

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
 Data File : VL043237.D
 Acq On : 19 Nov 2025 13:50
 Operator : SY/MD
 Sample : Q3626-03 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 9B-SG-1

Quant Time: Nov 20 00:04:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Nov 19 01:11:25 2025
 Response via : Initial Calibration

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

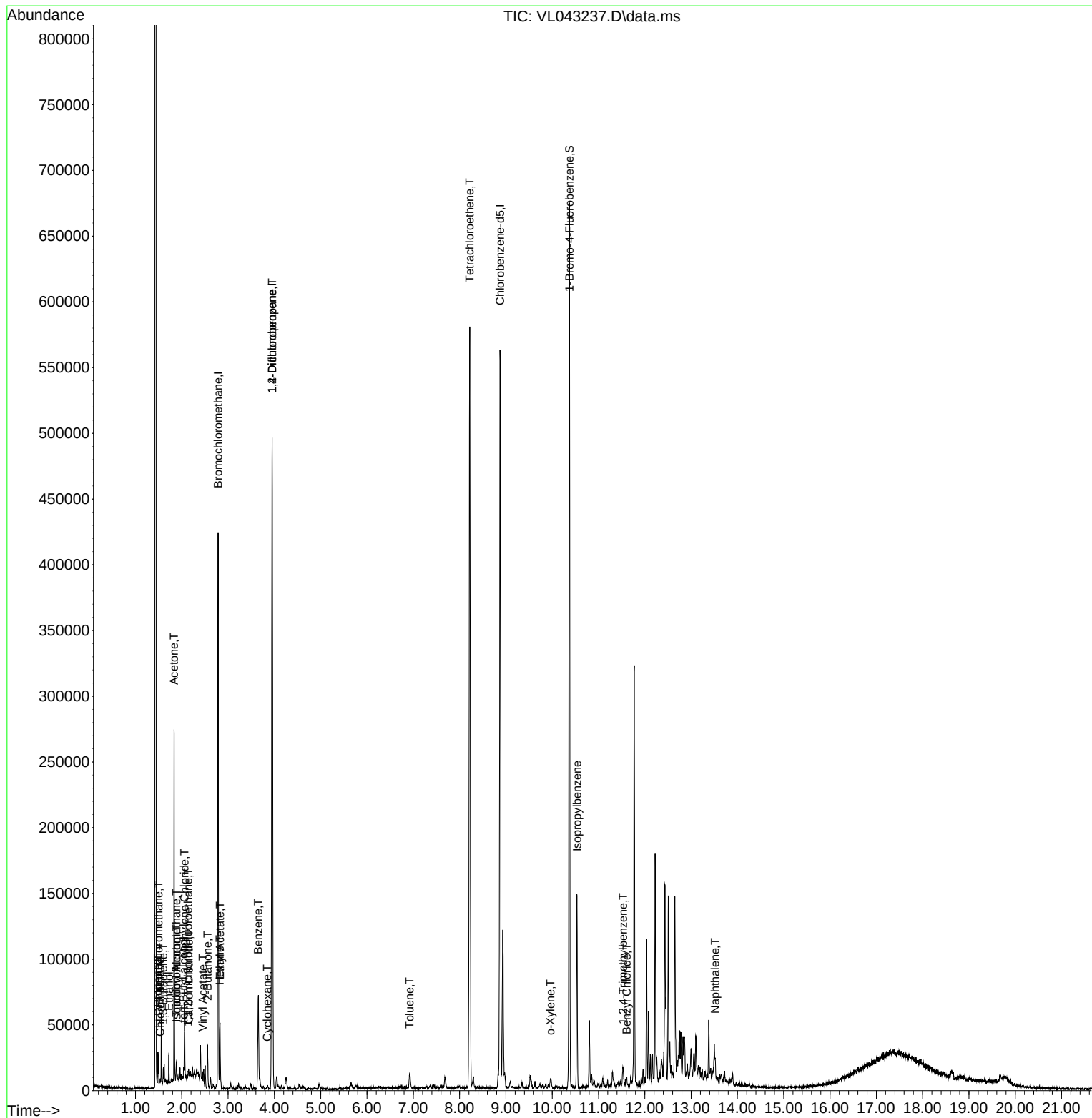
Internal Standards						
1) Bromochloromethane	2.784	49	102616	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	290774	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	231142	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	167299	9.874	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	4164	0.288	ppbv #	84
4) Chloromethane	1.531	50	635	0.117	ppbv #	88
9) Propene	1.486	41	2474	0.409	ppbv #	1
11) Trichlorofluoromethane	1.881	101	1987	0.142	ppbv	84
12) 1,1,2-Trichlorotrifluo...	2.136	101	672	0.061	ppbv	84
13) Ethanol	1.722	45	7021	3.303	ppbv #	38
15) Acetone	1.832	43	117974	8.275	ppbv	97
16) 1,3-Butadiene	1.599	39	1887	0.297	ppbv #	36
17) tert-Butyl alcohol	2.039	59	3430	0.183	ppbv #	82
19) Isopropyl Alcohol	1.887	45	4299	0.534	ppbv #	1
20) Methylene Chloride	2.059	84	8293	1.290	ppbv #	85
23) Vinyl Acetate	2.454	43	1129	0.066	ppbv #	70
25) Ethyl Acetate	2.822	43	8280	0.269	ppbv #	78
26) Hexane	2.819	57	10878	0.807	ppbv #	42
27) Carbon Disulfide	2.149	76	1914	0.139	ppbv #	1
30) Cyclohexane	3.845	84	356	0.031	ppbv #	27
34) 2-Butanone	2.557	43	20773	1.012	ppbv	99
36) Benzene	3.651	78	43150	1.550	ppbv	97
39) 1,2-Dichloropropane	3.952	63	74125	7.273	ppbv #	23
52) Tetrachloroethene	8.218	164	99519	9.608	ppbv	98
53) Toluene	6.920	91	5000	0.152	ppbv #	46
60) o-Xylene	9.959	91	2126	0.060	ppbv	99
62) Isopropylbenzene	10.535	105	66231	1.039	ppbv	100
66) Benzyl Chloride	11.607	91	232	0.040	ppbv #	1
74) 1,2,4-Trimethylbenzene	11.529	105	2816	0.071	ppbv #	54
79) Naphthalene	13.516	128	1186	0.034	ppbv #	87

