

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043176.D
 Acq On : 06 Nov 2025 20:03
 Operator : SY/MD
 Sample : Q3556-04 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 131-SG-2

Manual Integrations
 APPROVED

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

Quant Time: Nov 07 00:28:00 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	130480	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	360019	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	309583	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	240054	9.976	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	4362	0.235	ppbv	99
3) Chlorodifluoromethane	1.476	51	2918m	0.145	ppbv	
9) Propene	1.486	41	3526	0.396	ppbv	94
11) Trichlorofluoromethane	1.877	101	2266	0.125	ppbv	94
13) Ethanol	1.722	45	34752	10.555	ppbv	100
15) Acetone	1.835	43	111827	6.359	ppbv	91
17) tert-Butyl alcohol	2.039	59	3728	0.154	ppbv #	76
19) Isopropyl Alcohol	1.887	45	6484	0.592	ppbv #	1
20) Methylene Chloride	2.062	84	4427	0.637	ppbv #	86
26) Hexane	2.826	57	7014	0.349	ppbv #	39
29) Chloroform	2.845	83	19971	0.686	ppbv	99
34) 2-Butanone	2.557	43	19902	0.822	ppbv	99
35) Carbon Tetrachloride	3.768	117	806m	0.031	ppbv	
36) Benzene	3.654	78	52069	1.536	ppbv	97
50) 4-Methyl-2-Pentanone	5.771	43	5146m	0.154	ppbv	
52) Tetrachloroethene	8.221	164	1295m	0.106	ppbv	
53) Toluene	6.927	91	4087m	0.102	ppbv	
62) Isopropylbenzene	10.536	105	35300	0.467	ppbv	97

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

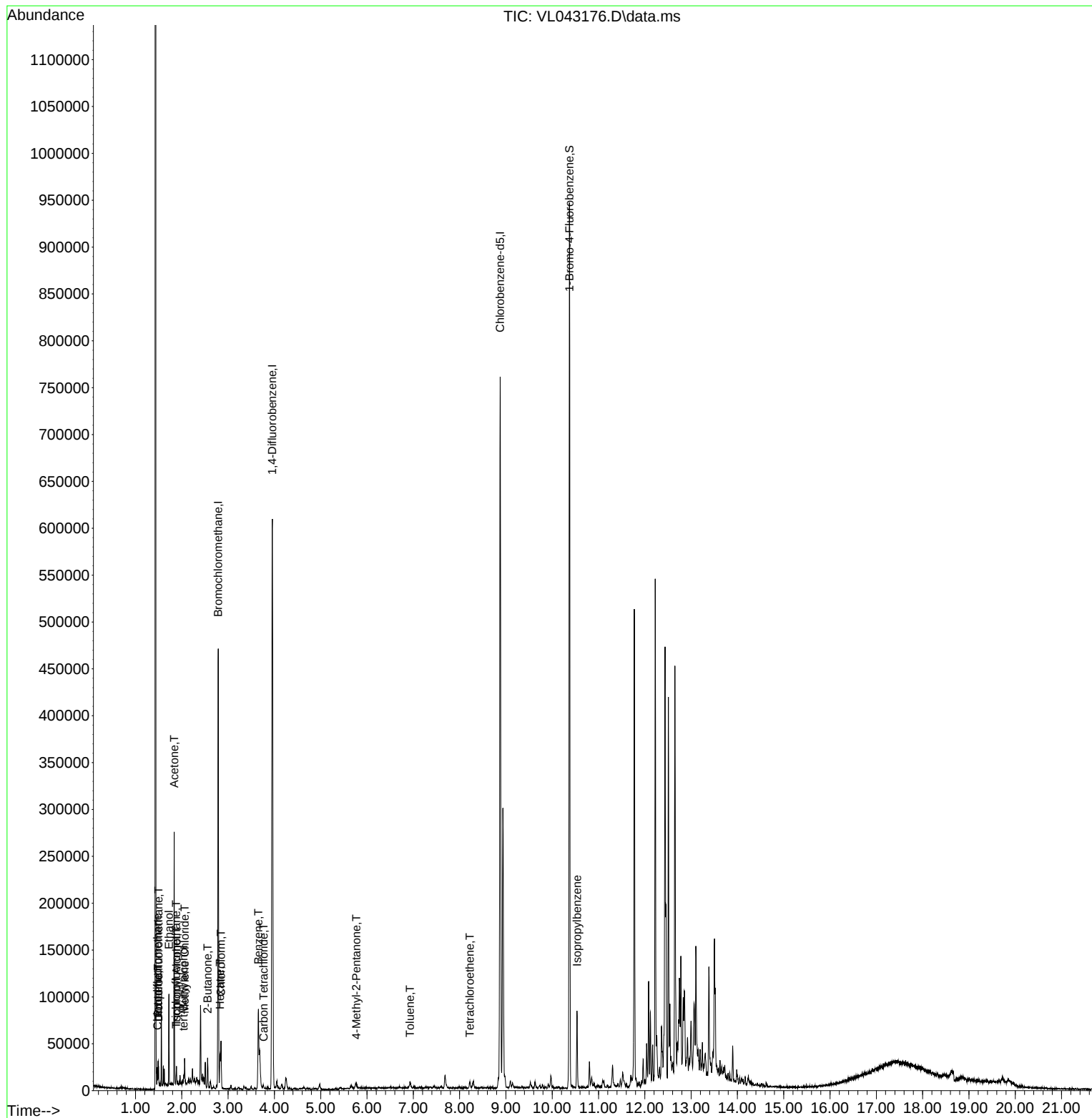
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
Data File : VL043176.D
Acq On : 06 Nov 2025 20:03
Operator : SY/MD
Sample : Q3556-04 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
131-SG-2

Quant Time: Nov 07 00:28:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Manual Integrations
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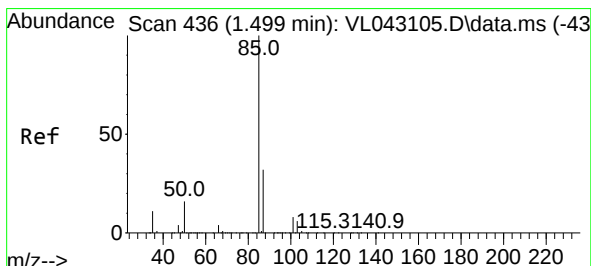
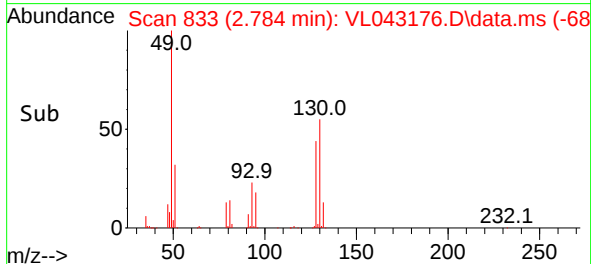
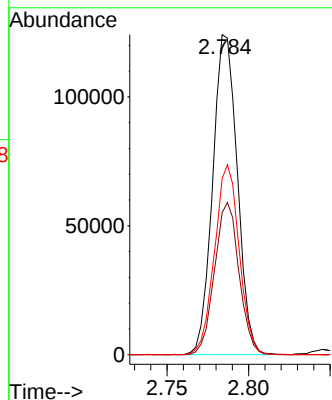
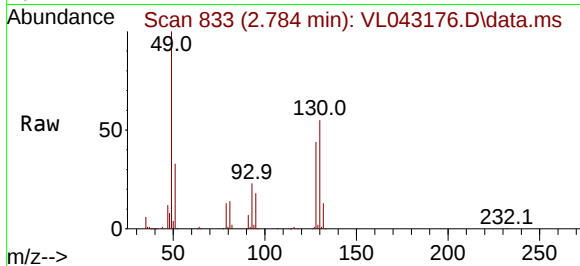
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 811
Delta R.T. -0.006 min
Lab File: VL043176.D
Acq: 06 Nov 2025 20:03

