

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
 Data File : VL043262.D
 Acq On : 20 Nov 2025 13:24
 Operator : SY/MD
 Sample : Q3655-02 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
 Supervised By :Mahesh Dadoda 11/21/2025

Quant Time: Nov 21 00:38:13 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	103900	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	279180	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	219347	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	166068	10.329	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.300%
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.499	85	3828	0.261	ppbv	98
3) Chlorodifluoromethane	1.473	51	1983m	0.138	ppbv	
4) Chloromethane	1.535	50	3761	0.686	ppbv	92
6) Bromomethane	1.667	94	989	0.340	ppbv	94
9) Propene	1.486	41	3938	0.643	ppbv #	1
11) Trichlorofluoromethane	1.878	101	1889	0.133	ppbv	99
13) Ethanol	1.722	45	14583	6.777	ppbv	91
15) Acetone	1.836	43	365584	25.326	ppbv	98
17) tert-Butyl alcohol	2.043	59	3910	0.206	ppbv #	62
19) Isopropyl Alcohol	1.884	45	52673	6.457	ppbv #	1
20) Methylene Chloride	2.062	84	6938	0.918	ppbv #	87
26) Hexane	2.826	57	11396	0.835	ppbv #	44
27) Carbon Disulfide	2.153	76	3676	0.264	ppbv #	1
31) cis-1,2-Dichloroethene	2.719	61	2376	0.175	ppbv #	93
34) 2-Butanone	2.558	43	26112	1.325	ppbv	96
35) Carbon Tetrachloride	3.765	117	934m	0.044	ppbv	
36) Benzene	3.655	78	5648	0.211	ppbv #	91
38) Trichloroethene	4.542	130	4693m	0.449	ppbv	
52) Tetrachloroethene	8.222	164	292708	29.432	ppbv	97
53) Toluene	6.930	91	10271m	0.324	ppbv	
59) m/p-Xylene	9.526	91	11087m	0.328	ppbv	
60) o-Xylene	9.963	91	4116	0.122	ppbv	94
74) 1,2,4-Trimethylbenzene	11.533	105	6527	0.173	ppbv #	51

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

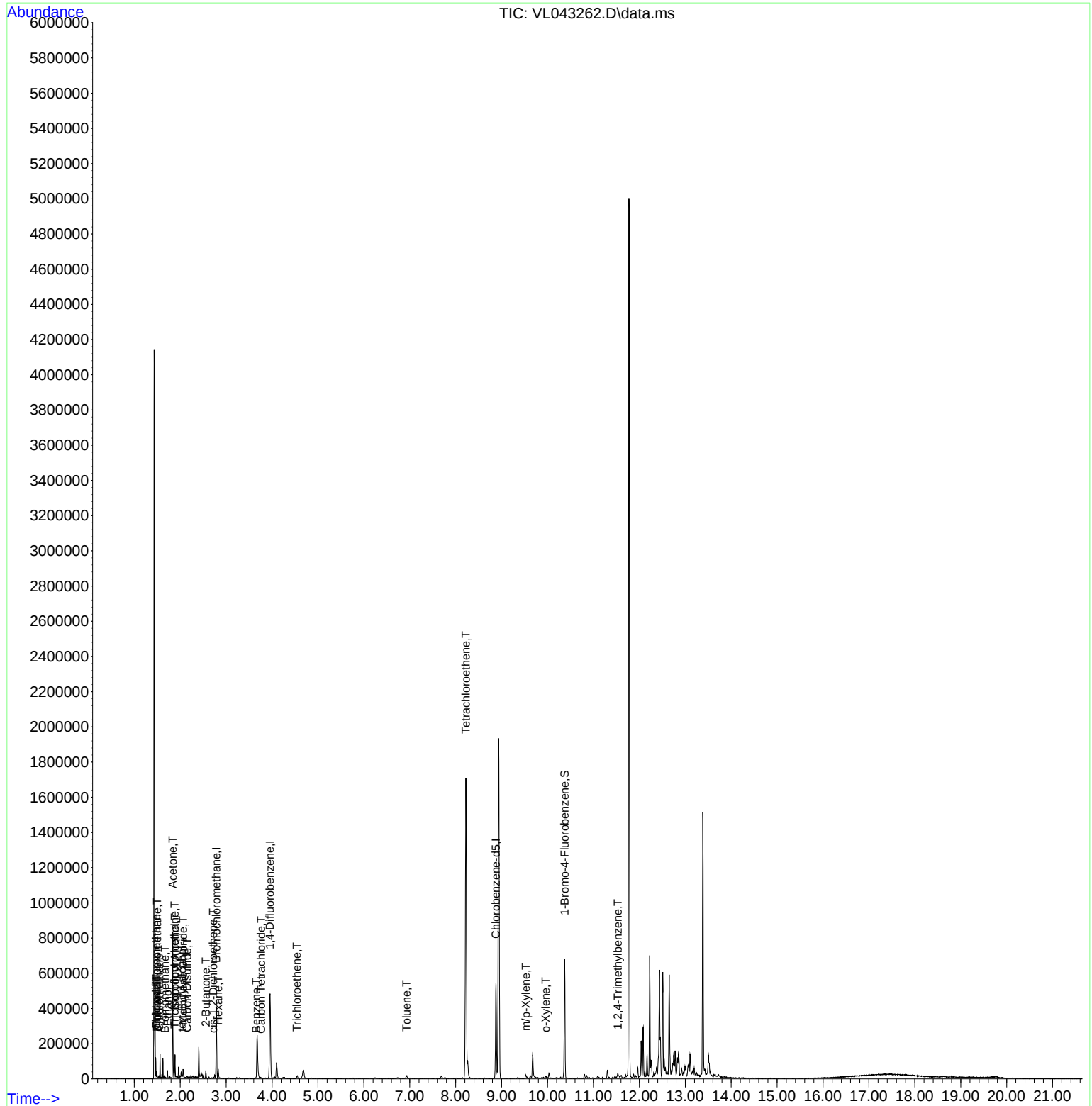
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
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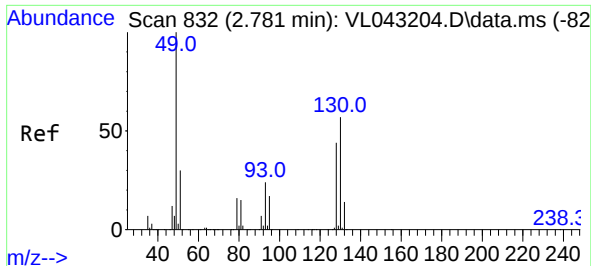
Instrument :
MSVOA_L
ClientSampleId :
SG-2

Quant Time: Nov 21 00:38:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

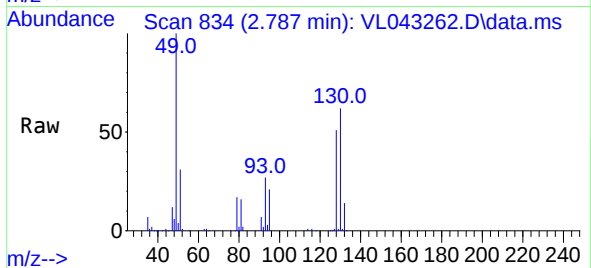
Reviewed By : Semsettin Yesilyurt 11/21/2025
Supervised By : Mahesh Dadoda 11/21/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL043262.D
Acq: 20 Nov 2025 13:24

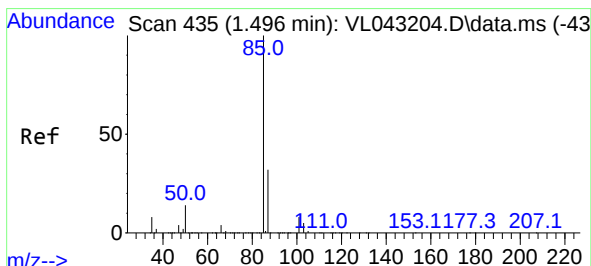
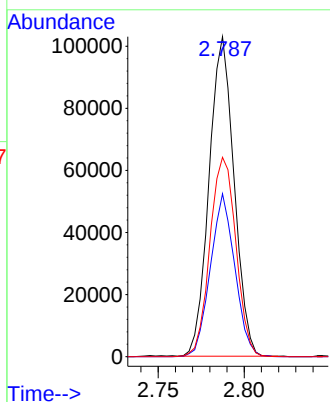
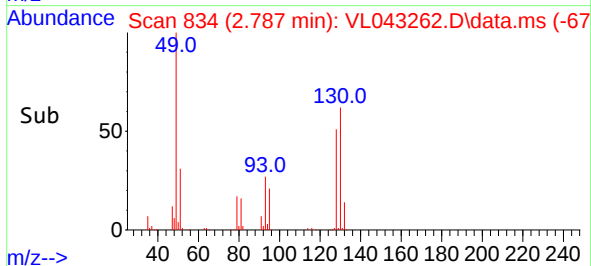
Instrument :
MSVOA_L
ClientSampleId :
SG-2



