

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043177.D
 Acq On : 06 Nov 2025 20:35
 Operator : SY/MD
 Sample : Q3557-04 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 141-SG-1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025

Quant Time: Nov 07 00:28:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

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

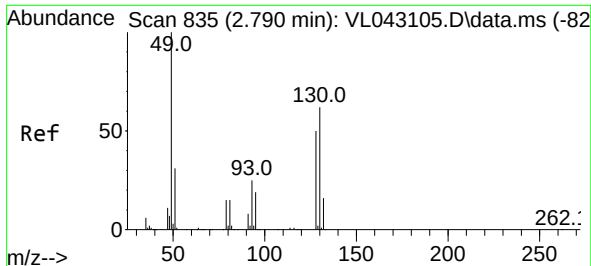
Internal Standards						
1) Bromochloromethane	2.784	49	130758	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	364794	10.000	ppbv	-0.01
55) Chlorobenzene-d5	8.872	117	304142	10.000	ppbv	-0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	234974	9.940	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.400%
Target Compounds						
2) Dichlorodifluoromethane	1.496	85	9913	0.533	ppbv	92
4) Chloromethane	1.531	50	914	0.124	ppbv #	72
9) Propene	1.486	41	5549	0.622	ppbv	86
11) Trichlorofluoromethane	1.878	101	2531m	0.139	ppbv	
13) Ethanol	1.719	45	28888	8.755	ppbv	99
15) Acetone	1.832	43	79867	4.532	ppbv	99
19) Isopropyl Alcohol	1.884	45	8294	0.756	ppbv #	1
20) Methylene Chloride	2.062	84	3197	0.459	ppbv #	79
26) Hexane	2.823	57	5600	0.278	ppbv #	39
29) Chloroform	2.846	83	10548	0.361	ppbv	93
34) 2-Butanone	2.554	43	12160	0.496	ppbv	94
35) Carbon Tetrachloride	3.758	117	931m	0.035	ppbv	
53) Toluene	6.924	91	5111m	0.125	ppbv	

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

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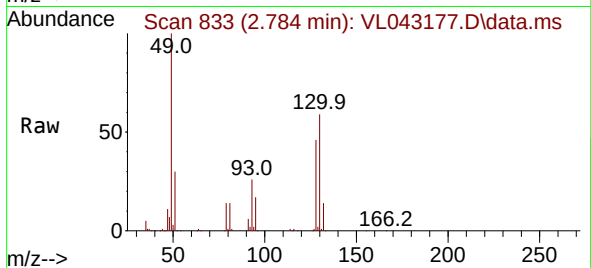
Chromatogram plot showing Abundance vs Time (min). The y-axis ranges from 0 to 5,000,000. The x-axis ranges from 1.00 to 21.00 minutes. Major peaks are labeled with chemical names and their retention times.

Retention Time (min)	Chemical Name	Approximate Abundance
1.50	Chloromethane, I	4,500,000
1.80	1,1-Dichloroethane, T	150,000
2.00	Ethyl Chloride, I	100,000
2.20	Methylene Chloride, I	150,000
2.80	2-Butanone, T	100,000
3.00	Chloroform, T	100,000
3.20	Bromochloromethane, I	100,000
3.80	Carbon Tetrachloride, T	100,000
4.00	1,4-Difluorobenzene, I	600,000
7.00	Toluene, T	400,000
9.00	Chlorobenzene-d5, I	700,000
10.50	1-Bromo-4-Fluorobenzene, S	900,000
12.00		4,300,000
13.50		1,800,000



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.006 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

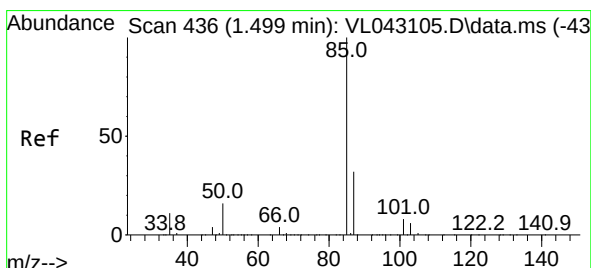
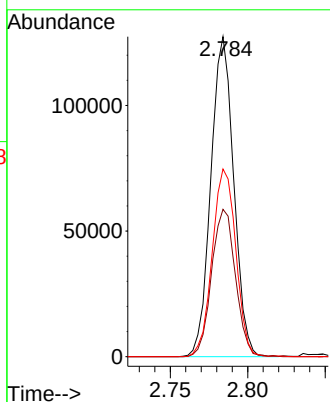
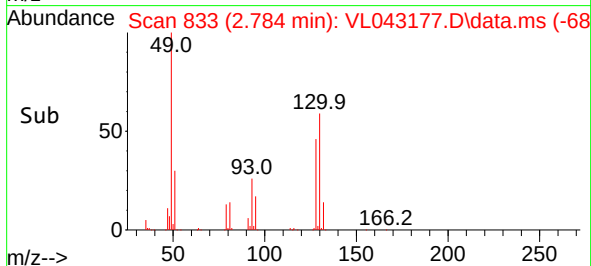
Instrument :
MSVOA_L
ClientSampleId :
141-SG-1