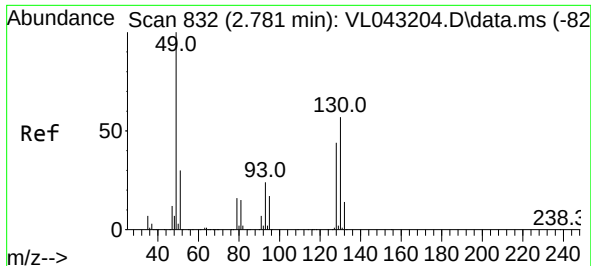
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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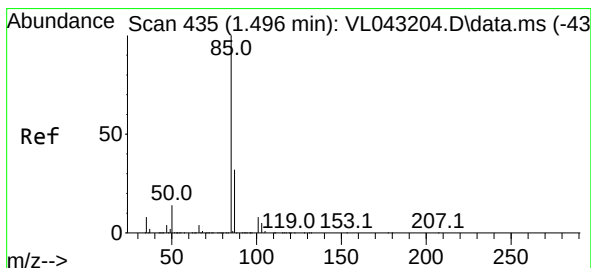
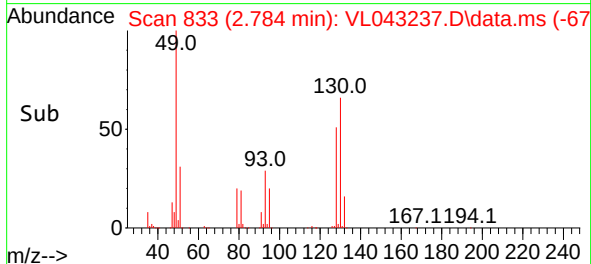
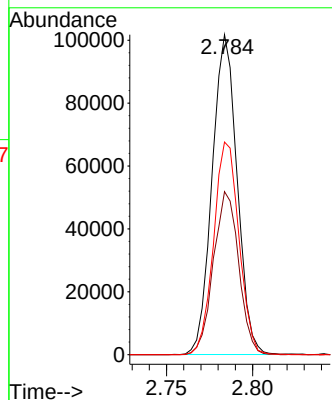
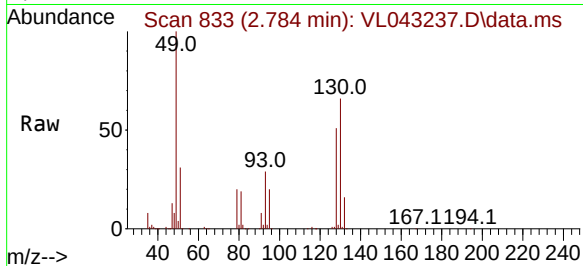