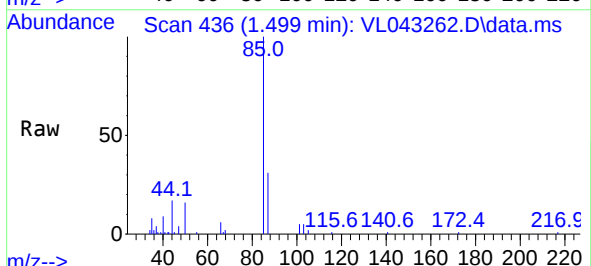
Tgt Ion: 49 Resp: 103900
Ion Ratio Lower Upper
49 100
128 49.8 23.0 69.0
130 65.0 29.9 89.7

Manual Integrations
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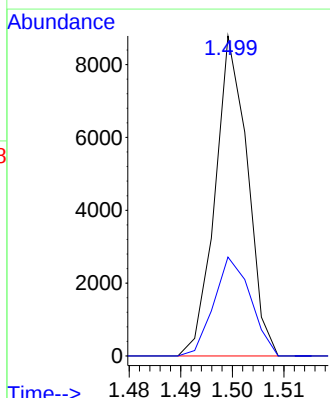
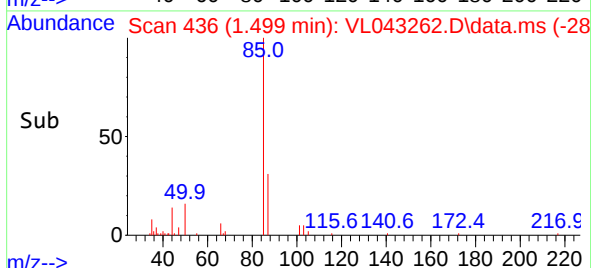
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Supervised By :Mahesh Dadoda 11/21/2025

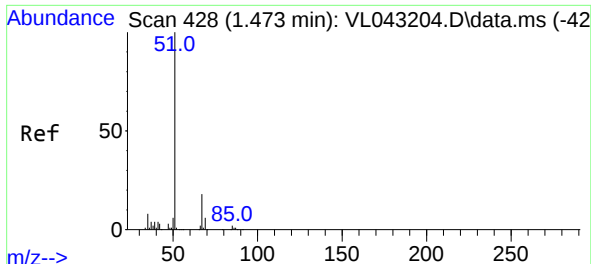


#2
Dichlorodifluoromethane
Concen: 0.261 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043262.D
Acq: 20 Nov 2025 13:24



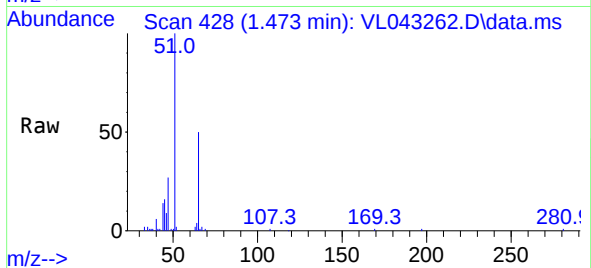
Tgt Ion: 85 Resp: 3828
Ion Ratio Lower Upper
85 100
87 30.9 25.4 38.2





#3
Chlorodifluoromethane
Concen: 0.138 ppbv m
RT: 1.473 min Scan# 428
Delta R.T. 0.000 min
Lab File: VL043262.D
Acq: 20 Nov 2025 13:24

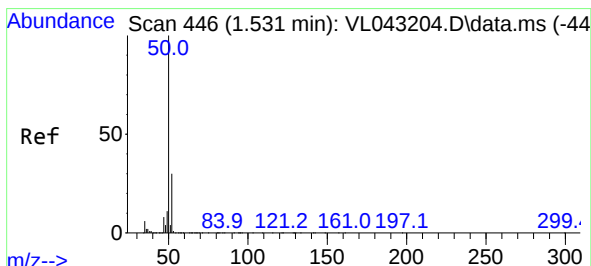
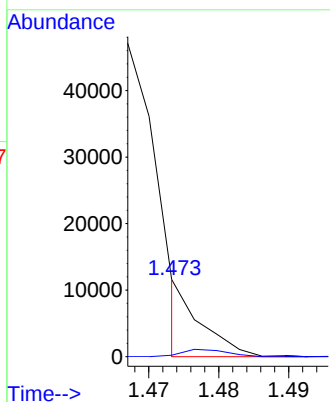
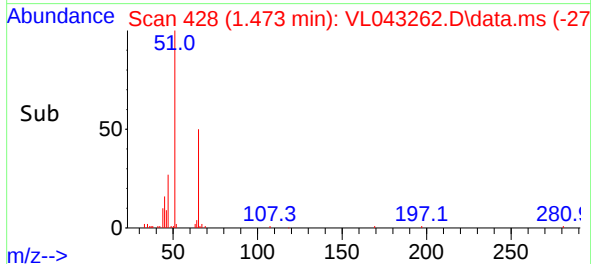
Instrument :
MSVOA_L
ClientSampleId :
SG-2



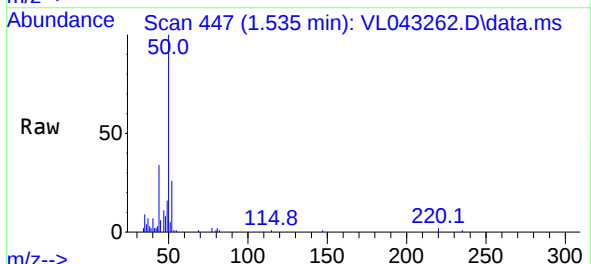
Tgt Ion: 51 Resp: 1983
Ion Ratio Lower Upper
51 100
67 26.1 14.9 22.3

Manual Integrations
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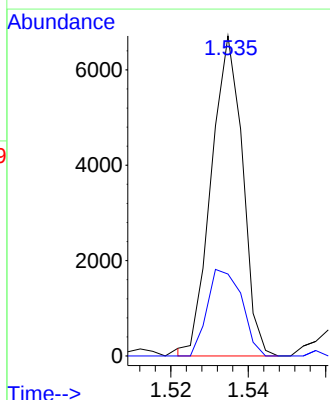
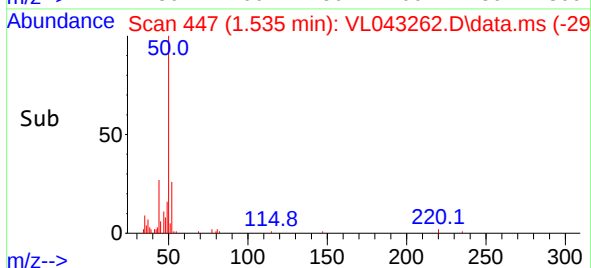
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

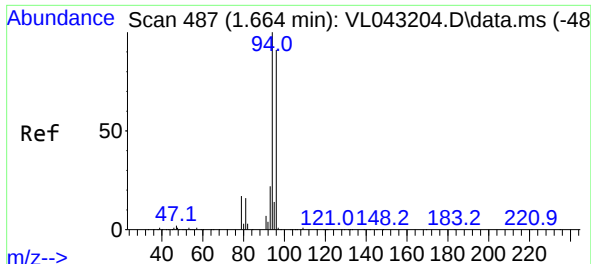


#4
Chloromethane
Concen: 0.686 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043262.D
Acq: 20 Nov 2025 13:24



Tgt Ion: 50 Resp: 3761
Ion Ratio Lower Upper
50 100
52 25.6 24.1 36.1





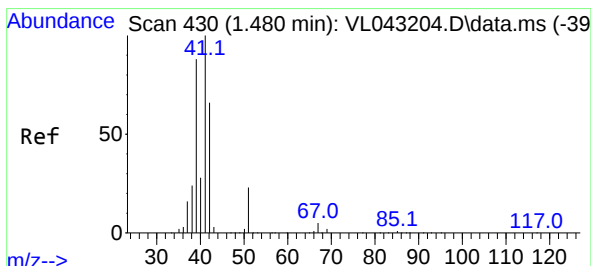
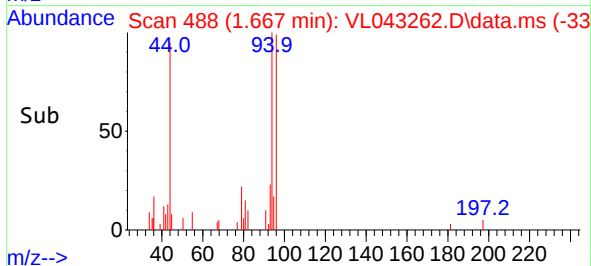
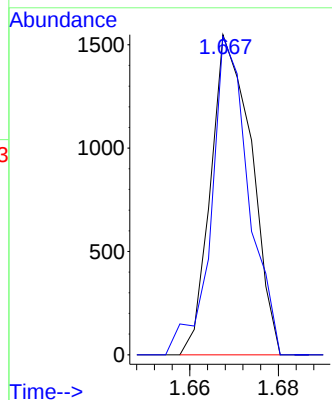
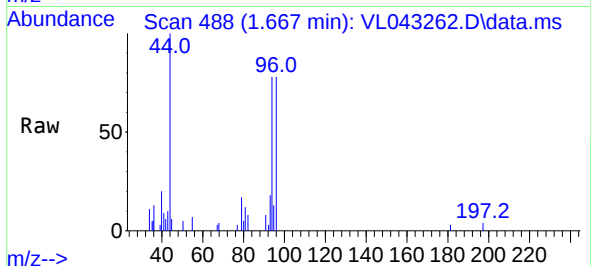
#6
Bromomethane
Concen: 0.340 ppbv
RT: 1.667 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043262.D
Acq: 20 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
SG-2

