12.7	100	0.00
45 T	t-1,3-Dichloropropene	0.379	0.472	-24.5	106	0.01
46 T	cis-1,3-Dichloropropene	0.456	0.563	-23.5	105	0.01
47 T	1,1,2-Trichloroethane	0.389	0.396	-1.8	102	0.01
48 T	Dibromochloromethane	0.649	0.693	-6.8	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042534.D
 Acq On : 12 May 2025 16:10
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051225

Quant Time: May 13 02:12:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue May 13 02:07:03 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	0.533	0.580	-8.8	100	0.00
50 T	4-Methyl-2-Pentanone	0.774	0.919	-18.7	100	0.00
51 T	2-Hexanone	0.576	0.759	-31.8#	104	0.00
52 T	Tetrachloroethene	0.339	0.352	-3.8	101	0.00
53 T	Toluene	0.870	1.089	-25.2	103	0.01
54 T	1,2-Dibromoethane	0.568	0.600	-5.6	102	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00
56	1,1,1,2-Tetrachloroethane	0.620	0.582	6.1	97	0.00
57 T	Chlorobenzene	1.004	0.993	1.1	100	0.00
58 T	Ethyl Benzene	1.363	1.764	-29.4	104	0.00
59 T	m/p-Xylene	1.211	1.453	-20.0	100	0.00
60 T	o-Xylene	1.182	1.477	-25.0	102	0.00
61 T	Styrene	0.438	0.601	-37.2#	109	0.00
62	Isopropylbenzene	1.780	2.133	-19.8	102	0.00
63 T	1,1,2,2-Tetrachloroethane	0.959	0.885	7.7	99	0.00
64	n-propylbenzene	0.452	0.542	-19.9	99	0.00
65	tert-Butylbenzene	1.635	1.956	-19.6	101	0.00
66 T	Benzyl Chloride	0.217	0.286	-31.8#	118	0.00
67	sec-Butylbenzene	2.344	2.645	-12.8	98	0.00
68 S	1-Bromo-4-Fluorobenzene	0.870	0.858	1.4	91	0.00
69	p-Isopropyltoluene	1.927	2.297	-19.2	98	0.00
70	n-Butylbenzene	1.904	2.322	-22.0	100	0.00
71	2-Chlorotoluene	1.348	1.666	-23.6	103	0.00
72 T	4-Ethyltoluene	1.466	1.824	-24.4	102	0.00
73 T	1,3,5-Trimethylbenzene	1.277	1.521	-19.1	99	0.00
74 T	1,2,4-Trimethylbenzene	1.572	1.726	-9.8	98	0.00
75 T	1,3-Dichlorobenzene	0.984	1.031	-4.8	100	0.00
76 T	1,4-Dichlorobenzene	0.936	1.014	-8.3	100	0.00
77 T	1,2-Dichlorobenzene	1.017	0.975	4.1	99	0.00
78 T	Hexachloro-1,3-Butadiene	0.872	0.808	7.3	102	0.00
79 T	Naphthalene	1.089	1.637	-50.3#	110	0.00
80 T	Naphthalene,2-methyl-	0.629	1.132	-80.0#	135	0.00
81 T	1,2,4-Trichlorobenzene	0.662	0.874	-32.0#	111	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042534.D
 Acq On : 12 May 2025 16:10
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL051225

Quant Time: May 13 02:12:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue May 13 02:07:03 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	90	0.00
2 T	Dichlorodifluoromethane	10.000	9.952	0.5	100	0.00
3	Chlorodifluoromethane	10.000	10.365	-3.7	101	0.00
4	Chloromethane	10.000	9.691	3.1	99	0.00
5 T	Vinyl Chloride	10.000	9.270	7.3	103	0.00
6 T	Bromomethane	10.000	9.781	2.2	98	0.00
7	Chloroethane	10.000	8.935	10.6	97	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.693	3.1	99	0.00
9 T	Propene	10.000	9.995	0.1	365	0.00
10 T	Heptane	10.000	12.306	-23.1	103	0.01
11 T	Trichlorofluoromethane	10.000	9.828	1.7	100	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.942	0.6	102	0.00
13	Ethanol	10.000	7.769	22.3	100	0.00
14 T	Bromoethene	10.000	10.383	-3.8	105	0.00
15 T	Acetone	10.000	8.325	16.8	100	0.00
16 T	1,3-Butadiene	10.000	9.920	0.8	100	0.00
17	tert-Butyl alcohol	10.000	10.379	-3.8	101	0.00
18 T	1,1-Dichloroethene	10.000	10.028	-0.3	101	0.00
19 T	Isopropyl Alcohol	10.000	10.098	-1.0	102	0.00
20 T	Methylene Chloride	10.000	8.718	12.8	103	0.00
21 T	Allyl Chloride	10.000	10.227	-2.3	99	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.849	1.5	102	0.00
23 T	Vinyl Acetate	10.000	10.371	-3.7	97	0.00
24 T	1,1-Dichloroethane	10.000	9.919	0.8	98	0.00
25 T	Ethyl Acetate	10.000	11.394	-13.9	101	0.00
26 T	Hexane	10.000	12.078	-20.8	104	0.00
27 T	Carbon Disulfide	10.000	10.243	-2.4	98	0.00
28 T	Methyl tert-Butyl Ether	10.000	10.640	-6.4	102	0.00
29 T	Chloroform	10.000	9.916	0.8	101	0.00
30 T	Cyclohexane	10.000	12.687	-26.9	106	0.00
31 T	cis-1,2-Dichloroethene	10.000	11.469	-14.7	106	0.00
32 T	1,1,1-Trichloroethane	10.000	10.089	-0.9	100	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	90	0.00
34 T	2-Butanone	10.000	10.593	-5.9	105	0.00
35 T	Carbon Tetrachloride	10.000	9.944	0.6	100	0.00
36 T	Benzene	10.000	11.060	-10.6	105	0.00
37 T	1,2-Dichloroethane	10.000	10.133	-1.3	102	0.00
38 T	Trichloroethene	10.000	10.461	-4.6	101	0.01
39 T	1,2-Dichloropropane	10.000	10.381	-3.8	100	0.00
40 T	1,4-Dioxane	10.000	11.326	-13.3	102	0.01
41 T	Tetrahydrofuran	10.000	12.288	-22.9	103	0.00
42 T	Bromodichloromethane	10.000	10.344	-3.4	101	0.00
43	Methyl Methacrylate	10.000	12.553	-25.5	105	0.01
44 T	2,2,4-Trimethylpentane	10.000	11.264	-12.6	100	0.00
45 T	t-1,3-Dichloropropene	10.000	12.452	-24.5	106	0.01
46 T	cis-1,3-Dichloropropene	10.000	12.337	-23.4	105	0.01
47 T	1,1,2-Trichloroethane	10.000	10.192	-1.9	102	0.01
48 T	Dibromochloromethane	10.000	10.680	-6.8	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042534.D
 Acq On : 12 May 2025 16:10
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051225

Quant Time: May 13 02:12:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue May 13 02:07:03 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)

49 T	Bromoform	10.000	10.893	-8.9	100	0.00
50 T	4-Methyl-2-Pentanone	10.000	11.865	-18.7	100	0.00
51 T	2-Hexanone	10.000	13.181	-31.8#	104	0.00
52 T	Tetrachloroethene	10.000	10.391	-3.9	101	0.00
53 T	Toluene	10.000	12.519	-25.2	103	0.01
54 T	1,2-Dibromoethane	10.000	10.565	-5.6	102	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	92	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.389	6.1	97	0.00
57 T	Chlorobenzene	10.000	9.890	1.1	100	0.00
58 T	Ethyl Benzene	10.000	12.941	-29.4	104	0.00
59 T	m/p-Xylene	20.000	24.002	-20.0	100	0.00
60 T	o-Xylene	10.000	12.495	-24.9	102	0.00
61 T	Styrene	10.000	13.737	-37.4#	109	0.00
62	Isopropylbenzene	10.000	11.978	-19.8	102	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	9.228	7.7	99	0.00
64	n-propylbenzene	10.000	11.993	-19.9	99	0.00
65	tert-Butylbenzene	10.000	11.963	-19.6	101	0.00
66 T	Benzyl Chloride	10.000	13.151	-31.5#	118	0.00
67	sec-Butylbenzene	10.000	11.283	-12.8	98	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	9.861	1.4	91	0.00
69	p-Isopropyltoluene	10.000	11.921	-19.2	98	0.00
70	n-Butylbenzene	10.000	12.192	-21.9	100	0.00
71	2-Chlorotoluene	10.000	12.354	-23.5	103	0.00
72 T	4-Ethyltoluene	10.000	12.435	-24.4	102	0.00
73 T	1,3,5-Trimethylbenzene	10.000	11.906	-19.1	99	0.00
74 T	1,2,4-Trimethylbenzene	10.000	10.983	-9.8	98	0.00
75 T	1,3-Dichlorobenzene	10.000	10.479	-4.8	100	0.00
76 T	1,4-Dichlorobenzene	10.000	10.829	-8.3	100	0.00
77 T	1,2-Dichlorobenzene	10.000	9.590	4.1	99	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	9.265	7.3	102	0.00
79 T	Naphthalene	10.000	15.035	-50.4#	110	0.00
80 T	Naphthalene,2-methyl-	10.000	18.008	-80.1#	135	0.00
81 T	1,2,4-Trichlorobenzene	10.000	13.190	-31.9#	111	0.00

(#) = Out of Range

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q2011 SAS No.: Q2011 SDG No.: Q2011

Instrument ID: MSVOA_L Calibration Date/Time: 05/14/2025 10:23

Lab File ID: VL042536.D Init. Calib. Date(s): 05/12/2025 05/12/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:57 14:28

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.678	0.550		-18.88	30
1,1-Dichloroethane	1.244	1.181		-5.06	30
cis-1,2-Dichloroethene	1.301	1.220		-6.23	30
1,1,1-Trichloroethane	2.465	2.166		-12.13	30
Trichloroethene	0.385	0.350		-9.09	30
Tetrachloroethene	0.339	0.304		-10.32	30
1-Bromo-4-Fluorobenzene	0.870	0.871		0.12	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\VL051425\
 Data File : VL042536.D
 Acq On : 14 May 2025 10:23
 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 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025

Quant Time: May 15 01:31:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

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

QLast Update : Tue May 13 02:07:03 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	118016	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.962	114	346885	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.885	117	301246	10.000	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 262420 10.012 ppbv 0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	171613	8.955	ppbv	98
3) Chlorodifluoromethane	1.476	51	178542	9.142	ppbv	99
4) Chloromethane	1.535	50	70011	8.951	ppbv	94
5) Vinyl Chloride	1.580	62	64926	8.113	ppbv	99
6) Bromomethane	1.671	94	34232	9.007	ppbv	94
7) Chloroethane	1.706	64	25275	7.999	ppbv	95
8) Dichlorotetrafluoroethane	1.554	85	145026	8.795	ppbv	97
9) Propene	1.486	41	58640m	13.846	ppbv	
10) Heptane	4.985	43	167648	10.358	ppbv	100
11) Trichlorofluoromethane	1.878	101	174991	9.493	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.143	101	140590	9.496	ppbv	99
13) Ethanol	1.722	45	8187	7.187	ppbv	95
14) Bromoethene	1.784	108	49951	9.254	ppbv	99
15) Acetone	1.836	43	144309	7.586	ppbv	99
16) 1,3-Butadiene	1.609	39	76085	8.972	ppbv	97
17) tert-Butyl alcohol	2.043	59	167624	9.620	ppbv	99
18) 1,1-Dichloroethene	2.036	96	62337	9.607	ppbv	97
19) Isopropyl Alcohol	1.888	45	93610	9.138	ppbv	100
20) Methylene Chloride	2.062	84	55969	8.523	ppbv	98
21) Allyl Chloride	2.098	41	119972	9.609	ppbv	98
22) trans-1,2-Dichloroethene	2.344	96	70366	9.270	ppbv	92
23) Vinyl Acetate	2.464	43	194509	9.852	ppbv #	99
24) 1,1-Dichloroethane	2.412	63	139379	9.491	ppbv	98
25) Ethyl Acetate	2.839	43	320825	9.689	ppbv	100
26) Hexane	2.826	57	142712	10.498	ppbv	95
27) Carbon Disulfide	2.153	76	173546	9.889	ppbv	97
28) Methyl tert-Butyl Ether	2.444	73	84256	11.156	ppbv	96
29) Chloroform	2.852	83	250373	8.880	ppbv	98
30) Cyclohexane	3.862	84	117210	10.502	ppbv	99
31) cis-1,2-Dichloroethene	2.723	61	144036	9.383	ppbv	94
32) 1,1,1-Trichloroethane	3.370	97	255645	8.787	ppbv	97
34) 2-Butanone	2.557	43	198101	8.664	ppbv	100
35) Carbon Tetrachloride	3.765	117	279020	8.947	ppbv	98
36) Benzene	3.661	78	292705	9.521	ppbv	99
37) 1,2-Dichloroethane	3.221	62	194846	8.885	ppbv	99
38) Trichloroethene	4.551	130	121523	9.092	ppbv	98
39) 1,2-Dichloropropane	4.318	63	102683	8.967	ppbv	94
40) 1,4-Dioxane	4.584	88	45600	9.810	ppbv #	90
41) Tetrahydrofuran	3.056	42	103053	10.412	ppbv	99
42) Bromodichloromethane	4.493	83	268737	9.183	ppbv	94
43) Methyl Methacrylate	4.888	69	107482m	10.440	ppbv	
44) 2,2,4-Trimethylpentane	4.645	57	482249	9.900	ppbv	99
45) t-1,3-Dichloropropene	6.419	75	135101	10.271	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
 Data File : VL042536.D
 Acq On : 14 May 2025 10:23
 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 05/15/2025
 Supervised By : Mahesh Dadoda 05/15/2025

Quant Time: May 15 01:31:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

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

QLast Update : Tue May 13 02:07:03 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	162473	10.268	ppbv	94
47) 1,1,2-Trichloroethane	6.587	97	121339	8.999	ppbv	97
48) Dibromochloromethane	7.393	129	214390	9.523	ppbv	98
49) Bromoform	9.487	173	180872	9.790	ppbv	99
50) 4-Methyl-2-Pentanone	5.759	43	277297	10.326	ppbv	99
51) 2-Hexanone	7.442	43	226925	11.360	ppbv #	99
52) Tetrachloroethene	8.231	164	105432	8.964	ppbv	97
53) Toluene	6.940	91	324628	10.761	ppbv	99
54) 1,2-Dibromoethane	7.655	107	182645	9.275	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.930	131	166298	8.904	ppbv	98
57) Chlorobenzene	8.927	112	271874	8.989	ppbv	96
58) Ethyl Benzene	9.361	91	470778	11.466	ppbv	90
59) m/p-Xylene	9.558	91	796362m	21.838	ppbv	
60) o-Xylene	9.966	91	400752	11.253	ppbv	99
61) Styrene	9.876	104	155757	11.809	ppbv	99
62) Isopropylbenzene	10.542	105	582836	10.866	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	247714	8.570	ppbv	100
64) n-propylbenzene	10.992	120	149494	10.978	ppbv	97
65) tert-Butylbenzene	11.536	119	531415	10.790	ppbv	100
66) Benzyl Chloride	11.620	91	68005	10.391	ppbv	97
67) sec-Butylbenzene	11.772	105	733701	10.390	ppbv	100
69) p-Isopropyltoluene	11.928	119	641428	11.049	ppbv	100
70) n-Butylbenzene	12.284	91	637479	11.113	ppbv	99
71) 2-Chlorotoluene	10.905	91	449790	11.075	ppbv	99
72) 4-Ethyltoluene	11.128	105	497072	11.252	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	417484	10.849	ppbv	100
74) 1,2,4-Trimethylbenzene	11.539	105	474163	10.016	ppbv	93
75) 1,3-Dichlorobenzene	11.610	146	280626	9.464	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	280915	9.958	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	272842	8.908	ppbv	99
78) Hexachloro-1,3-Butadiene	13.886	225	225532	8.588	ppbv	99
79) Naphthalene	13.517	128	441576	13.459	ppbv	96
80) Naphthalene,2-methyl-	14.459	142	275041	14.525	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	227198	11.385	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
 Data File : VL042536.D
 Acq On : 14 May 2025 10:23
 Operator : SY/MD
 Sample : VSTDC0010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDC0010

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 05/15/2025
 Supervised By : Mahesh Dadoda 05/15/2025

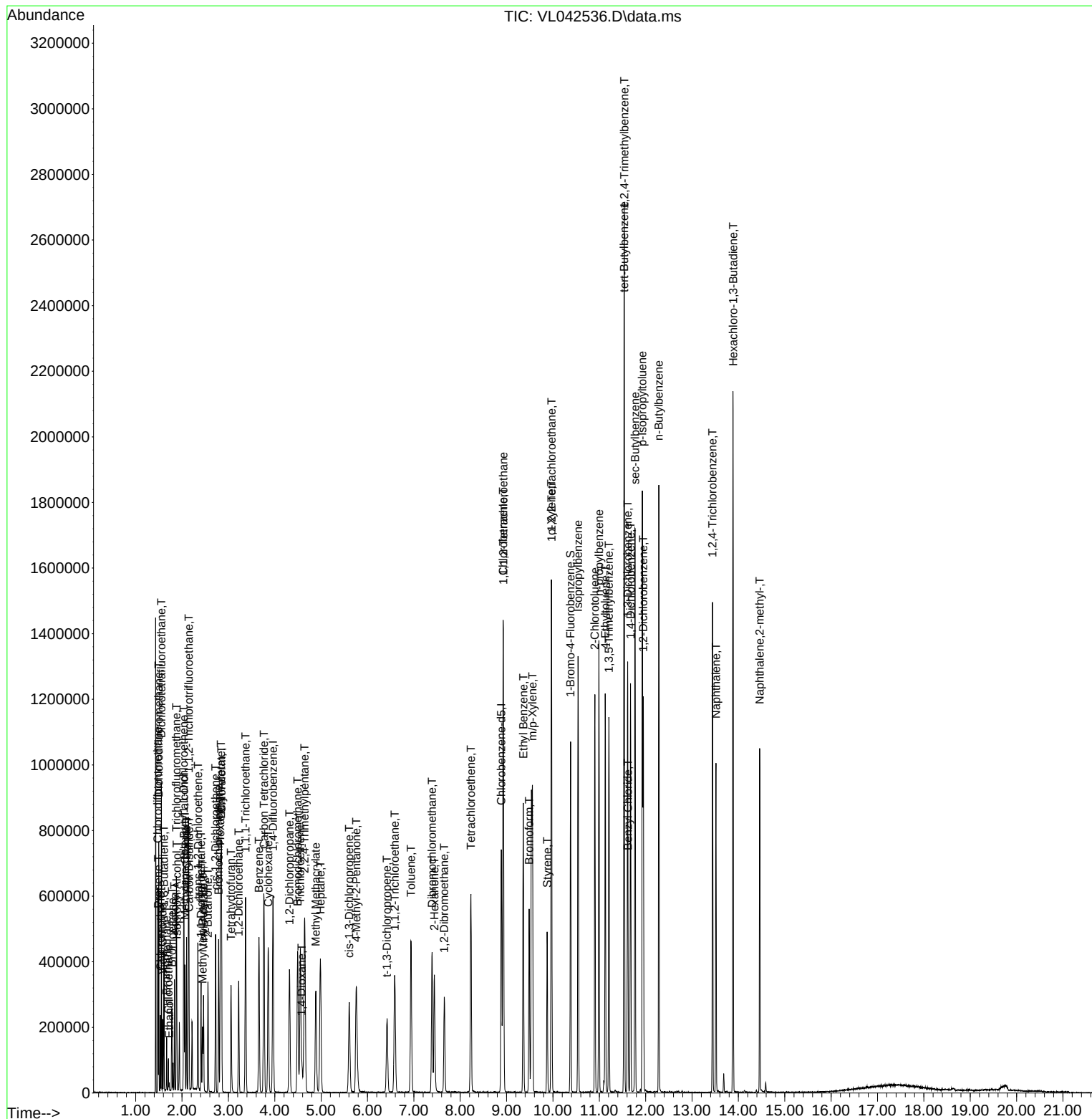
Quant Time: May 15 01:31:30 2025

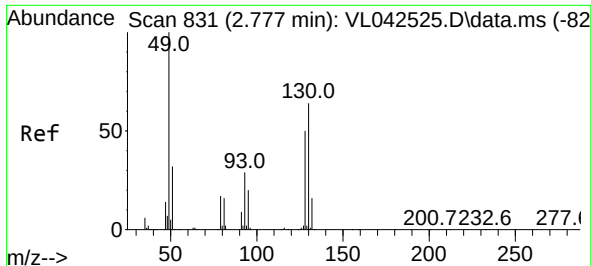
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

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

QLast Update : Tue May 13 02:07:03 2025

Response via : Initial Calibration





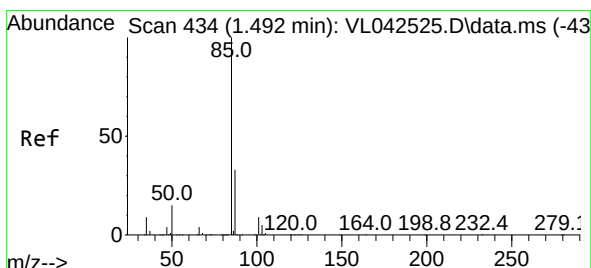
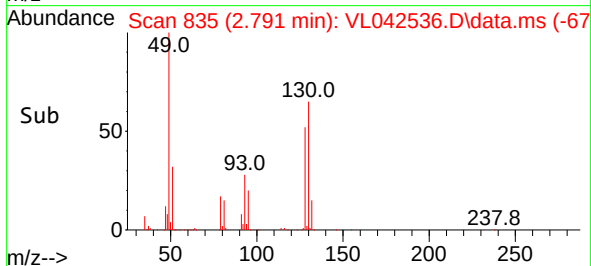
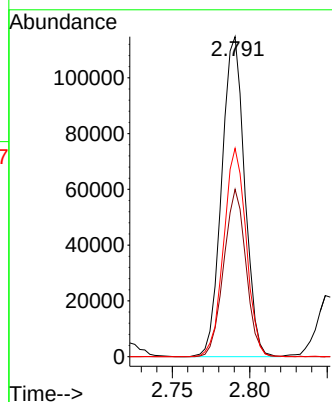
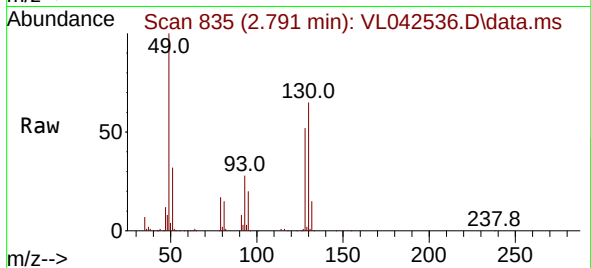
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 81
Delta R.T. 0.014 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 49 Resp: 118010
Ion Ratio Lower Upper
49 100
128 50.7 24.9 74.6
130 64.0 32.5 97.5

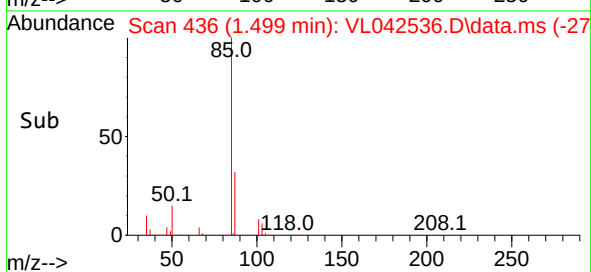
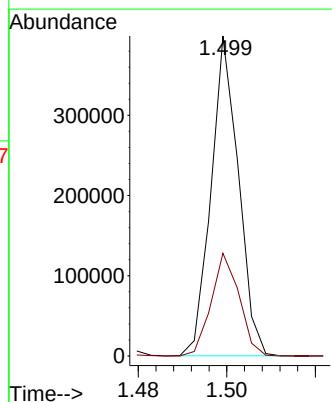
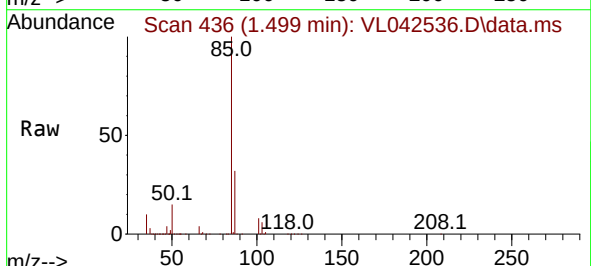
Manual Integrations
APPROVED

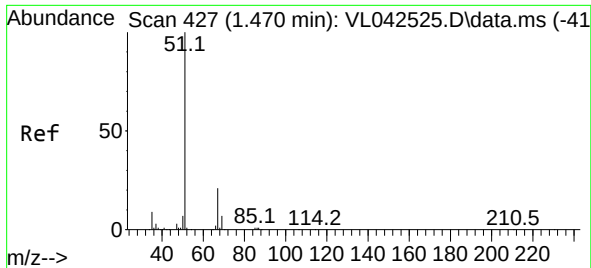
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#2
Dichlorodifluoromethane
Concen: 8.955 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.007 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

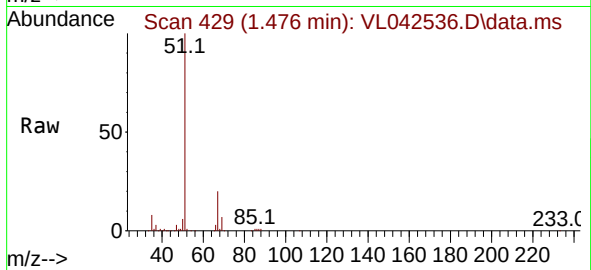
Tgt Ion: 85 Resp: 171613
Ion Ratio Lower Upper
85 100
87 32.1 26.8 40.2





#3
Chlorodifluoromethane
Concen: 9.142 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.007 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

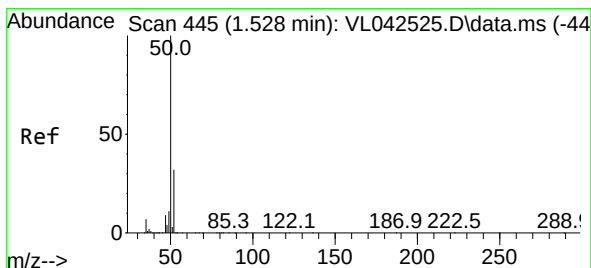
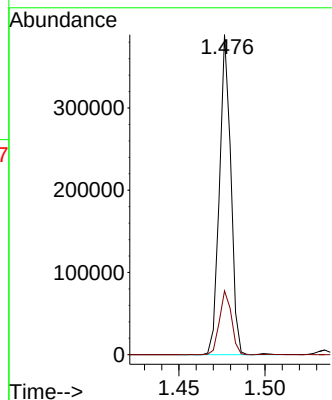
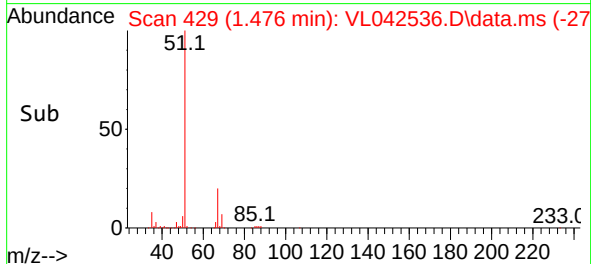
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



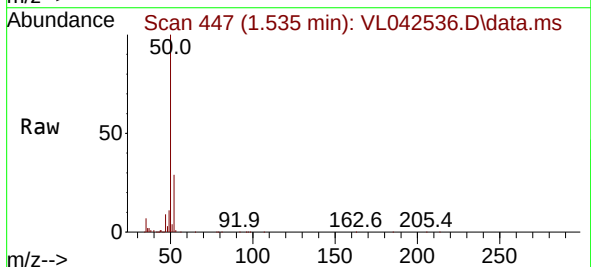
Tgt Ion: 51 Resp: 17854
Ion Ratio Lower Upper
51 100
67 21.3 17.4 26.0

Manual Integrations
APPROVED

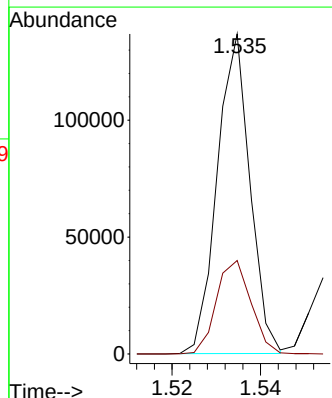
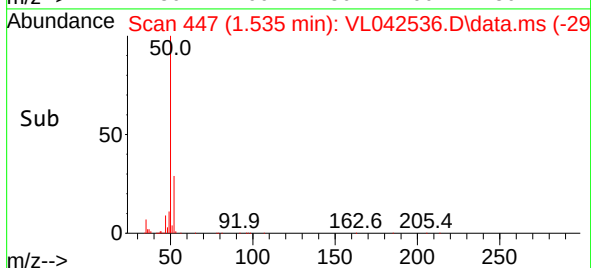
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

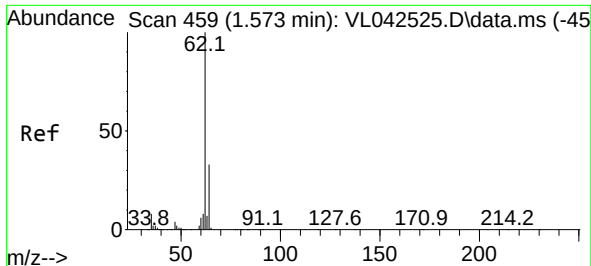


#4
Chloromethane
Concen: 8.951 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.007 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23



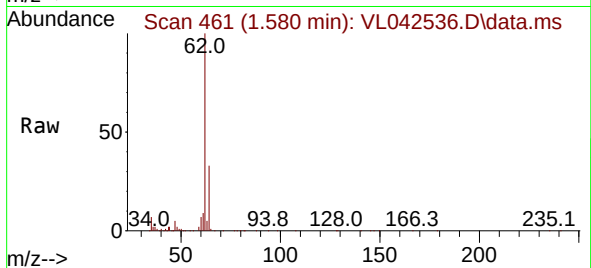
Tgt Ion: 50 Resp: 70011
Ion Ratio Lower Upper
50 100
52 29.2 25.9 38.9





#5
 Vinyl Chloride
 Concen: 8.113 ppbv
 RT: 1.580 min Scan# 40
 Delta R.T. 0.007 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

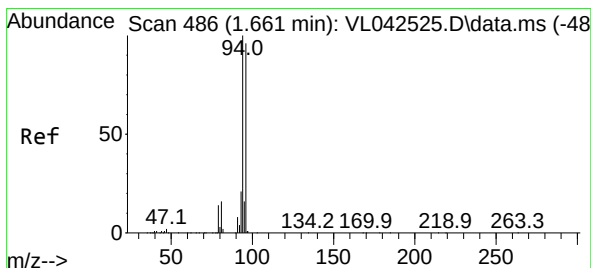
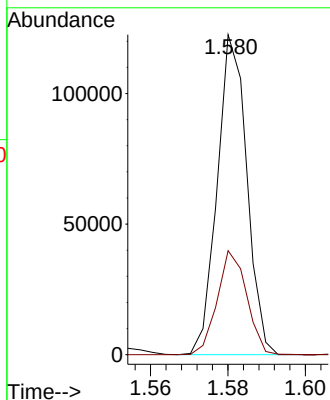
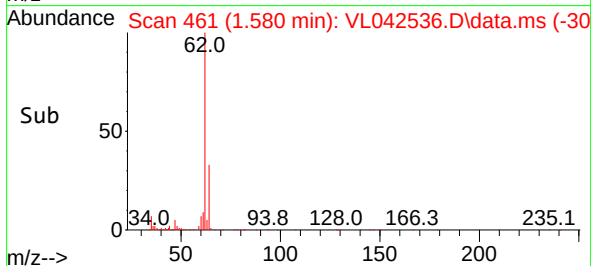
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



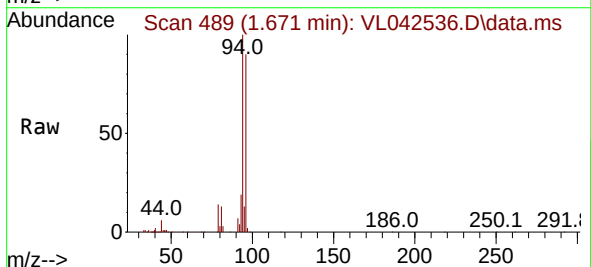
Tgt Ion: 62 Resp: 64920
 Ion Ratio Lower Upper
 62 100
 64 32.5 26.5 39.7

Manual Integrations
 APPROVED

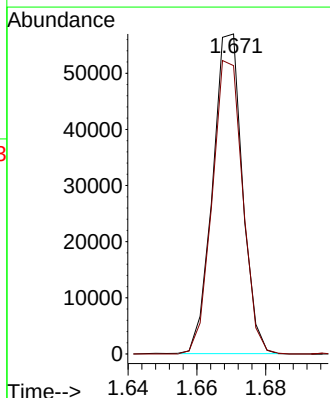
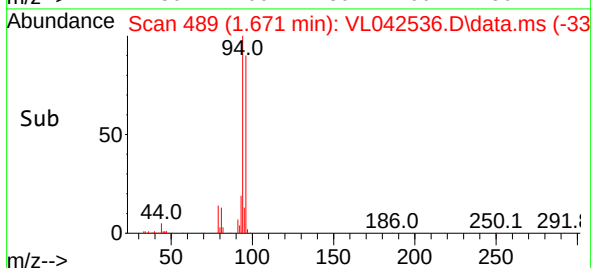
Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025

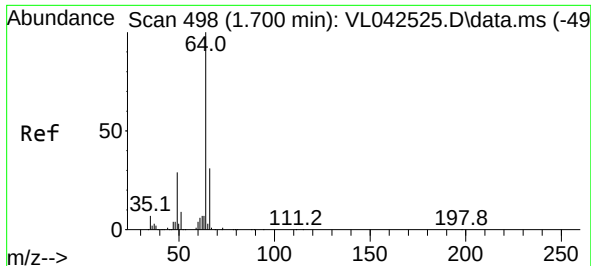


#6
 Bromomethane
 Concen: 9.007 ppbv
 RT: 1.671 min Scan# 489
 Delta R.T. 0.010 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23



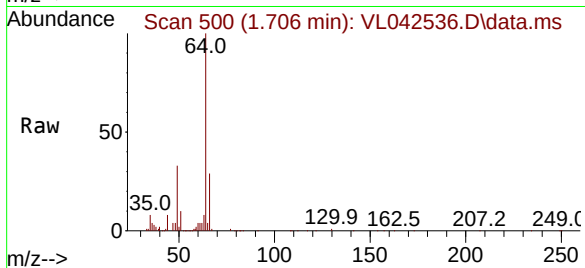
Tgt Ion: 94 Resp: 34232
 Ion Ratio Lower Upper
 94 100
 96 90.2 76.9 115.3





#7
Chloroethane
Concen: 7.999 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.007 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

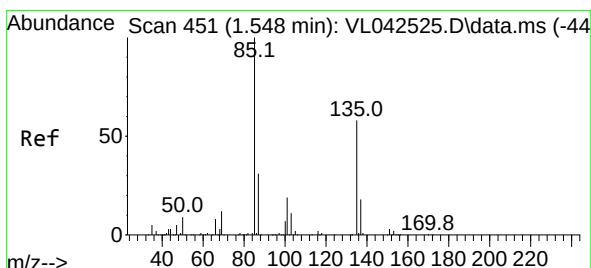
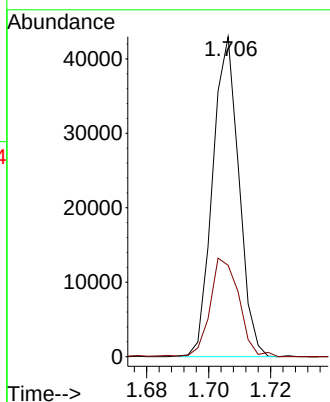
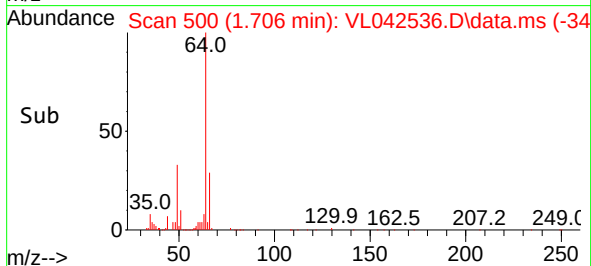
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



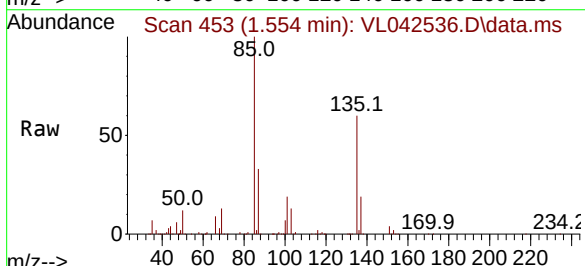
Tgt Ion: 64 Resp: 25275
Ion Ratio Lower Upper
64 100
66 28.6 25.1 37.7

Manual Integrations
APPROVED

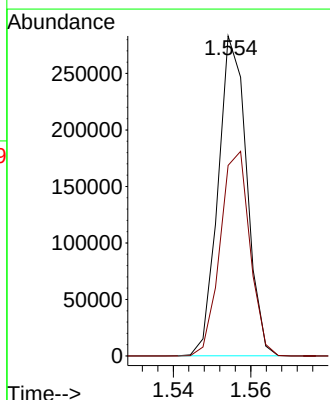
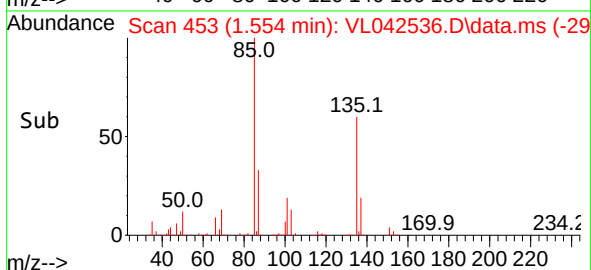
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

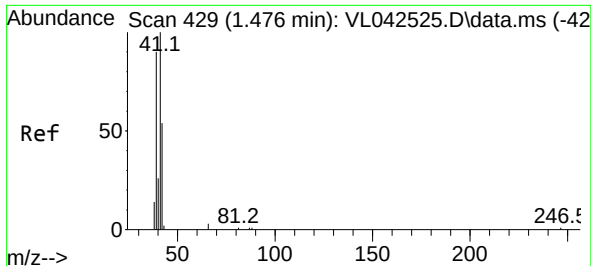


#8
Dichlorotetrafluoroethane
Concen: 8.795 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.007 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23



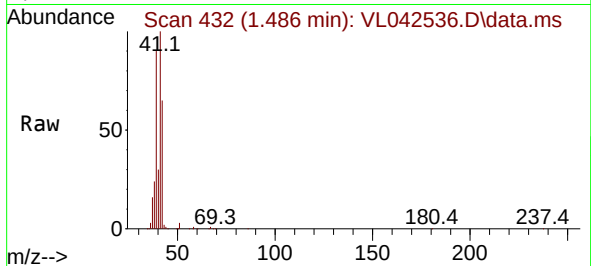
Tgt Ion: 85 Resp: 145026
Ion Ratio Lower Upper
85 100
135 66.9 51.8 77.8





#9
 Propene
 Concen: 13.846 ppbv m
 RT: 1.486 min Scan# 41
 Delta R.T. 0.010 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

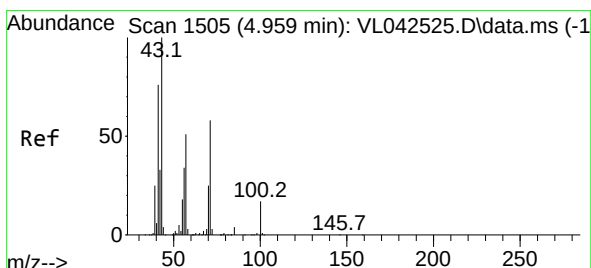
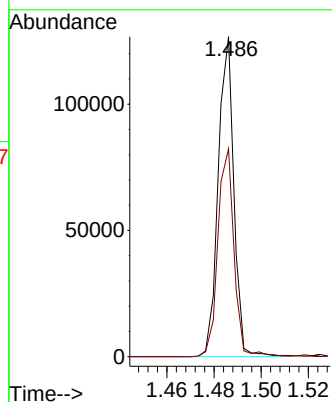
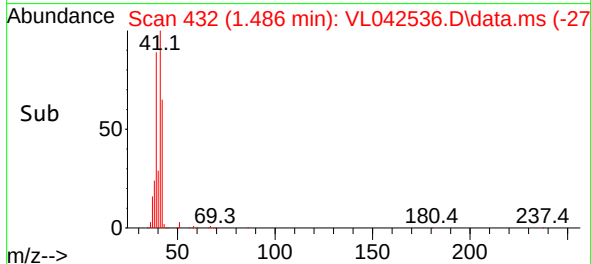
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



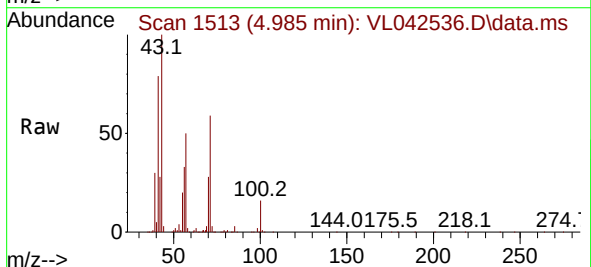
Tgt Ion: 41 Resp: 58640
 Ion Ratio Lower Upper
 41 100
 42 4.4 4.1 6.1

Manual Integrations
 APPROVED

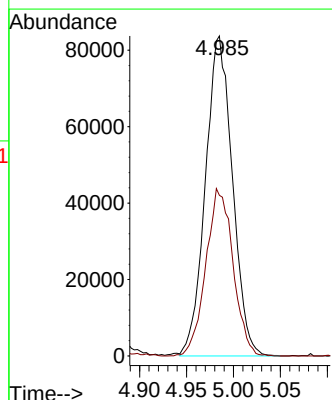
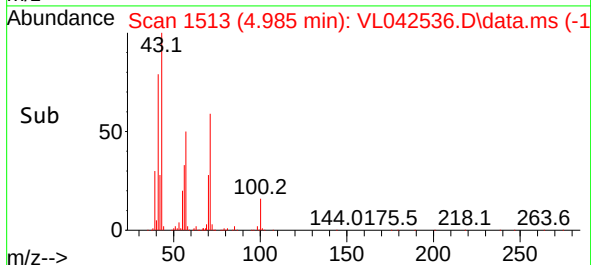
Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025

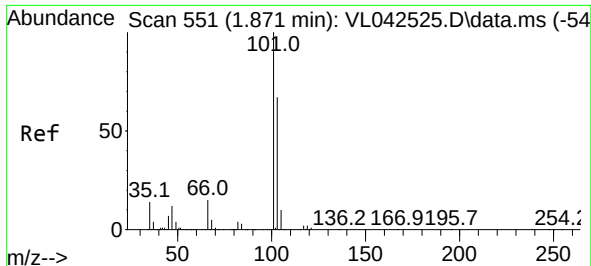


#10
 Heptane
 Concen: 10.358 ppbv
 RT: 4.985 min Scan# 1513
 Delta R.T. 0.026 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23



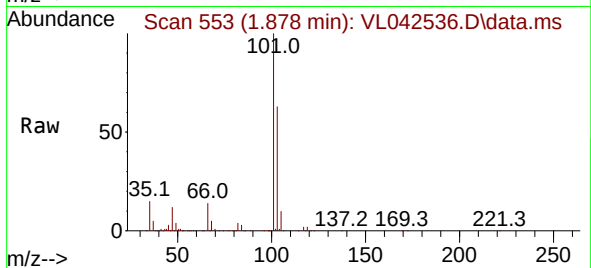
Tgt Ion: 43 Resp: 167648
 Ion Ratio Lower Upper
 43 100
 57 52.5 42.1 63.1





#11
Trichlorofluoromethane
Concen: 9.493 ppbv
RT: 1.878 min Scan# 511
Delta R.T. 0.007 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

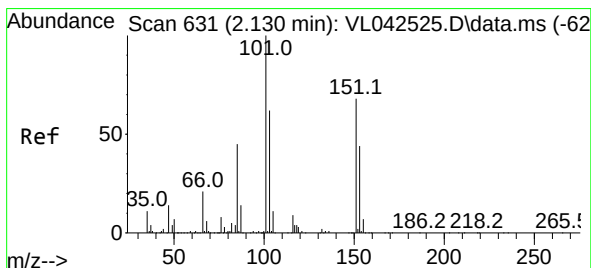
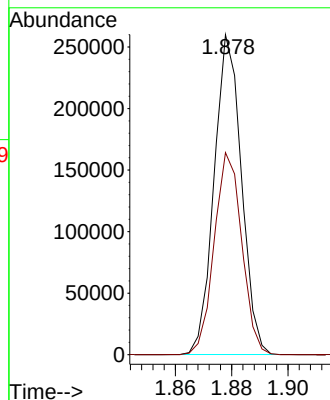
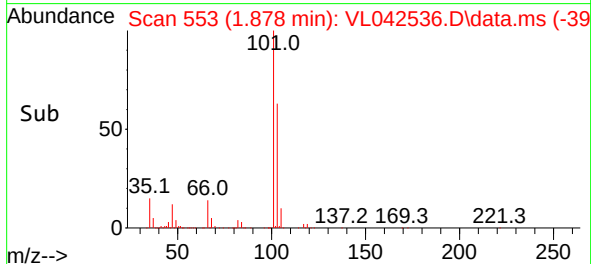
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



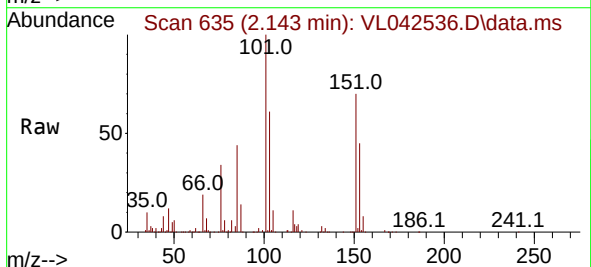
Tgt Ion:101 Resp: 17499
Ion Ratio Lower Upper
101 100
103 63.2 53.8 80.6

Manual Integrations
APPROVED

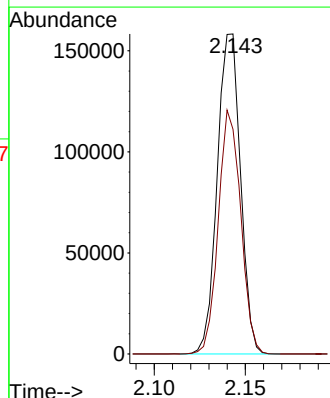
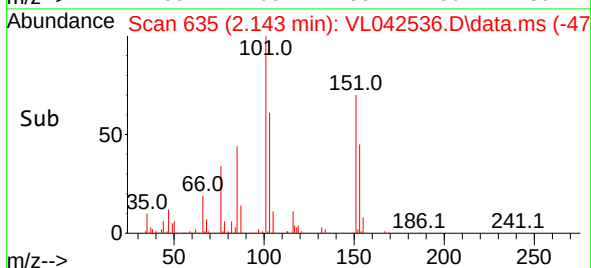
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

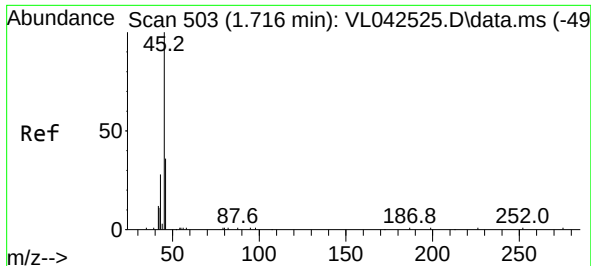


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.496 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.013 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23



Tgt Ion:101 Resp: 140590
Ion Ratio Lower Upper
101 100
151 73.4 57.8 86.8





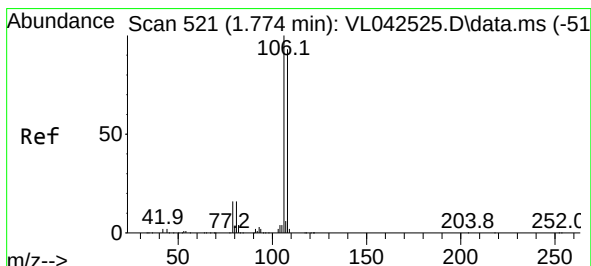
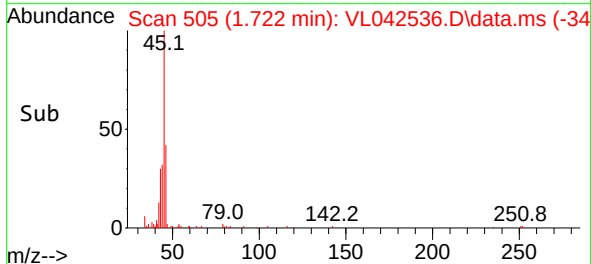
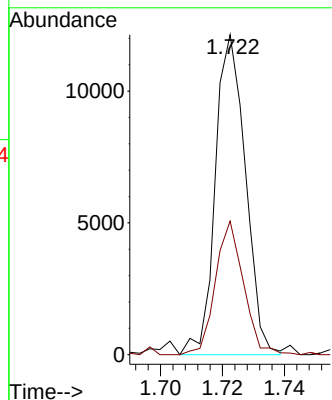
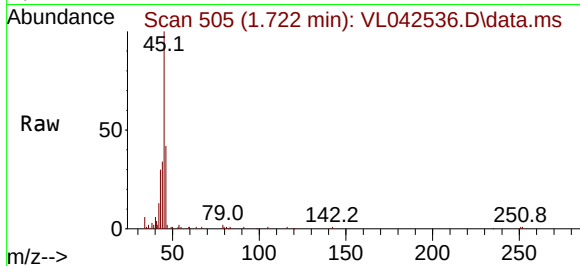
#13
Ethanol
Concen: 7.187 ppbv
RT: 1.722 min Scan# 503
Delta R.T. 0.007 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 818
Ion Ratio Lower Upper
45 100
46 40.0 14.8 59.4

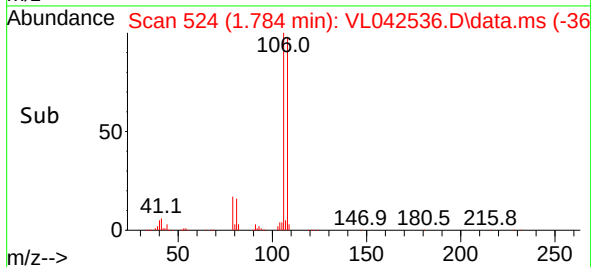
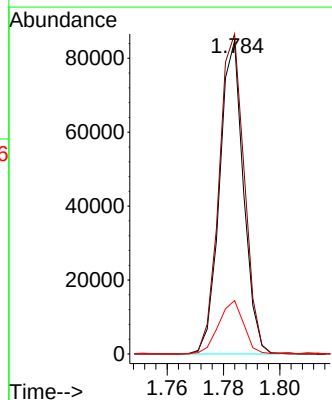
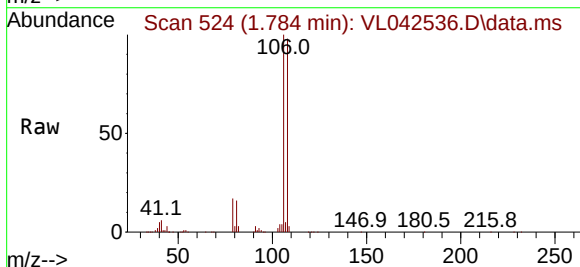
Manual Integrations
APPROVED

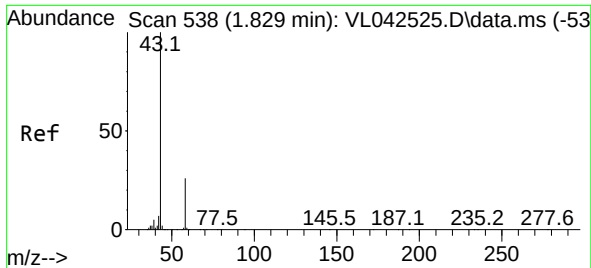
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#14
Bromoethene
Concen: 9.254 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.010 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

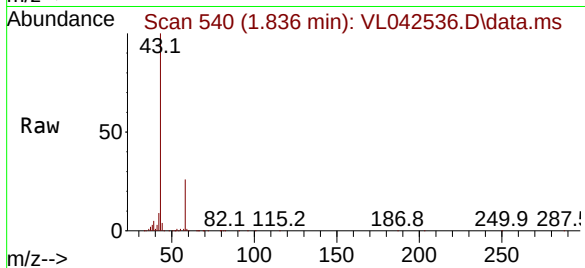
Tgt Ion:108 Resp: 49951
Ion Ratio Lower Upper
108 100
106 107.9 87.4 131.2
79 18.6 15.1 22.7





#15
Acetone
Concen: 7.586 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.007 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

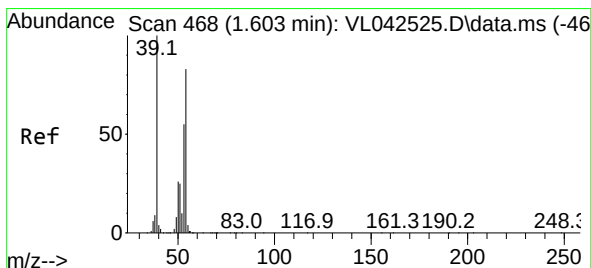
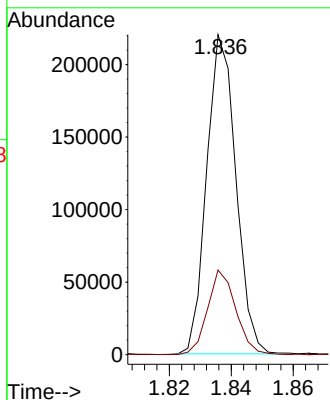
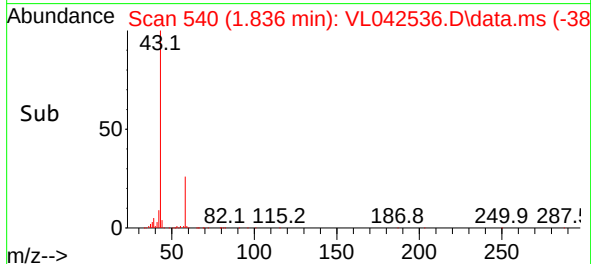
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



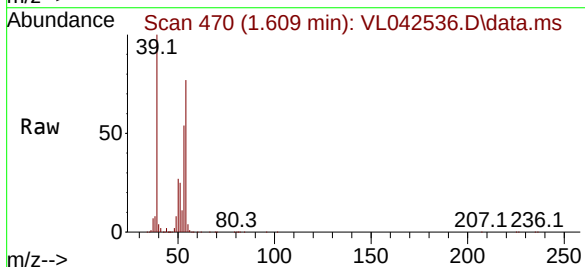
Tgt Ion: 43 Resp: 144309
Ion Ratio Lower Upper
43 100
58 25.9 21.3 31.9

Manual Integrations
APPROVED

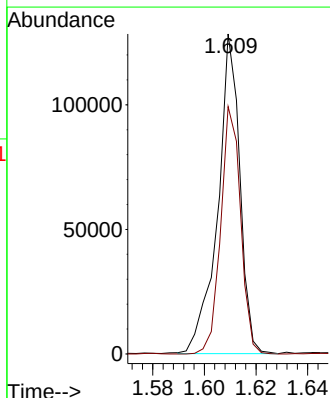
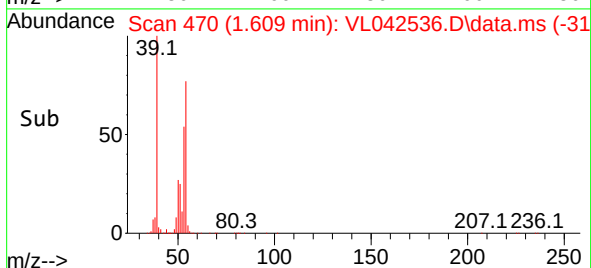
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

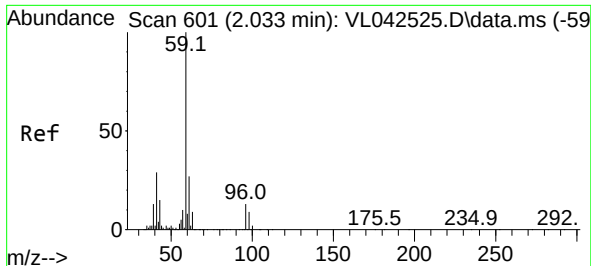


#16
1,3-Butadiene
Concen: 8.972 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.007 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23



Tgt Ion: 39 Resp: 76085
Ion Ratio Lower Upper
39 100
54 69.8 57.8 86.6





#17

tert-Butyl alcohol

Concen: 9.620 ppbv

RT: 2.043 min Scan# 601

Delta R.T. 0.010 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 59 Resp: 167624

Ion Ratio Lower Upper

59 100

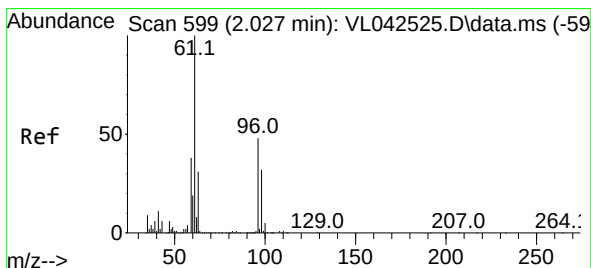
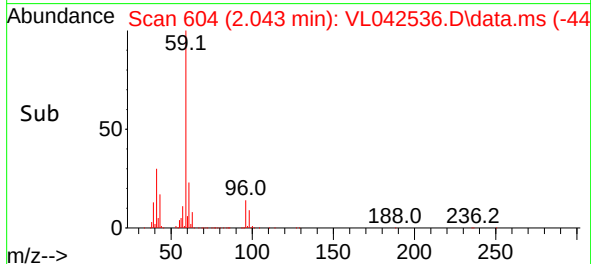
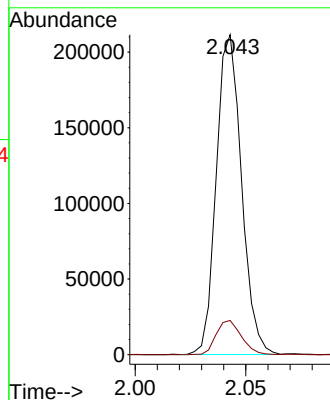
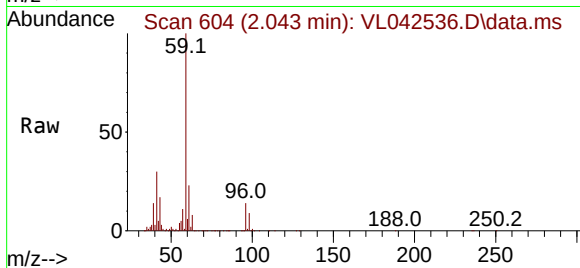
57 10.8 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#18