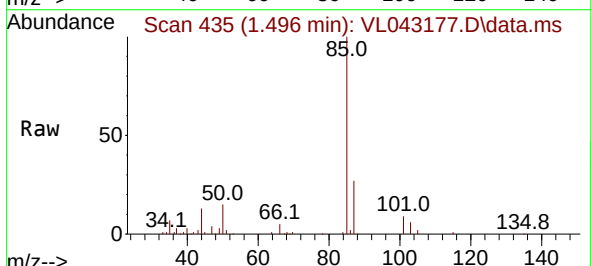
Tgt Ion: 49 Resp: 130758
Ion Ratio Lower Upper
49 100
128 47.9 24.4 73.4
130 60.5 31.0 93.0

Manual Integrations
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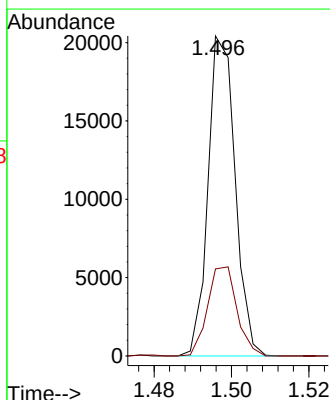
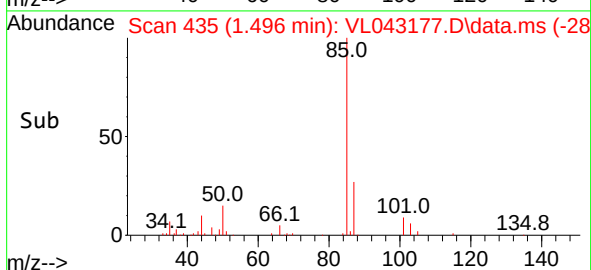
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

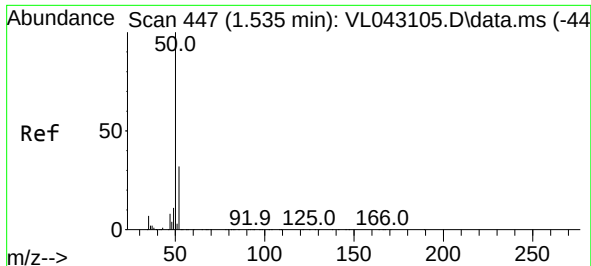


#2
Dichlorodifluoromethane
Concen: 0.533 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35



Tgt Ion: 85 Resp: 9913
Ion Ratio Lower Upper
85 100
87 27.2 25.3 37.9





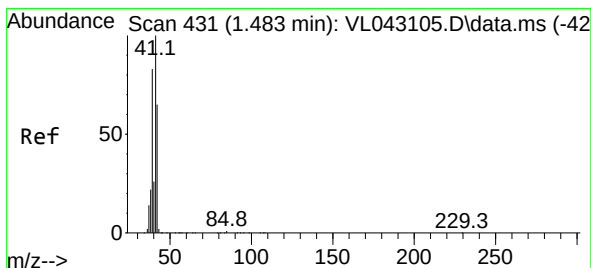
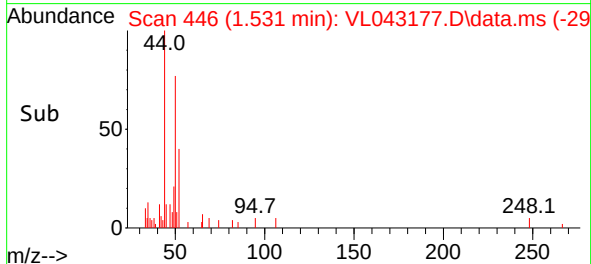
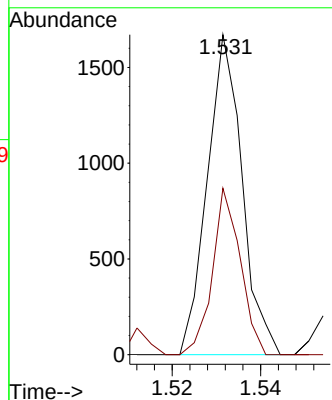
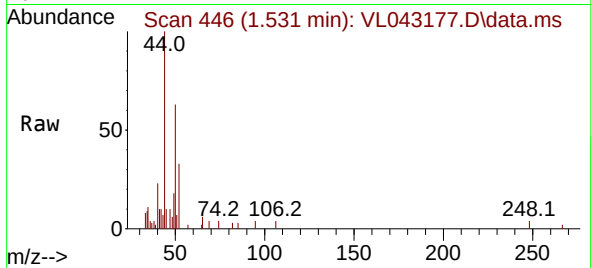
#4
Chloromethane
Concen: 0.124 ppbv
RT: 1.531 min Scan# 447
Delta R.T. -0.003 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