Tgt Ion: 94 Resp: 989
Ion Ratio Lower Upper
94 100
96 85.3 72.9 109.3

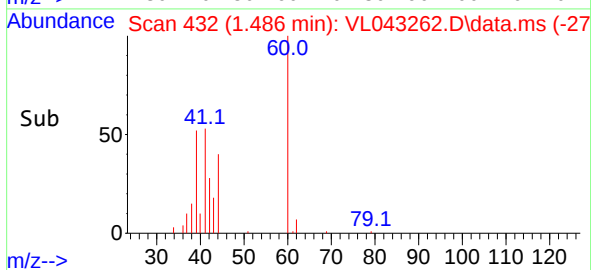
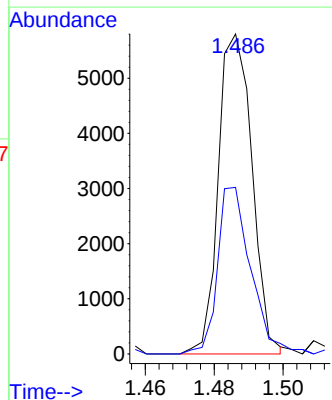
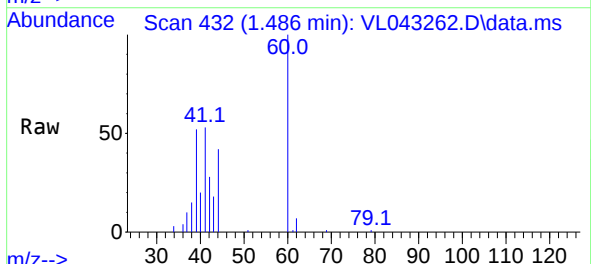
Manual Integrations
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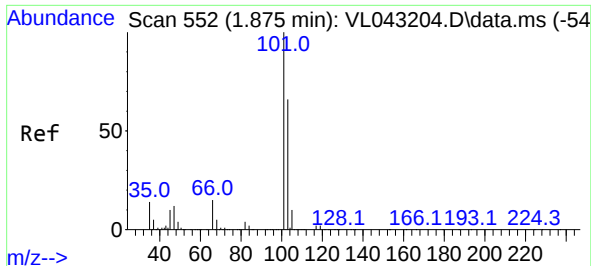
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#9
Propene
Concen: 0.643 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.007 min
Lab File: VL043262.D
Acq: 20 Nov 2025 13:24

Tgt Ion: 41 Resp: 3938
Ion Ratio Lower Upper
41 100
42 55.2 3.7 5.5#





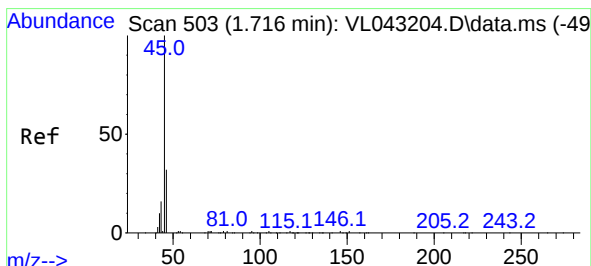
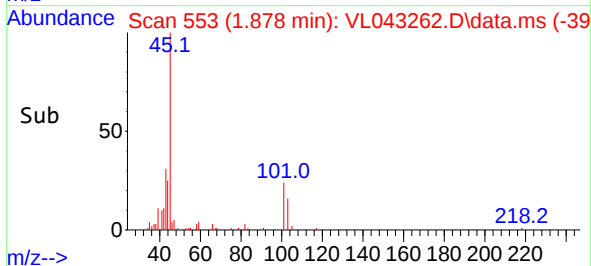
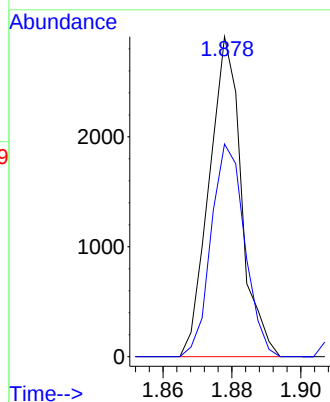
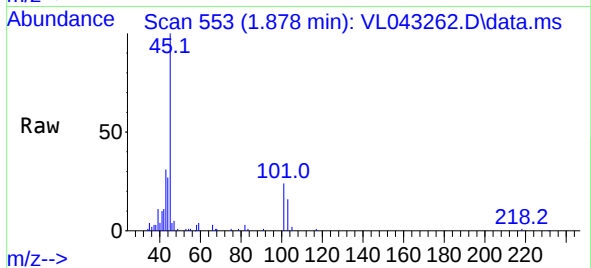
#11
Trichlorofluoromethane
Concen: 0.133 ppbv
RT: 1.878 min Scan# 501
Delta R.T. 0.003 min
Lab File: VL043262.D
Acq: 20 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
SG-2

Tgt Ion:101 Resp: 1889
Ion Ratio Lower Upper
101 100
103 66.4 52.6 79.0

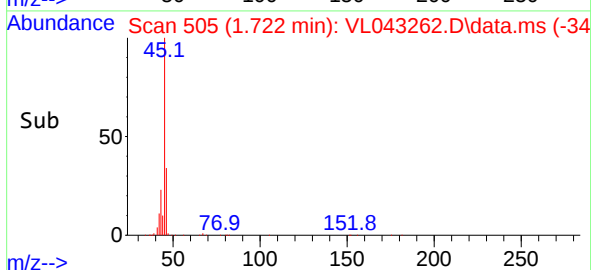
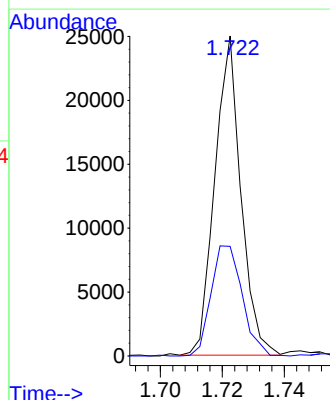
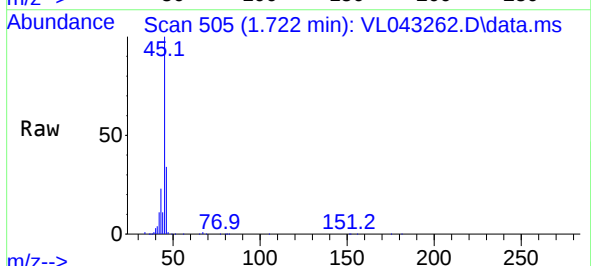
Manual Integrations
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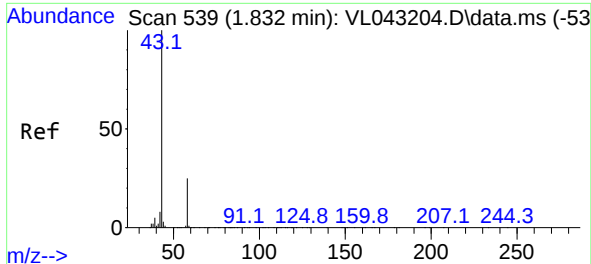
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#13
Ethanol
Concen: 6.777 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.007 min
Lab File: VL043262.D
Acq: 20 Nov 2025 13:24