1,1-Dichloroethene

Concen: 9.607 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.010 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

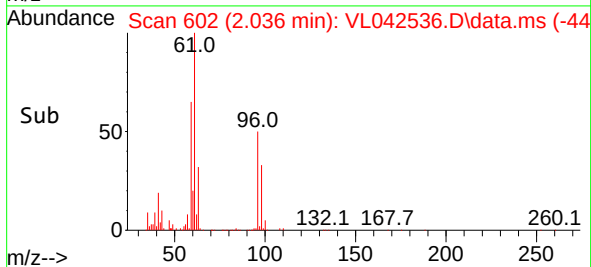
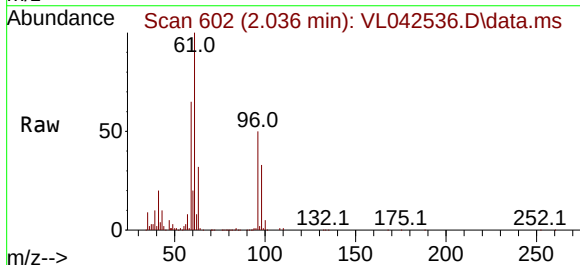
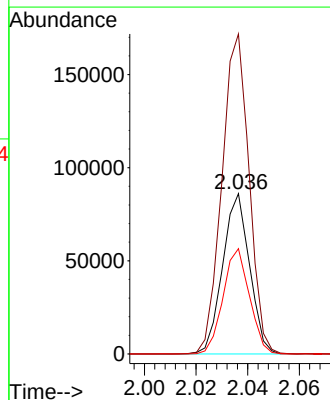
Tgt Ion: 96 Resp: 62337

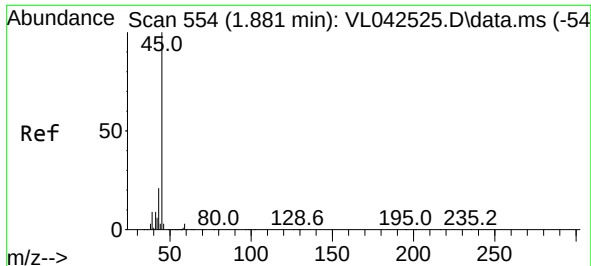
Ion Ratio Lower Upper

96 100

61 199.5 165.0 247.4

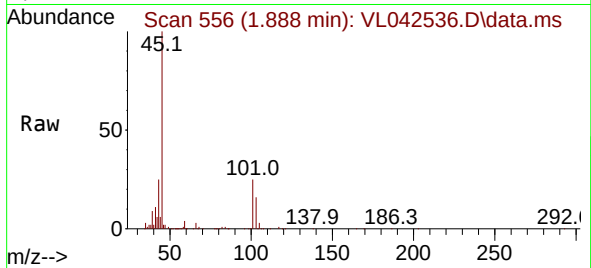
98 65.7 52.6 79.0





#19
Isopropyl Alcohol
Concen: 9.138 ppbv
RT: 1.888 min Scan# 510
Delta R.T. 0.007 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

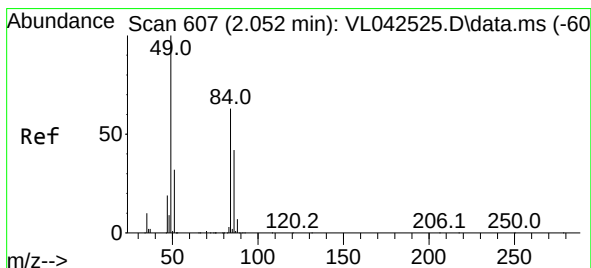
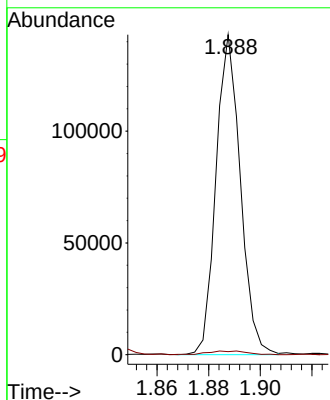
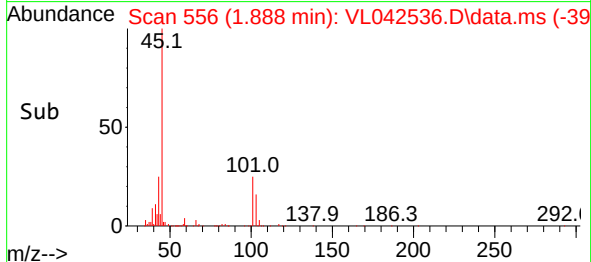
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



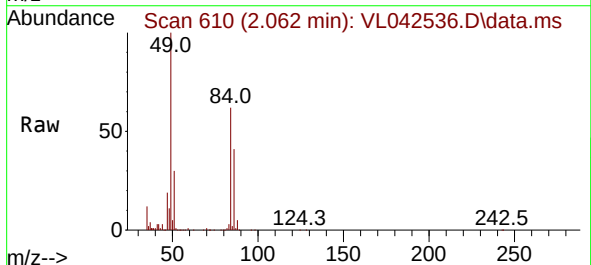
Tgt Ion: 45 Resp: 93610
Ion Ratio Lower Upper
45 100
58 2.0 1.5 2.3

Manual Integrations
APPROVED

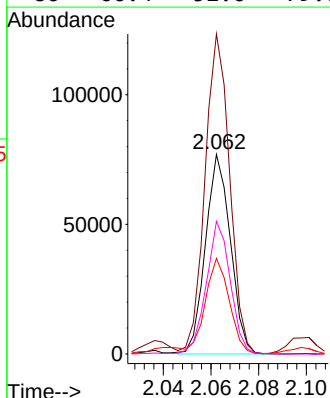
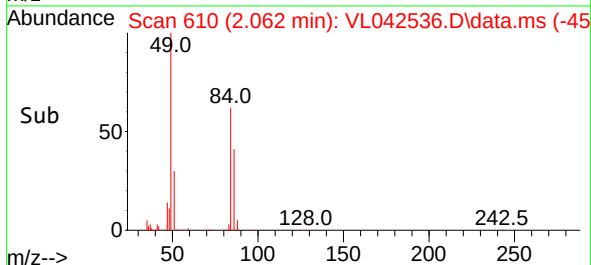
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

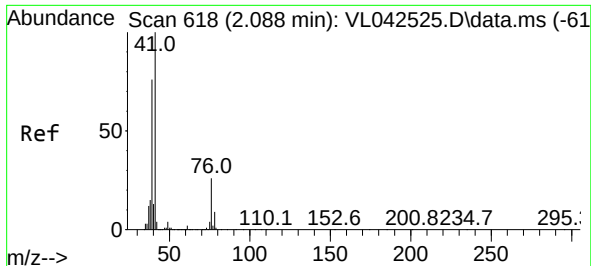


#20
Methylene Chloride
Concen: 8.523 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.010 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23



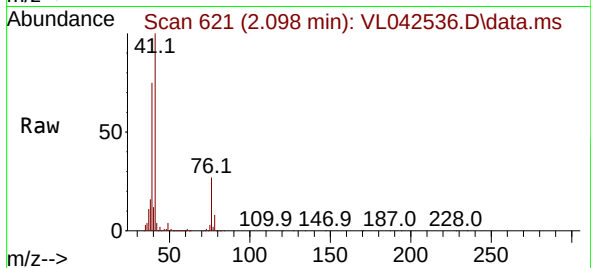
Tgt Ion: 84 Resp: 55969
Ion Ratio Lower Upper
84 100
49 158.8 128.2 192.4
51 47.2 41.7 62.5
86 66.4 52.6 79.0





#21
 Allyl Chloride
 Concen: 9.609 ppbv
 RT: 2.098 min Scan# 618
 Delta R.T. 0.010 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

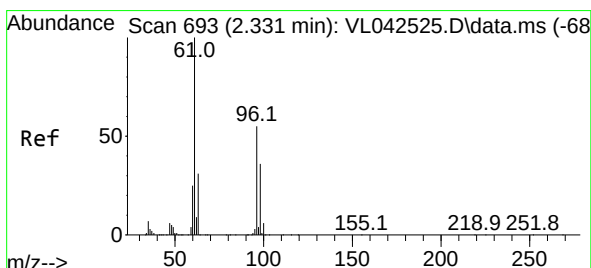
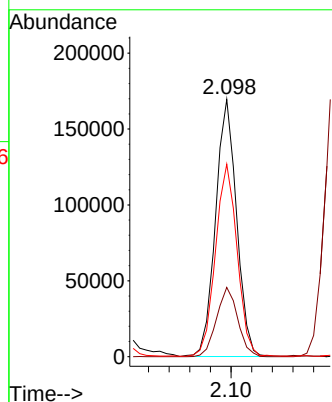
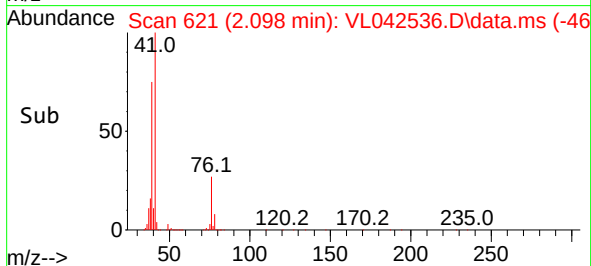
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion: 41 Resp: 119972
 Ion Ratio Lower Upper
 41 100
 76 27.2 22.0 33.0
 39 76.8 59.5 89.3

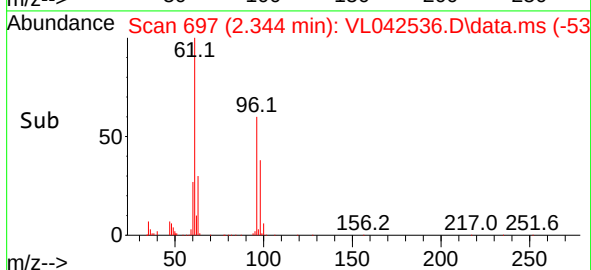
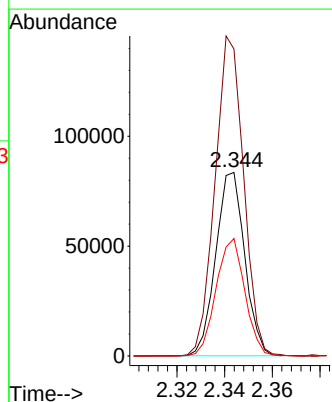
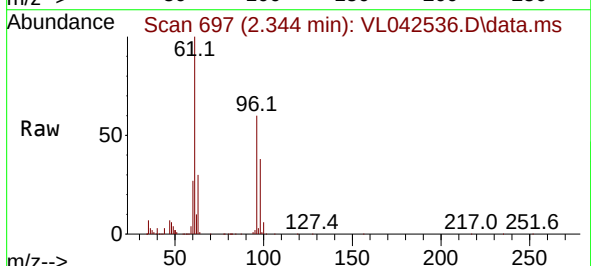
Manual Integrations
 APPROVED

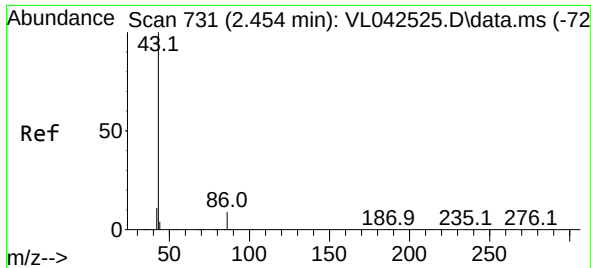
Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025



#22
 trans-1,2-Dichloroethene
 Concen: 9.270 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.013 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

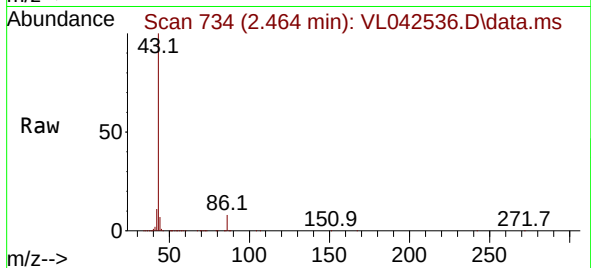
Tgt Ion: 96 Resp: 70366
 Ion Ratio Lower Upper
 96 100
 61 167.2 145.9 218.9
 98 63.9 52.2 78.4





#23
 Vinyl Acetate
 Concen: 9.852 ppbv
 RT: 2.464 min Scan# 718
 Delta R.T. 0.010 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

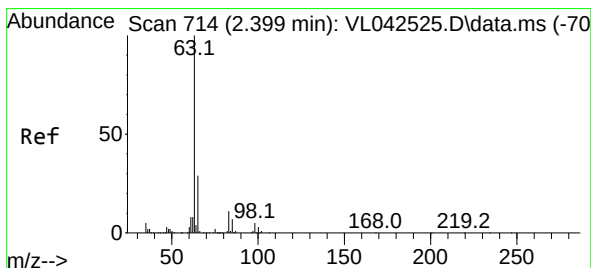
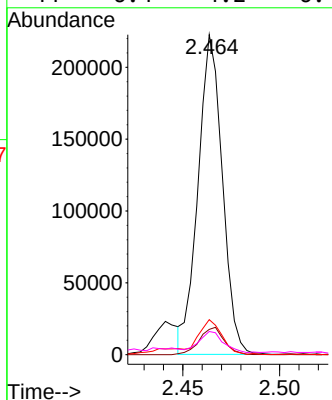
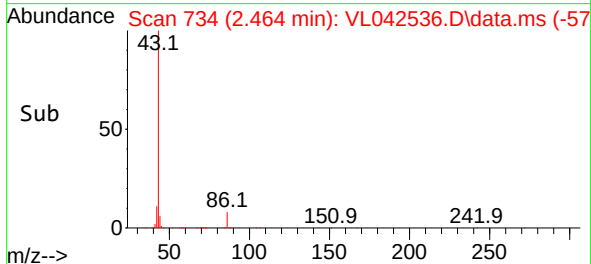
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion: 43 Resp: 194509
 Ion Ratio Lower Upper
 43 100
 86 7.9 6.8 10.2
 42 10.9 8.8 13.2
 44 6.4 4.2 6.4#

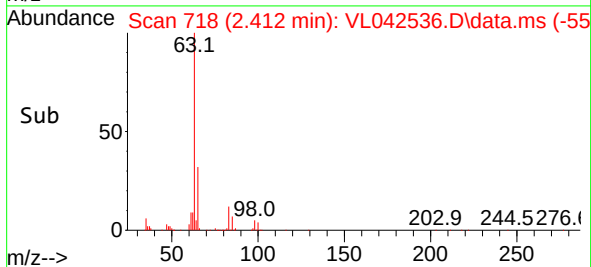
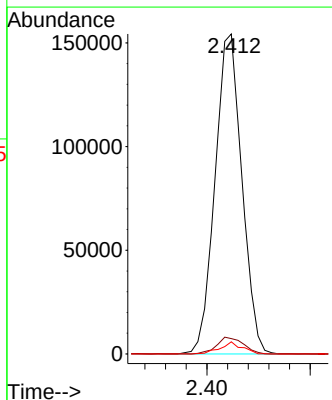
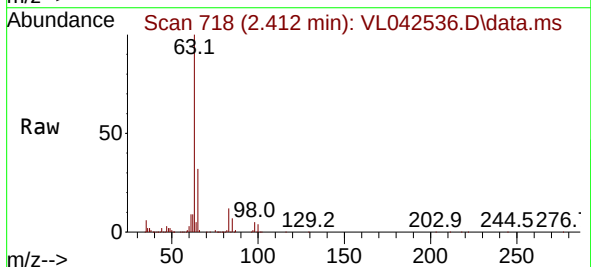
Manual Integrations
 APPROVED

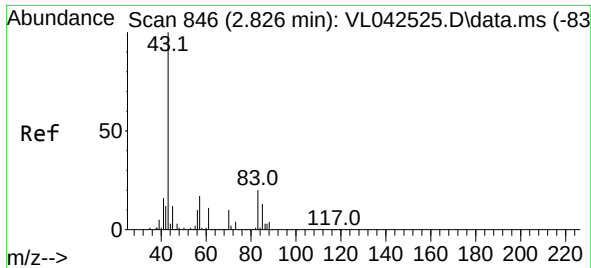
Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025



#24
 1,1-Dichloroethane
 Concen: 9.491 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.013 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

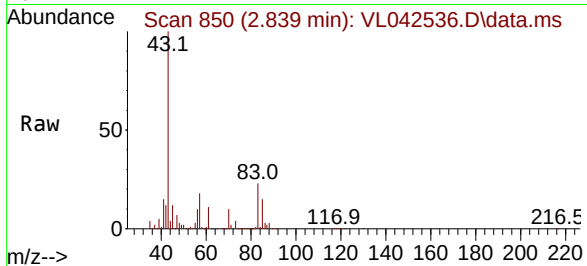
Tgt Ion: 63 Resp: 139379
 Ion Ratio Lower Upper
 63 100
 98 4.8 2.6 8.0
 100 3.8 1.4 4.2





#25
Ethyl Acetate
Concen: 9.689 ppbv
RT: 2.839 min Scan# 846
Delta R.T. 0.013 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

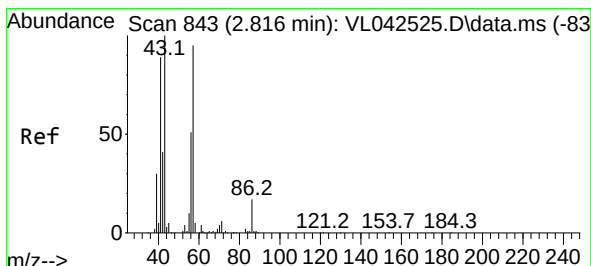
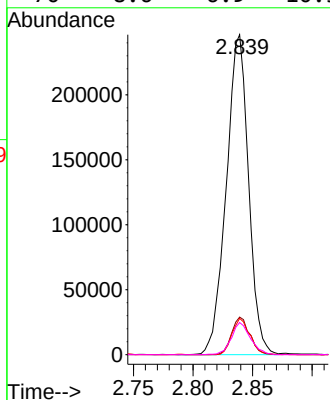
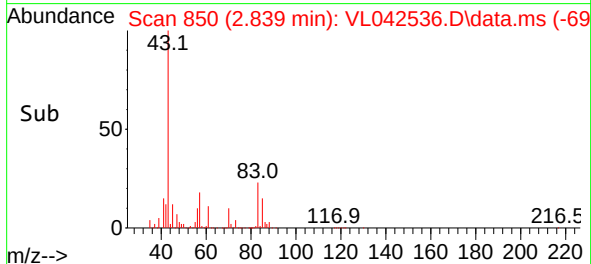
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



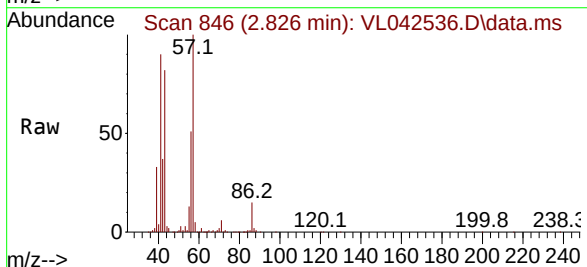
Tgt Ion: 43 Resp: 320825
Ion Ratio Lower Upper
43 100
45 9.6 7.9 11.9
61 9.1 7.1 10.7
70 8.6 6.9 10.3

Manual Integrations
APPROVED

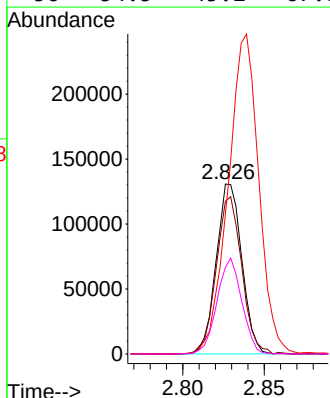
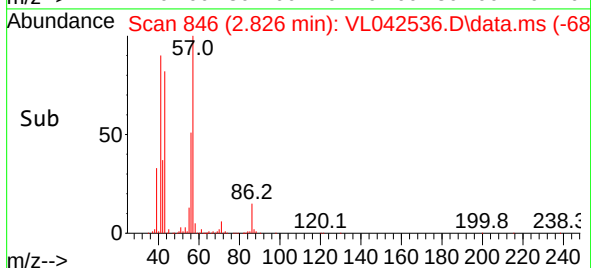
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

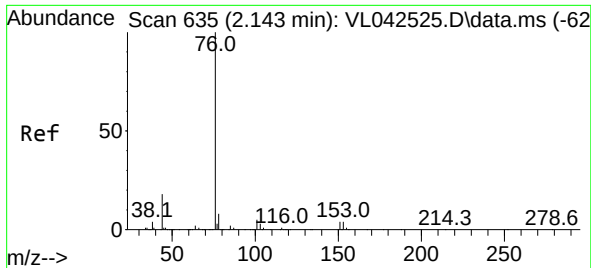


#26
Hexane
Concen: 10.498 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.010 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23



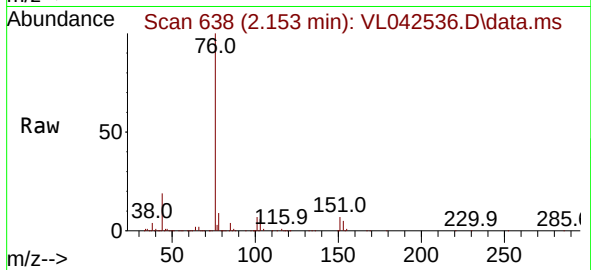
Tgt Ion: 57 Resp: 142712
Ion Ratio Lower Upper
57 100
41 92.6 76.1 114.1
43 225.0 188.9 283.3
56 54.5 45.2 67.8





#27
Carbon Disulfide
Concen: 9.889 ppbv
RT: 2.153 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

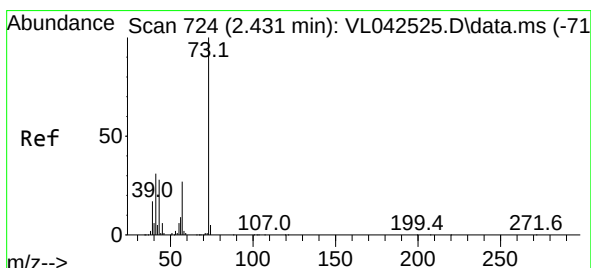
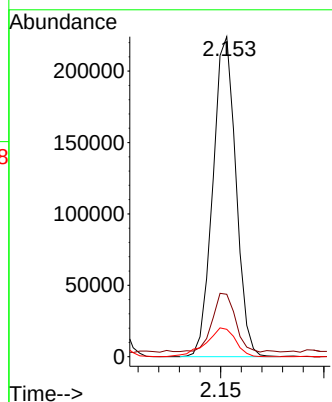
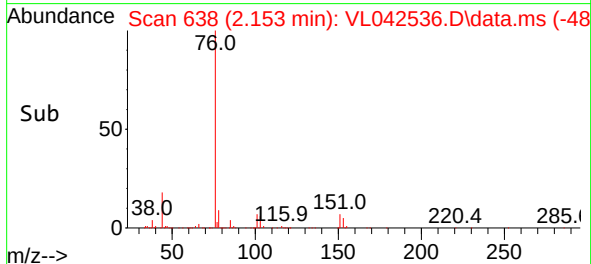
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



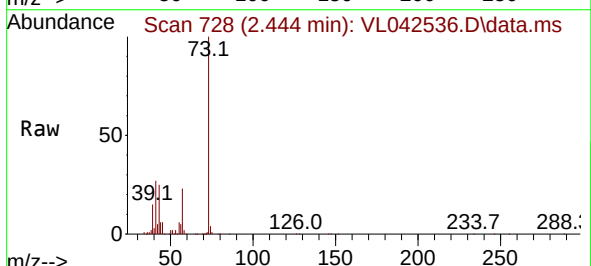
Tgt Ion: 76 Resp: 173540
Ion Ratio Lower Upper
76 100
44 20.0 17.1 25.7
78 11.5 8.6 12.8

Manual Integrations
APPROVED

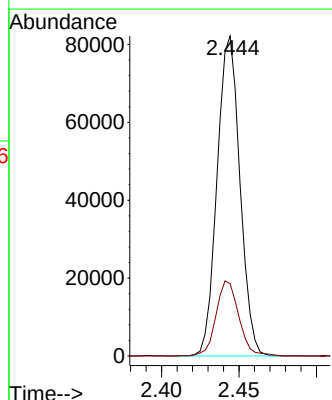
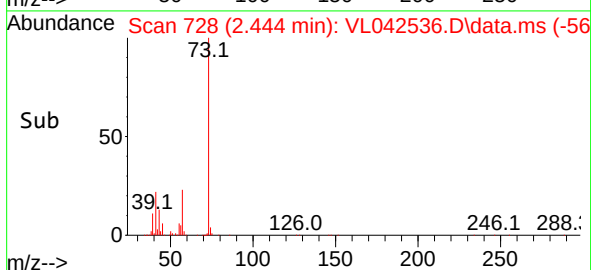
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

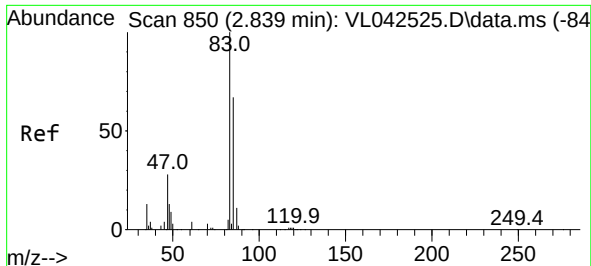


#28
Methyl tert-Butyl Ether
Concen: 11.156 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.013 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23



Tgt Ion: 73 Resp: 84256
Ion Ratio Lower Upper
73 100
57 23.4 20.3 30.5





#29

Chloroform

Concen: 8.880 ppbv

RT: 2.852 min Scan# 850

Delta R.T. 0.013 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 83 Resp: 25037

Ion Ratio Lower Upper

83 100

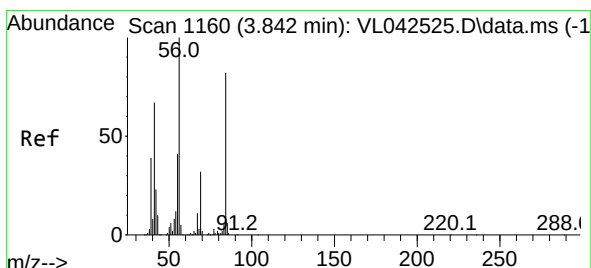
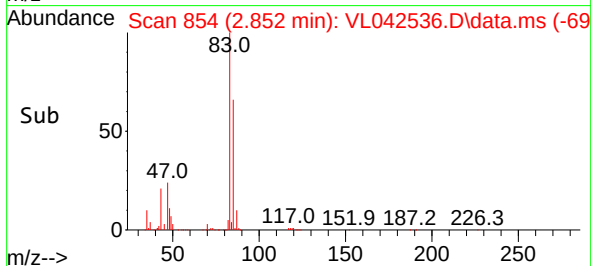
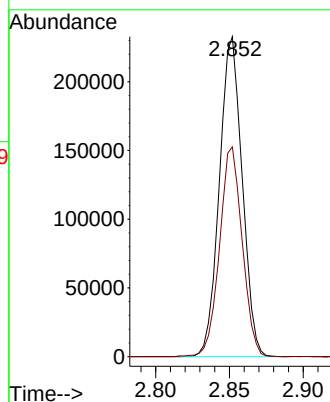
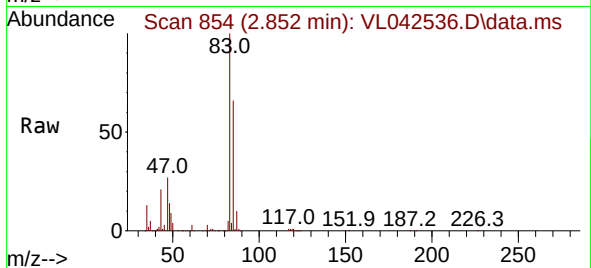
85 65.5 53.5 80.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#30

Cyclohexane

Concen: 10.502 ppbv

RT: 3.862 min Scan# 1166

Delta R.T. 0.020 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

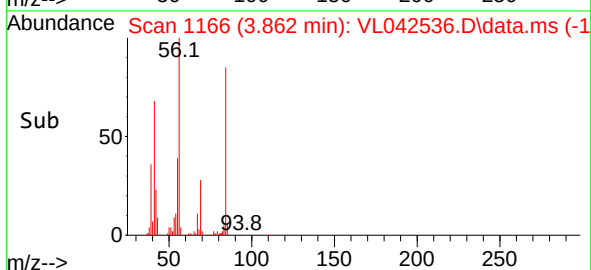
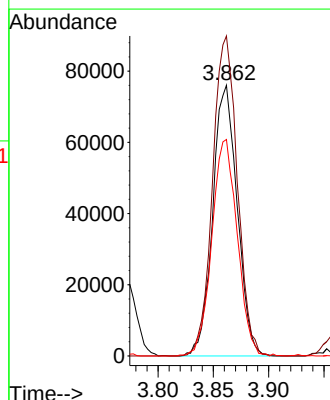
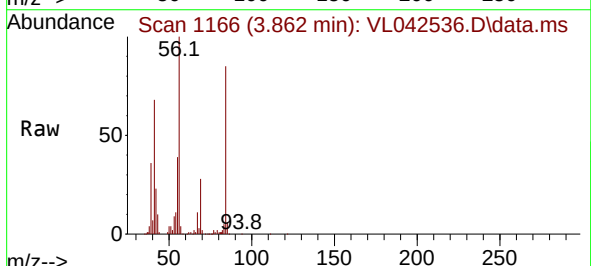
Tgt Ion: 84 Resp: 117210

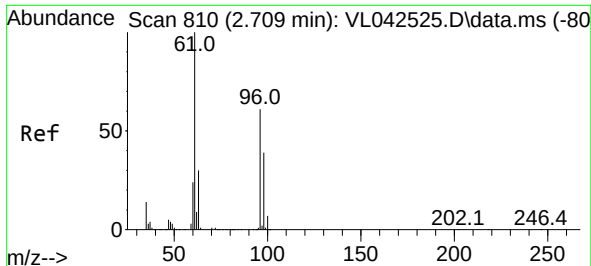
Ion Ratio Lower Upper

84 100

56 119.1 97.1 145.7

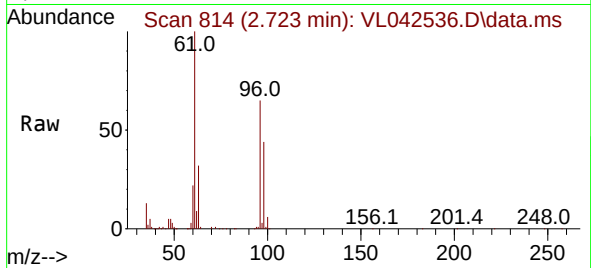
41 83.0 66.6 99.8





#31
 cis-1,2-Dichloroethene
 Concen: 9.383 ppbv
 RT: 2.723 min Scan# 810
 Delta R.T. 0.013 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

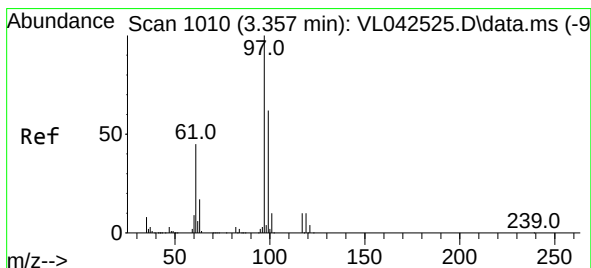
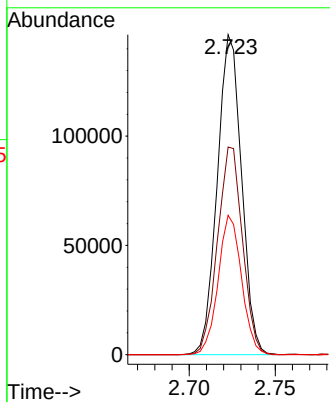
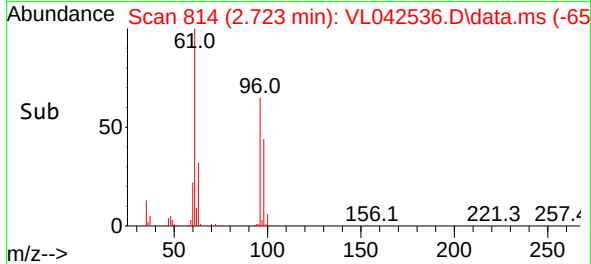
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



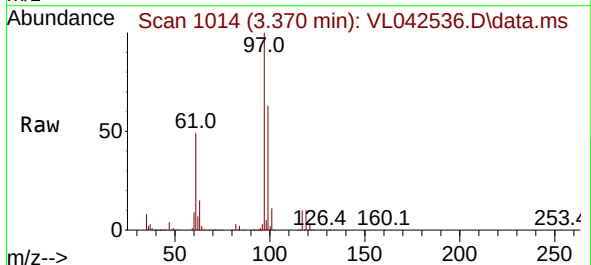
Tgt Ion: 61 Resp: 144036
 Ion Ratio Lower Upper
 61 100
 96 64.9 48.9 73.3
 98 43.6 31.4 47.2

Manual Integrations
 APPROVED

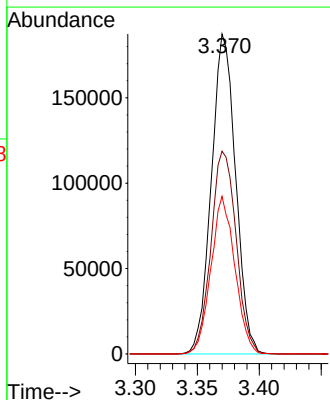
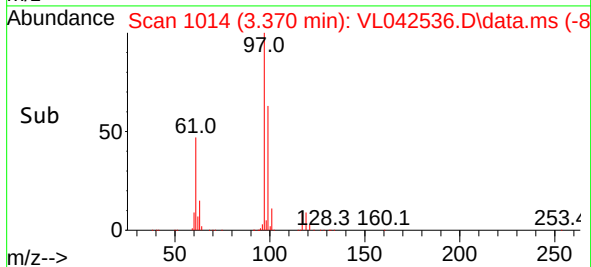
Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025

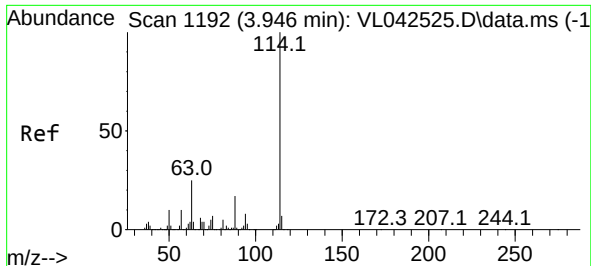


#32
 1,1,1-Trichloroethane
 Concen: 8.787 ppbv
 RT: 3.370 min Scan# 1014
 Delta R.T. 0.013 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23



Tgt Ion: 97 Resp: 255645
 Ion Ratio Lower Upper
 97 100
 99 65.9 50.1 75.1
 61 48.7 38.2 57.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.016 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

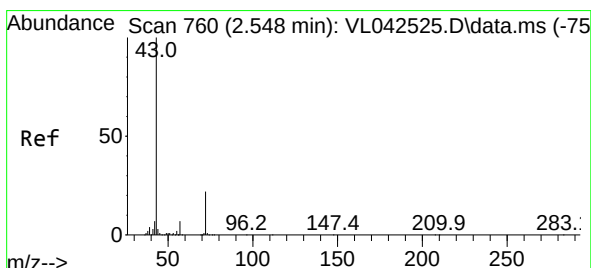
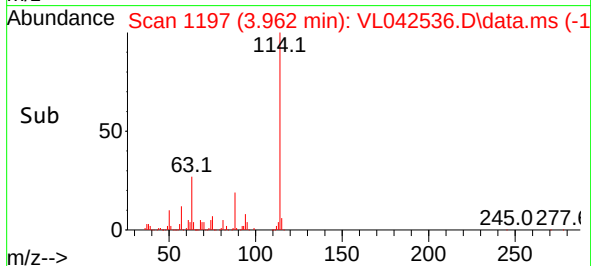
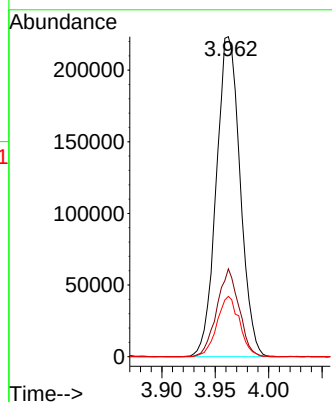
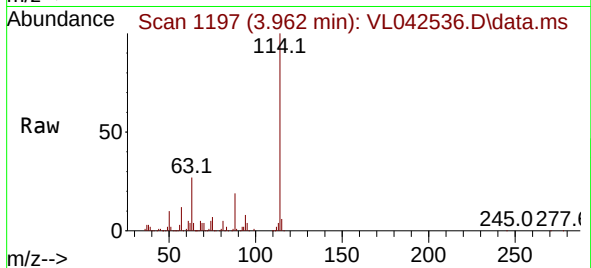
Tgt Ion:114 Resp: 34688

Ion	Ratio	Lower	Upper
114	100		
63	25.6	20.4	30.6
88	18.0	14.5	21.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#34

2-Butanone

Concen: 8.664 ppbv

RT: 2.557 min Scan# 763

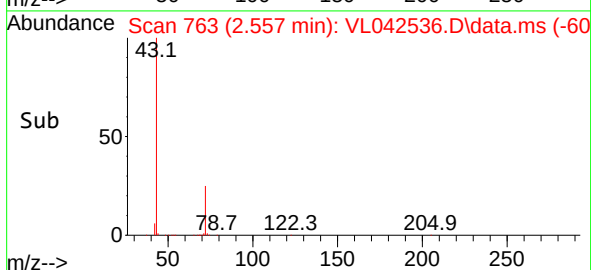
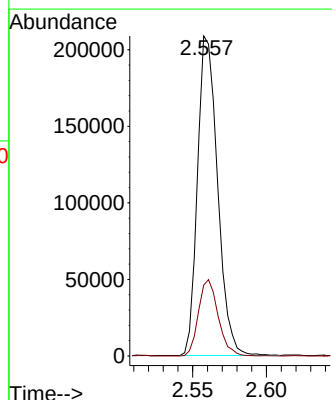
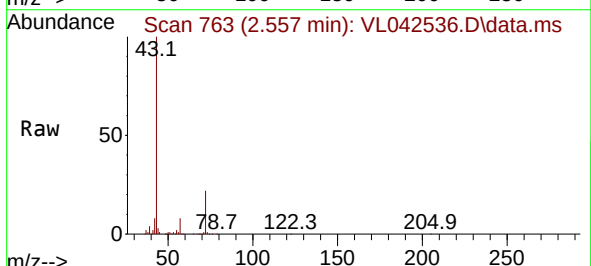
Delta R.T. 0.010 min

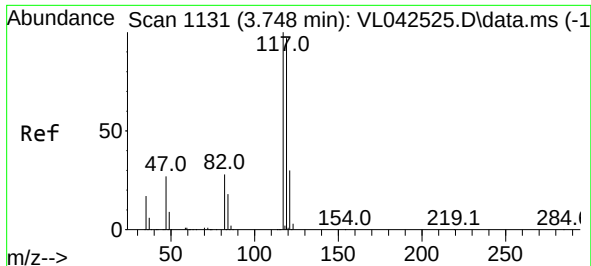
Lab File: VL042536.D

Acq: 14 May 2025 10:23

Tgt Ion: 43 Resp: 198101

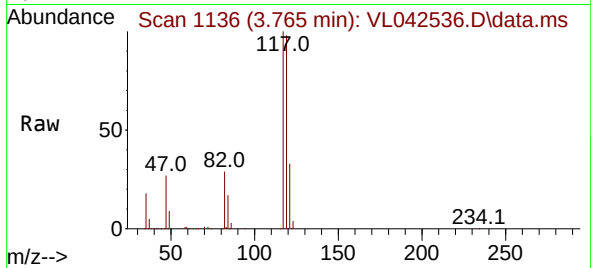
Ion	Ratio	Lower	Upper
43	100		
72	23.5	18.7	28.1





#35
Carbon Tetrachloride
Concen: 8.947 ppbv
RT: 3.765 min Scan# 1131
Delta R.T. 0.016 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

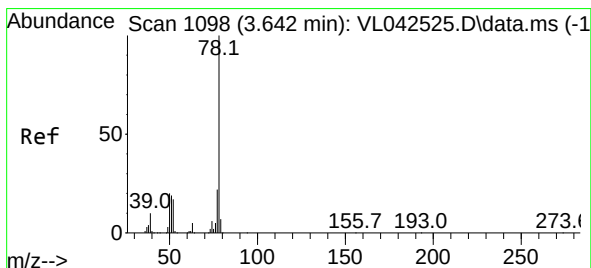
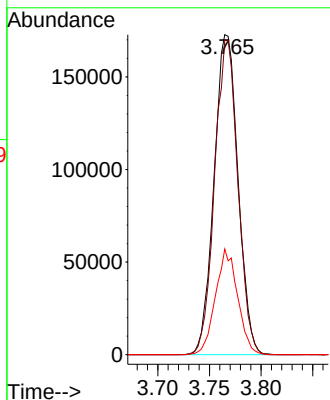
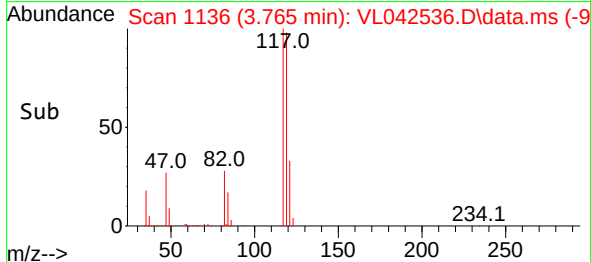
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



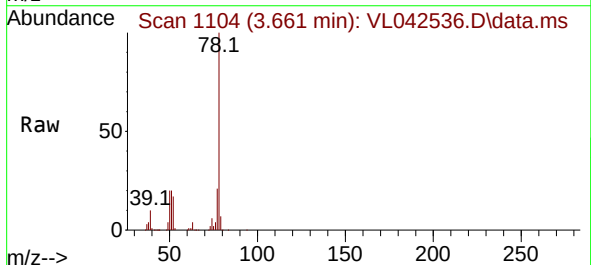
Tgt Ion: 117 Resp: 279020
Ion Ratio Lower Upper
117 100
119 98.4 77.7 116.5
121 33.0 24.0 36.0

Manual Integrations
APPROVED

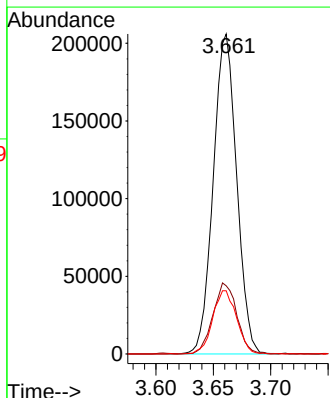
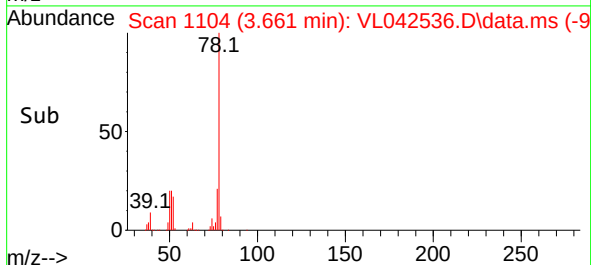
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

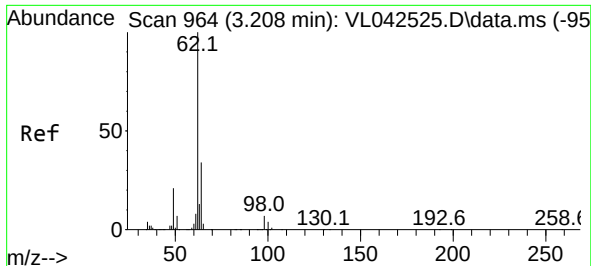


#36
Benzene
Concen: 9.521 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.020 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23



Tgt Ion: 78 Resp: 292705
Ion Ratio Lower Upper
78 100
77 21.3 17.4 26.2
50 19.7 16.3 24.5





#37

1,2-Dichloroethane

Concen: 8.885 ppbv

RT: 3.221 min Scan# 9

Delta R.T. 0.013 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 62 Resp: 19484

Ion Ratio Lower Upper

62 100

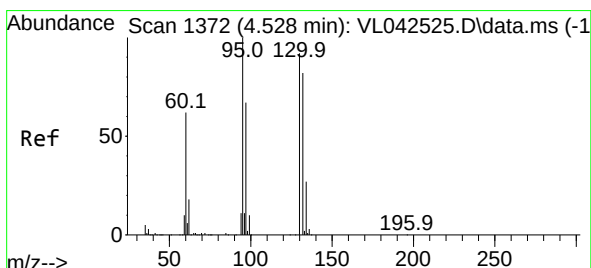
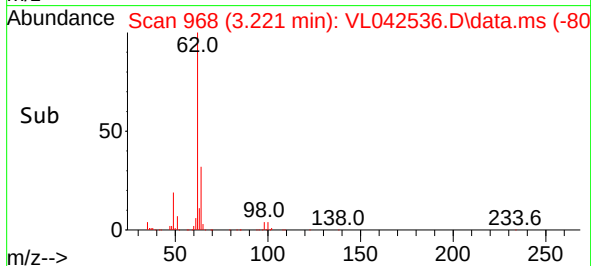
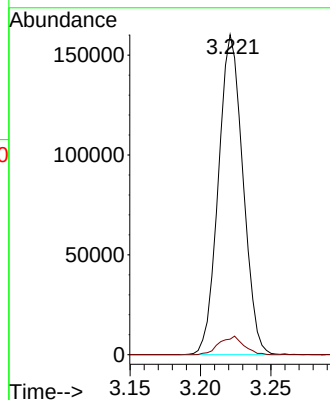
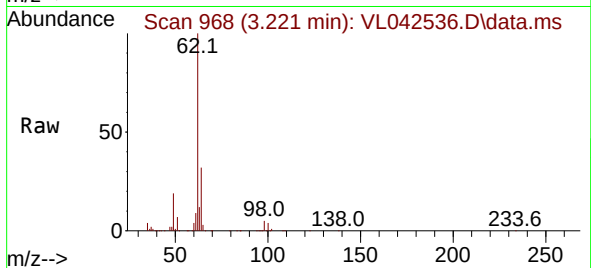
98 5.7 5.0 7.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#38

Trichloroethene

Concen: 9.092 ppbv

RT: 4.551 min Scan# 1379

Delta R.T. 0.023 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Tgt Ion:130 Resp: 121523

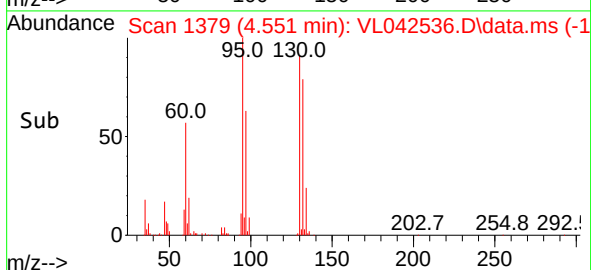
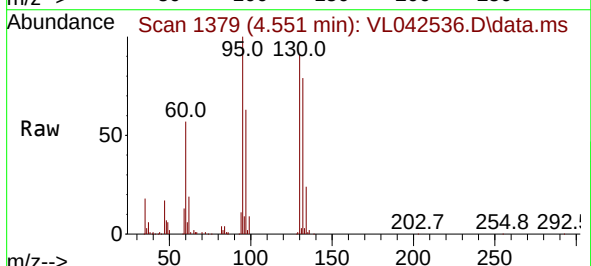
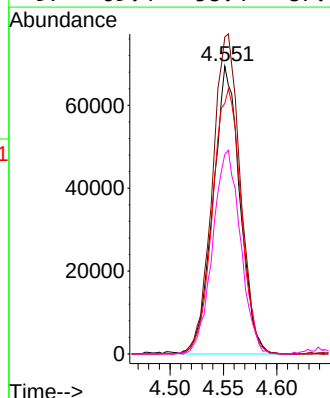
Ion Ratio Lower Upper

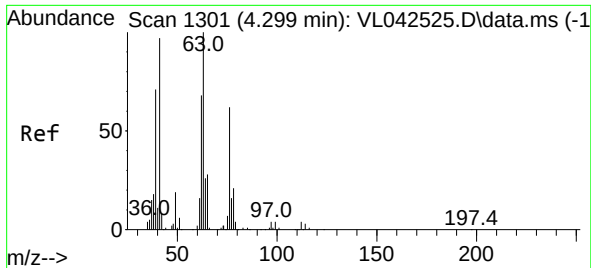
130 100

95 110.0 87.0 130.4

132 87.1 71.1 106.7

97 69.4 58.4 87.6





#39

1,2-Dichloropropane

Concen: 8.967 ppbv

RT: 4.318 min Scan# 1307

Delta R.T. 0.020 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 63 Resp: 10268

Ion Ratio Lower Upper

63 100

41 89.5 77.5 116.3

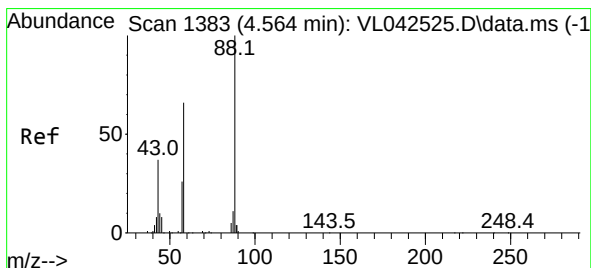
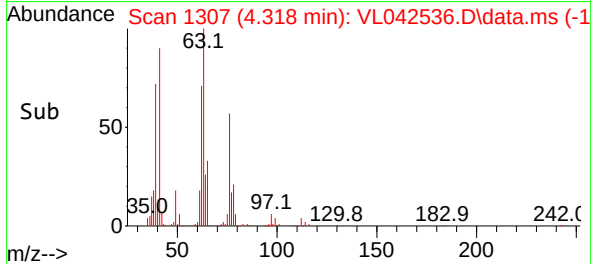
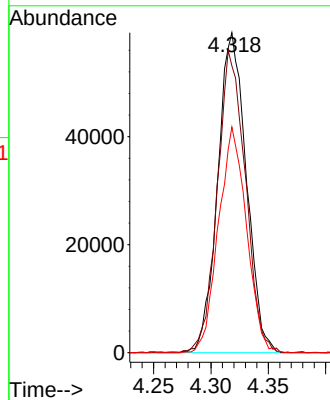
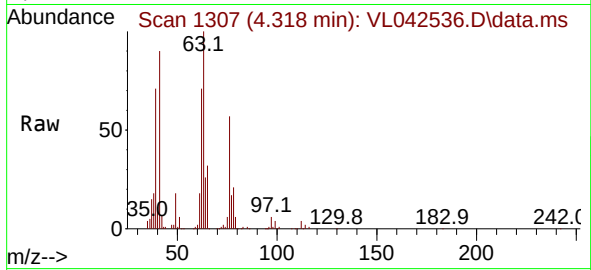
62 70.5 54.6 82.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#40

1,4-Dioxane

Concen: 9.810 ppbv

RT: 4.584 min Scan# 1389

Delta R.T. 0.020 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Tgt Ion: 88 Resp: 45600

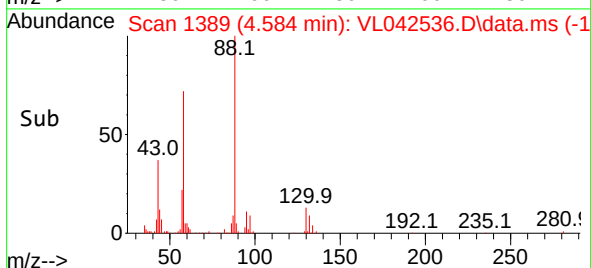
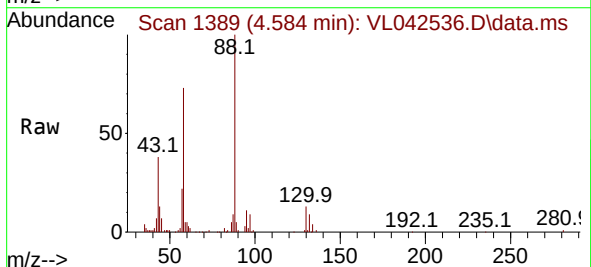
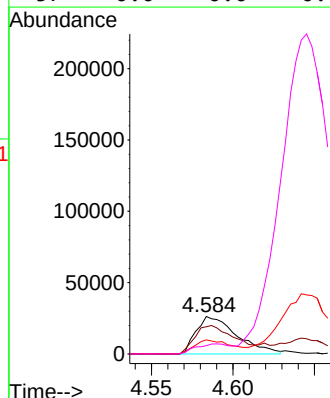
Ion Ratio Lower Upper

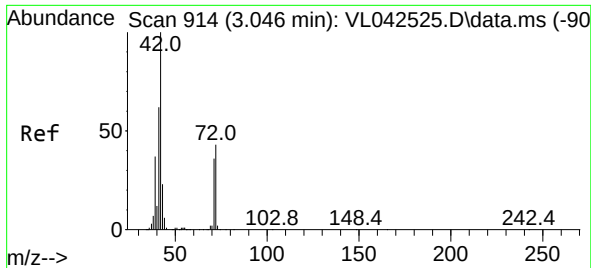
88 100

58 85.2 58.2 87.2

43 34.2 27.9 41.9

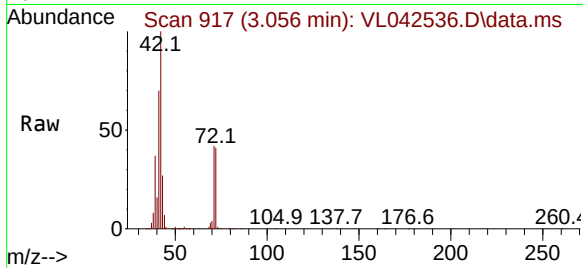
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 10.412 ppbv
RT: 3.056 min Scan# 914
Delta R.T. 0.010 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

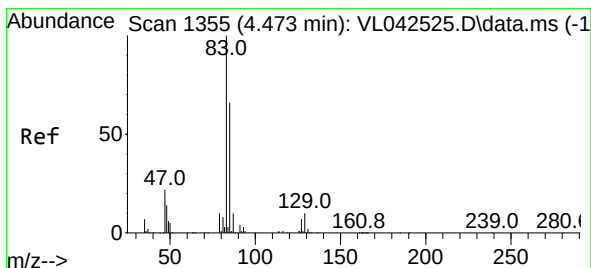
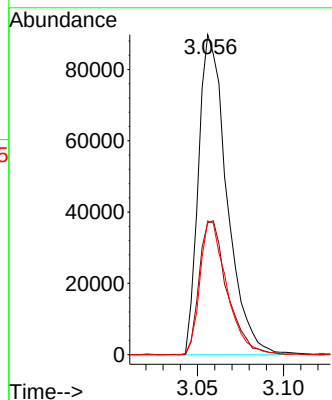
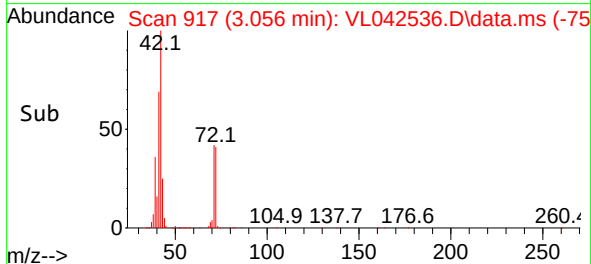
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



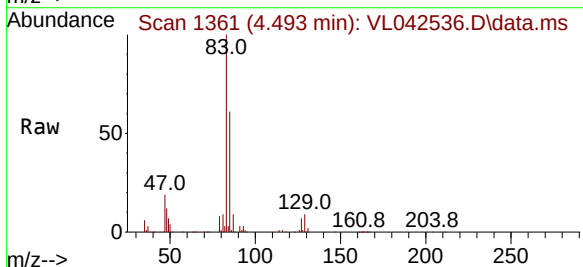
Tgt Ion: 42 Resp: 10305
Ion Ratio Lower Upper
42 100
72 41.0 32.7 49.1
71 39.6 30.4 45.6

Manual Integrations
APPROVED

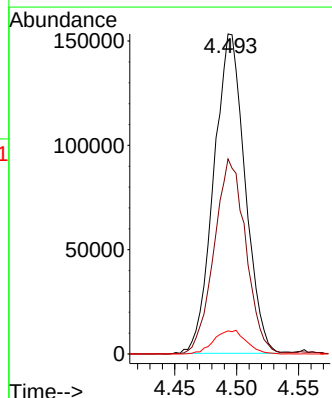
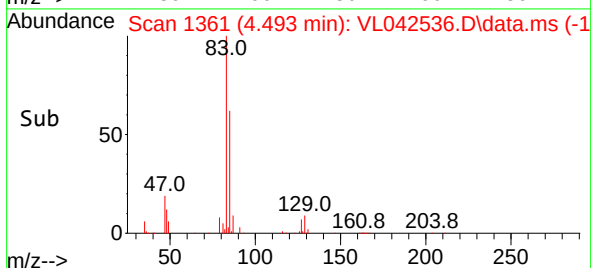
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