Instrument :
MSVOA_L
ClientSampleId :
141-SG-1

Tgt Ion: 50 Resp: 914
Ion Ratio Lower Upper
50 100
52 46.8 25.2 37.8

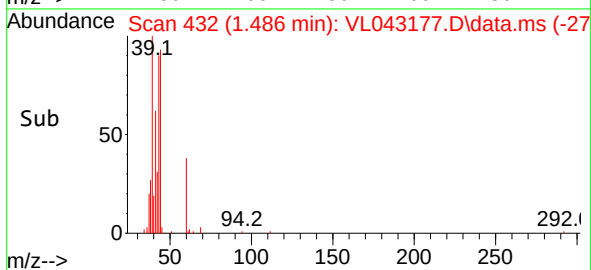
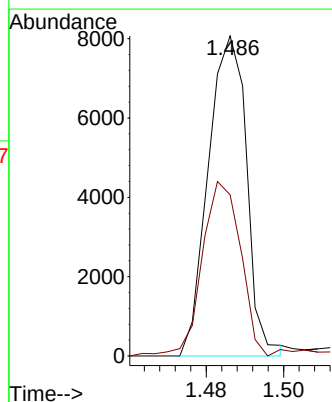
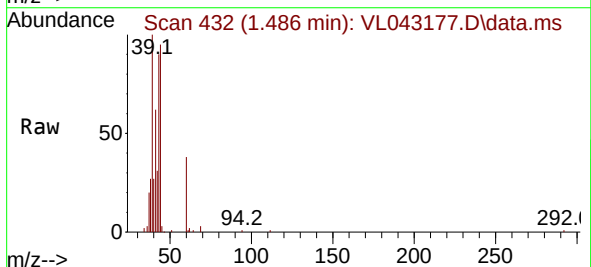
Manual Integrations
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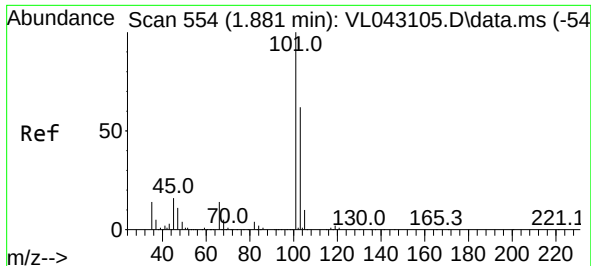
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#9
Propene
Concen: 0.622 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

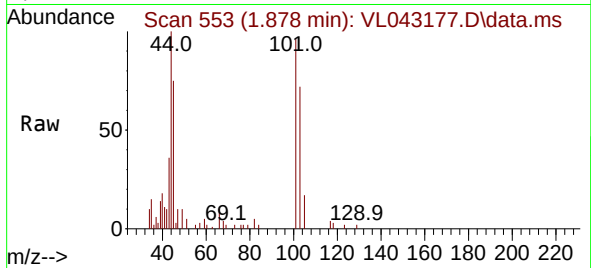
Tgt Ion: 41 Resp: 5549
Ion Ratio Lower Upper
41 100
42 57.3 55.1 82.7





#11
Trichlorofluoromethane
Concen: 0.139 ppbv m
RT: 1.878 min Scan# 504
Delta R.T. -0.003 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

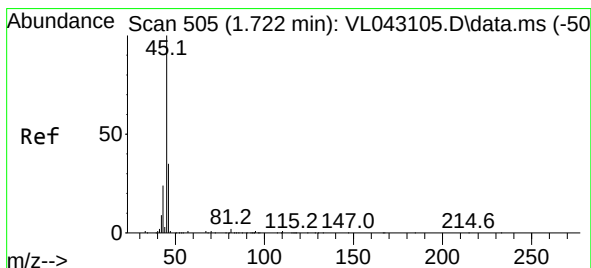
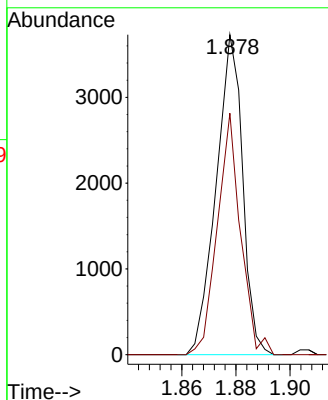
Instrument :
MSVOA_L
ClientSampleId :
141-SG-1



Tgt Ion:101 Resp: 253
Ion Ratio Lower Upper
101 100
103 75.4 49.3 73.9

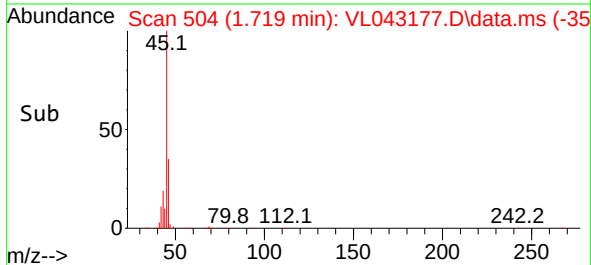
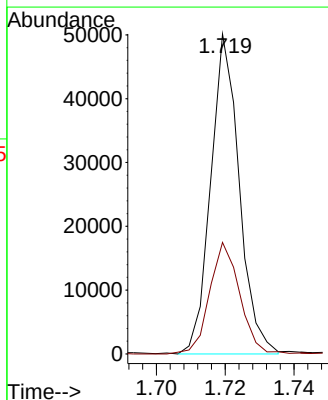
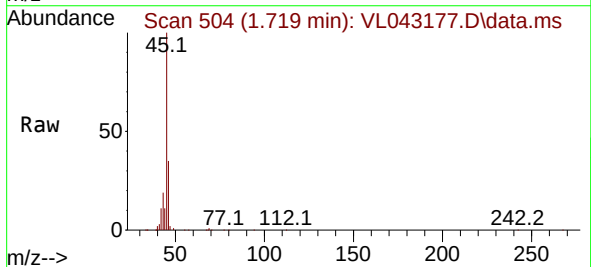
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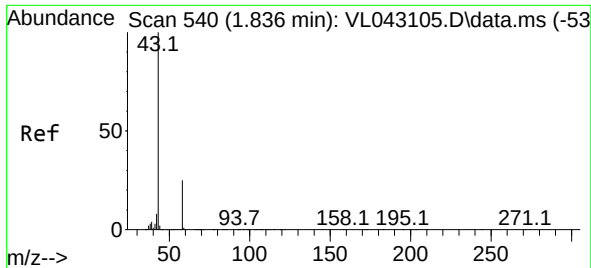
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#13
Ethanol
Concen: 8.755 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.003 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