Instrument :
MSVOA_L
ClientSampleId :
131-SG-2

Tgt Ion: 49 Resp: 130480
Ion Ratio Lower Upper
49 100
128 47.2 24.4 73.4
130 59.3 31.0 93.0

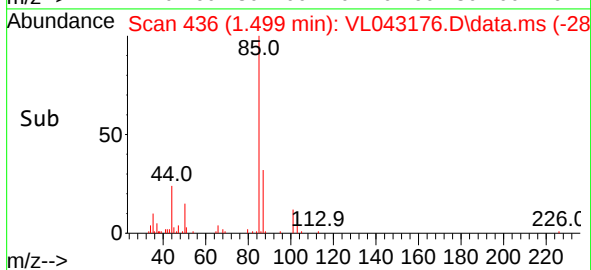
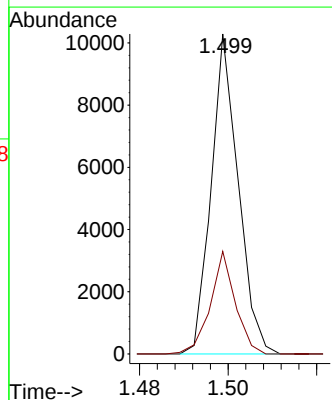
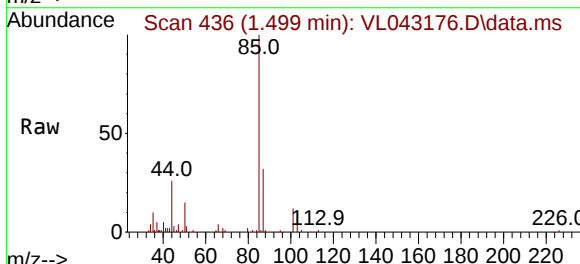
Manual Integrations
APPROVED

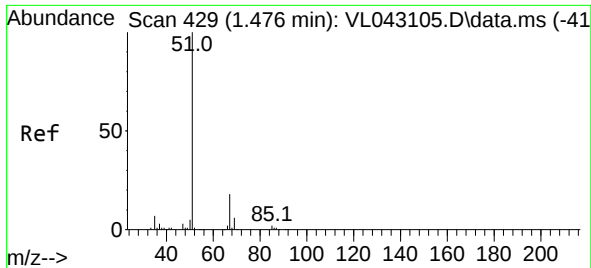
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#2
Dichlorodifluoromethane
Concen: 0.235 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL043176.D
Acq: 06 Nov 2025 20:03

Tgt Ion: 85 Resp: 4362
Ion Ratio Lower Upper
85 100
87 32.0 25.3 37.9





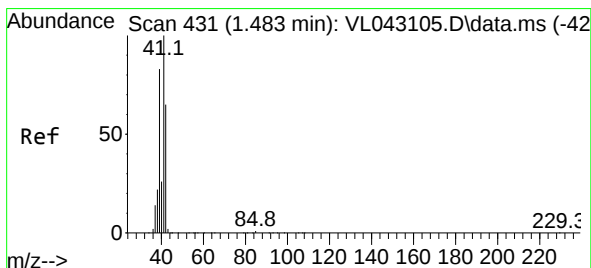
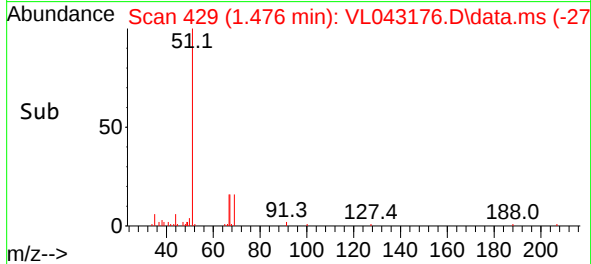
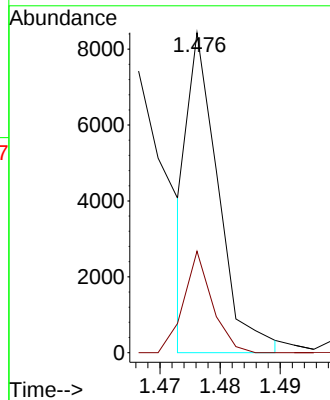
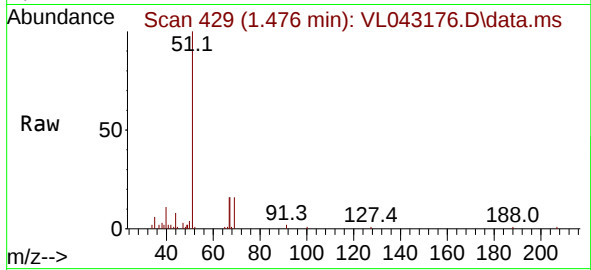
#3
Chlorodifluoromethane
Concen: 0.145 ppbv m
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL043176.D
Acq: 06 Nov 2025 20:03

Instrument :
MSVOA_L
ClientSampleId :
131-SG-2

Tgt Ion: 51 Resp: 2918
Ion Ratio Lower Upper
51 100
67 30.3 15.1 22.7

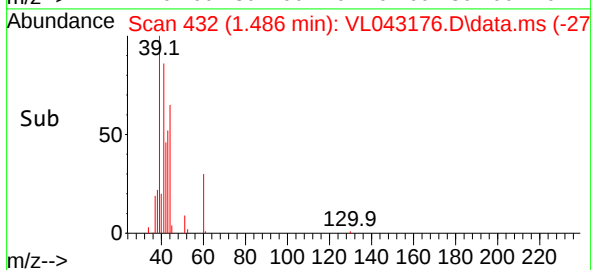
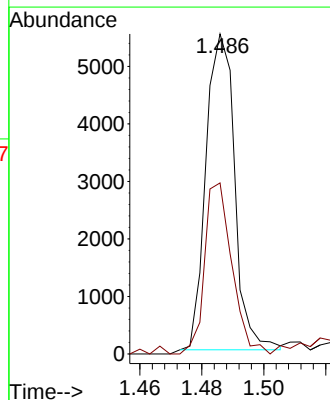
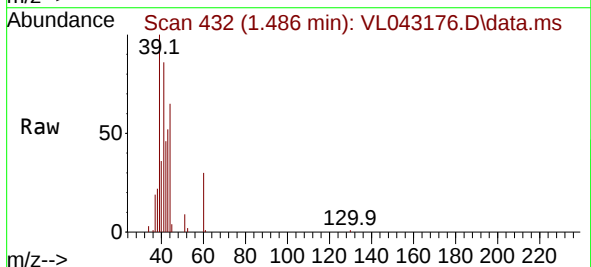
Manual Integrations
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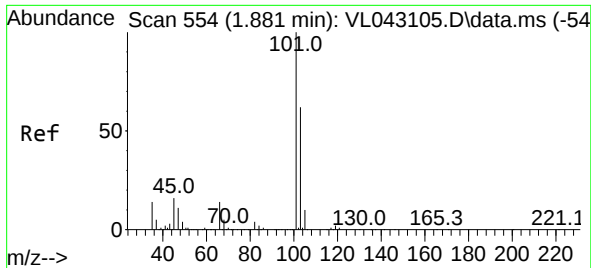
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#9
Propene
Concen: 0.396 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL043176.D
Acq: 06 Nov 2025 20:03