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

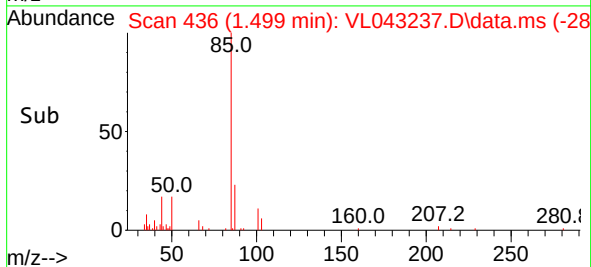
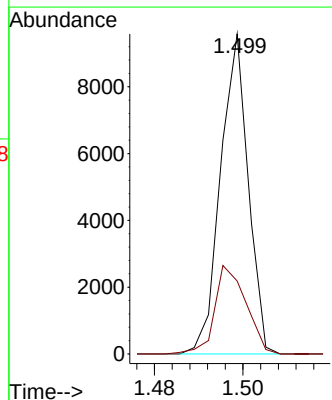
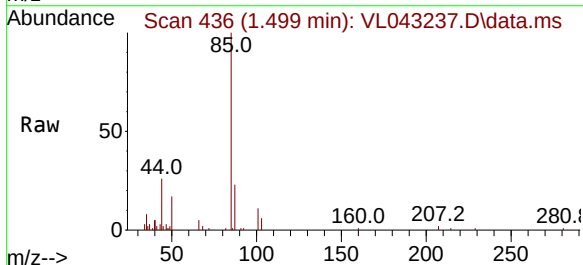
Instrument :
MSVOA_1
ClientSampleId :
9B-SG-1

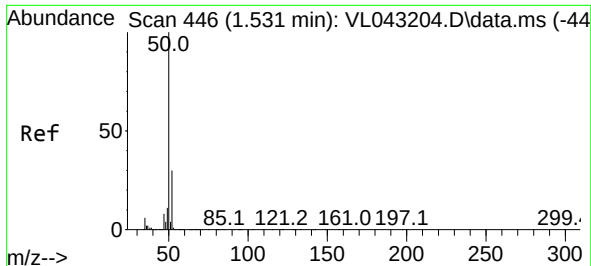
Tgt Ion: 49 Resp: 102616
Ion Ratio Lower Upper
49 100
128 51.8 23.0 69.0
130 67.5 29.9 89.7



#2
Dichlorodifluoromethane
Concen: 0.288 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 85 Resp: 4164
Ion Ratio Lower Upper
85 100
87 22.8 25.4 38.2#