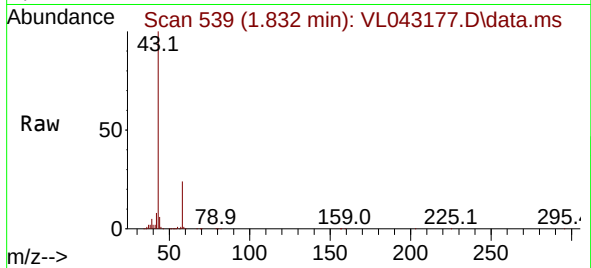
Tgt Ion: 45 Resp: 28888
Ion Ratio Lower Upper
45 100
46 37.4 14.7 58.9





#15
Acetone
Concen: 4.532 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

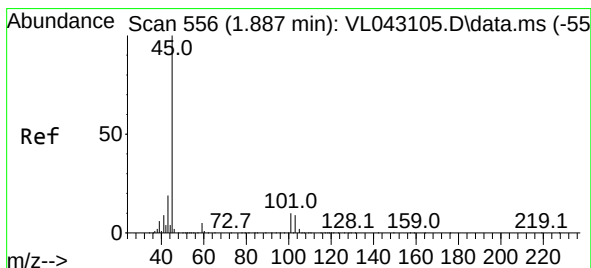
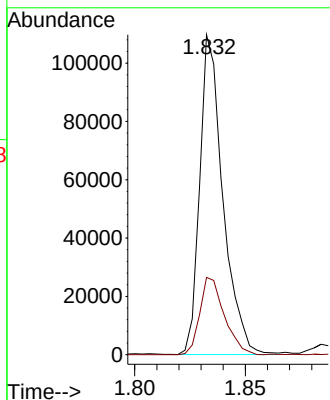
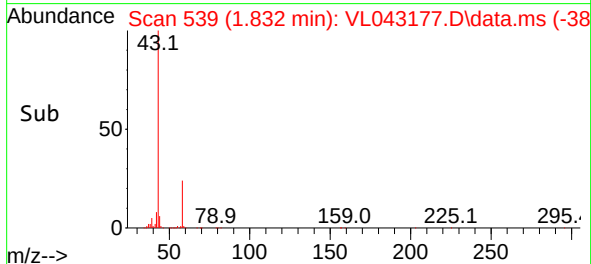
Instrument :
MSVOA_L
ClientSampleId :
141-SG-1



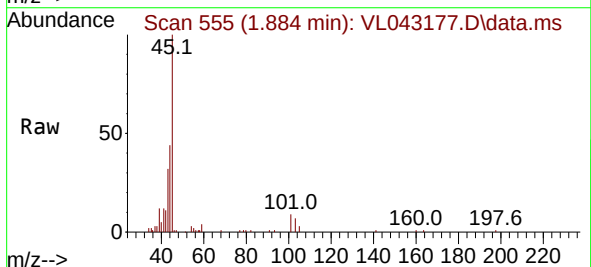
Tgt Ion: 43 Resp: 7986
Ion Ratio Lower Upper
43 100
58 25.7 20.8 31.2

Manual Integrations
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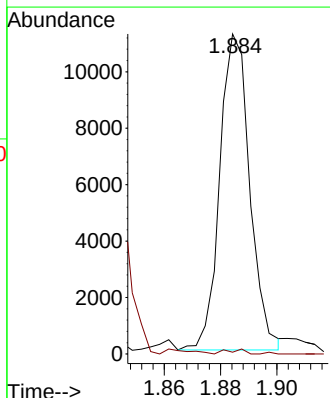
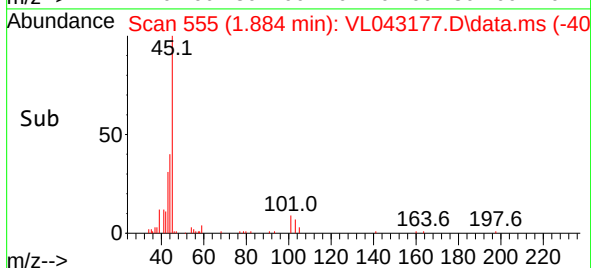
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

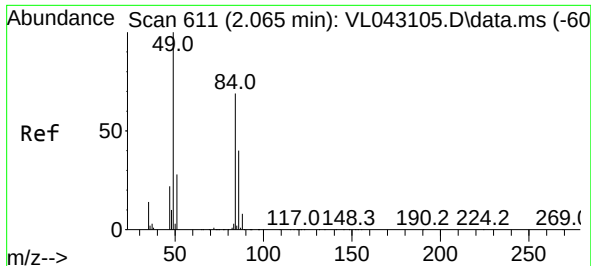


#19
Isopropyl Alcohol
Concen: 0.756 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.003 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35