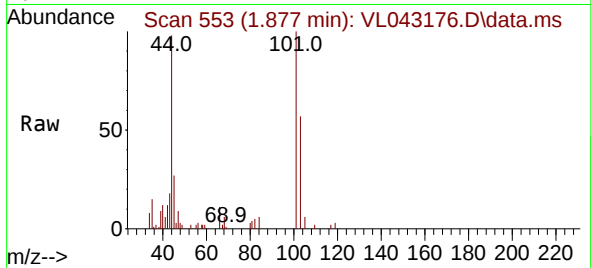
Tgt Ion: 41 Resp: 3526
Ion Ratio Lower Upper
41 100
42 63.9 55.1 82.7





#11
Trichlorofluoromethane
Concen: 0.125 ppbv
RT: 1.877 min Scan# 501
Delta R.T. -0.003 min
Lab File: VL043176.D
Acq: 06 Nov 2025 20:03

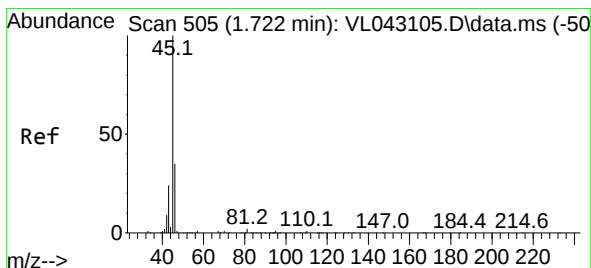
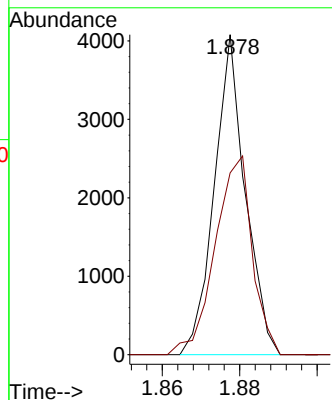
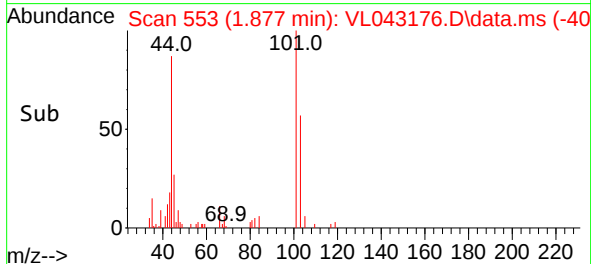
Instrument :
MSVOA_L
ClientSampleId :
131-SG-2



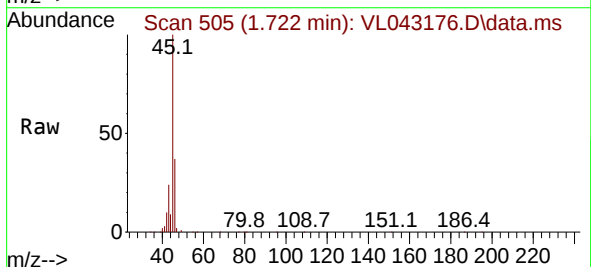
Tgt Ion:101 Resp: 2260
Ion Ratio Lower Upper
101 100
103 56.8 49.3 73.9

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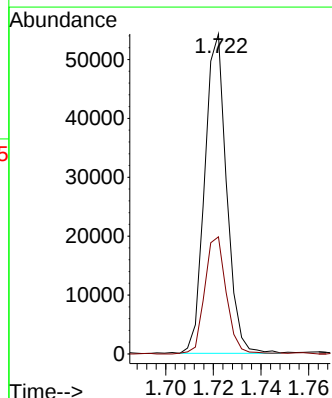
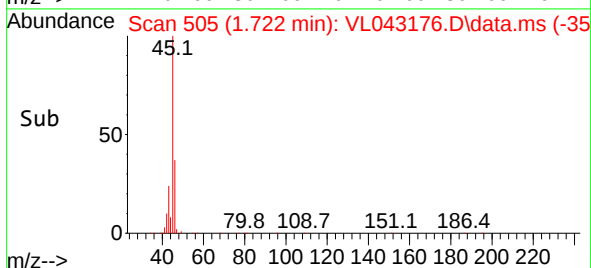
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

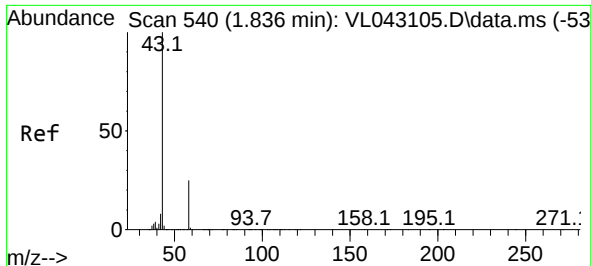


#13
Ethanol
Concen: 10.555 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043176.D
Acq: 06 Nov 2025 20:03



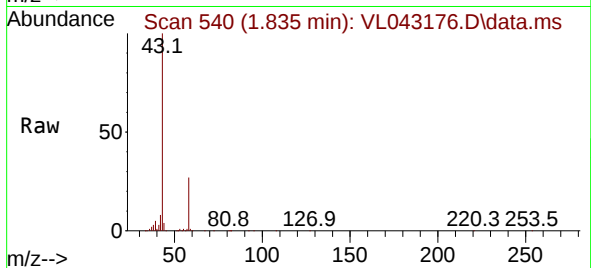
Tgt Ion: 45 Resp: 34752
Ion Ratio Lower Upper
45 100
46 37.0 14.7 58.9





#15
Acetone
Concen: 6.359 ppbv
RT: 1.835 min Scan# 541
Delta R.T. -0.000 min
Lab File: VL043176.D
Acq: 06 Nov 2025 20:03