Tgt Ion: 45 Resp: 14583
Ion Ratio Lower Upper
45 100
46 42.9 15.0 59.8





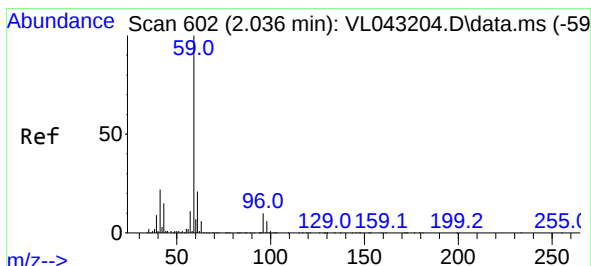
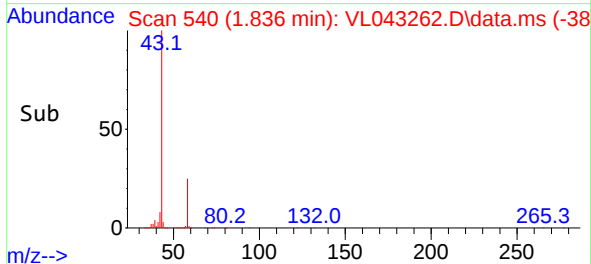
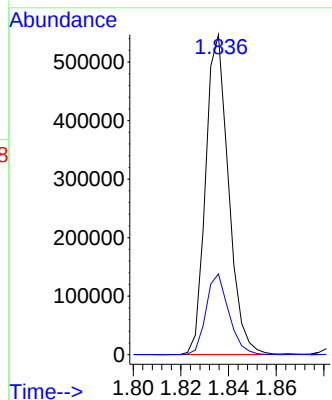
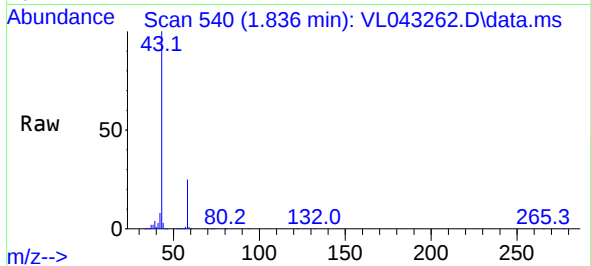
#15
Acetone
Concen: 25.326 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043262.D
Acq: 20 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
SG-2

Tgt Ion: 43 Resp: 365584
Ion Ratio Lower Upper
43 100
58 25.1 20.7 31.1

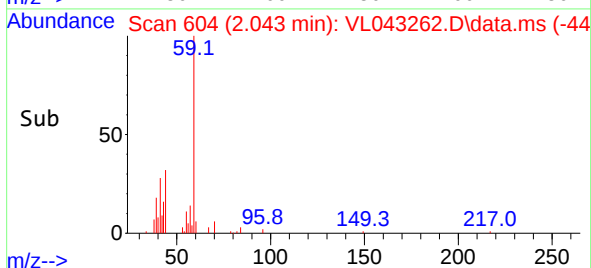
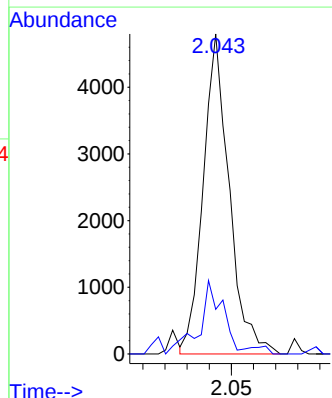
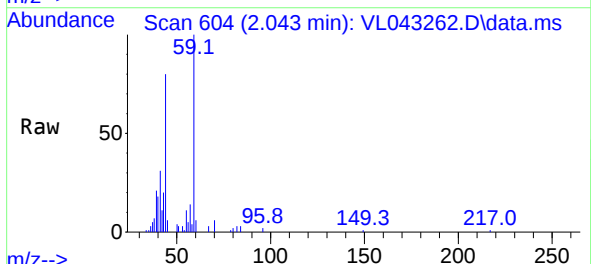
Manual Integrations
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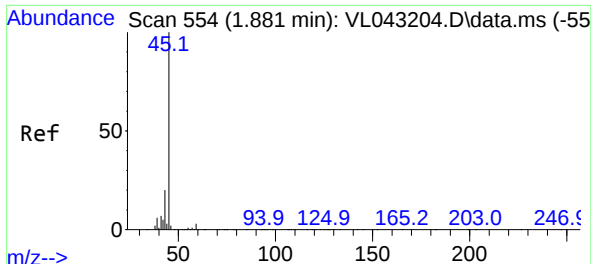
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#17
tert-Butyl alcohol
Concen: 0.206 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.007 min
Lab File: VL043262.D
Acq: 20 Nov 2025 13:24

Tgt Ion: 59 Resp: 3910
Ion Ratio Lower Upper
59 100
57 25.5 9.0 13.4#





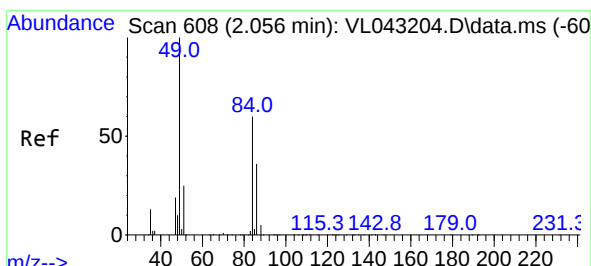
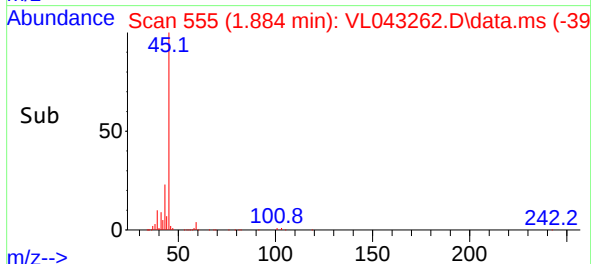
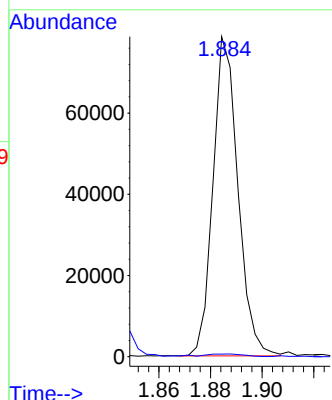
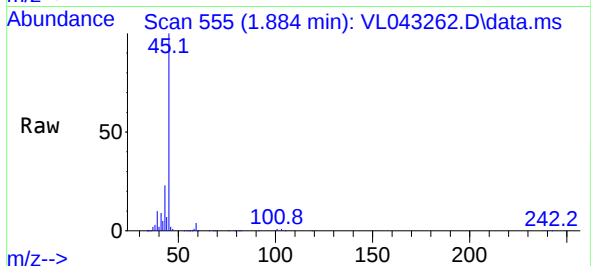
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Isopropyl Alcohol
Concen: 6.457 ppbv
RT: 1.884 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL043262.D
Acq: 20 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
SG-2

Tgt Ion: 45 Resp: 5267
Ion Ratio Lower Upper
45 100
58 174.4 31.3 46.9

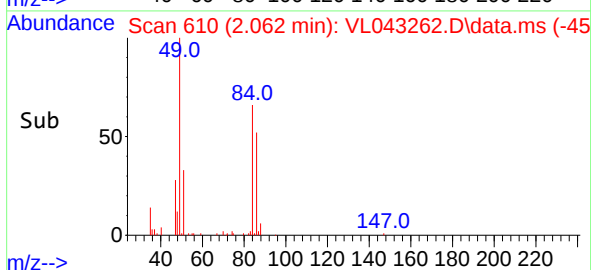
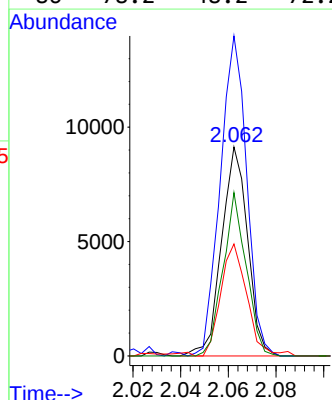
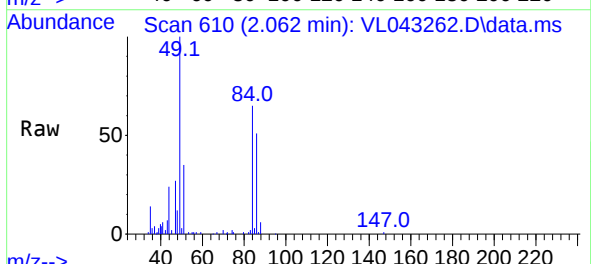
Manual Integrations
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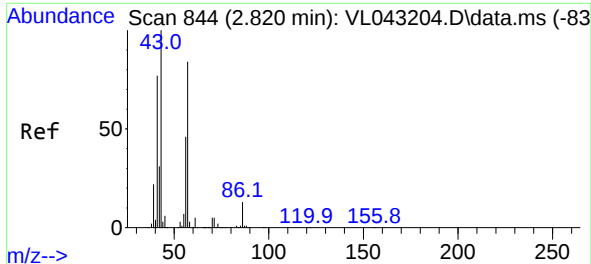
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#20
Methylene Chloride
Concen: 0.918 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043262.D
Acq: 20 Nov 2025 13:24