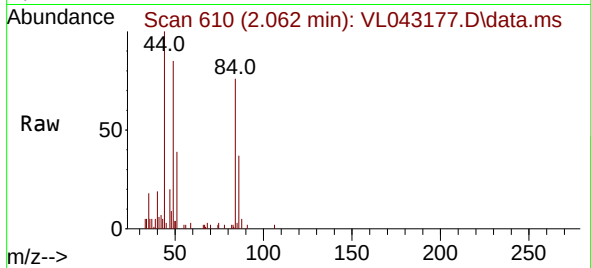
Tgt Ion: 45 Resp: 8294
Ion Ratio Lower Upper
45 100
58 248.3 31.3 46.9#





#20
Methylene Chloride
Concen: 0.459 ppbv
RT: 2.062 min Scan# 611
Delta R.T. -0.003 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

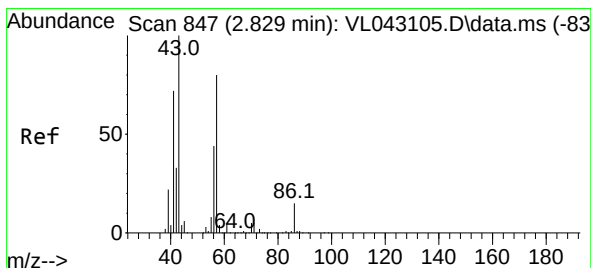
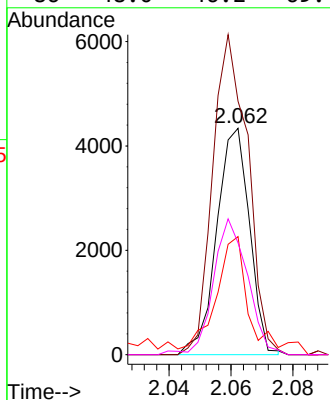
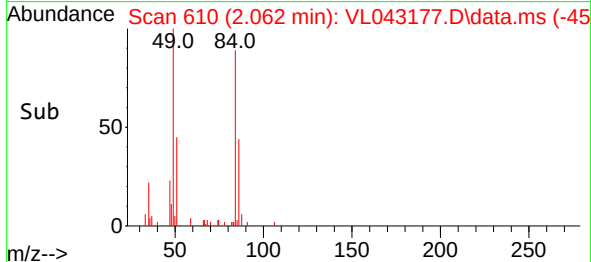
Instrument :
MSVOA_L
ClientSampleId :
141-SG-1



Tgt Ion: 84 Resp: 3197
Ion Ratio Lower Upper
84 100
49 111.9 116.6 175.0#
51 49.6 34.8 52.2#
86 48.0 46.2 69.4#

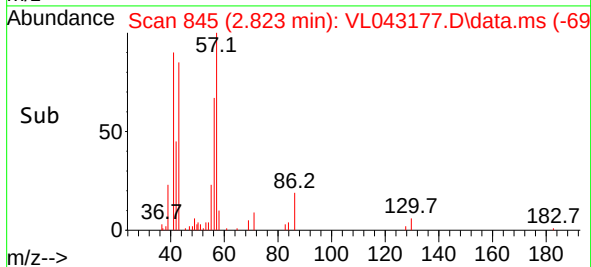
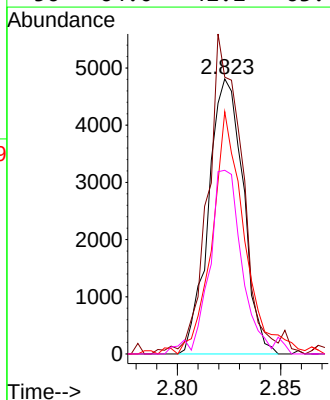
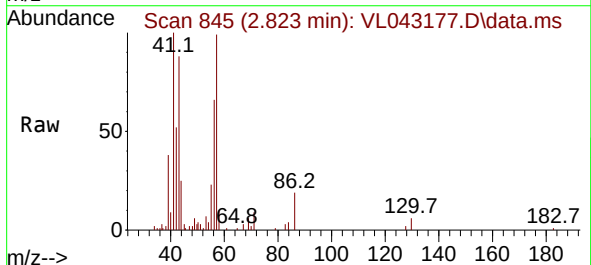
Manual Integrations
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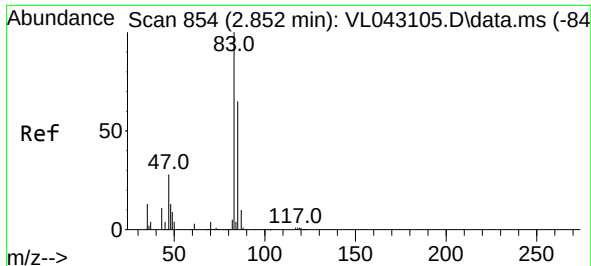
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#26
Hexane
Concen: 0.278 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.006 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

Tgt Ion: 57 Resp: 5600
Ion Ratio Lower Upper
57 100
41 115.3 71.4 107.0#
43 84.3 178.5 267.7#
56 64.0 42.2 63.4#