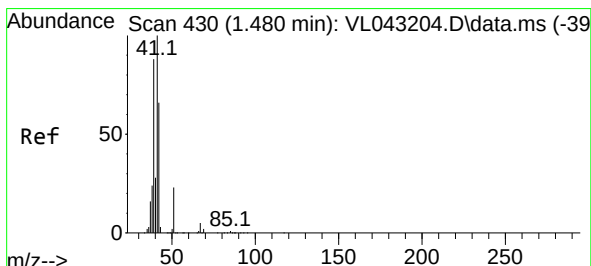
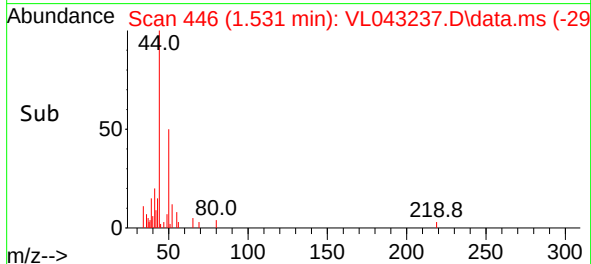
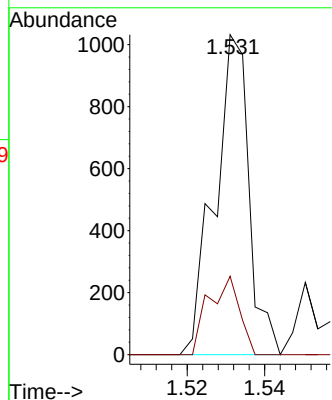
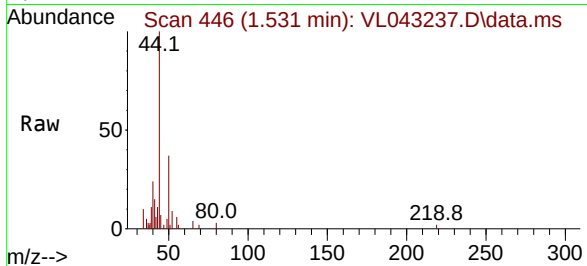




#4
Chloromethane
Concen: 0.117 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

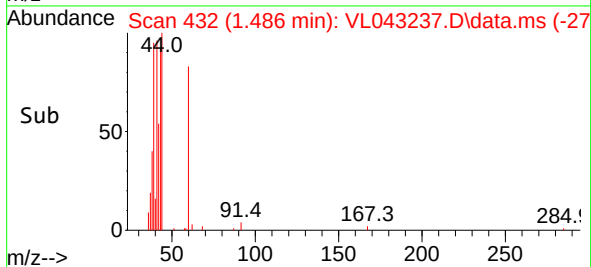
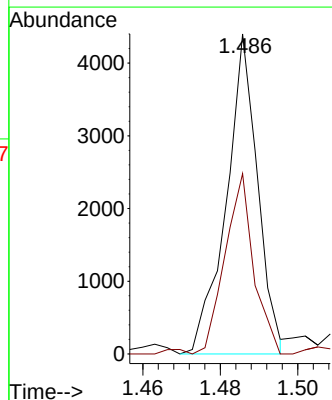
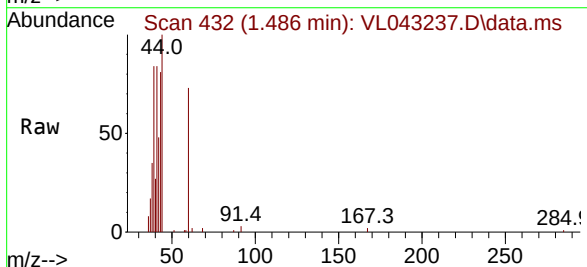
Instrument :
MSVOA_L
ClientSampleId :
9B-SG-1

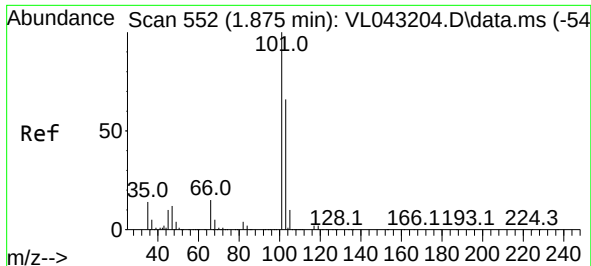
Tgt Ion: 50 Resp: 635
Ion Ratio Lower Upper
50 100
52 23.4 24.1 36.1#