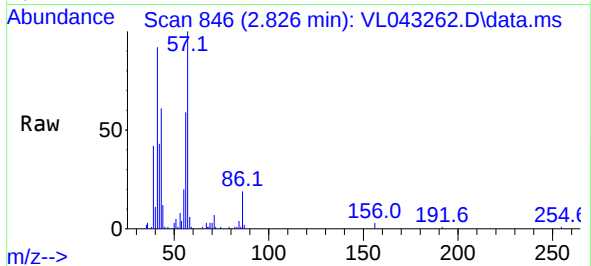
Tgt Ion: 84 Resp: 6938
Ion Ratio Lower Upper
84 100
49 153.1 132.9 199.3
51 52.3 34.8 52.2#
86 78.2 48.2 72.2#





#26
Hexane
Concen: 0.835 ppbv
RT: 2.826 min Scan# 844
Delta R.T. 0.007 min
Lab File: VL043262.D
Acq: 20 Nov 2025 13:24

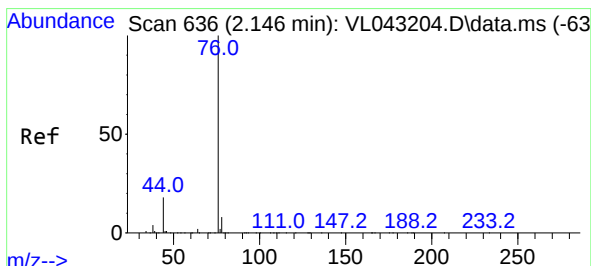
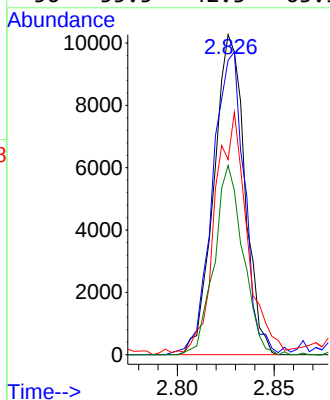
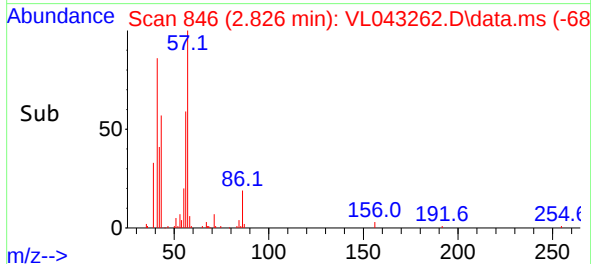
Instrument :
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ClientSampleId :
SG-2



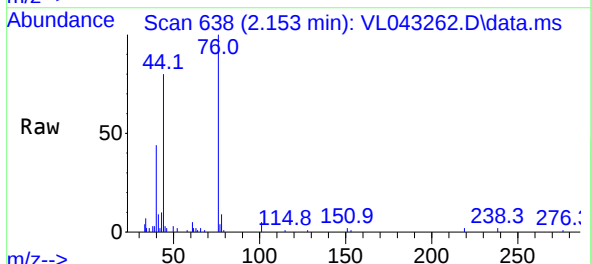
Tgt Ion: 57 Resp: 11390
Ion Ratio Lower Upper
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43 78.3 179.0 268.4
56 55.5 42.3 63.5

Manual Integrations
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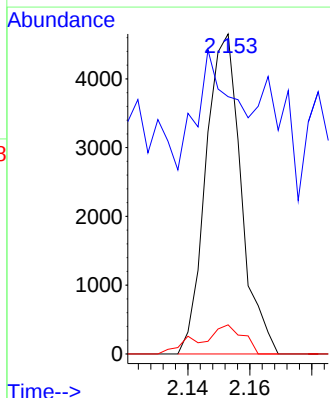
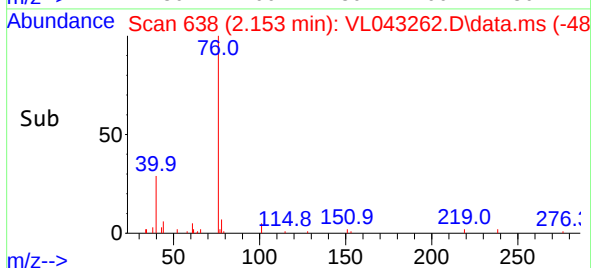
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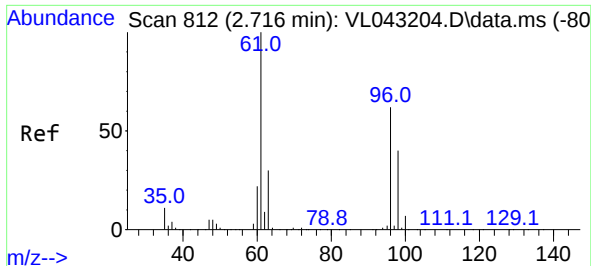


#27
Carbon Disulfide
Concen: 0.264 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.007 min
Lab File: VL043262.D
Acq: 20 Nov 2025 13:24



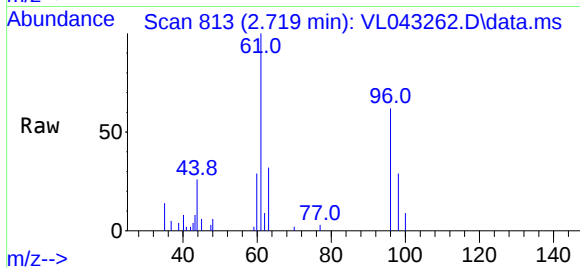
Tgt Ion: 76 Resp: 3676
Ion Ratio Lower Upper
76 100
44 98.2 16.1 24.1#
78 11.0 9.6 14.4





#31
cis-1,2-Dichloroethene
Concen: 0.175 ppbv
RT: 2.719 min Scan# 812
Delta R.T. 0.003 min
Lab File: VL043262.D
Acq: 20 Nov 2025 13:24

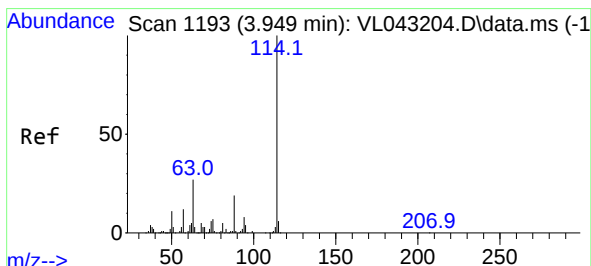
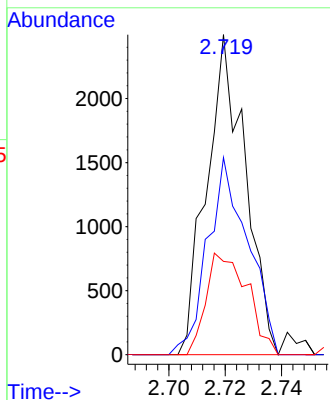
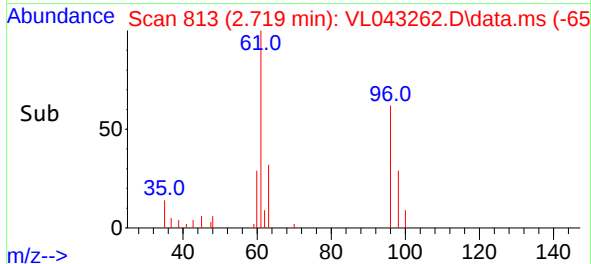
Instrument :
MSVOA_L
ClientSampleId :
SG-2



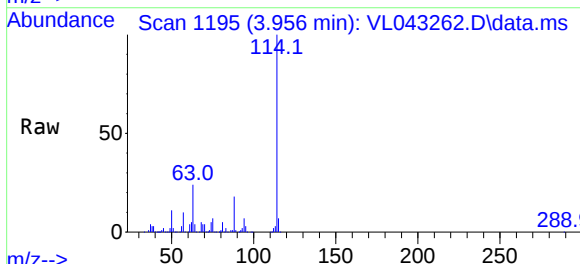
Tgt Ion: 61 Resp: 2370
Ion Ratio Lower Upper
61 100
96 61.6 49.3 73.9
98 29.1 32.1 48.1

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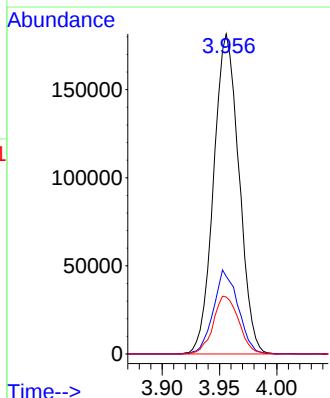
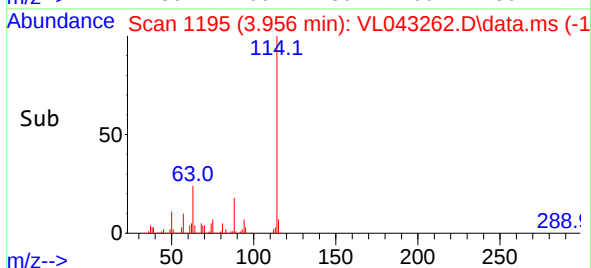
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