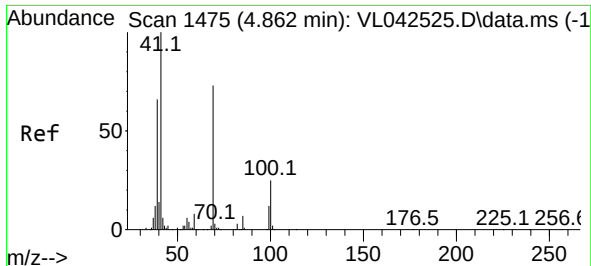


#42
Bromodichloromethane
Concen: 9.183 ppbv
RT: 4.493 min Scan# 1361
Delta R.T. 0.020 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23



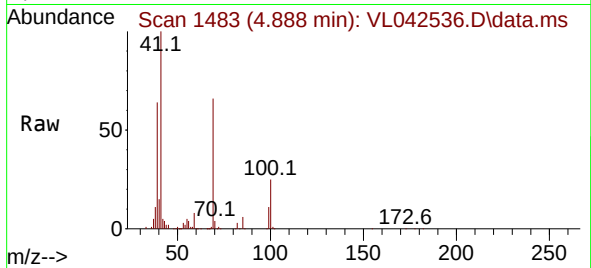
Tgt Ion: 83 Resp: 268737
Ion Ratio Lower Upper
83 100
85 61.0 52.6 79.0
127 7.2 6.0 9.0





#43
Methyl Methacrylate
Concen: 10.440 ppbv m
RT: 4.888 min Scan# 1475
Delta R.T. 0.026 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

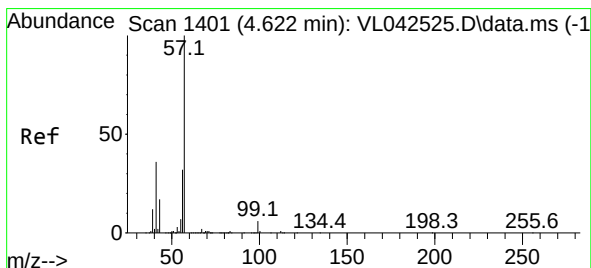
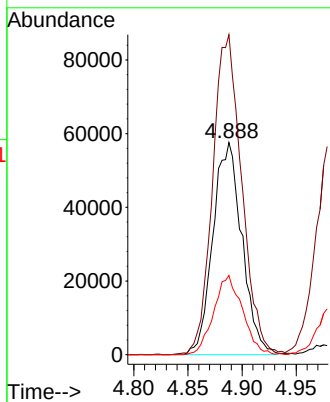
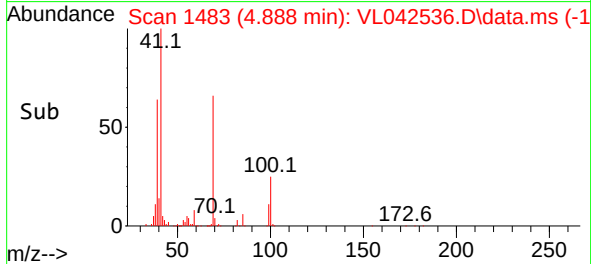
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 69 Resp: 10748
Ion Ratio Lower Upper
69 100
41 150.6 119.9 179.9
100 37.0 28.4 42.6

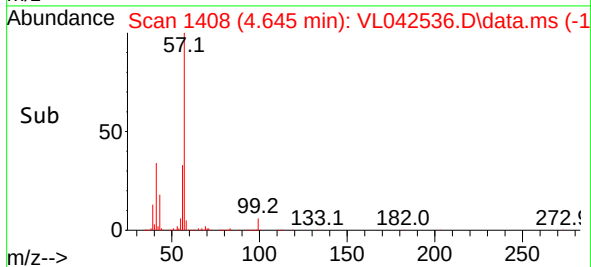
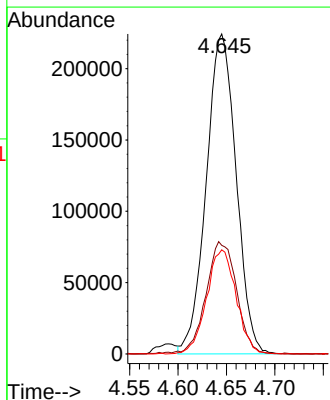
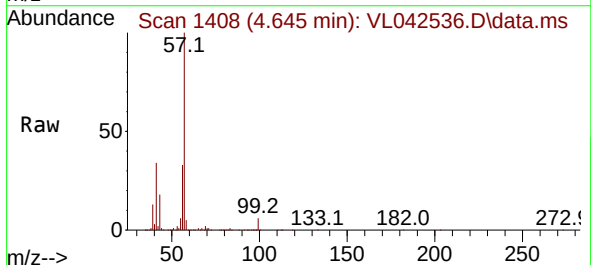
Manual Integrations
APPROVED

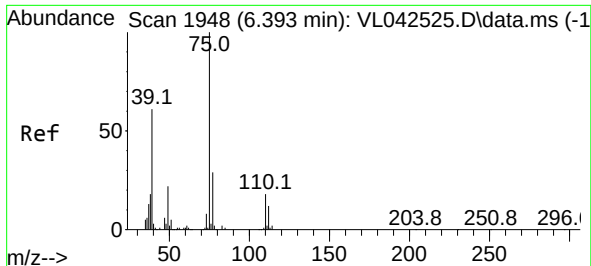
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#44
2,2,4-Trimethylpentane
Concen: 9.900 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.023 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

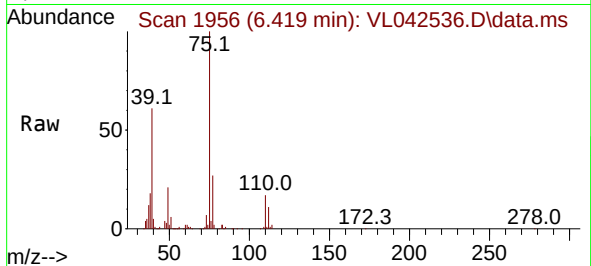
Tgt Ion: 57 Resp: 482249
Ion Ratio Lower Upper
57 100
41 36.2 28.3 42.5
56 32.2 25.9 38.9





#45
t-1,3-Dichloropropene
Concen: 10.271 ppbv
RT: 6.419 min Scan# 1948
Delta R.T. 0.026 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

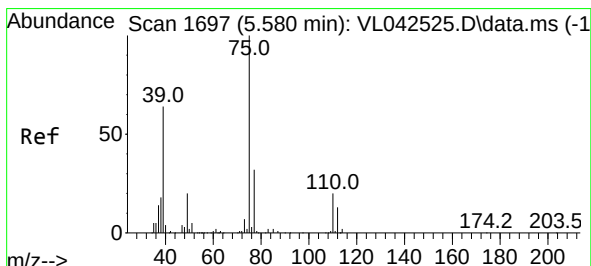
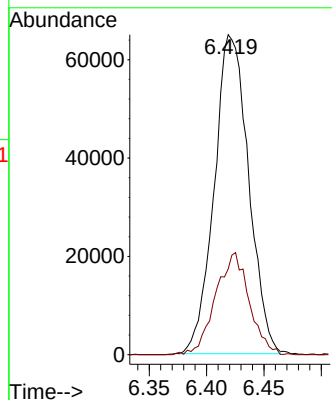
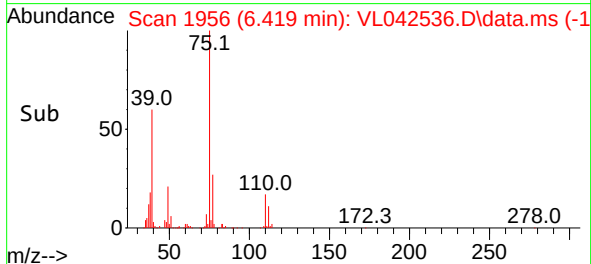
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



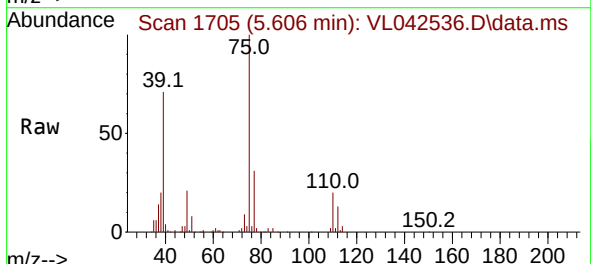
Tgt Ion: 75 Resp: 13510
Ion Ratio Lower Upper
75 100
77 26.8 23.3 34.9

Manual Integrations
APPROVED

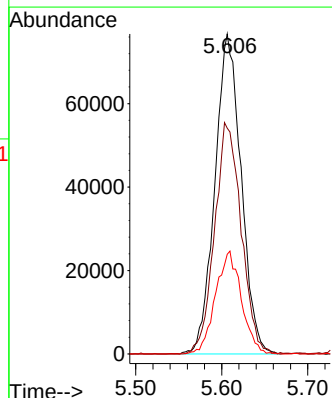
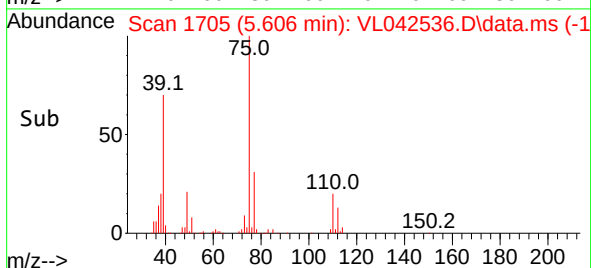
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

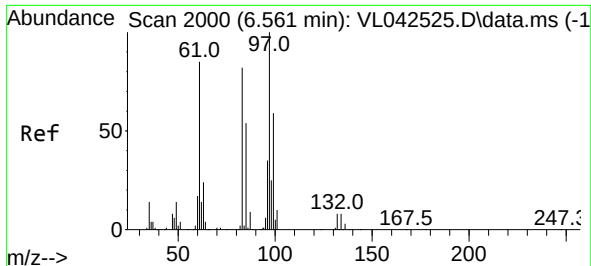


#46
cis-1,3-Dichloropropene
Concen: 10.268 ppbv
RT: 5.606 min Scan# 1705
Delta R.T. 0.026 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23



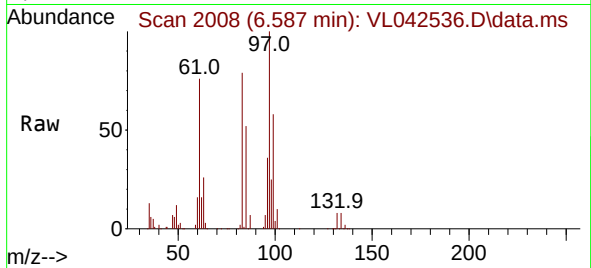
Tgt Ion: 75 Resp: 162473
Ion Ratio Lower Upper
75 100
39 70.5 51.2 76.8
77 31.2 25.4 38.0





#47
1,1,2-Trichloroethane
Concen: 8.999 ppbv
RT: 6.587 min Scan# 2008
Delta R.T. 0.026 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

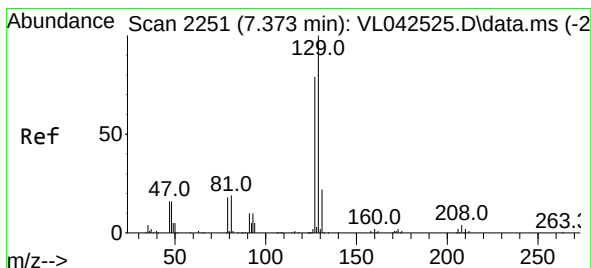
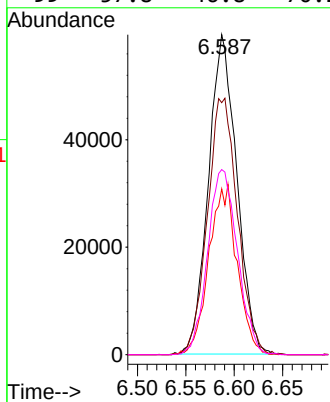
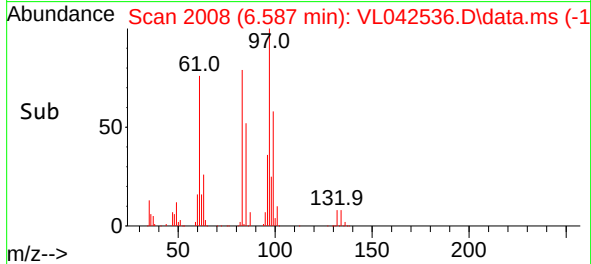
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



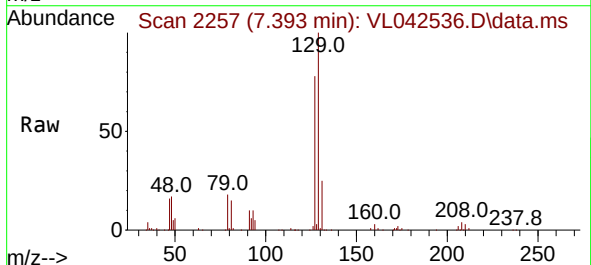
Tgt Ion	Ratio	Lower	Upper
97	100		
83	78.6	66.0	99.0
85	51.9	42.8	64.2
99	57.8	46.8	70.2

Manual Integrations
APPROVED

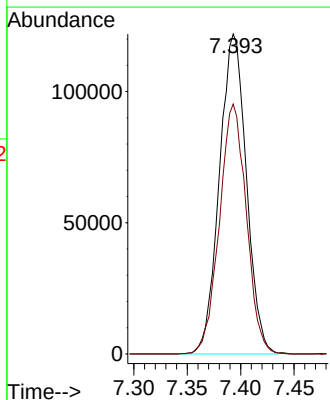
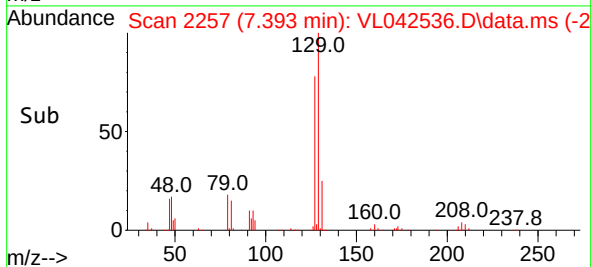
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

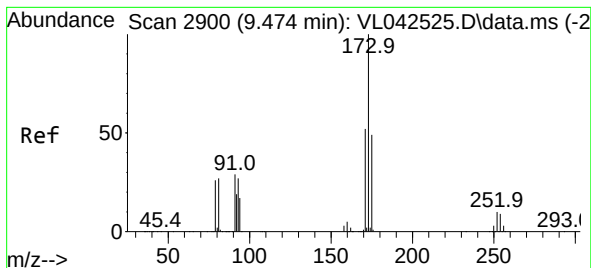


#48
Dibromochloromethane
Concen: 9.523 ppbv
RT: 7.393 min Scan# 2257
Delta R.T. 0.020 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23



Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.8	39.6	118.8





#49

Bromoform

Concen: 9.790 ppbv

RT: 9.487 min Scan# 2900

Delta R.T. 0.013 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion:173 Resp: 180872

Ion Ratio Lower Upper

173 100

175 48.3 39.1 58.7

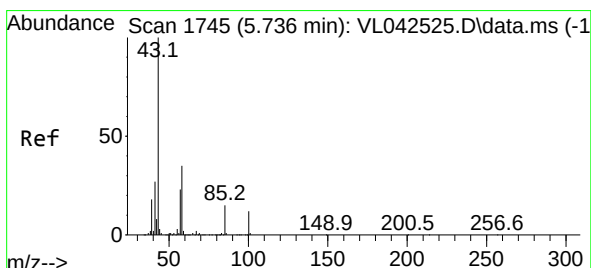
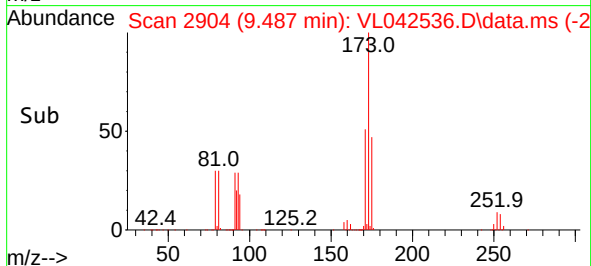
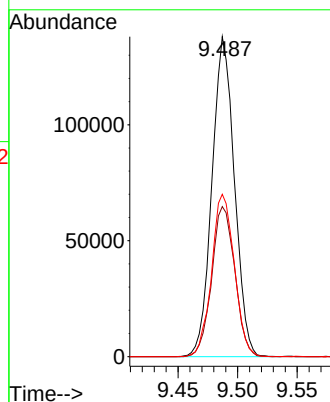
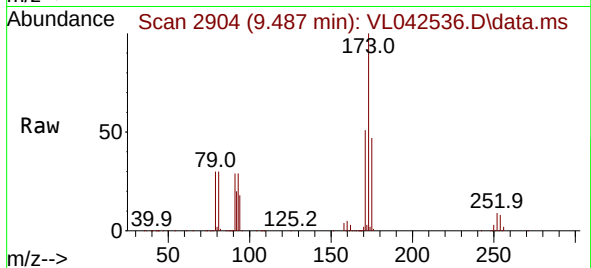
171 51.5 41.8 62.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#50

4-Methyl-2-Pentanone

Concen: 10.326 ppbv

RT: 5.759 min Scan# 1752

Delta R.T. 0.023 min

Lab File: VL042536.D

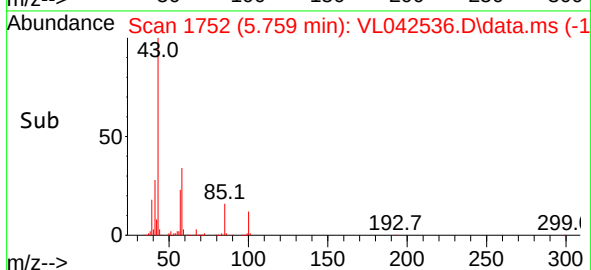
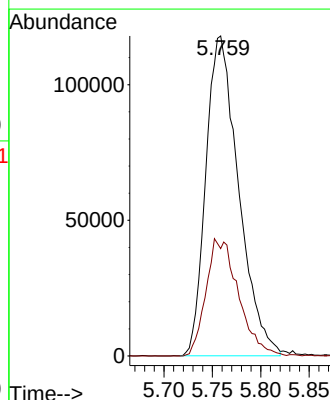
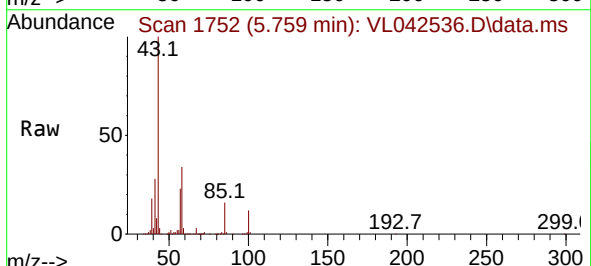
Acq: 14 May 2025 10:23

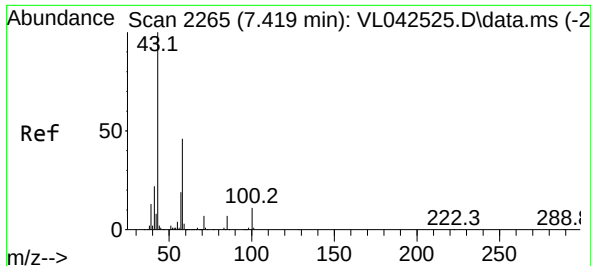
Tgt Ion: 43 Resp: 277297

Ion Ratio Lower Upper

43 100

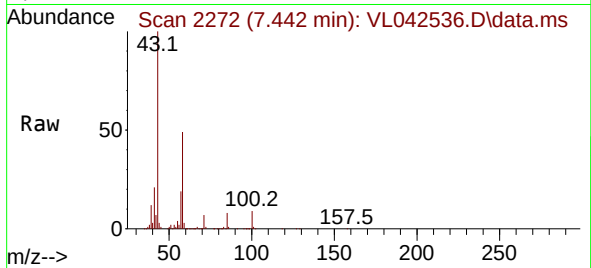
58 36.5 28.6 42.8





#51
2-Hexanone
Concen: 11.360 ppbv
RT: 7.442 min Scan# 21
Delta R.T. 0.023 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

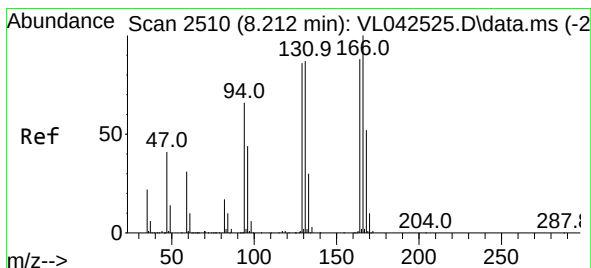
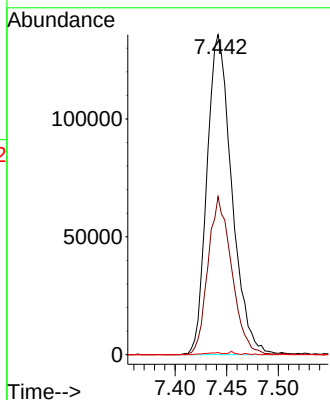
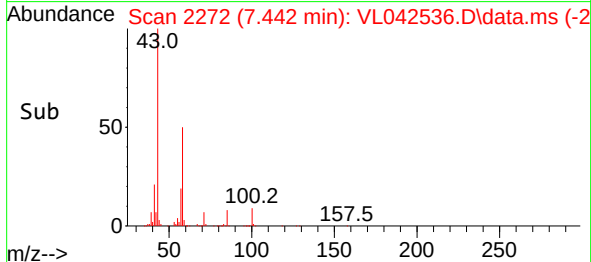
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



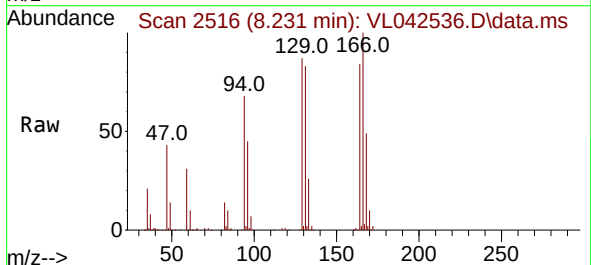
Tgt Ion: 43 Resp: 226925
Ion Ratio Lower Upper
43 100
58 47.4 37.5 56.3
98 0.8 0.9 1.3

Manual Integrations
APPROVED

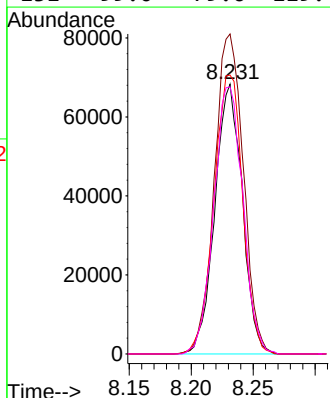
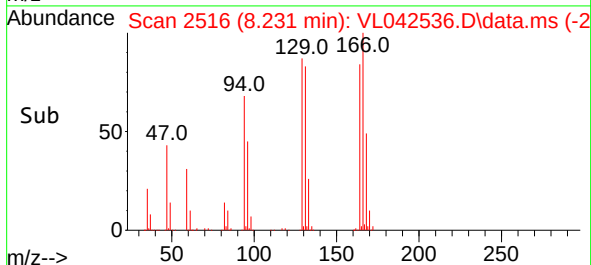
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

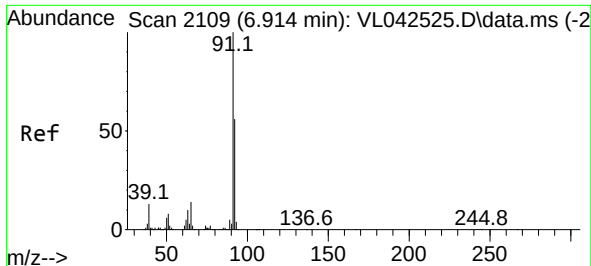


#52
Tetrachloroethene
Concen: 8.964 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.020 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23



Tgt Ion:164 Resp: 105432
Ion Ratio Lower Upper
164 100
166 118.6 91.3 136.9
129 103.4 78.9 118.3
131 99.0 79.6 119.4





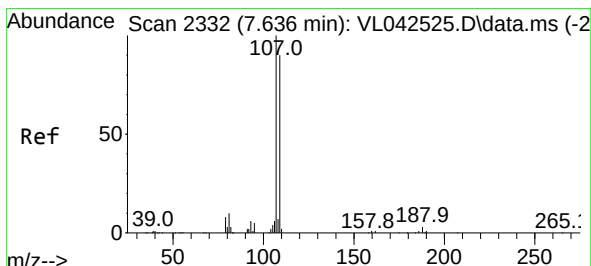
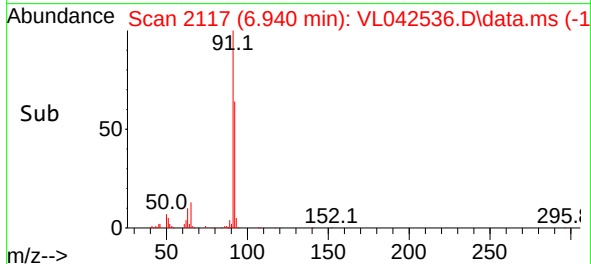
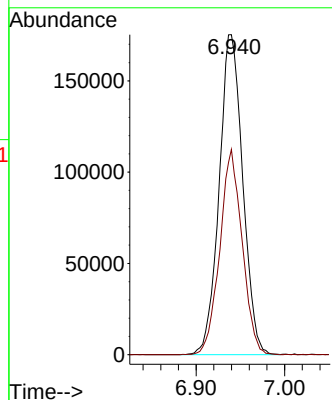
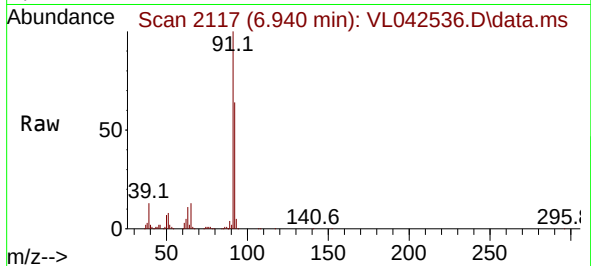
#53
Toluene
Concen: 10.761 ppbv
RT: 6.940 min Scan# 2109
Delta R.T. 0.026 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 324628
Ion Ratio Lower Upper
91 100
92 60.7 47.8 71.6

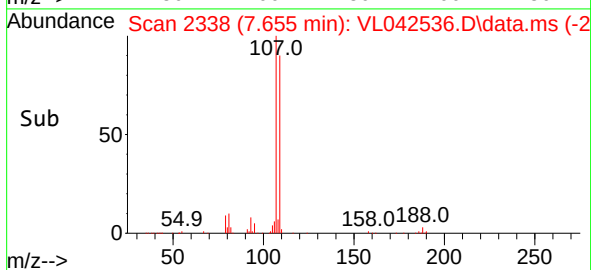
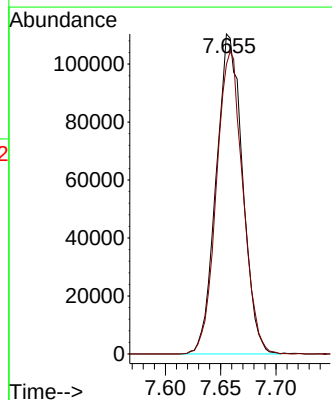
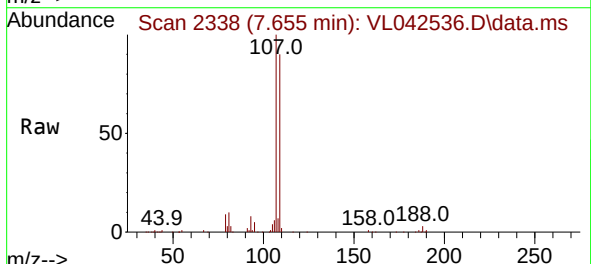
Manual Integrations
APPROVED

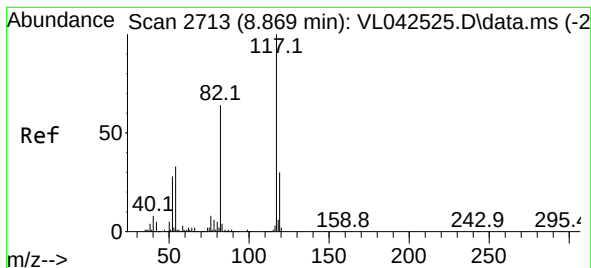
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#54
1,2-Dibromoethane
Concen: 9.275 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. 0.020 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Tgt Ion:107 Resp: 182645
Ion Ratio Lower Upper
107 100
109 90.5 72.2 108.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2718

Delta R.T. 0.016 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

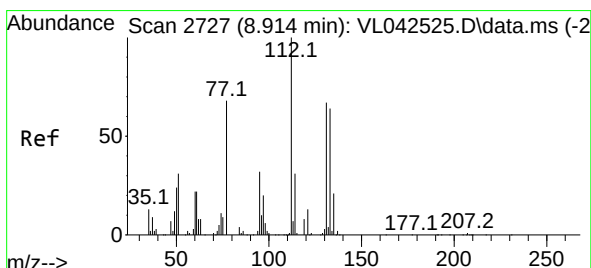
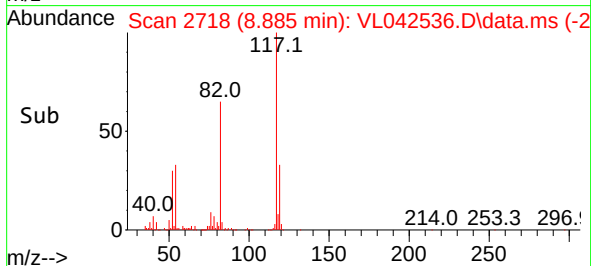
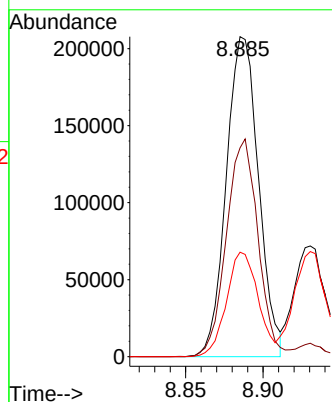
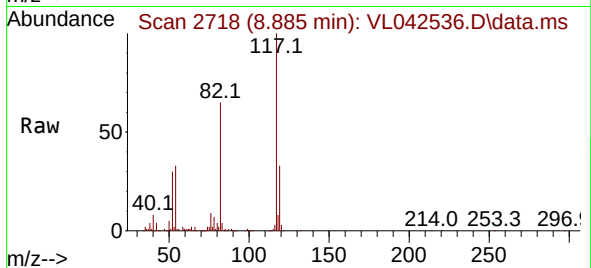
Tgt Ion:117 Resp: 301240

Ion	Ratio	Lower	Upper
117	100		
82	70.2	55.0	82.4
119	32.1	25.8	38.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 8.904 ppbv

RT: 8.930 min Scan# 2732

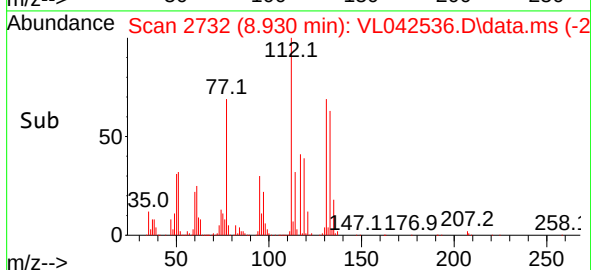
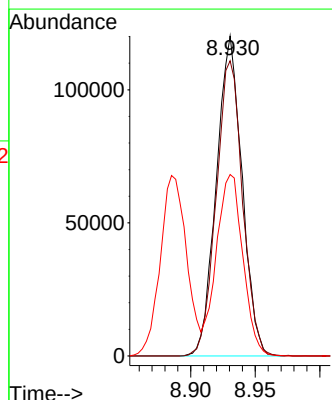
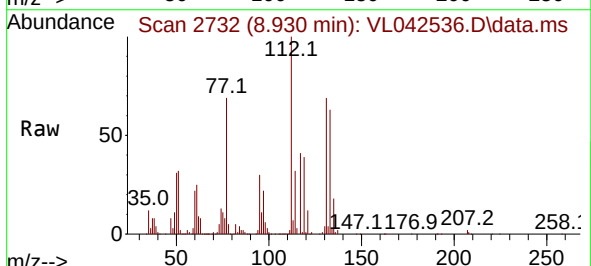
Delta R.T. 0.016 min

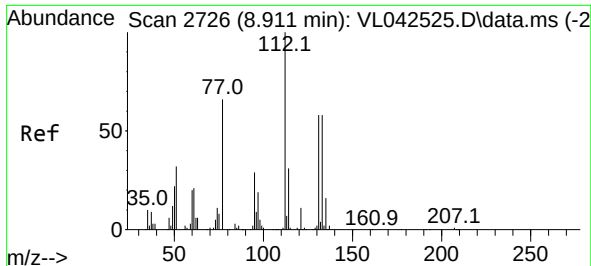
Lab File: VL042536.D

Acq: 14 May 2025 10:23

Tgt Ion:131 Resp: 166298

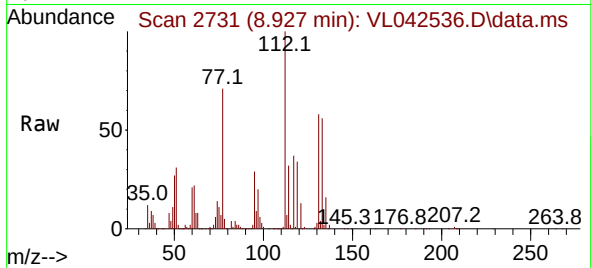
Ion	Ratio	Lower	Upper
131	100		
133	94.7	77.4	116.2
119	59.8	49.0	73.4





#57
Chlorobenzene
Concen: 8.989 ppbv
RT: 8.927 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

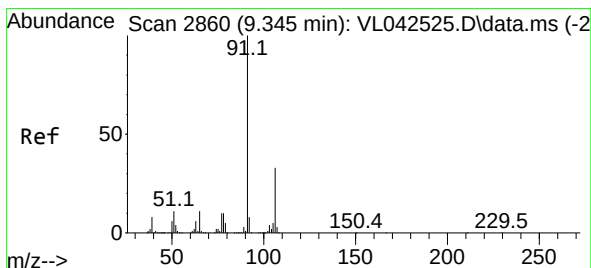
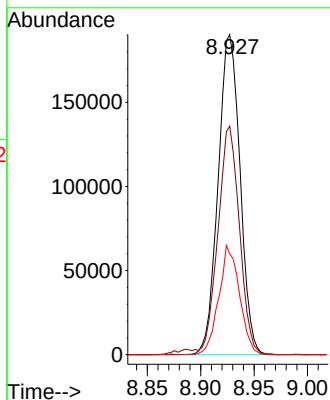
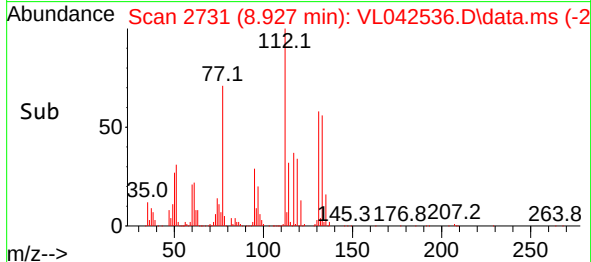
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion:112 Resp: 271874
Ion Ratio Lower Upper
112 100
77 71.5 53.6 80.4
114 31.6 28.2 34.4

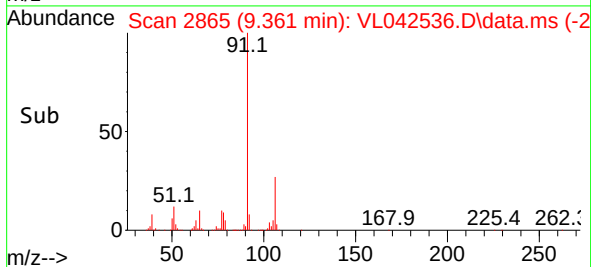
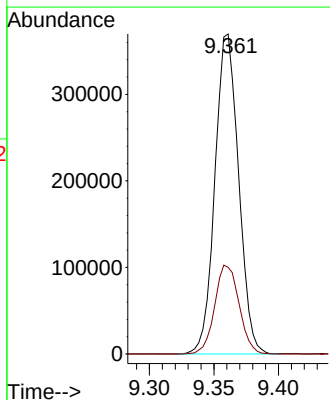
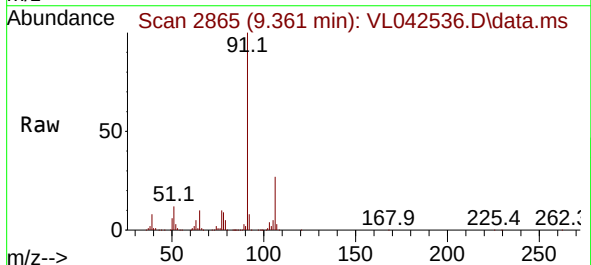
Manual Integrations
APPROVED

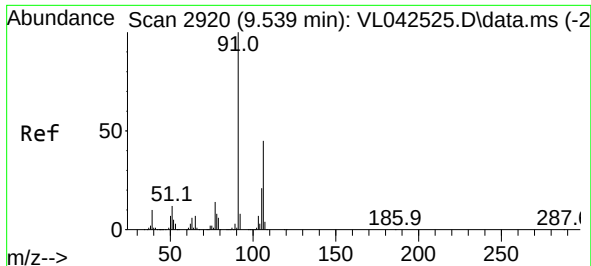
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#58
Ethyl Benzene
Concen: 11.466 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.016 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Tgt Ion: 91 Resp: 470778
Ion Ratio Lower Upper
91 100
106 27.1 26.0 39.0





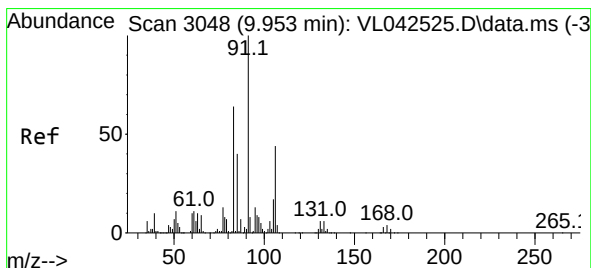
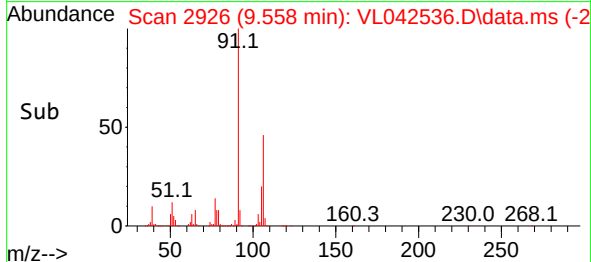
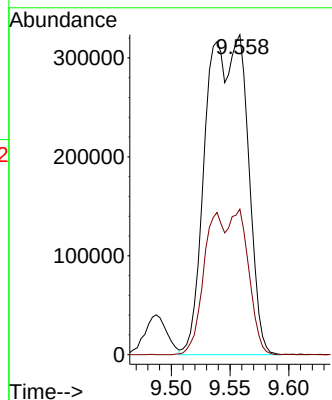
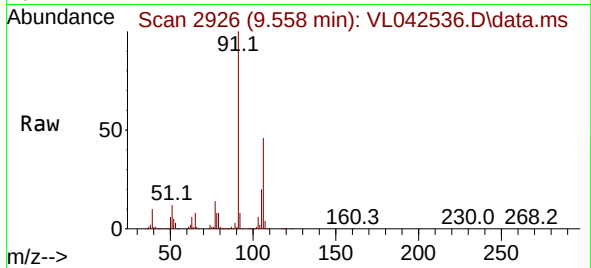
#59
m/p-Xylene
Concen: 21.838 ppbv m
RT: 9.558 min Scan# 2920
Delta R.T. 0.020 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 796362
Ion Ratio Lower Upper
91 100
106 44.9 0.0 0.0

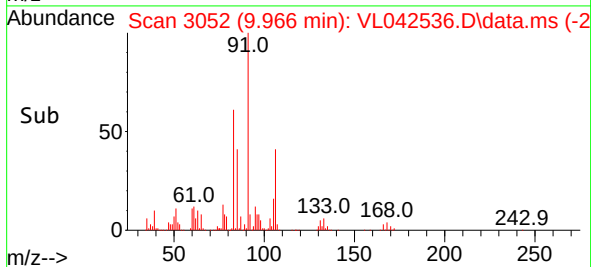
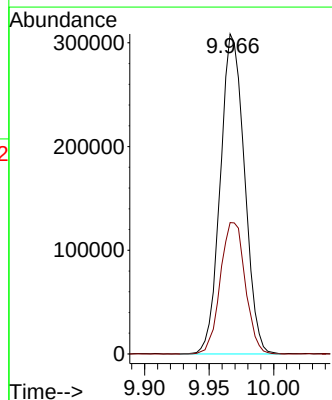
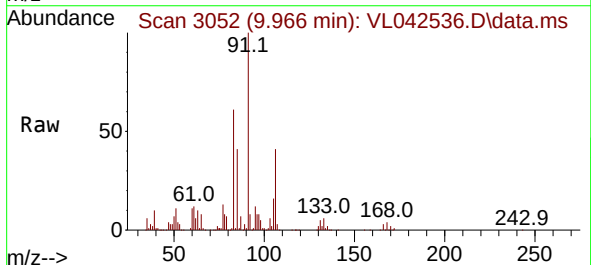
Manual Integrations
APPROVED

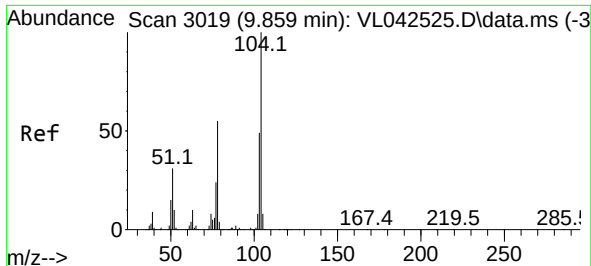
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#60
o-Xylene
Concen: 11.253 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.013 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Tgt Ion: 91 Resp: 400752
Ion Ratio Lower Upper
91 100
106 42.4 21.6 64.6





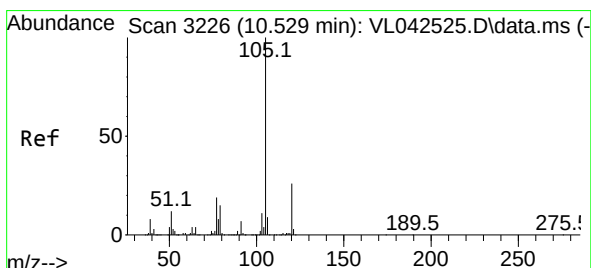
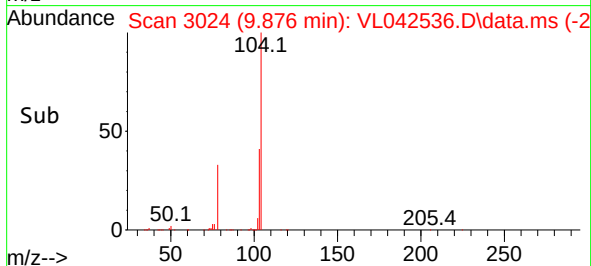
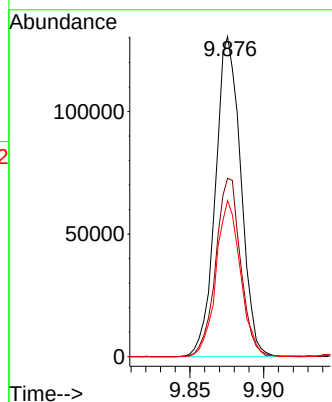
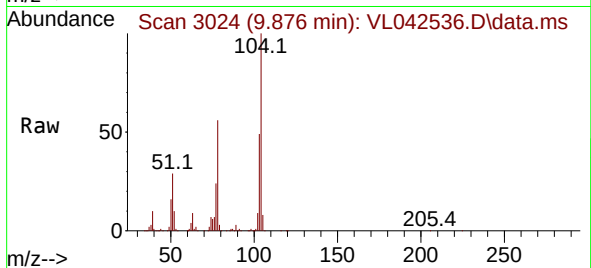
#61
Styrene
Concen: 11.809 ppbv
RT: 9.876 min Scan# 3019
Delta R.T. 0.016 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:104 Resp: 15575
Ion Ratio Lower Upper
104 100
78 54.9 44.7 67.1
103 47.2 38.6 58.0

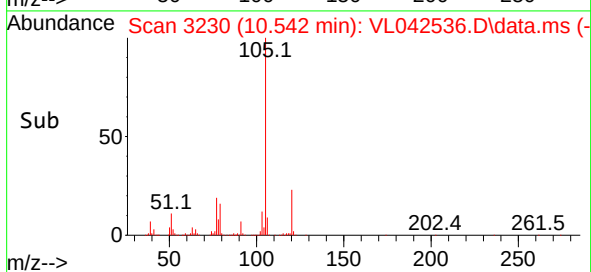
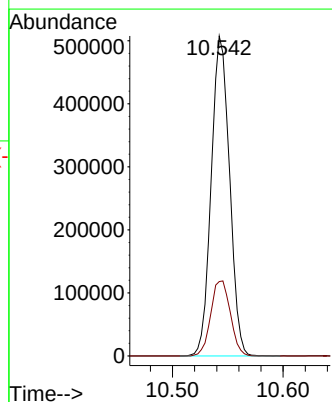
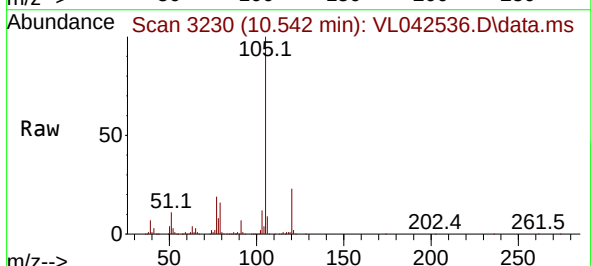
Manual Integrations
APPROVED

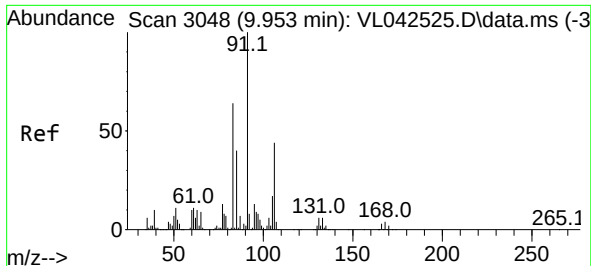
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#62
Isopropylbenzene
Concen: 10.866 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.013 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Tgt Ion:105 Resp: 582836
Ion Ratio Lower Upper
105 100
120 25.2 20.1 30.1





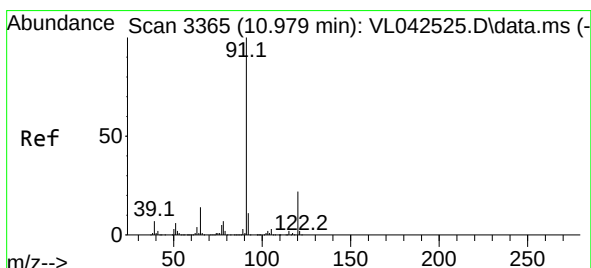
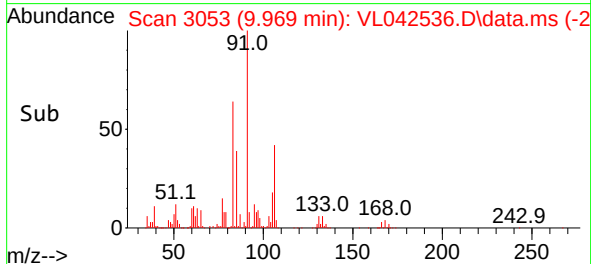
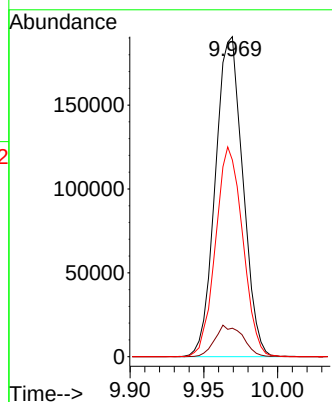
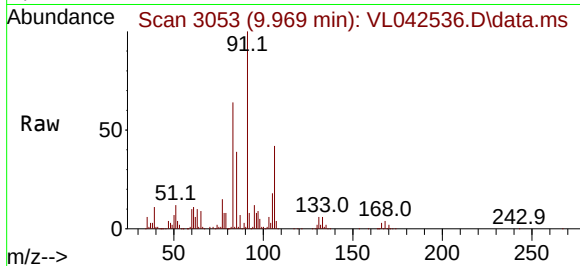
#63
1,1,2,2-Tetrachloroethane
Concen: 8.570 ppbv
RT: 9.969 min Scan# 3048
Delta R.T. 0.016 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 83 Resp: 247714
Ion Ratio Lower Upper
83 100
131 10.0 4.9 14.7
85 64.8 32.3 96.8

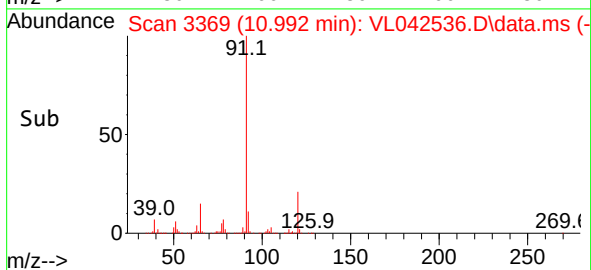
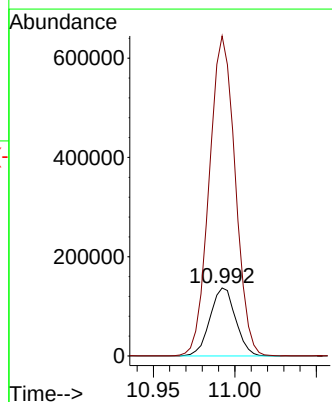
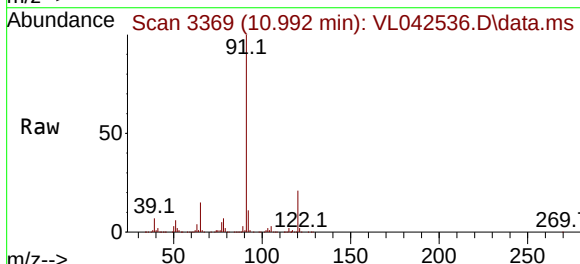
Manual Integrations
APPROVED

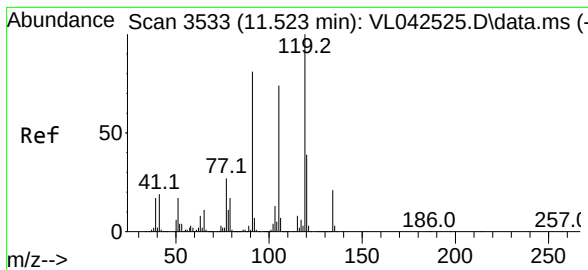
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#64
n-propylbenzene
Concen: 10.978 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.013 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Tgt Ion:120 Resp: 149494
Ion Ratio Lower Upper
120 100
91 479.1 377.7 566.5





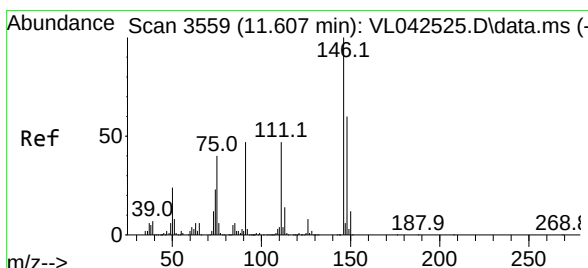
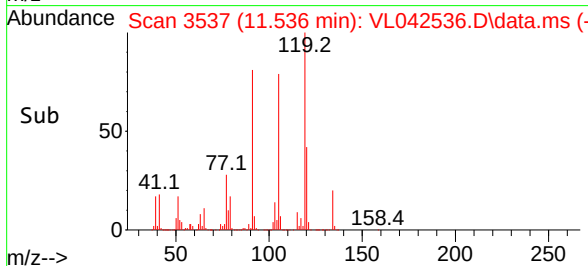
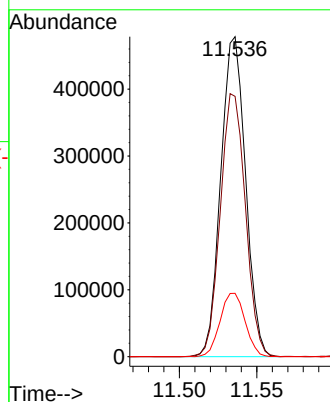
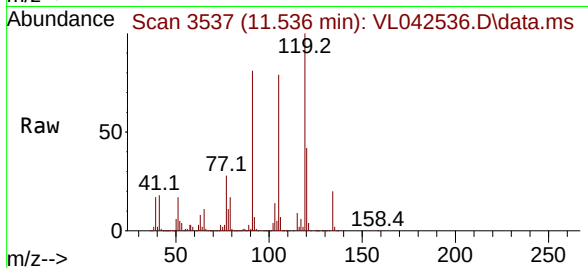
#65
tert-Butylbenzene
Concen: 10.790 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.013 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 119 Resp: 531415
Ion Ratio Lower Upper
119 100
91 83.5 66.6 99.8
134 20.0 16.3 24.5

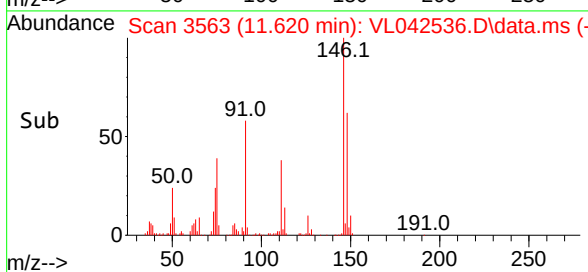
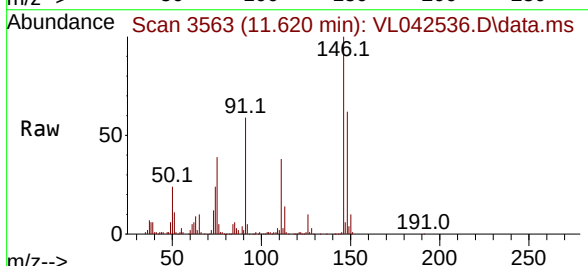
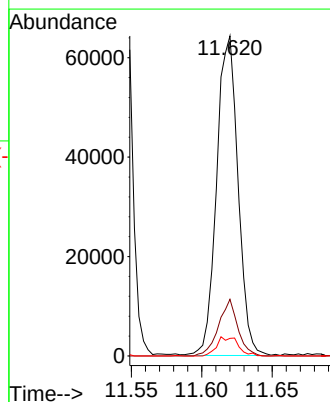
Manual Integrations
APPROVED

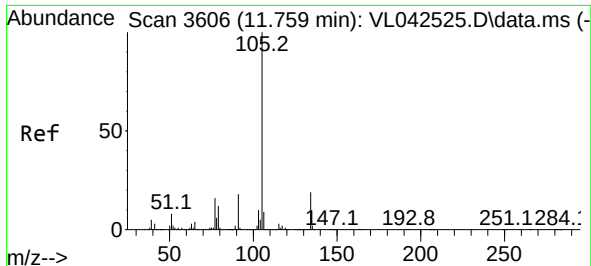
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#66
Benzyl Chloride
Concen: 10.391 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.013 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

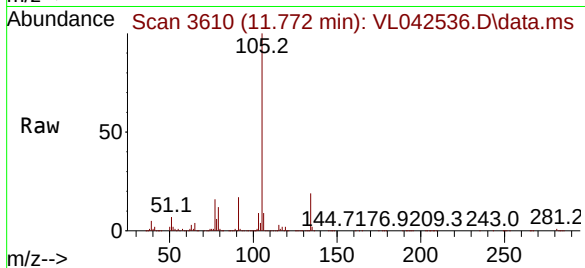
Tgt Ion: 91 Resp: 68005
Ion Ratio Lower Upper
91 100
126 16.0 13.7 20.5
128 6.1 4.2 6.2





#67
 sec-Butylbenzene
 Concen: 10.390 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.013 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

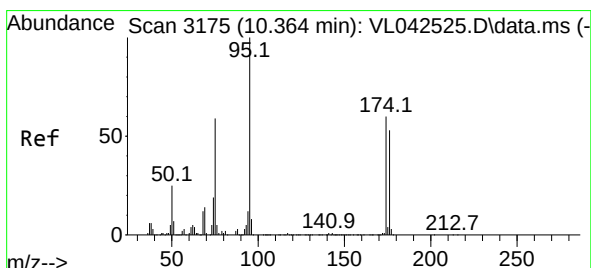
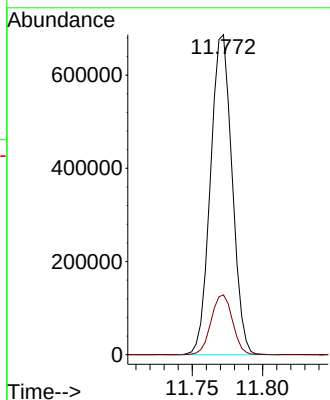
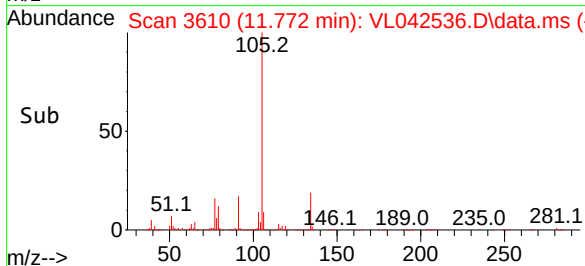
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



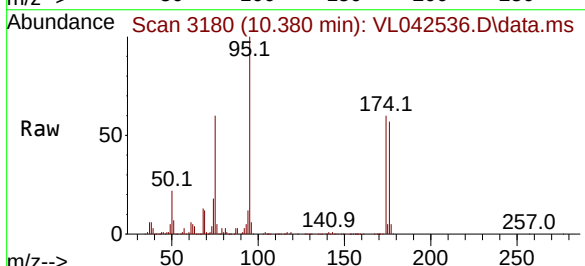
Tgt Ion:105 Resp: 73370
 Ion Ratio Lower Upper
 105 100
 134 18.6 14.9 22.3