#29

Chloroform

Concen: 0.361 ppbv

RT: 2.846 min Scan# 81

Delta R.T. -0.006 min

Lab File: VL043177.D

Acq: 06 Nov 2025 20:35

Instrument :

MSVOA_L

ClientSampleId :

141-SG-1

Tgt Ion: 83 Resp: 10548

Ion Ratio Lower Upper

83 100

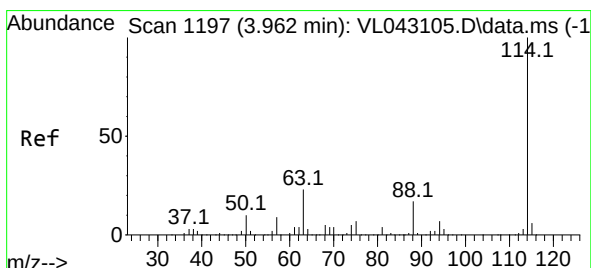
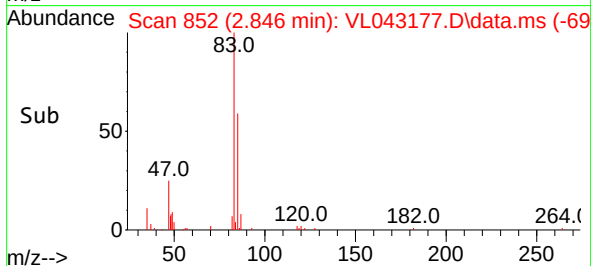
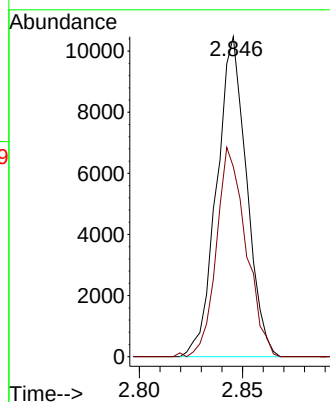
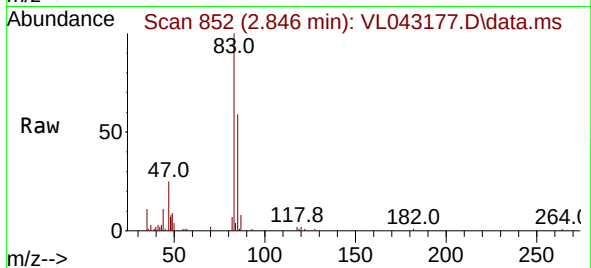
85 59.4 51.8 77.6

Manual Integrations

APPROVED

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Supervised By :Mahesh Dadoda 11/10/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.013 min

Lab File: VL043177.D

Acq: 06 Nov 2025 20:35

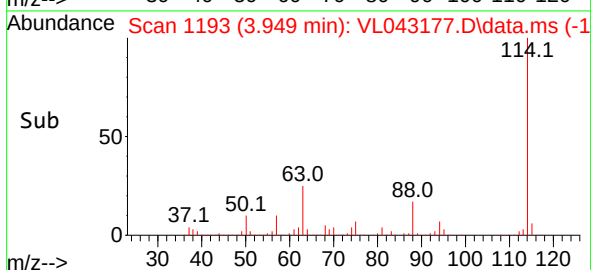
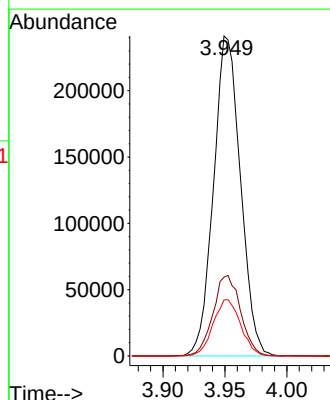
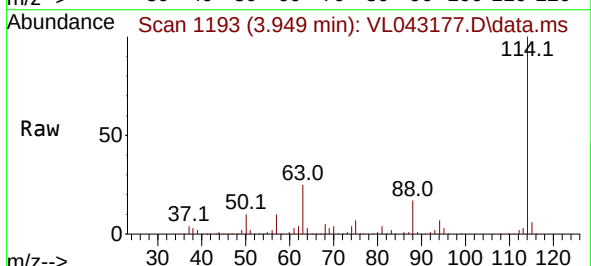
Tgt Ion:114 Resp: 364794

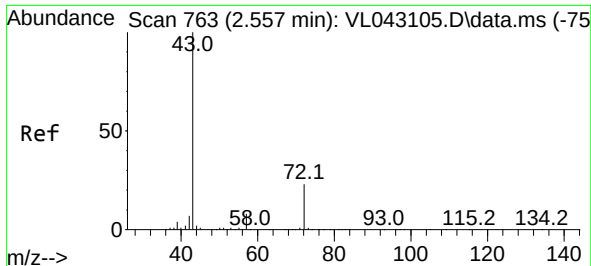
Ion Ratio Lower Upper

114 100

63 25.8 19.3 28.9

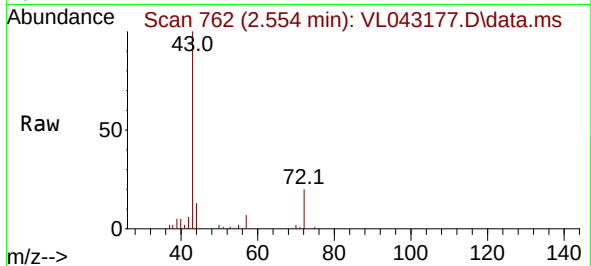
88 18.0 13.9 20.9





#34
2-Butanone
Concen: 0.496 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.003 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