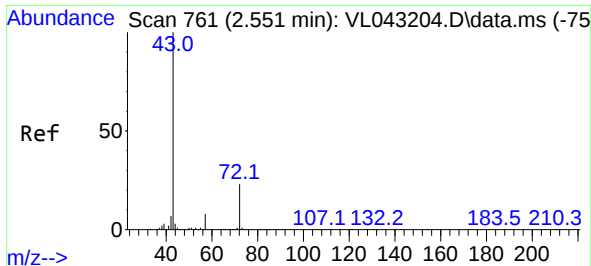


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. 0.007 min
Lab File: VL043262.D
Acq: 20 Nov 2025 13:24



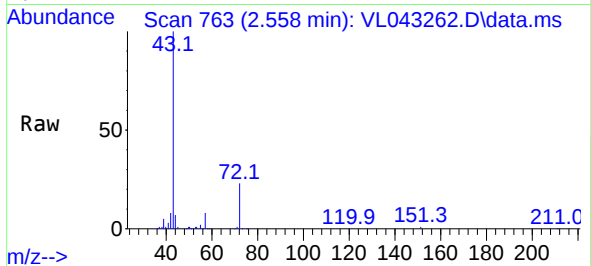
Tgt Ion:114 Resp: 279180
Ion Ratio Lower Upper
114 100
63 25.6 21.0 31.6
88 18.2 14.9 22.3





#34
2-Butanone
Concen: 1.325 ppbv
RT: 2.558 min Scan# 761
Delta R.T. 0.007 min
Lab File: VL043262.D
Acq: 20 Nov 2025 13:24

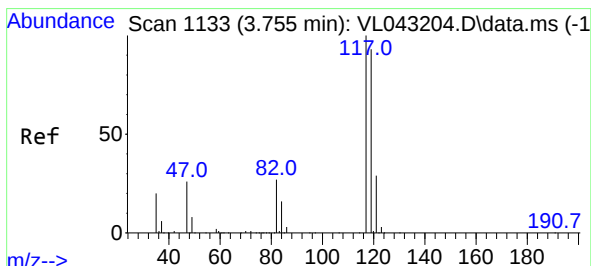
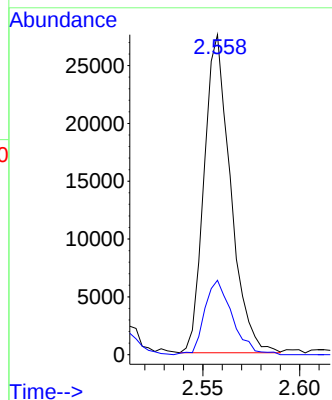
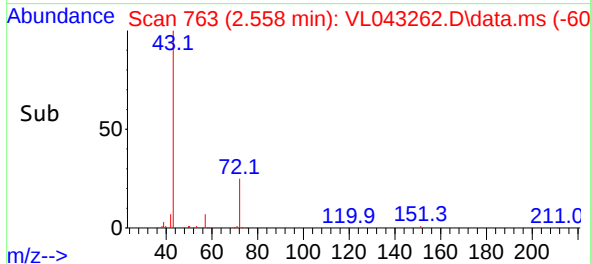
Instrument :
MSVOA_L
ClientSampleId :
SG-2



Tgt Ion: 43 Resp: 2611
Ion Ratio Lower Upper
43 100
72 24.6 18.1 27.1

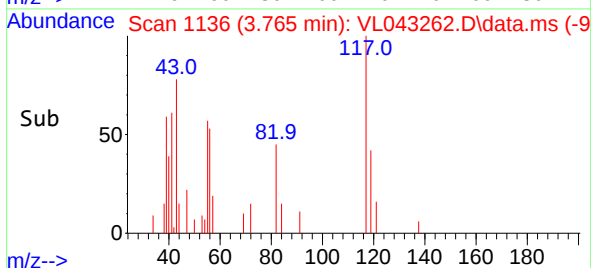
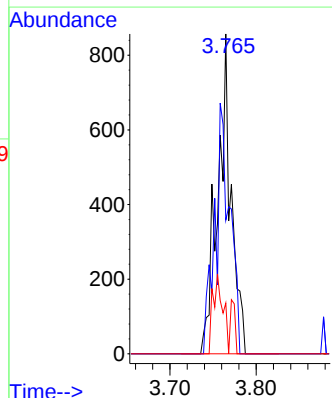
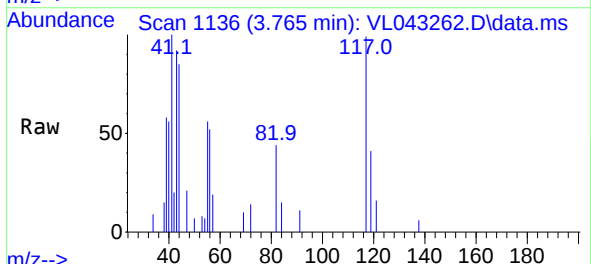
Manual Integrations
APPROVED

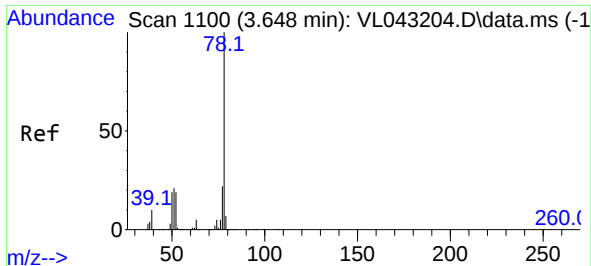
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#35
Carbon Tetrachloride
Concen: 0.044 ppbv m
RT: 3.765 min Scan# 1136
Delta R.T. 0.010 min
Lab File: VL043262.D
Acq: 20 Nov 2025 13:24

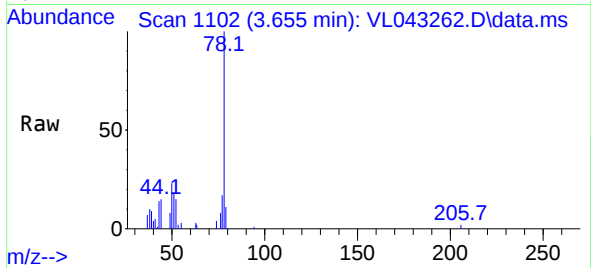
Tgt Ion:117 Resp: 934
Ion Ratio Lower Upper
117 100
119 41.8 74.6 112.0#
121 15.9 23.2 34.8#





#36
Benzene
Concen: 0.211 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.007 min
Lab File: VL043262.D
Acq: 20 Nov 2025 13:24

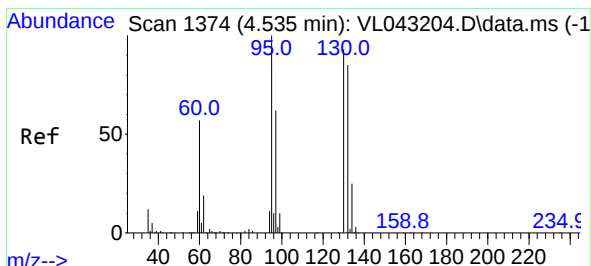
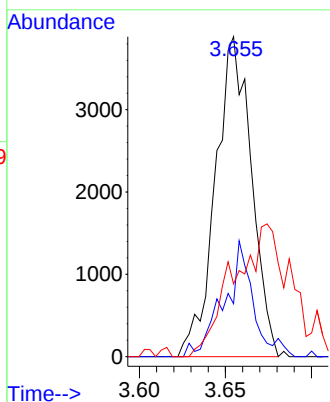
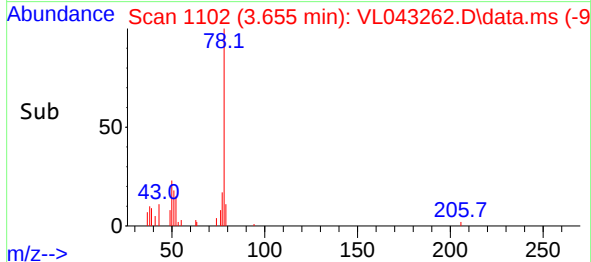
Instrument :
MSVOA_L
ClientSampleId :
SG-2



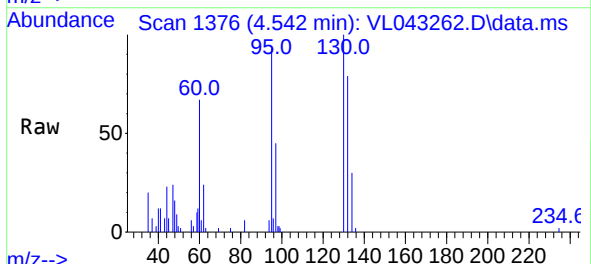
Tgt Ion: 78 Resp: 5648
Ion Ratio Lower Upper
78 100
77 16.6 17.5 26.3
50 22.8 15.5 23.3