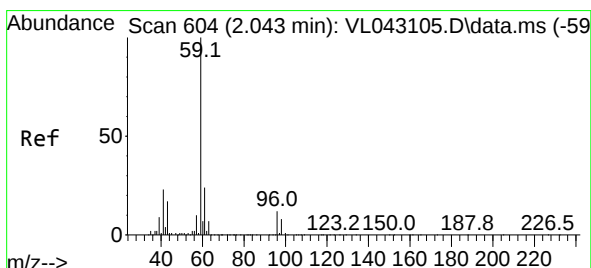
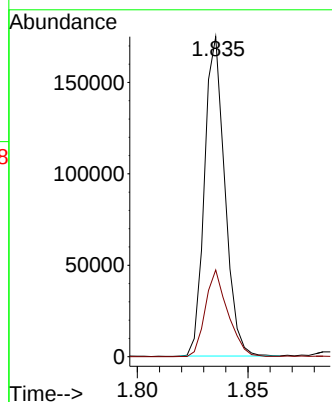
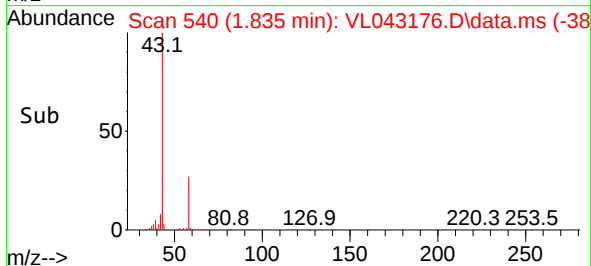
Instrument :
MSVOA_L
ClientSampleId :
131-SG-2



Tgt Ion: 43 Resp: 11182
Ion Ratio Lower Upper
43 100
58 30.5 20.8 31.2

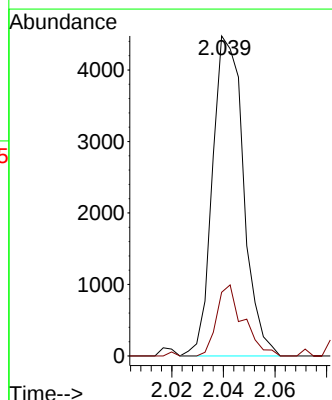
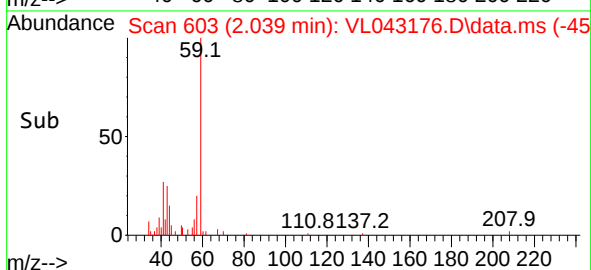
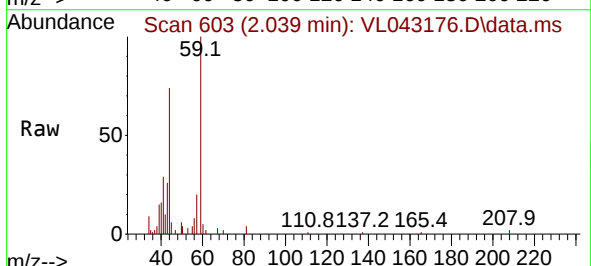
Manual Integrations
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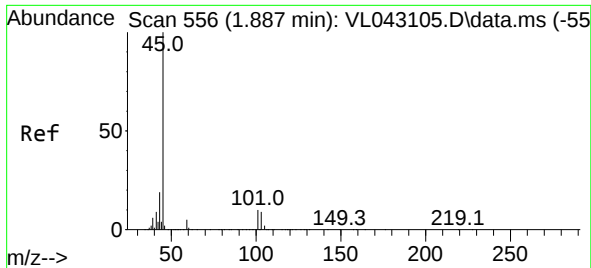
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#17
tert-Butyl alcohol
Concen: 0.154 ppbv
RT: 2.039 min Scan# 603
Delta R.T. -0.003 min
Lab File: VL043176.D
Acq: 06 Nov 2025 20:03

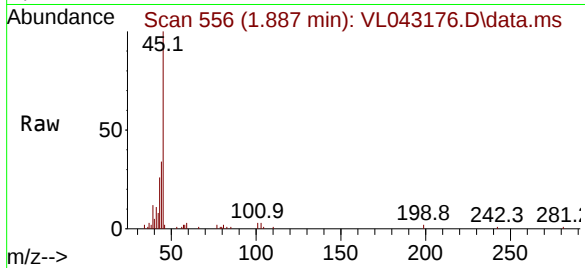
Tgt Ion: 59 Resp: 3728
Ion Ratio Lower Upper
59 100
57 19.3 8.2 12.4#





#19
Isopropyl Alcohol
Concen: 0.592 ppbv
RT: 1.887 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL043176.D
Acq: 06 Nov 2025 20:03

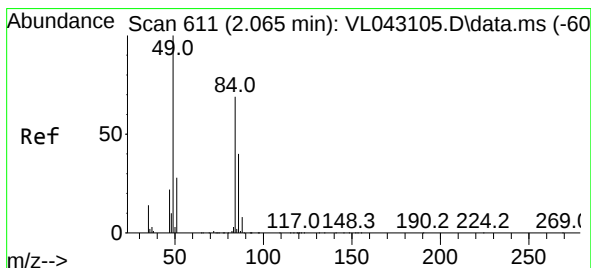
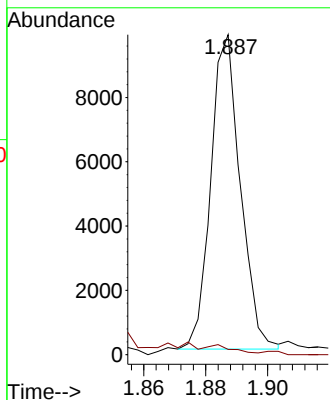
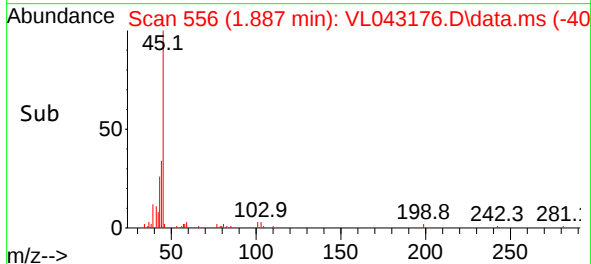
Instrument :
MSVOA_L
ClientSampleId :
131-SG-2



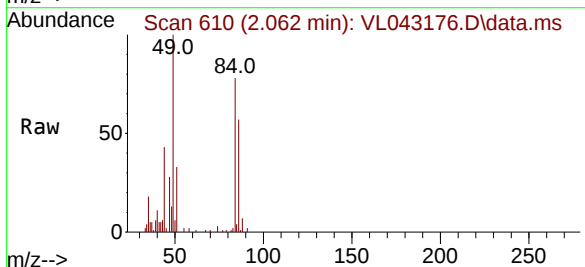
Tgt Ion: 45 Resp: 6484
Ion Ratio Lower Upper
45 100
58 525.6 31.3 46.9

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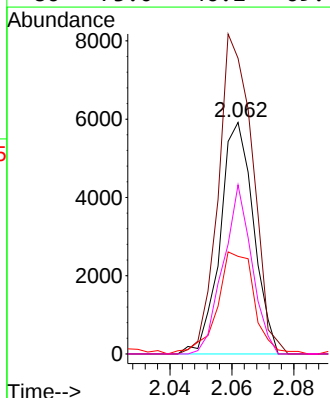
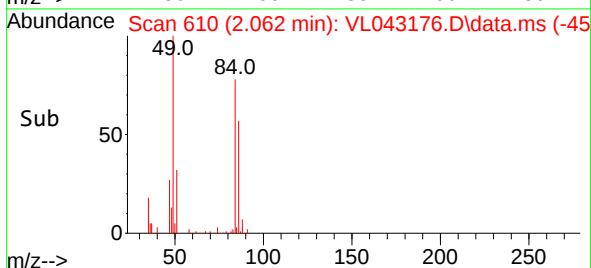
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