Manual Integrations
 APPROVED

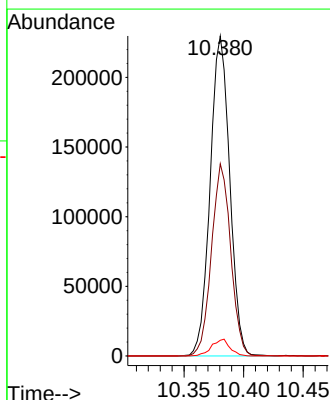
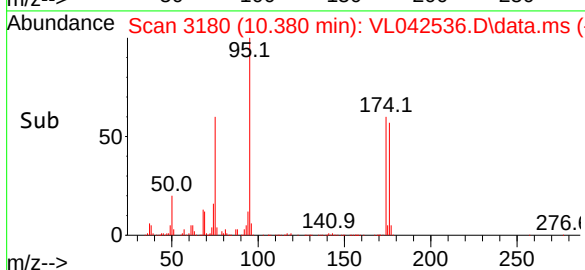
Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025

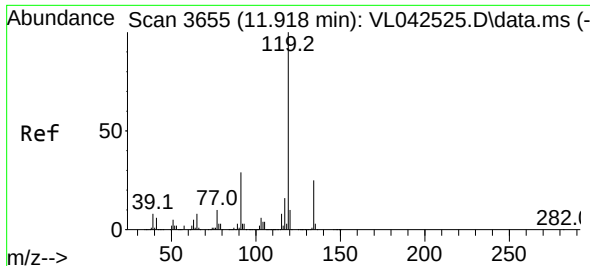


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.012 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. 0.016 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23



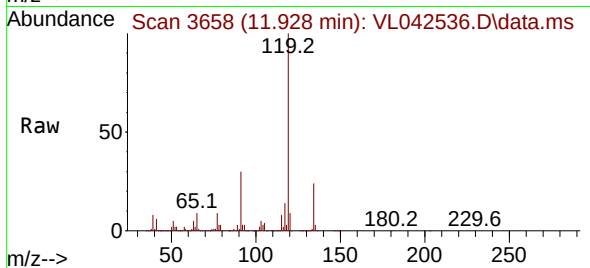
Tgt Ion: 95 Resp: 262420
 Ion Ratio Lower Upper
 95 100
 174 58.9 48.0 72.0
 175 4.9 3.5 5.3





#69
p-Isopropyltoluene
Concen: 11.049 ppbv
RT: 11.928 min Scan# 3658
Delta R.T. 0.010 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

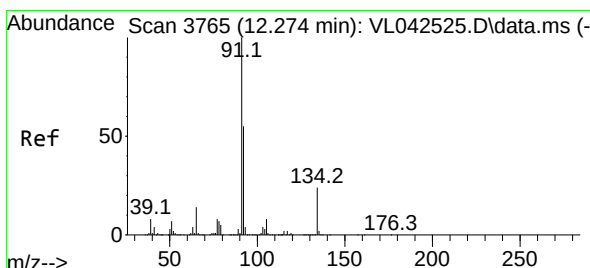
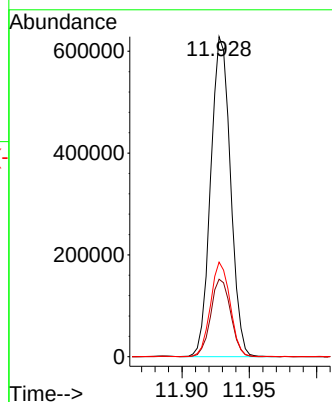
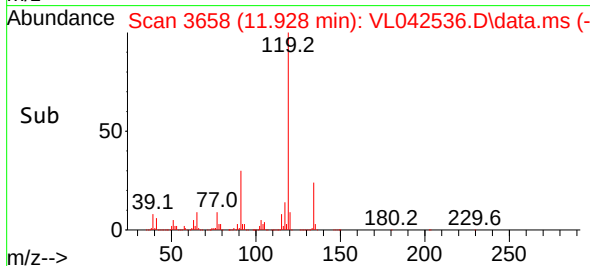
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



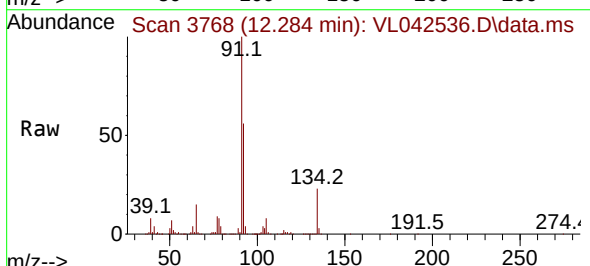
Tgt Ion: 119 Resp: 641428
Ion Ratio Lower Upper
119 100
134 24.5 19.8 29.6
91 29.4 23.6 35.4

Manual Integrations
APPROVED

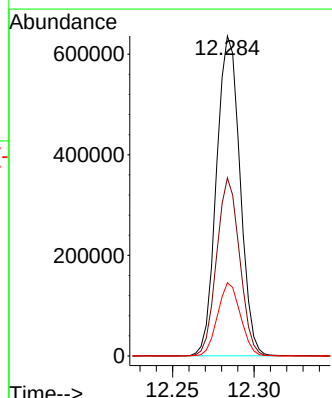
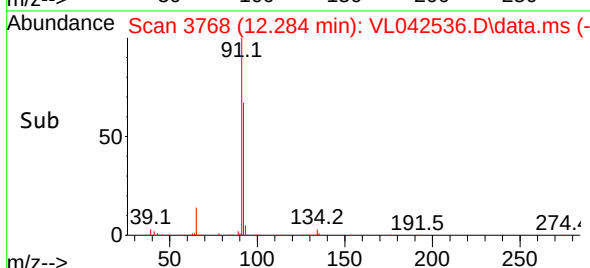
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

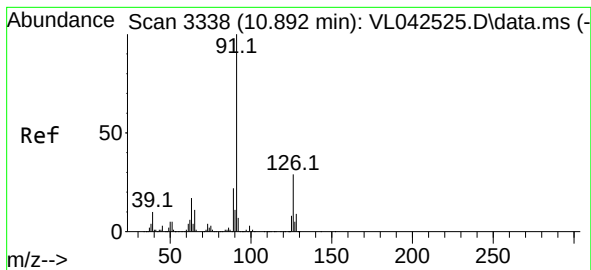


#70
n-Butylbenzene
Concen: 11.113 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.010 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23



Tgt Ion: 91 Resp: 637479
Ion Ratio Lower Upper
91 100
92 54.4 43.7 65.5
134 22.3 18.9 28.3





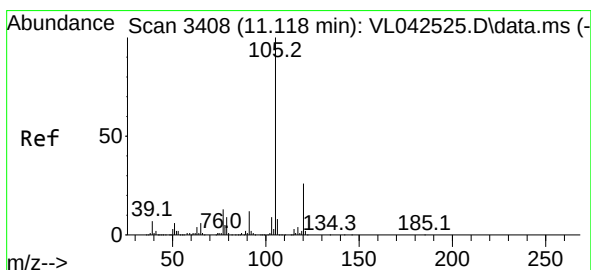
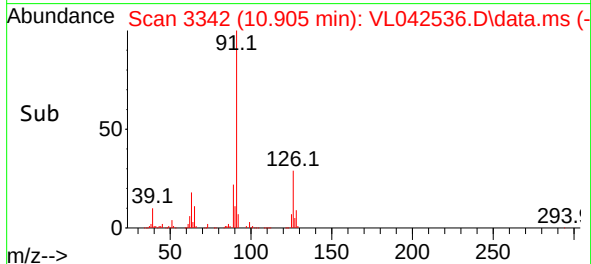
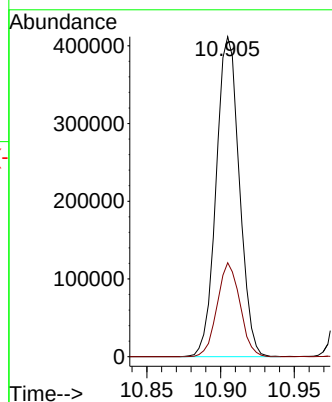
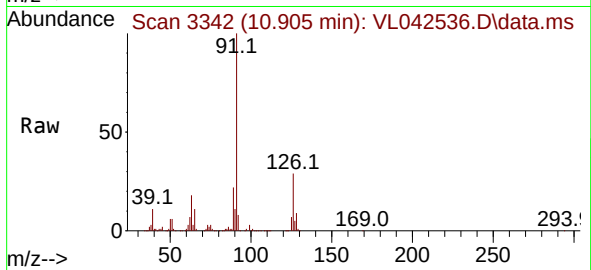
#71
2-Chlorotoluene
Concen: 11.075 ppbv
RT: 10.905 min Scan# 3111
Delta R.T. 0.013 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 449790
Ion Ratio Lower Upper
91 100
126 28.8 11.4 45.6

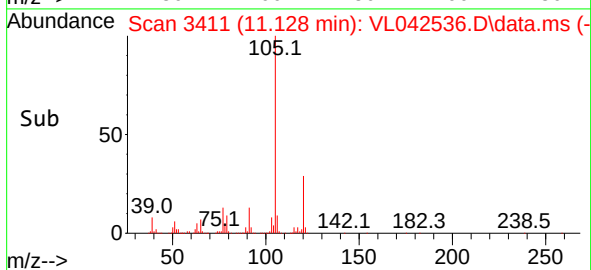
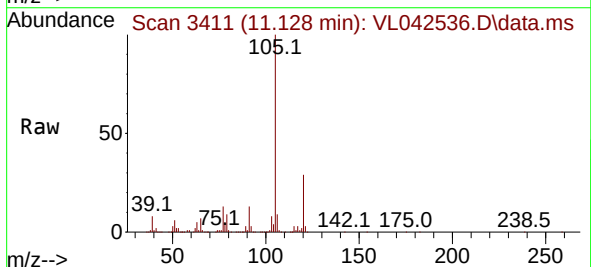
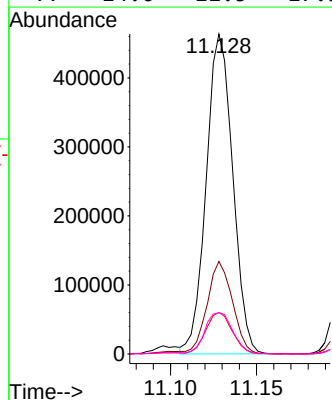
Manual Integrations
APPROVED

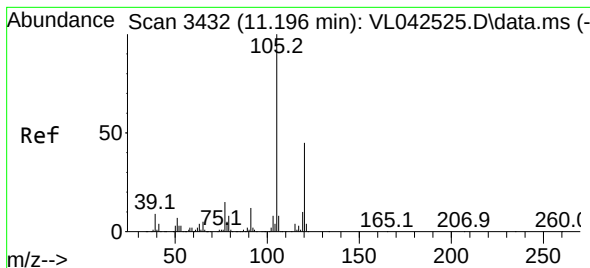
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#72
4-Ethyltoluene
Concen: 11.252 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.010 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

Tgt Ion:105 Resp: 497072
Ion Ratio Lower Upper
105 100
120 28.5 22.9 34.3
91 13.4 10.9 16.3
77 14.0 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 10.849 ppbv

RT: 11.206 min Scan# 3432

Delta R.T. 0.010 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion:105 Resp: 417484

Ion Ratio Lower Upper

105 100

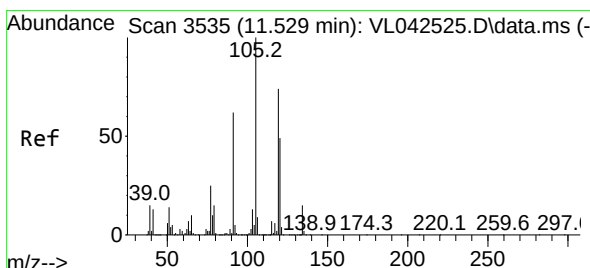
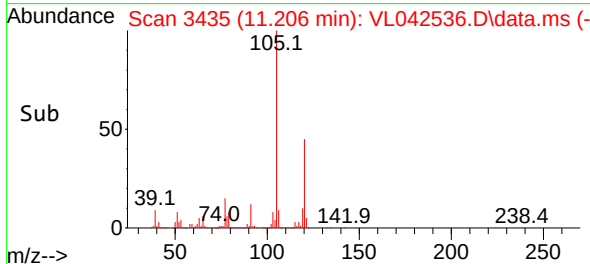
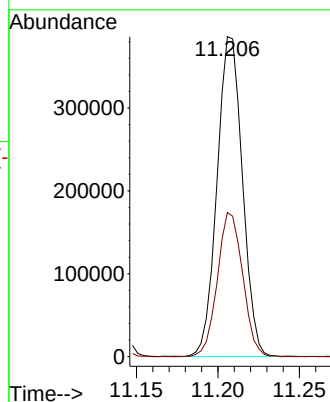
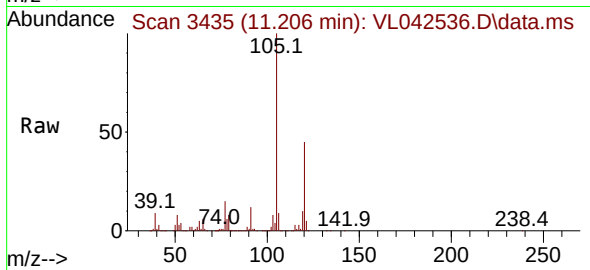
120 45.1 36.0 54.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#74

1,2,4-Trimethylbenzene

Concen: 10.016 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.010 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Tgt Ion:105 Resp: 474163

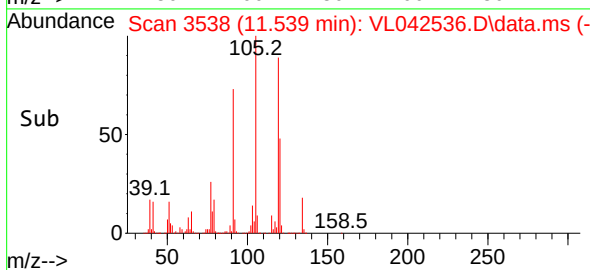
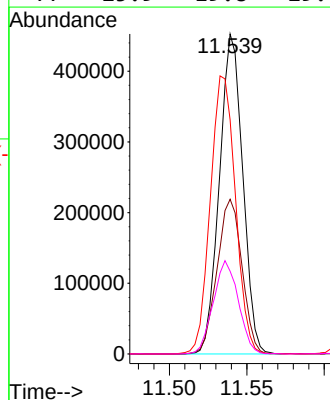
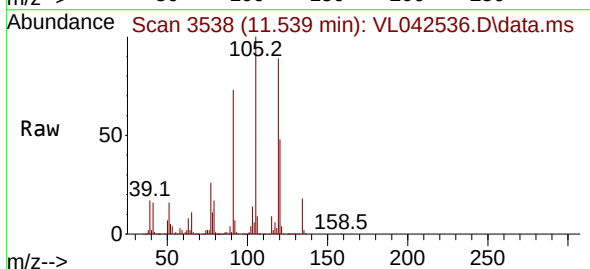
Ion Ratio Lower Upper

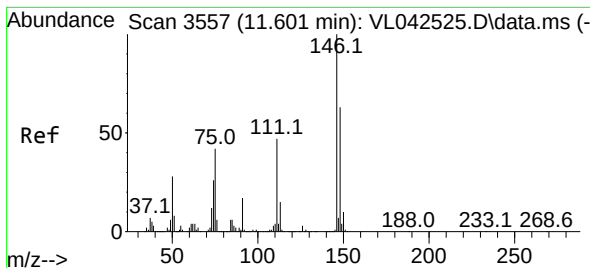
105 100

120 48.4 39.0 58.6

91 73.1 49.4 74.2

77 25.9 19.8 29.6





#75

1,3-Dichlorobenzene

Concen: 9.464 ppbv

RT: 11.610 min Scan# 3557

Delta R.T. 0.010 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

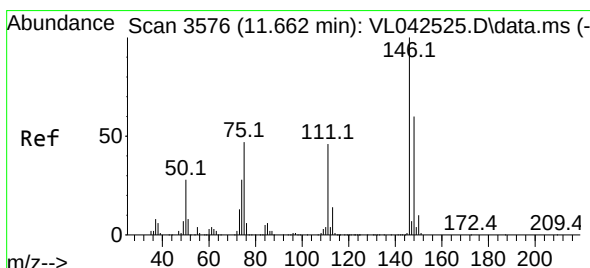
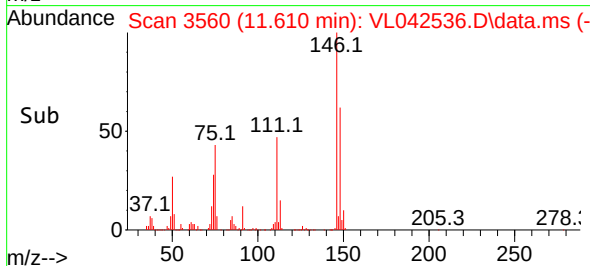
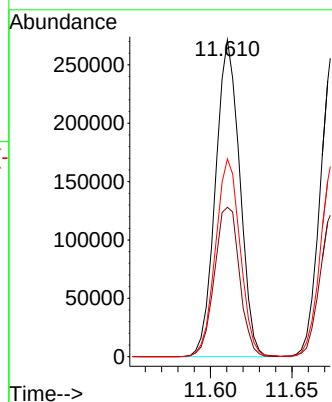
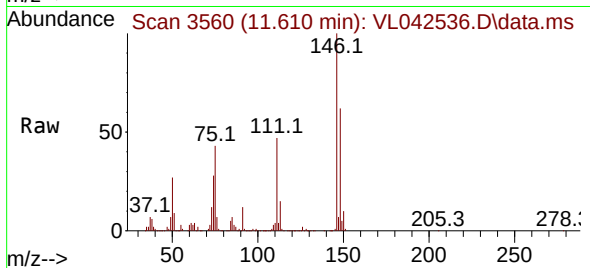
VSTDCCC010

Tgt Ion:146	Resp: 280620
Ion Ratio	Lower Upper
146 100	
111 48.9	23.6 71.0
148 63.2	31.6 94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#76

1,4-Dichlorobenzene

Concen: 9.958 ppbv

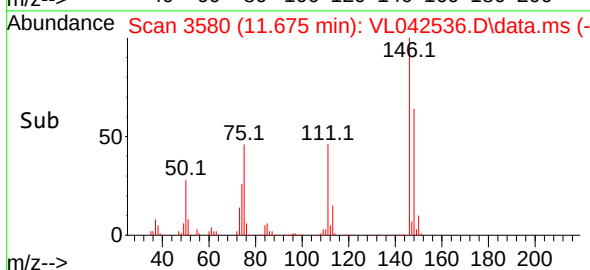
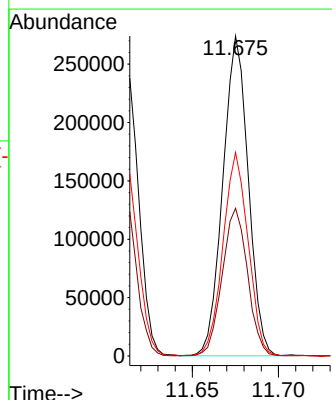
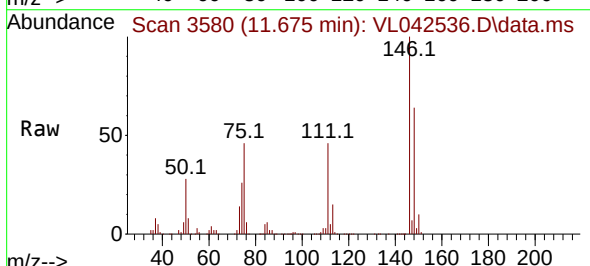
RT: 11.675 min Scan# 3580

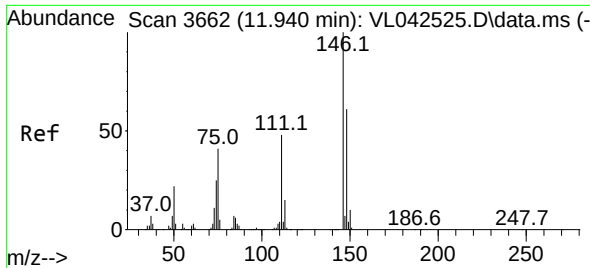
Delta R.T. 0.013 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

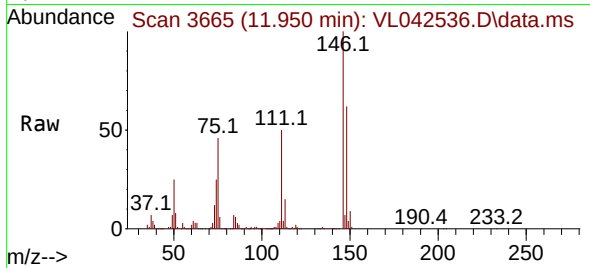
Tgt Ion:146	Resp: 280915
Ion Ratio	Lower Upper
146 100	
111 46.4	23.4 70.3
148 63.2	31.6 94.7





#77
1,2-Dichlorobenzene
Concen: 8.908 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.010 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23

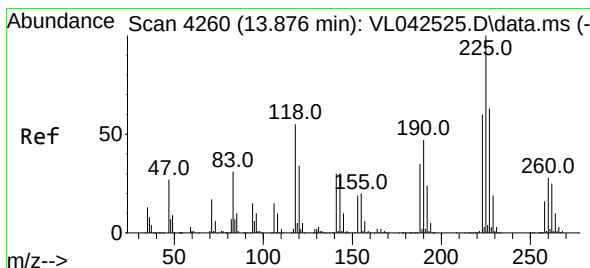
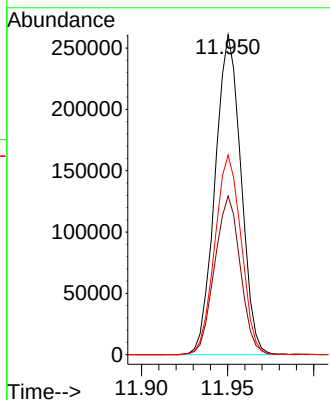
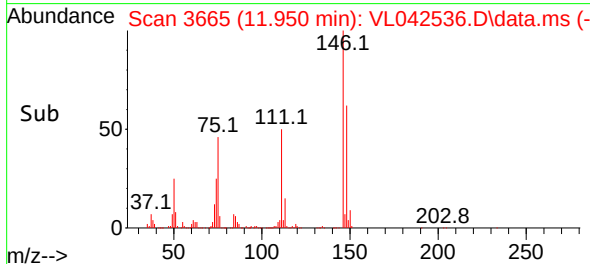
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



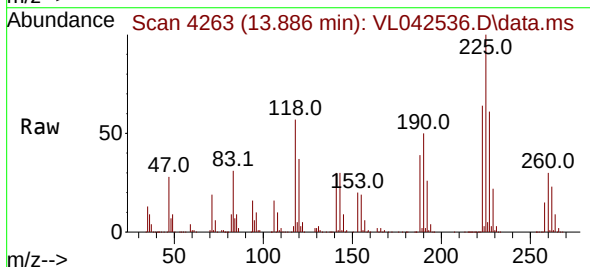
Tgt Ion:146 Resp: 272842
Ion Ratio Lower Upper
146 100
111 49.4 24.9 74.8
148 63.5 31.4 94.2

Manual Integrations
APPROVED

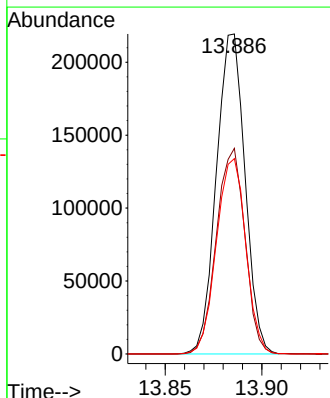
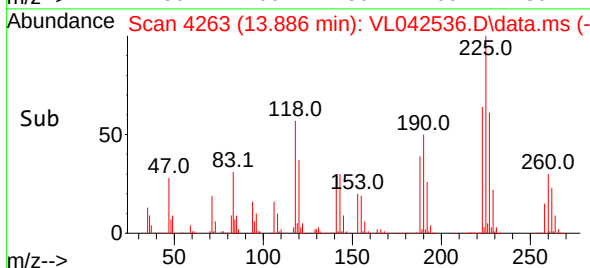
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

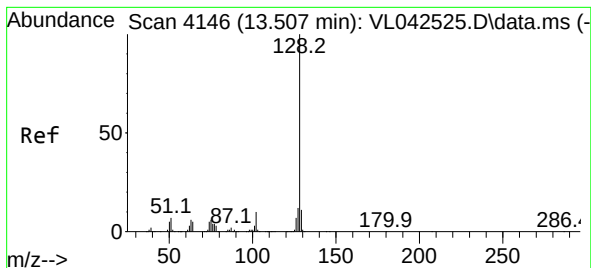


#78
Hexachloro-1,3-Butadiene
Concen: 8.588 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.010 min
Lab File: VL042536.D
Acq: 14 May 2025 10:23



Tgt Ion:225 Resp: 225532
Ion Ratio Lower Upper
225 100
223 64.0 50.8 76.2
227 62.5 50.5 75.7





#79

Naphthalene

Concen: 13.459 ppbv

RT: 13.517 min Scan# 4149

Delta R.T. 0.010 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

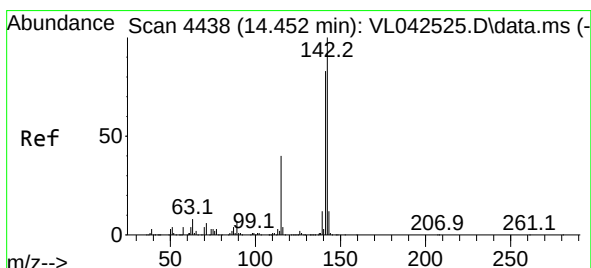
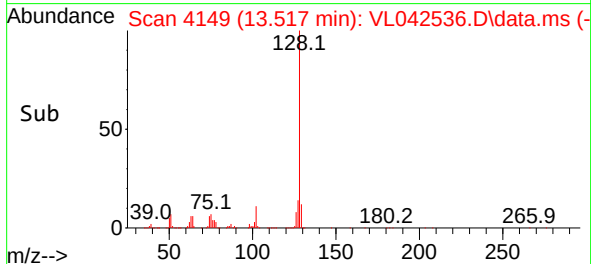
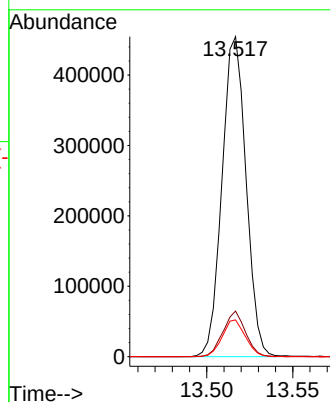
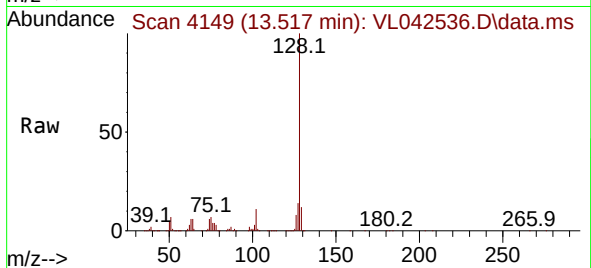
VSTDCCC010

Tgt Ion:128	Resp: 441570
Ion Ratio	Lower Upper
128 100	
127 14.2	9.8 14.8
129 11.5	8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#80

Naphthalene,2-methyl-

Concen: 14.525 ppbv

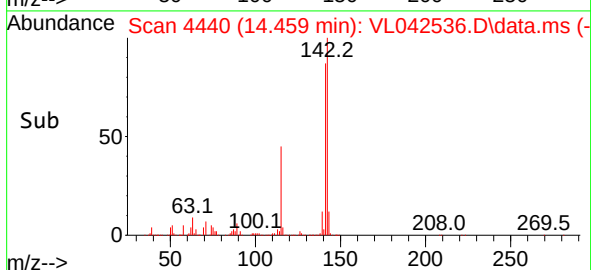
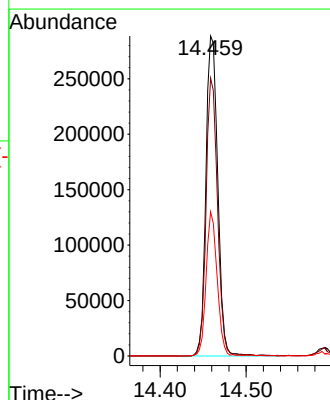
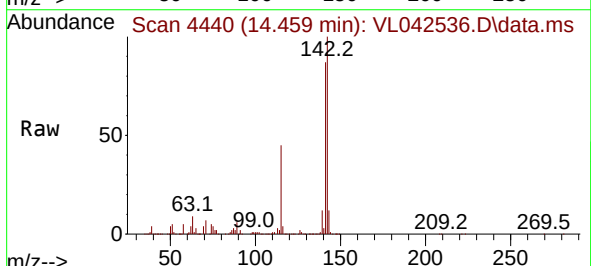
RT: 14.459 min Scan# 4440

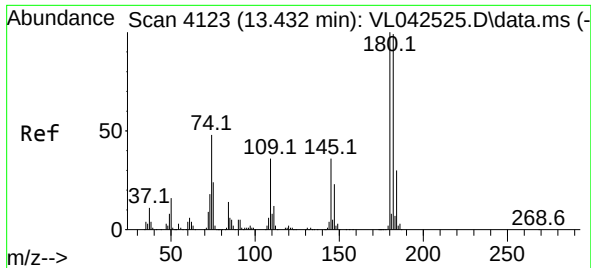
Delta R.T. 0.007 min

Lab File: VL042536.D

Acq: 14 May 2025 10:23

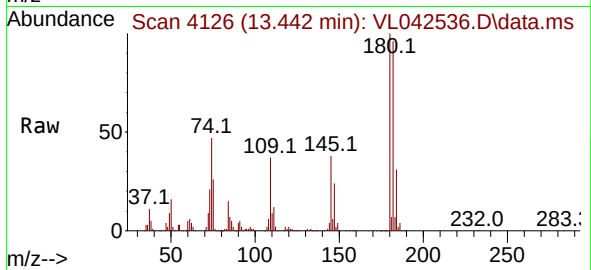
Tgt Ion:142	Resp: 275041
Ion Ratio	Lower Upper
142 100	
141 84.4	66.8 100.2
115 42.5	33.0 49.6





#81
 1,2,4-Trichlorobenzene
 Concen: 11.385 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.010 min
 Lab File: VL042536.D
 Acq: 14 May 2025 10:23

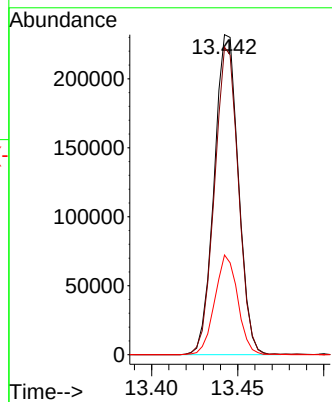
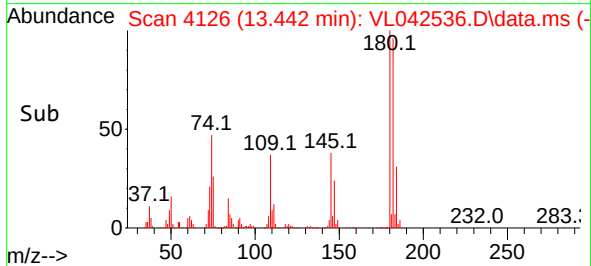
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion:180 Resp: 227198
 Ion Ratio Lower Upper
 180 100
 182 95.0 76.6 114.8
 184 29.5 24.6 36.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
 Data File : VL042536.D
 Acq On : 14 May 2025 10:23
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: May 15 01:31:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue May 13 02:07:03 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	102	0.01
2 T	Dichlorodifluoromethane	1.624	1.454	10.5	101	0.00
3	Chlorodifluoromethane	1.655	1.513	8.6	100	0.00
4	Chloromethane	0.663	0.593	10.6	103	0.00
5 T	Vinyl Chloride	0.678	0.550	18.9	101	0.00
6 T	Bromomethane	0.322	0.290	9.9	101	0.00
7	Chloroethane	0.268	0.214	20.1	98	0.00
8 T	Dichlorotetrafluoroethane	1.397	1.229	12.0	102	0.00
9 T	Propene	0.359	0.497	-38.4#	569#	0.00
10 T	Heptane	1.371	1.421	-3.6	98	0.03
11 T	Trichlorofluoromethane	1.562	1.483	5.1	108	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.255	1.191	5.1	110	0.01
13	Ethanol	0.097	0.069	28.9	104	0.00
14 T	Bromoethene	0.457	0.423	7.4	106	0.00
15 T	Acetone	1.612	1.223	24.1	103	0.00
16 T	1,3-Butadiene	0.719	0.645	10.3	102	0.00
17	tert-Butyl alcohol	1.477	1.420	3.9	105	0.00
18 T	1,1-Dichloroethene	0.550	0.528	4.0	109	0.00
19 T	Isopropyl Alcohol	0.868	0.793	8.6	104	0.00
20 T	Methylene Chloride	0.556	0.474	14.7	113	0.00
21 T	Allyl Chloride	1.058	1.017	3.9	105	0.00
22 T	trans-1,2-Dichloroethene	0.643	0.596	7.3	108	0.01
23 T	Vinyl Acetate	1.673	1.648	1.5	104	0.00
24 T	1,1-Dichloroethane	1.244	1.181	5.1	106	0.01
25 T	Ethyl Acetate	2.806	2.718	3.1	97	0.01
26 T	Hexane	1.152	1.209	-4.9	102	0.00
27 T	Carbon Disulfide	1.487	1.471	1.1	106	0.00
28 T	Methyl tert-Butyl Ether	0.640	0.714	-11.6	120	0.01
29 T	Chloroform	2.389	2.122	11.2	101	0.01
30 T	Cyclohexane	0.946	0.993	-5.0	99	0.02
31 T	cis-1,2-Dichloroethene	1.301	1.220	6.2	98	0.01
32 T	1,1,1-Trichloroethane	2.465	2.166	12.1	98	0.01
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	102	0.02
34 T	2-Butanone	0.659	0.571	13.4	97	0.00
35 T	Carbon Tetrachloride	0.899	0.804	10.6	101	0.02
36 T	Benzene	0.886	0.844	4.7	102	0.02
37 T	1,2-Dichloroethane	0.632	0.562	11.1	100	0.01
38 T	Trichloroethene	0.385	0.350	9.1	99	0.02
39 T	1,2-Dichloropropane	0.330	0.296	10.3	98	0.02
40 T	1,4-Dioxane	0.134	0.131	2.2	99	0.02
41 T	Tetrahydrofuran	0.285	0.297	-4.2	98	0.00
42 T	Bromodichloromethane	0.844	0.775	8.2	101	0.02
43	Methyl Methacrylate	0.297	0.310	-4.4	98	0.03
44 T	2,2,4-Trimethylpentane	1.404	1.390	1.0	99	0.02
45 T	t-1,3-Dichloropropene	0.379	0.389	-2.6	98	0.03
46 T	cis-1,3-Dichloropropene	0.456	0.468	-2.6	98	0.03
47 T	1,1,2-Trichloroethane	0.389	0.350	10.0	101	0.03
48 T	Dibromochloromethane	0.649	0.618	4.8	102	0.02

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
 Data File : VL042536.D
 Acq On : 14 May 2025 10:23
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: May 15 01:31:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue May 13 02:07:03 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	0.533	0.521	2.3	101	0.01
50 T	4-Methyl-2-Pentanone	0.774	0.799	-3.2	98	0.02
51 T	2-Hexanone	0.576	0.654	-13.5	100	0.02
52 T	Tetrachloroethene	0.339	0.304	10.3	98	0.02
53 T	Toluene	0.870	0.936	-7.6	100	0.03
54 T	1,2-Dibromoethane	0.568	0.527	7.2	100	0.02
55 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.02
56	1,1,1,2-Tetrachloroethane	0.620	0.552	11.0	100	0.02
57 T	Chlorobenzene	1.004	0.902	10.2	100	0.02
58 T	Ethyl Benzene	1.363	1.563	-14.7	100	0.02
59 T	m/p-Xylene	1.211	1.322	-9.2	99	0.02
60 T	o-Xylene	1.182	1.330	-12.5	100	0.01
61 T	Styrene	0.438	0.517	-18.0	102	0.02
62	Isopropylbenzene	1.780	1.935	-8.7	101	0.01
63 T	1,1,2,2-Tetrachloroethane	0.959	0.822	14.3	101	0.02
64	n-propylbenzene	0.452	0.496	-9.7	98	0.01
65	tert-Butylbenzene	1.635	1.764	-7.9	100	0.01
66 T	Benzyl Chloride	0.217	0.226	-4.1	102	0.01
67	sec-Butylbenzene	2.344	2.436	-3.9	99	0.01
68 S	1-Bromo-4-Fluorobenzene	0.870	0.871	-0.1	100	0.02
69	p-Isopropyltoluene	1.927	2.129	-10.5	99	0.00
70	n-Butylbenzene	1.904	2.116	-11.1	100	0.00
71	2-Chlorotoluene	1.348	1.493	-10.8	101	0.01
72 T	4-Ethyltoluene	1.466	1.650	-12.6	100	0.00
73 T	1,3,5-Trimethylbenzene	1.277	1.386	-8.5	98	0.00
74 T	1,2,4-Trimethylbenzene	1.572	1.574	-0.1	98	0.00
75 T	1,3-Dichlorobenzene	0.984	0.932	5.3	98	0.00
76 T	1,4-Dichlorobenzene	0.936	0.933	0.3	101	0.01
77 T	1,2-Dichlorobenzene	1.017	0.906	10.9	100	0.00
78 T	Hexachloro-1,3-Butadiene	0.872	0.749	14.1	103	0.00
79 T	Naphthalene	1.089	1.466	-34.6#	107	0.00
80 T	Naphthalene,2-methyl-	0.629	0.913	-45.2#	118	0.00
81 T	1,2,4-Trichlorobenzene	0.662	0.754	-13.9	104	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
 Data File : VL042536.D
 Acq On : 14 May 2025 10:23
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: May 15 01:31:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue May 13 02:07:03 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	102	0.01
2 T	Dichlorodifluoromethane	10.000	8.955	10.4	101	0.00
3	Chlorodifluoromethane	10.000	9.142	8.6	100	0.00
4	Chloromethane	10.000	8.951	10.5	103	0.00
5 T	Vinyl Chloride	10.000	8.113	18.9	101	0.00
6 T	Bromomethane	10.000	9.007	9.9	101	0.00
7	Chloroethane	10.000	7.999	20.0	98	0.00
8 T	Dichlorotetrafluoroethane	10.000	8.795	12.1	102	0.00
9 T	Propene	10.000	13.846	-38.5#	569	0.00
10 T	Heptane	10.000	10.358	-3.6	98	0.03
11 T	Trichlorofluoromethane	10.000	9.493	5.1	108	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.496	5.0	110	0.01
13	Ethanol	10.000	7.187	28.1	104	0.00
14 T	Bromoethene	10.000	9.254	7.5	106	0.00
15 T	Acetone	10.000	7.586	24.1	103	0.00
16 T	1,3-Butadiene	10.000	8.972	10.3	102	0.00
17	tert-Butyl alcohol	10.000	9.620	3.8	105	0.00
18 T	1,1-Dichloroethene	10.000	9.607	3.9	109	0.00
19 T	Isopropyl Alcohol	10.000	9.138	8.6	104	0.00
20 T	Methylene Chloride	10.000	8.523	14.8	113	0.00
21 T	Allyl Chloride	10.000	9.609	3.9	105	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.270	7.3	108	0.01
23 T	Vinyl Acetate	10.000	9.852	1.5	104	0.00
24 T	1,1-Dichloroethane	10.000	9.491	5.1	106	0.01
25 T	Ethyl Acetate	10.000	9.689	3.1	97	0.01
26 T	Hexane	10.000	10.498	-5.0	102	0.00
27 T	Carbon Disulfide	10.000	9.889	1.1	106	0.00
28 T	Methyl tert-Butyl Ether	10.000	11.156	-11.6	120	0.01
29 T	Chloroform	10.000	8.880	11.2	101	0.01
30 T	Cyclohexane	10.000	10.502	-5.0	99	0.02
31 T	cis-1,2-Dichloroethene	10.000	9.383	6.2	98	0.01
32 T	1,1,1-Trichloroethane	10.000	8.787	12.1	98	0.01
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	102	0.02
34 T	2-Butanone	10.000	8.664	13.4	97	0.00
35 T	Carbon Tetrachloride	10.000	8.947	10.5	101	0.02
36 T	Benzene	10.000	9.521	4.8	102	0.02
37 T	1,2-Dichloroethane	10.000	8.885	11.2	100	0.01
38 T	Trichloroethene	10.000	9.092	9.1	99	0.02
39 T	1,2-Dichloropropane	10.000	8.967	10.3	98	0.02
40 T	1,4-Dioxane	10.000	9.810	1.9	99	0.02
41 T	Tetrahydrofuran	10.000	10.412	-4.1	98	0.00
42 T	Bromodichloromethane	10.000	9.183	8.2	101	0.02
43	Methyl Methacrylate	10.000	10.440	-4.4	98	0.03
44 T	2,2,4-Trimethylpentane	10.000	9.900	1.0	99	0.02
45 T	t-1,3-Dichloropropene	10.000	10.271	-2.7	98	0.03
46 T	cis-1,3-Dichloropropene	10.000	10.268	-2.7	98	0.03
47 T	1,1,2-Trichloroethane	10.000	8.999	10.0	101	0.03
48 T	Dibromochloromethane	10.000	9.523	4.8	102	0.02

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
 Data File : VL042536.D
 Acq On : 14 May 2025 10:23
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: May 15 01:31:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue May 13 02:07:03 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	Bromoform	10.000	9.790	2.1	101	0.01
50 T	4-Methyl-2-Pentanone	10.000	10.326	-3.3	98	0.02
51 T	2-Hexanone	10.000	11.360	-13.6	100	0.02
52 T	Tetrachloroethene	10.000	8.964	10.4	98	0.02
53 T	Toluene	10.000	10.761	-7.6	100	0.03
54 T	1,2-Dibromoethane	10.000	9.275	7.2	100	0.02
55 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.02
56	1,1,1,2-Tetrachloroethane	10.000	8.904	11.0	100	0.02
57 T	Chlorobenzene	10.000	8.989	10.1	100	0.02
58 T	Ethyl Benzene	10.000	11.466	-14.7	100	0.02
59 T	m/p-Xylene	20.000	21.838	-9.2	99	0.02
60 T	o-Xylene	10.000	11.253	-12.5	100	0.01
61 T	Styrene	10.000	11.809	-18.1	102	0.02
62	Isopropylbenzene	10.000	10.866	-8.7	101	0.01
63 T	1,1,2,2-Tetrachloroethane	10.000	8.570	14.3	101	0.02
64	n-propylbenzene	10.000	10.978	-9.8	98	0.01
65	tert-Butylbenzene	10.000	10.790	-7.9	100	0.01
66 T	Benzyl Chloride	10.000	10.391	-3.9	102	0.01
67	sec-Butylbenzene	10.000	10.390	-3.9	99	0.01
68 S	1-Bromo-4-Fluorobenzene	10.000	10.012	-0.1	100	0.02
69	p-Isopropyltoluene	10.000	11.049	-10.5	99	0.00
70	n-Butylbenzene	10.000	11.113	-11.1	100	0.00
71	2-Chlorotoluene	10.000	11.075	-10.7	101	0.01
72 T	4-Ethyltoluene	10.000	11.252	-12.5	100	0.00
73 T	1,3,5-Trimethylbenzene	10.000	10.849	-8.5	98	0.00
74 T	1,2,4-Trimethylbenzene	10.000	10.016	-0.2	98	0.00
75 T	1,3-Dichlorobenzene	10.000	9.464	5.4	98	0.00
76 T	1,4-Dichlorobenzene	10.000	9.958	0.4	101	0.01
77 T	1,2-Dichlorobenzene	10.000	8.908	10.9	100	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	8.588	14.1	103	0.00
79 T	Naphthalene	10.000	13.459	-34.6#	107	0.00
80 T	Naphthalene,2-methyl-	10.000	14.525	-45.3#	118	0.00
81 T	1,2,4-Trichlorobenzene	10.000	11.385	-13.8	104	0.00

(#) = Out of Range

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



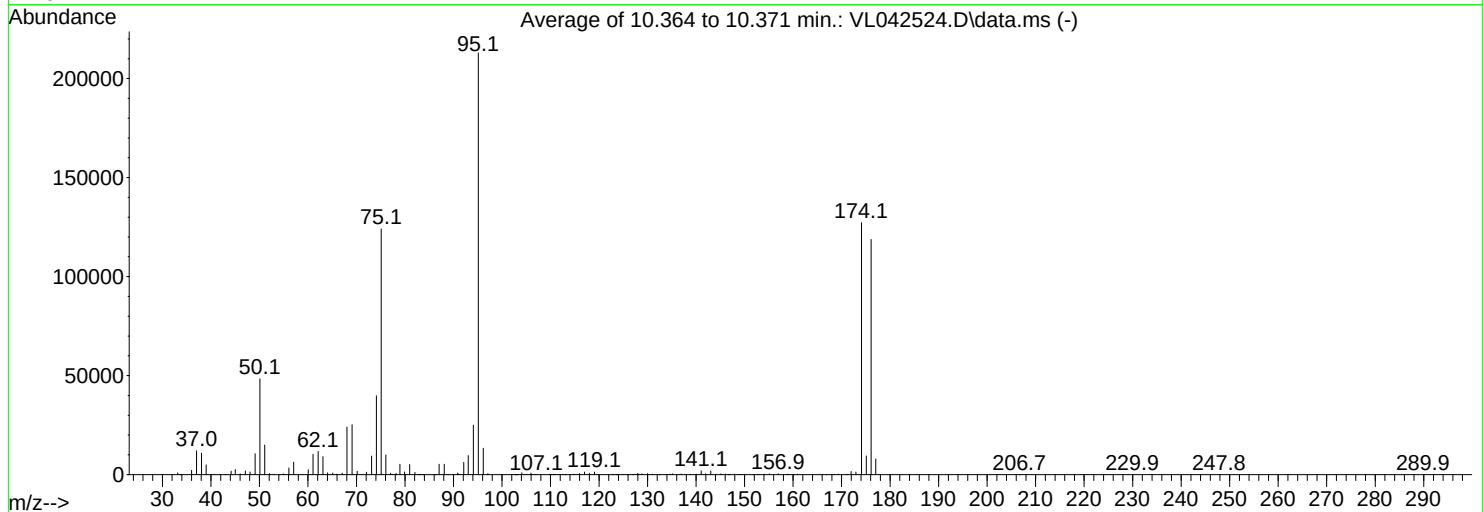
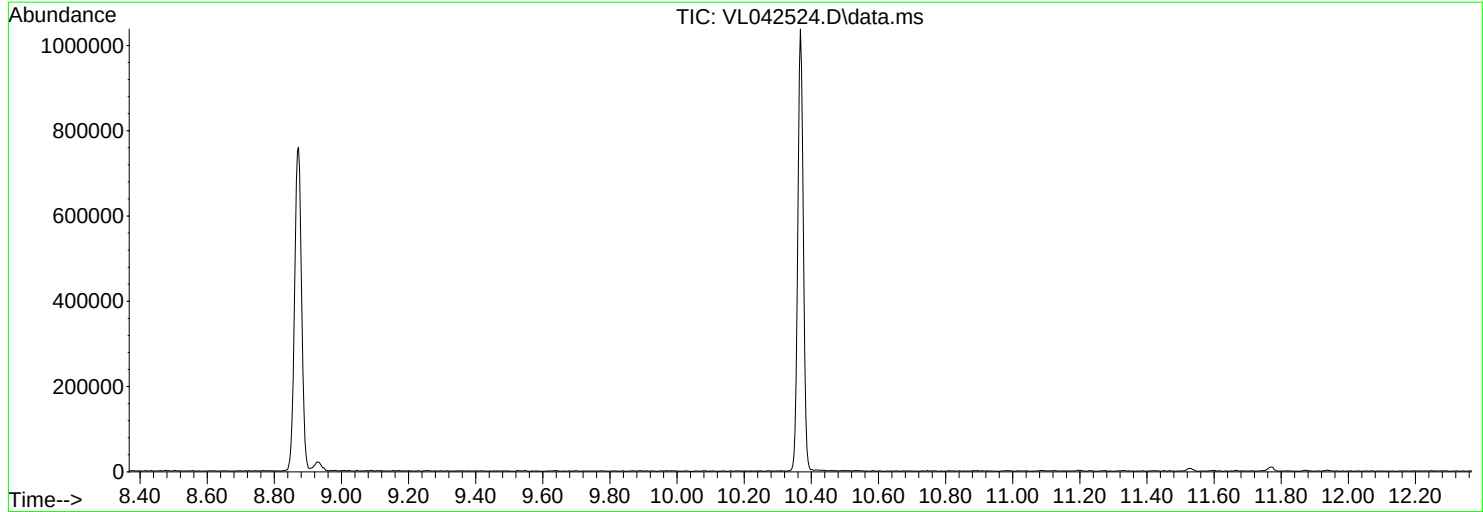
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
Data File : VL042524.D
Acq On : 12 May 2025 07:58
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\VL051225AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Tue May 13 02:07:03 2025



AutoFind: Scans 3175, 3176, 3177; Background Corrected with Scan 3159

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.7	48371	PASS
75	95	30	66	58.3	124085	PASS
95	95	100	100	100.0	212971	PASS
96	95	5	9	6.3	13350	PASS
173	174	0.00	2	1.0	1276	PASS
174	95	50	120	59.7	127141	PASS
175	174	4	9	7.4	9432	PASS
176	174	93	101	93.4	118768	PASS
177	176	5	9	6.7	7924	PASS

Average of 10.364 to 10.371 min.: VL042524.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.15	868	45.00	2557	55.20	95	65.85	23
33.70	39	46.05	386	56.05	3385	67.05	76
36.00	2167	47.10	1839	57.05	6316	68.05	2397
37.05	12047	48.05	1342	58.05	287	69.10	2519
38.05	10800	49.10	10630	59.00	57	70.15	1666
39.00	4939	50.10	48371	60.05	2504	71.10	140
39.95	104	51.10	14914	61.05	10298	72.05	1243
40.85	57	52.10	608	62.10	11719	73.10	9363
41.85	135	53.00	182	63.10	9057	74.10	39824
42.90	31	54.00	32	64.05	890	75.10	124085
44.15	1778	54.90	412	65.10	838	76.05	9975

Average of 10.364 to 10.371 min.: VL042524.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.05	752	87.05	5236	97.10	611	109.85	70
77.40	137	88.10	5237	99.80	50	110.20	83
78.15	629	88.80	28	102.70	40	110.60	38
78.95	5264	89.80	40	102.90	39	111.05	95
79.90	1363	90.85	809	103.10	21	111.75	118
80.95	5062	91.10	297	104.10	977	112.55	148
82.05	1164	92.10	6139	104.75	111	113.00	37
82.80	30	93.05	9614	105.15	252	114.80	282
83.20	164	94.10	24992	105.95	832	115.95	562
83.70	37	95.10	212971	106.85	107	117.00	1265
86.20	44	96.15	13350	107.10	110	118.00	762

Average of 10.364 to 10.371 min.: VL042524.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
119.05	1319	130.00	547	141.95	384	151.80	24
121.90	49	130.95	252	143.05	1855	152.05	63
122.80	31	132.40	24	144.10	364	152.65	109
123.50	40	133.65	63	145.10	399	153.00	112
123.80	139	134.65	258	146.05	353	154.05	247
124.90	89	135.15	380	146.70	29	155.10	393
125.90	17	135.95	104	146.90	130	156.95	440
127.00	18	136.95	359	147.90	332	158.85	237
127.90	569	138.90	182	148.85	144	159.10	85
128.20	348	140.05	255	149.20	149	160.10	19
128.85	429	141.05	1965	150.05	234	160.90	266

Average of 10.364 to 10.371 min.: VL042524.D\data.ms

BFB

Modified:subtracted

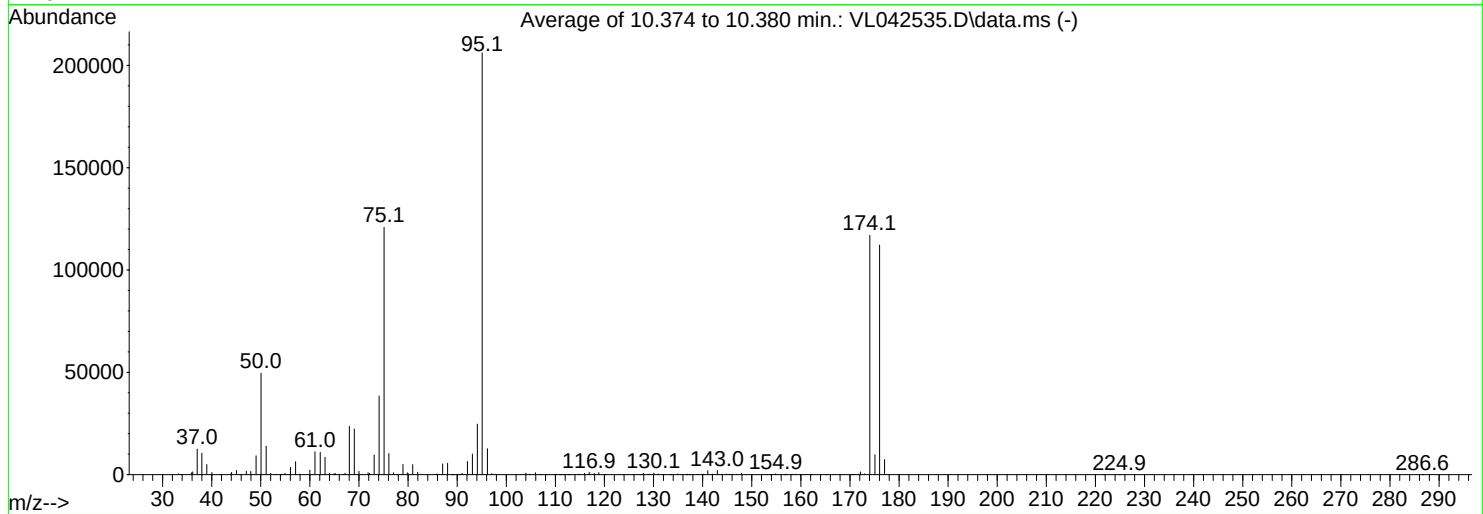
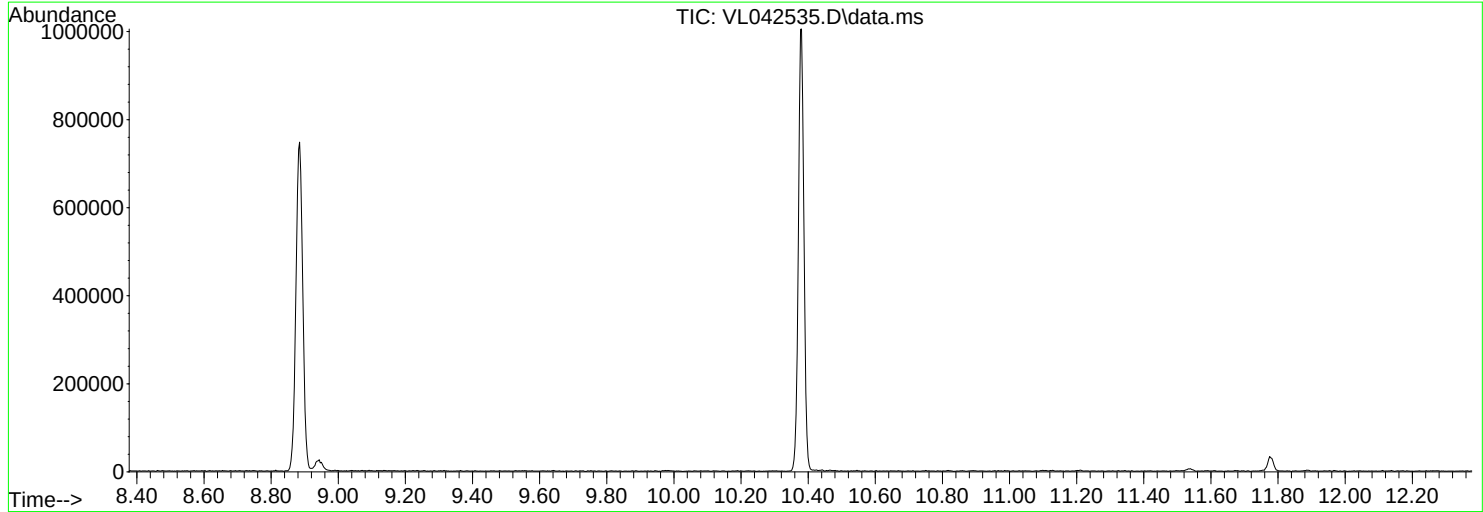
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
166.80	42	177.05	7924				
168.50	151	178.00	150				
169.35	220	206.70	26				
170.00	83	229.95	84				
170.95	194	247.85	96				
171.20	124	289.90	39				
171.95	1635						
172.95	1276						
174.10	127141						
175.10	9432						
176.10	118768						

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
Data File : VL042535.D
Acq On : 14 May 2025 09:38
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\VL051225AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Tue May 13 02:07:03 2025



AutoFind: Scans 3178, 3179, 3180; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.0	49571	PASS
75	95	30	66	58.7	120923	PASS
95	95	100	100	100.0	206144	PASS
96	95	5	9	6.1	12656	PASS
173	174	0.00	2	0.3	380	PASS
174	95	50	120	56.7	116965	PASS
175	174	4	9	8.3	9688	PASS
176	174	93	101	95.9	112221	PASS
177	176	5	9	6.6	7384	PASS

Average of 10.374 to 10.380 min.: VL042535.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.20	509	45.05	2002	54.95	664	65.80	41
33.75	20	46.05	167	56.05	3620	66.05	24
35.90	920	47.05	1739	57.10	6311	66.90	18
36.15	1326	47.95	1582	57.90	352	67.15	69
37.05	12527	49.05	9223	60.00	2175	68.05	23653
38.00	10489	50.05	49571	61.05	11173	69.05	22405
39.00	4948	51.10	13889	62.10	10894	70.00	1687
40.05	1008	52.05	625	63.10	8527	71.85	925
41.80	24	52.85	103	64.00	697	72.15	646
43.90	286	53.20	138	64.95	562	73.10	9584
44.05	1067	54.00	33	65.20	499	74.10	38464