Manual Integrations
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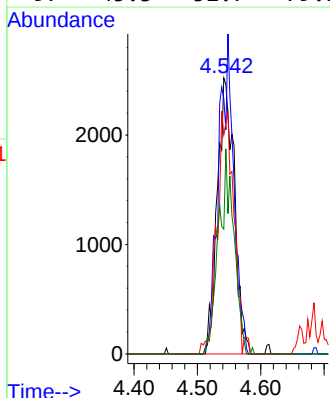
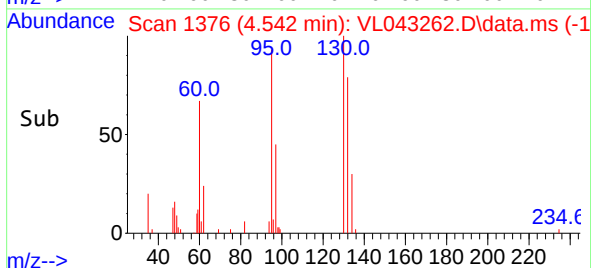
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

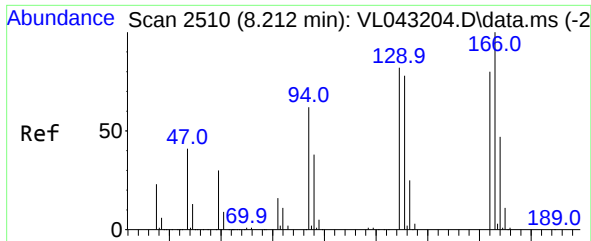


#38
Trichloroethene
Concen: 0.449 ppbv m
RT: 4.542 min Scan# 1376
Delta R.T. 0.007 min
Lab File: VL043262.D
Acq: 20 Nov 2025 13:24



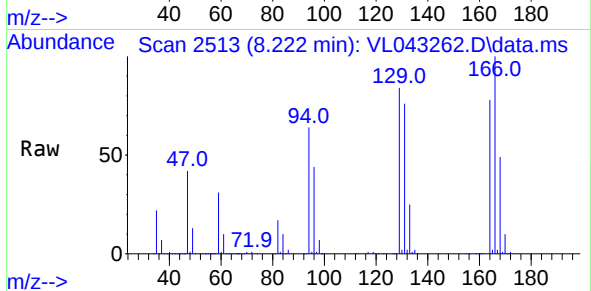
Tgt Ion:130 Resp: 4693
Ion Ratio Lower Upper
130 100
95 92.6 85.7 128.5
132 79.5 73.4 110.0
97 45.3 52.7 79.1#





#52
Tetrachloroethene
Concen: 29.432 ppbv
RT: 8.222 min Scan# 2113
Delta R.T. 0.010 min
Lab File: VL043262.D
Acq: 20 Nov 2025 13:24

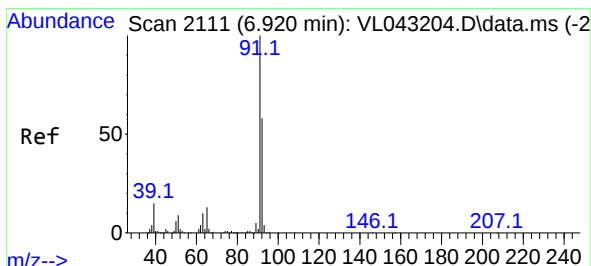
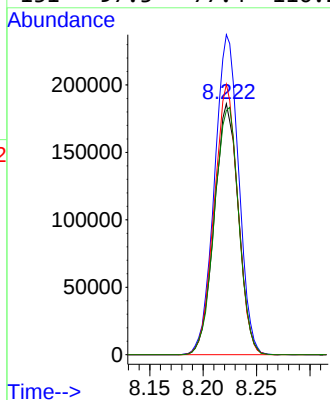
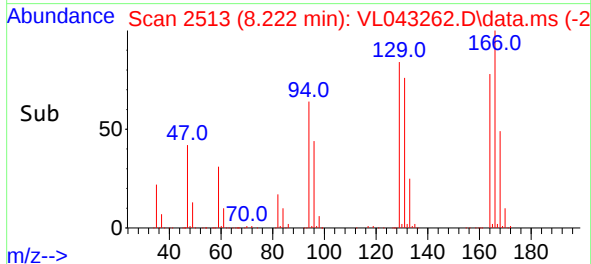
Instrument :
MSVOA_L
ClientSampleId :
SG-2



Tgt Ion:164 Resp: 292708
Ion Ratio Lower Upper
164 100
166 127.6 99.4 149.2
129 107.8 81.8 122.8
131 97.3 77.4 116.2

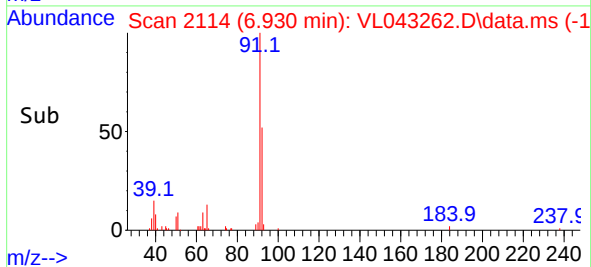
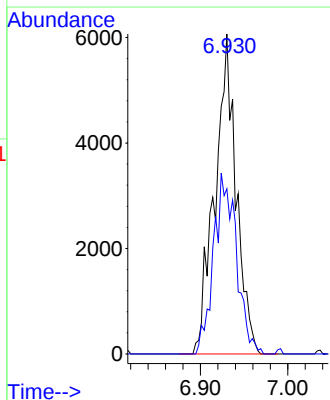
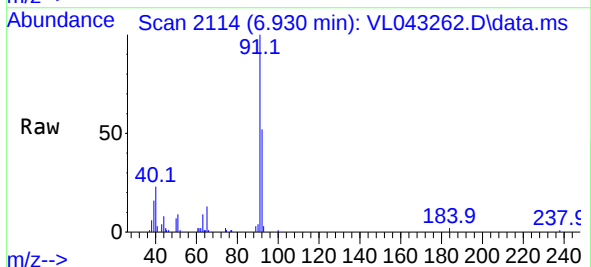
Manual Integrations
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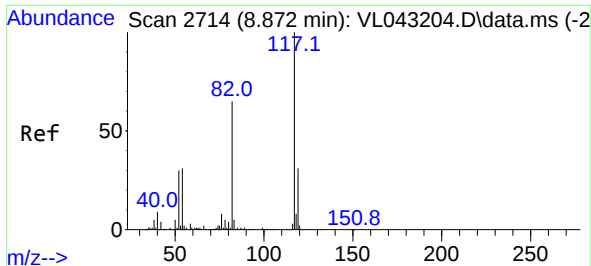
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#53
Toluene
Concen: 0.324 ppbv m
RT: 6.930 min Scan# 2114
Delta R.T. 0.010 min
Lab File: VL043262.D
Acq: 20 Nov 2025 13:24

Tgt Ion: 91 Resp: 10271
Ion Ratio Lower Upper
91 100
92 60.2 47.4 71.0





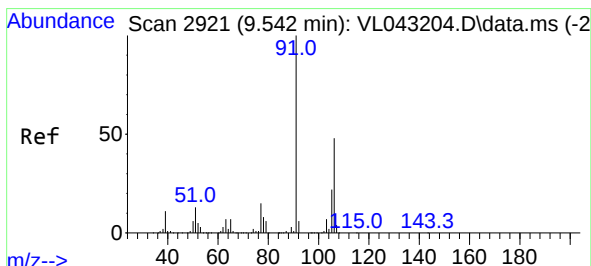
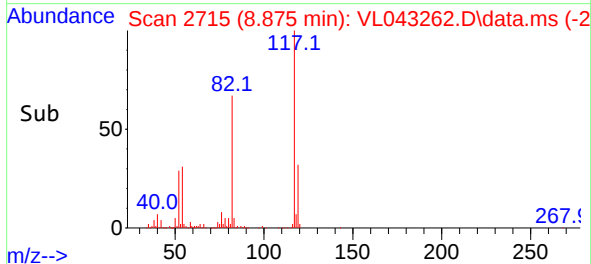
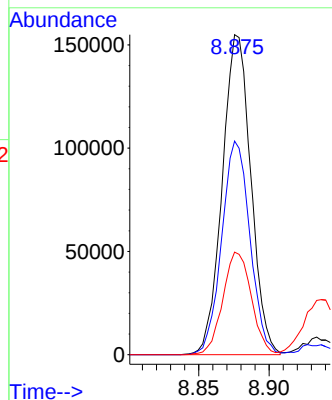
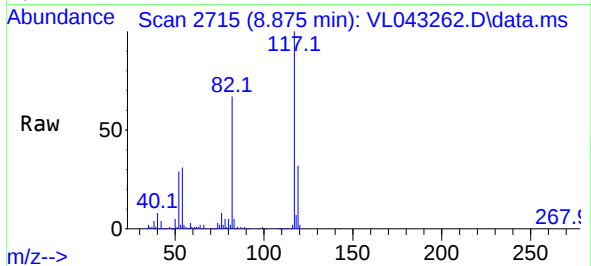
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21934
Delta R.T. 0.003 min
Lab File: VL043262.D
Acq: 20 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
SG-2