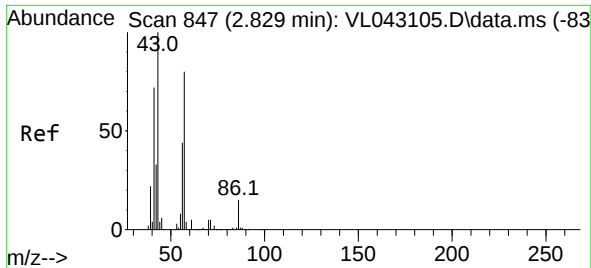


#20
Methylene Chloride
Concen: 0.637 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043176.D
Acq: 06 Nov 2025 20:03



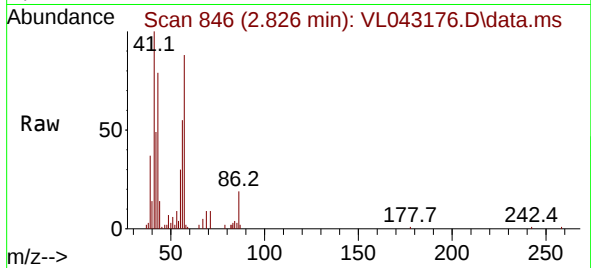
Tgt Ion: 84 Resp: 4427
Ion Ratio Lower Upper
84 100
49 127.7 116.6 175.0
51 40.8 34.8 52.2
86 73.0 46.2 69.4





#26
Hexane
Concen: 0.349 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL043176.D
Acq: 06 Nov 2025 20:03

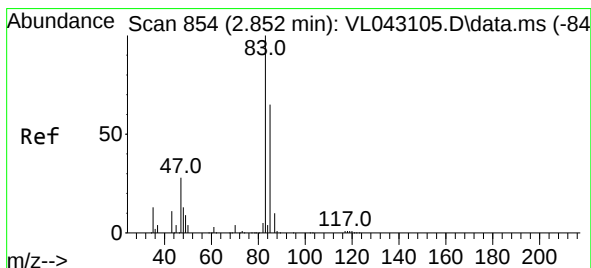
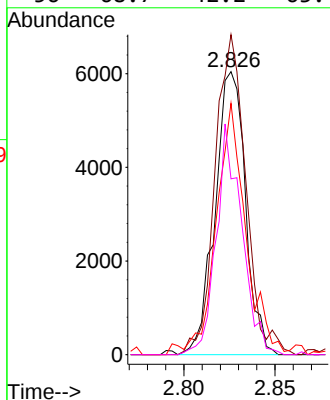
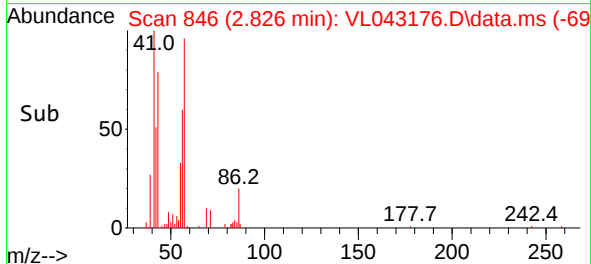
Instrument :
MSVOA_L
ClientSampleId :
131-SG-2



Tgt Ion: 57 Resp: 7014
Ion Ratio Lower Upper
57 100
41 114.7 71.4 107.0
43 88.2 178.5 267.7
56 68.7 42.2 63.4

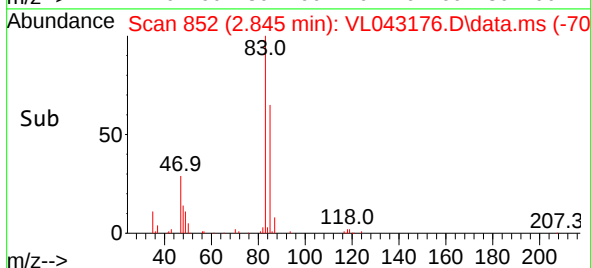
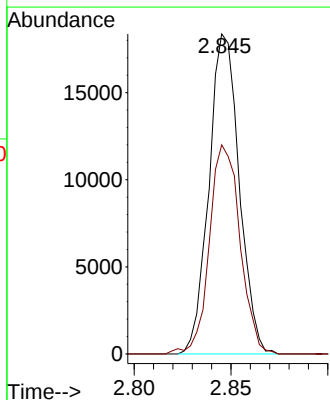
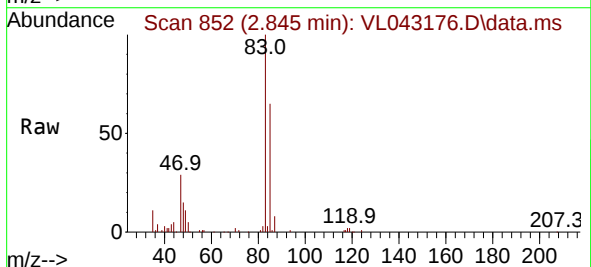
Manual Integrations
APPROVED

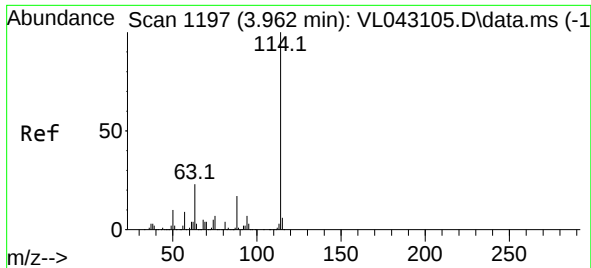
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#29
Chloroform
Concen: 0.686 ppbv
RT: 2.845 min Scan# 852
Delta R.T. -0.007 min
Lab File: VL043176.D
Acq: 06 Nov 2025 20:03

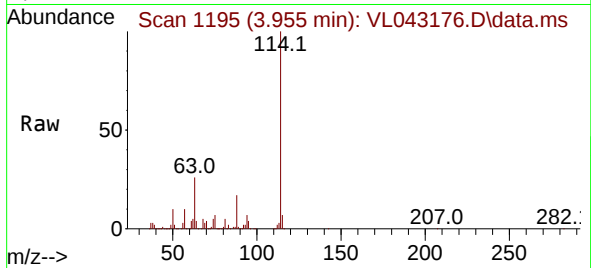
Tgt Ion: 83 Resp: 19971
Ion Ratio Lower Upper
83 100
85 65.4 51.8 77.6





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.007 min
Lab File: VL043176.D
Acq: 06 Nov 2025 20:03