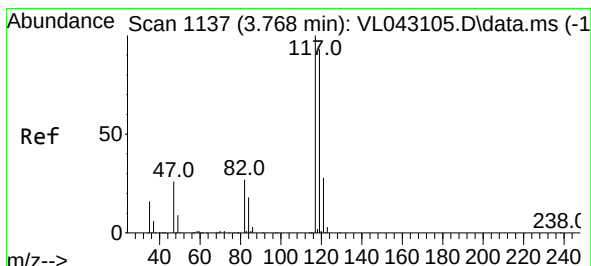
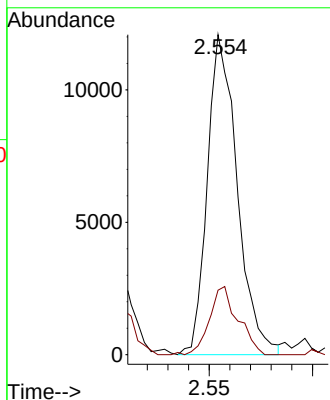
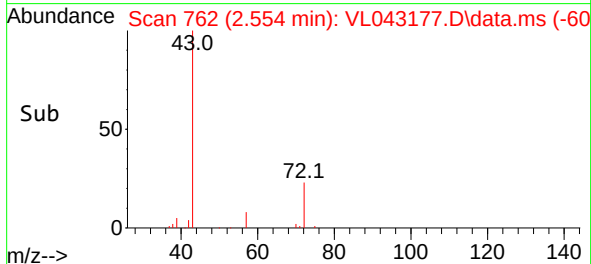
Instrument :
MSVOA_L
ClientSampleId :
141-SG-1



Tgt Ion: 43 Resp: 12160
Ion Ratio Lower Upper
43 100
72 20.2 18.4 27.6

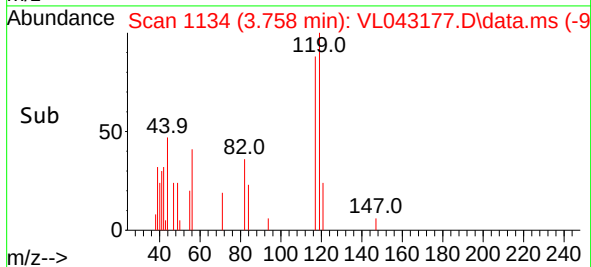
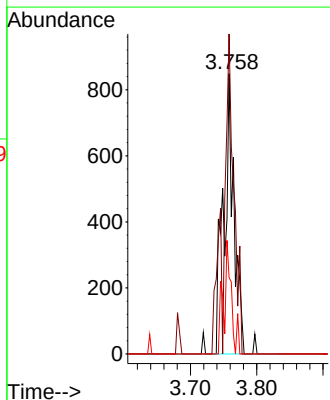
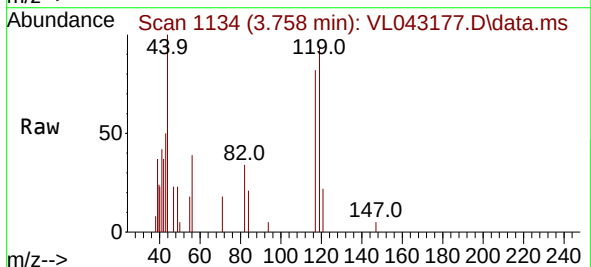
Manual Integrations
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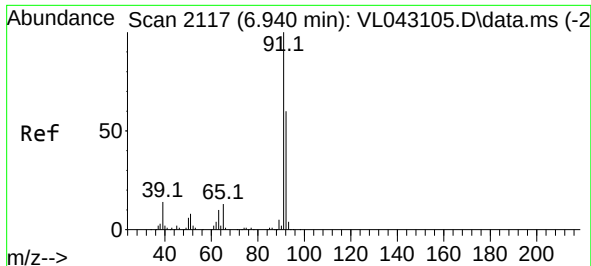
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#35
Carbon Tetrachloride
Concen: 0.035 ppbv m
RT: 3.758 min Scan# 1134
Delta R.T. -0.010 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

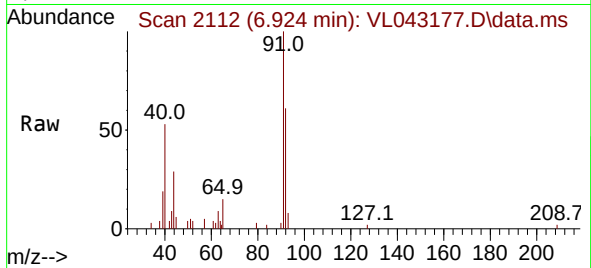
Tgt Ion:117 Resp: 931
Ion Ratio Lower Upper
117 100
119 114.1 74.1 111.1#
121 27.2 22.2 33.2





#53
Toluene
Concen: 0.125 ppbv m
RT: 6.924 min Scan# 2117
Delta R.T. -0.016 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