Tgt Ion:117 Resp: 21934
Ion Ratio Lower Upper
117 100
82 66.1 56.1 84.1
119 31.9 25.0 37.6

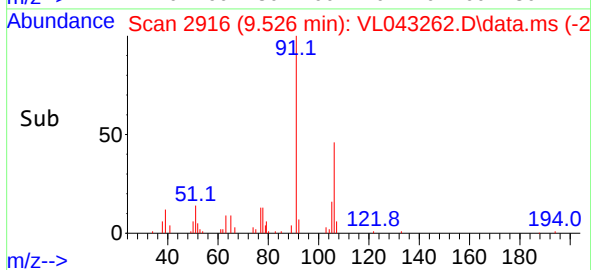
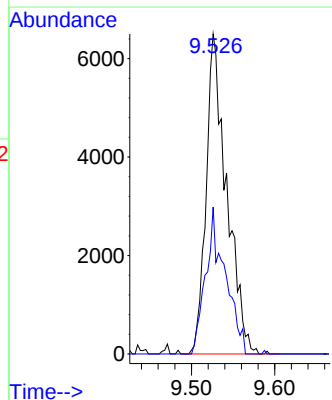
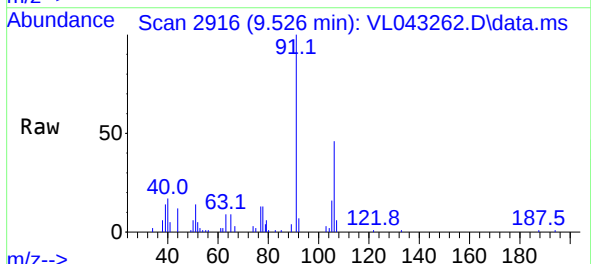
Manual Integrations
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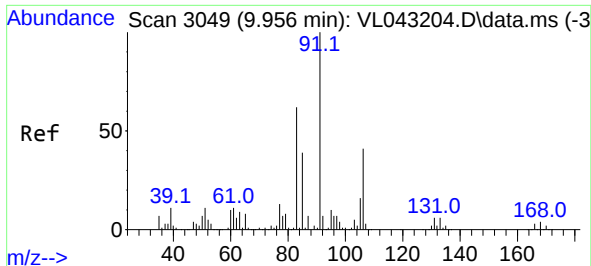
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#59
m/p-Xylene
Concen: 0.328 ppbv m
RT: 9.526 min Scan# 2916
Delta R.T. -0.016 min
Lab File: VL043262.D
Acq: 20 Nov 2025 13:24

Tgt Ion: 91 Resp: 11087
Ion Ratio Lower Upper
91 100
106 0.0 36.1 54.1#





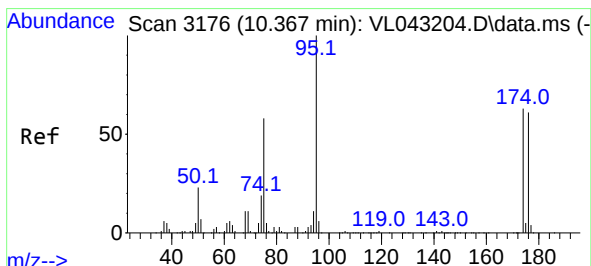
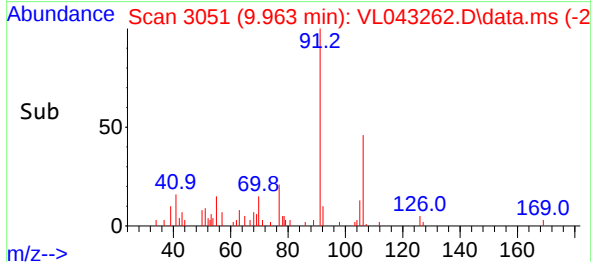
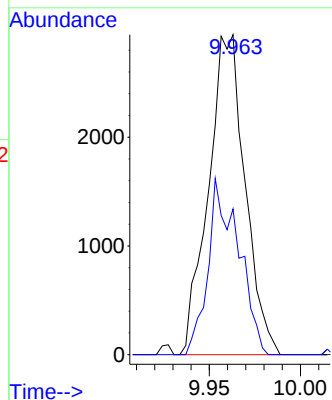
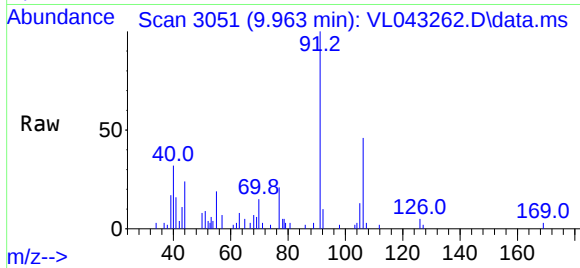
#60
o-Xylene
Concen: 0.122 ppbv
RT: 9.963 min Scan# 3049
Delta R.T. 0.007 min
Lab File: VL043262.D
Acq: 20 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
SG-2

Tgt Ion: 91 Resp: 4110
Ion Ratio Lower Upper
91 100
106 45.8 20.9 62.8

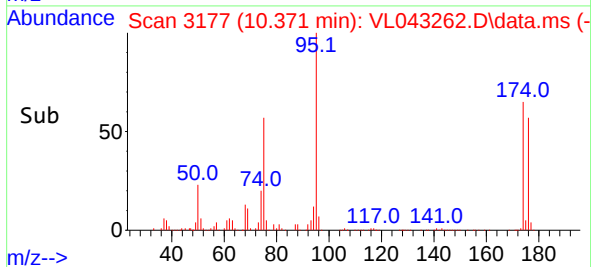
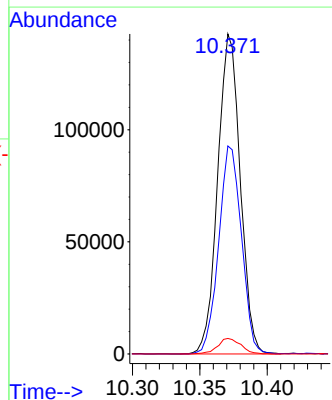
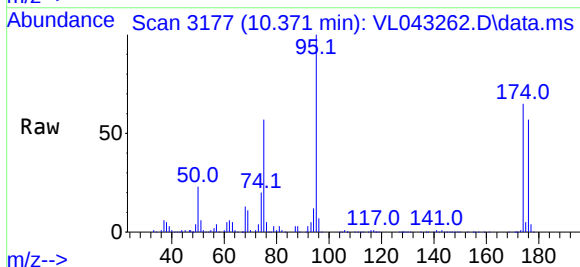
Manual Integrations
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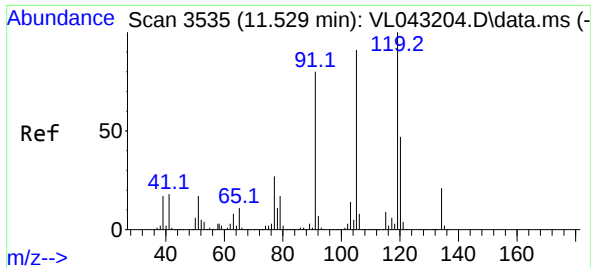
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.329 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043262.D
Acq: 20 Nov 2025 13:24

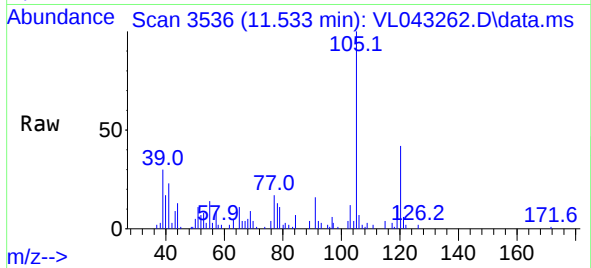
Tgt Ion: 95 Resp: 166068
Ion Ratio Lower Upper
95 100
174 65.7 50.2 75.2
175 5.0 4.1 6.1





#74
1,2,4-Trimethylbenzene
Concen: 0.173 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043262.D
Acq: 20 Nov 2025 13:24

Instrument :
MSVOA_L
ClientSampleId :
SG-2



Tgt Ion:105 Resp: 652
Ion Ratio Lower Upper
105 100
120 41.6 41.7 62.5
91 16.3 70.0 105.0
77 14.6 23.8 35.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