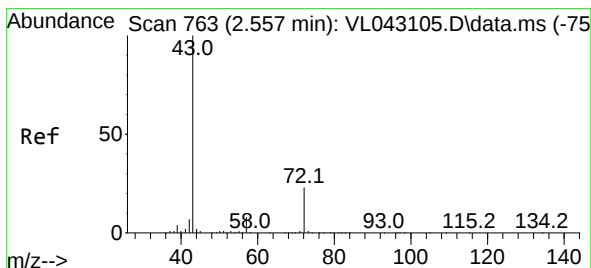
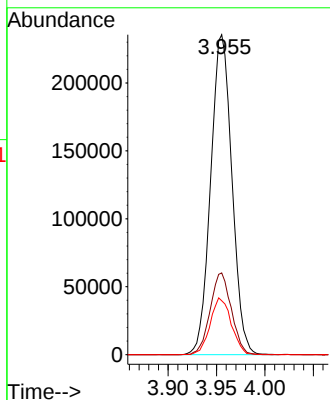
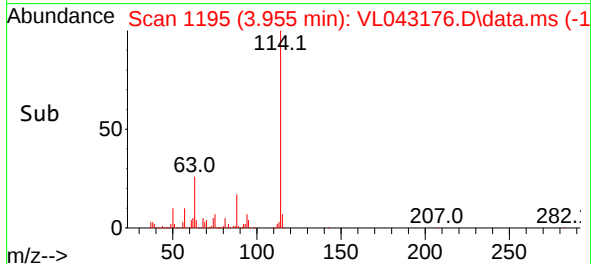
Instrument :
MSVOA_L
ClientSampleId :
131-SG-2



Tgt Ion:114 Resp: 360019
Ion Ratio Lower Upper
114 100
63 25.6 19.3 28.9
88 17.6 13.9 20.9

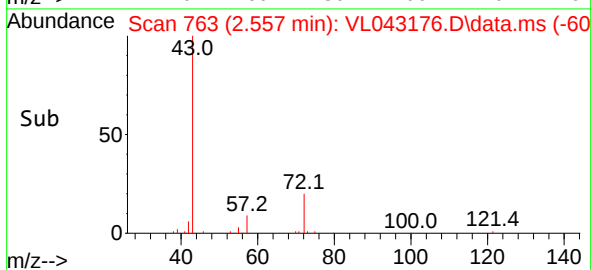
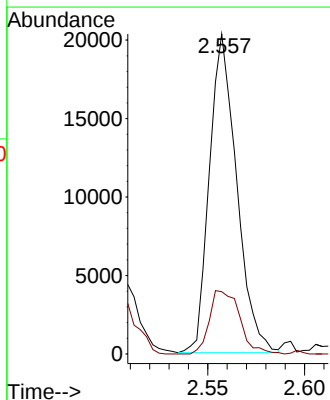
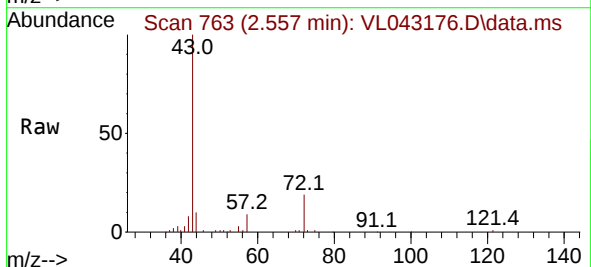
Manual Integrations
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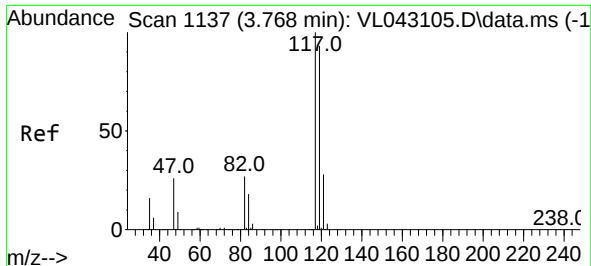
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#34
2-Butanone
Concen: 0.822 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL043176.D
Acq: 06 Nov 2025 20:03

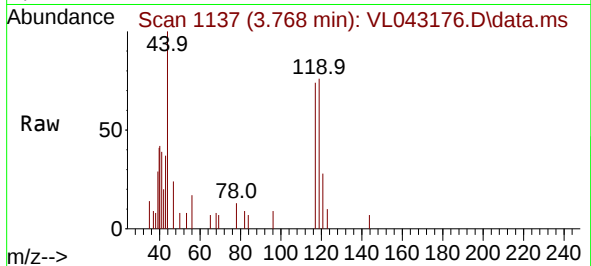
Tgt Ion: 43 Resp: 19902
Ion Ratio Lower Upper
43 100
72 22.4 18.4 27.6





#35
Carbon Tetrachloride
Concen: 0.031 ppbv m
RT: 3.768 min Scan# 1137
Delta R.T. -0.000 min
Lab File: VL043176.D
Acq: 06 Nov 2025 20:03

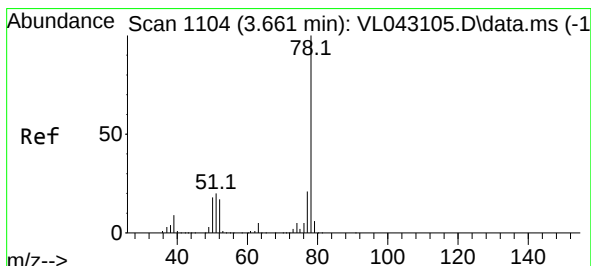
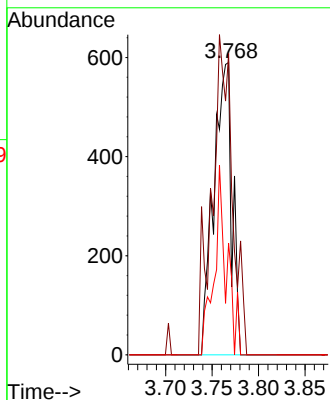
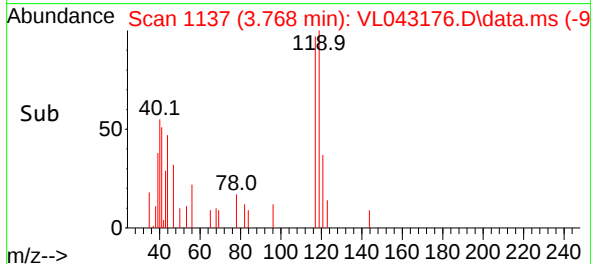
Instrument : MSVOA_L
ClientSampleId : 131-SG-2



Tgt Ion: 117 Resp: 800
Ion Ratio Lower Upper
117 100
119 103.1 74.1 111.1
121 38.1 22.2 33.2