#9
Propene
Concen: 0.409 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.006 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 41 Resp: 2474
Ion Ratio Lower Upper
41 100
42 54.9 3.7 5.5#

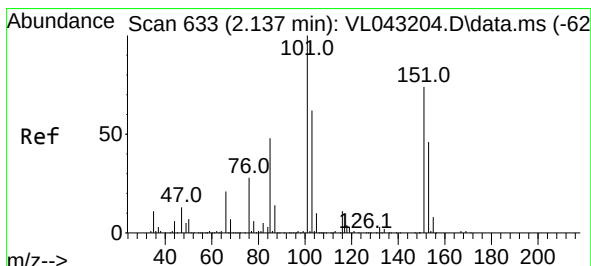
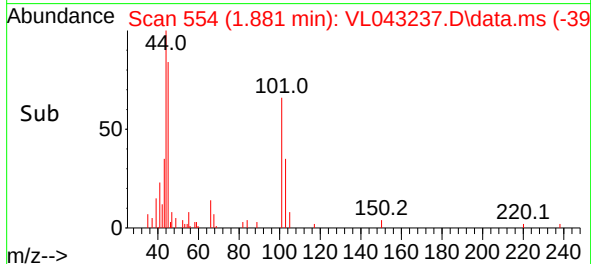
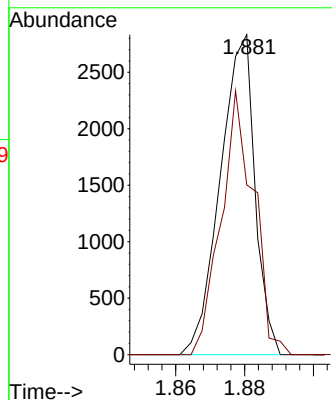
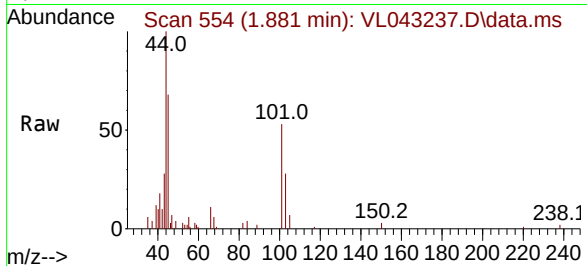




#11
Trichlorofluoromethane
Concen: 0.142 ppbv
RT: 1.881 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

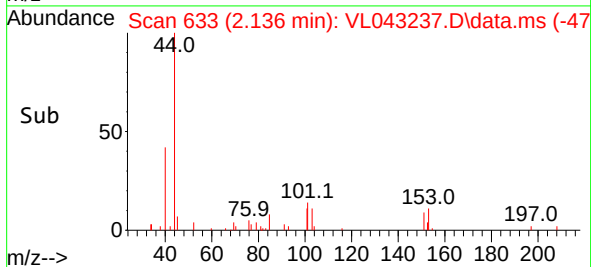
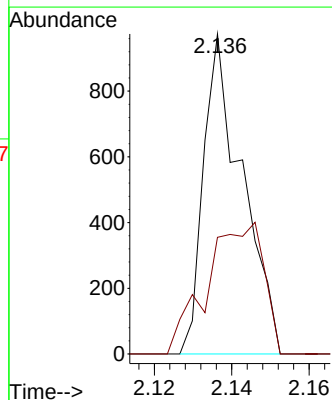
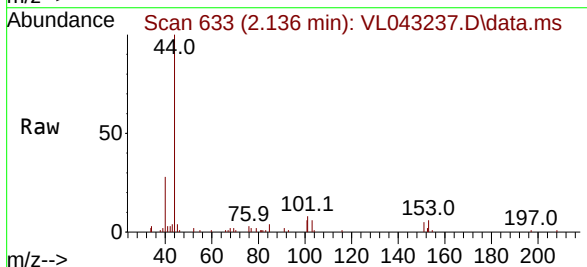
Instrument :
MSVOA_1
ClientSampleId :
9B-SG-1