Average of 10.374 to 10.380 min.: VL042535.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
75.10	120923	87.05	5232	96.15	12656	109.80	35
76.10	10335	88.05	5557	97.05	517	110.15	136
77.05	958	88.90	22	97.95	57	110.90	70
77.80	114	89.20	26	102.80	48	111.10	35
78.95	4993	90.40	108	104.00	823	111.70	43
79.85	962	90.80	155	104.80	229	111.90	129
80.10	416	91.00	605	105.00	97	112.60	65
80.95	4943	92.10	6453	105.95	916	112.80	47
81.95	1211	93.10	10104	106.75	135	114.75	202
83.00	98	94.10	24733	107.20	95	115.00	80
85.90	404	95.10	206144	108.15	36	115.95	659

Average of 10.374 to 10.380 min.: VL042535.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
116.90	1080	127.95	564	136.95	278	145.55	224
117.90	548	128.90	145	137.30	31	146.05	212
118.85	1032	129.15	248	138.80	75	146.90	125
120.10	26	129.80	189	139.05	53	147.95	538
122.90	52	130.05	758	139.90	68	148.90	94
123.70	20	131.00	346	140.10	218	149.90	115
124.65	99	132.00	43	141.05	1978	152.90	49
125.85	41	133.40	29	142.00	231	153.20	59
127.00	59	134.95	383	143.00	2028	153.80	34
127.40	23	135.80	56	144.00	181	154.05	78
127.70	235	136.60	31	144.90	311	154.90	476

Average of 10.374 to 10.380 min.: VL042535.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
155.95	194	166.65	137	175.10	9688		
156.60	37	167.80	29	176.05	112221		
157.15	274	168.60	61	177.05	7384		
157.90	18	170.30	70	177.90	30		
158.35	64	170.50	108	178.10	190		
159.00	246	170.90	85	221.70	27		
159.85	43	171.20	116	224.90	32		
160.60	93	171.70	232	286.65	47		
161.05	130	172.15	1354				
162.10	23	173.00	380				
165.10	24	174.05	116965				

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	12 Maplewood St, Malden MA	Date Received:	
Client Sample ID:	VL0514ABL01	SDG No.:	Q2011
Lab Sample ID:	VL0514ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042537.D	1		05/14/25 11:09	VL051425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.50			65 - 135	95%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	117000		2.79			
540-36-3	1,4-Difluorobenzene	336000		3.965			
3114-55-4	Chlorobenzene-d5	289000		8.888			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
 Data File : VL042537.D
 Acq On : 14 May 2025 11:09
 Operator : SY/MD
 Sample : VL0514ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0514ABL01

Quant Time: May 15 01:32:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue May 13 02:07:03 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	116915	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.965	114	336117	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.888	117	289273	10.000	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	238085	9.459	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.600%

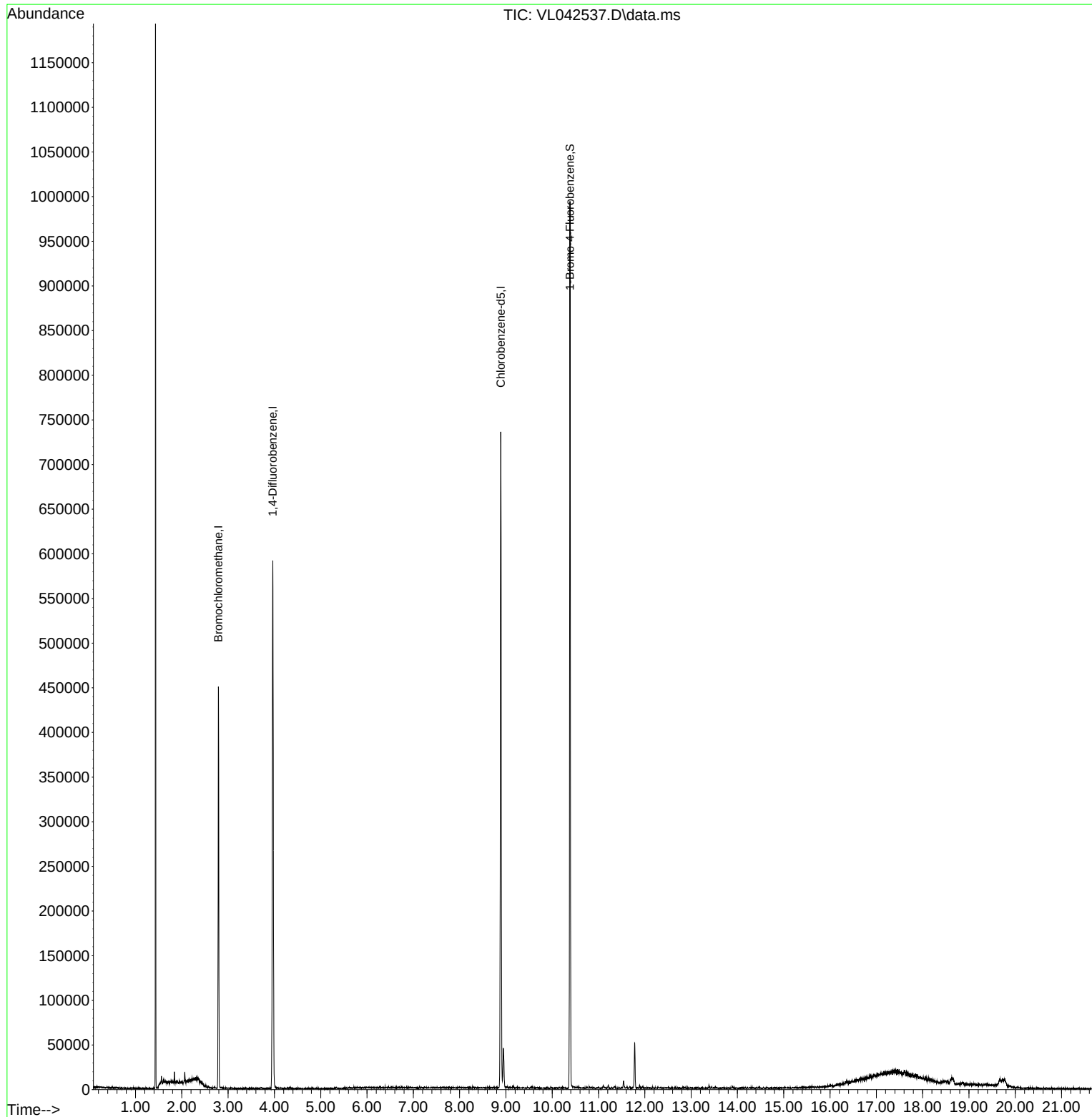
Target Compounds	Qvalue

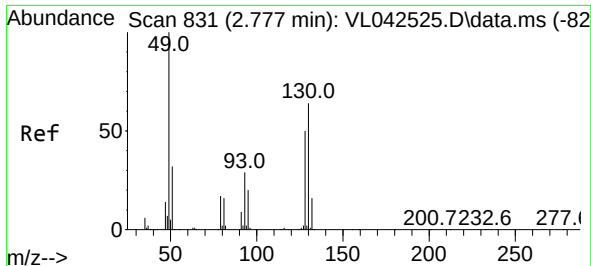
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
Data File : VL042537.D
Acq On : 14 May 2025 11:09
Operator : SY/MD
Sample : VL0514ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0514ABL01

Quant Time: May 15 01:32:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue May 13 02:07:03 2025
Response via : Initial Calibration

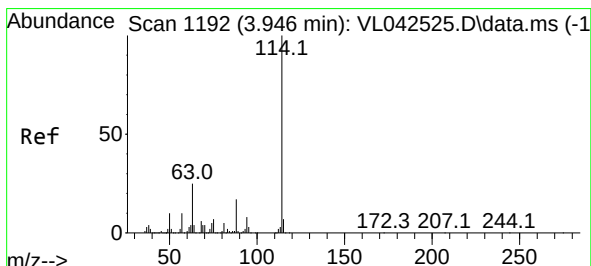
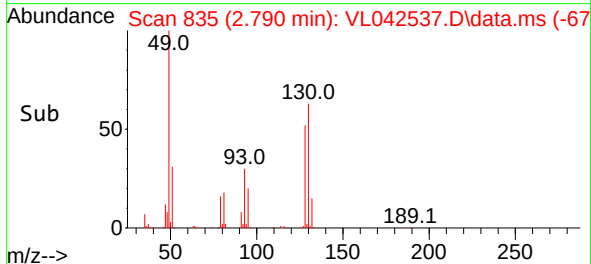
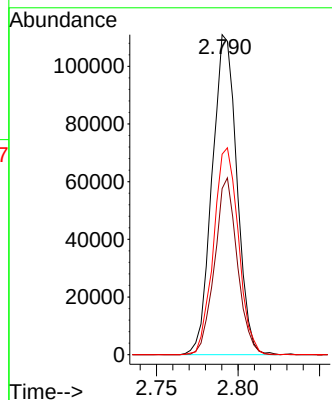
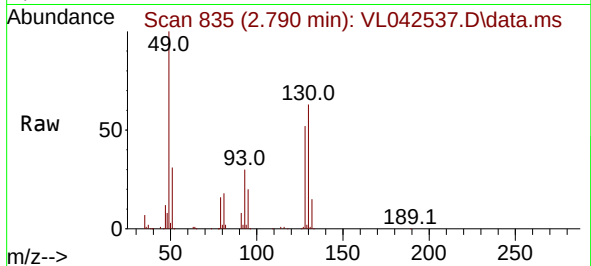




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL042537.D
Acq: 14 May 2025 11:09

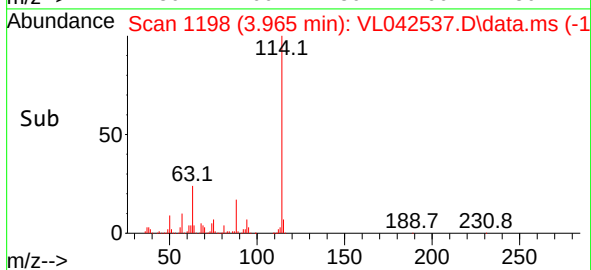
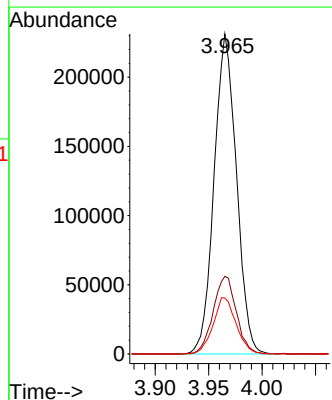
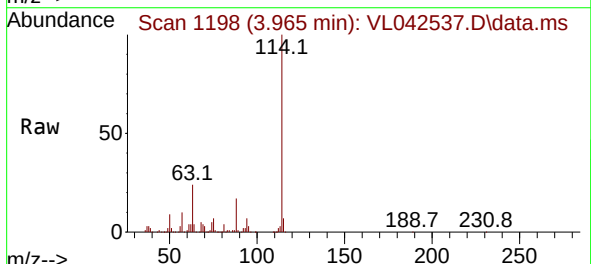
Instrument :
MSVOA_1
ClientSampleId :
VL0514ABL01

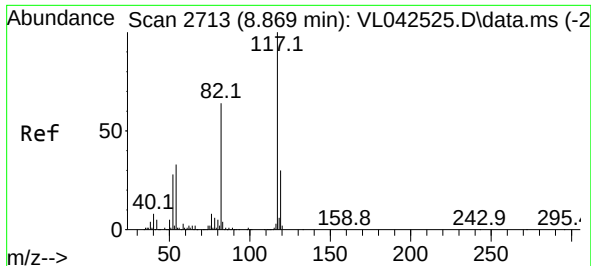
Tgt Ion: 49 Resp: 116915
Ion Ratio Lower Upper
49 100
128 50.8 24.9 74.6
130 65.0 32.5 97.5



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.019 min
Lab File: VL042537.D
Acq: 14 May 2025 11:09

Tgt Ion: 114 Resp: 336117
Ion Ratio Lower Upper
114 100
63 25.2 20.4 30.6
88 18.1 14.5 21.7

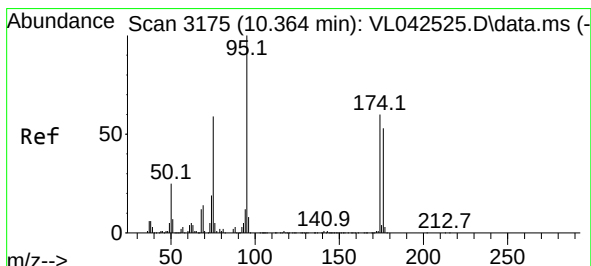
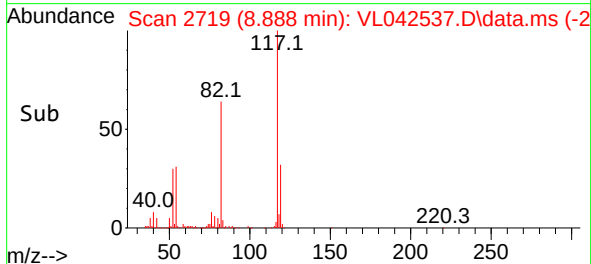
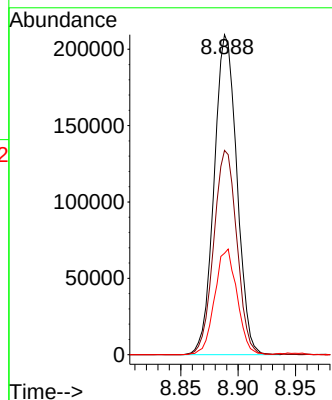
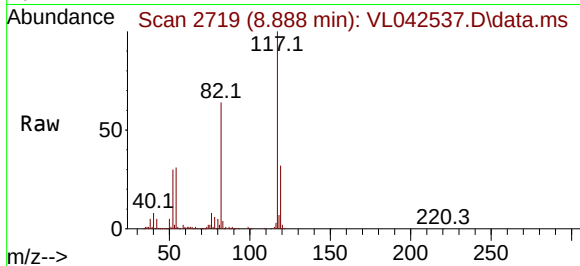




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 21
Delta R.T. 0.019 min
Lab File: VL042537.D
Acq: 14 May 2025 11:09

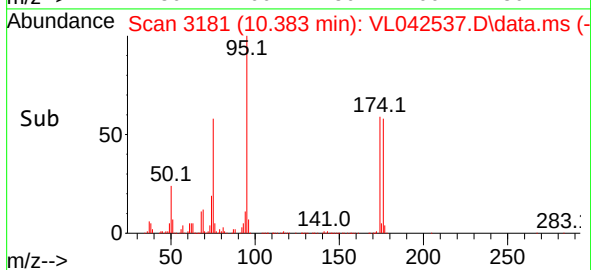
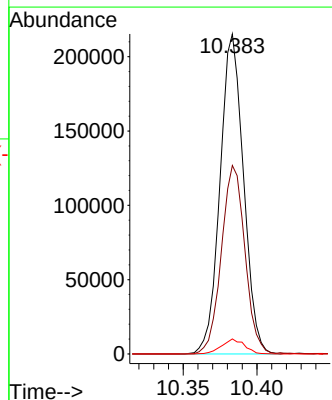
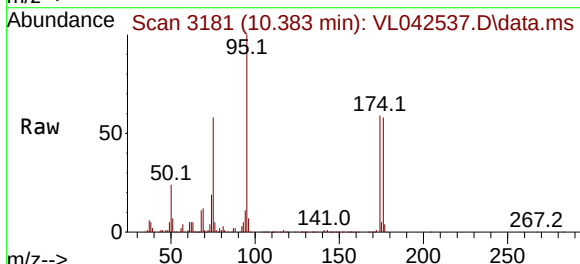
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABL01

Tgt Ion:117 Resp: 289273
Ion Ratio Lower Upper
117 100
82 65.1 55.0 82.4
119 32.5 25.8 38.6



#68
1-Bromo-4-Fluorobenzene
Concen: 9.459 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. 0.019 min
Lab File: VL042537.D
Acq: 14 May 2025 11:09

Tgt Ion: 95 Resp: 238085
Ion Ratio Lower Upper
95 100
174 59.4 48.0 72.0
175 4.6 3.5 5.3



Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	12 Maplewood St, Malden MA	Date Received:	
Client Sample ID:	VL0514ABS01	SDG No.:	Q2011
Lab Sample ID:	VL0514ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042538.D	1		05/14/25 11:53	VL051425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	8.60	22.0		0.030	0.080	ug/m3
75-34-3	1,1-Dichloroethane	10.1	40.9		0.53	2.02	ug/m3
156-59-2	cis-1,2-Dichloroethene	9.60	38.1		0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	8.90	48.6		0.050	0.16	ug/m3
79-01-6	Trichloroethene	9.30	50.0		0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	9.00	61.0		0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	117000		2.79			
540-36-3	1,4-Difluorobenzene	343000		3.962			
3114-55-4	Chlorobenzene-d5	296000		8.885			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
 Data File : VL042538.D
 Acq On : 14 May 2025 11:53
 Operator : SY/MD
 Sample : VL0514ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0514ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/15/2025
 Supervised By : Mahesh Dadoda 05/15/2025

Quant Time: May 15 01:32:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

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

QLast Update : Tue May 13 02:07:03 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	116911	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.962	114	342869	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.885	117	296340	10.000	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 260716 10.111 ppbv 0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	177349	9.342	ppbv	98
3) Chlorodifluoromethane	1.476	51	171430	8.861	ppbv	100
4) Chloromethane	1.534	50	69630	8.987	ppbv	100
5) Vinyl Chloride	1.580	62	68261	8.610	ppbv	94
6) Bromomethane	1.667	94	37101	9.854	ppbv	94
7) Chloroethane	1.706	64	28035	8.956	ppbv	97
8) Dichlorotetrafluoroethane	1.554	85	146902	8.993	ppbv	100
9) Propene	1.486	41	58217	13.876	ppbv #	1
10) Heptane	4.981	43	171029	10.667	ppbv	97
11) Trichlorofluoromethane	1.877	101	183595	10.054	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	148178	10.103	ppbv	100
13) Ethanol	1.722	45	8751	7.754	ppbv	98
14) Bromoethene	1.784	108	51275	9.589	ppbv	99
15) Acetone	1.835	43	152999	8.119	ppbv	99
16) 1,3-Butadiene	1.609	39	76378	9.092	ppbv	97
17) tert-Butyl alcohol	2.039	59	172075	9.968	ppbv	99
18) 1,1-Dichloroethene	2.036	96	63992	9.955	ppbv	99
19) Isopropyl Alcohol	1.887	45	97672	9.624	ppbv	100
20) Methylene Chloride	2.062	84	56851	8.739	ppbv	96
21) Allyl Chloride	2.098	41	120871	9.772	ppbv	96
22) trans-1,2-Dichloroethene	2.340	96	72704	9.669	ppbv	95
23) Vinyl Acetate	2.463	43	184141	9.415	ppbv #	98
24) 1,1-Dichloroethane	2.408	63	146965	10.102	ppbv	98
25) Ethyl Acetate	2.836	43	312927	9.540	ppbv	100
26) Hexane	2.829	57	138195	10.262	ppbv	97
27) Carbon Disulfide	2.153	76	181278	10.428	ppbv	95
28) Methyl tert-Butyl Ether	2.441	73	84826	11.338	ppbv	97
29) Chloroform	2.852	83	247796	8.872	ppbv	99
30) Cyclohexane	3.858	84	119963	10.850	ppbv	97
31) cis-1,2-Dichloroethene	2.722	61	145273	9.553	ppbv	95
32) 1,1,1-Trichloroethane	3.370	97	255956	8.881	ppbv	99
34) 2-Butanone	2.557	43	197074	8.720	ppbv	98
35) Carbon Tetrachloride	3.768	117	277335	8.997	ppbv	98
36) Benzene	3.661	78	293547	9.661	ppbv	99
37) 1,2-Dichloroethane	3.221	62	193600	8.932	ppbv	100
38) Trichloroethene	4.551	130	122351	9.261	ppbv	97
39) 1,2-Dichloropropane	4.315	63	103541	9.148	ppbv	88
40) 1,4-Dioxane	4.583	88	47286	10.292	ppbv #	99
41) Tetrahydrofuran	3.056	42	101765	10.403	ppbv	98
42) Bromodichloromethane	4.493	83	263548	9.111	ppbv	98
43) Methyl Methacrylate	4.884	69	106126	10.429	ppbv	99
44) 2,2,4-Trimethylpentane	4.645	57	476041	9.887	ppbv	99
45) t-1,3-Dichloropropene	6.418	75	132911	10.223	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051425\
 Data File : VL042538.D
 Acq On : 14 May 2025 11:53
 Operator : SY/MD
 Sample : VL0514ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0514ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025

Quant Time: May 15 01:32:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

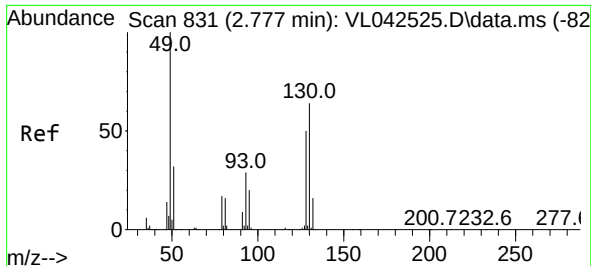
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Tue May 13 02:07:03 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	160141	10.239	ppbv	92
47) 1,1,2-Trichloroethane	6.587	97	119517	8.967	ppbv	97
48) Dibromochloromethane	7.389	129	215320	9.676	ppbv	98
49) Bromoform	9.487	173	177871	9.740	ppbv	98
50) 4-Methyl-2-Pentanone	5.755	43	268277	10.107	ppbv	99
51) 2-Hexanone	7.438	43	221041	11.195	ppbv #	99
52) Tetrachloroethene	8.228	164	104385	8.979	ppbv	91
53) Toluene	6.940	91	320104	10.735	ppbv	100
54) 1,2-Dibromoethane	7.658	107	181316	9.315	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.930	131	166531	9.064	ppbv	98
57) Chlorobenzene	8.924	112	275176	9.248	ppbv	99
58) Ethyl Benzene	9.357	91	466684	11.554	ppbv	94
59) m/p-Xylene	9.555	91	794877m	22.159	ppbv	
60) o-Xylene	9.969	91	395533	11.290	ppbv	100
61) Styrene	9.875	104	152625	11.763	ppbv	98
62) Isopropylbenzene	10.542	105	572300	10.847	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	248344	8.734	ppbv	99
64) n-propylbenzene	10.992	120	149437	11.156	ppbv	100
65) tert-Butylbenzene	11.532	119	527031	10.878	ppbv	100
66) Benzyl Chloride	11.617	91	67242	10.445	ppbv	99
67) sec-Butylbenzene	11.772	105	733606	10.561	ppbv	100
69) p-Isopropyltoluene	11.927	119	635567	11.129	ppbv	99
70) n-Butylbenzene	12.283	91	632577	11.210	ppbv	100
71) 2-Chlorotoluene	10.904	91	439880	11.010	ppbv	99
72) 4-Ethyltoluene	11.128	105	496655	11.428	ppbv	100
73) 1,3,5-Trimethylbenzene	11.205	105	415787	10.984	ppbv	97
74) 1,2,4-Trimethylbenzene	11.539	105	471038	10.114	ppbv	91
75) 1,3-Dichlorobenzene	11.610	146	282203	9.675	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	274722	9.900	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	269587	8.948	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	219747	8.506	ppbv	99
79) Naphthalene	13.513	128	437553	13.557	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	278888	14.972	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	219152	11.164	ppbv	99

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



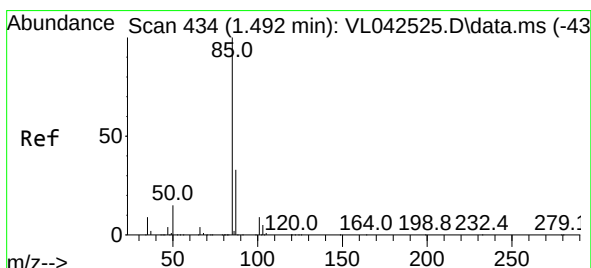
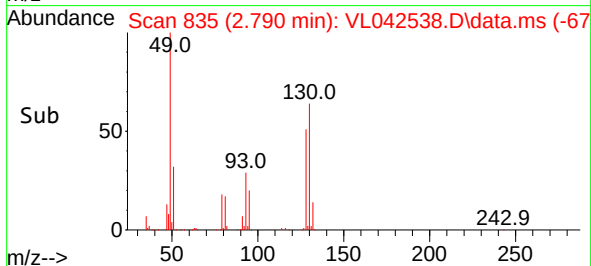
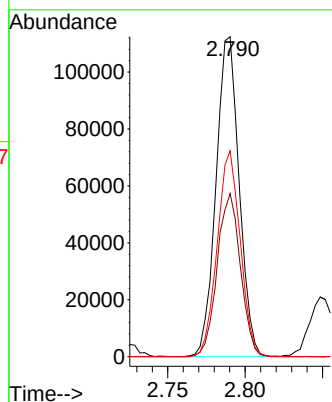
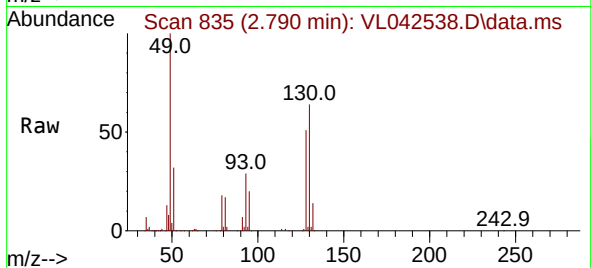
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 831
Delta R.T. 0.013 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

Tgt Ion: 49 Resp: 11691
Ion Ratio Lower Upper
49 100
128 51.1 24.9 74.6
130 63.8 32.5 97.5

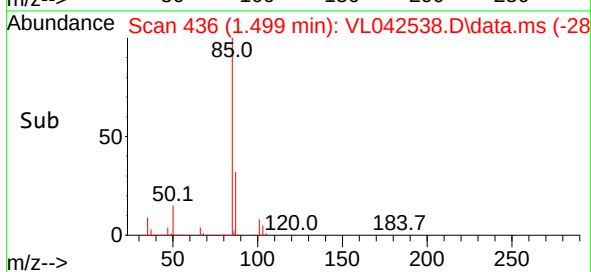
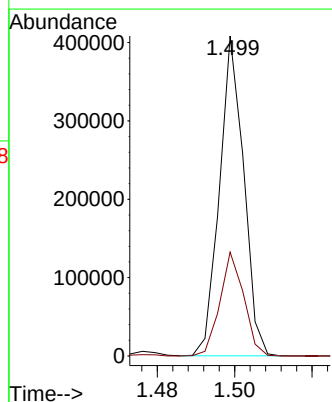
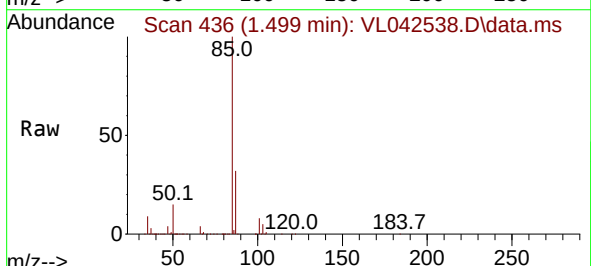
Manual Integrations
APPROVED

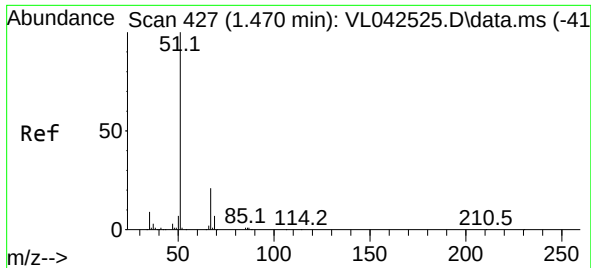
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#2
Dichlorodifluoromethane
Concen: 9.342 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

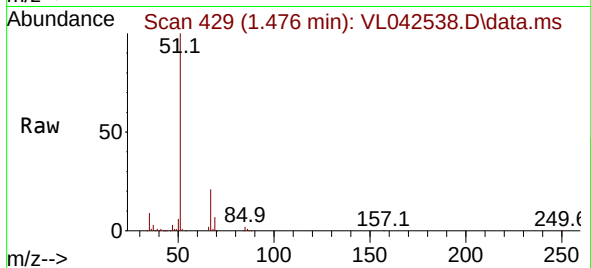
Tgt Ion: 85 Resp: 177349
Ion Ratio Lower Upper
85 100
87 32.4 26.8 40.2





#3
Chlorodifluoromethane
Concen: 8.861 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

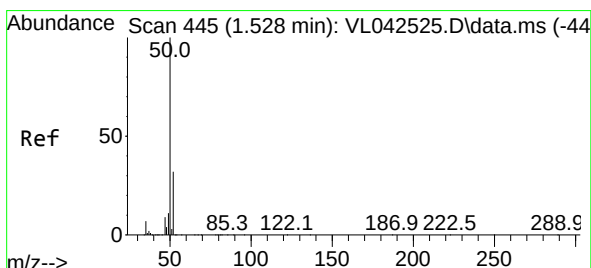
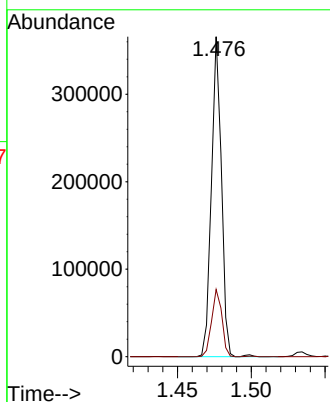
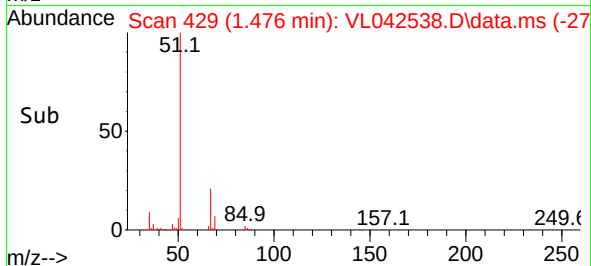
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01



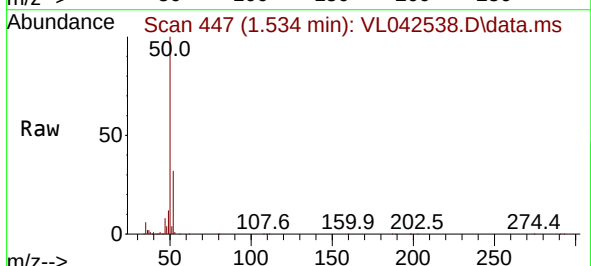
Tgt Ion: 51 Resp: 171430
Ion Ratio Lower Upper
51 100
67 21.7 17.4 26.0

Manual Integrations
APPROVED

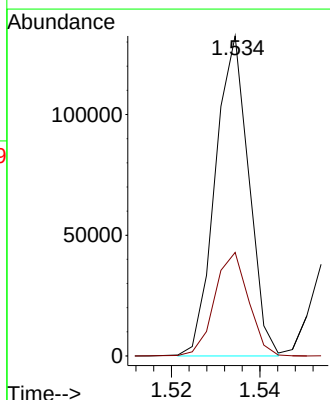
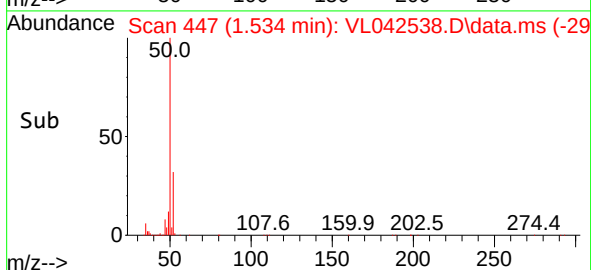
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

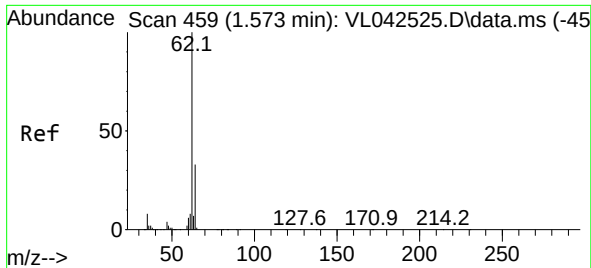


#4
Chloromethane
Concen: 8.987 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53



Tgt Ion: 50 Resp: 69630
Ion Ratio Lower Upper
50 100
52 32.3 25.9 38.9





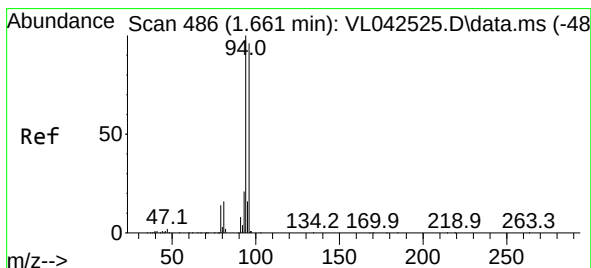
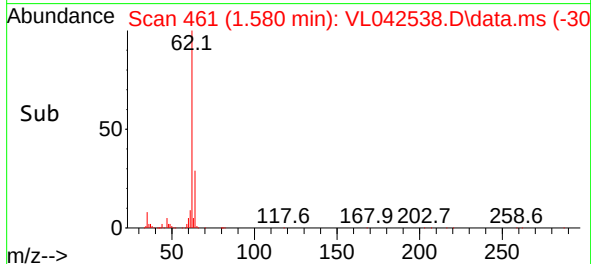
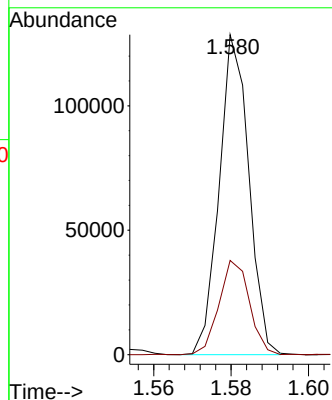
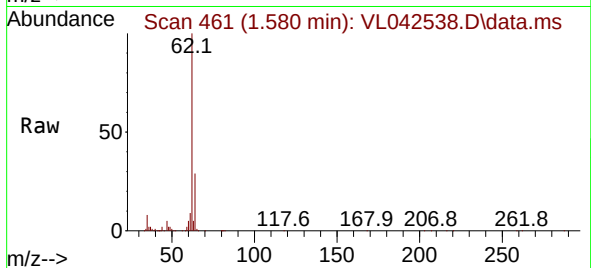
#5
 Vinyl Chloride
 Concen: 8.610 ppbv
 RT: 1.580 min Scan# 459
 Delta R.T. 0.006 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53

Instrument :
 MSVOA_1
 ClientSampleId :
 VL0514ABS01

Tgt Ion: 62 Resp: 6826
 Ion Ratio Lower Upper
 62 100
 64 29.4 26.5 39.7

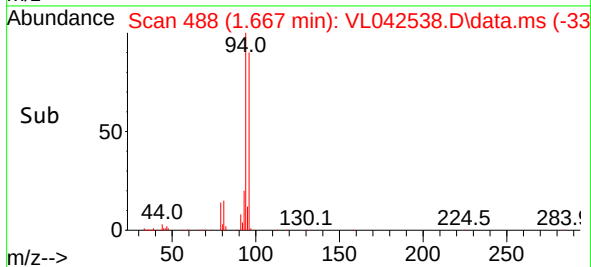
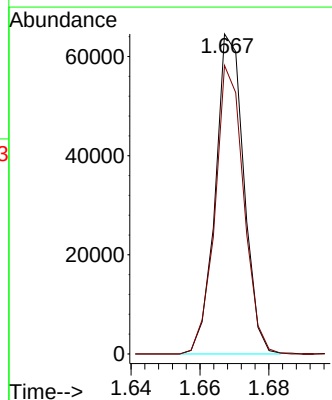
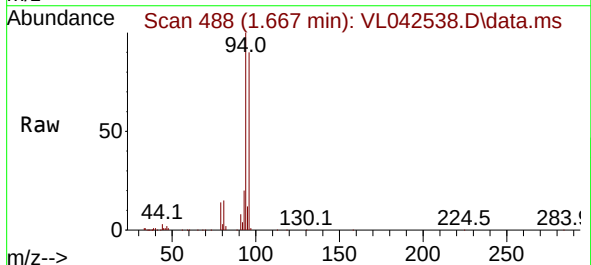
Manual Integrations
 APPROVED

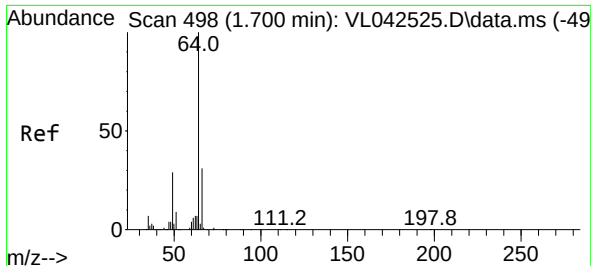
Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025



#6
 Bromomethane
 Concen: 9.854 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.006 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53

Tgt Ion: 94 Resp: 37101
 Ion Ratio Lower Upper
 94 100
 96 90.2 76.9 115.3





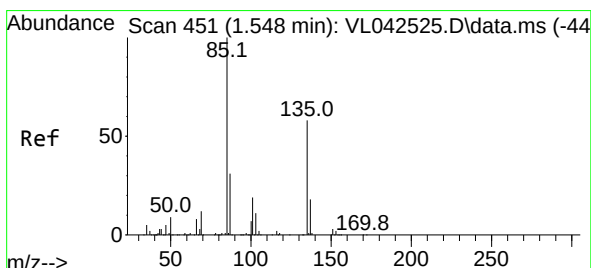
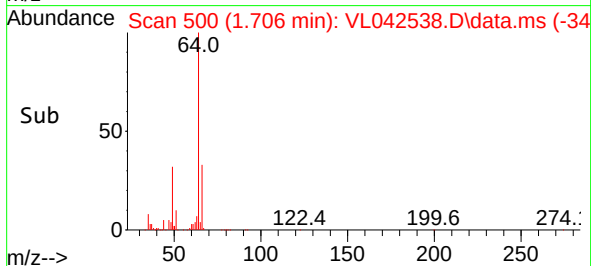
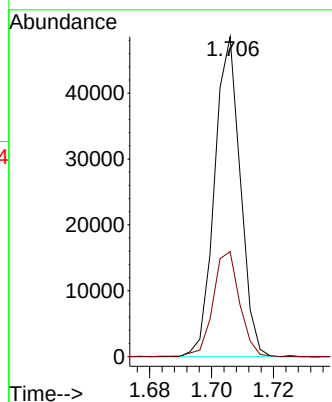
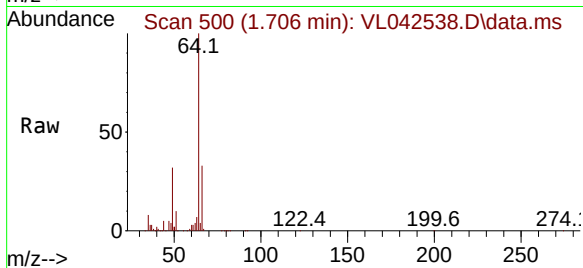
#7
Chloroethane
Concen: 8.956 ppbv
RT: 1.706 min Scan# 501
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

Tgt Ion: 64 Resp: 28035
Ion Ratio Lower Upper
64 100
66 32.9 25.1 37.7

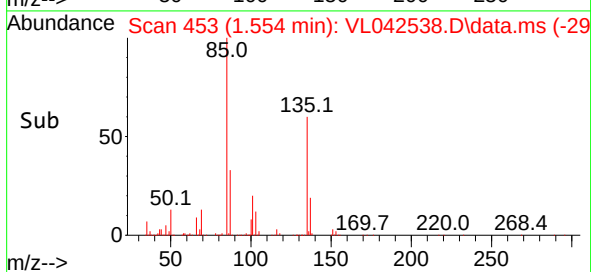
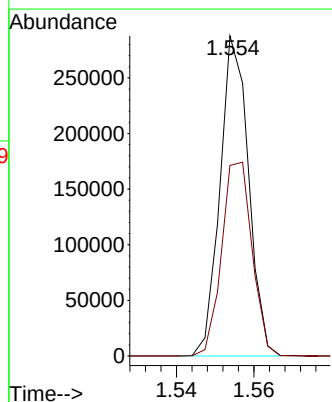
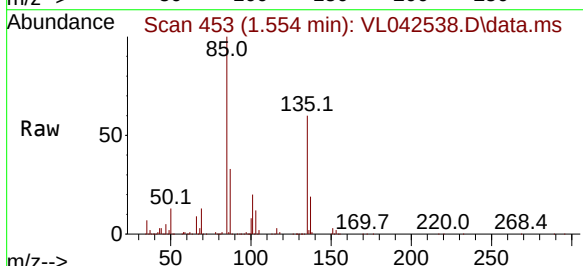
Manual Integrations
APPROVED

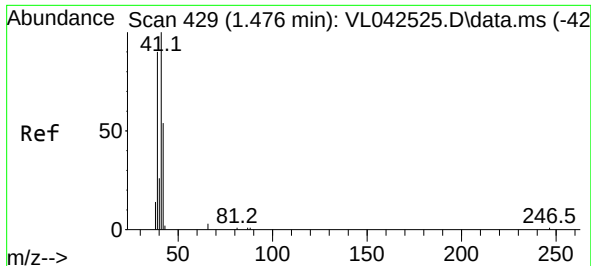
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#8
Dichlorotetrafluoroethane
Concen: 8.993 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion: 85 Resp: 146902
Ion Ratio Lower Upper
85 100
135 64.8 51.8 77.8





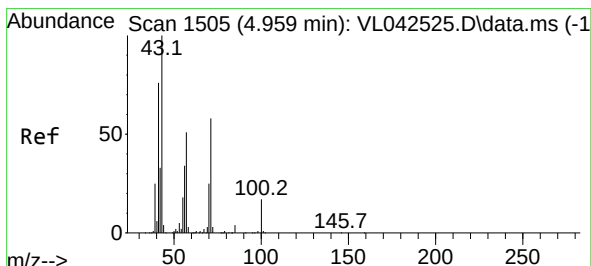
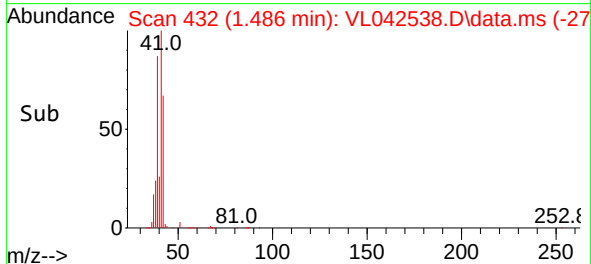
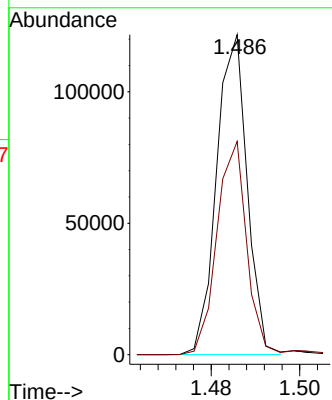
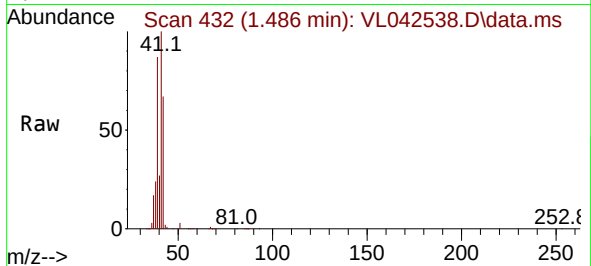
#9
 Propene
 Concen: 13.876 ppbv
 RT: 1.486 min Scan# 41
 Delta R.T. 0.010 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0514ABS01

Tgt Ion: 41 Resp: 5821
 Ion Ratio Lower Upper
 41 100
 42 66.8 4.1 6.1

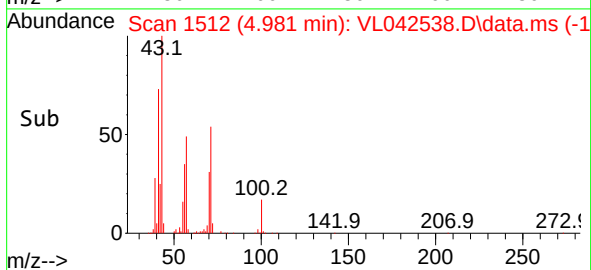
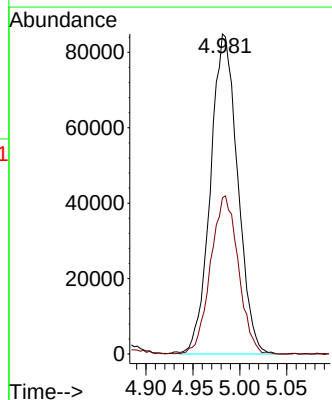
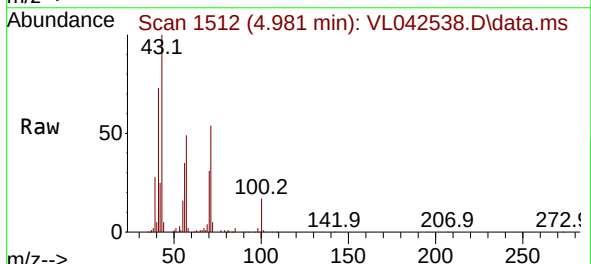
Manual Integrations
 APPROVED

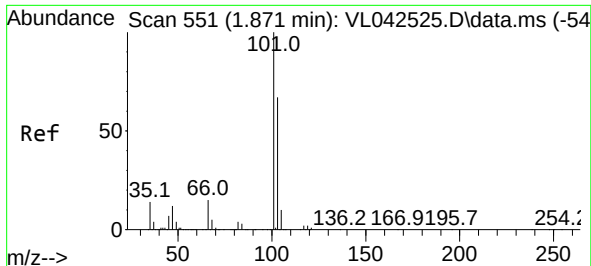
Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025



#10
 Heptane
 Concen: 10.667 ppbv
 RT: 4.981 min Scan# 1512
 Delta R.T. 0.022 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53

Tgt Ion: 43 Resp: 171029
 Ion Ratio Lower Upper
 43 100
 57 50.3 42.1 63.1





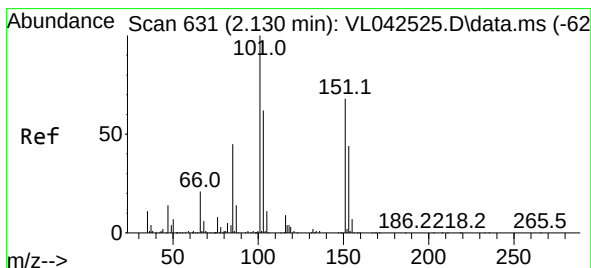
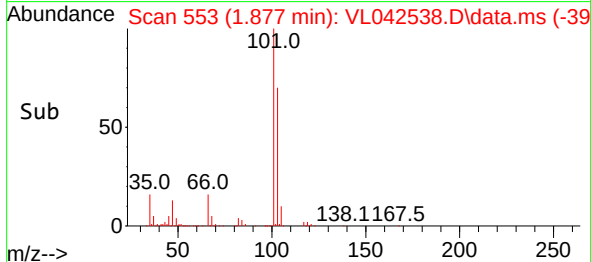
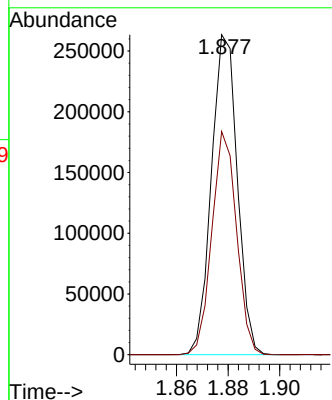
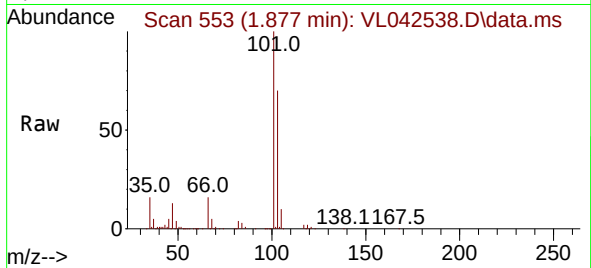
#11
Trichlorofluoromethane
Concen: 10.054 ppbv
RT: 1.877 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

Tgt Ion:101 Resp: 18359
Ion Ratio Lower Upper
101 100
103 69.8 53.8 80.6

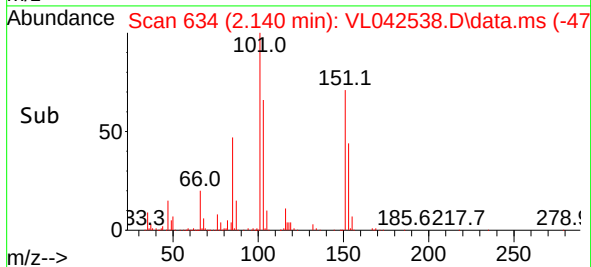
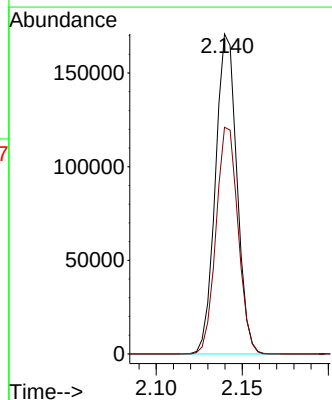
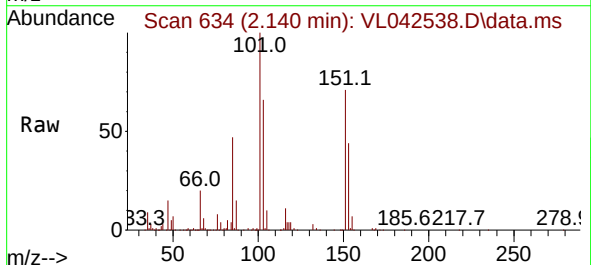
Manual Integrations
APPROVED

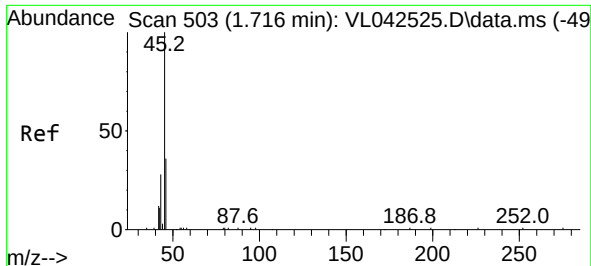
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.103 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion:101 Resp: 148178
Ion Ratio Lower Upper
101 100
151 72.6 57.8 86.8





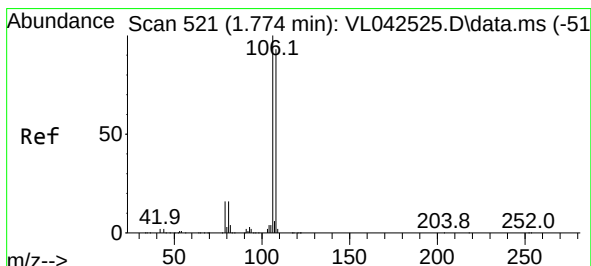
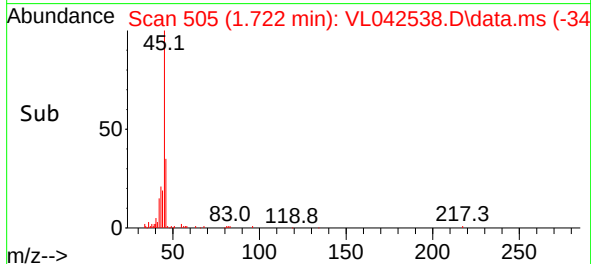
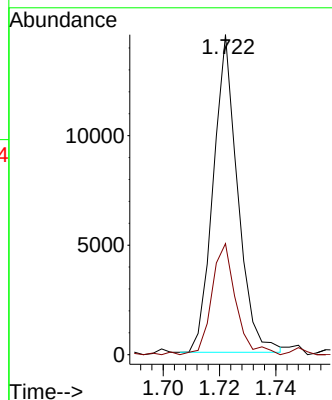
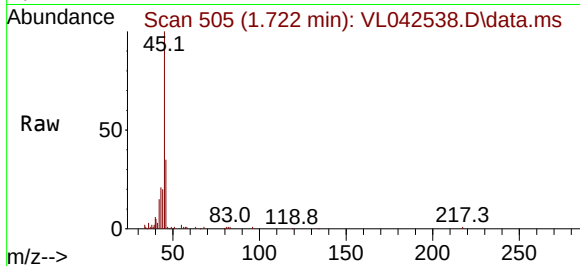
#13
Ethanol
Concen: 7.754 ppbv
RT: 1.722 min Scan# 503
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

Tgt Ion: 45 Resp: 875
Ion Ratio Lower Upper
45 100
46 36.1 14.8 59.4

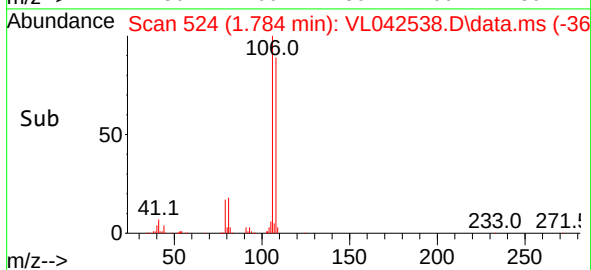
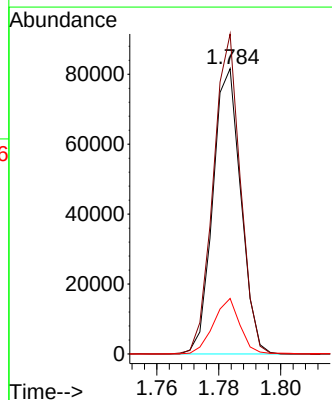
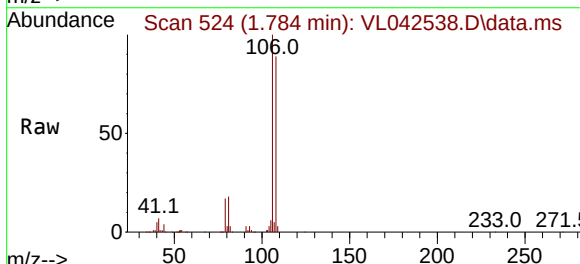
Manual Integrations
APPROVED

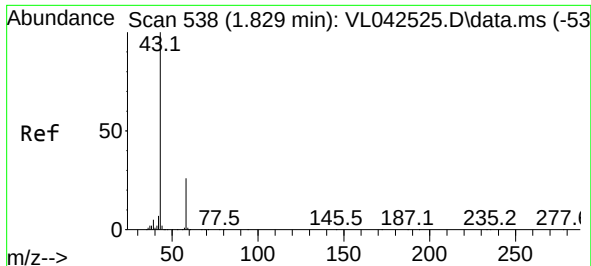
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#14
Bromoethene
Concen: 9.589 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion:108 Resp: 51275
Ion Ratio Lower Upper
108 100
106 108.1 87.4 131.2
79 19.0 15.1 22.7





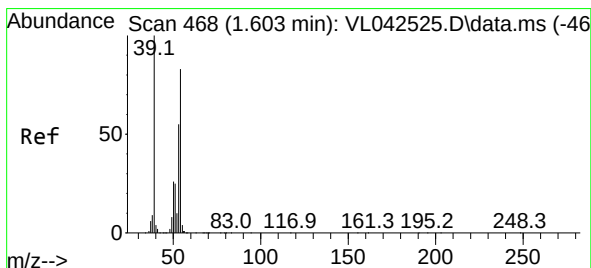
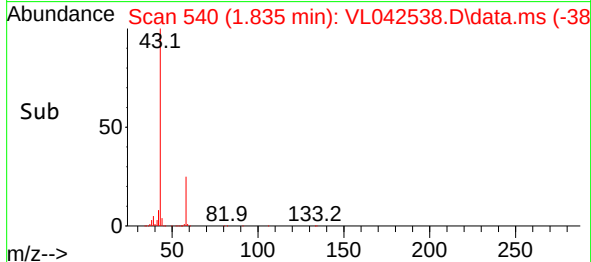
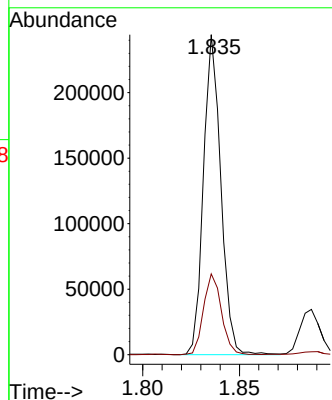
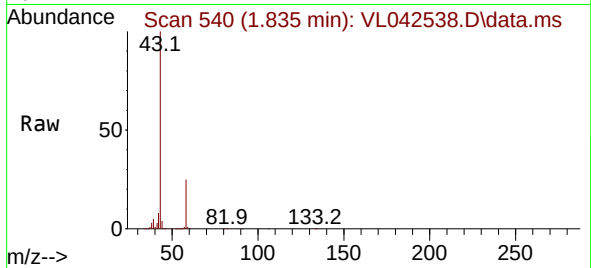
#15
Acetone
Concen: 8.119 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

Tgt Ion: 43 Resp: 152999
Ion Ratio Lower Upper
43 100
58 26.2 21.3 31.9

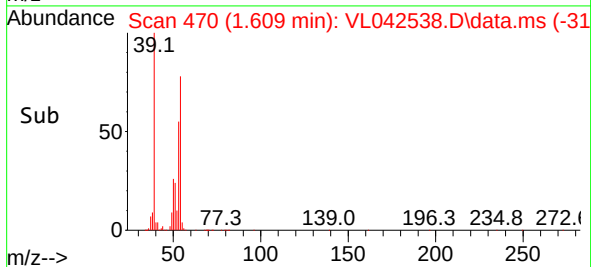
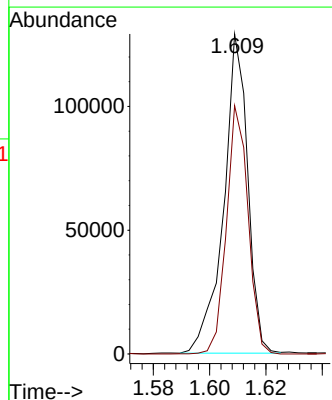
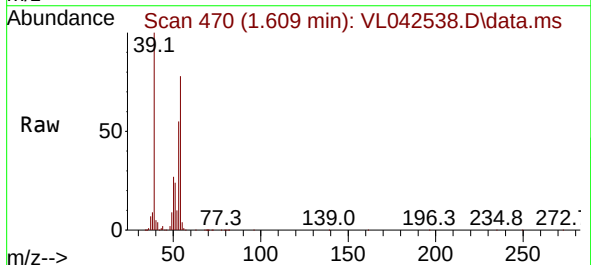
Manual Integrations
APPROVED