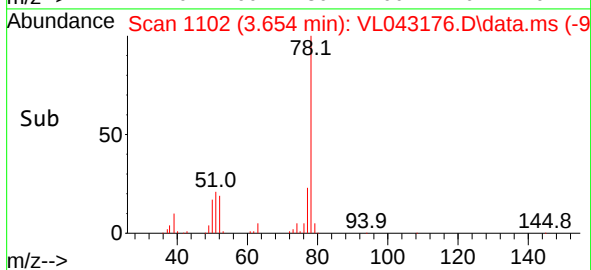
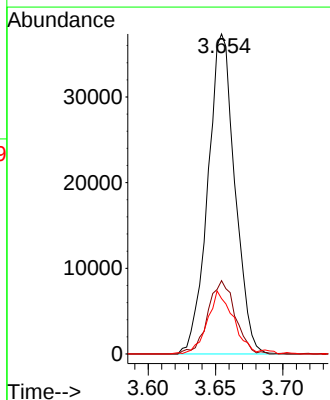
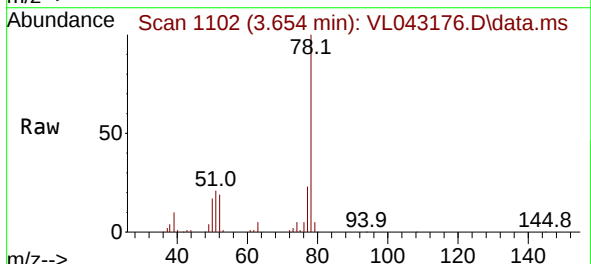
Manual Integrations
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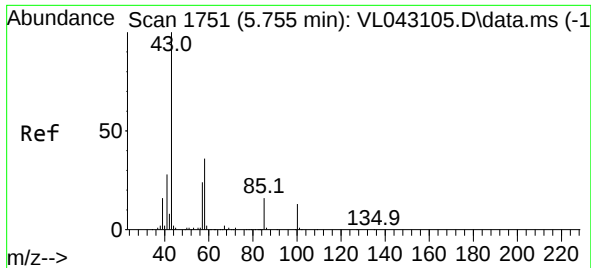
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#36
Benzene
Concen: 1.536 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.007 min
Lab File: VL043176.D
Acq: 06 Nov 2025 20:03

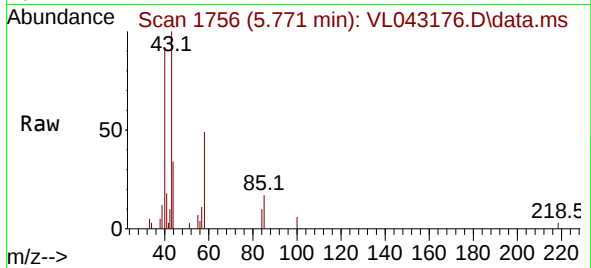
Tgt Ion: 78 Resp: 52069
Ion Ratio Lower Upper
78 100
77 22.9 17.0 25.6
50 17.0 14.6 22.0





#50
4-Methyl-2-Pentanone
Concen: 0.154 ppbv m
RT: 5.771 min Scan# 1756
Delta R.T. 0.016 min
Lab File: VL043176.D
Acq: 06 Nov 2025 20:03

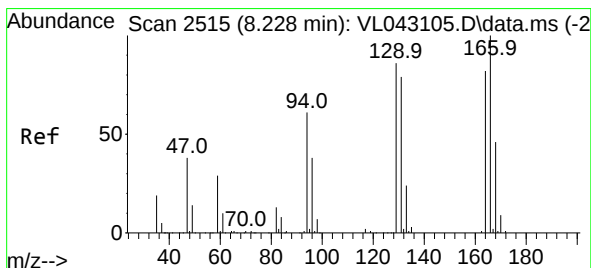
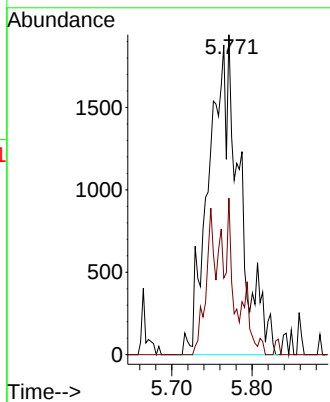
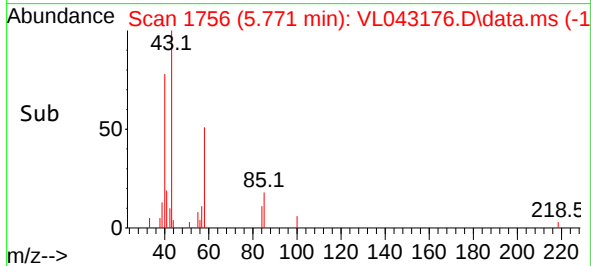
Instrument :
MSVOA_L
ClientSampleId :
131-SG-2



Tgt Ion: 43 Resp: 5140
Ion Ratio Lower Upper
43 100
58 0.0 29.1 43.7

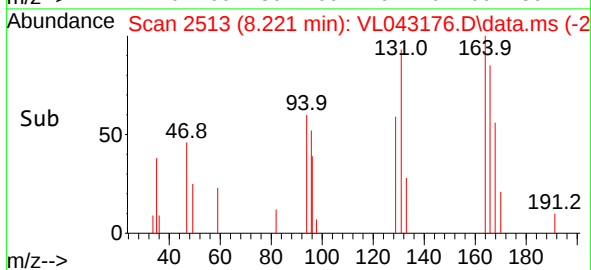
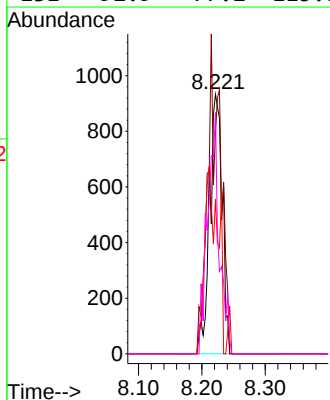
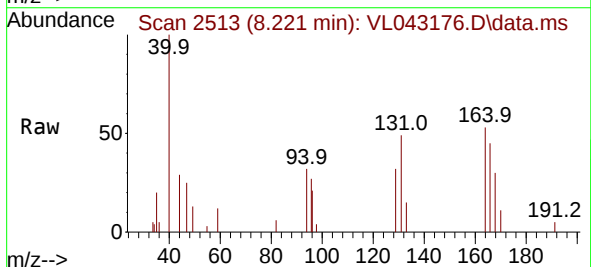
Manual Integrations
APPROVED

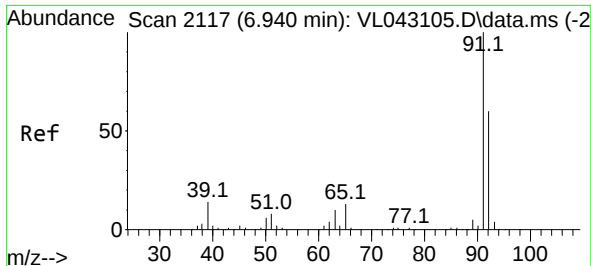
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#52
Tetrachloroethene
Concen: 0.106 ppbv m
RT: 8.221 min Scan# 2513
Delta R.T. -0.007 min
Lab File: VL043176.D
Acq: 06 Nov 2025 20:03

Tgt Ion:164 Resp: 1295
Ion Ratio Lower Upper
164 100
166 85.1 97.6 146.4#
129 59.5 84.5 126.7#
131 92.9 77.2 115.8