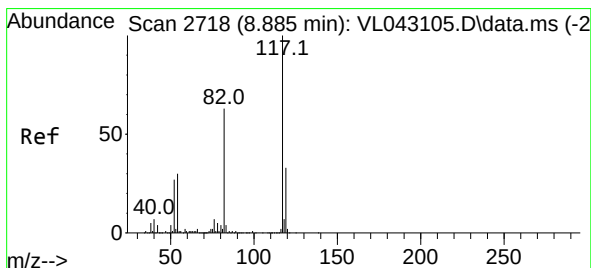
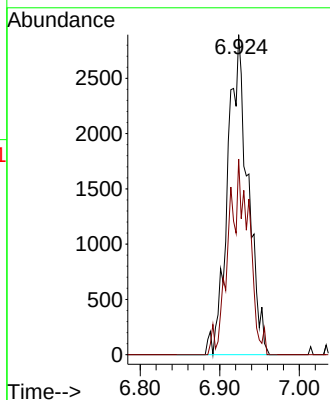
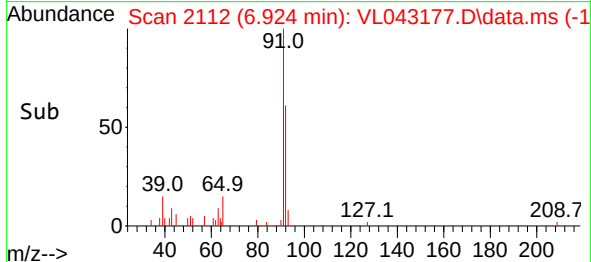
Instrument :
MSVOA_L
ClientSampleId :
141-SG-1



Tgt Ion: 91 Resp: 511
Ion Ratio Lower Upper
91 100
92 0.0 48.8 73.2

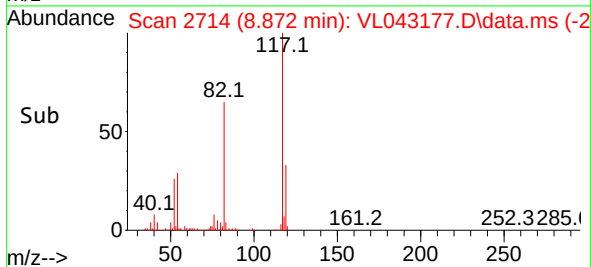
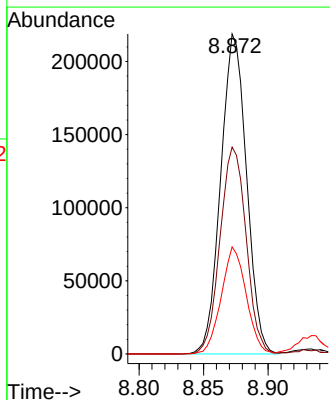
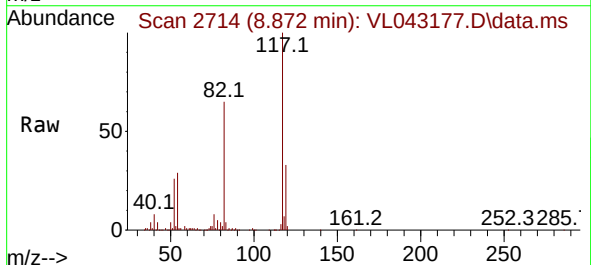
Manual Integrations
APPROVED

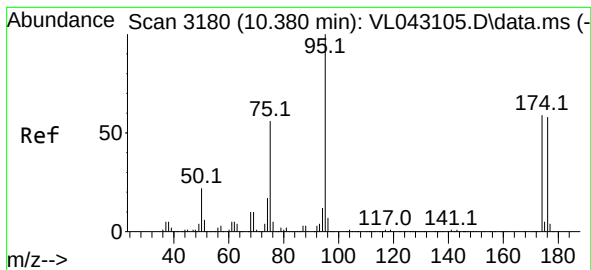
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.013 min
Lab File: VL043177.D
Acq: 06 Nov 2025 20:35

Tgt Ion:117 Resp: 304142
Ion Ratio Lower Upper
117 100
82 65.3 53.8 80.8
119 32.3 25.4 38.0





#68

1-Bromo-4-Fluorobenzene

Concen: 9.940 ppbv

RT: 10.371 min Scan# 31

Delta R.T. -0.010 min

Lab File: VL043177.D

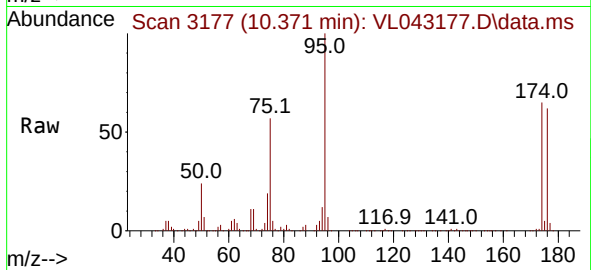
Acq: 06 Nov 2025 20:35

Instrument :

MSVOA_L

ClientSampleId :

141-SG-1



Tgt Ion: 95 Resp: 234974

Ion Ratio Lower Upper

95 100

174 63.6 48.3 72.5

175 4.6 3.8 5.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025

Supervised By :Mahesh Dadoda 11/10/2025