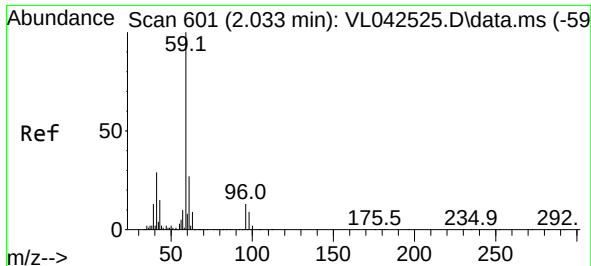
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#16
1,3-Butadiene
Concen: 9.092 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion: 39 Resp: 76378
Ion Ratio Lower Upper
39 100
54 70.0 57.8 86.6





#17

tert-Butyl alcohol

Concen: 9.968 ppbv

RT: 2.039 min Scan# 601

Delta R.T. 0.006 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Instrument :

MSVOA_L

ClientSampleId :

VL0514ABS01

Tgt Ion: 59 Resp: 172075

Ion Ratio Lower Upper

59 100

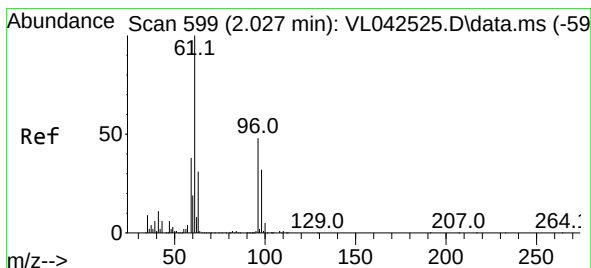
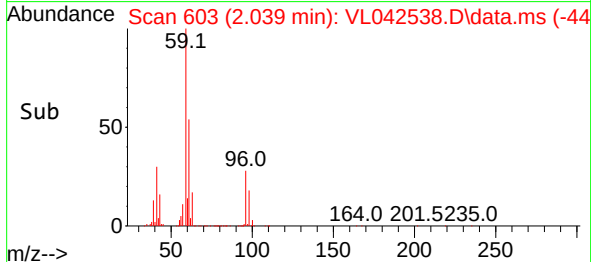
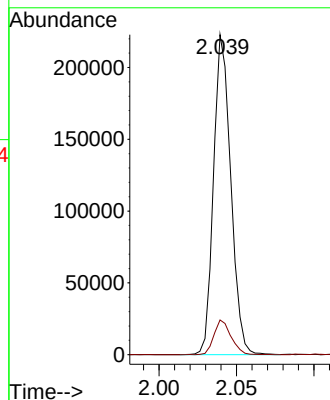
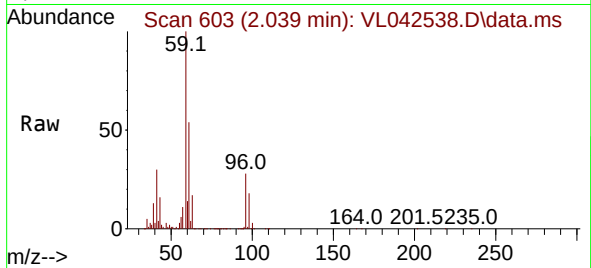
57 10.8 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#18

1,1-Dichloroethene

Concen: 9.955 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.010 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

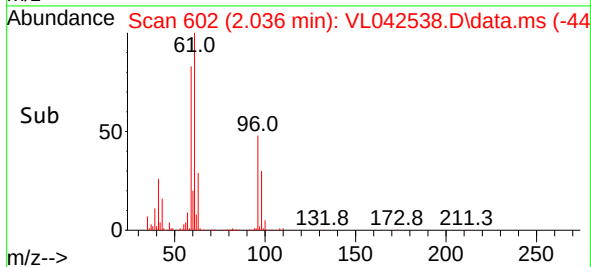
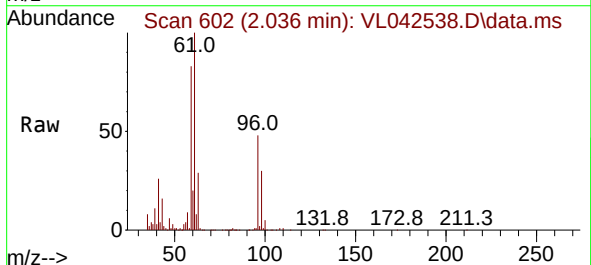
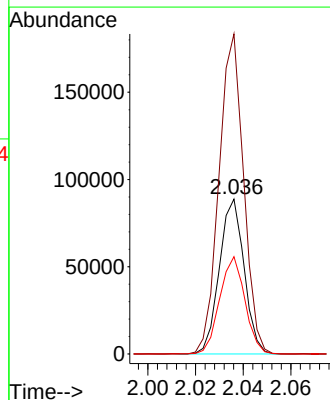
Tgt Ion: 96 Resp: 63992

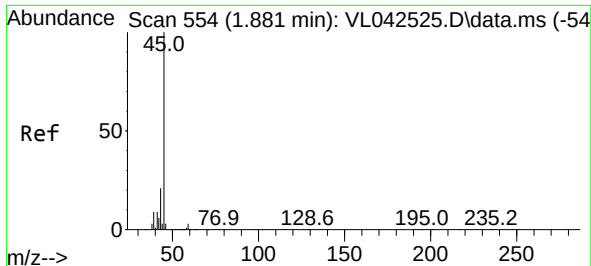
Ion Ratio Lower Upper

96 100

61 206.6 165.0 247.4

98 62.8 52.6 79.0





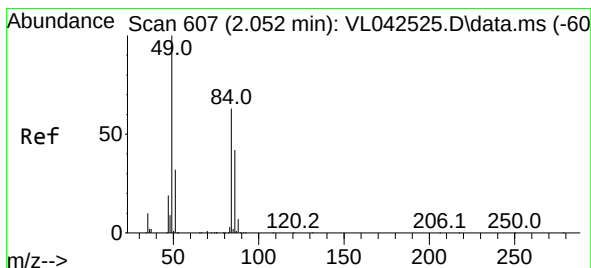
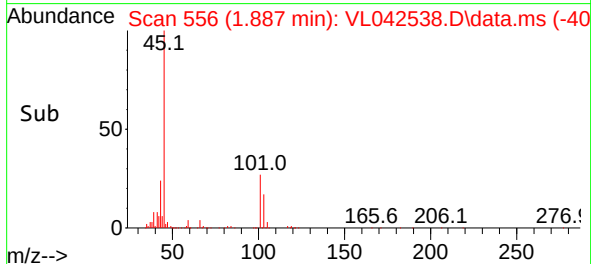
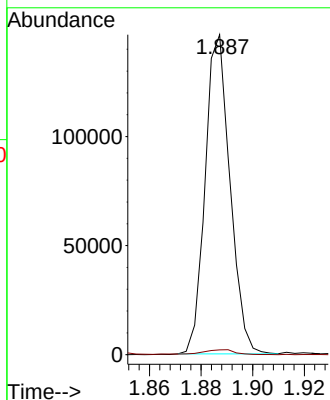
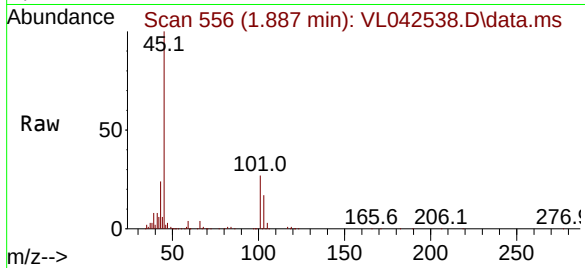
#19
Isopropyl Alcohol
Concen: 9.624 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

Tgt Ion: 45 Resp: 97672
Ion Ratio Lower Upper
45 100
58 2.0 1.5 2.3

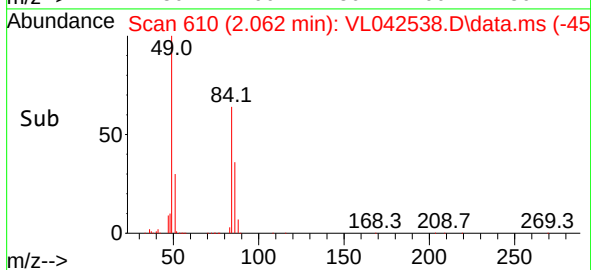
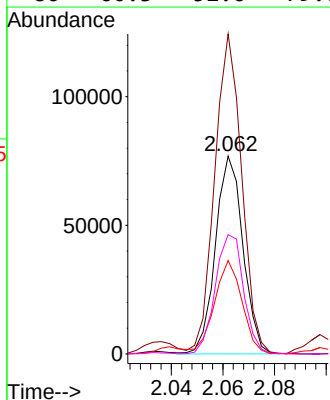
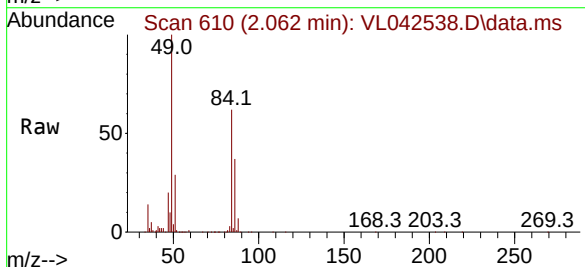
Manual Integrations
APPROVED

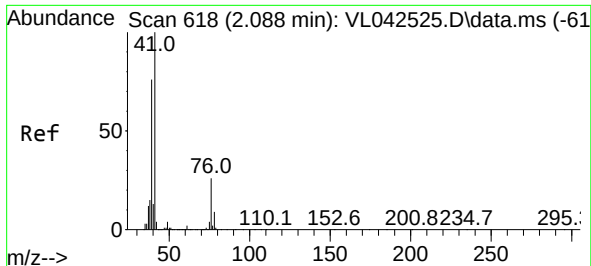
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#20
Methylene Chloride
Concen: 8.739 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion: 84 Resp: 56851
Ion Ratio Lower Upper
84 100
49 161.5 128.2 192.4
51 46.9 41.7 62.5
86 60.3 52.6 79.0





#21

Allyl Chloride

Concen: 9.772 ppbv

RT: 2.098 min Scan# 61

Delta R.T. 0.010 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Instrument :

MSVOA_L

ClientSampleId :

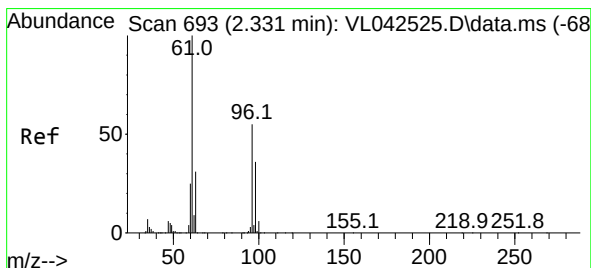
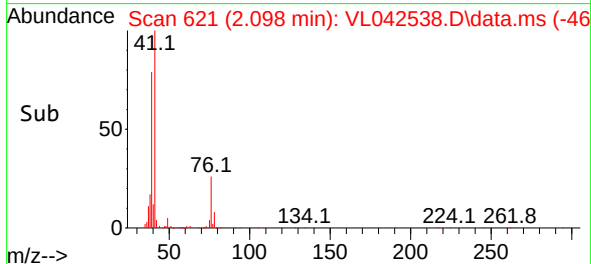
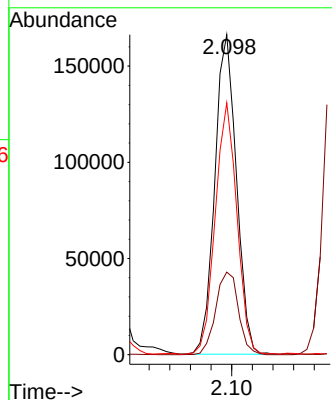
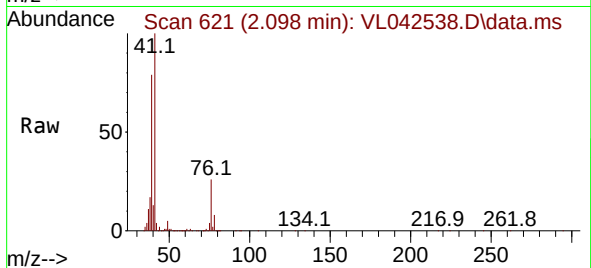
VL0514ABS01

Tgt Ion: 41	Resp: 12087
Ion Ratio	Lower Upper
41	100
76	27.1 22.0 33.0
39	78.9 59.5 89.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#22

trans-1,2-Dichloroethene

Concen: 9.669 ppbv

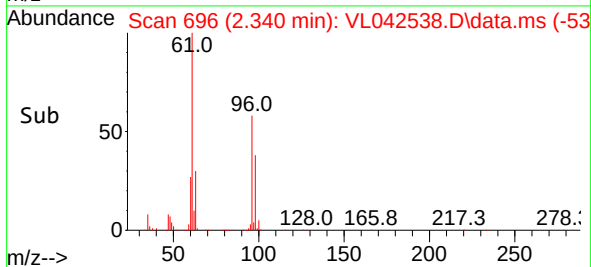
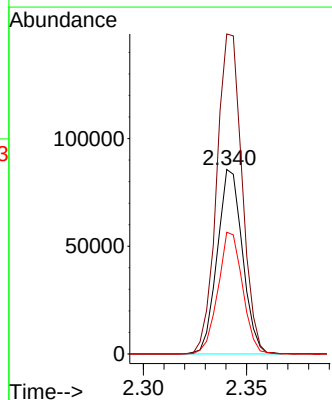
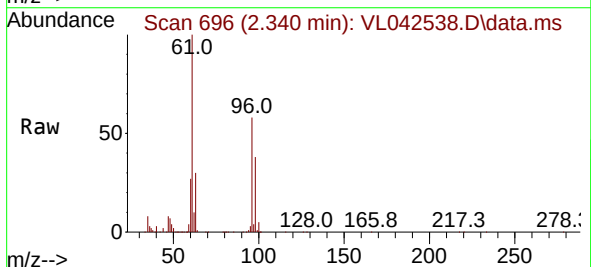
RT: 2.340 min Scan# 696

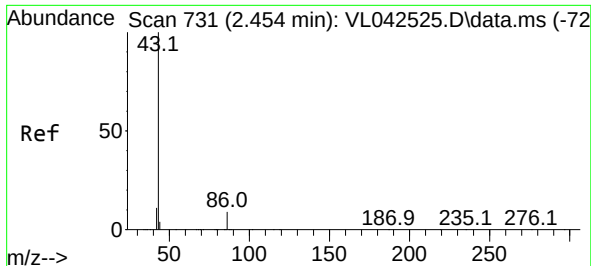
Delta R.T. 0.010 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Tgt Ion: 96	Resp: 72704
Ion Ratio	Lower Upper
96	100
61	173.4 145.9 218.9
98	66.0 52.2 78.4





#23
 Vinyl Acetate
 Concen: 9.415 ppbv
 RT: 2.463 min Scan# 714
 Delta R.T. 0.010 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53

Instrument :

MSVOA_L

ClientSampleId :

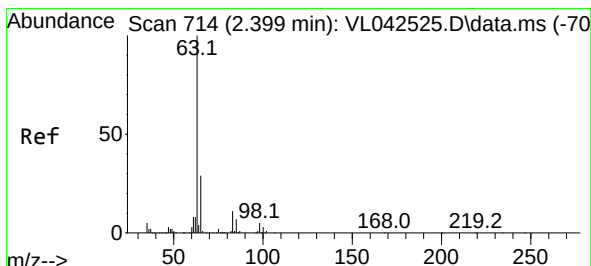
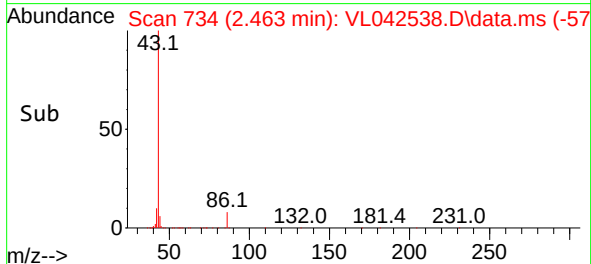
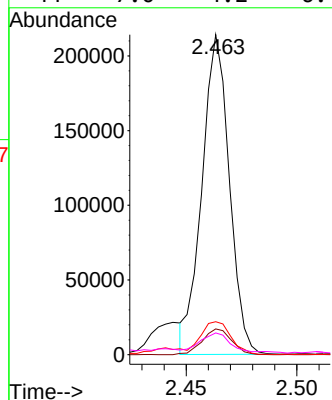
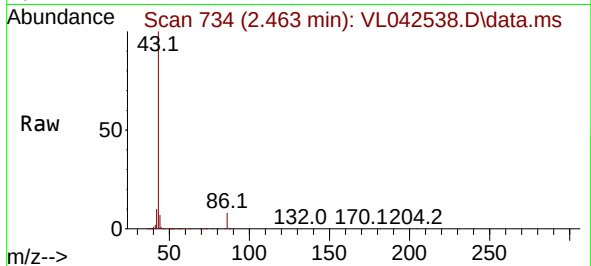
VL0514ABS01

Tgt Ion: 43 Resp: 18414
 Ion Ratio Lower Upper
 43 100
 86 8.0 6.8 10.2
 42 10.2 8.8 13.2
 44 7.0 4.2 6.4#

Manual Integrations

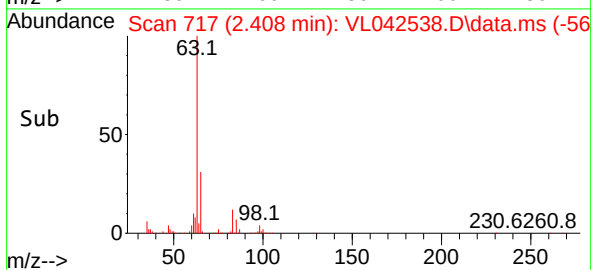
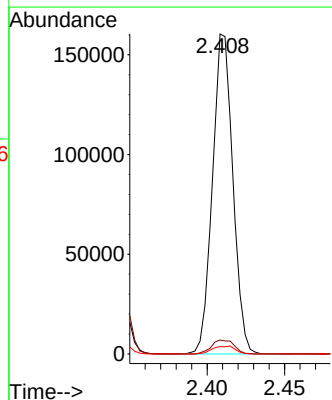
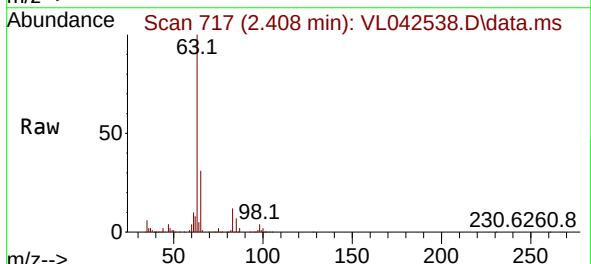
APPROVED

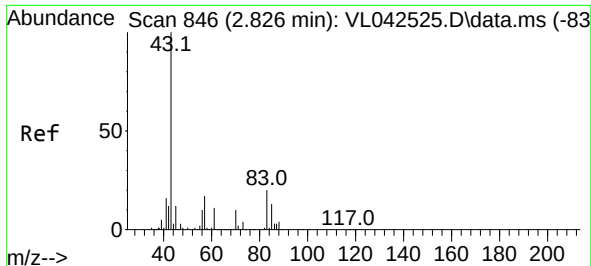
Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025



#24
 1,1-Dichloroethane
 Concen: 10.102 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. 0.010 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53

Tgt Ion: 63 Resp: 146965
 Ion Ratio Lower Upper
 63 100
 98 4.4 2.6 8.0
 100 2.3 1.4 4.2





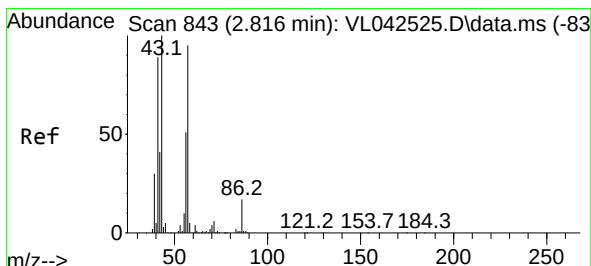
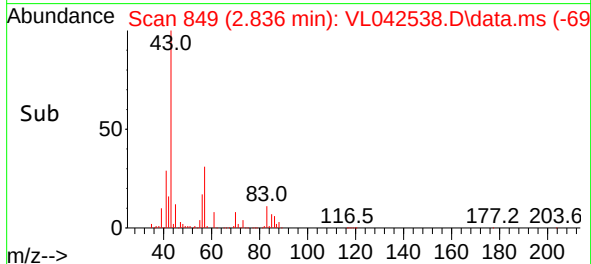
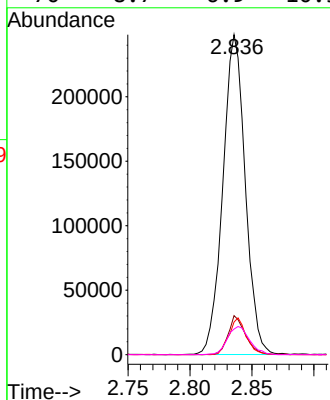
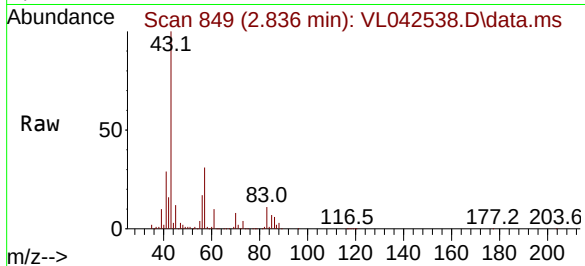
#25
Ethyl Acetate
Concen: 9.540 ppbv
RT: 2.836 min Scan# 846
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

Tgt Ion: 43 Resp: 31292
Ion Ratio Lower Upper
43 100
45 9.6 7.9 11.9
61 9.0 7.1 10.7
70 8.7 6.9 10.3

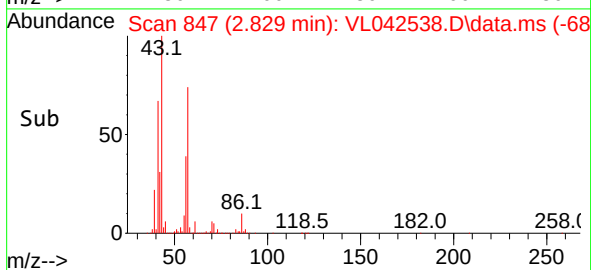
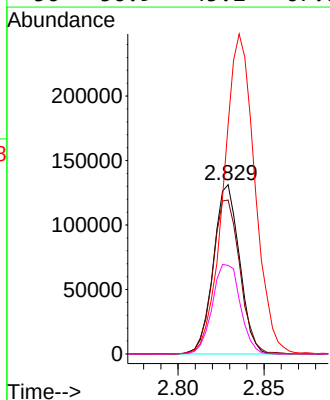
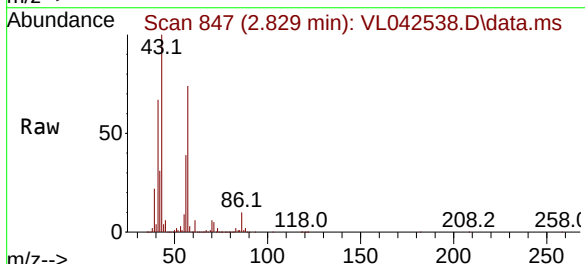
Manual Integrations
APPROVED

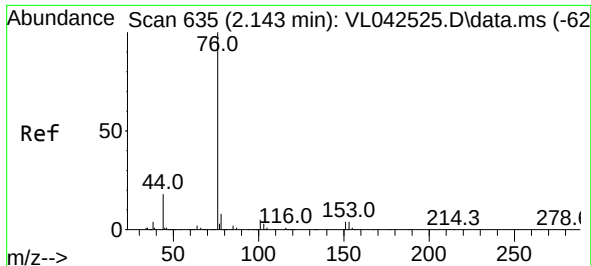
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#26
Hexane
Concen: 10.262 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.013 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

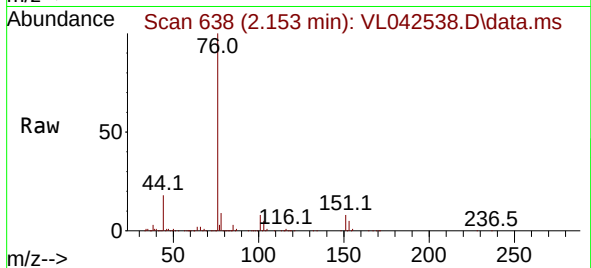
Tgt Ion: 57 Resp: 138195
Ion Ratio Lower Upper
57 100
41 95.6 76.1 114.1
43 227.4 188.9 283.3
56 56.9 45.2 67.8





#27
Carbon Disulfide
Concen: 10.428 ppbv
RT: 2.153 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

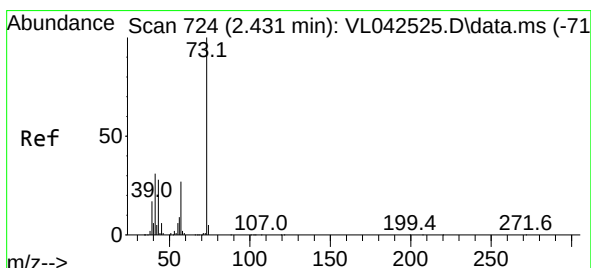
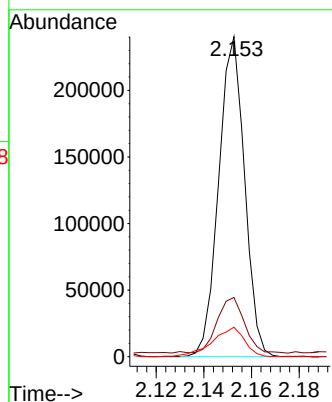
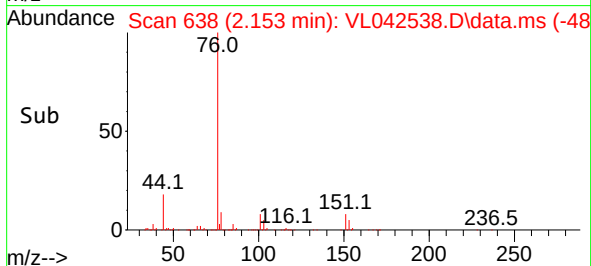
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01



Tgt Ion: 76 Resp: 181278
Ion Ratio Lower Upper
76 100
44 18.5 17.1 25.7
78 11.4 8.6 12.8

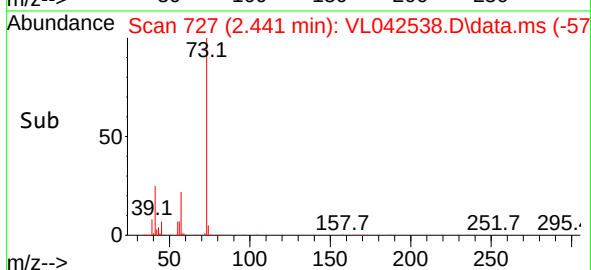
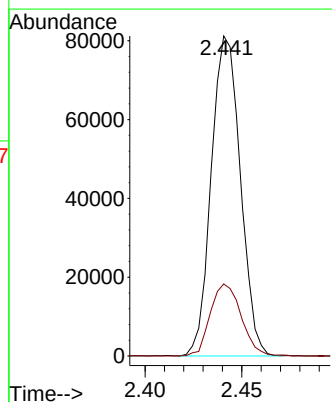
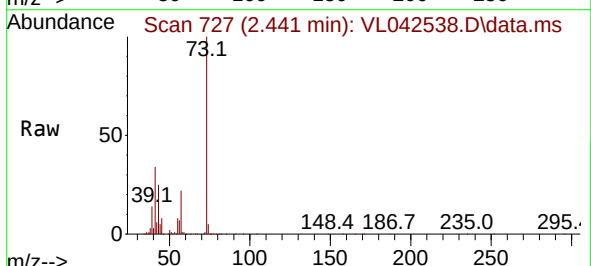
Manual Integrations
APPROVED

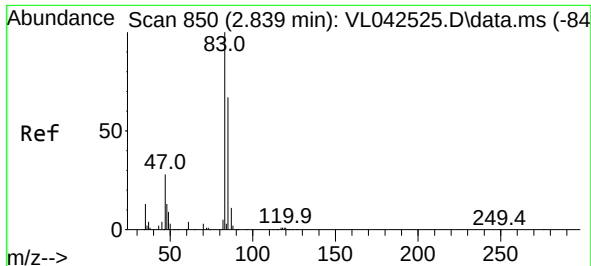
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#28
Methyl tert-Butyl Ether
Concen: 11.338 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion: 73 Resp: 84826
Ion Ratio Lower Upper
73 100
57 24.0 20.3 30.5





#29

Chloroform

Concen: 8.872 ppbv

RT: 2.852 min Scan# 850

Delta R.T. 0.013 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Instrument :

MSVOA_L

ClientSampleId :

VL0514ABS01

Tgt Ion: 83 Resp: 247790

Ion Ratio Lower Upper

83 100

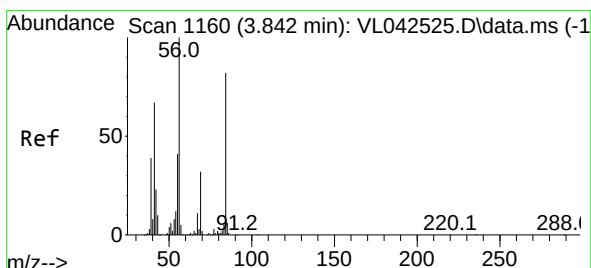
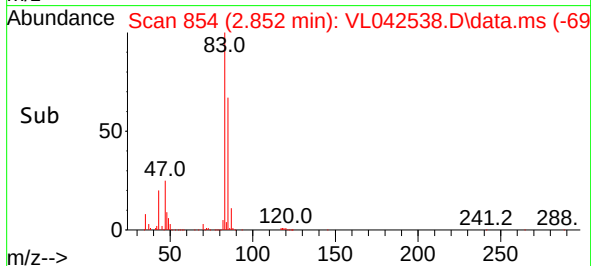
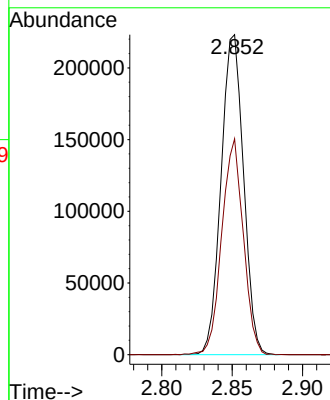
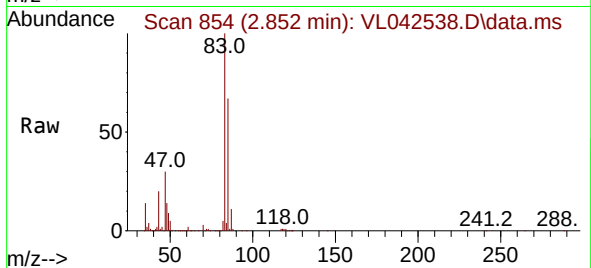
85 67.4 53.5 80.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#30

Cyclohexane

Concen: 10.850 ppbv

RT: 3.858 min Scan# 1165

Delta R.T. 0.016 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

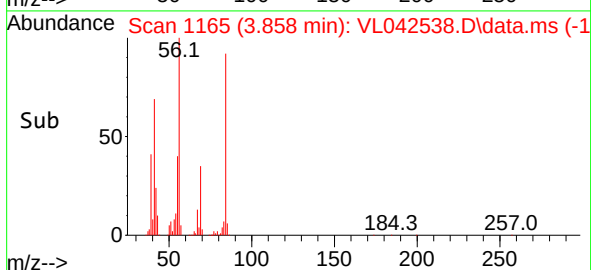
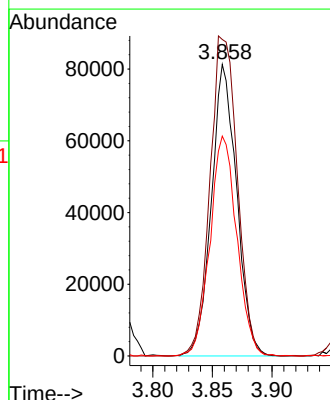
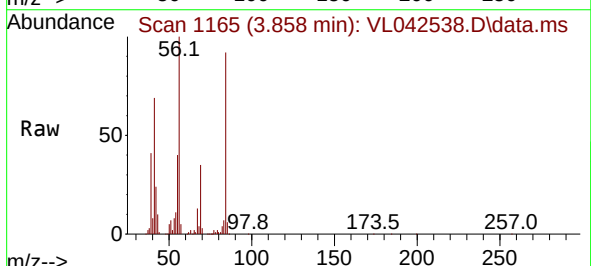
Tgt Ion: 84 Resp: 119963

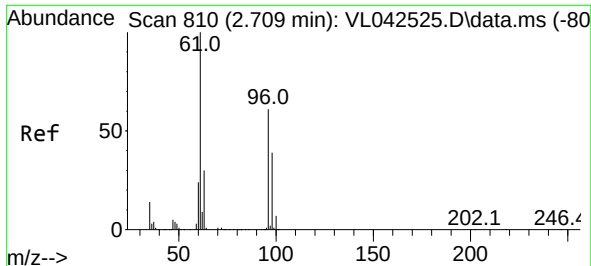
Ion Ratio Lower Upper

84 100

56 118.8 97.1 145.7

41 79.9 66.6 99.8





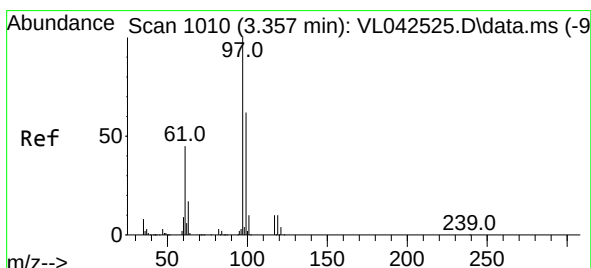
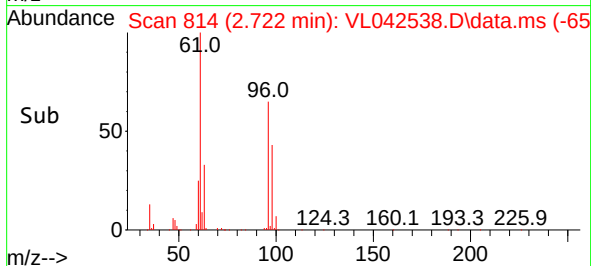
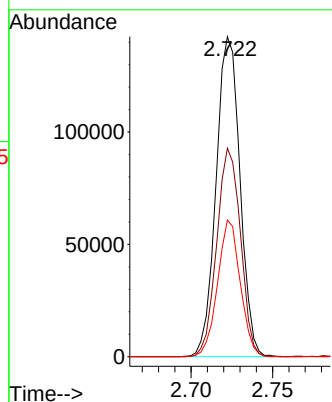
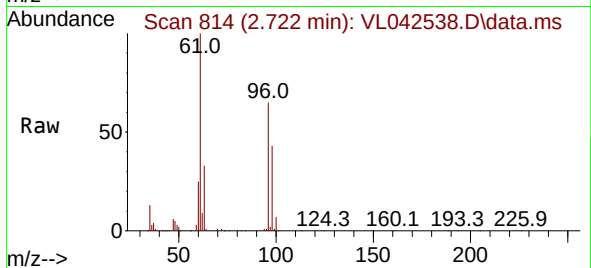
#31
 cis-1,2-Dichloroethene
 Concen: 9.553 ppbv
 RT: 2.722 min Scan# 810
 Delta R.T. 0.013 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0514ABS01

Tgt Ion: 61 Resp: 14527
 Ion Ratio Lower Upper
 61 100
 96 65.1 48.9 73.3
 98 42.7 31.4 47.2

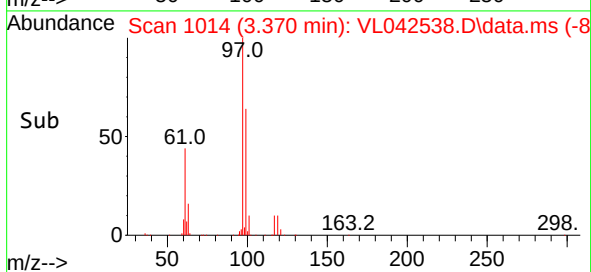
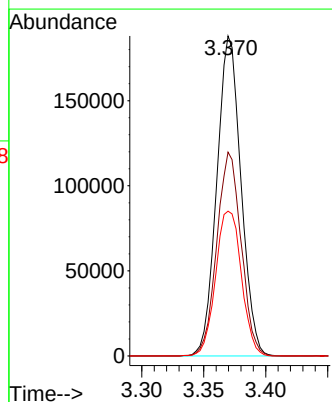
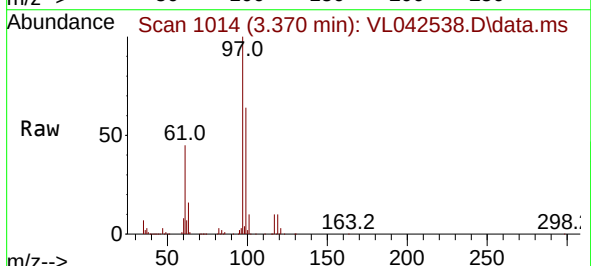
Manual Integrations
 APPROVED

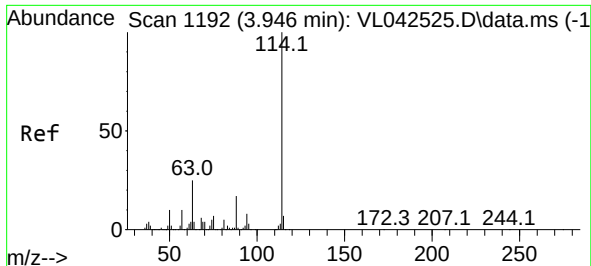
Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025



#32
 1,1,1-Trichloroethane
 Concen: 8.881 ppbv
 RT: 3.370 min Scan# 1014
 Delta R.T. 0.013 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53

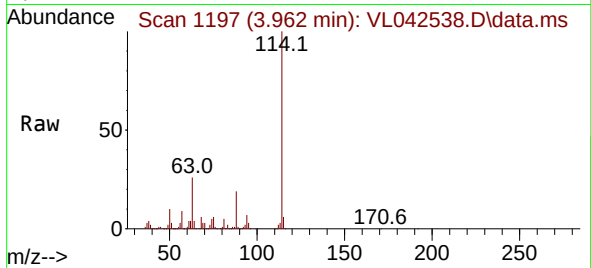
Tgt Ion: 97 Resp: 255956
 Ion Ratio Lower Upper
 97 100
 99 64.1 50.1 75.1
 61 48.3 38.2 57.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.016 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

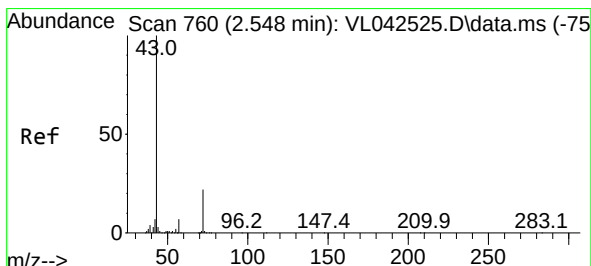
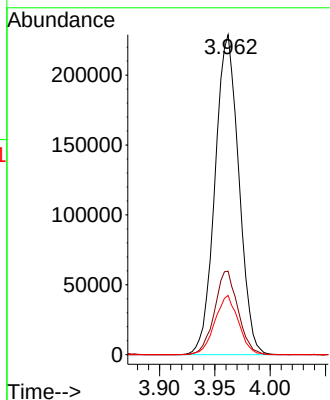
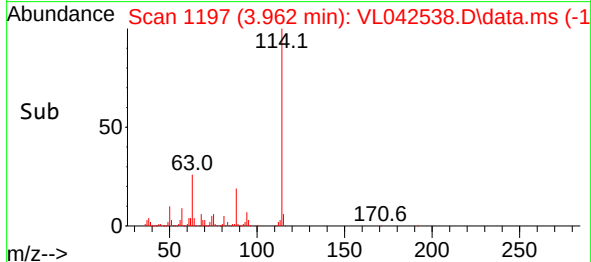
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01



Tgt Ion:114 Resp: 342869
Ion Ratio Lower Upper
114 100
63 25.8 20.4 30.6
88 18.4 14.5 21.7

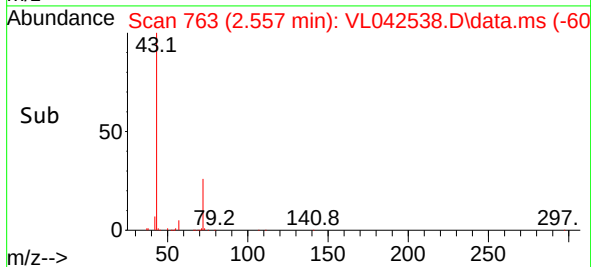
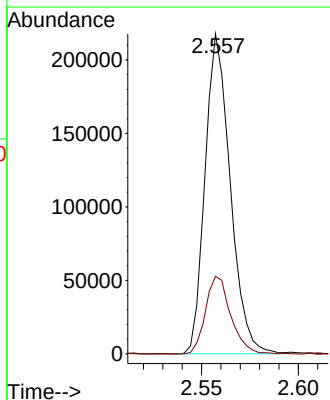
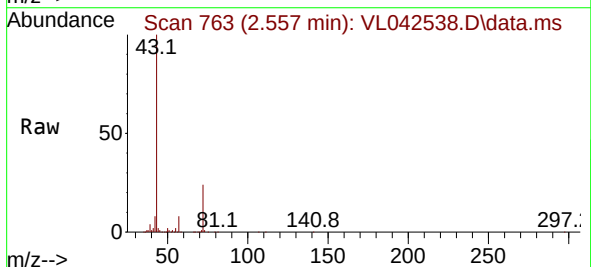
Manual Integrations
APPROVED

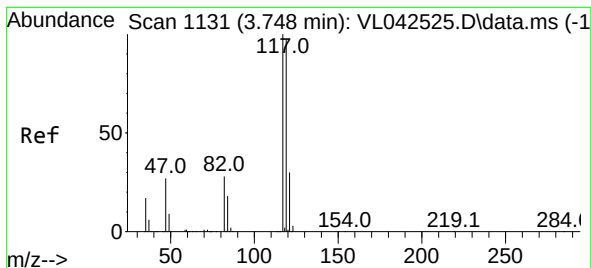
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#34
2-Butanone
Concen: 8.720 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion: 43 Resp: 197074
Ion Ratio Lower Upper
43 100
72 24.4 18.7 28.1





#35

Carbon Tetrachloride

Concen: 8.997 ppbv

RT: 3.768 min Scan# 1131

Delta R.T. 0.019 min

Lab File: VL042538.D

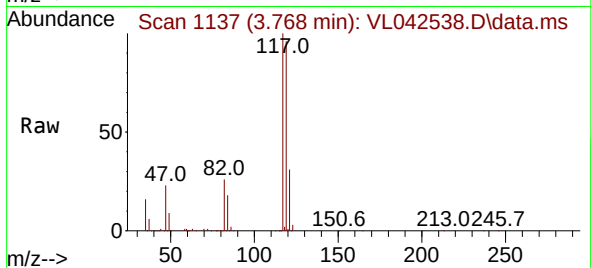
Acq: 14 May 2025 11:53

Instrument :

MSVOA_L

ClientSampleId :

VL0514ABS01



Tgt Ion:117 Resp: 27733

Ion Ratio Lower Upper

117 100

119 95.8 77.7 116.5

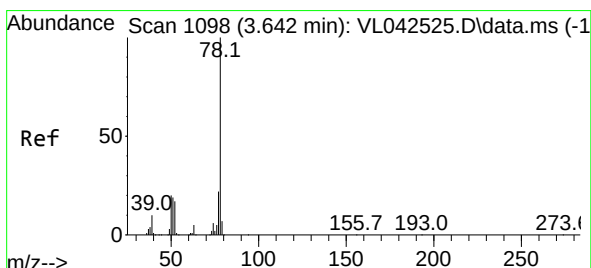
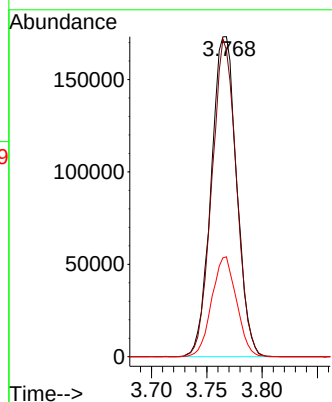
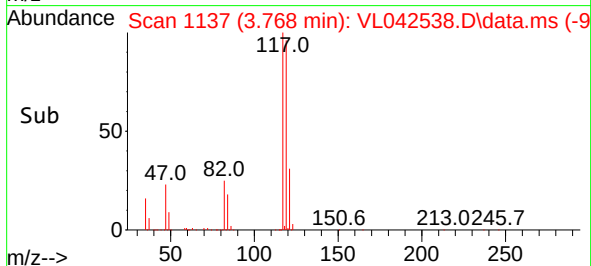
121 31.2 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#36

Benzene

Concen: 9.661 ppbv

RT: 3.661 min Scan# 1104

Delta R.T. 0.019 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

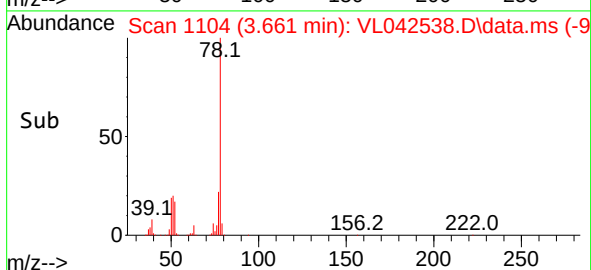
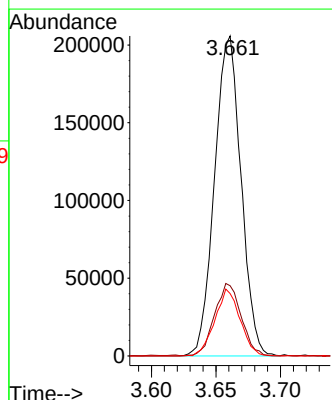
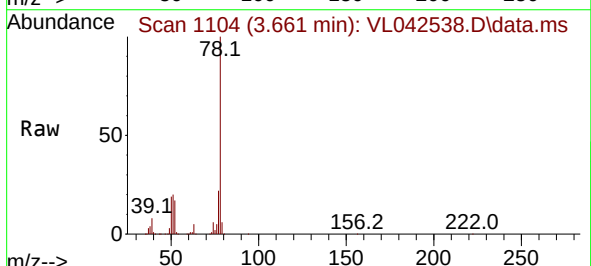
Tgt Ion: 78 Resp: 293547

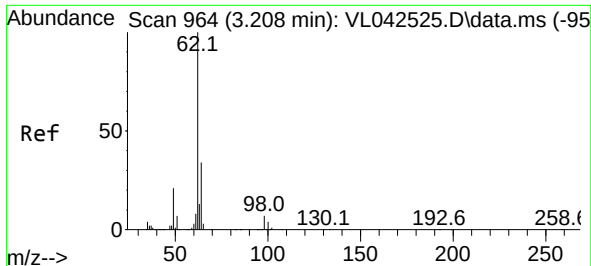
Ion Ratio Lower Upper

78 100

77 21.9 17.4 26.2

50 19.5 16.3 24.5





#37

1,2-Dichloroethane

Concen: 8.932 ppbv

RT: 3.221 min Scan# 90

Delta R.T. 0.013 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Instrument :

MSVOA_L

ClientSampleId :

VL0514ABS01

Tgt Ion: 62 Resp: 193600

Ion Ratio Lower Upper

62 100

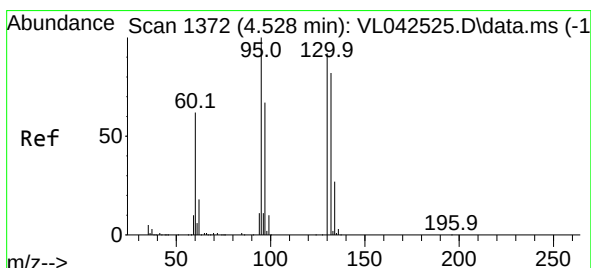
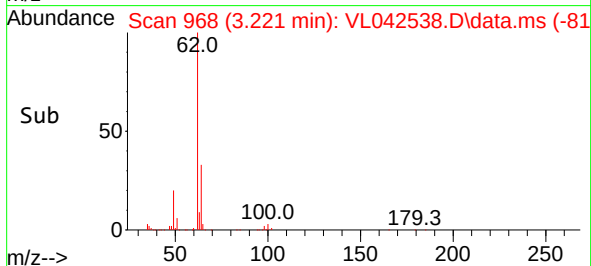
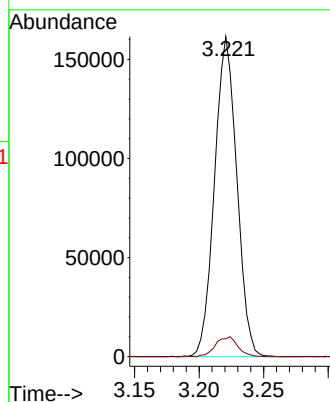
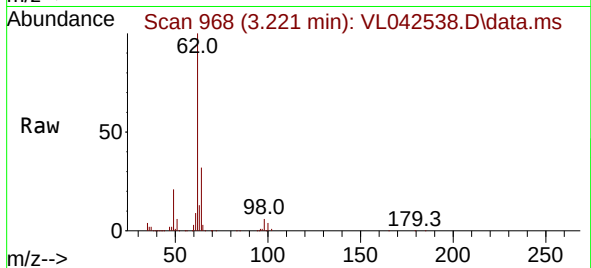
98 6.3 5.0 7.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#38

Trichloroethene

Concen: 9.261 ppbv

RT: 4.551 min Scan# 1379

Delta R.T. 0.023 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Tgt Ion:130 Resp: 122351

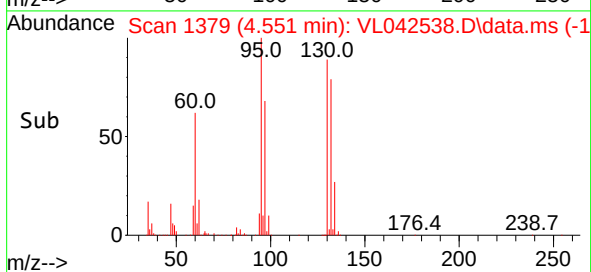
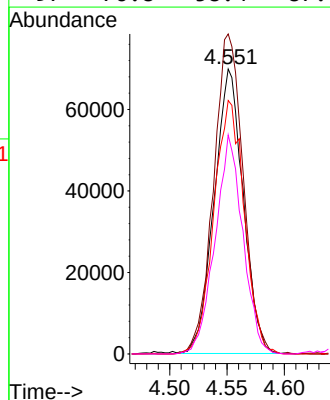
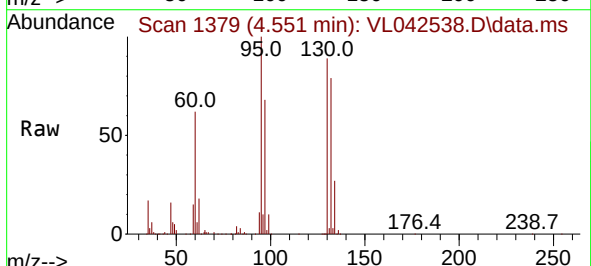
Ion Ratio Lower Upper

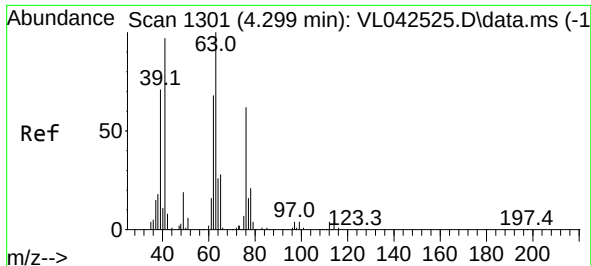
130 100

95 112.3 87.0 130.4

132 89.0 71.1 106.7

97 76.8 58.4 87.6





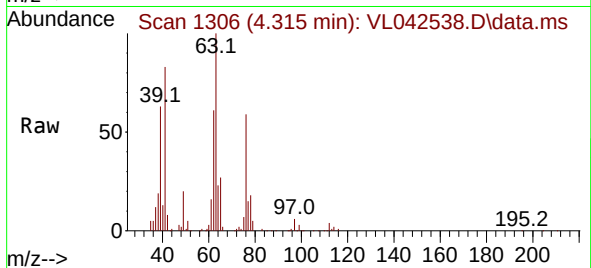
#39
1,2-Dichloropropane
Concen: 9.148 ppbv
RT: 4.315 min Scan# 1306
Delta R.T. 0.016 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Instrument :

MSVOA_L

ClientSampleId :

VL0514ABS01

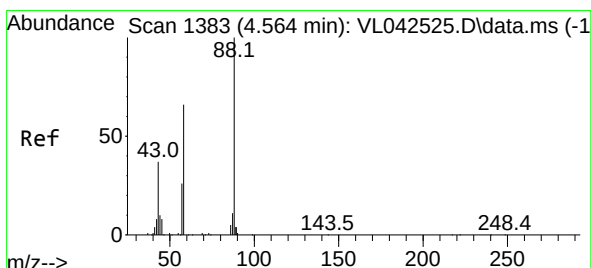
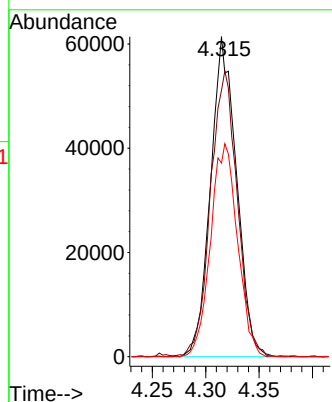
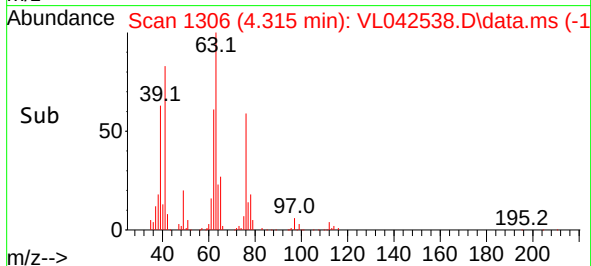


Tgt Ion: 63 Resp: 10354
Ion Ratio Lower Upper
63 100
41 82.9 77.5 116.3
62 60.5 54.6 82.0

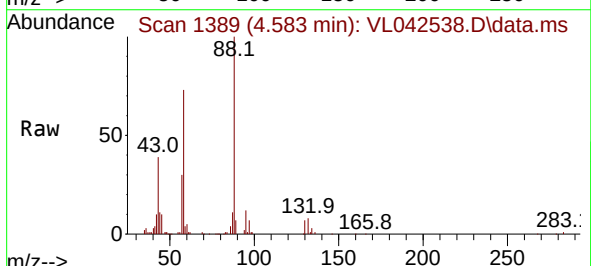
Manual Integrations

APPROVED

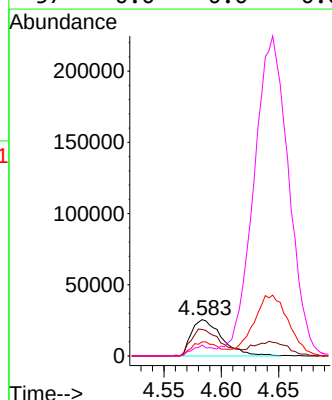
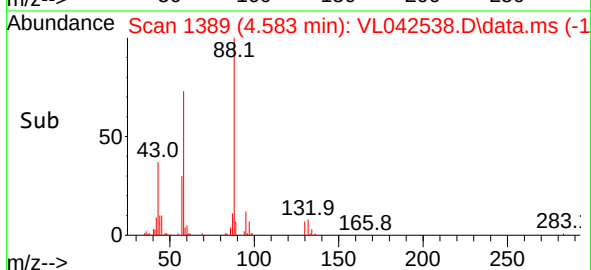
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

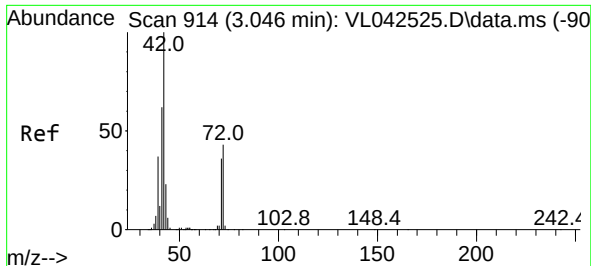


#40
1,4-Dioxane
Concen: 10.292 ppbv
RT: 4.583 min Scan# 1389
Delta R.T. 0.019 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53



Tgt Ion: 88 Resp: 47286
Ion Ratio Lower Upper
88 100
58 71.7 58.2 87.2
43 35.4 27.9 41.9
57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 10.403 ppbv

RT: 3.056 min Scan# 914

Delta R.T. 0.010 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Instrument :

MSVOA_L

ClientSampleId :