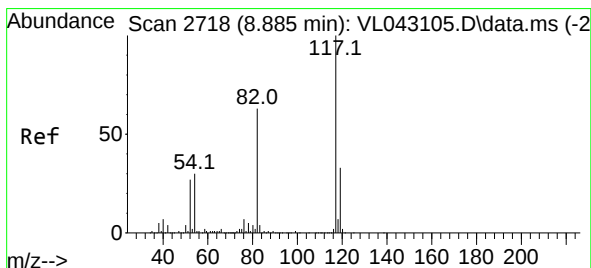
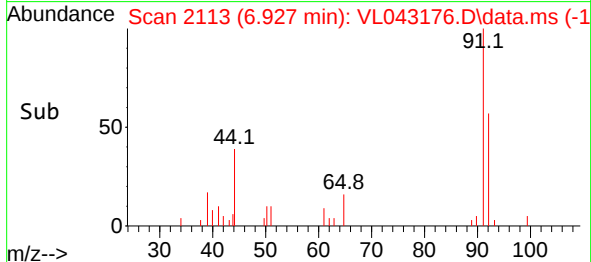
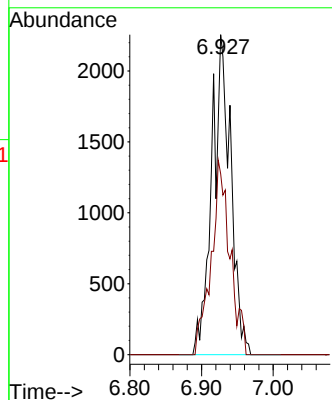
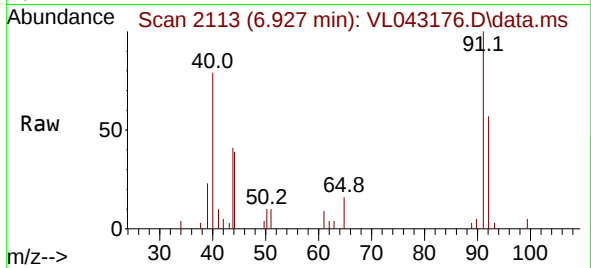
#53
Toluene
Concen: 0.102 ppbv m
RT: 6.927 min Scan# 2117
Delta R.T. -0.013 min
Lab File: VL043176.D
Acq: 06 Nov 2025 20:03

Instrument :
MSVOA_L
ClientSampleId :
131-SG-2

Tgt Ion: 91 Resp: 408
Ion Ratio Lower Upper
91 100
92 61.2 48.8 73.2

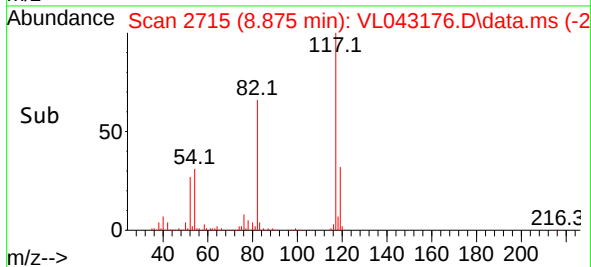
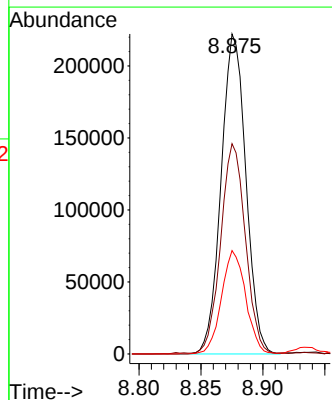
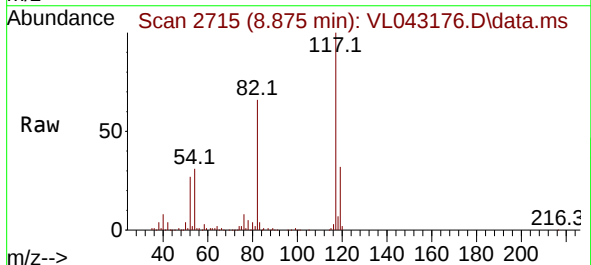
Manual Integrations
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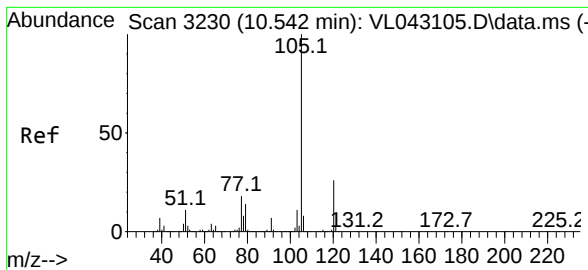
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.010 min
Lab File: VL043176.D
Acq: 06 Nov 2025 20:03

Tgt Ion:117 Resp: 309583
Ion Ratio Lower Upper
117 100
82 65.9 53.8 80.8
119 31.7 25.4 38.0





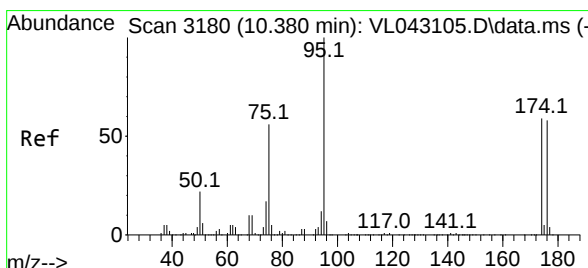
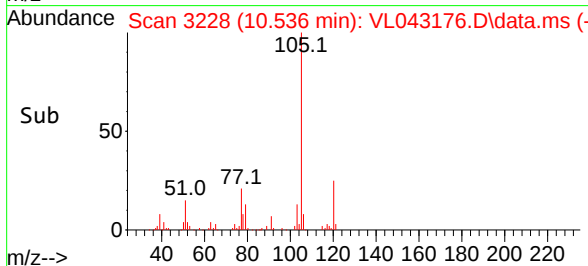
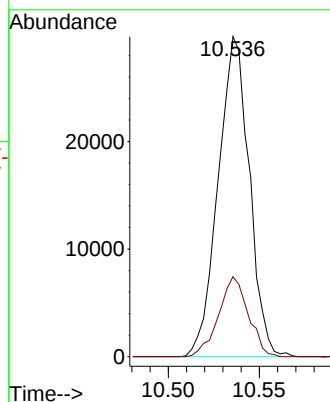
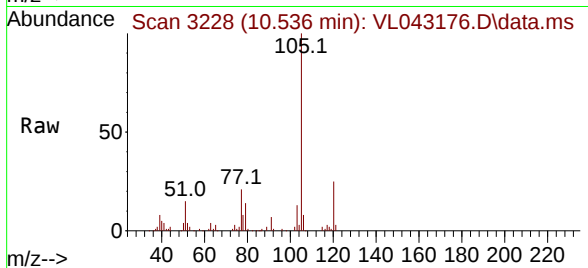
#62
Isopropylbenzene
Concen: 0.467 ppbv
RT: 10.536 min Scan# 3178
Delta R.T. -0.007 min
Lab File: VL043176.D
Acq: 06 Nov 2025 20:03

Instrument :
MSVOA_1
ClientSampleId :
131-SG-2

Tgt Ion:105 Resp: 35300
Ion Ratio Lower Upper
105 100
120 23.9 20.2 30.4

Manual Integrations
APPROVED

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



#68
1-Bromo-4-Fluorobenzene
Concen: 9.976 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.007 min
Lab File: VL043176.D
Acq: 06 Nov 2025 20:03

Tgt Ion: 95 Resp: 240054
Ion Ratio Lower Upper
95 100
174 62.9 48.3 72.5
175 4.4 3.8 5.8