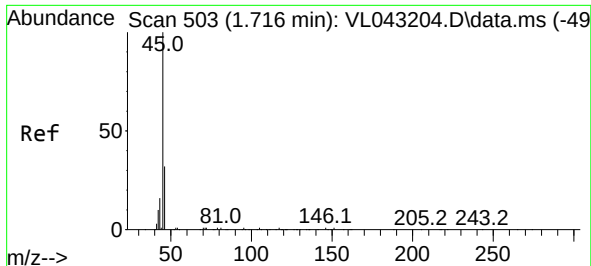
Tgt Ion:101 Resp: 1987
Ion Ratio Lower Upper
101 100
103 53.1 52.6 79.0



#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.061 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion:101 Resp: 672
Ion Ratio Lower Upper
101 100
151 60.7 59.2 88.8

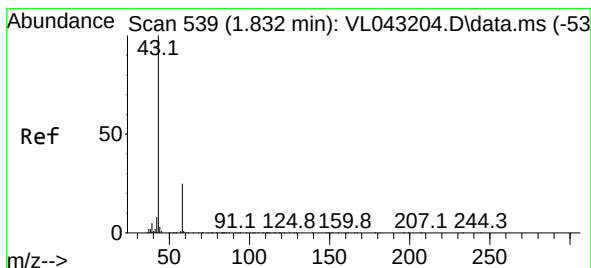
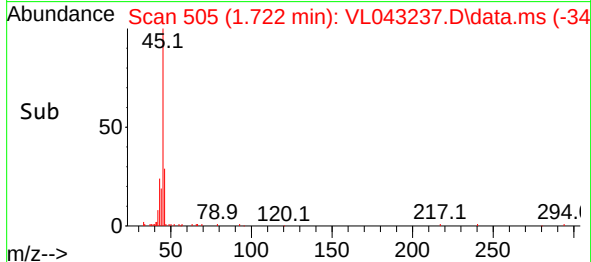
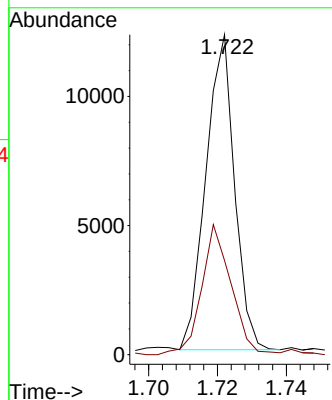
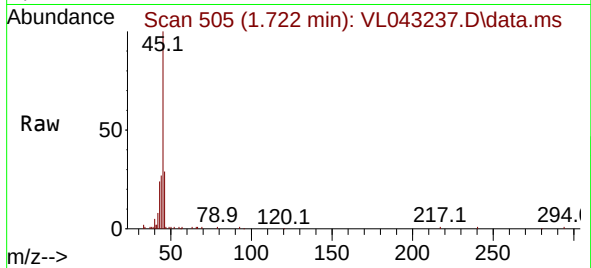




#13
 Ethanol
 Concen: 3.303 ppbv
 RT: 1.722 min Scan# 503
 Delta R.T. 0.006 min
 Lab File: VL043237.D
 Acq: 19 Nov 2025 13:50