VL0514ABS01

Tgt Ion: 42 Resp: 10176

Ion Ratio Lower Upper

42 100

72 40.0 32.7 49.1

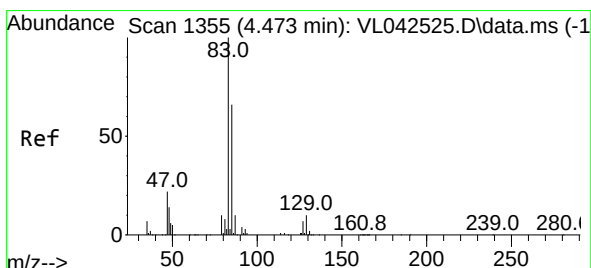
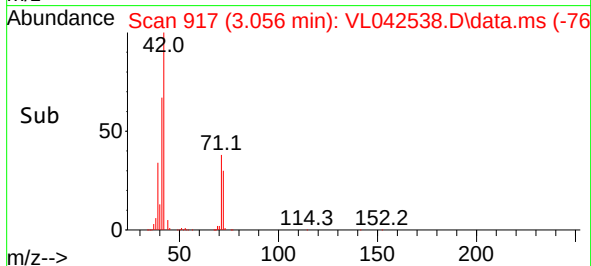
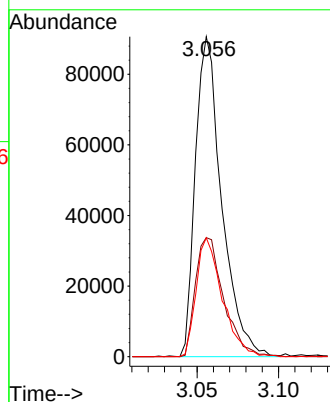
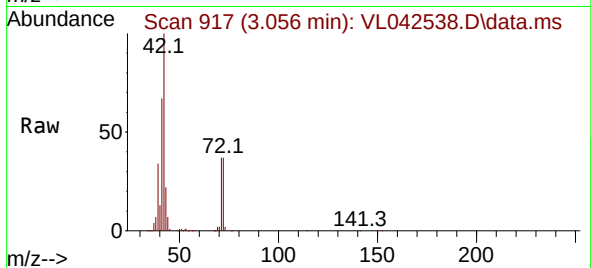
71 37.0 30.4 45.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#42

Bromodichloromethane

Concen: 9.111 ppbv

RT: 4.493 min Scan# 1361

Delta R.T. 0.019 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

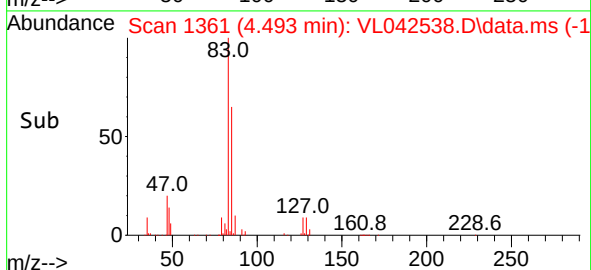
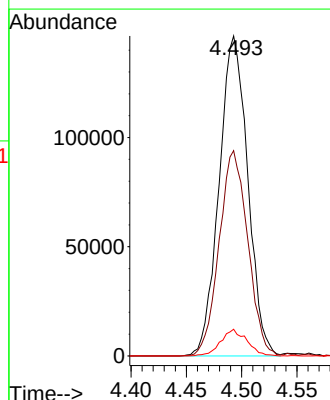
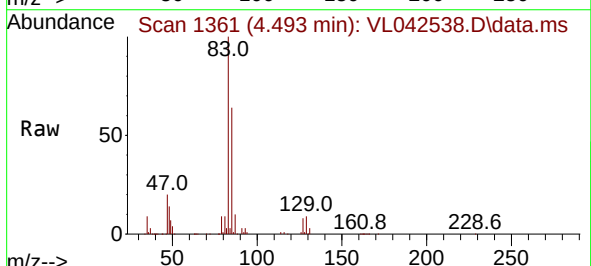
Tgt Ion: 83 Resp: 263548

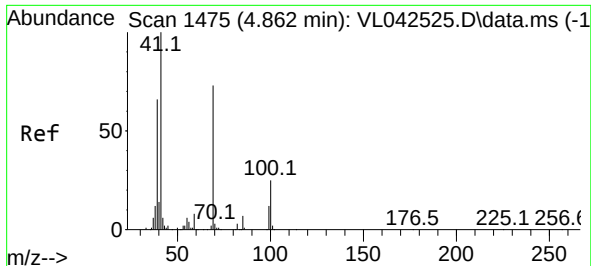
Ion Ratio Lower Upper

83 100

85 64.1 52.6 79.0

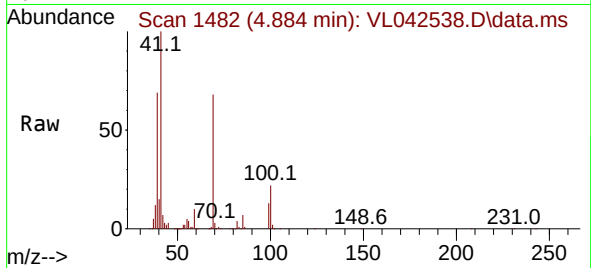
127 8.4 6.0 9.0





#43
Methyl Methacrylate
Concen: 10.429 ppbv
RT: 4.884 min Scan# 1475
Delta R.T. 0.023 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

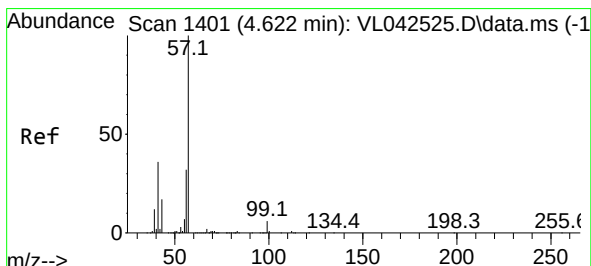
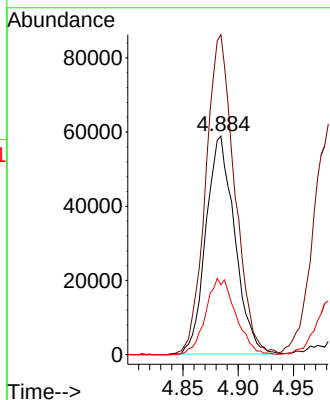
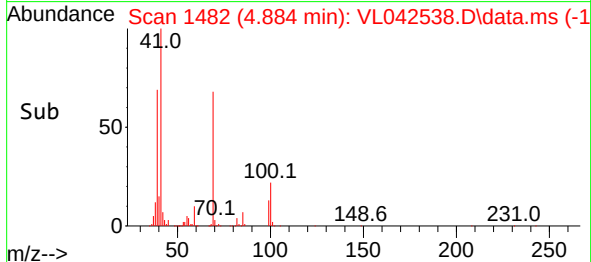
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01



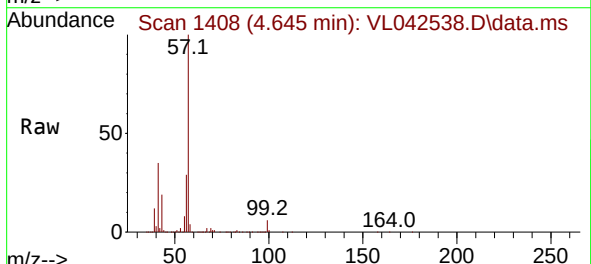
Tgt Ion: 69 Resp: 106120
Ion Ratio Lower Upper
69 100
41 148.3 119.9 179.9
100 36.5 28.4 42.6

Manual Integrations
APPROVED

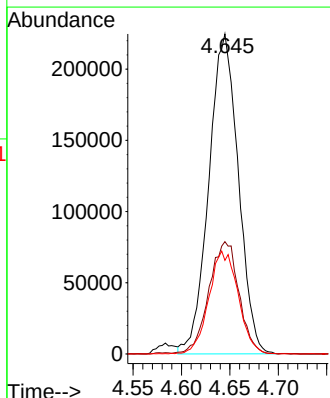
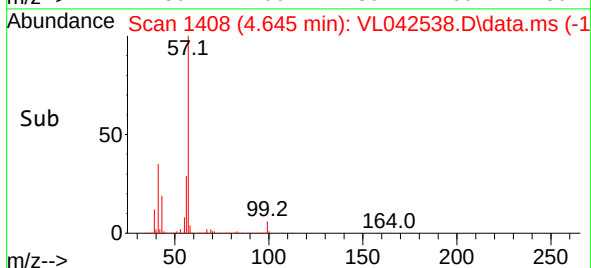
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

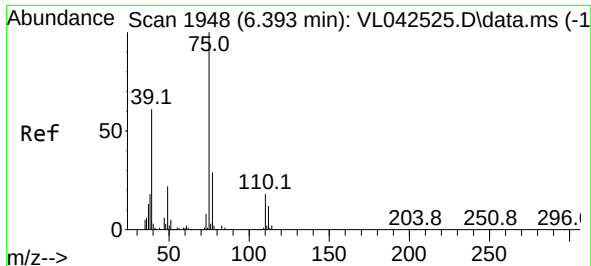


#44
2,2,4-Trimethylpentane
Concen: 9.887 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.023 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53



Tgt Ion: 57 Resp: 476041
Ion Ratio Lower Upper
57 100
41 36.0 28.3 42.5
56 32.1 25.9 38.9





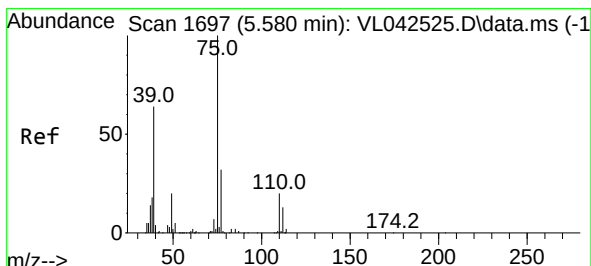
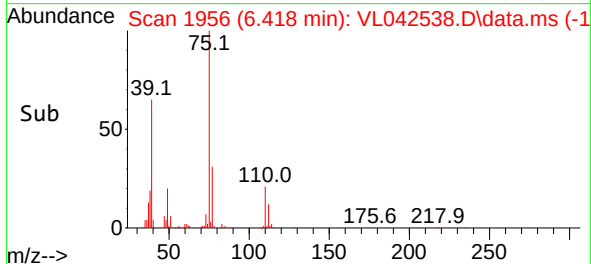
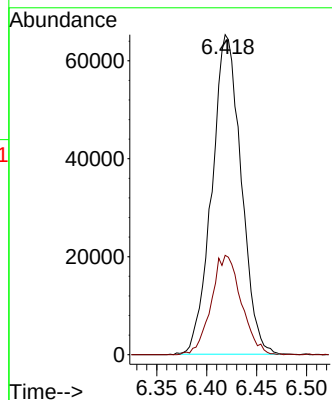
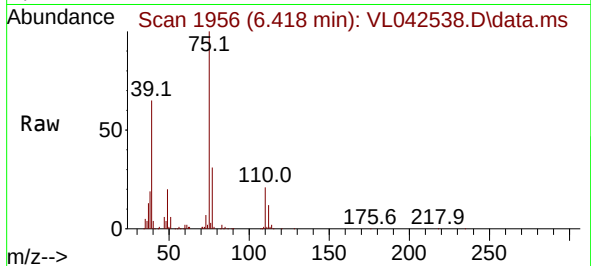
#45
t-1,3-Dichloropropene
Concen: 10.223 ppbv
RT: 6.418 min Scan# 1705
Delta R.T. 0.026 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

Tgt Ion: 75 Resp: 13291
Ion Ratio Lower Upper
75 100
77 31.1 23.3 34.9

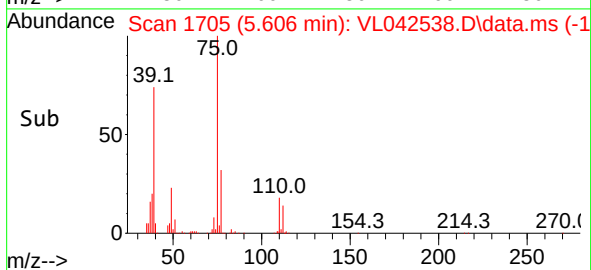
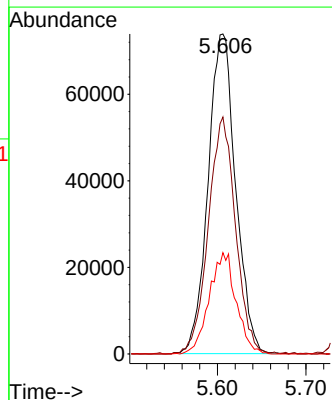
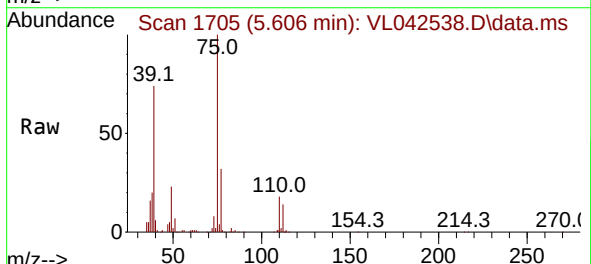
Manual Integrations
APPROVED

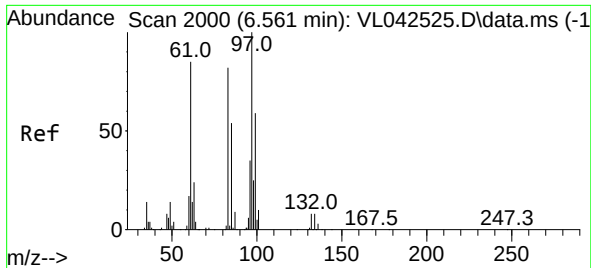
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#46
cis-1,3-Dichloropropene
Concen: 10.239 ppbv
RT: 5.606 min Scan# 1705
Delta R.T. 0.026 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

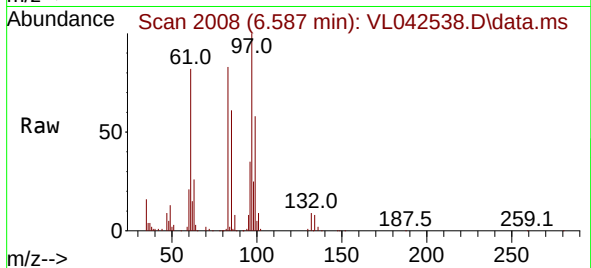
Tgt Ion: 75 Resp: 160141
Ion Ratio Lower Upper
75 100
39 73.9 51.2 76.8
77 31.7 25.4 38.0





#47
1,1,2-Trichloroethane
Concen: 8.967 ppbv
RT: 6.587 min Scan# 2008
Delta R.T. 0.026 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

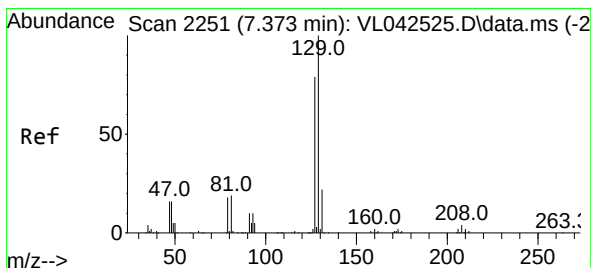
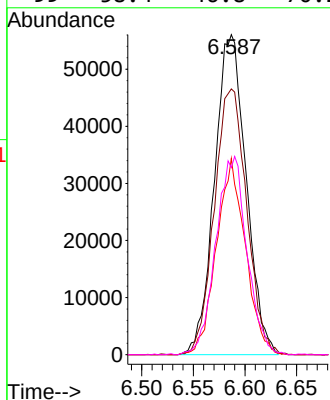
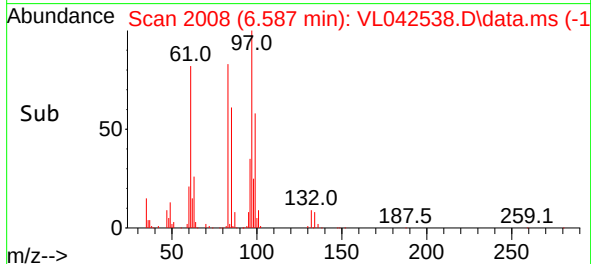
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01



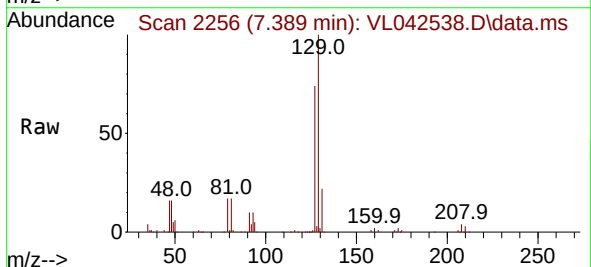
Tgt Ion	Ratio	Lower	Upper
97	100		
83	83.1	66.0	99.0
85	61.3	42.8	64.2
99	58.4	46.8	70.2

Manual Integrations
APPROVED

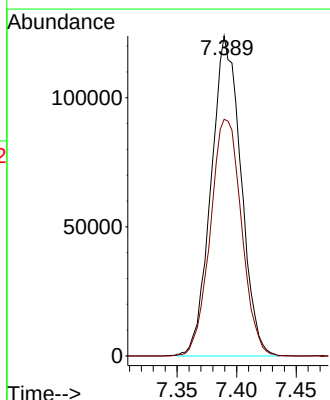
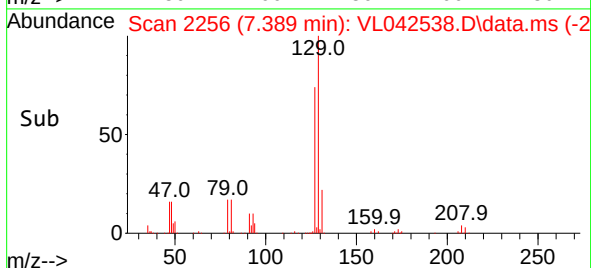
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

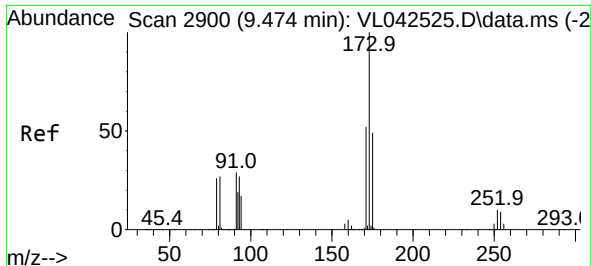


#48
Dibromochloromethane
Concen: 9.676 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. 0.016 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53



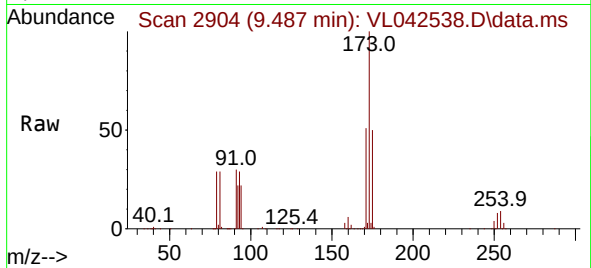
Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.3	39.6	118.8





#49
Bromoform
Concen: 9.740 ppbv
RT: 9.487 min Scan# 2904
Delta R.T. 0.013 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

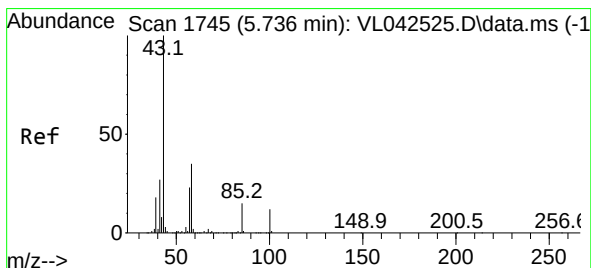
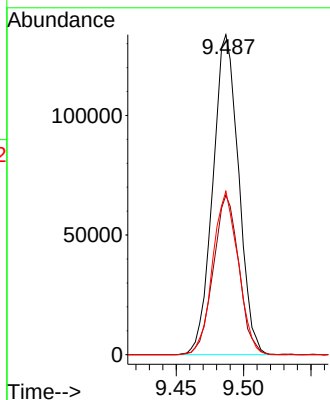
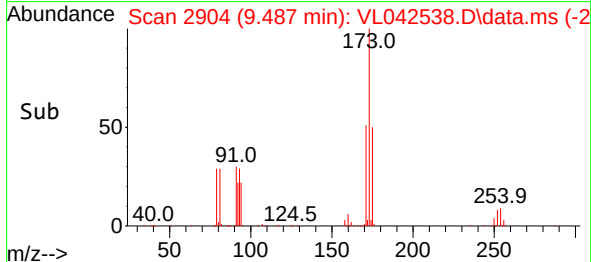
Instrument : MSVOA_L
ClientSampleId : VL0514ABS01



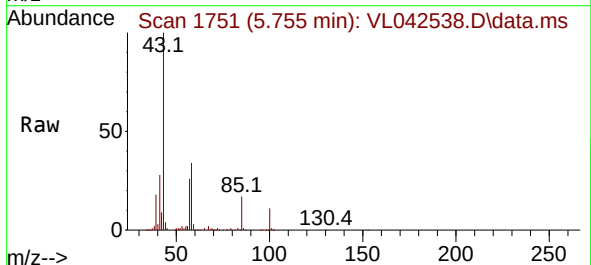
Tgt Ion:173 Resp: 17787
Ion Ratio Lower Upper
173 100
175 49.5 39.1 58.7
171 50.7 41.8 62.8

Manual Integrations
APPROVED

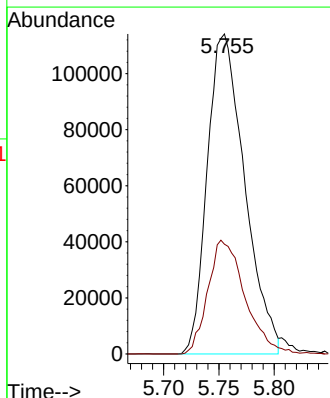
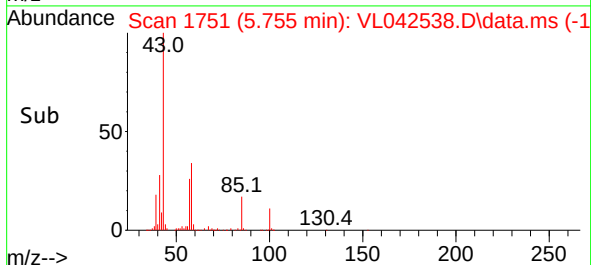
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

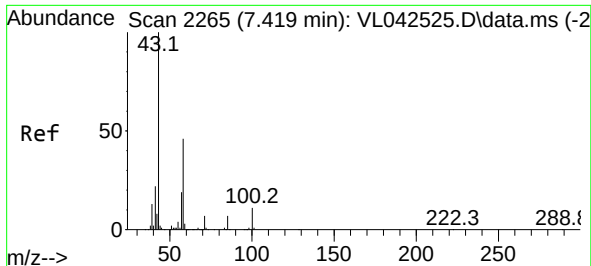


#50
4-Methyl-2-Pentanone
Concen: 10.107 ppbv
RT: 5.755 min Scan# 1751
Delta R.T. 0.019 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53



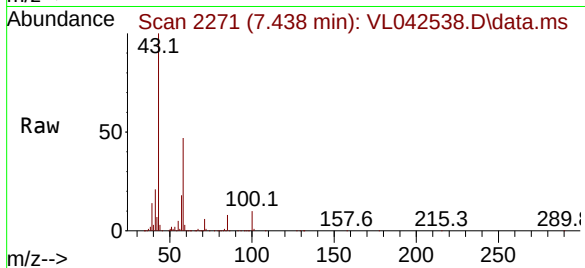
Tgt Ion: 43 Resp: 268277
Ion Ratio Lower Upper
43 100
58 35.4 28.6 42.8





#51
2-Hexanone
Concen: 11.195 ppbv
RT: 7.438 min Scan# 21104
Delta R.T. 0.019 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

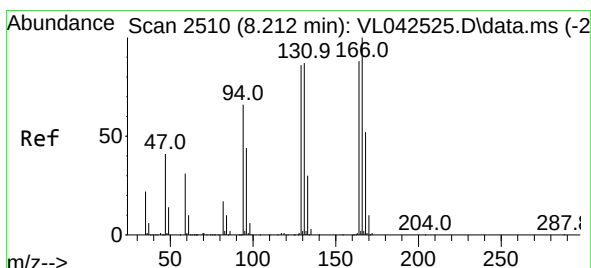
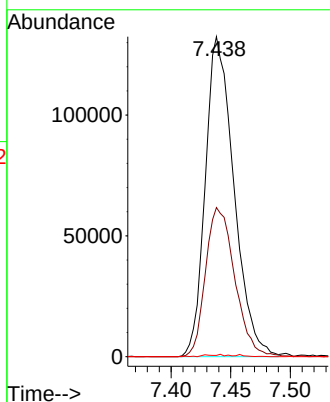
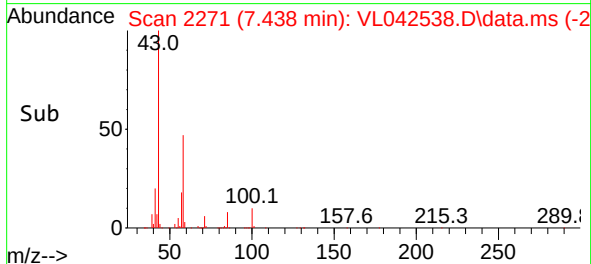
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01



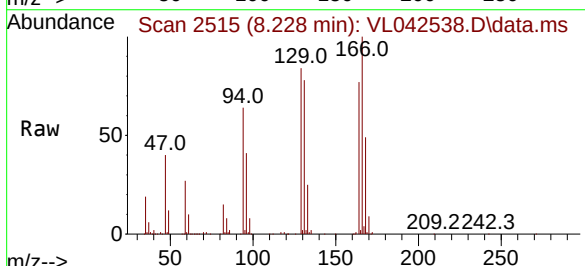
Tgt Ion: 43 Resp: 22104
Ion Ratio Lower Upper
43 100
58 47.7 37.5 56.3
98 0.7 0.9 1.3

Manual Integrations
APPROVED

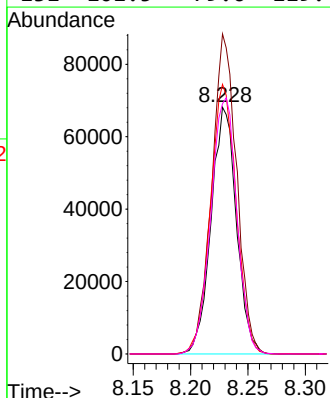
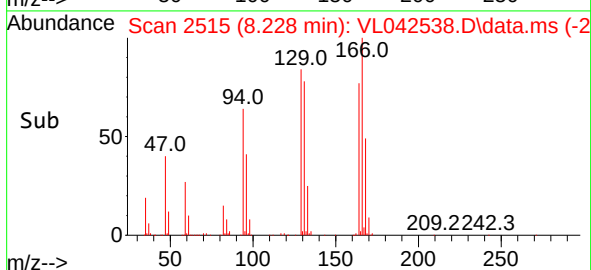
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

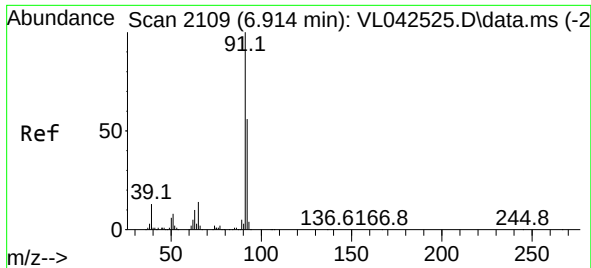


#52
Tetrachloroethene
Concen: 8.979 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.016 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53



Tgt Ion:164 Resp: 104385
Ion Ratio Lower Upper
164 100
166 129.7 91.3 136.9
129 109.3 78.9 118.3
131 101.5 79.6 119.4





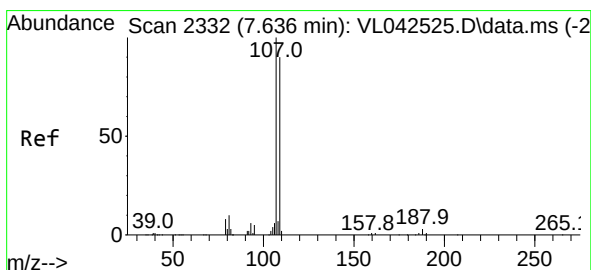
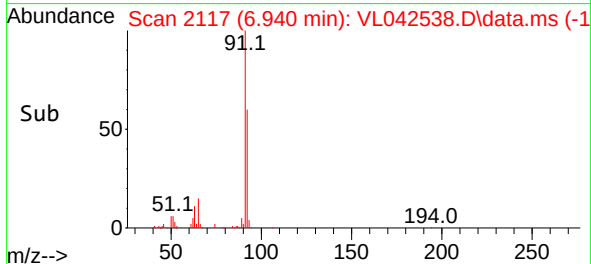
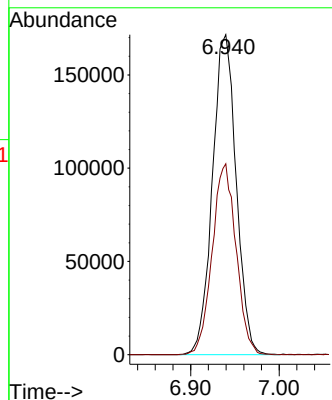
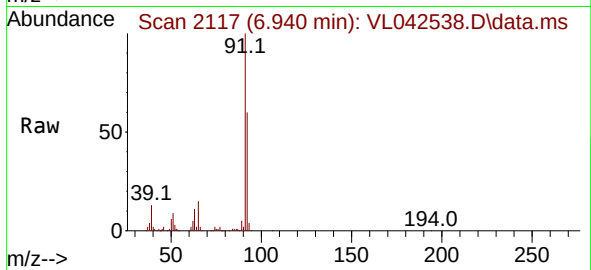
#53
Toluene
Concen: 10.735 ppbv
RT: 6.940 min Scan# 2109
Delta R.T. 0.026 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

Tgt Ion: 91 Resp: 320104
Ion Ratio Lower Upper
91 100
92 59.9 47.8 71.6

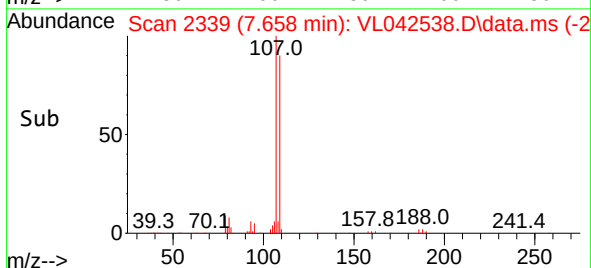
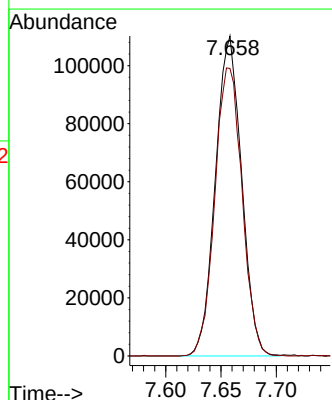
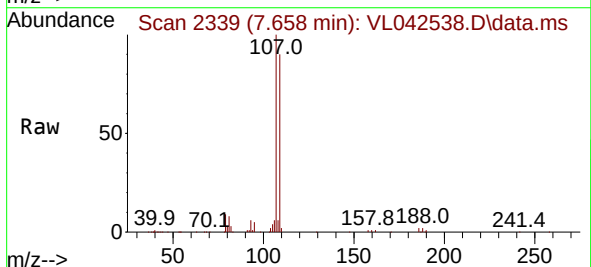
Manual Integrations
APPROVED

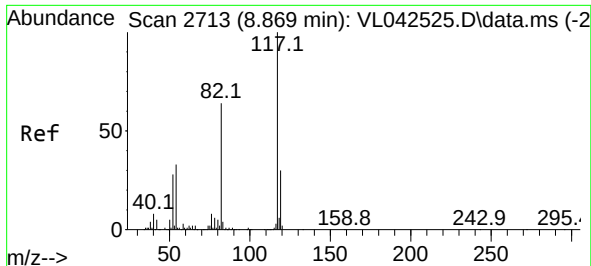
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#54
1,2-Dibromoethane
Concen: 9.315 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.022 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

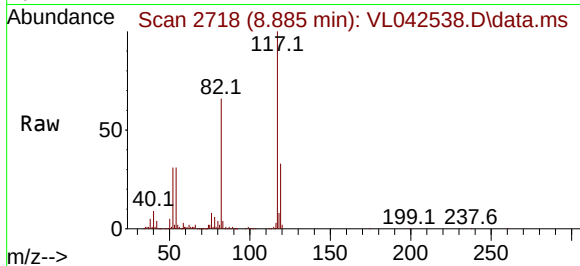
Tgt Ion:107 Resp: 181316
Ion Ratio Lower Upper
107 100
109 89.9 72.2 108.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.016 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

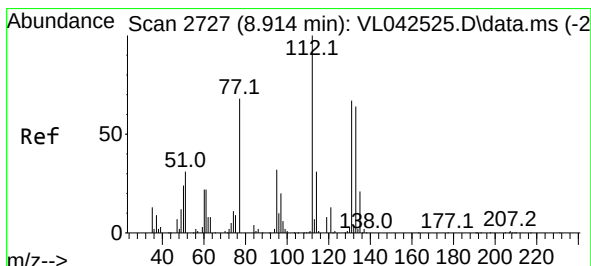
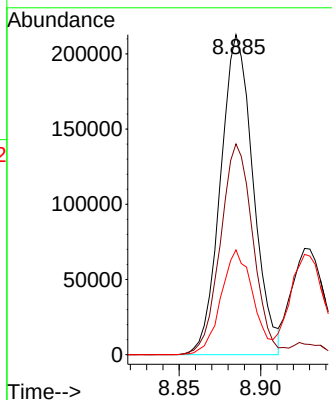
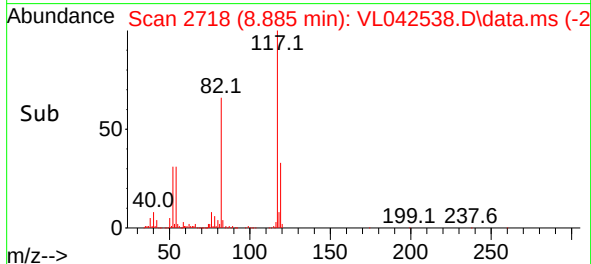
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01



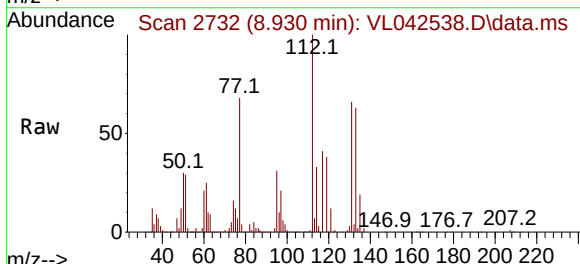
Tgt Ion:117 Resp: 296340
Ion Ratio Lower Upper
117 100
82 69.2 55.0 82.4
119 32.3 25.8 38.6

Manual Integrations
APPROVED

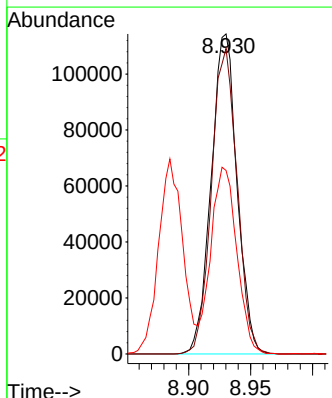
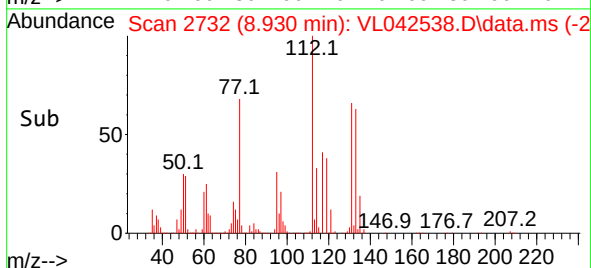
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

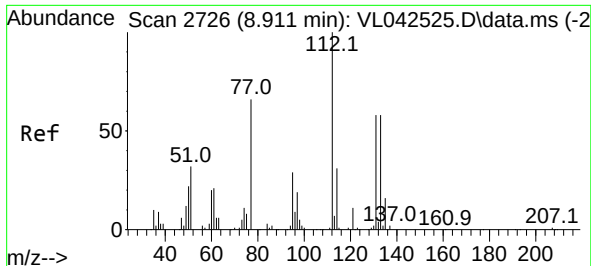


#56
1,1,1,2-Tetrachloroethane
Concen: 9.064 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.016 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53



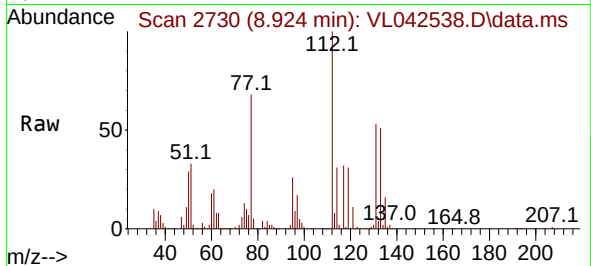
Tgt Ion:131 Resp: 166531
Ion Ratio Lower Upper
131 100
133 94.4 77.4 116.2
119 59.5 49.0 73.4





#57
Chlorobenzene
Concen: 9.248 ppbv
RT: 8.924 min Scan# 2726
Delta R.T. 0.013 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

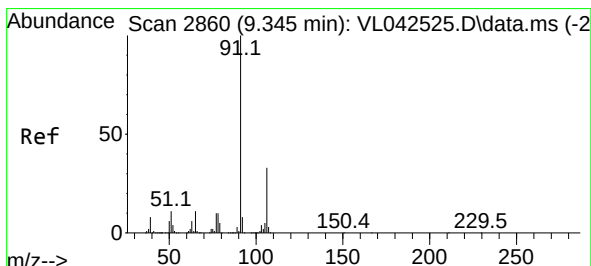
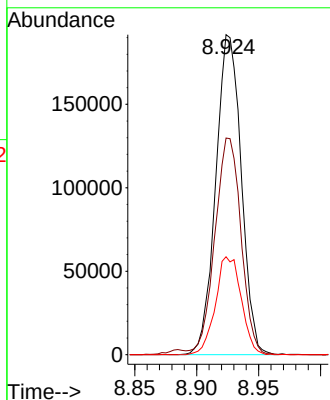
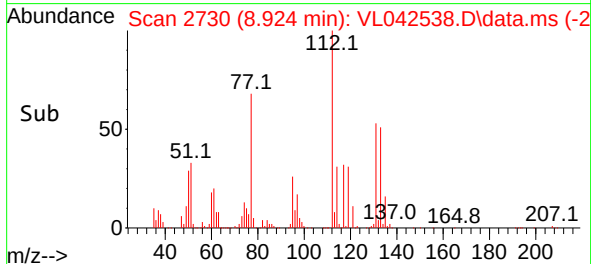
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01



Tgt Ion: 112 Resp: 275170
Ion Ratio Lower Upper
112 100
77 67.6 53.6 80.4
114 30.6 28.2 34.4

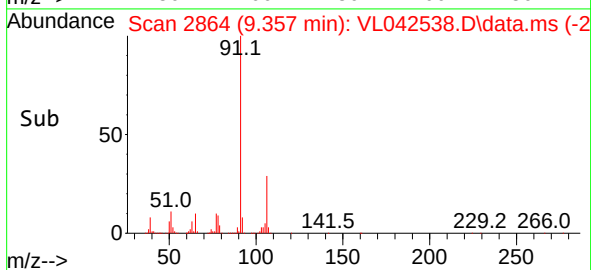
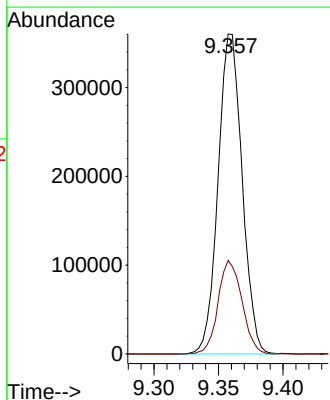
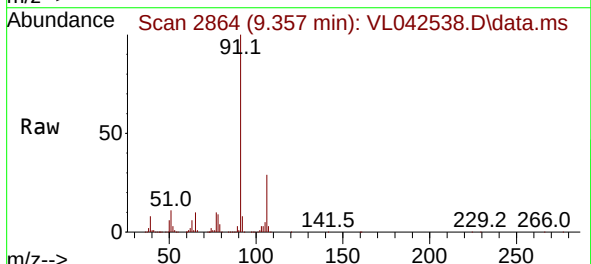
Manual Integrations
APPROVED

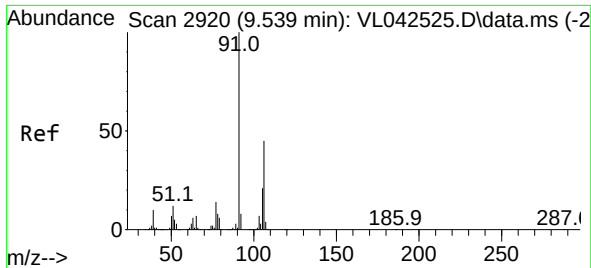
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#58
Ethyl Benzene
Concen: 11.554 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.013 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion: 91 Resp: 466684
Ion Ratio Lower Upper
91 100
106 29.2 26.0 39.0





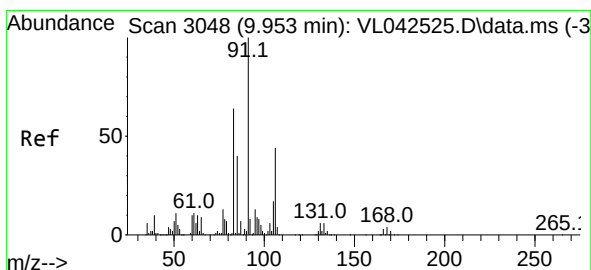
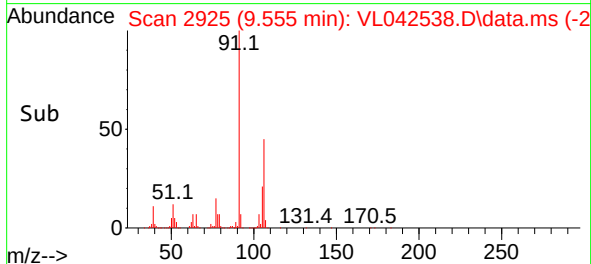
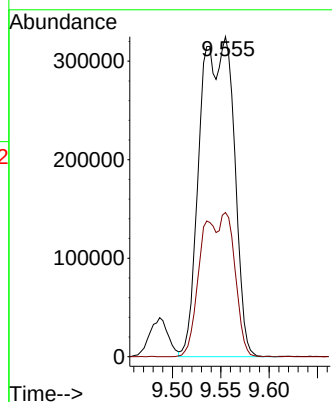
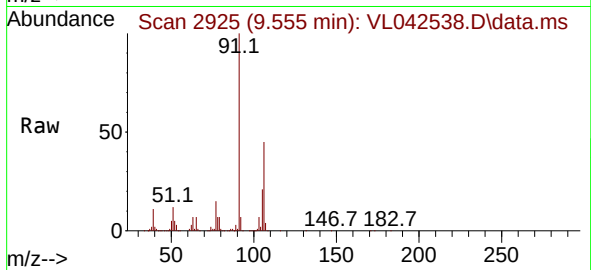
#59
m/p-Xylene
Concen: 22.159 ppbv m
RT: 9.555 min Scan# 2920
Delta R.T. 0.016 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

Tgt Ion: 91 Resp: 79487
Ion Ratio Lower Upper
91 100
106 44.5 0.0 0.0

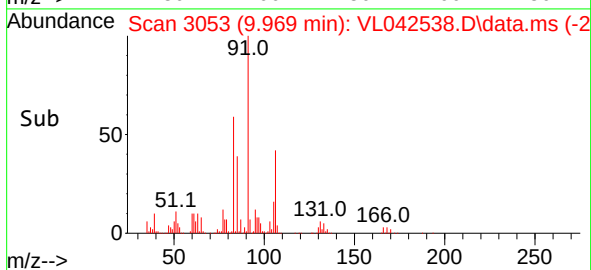
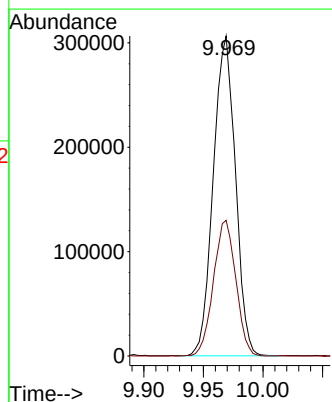
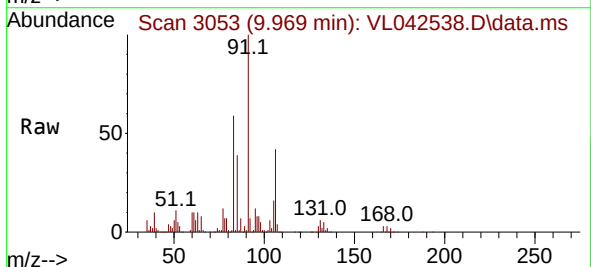
Manual Integrations
APPROVED

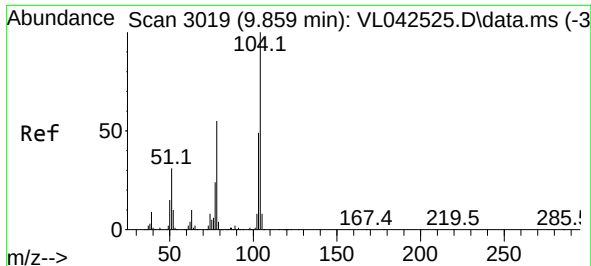
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#60
o-Xylene
Concen: 11.290 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.016 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion: 91 Resp: 395533
Ion Ratio Lower Upper
91 100
106 42.9 21.6 64.6





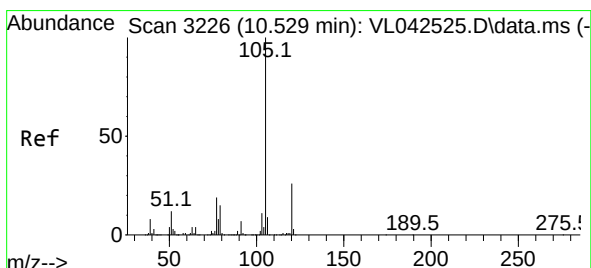
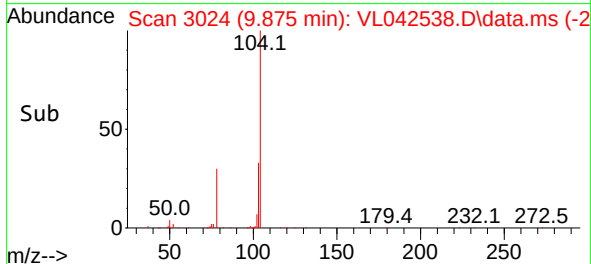
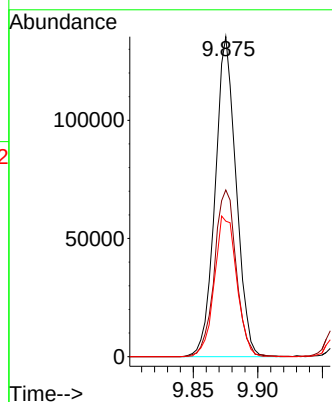
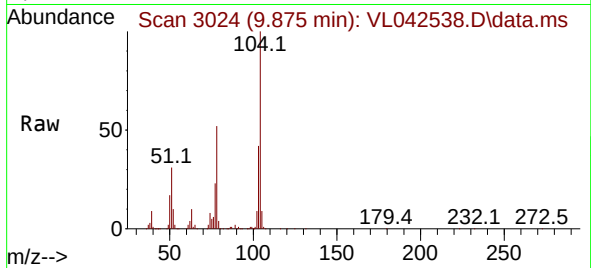
#61
Styrene
Concen: 11.763 ppbv
RT: 9.875 min Scan# 3019
Delta R.T. 0.016 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

Tgt Ion:104 Resp: 152629
Ion Ratio Lower Upper
104 100
78 54.4 44.7 67.1
103 47.1 38.6 58.0

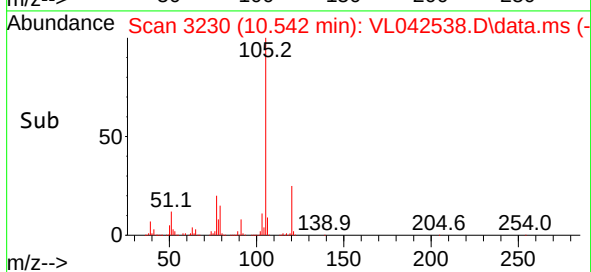
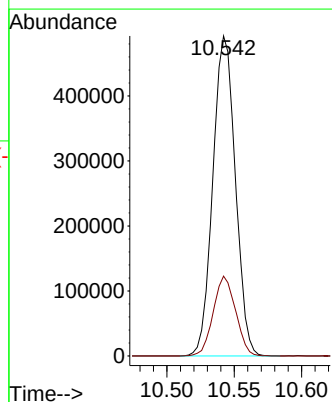
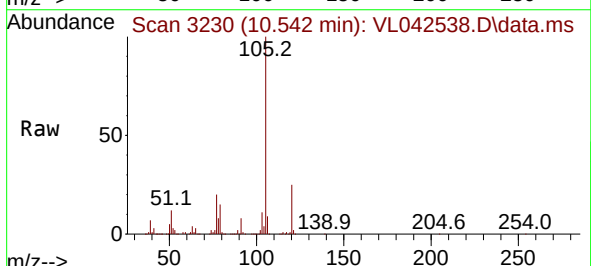
Manual Integrations
APPROVED

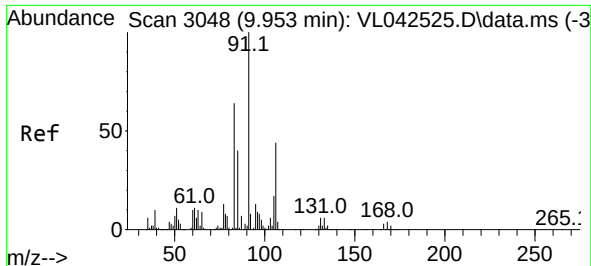
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#62
Isopropylbenzene
Concen: 10.847 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.013 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

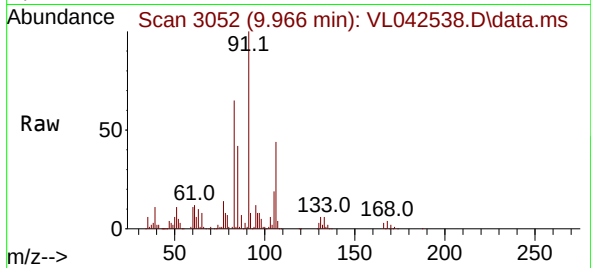
Tgt Ion:105 Resp: 572300
Ion Ratio Lower Upper
105 100
120 24.7 20.1 30.1





#63
1,1,2,2-Tetrachloroethane
Concen: 8.734 ppbv
RT: 9.966 min Scan# 3048
Delta R.T. 0.013 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

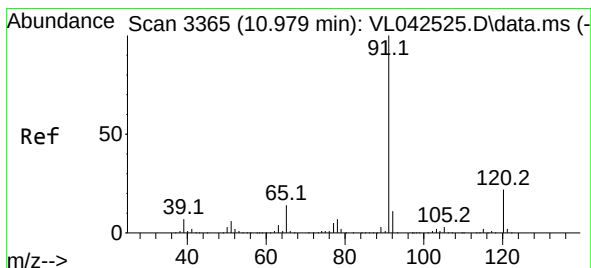
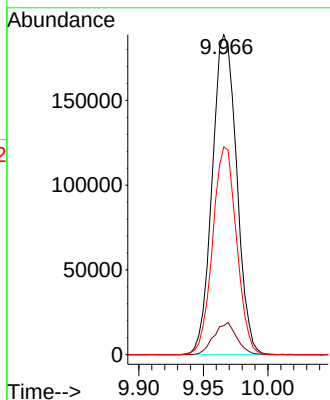
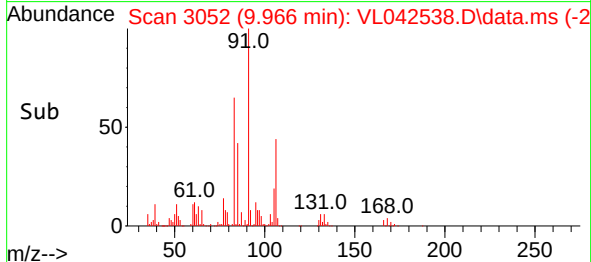
Instrument : MSVOA_L
ClientSampleId : VL0514ABS01



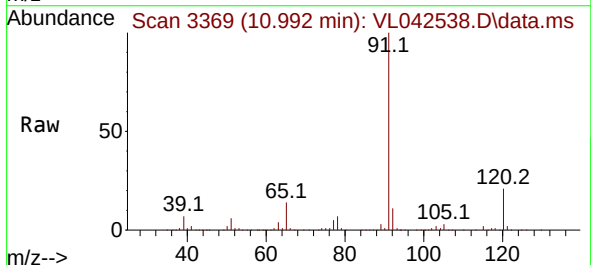
Tgt Ion: 83 Resp: 248344
Ion Ratio Lower Upper
83 100
131 9.5 4.9 14.7
85 63.6 32.3 96.8

Manual Integrations
APPROVED

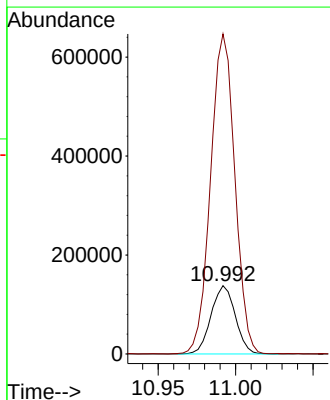
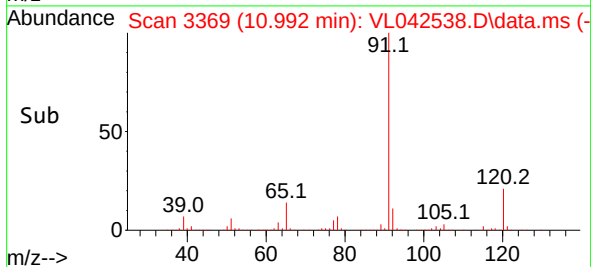
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

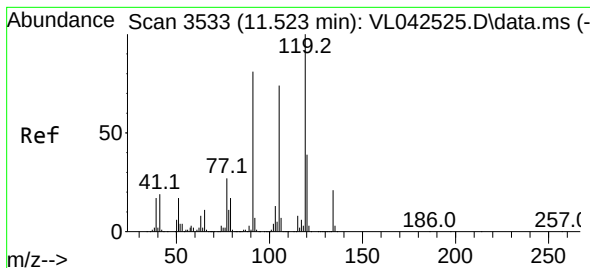


#64
n-propylbenzene
Concen: 11.156 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.013 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53



Tgt Ion:120 Resp: 149437
Ion Ratio Lower Upper
120 100
91 472.6 377.7 566.5





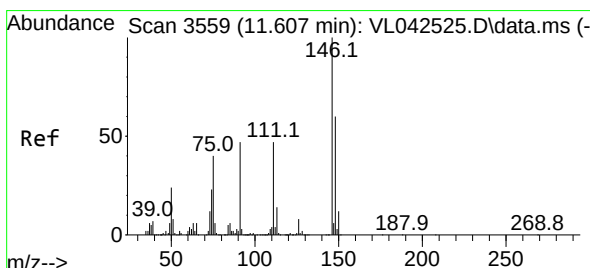
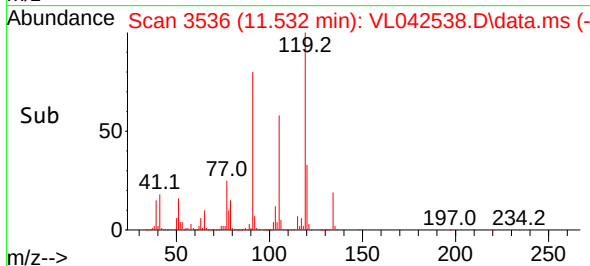
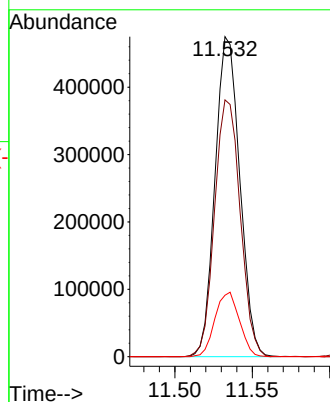
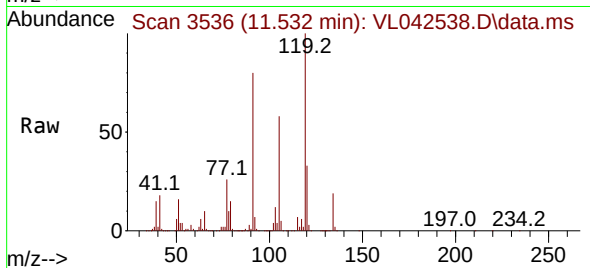
#65
tert-Butylbenzene
Concen: 10.878 ppbv
RT: 11.532 min Scan# 3533
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

Tgt Ion:119 Resp: 52703
Ion Ratio Lower Upper
119 100
91 83.1 66.6 99.8
134 19.9 16.3 24.5

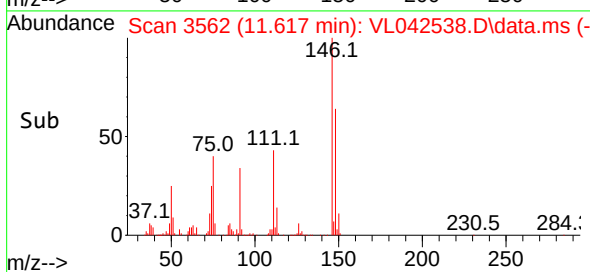
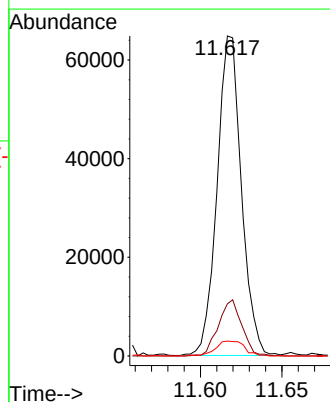
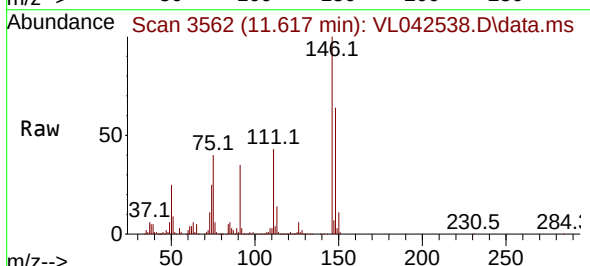
Manual Integrations
APPROVED

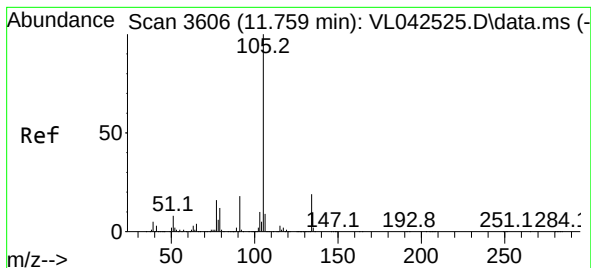
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#66
Benzyl Chloride
Concen: 10.445 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

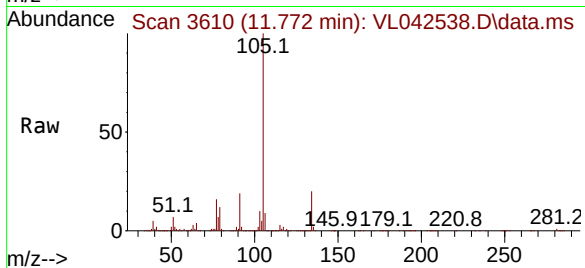
Tgt Ion: 91 Resp: 67242
Ion Ratio Lower Upper
91 100
126 16.9 13.7 20.5
128 5.6 4.2 6.2





#67
 sec-Butylbenzene
 Concen: 10.561 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.013 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53

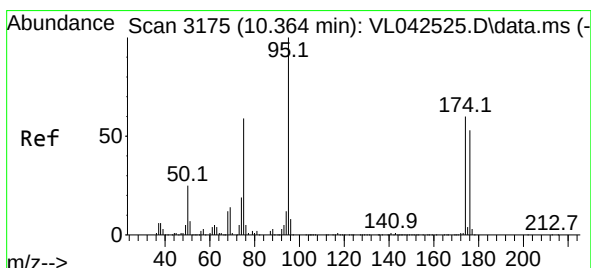
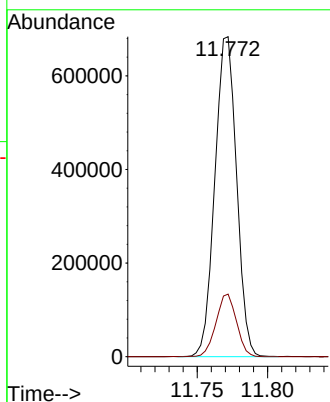
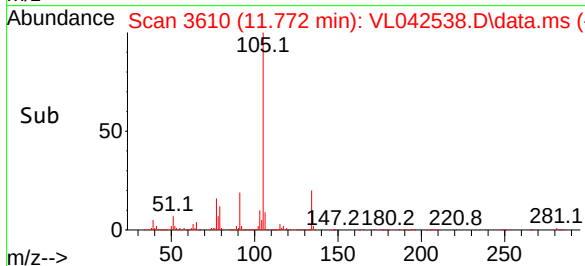
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0514ABS01



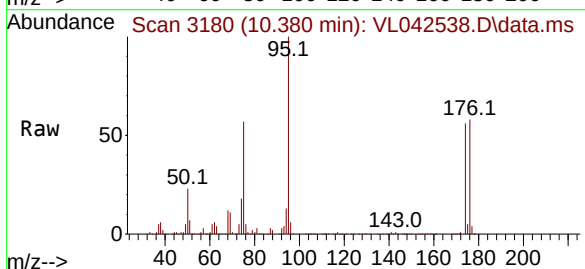
Tgt Ion: 105 Resp: 733600
 Ion Ratio Lower Upper
 105 100
 134 18.5 14.9 22.3

Manual Integrations
 APPROVED

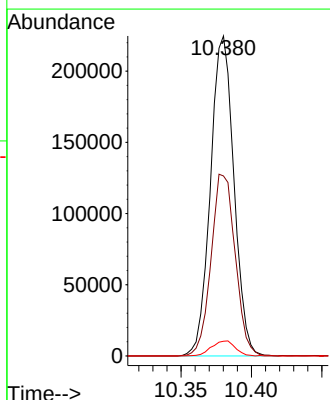
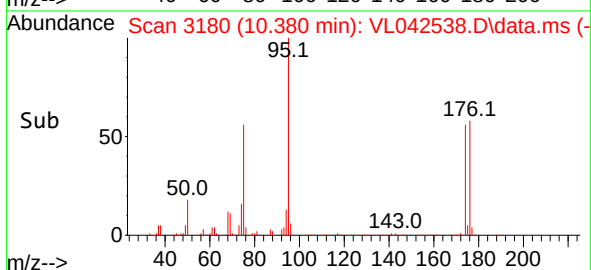
Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025

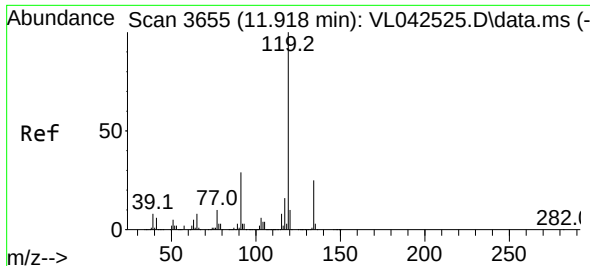


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.111 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. 0.016 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53



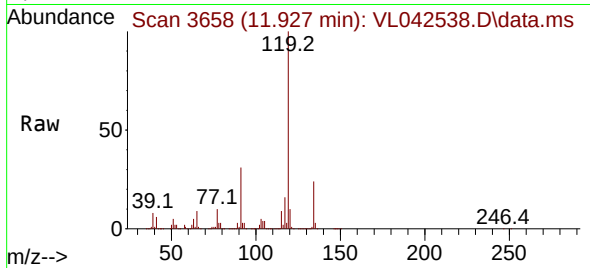
Tgt Ion: 95 Resp: 260716
 Ion Ratio Lower Upper
 95 100
 174 58.6 48.0 72.0
 175 4.8 3.5 5.3





#69
p-Isopropyltoluene
Concen: 11.129 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

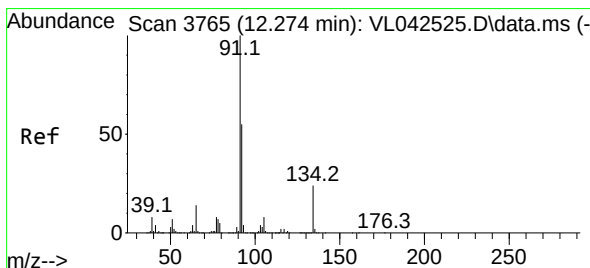
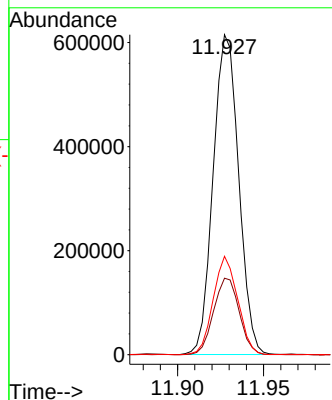
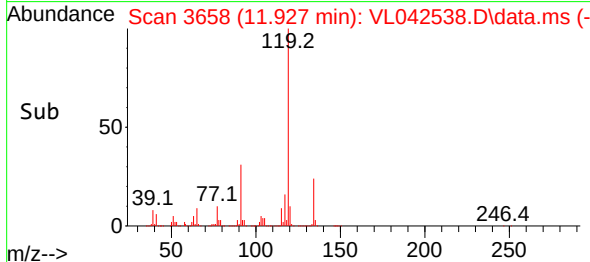
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01



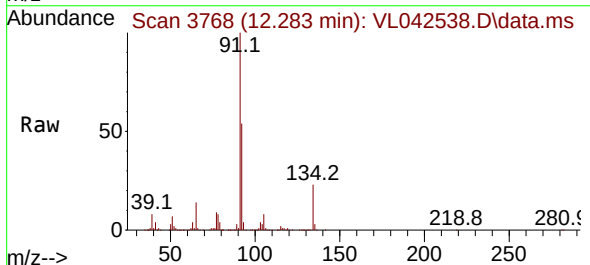
Tgt Ion:119 Resp: 63556
Ion Ratio Lower Upper
119 100
134 24.1 19.8 29.6
91 29.6 23.6 35.4

Manual Integrations
APPROVED

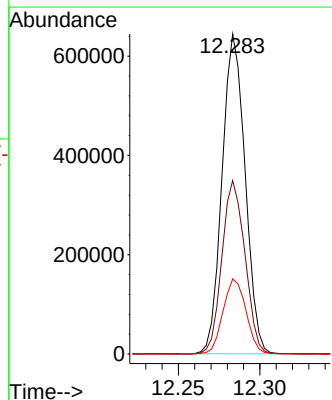
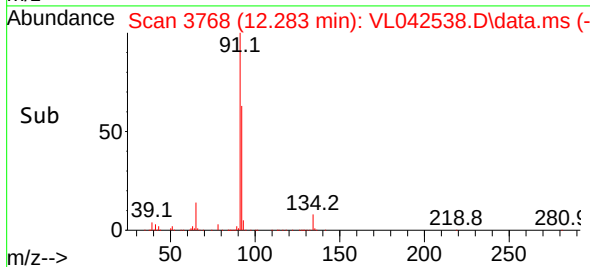
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025

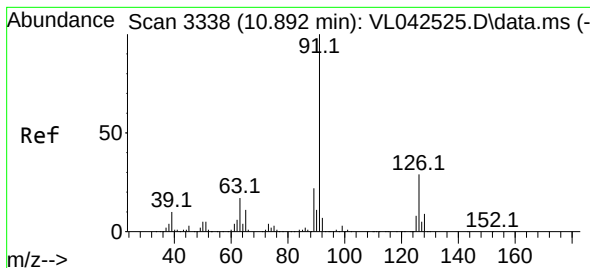


#70
n-Butylbenzene
Concen: 11.210 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53



Tgt Ion: 91 Resp: 632577
Ion Ratio Lower Upper
91 100
92 54.3 43.7 65.5
134 23.4 18.9 28.3





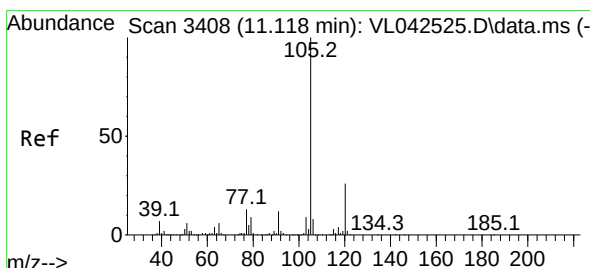
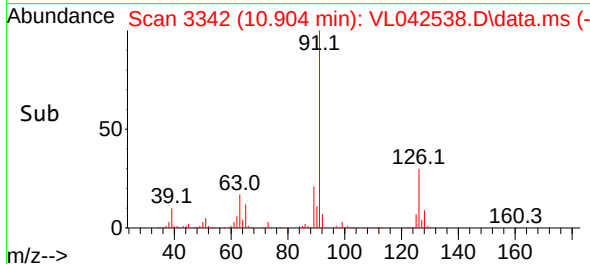
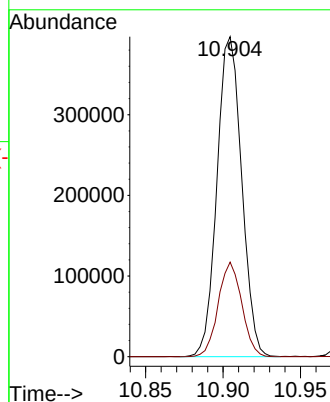
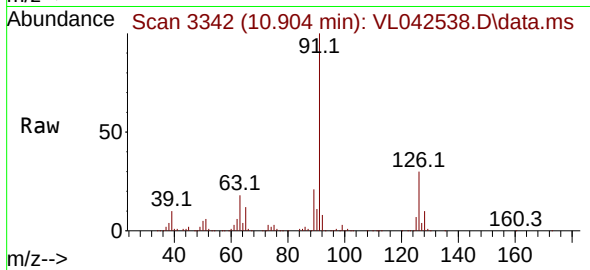
#71
2-Chlorotoluene
Concen: 11.010 ppbv
RT: 10.904 min Scan# 3410
Delta R.T. 0.013 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

Tgt Ion: 91 Resp: 439880
Ion Ratio Lower Upper
91 100
126 28.2 11.4 45.6

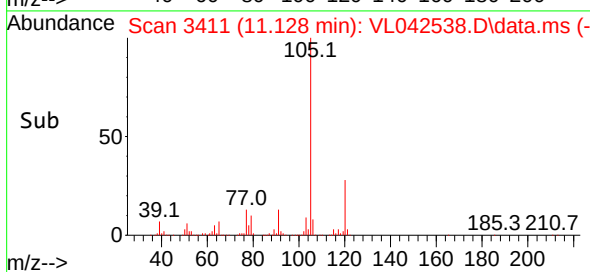
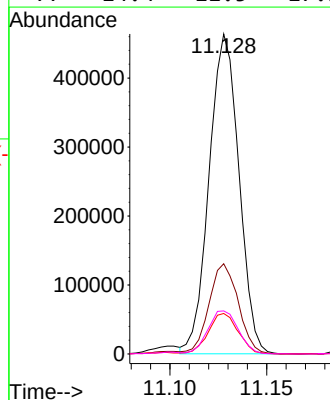
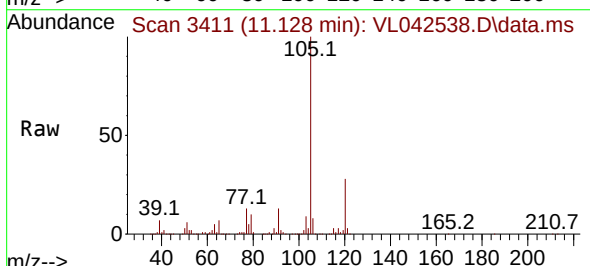
Manual Integrations
APPROVED

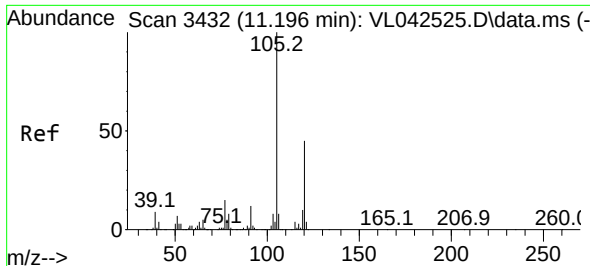
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#72
4-Ethyltoluene
Concen: 11.428 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion:105 Resp: 496655
Ion Ratio Lower Upper
105 100
120 28.5 22.9 34.3
91 13.2 10.9 16.3
77 14.4 11.5 17.3





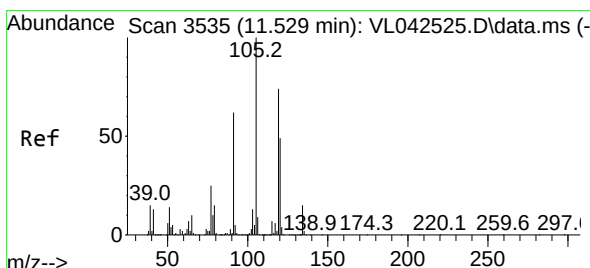
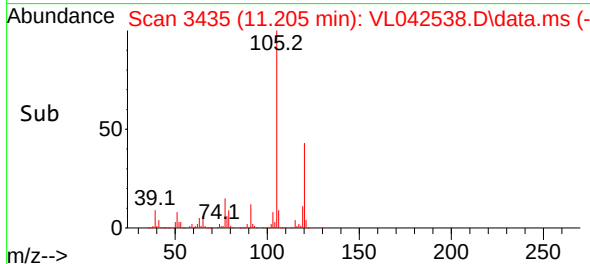
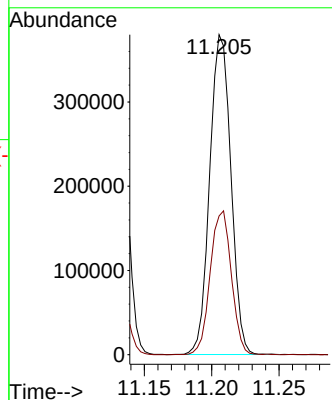
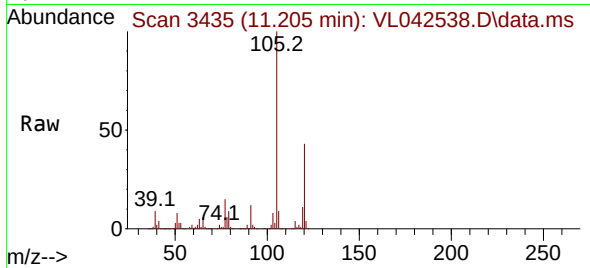
#73
1,3,5-Trimethylbenzene
Concen: 10.984 ppbv
RT: 11.205 min Scan# 3432
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01

Tgt Ion:105 Resp: 41578
Ion Ratio Lower Upper
105 100
120 43.4 36.0 54.0

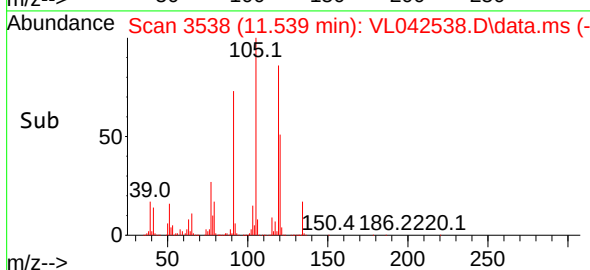
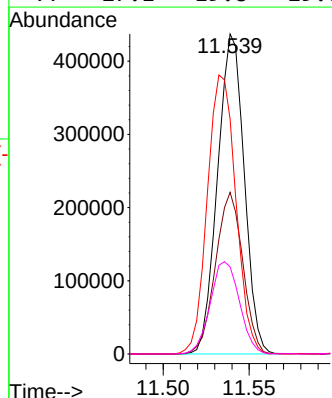
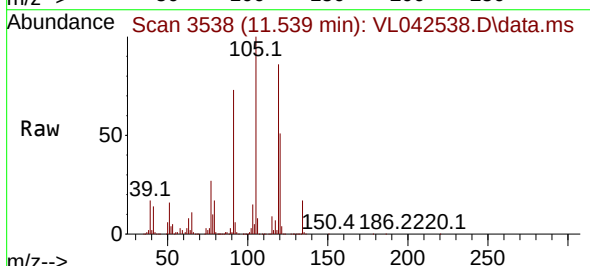
Manual Integrations
APPROVED

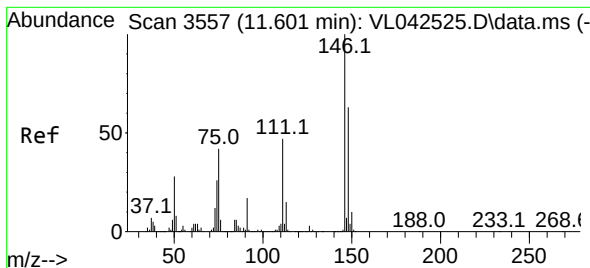
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#74
1,2,4-Trimethylbenzene
Concen: 10.114 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.010 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

Tgt Ion:105 Resp: 471038
Ion Ratio Lower Upper
105 100
120 50.5 39.0 58.6
91 73.3 49.4 74.2
77 27.1 19.8 29.6





#75

1,3-Dichlorobenzene

Concen: 9.675 ppbv

RT: 11.610 min Scan# 3557

Delta R.T. 0.010 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Instrument :

MSVOA_L

ClientSampleId :

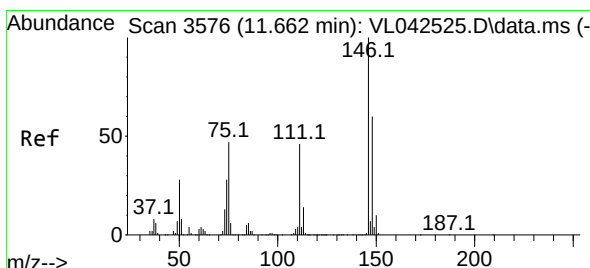
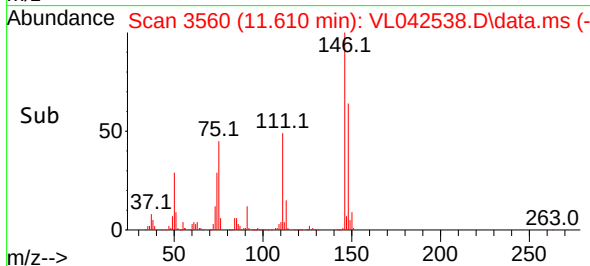
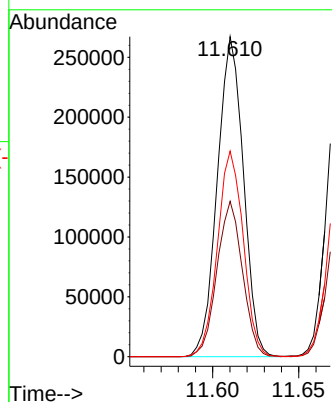
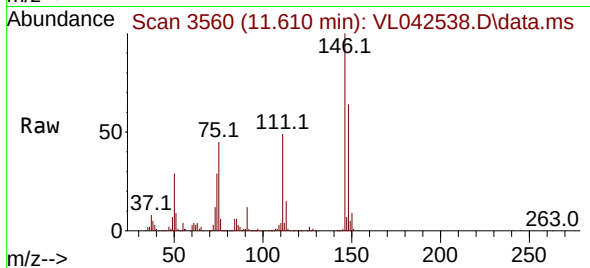
VL0514ABS01

Tgt Ion:	146	Resp:	28220
Ion Ratio	Lower	Upper	
146	100		
111	47.4	23.6	71.0
148	63.5	31.6	94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#76

1,4-Dichlorobenzene

Concen: 9.900 ppbv

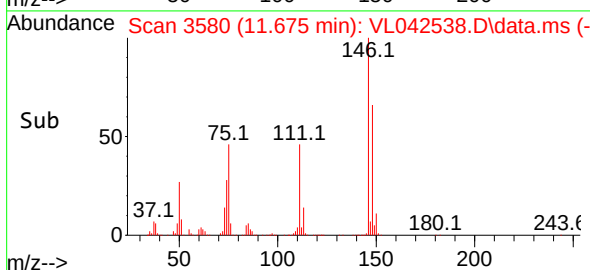
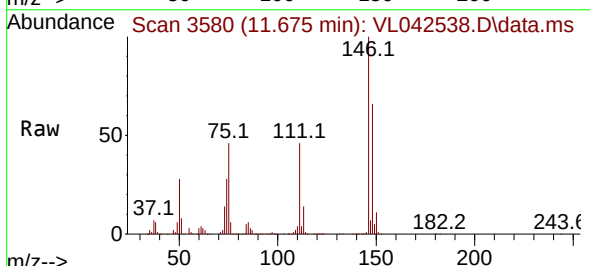
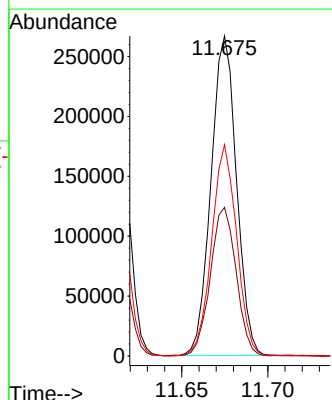
RT: 11.675 min Scan# 3580

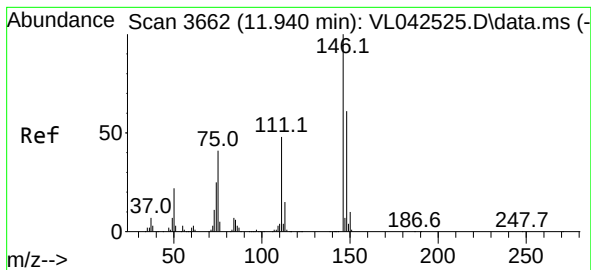
Delta R.T. 0.013 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Tgt Ion:	146	Resp:	274722
Ion Ratio	Lower	Upper	
146	100		
111	47.3	23.4	70.3
148	65.0	31.6	94.7





#77

1,2-Dichlorobenzene

Concen: 8.948 ppbv

RT: 11.950 min Scan# 3665

Delta R.T. 0.010 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

Instrument :

MSVOA_L

ClientSampleId :

VL0514ABS01

Tgt Ion:146 Resp: 26958

Ion Ratio Lower Upper

146 100

111 49.8 24.9 74.8

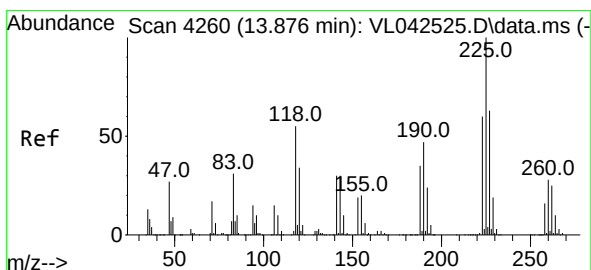
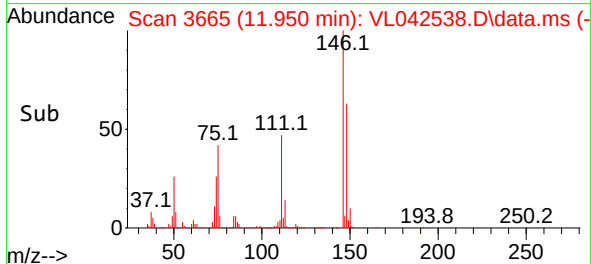
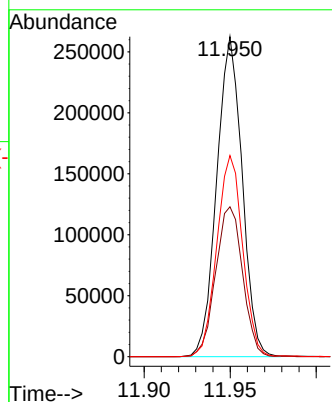
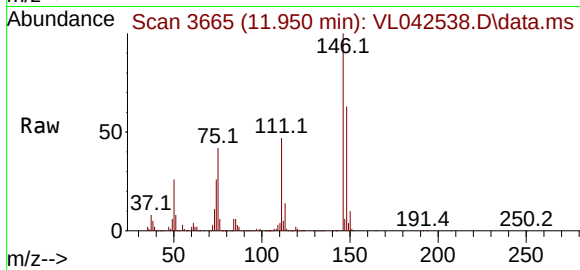
148 63.9 31.4 94.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025

Supervised By :Mahesh Dadoda 05/15/2025



#78

Hexachloro-1,3-Butadiene

Concen: 8.506 ppbv

RT: 13.882 min Scan# 4262

Delta R.T. 0.006 min

Lab File: VL042538.D

Acq: 14 May 2025 11:53

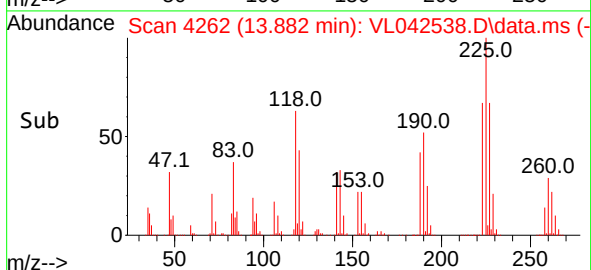
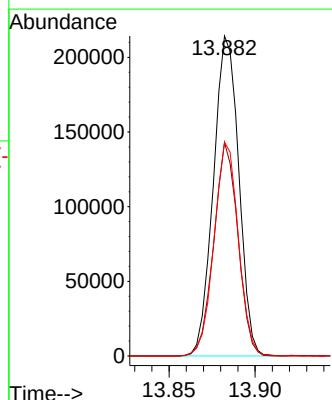
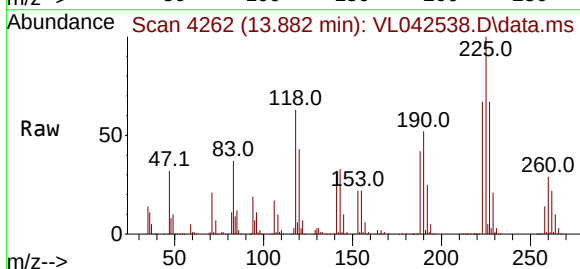
Tgt Ion:225 Resp: 219747

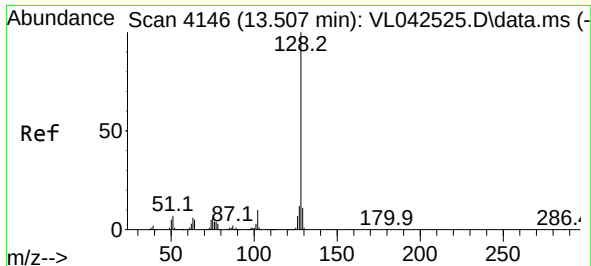
Ion Ratio Lower Upper

225 100

223 63.3 50.8 76.2

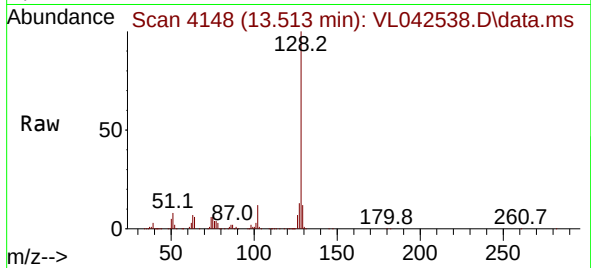
227 64.2 50.5 75.7





#79
Naphthalene
Concen: 13.557 ppbv
RT: 13.513 min Scan# 4146
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

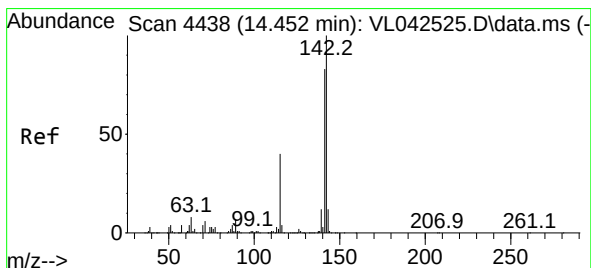
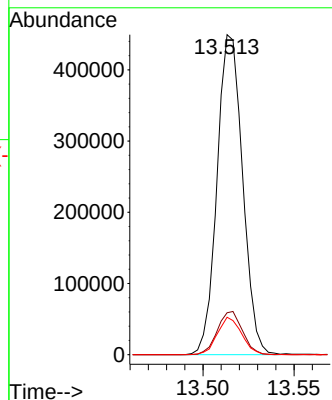
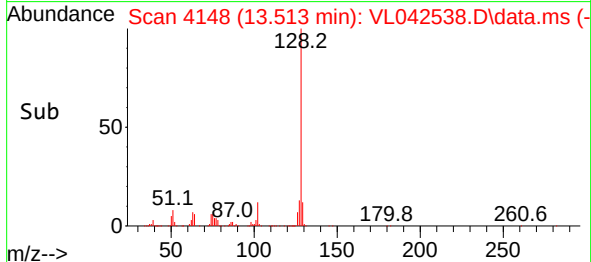
Instrument :
MSVOA_L
ClientSampleId :
VL0514ABS01



Tgt Ion:128 Resp: 43755
Ion Ratio Lower Upper
128 100
127 13.1 9.8 14.8
129 11.7 8.6 12.8

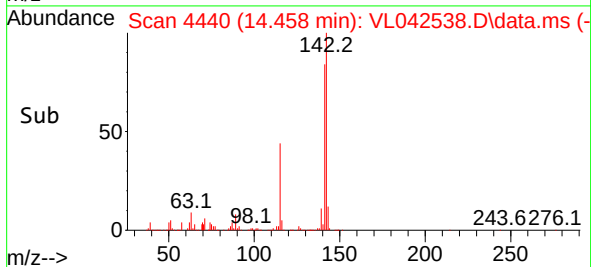
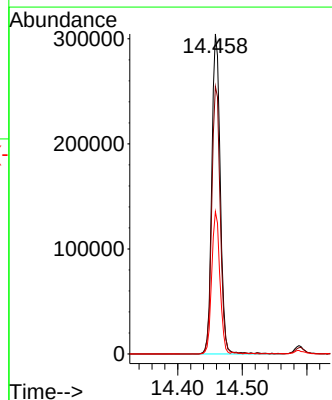
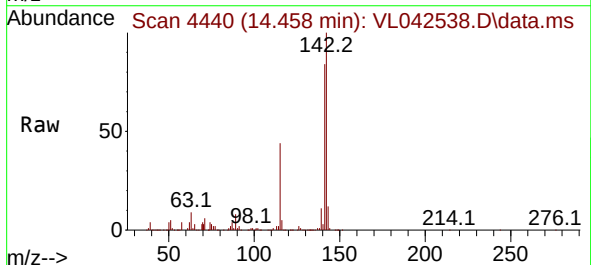
Manual Integrations
APPROVED

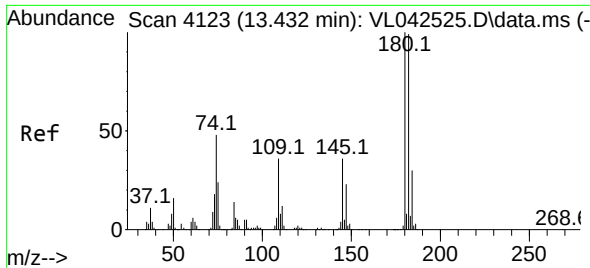
Reviewed By :Semsettin Yesilyurt 05/15/2025
Supervised By :Mahesh Dadoda 05/15/2025



#80
Naphthalene,2-methyl-
Concen: 14.972 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.006 min
Lab File: VL042538.D
Acq: 14 May 2025 11:53

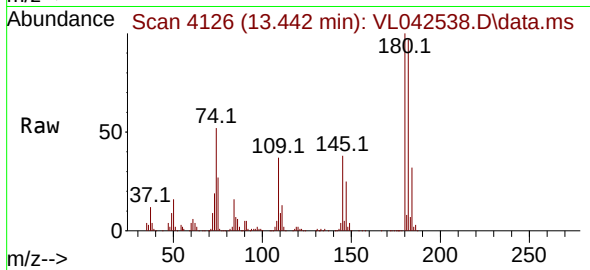
Tgt Ion:142 Resp: 278888
Ion Ratio Lower Upper
142 100
141 83.9 66.8 100.2
115 43.6 33.0 49.6





#81
 1,2,4-Trichlorobenzene
 Concen: 11.164 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.010 min
 Lab File: VL042538.D
 Acq: 14 May 2025 11:53

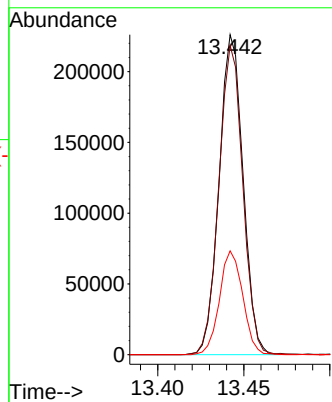
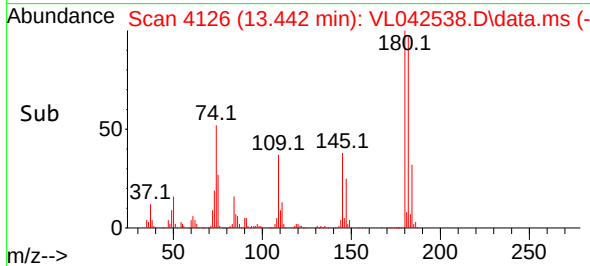
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0514ABS01



Tgt Ion:180 Resp: 21915
 Ion Ratio Lower Upper
 180 100
 182 96.7 76.6 114.8
 184 31.5 24.6 36.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/15/2025
 Supervised By :Mahesh Dadoda 05/15/2025



Manual Integration Report

Sequence:	VL051225	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042525.D	4-Methyl-2-Pentanone	SAM	5/14/2025 9:06:24 AM	MMDadoda	5/14/2025 12:32:27 PM	Peak Integrated by Software
VSTDICCC010	VL042525.D	m/p-Xylene	SAM	5/14/2025 9:06:24 AM	MMDadoda	5/14/2025 12:32:27 PM	Peak Integrated by Software
VSTDICCC001	VL042527.D	1,1,2-Trichloroethane	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICCC001	VL042527.D	1,2-Dibromoethane	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICCC001	VL042527.D	1,2-Dichloropropane	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICCC001	VL042527.D	1,4-Dioxane	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICCC001	VL042527.D	2,2,4-Trimethylpentane	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICCC001	VL042527.D	2-Hexanone	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICCC001	VL042527.D	4-Methyl-2-Pentanone	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICCC001	VL042527.D	Bromodichloromethane	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICCC001	VL042527.D	cis-1,3-Dichloropropene	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICCC001	VL042527.D	Cyclohexane	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICCC001	VL042527.D	Ethanol	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL051225	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VL042527.D	Ethyl Benzene	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICC001	VL042527.D	Heptane	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICC001	VL042527.D	m/p-Xylene	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICC001	VL042527.D	Methyl Methacrylate	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICC001	VL042527.D	t-1,3-Dichloropropene	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICC001	VL042527.D	Tetrachloroethene	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICC001	VL042527.D	Toluene	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICC001	VL042527.D	Trichloroethene	SAM	5/14/2025 9:07:09 AM	MMDadoda	5/14/2025 12:32:32 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	1,1,2-Trichloroethane	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	1,1-Dichloroethene	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	1,2-Dibromoethane	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	1,2-Dichloropropane	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	1,3,5-Trimethylbenzene	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL051225	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL042528.D	1,4-Dioxane	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	2,2,4-Trimethylpentane	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	2-Hexanone	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	4-Methyl-2-Pentanone	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	Acetone	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	Benzyl Chloride	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	Bromodichloromethane	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	Carbon Tetrachloride	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	cis-1,3-Dichloropropene	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	Cyclohexane	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	Dibromochloromethane	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	Ethyl Acetate	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	Heptane	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL051225	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL042528.D	m/p-Xylene	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	Methyl Methacrylate	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	n-propylbenzene	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	o-Xylene	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	Styrene	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	t-1,3-Dichloropropene	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	Tetrachloroethene	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	Tetrahydrofuran	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	Toluene	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.5	VL042528.D	Trichloroethene	SAM	5/14/2025 9:06:34 AM	MMDadoda	5/14/2025 12:32:36 PM	Peak Integrated by Software
VSTDICC0.1	VL042529.D	1,1,2,2-Tetrachloroethane	SAM	5/14/2025 9:06:53 AM	MMDadoda	5/14/2025 12:32:37 PM	Peak Integrated by Software
VSTDICC0.1	VL042529.D	1,2-Dibromoethane	SAM	5/14/2025 9:06:53 AM	MMDadoda	5/14/2025 12:32:37 PM	Peak Integrated by Software
VSTDICC0.1	VL042529.D	Carbon Tetrachloride	SAM	5/14/2025 9:06:53 AM	MMDadoda	5/14/2025 12:32:37 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL051225	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.1	VL042529.D	Naphthalene	SAM	5/14/2025 9:06:53 AM	MMDadoda	5/14/2025 12:32:37 PM	Peak Integrated by Software
VSTDICC0.1	VL042529.D	Tetrachloroethene	SAM	5/14/2025 9:06:53 AM	MMDadoda	5/14/2025 12:32:37 PM	Peak Integrated by Software
VSTDICC0.1	VL042529.D	Trichloroethene	SAM	5/14/2025 9:06:53 AM	MMDadoda	5/14/2025 12:32:37 PM	Peak Integrated by Software
VSTDICC0.03	VL042530.D	1,1,1-Trichloroethane	SAM	5/14/2025 9:07:15 AM	MMDadoda	5/14/2025 12:32:43 PM	Peak Integrated by Software
VSTDICC0.03	VL042530.D	1,1,2,2-Tetrachloroethane	SAM	5/14/2025 9:07:15 AM	MMDadoda	5/14/2025 12:32:43 PM	Peak Integrated by Software
VSTDICC0.03	VL042530.D	Carbon Tetrachloride	SAM	5/14/2025 9:07:15 AM	MMDadoda	5/14/2025 12:32:43 PM	Peak Integrated by Software
VSTDICC0.03	VL042530.D	Tetrachloroethene	SAM	5/14/2025 9:07:15 AM	MMDadoda	5/14/2025 12:32:43 PM	Peak Integrated by Software
VSTDICC0.03	VL042530.D	Trichloroethene	SAM	5/14/2025 9:07:15 AM	MMDadoda	5/14/2025 12:32:43 PM	Peak Integrated by Software
VSTDICC002	VL042532.D	1,1,2-Trichloroethane	SAM	5/14/2025 9:06:48 AM	MMDadoda	5/14/2025 12:32:46 PM	Peak Integrated by Software
VSTDICC002	VL042532.D	1,4-Dioxane	SAM	5/14/2025 9:06:48 AM	MMDadoda	5/14/2025 12:32:46 PM	Peak Integrated by Software
VSTDICC002	VL042532.D	2,2,4-Trimethylpentane	SAM	5/14/2025 9:06:48 AM	MMDadoda	5/14/2025 12:32:46 PM	Peak Integrated by Software
VSTDICC002	VL042532.D	Benzyl Chloride	SAM	5/14/2025 9:06:48 AM	MMDadoda	5/14/2025 12:32:46 PM	Peak Integrated by Software
VSTDICC002	VL042532.D	Chloroethane	SAM	5/14/2025 9:06:48 AM	MMDadoda	5/14/2025 12:32:46 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VL051225

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC002	VL042532.D	cis-1,3-Dichloropropene	SAM	5/14/2025 9:06:48 AM	MMDadoda	5/14/2025 12:32:46 PM	Peak Integrated by Software
VSTDICC002	VL042532.D	m/p-Xylene	SAM	5/14/2025 9:06:48 AM	MMDadoda	5/14/2025 12:32:46 PM	Peak Integrated by Software
VSTDICC002	VL042532.D	Methyl Methacrylate	SAM	5/14/2025 9:06:48 AM	MMDadoda	5/14/2025 12:32:46 PM	Peak Integrated by Software
VSTDICC002	VL042532.D	Styrene	SAM	5/14/2025 9:06:48 AM	MMDadoda	5/14/2025 12:32:46 PM	Peak Integrated by Software
VSTDICC002	VL042532.D	t-1,3-Dichloropropene	SAM	5/14/2025 9:06:48 AM	MMDadoda	5/14/2025 12:32:46 PM	Peak Integrated by Software
VSTDICC002	VL042532.D	Tetrahydrofuran	SAM	5/14/2025 9:06:48 AM	MMDadoda	5/14/2025 12:32:46 PM	Peak Integrated by Software
VSTDICC002	VL042532.D	Trichloroethene	SAM	5/14/2025 9:06:48 AM	MMDadoda	5/14/2025 12:32:46 PM	Peak Integrated by Software
VSTDICC015	VL042533.D	1,4-Dioxane	SAM	5/14/2025 9:07:21 AM	MMDadoda	5/14/2025 12:32:47 PM	Peak Integrated by Software
VSTDICC015	VL042533.D	m/p-Xylene	SAM	5/14/2025 9:07:21 AM	MMDadoda	5/14/2025 12:32:47 PM	Peak Integrated by Software
VSTDICV010	VL042534.D	m/p-Xylene	SAM	5/14/2025 9:06:44 AM	MMDadoda	5/14/2025 12:32:52 PM	Peak Integrated by Software
VSTDICV010	VL042534.D	Propene	SAM	5/14/2025 9:06:44 AM	MMDadoda	5/14/2025 12:32:52 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL051425	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042536.D	m/p-Xylene	SAM	5/15/2025 10:11:33 AM	MMDadoda	5/15/2025 2:31:03 PM	Peak Integrated by Software
VSTDCCC010	VL042536.D	Methyl Methacrylate	SAM	5/15/2025 10:11:33 AM	MMDadoda	5/15/2025 2:31:03 PM	Peak Integrated by Software
VSTDCCC010	VL042536.D	Propene	SAM	5/15/2025 10:11:33 AM	MMDadoda	5/15/2025 2:31:03 PM	Peak Integrated by Software
VL0514ABS01	VL042538.D	m/p-Xylene	SAM	5/15/2025 10:11:42 AM	MMDadoda	5/15/2025 2:31:05 PM	Peak Integrated by Software
Q2011-02	VL042539.D	Carbon Tetrachloride	SAM	5/15/2025 10:12:03 AM	MMDadoda	5/15/2025 2:31:08 PM	Peak Integrated by Software
Q2011-02	VL042539.D	Chlorodifluoromethane	SAM	5/15/2025 10:12:03 AM	MMDadoda	5/15/2025 2:31:08 PM	Peak Integrated by Software
Q2011-02	VL042539.D	Toluene	SAM	5/15/2025 10:12:03 AM	MMDadoda	5/15/2025 2:31:08 PM	Peak Integrated by Software
Q2011-01	VL042540.D	2-Hexanone	SAM	5/15/2025 10:12:20 AM	MMDadoda	5/15/2025 2:31:09 PM	Peak Integrated by Software
Q2011-01	VL042540.D	Heptane	SAM	5/15/2025 10:12:20 AM	MMDadoda	5/15/2025 2:31:09 PM	Peak Integrated by Software
Q2011-01	VL042540.D	Methylene Chloride	SAM	5/15/2025 10:12:20 AM	MMDadoda	5/15/2025 2:31:09 PM	Peak Integrated by Software
Q2011-01	VL042540.D	n-Butylbenzene	SAM	5/15/2025 10:12:20 AM	MMDadoda	5/15/2025 2:31:09 PM	Peak Integrated by Software
Q2011-01	VL042540.D	sec-Butylbenzene	SAM	5/15/2025 10:12:20 AM	MMDadoda	5/15/2025 2:31:09 PM	Peak Integrated by Software
Q2011-01	VL042540.D	Tetrachloroethene	SAM	5/15/2025 10:12:20 AM	MMDadoda	5/15/2025 2:31:09 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	vl051425	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2011-01	VL042540.D	Tetrahydrofuran	SAM	5/15/2025 10:12:20 AM	MMDadoda	5/15/2025 2:31:09 PM	Peak Integrated by Software
Q2037-02DUP	VL042542.D	2,2,4-Trimethylpentane	SAM	5/15/2025 10:12:26 AM	MMDadoda	5/15/2025 2:31:12 PM	Peak Integrated by Software
Q2037-02DUP	VL042542.D	Acetone	SAM	5/15/2025 10:12:26 AM	MMDadoda	5/15/2025 2:31:12 PM	Peak Integrated by Software
Q2037-02DUP	VL042542.D	Carbon Tetrachloride	SAM	5/15/2025 10:12:26 AM	MMDadoda	5/15/2025 2:31:12 PM	Peak Integrated by Software
Q2037-02DUP	VL042542.D	Chlorodifluoromethane	SAM	5/15/2025 10:12:26 AM	MMDadoda	5/15/2025 2:31:12 PM	Peak Integrated by Software
Q2037-02DUP	VL042542.D	Heptane	SAM	5/15/2025 10:12:26 AM	MMDadoda	5/15/2025 2:31:12 PM	Peak Integrated by Software
Q2037-02DUP	VL042542.D	n-propylbenzene	SAM	5/15/2025 10:12:26 AM	MMDadoda	5/15/2025 2:31:12 PM	Peak Integrated by Software
Q2037-02DUP	VL042542.D	Styrene	SAM	5/15/2025 10:12:26 AM	MMDadoda	5/15/2025 2:31:12 PM	Peak Integrated by Software
Q2037-02DUP	VL042542.D	Tetrachloroethene	SAM	5/15/2025 10:12:26 AM	MMDadoda	5/15/2025 2:31:12 PM	Peak Integrated by Software

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL051225

Review By	Semsettin Yesilyurt	Review On	5/14/2025 9:07:47 AM		
Supervise By	Maresh Dadoda	Supervise On	5/14/2025 12:32:58 PM		
SubDirectory	VL051225	HP Acquire Method	TO15AIR.M	HP Processing Method	VL051225AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2604				
Initial Calibration Stds	AP2610,AP2611,AP2612				
CCC					
Internal Standard/PEM	AP2604				
ICV/I.BLK	AP2613				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042524.D	12 May 2025 07:58	SY/MD	Ok
2	VSTDICCC010	VL042525.D	12 May 2025 08:57	SY/MD	Ok,M
3	VSTDICCC002	VL042526.D	12 May 2025 09:33	SY/MD	Not Ok
4	VSTDICCC001	VL042527.D	12 May 2025 10:07	SY/MD	Ok,M
5	VSTDICCC0.5	VL042528.D	12 May 2025 10:41	SY/MD	Ok,M
6	VSTDICCC0.1	VL042529.D	12 May 2025 11:15	SY/MD	Ok,M
7	VSTDICCC0.03	VL042530.D	12 May 2025 11:49	SY/MD	Ok,M
8	VSTDICCC010	VL042531.D	12 May 2025 12:22	SY/MD	Not Ok
9	VSTDICCC002	VL042532.D	12 May 2025 12:58	SY/MD	Ok,M
10	VSTDICCC015	VL042533.D	12 May 2025 14:28	SY/MD	Ok,M
11	VSTDICV010	VL042534.D	12 May 2025 16:10	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL051425

Review By	Semsettin Yesilyurt	Review On	5/15/2025 10:12:52 AM		
Supervise By	Mahesh Dadoda	Supervise On	5/15/2025 2:31:22 PM		
SubDirectory	VL051425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL051225AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2614			
Initial Calibration Stds		AP2610,AP2611,AP2612			
CCC		AP2616			
Internal Standard/PEM		AP2614			
ICV/I.BLK		AP2613			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042535.D	14 May 2025 09:38	SY/MD	Ok
2	VSTDCCC010	VL042536.D	14 May 2025 10:23	SY/MD	Ok,M
3	VL0514ABL01	VL042537.D	14 May 2025 11:09	SY/MD	Ok
4	VL0514ABS01	VL042538.D	14 May 2025 11:53	SY/MD	Ok,M
5	Q2011-02	VL042539.D	14 May 2025 12:40	SY/MD	Ok,M
6	Q2011-01	VL042540.D	14 May 2025 13:12	SY/MD	Ok,M
7	Q2037-02	VL042541.D	14 May 2025 14:15	SY/MD	Ok,M
8	Q2037-02DUP	VL042542.D	14 May 2025 14:50	SY/MD	Ok,M
9	Q2037-01	VL042543.D	14 May 2025 15:22	SY/MD	Ok,M
10	Q2037-01DL	VL042544.D	14 May 2025 15:54	SY/MD	Not Ok

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL051225

Review By	Semsettin Yesilyurt	Review On	5/14/2025 9:07:47 AM
Supervise By	Maresh Dadoda	Supervise On	5/14/2025 12:32:58 PM
SubDirectory	VL051225	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL051225AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2604		
Initial Calibration Stds	AP2610,AP2611,AP2612		
CCC			
Internal Standard/PEM	AP2604		
ICV/I.BLK	AP2613		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	Sampled	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042524.D	12 May 2025 07:58		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042525.D	12 May 2025 08:57		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042526.D	12 May 2025 09:33	Not used	SY/MD	Not Ok
4	VSTDICC001	VSTDICC001	VL042527.D	12 May 2025 10:07	Method fail for comp.#9,61,79,80	SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042528.D	12 May 2025 10:41		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042529.D	12 May 2025 11:15		SY/MD	Ok,M
7	VSTDICC0.03	VSTDICC0.03	VL042530.D	12 May 2025 11:49		SY/MD	Ok,M
8	VSTDICCC010	VSTDICCC010	VL042531.D	12 May 2025 12:22	Not used	SY/MD	Not Ok
9	VSTDICC002	VSTDICC002	VL042532.D	12 May 2025 12:58		SY/MD	Ok,M
10	VSTDICC015	VSTDICC015	VL042533.D	12 May 2025 14:28		SY/MD	Ok,M
11	VSTDICV010	ICVVL051225	VL042534.D	12 May 2025 16:10	ICV Failed for comp. #51,61,66,79,80,81	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL051425

Review By	Semsettin Yesilyurt	Review On	5/15/2025 10:12:52 AM
Supervise By	Maresh Dadoda	Supervise On	5/15/2025 2:31:22 PM
SubDirectory	VL051425	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL051225AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2614
Initial Calibration Stds	AP2610,AP2611,AP2612
CCC	AP2616
Internal Standard/PEM	AP2614
ICV/I.BLK	AP2613
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	Sampled	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042535.D	14 May 2025 09:38		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042536.D	14 May 2025 10:23		SY/MD	Ok,M
3	VL0514ABL01	VL0514ABL01	VL042537.D	14 May 2025 11:09		SY/MD	Ok
4	VL0514ABS01	VL0514ABS01	VL042538.D	14 May 2025 11:53		SY/MD	Ok,M
5	Q2011-02	IA1	VL042539.D	14 May 2025 12:40		SY/MD	Ok,M
6	Q2011-01	SV1	VL042540.D	14 May 2025 13:12		SY/MD	Ok,M
7	Q2037-02	IA1	VL042541.D	14 May 2025 14:15		SY/MD	Ok,M
8	Q2037-02DUP	IA1DUP	VL042542.D	14 May 2025 14:50		SY/MD	Ok,M
9	Q2037-01	SV1	VL042543.D	14 May 2025 15:22		SY/MD	Ok,M
10	Q2037-01DL	SV1DL	VL042544.D	14 May 2025 15:54	Not Required	SY/MD	Not Ok

M : Manual Integration

Client Contact Information				Bottle Order ID : B2505018				Courier : FGALDUN				<u>2</u> of <u>2</u> COCs			
Client ID : GFEL01				Project ID : 10 Eldridge St.				Sampler Name(s) : FRANK GALDUN				Analysis		Matrix	
Customer : GFE LLC Name : Address : 58 Nokomis Ave				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified							
				Phone Number : 646-542-3465											
				Fax Number : 973-334-1692											
				Site Details: 12 MAPLEWOOD ST. MALDEN, MA											
City : Lake Hiawatha				Analysis Turnaround Time 3 DAY				Data Package Type : RESULTS ONLY							
State : NJ				Standard : 10 business days OR											
Zip Code : 07034				Rush (Specify): 3 Days				EDD Type : PDF							
Country :															

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor Ambient Air	Soil Gas
IA1	5/12/25	8:06	10:06	OVER 30	S	63	63	-30	-5.5	10525	10599	6 L	50	VL042330.D	1	1	

Temperature (Fahrenheit)				
	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)				
	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

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

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

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.0

Sampling site (State):

Quick Connector required : NO

Canisters Shipped by: <u>Sam</u>	Date/Time: <u>05/12/25</u>	Canisters Received by: <u>Sam</u>	Date/Time: <u>5-12-25 0720</u>
Samples Relinquished by: <u>Sam</u>	Date/Time: <u>5/12/25</u>	Received by: <u>Sam</u>	Date/Time: <u>5-12-25 0720</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:

B2505018 - 2

Client Contact Information				Bottle Order ID : B2505018				Courier : F GALDUN				1 of 2 COCs			
Client ID : GFEL01				Project ID : 10 Eldridge St.				Sampler Name(s) : FRANK GALDUN				Analysis		Matrix	
Customer Name : GFE LLC Address : 58 Nokomis Ave				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified							
				Phone Number : 646-542-3465											
				Fax Number : 973-334-1692											
				Site Details: 12 MAPLEWOOD ST. MALDEN, MA											
City : Lake Hiawatha				Analysis Turnaround Time 3 DAY				Data Package Type : RESULTS ONLY							
State : NJ				Standard : 10 business days OR											
Zip Code : 07034				Rush (Specify): 3 Days				EDD Type : PDF							
Country :															

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas
SV1	5/12/25	8:12	10:12	OVER 30	5	63	63	-30	-7.1	10579	10154	6 L	50	VL042399.D	1	1

Temperature (Fahrenheit)				
	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)				
	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

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

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

Please follow the Instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: **0.0**

Sampling site (State):

Quick Connector required : **No**

Canisters Shipped by:	Date/Time: 5/12/25	Canisters Received by:	Date/Time: 5-12-25 0700
Samples Relinquished by:	Date/Time: 5/12/25	Received by:	Date/Time: 5-12-25 0700
Relinquished by:	Date/Time:	Received by:	Date/Time:

New Jersey Department of Environmental Protection

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

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

Laboratory: Chemtech

Location: 284 Sheffield Street, Mountainside, NJ 7092

~~NAME~~

Title: Sample Custodian

Field Sample Seal No.: Q2011

Date Broken 5/12/2025

Military Time Seal Broken: 07:00:00

Case No.: 12 Maplewood St, Malden

Analytical Parameter/Fraction MOCMS Group2

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q2011-01	SV1		
Q2011-02	1A1		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
5/12	1105	Signature Printed Name <i>GONGE N.</i>	Signature Printed Name <i>Sennett Jenkins</i>	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

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

Analyst Signature: [Signature]

Supervisor Signature: 

Pressure Gauge ID: K755971

Date	Sample Number	Canister #	Initial Pressure psia	Initial Pressure Hg	Final Pressure psia	Final Pressure Hg	Dilution Factor	Comment
04/26/15	Q1927-01	10197	10.9	-7.8				sq
	Q1927-02	10267	12.0	-5.5				sq
	Q1527-03	10283	11.4	-6.7				sq
	Q1927-04	10320	11.8	-5.9				
	Q1927-05	10445	11.0	-7.5				
	Q1927-06	10607	13.6	-2.2				
04/28/25	Q1908-01	10598	11.6	-6.3				sq
	Q1908-02	10595	12.0	-5.5				
	Q1908-03	10297	12.2	-5.1				
05/14/15	Q2011-01	10154	11.2	-7.1				sq
	Q2011-02	10599	12.0	-5.5				

Order ID : Q2011

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
05/12/2025	B2505018	Q2011-02	-5.5	10599	6 L	10525		C2504007	VL042330.D Seq :VL041525 TUNE : VL042325.D ICAL : VL042177.D CCAL : VL042326.D MB : VL042327.D
05/12/2025	B2505018	Q2011-01	-7.1	10154	6 L	10579		C2504008	VL042399.D Seq :VL042125 TUNE : VL042394.D ICAL : VL042354.D CCAL : VL042395.D MB : VL042396.D

10154

71

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

Client Sample ID #: **SV1**
Client Name: **GFE**
Project Name: **MARTINWOOD ST**
Date: **5/9**
Analysis: **TO-15**
Comments: **TO-15**

Storage Location: VOA Lab
Sample: Q2011-01
Cust #: SV1

10154

10155

55

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

Client Sample ID #: **IA1**
Client Name: **GFE**
Project Name: **MARTINWOOD ST**
Date: **5/9**
Analysis: **TO-15**
Comments: **TO-15**

Storage Location: VOA Lab
Sample: Q2011-02
Cust #: IA1

10155