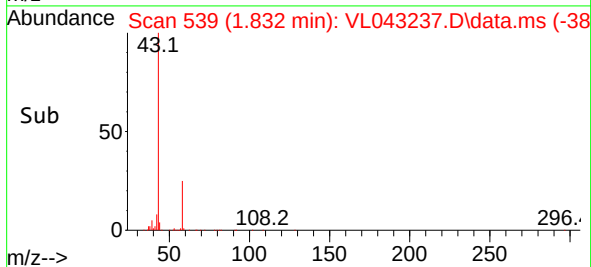
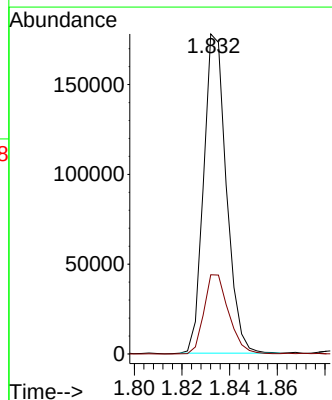
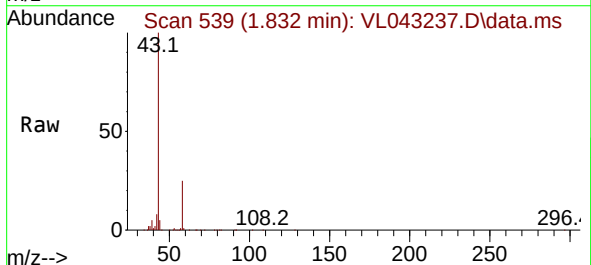
Instrument :
 MSVOA_1
 ClientSampleId :
 9B-SG-1

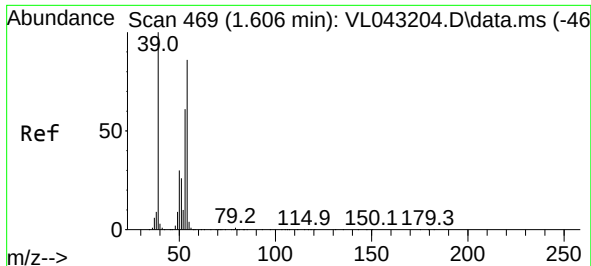
Tgt Ion: 45 Resp: 7021
 Ion Ratio Lower Upper
 45 100
 46 0.0 15.0 59.8#



#15
 Acetone
 Concen: 8.275 ppbv
 RT: 1.832 min Scan# 539
 Delta R.T. -0.000 min
 Lab File: VL043237.D
 Acq: 19 Nov 2025 13:50

Tgt Ion: 43 Resp: 117974
 Ion Ratio Lower Upper
 43 100
 58 27.3 20.7 31.1

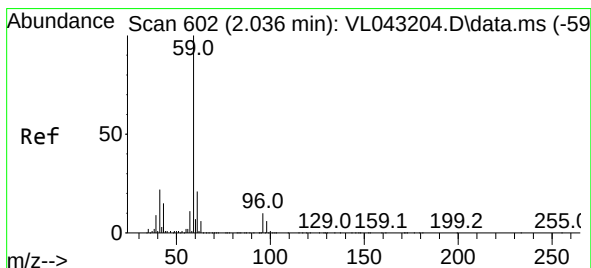
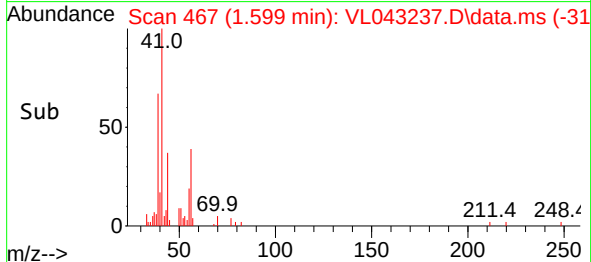
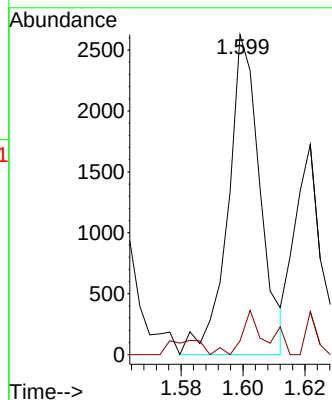
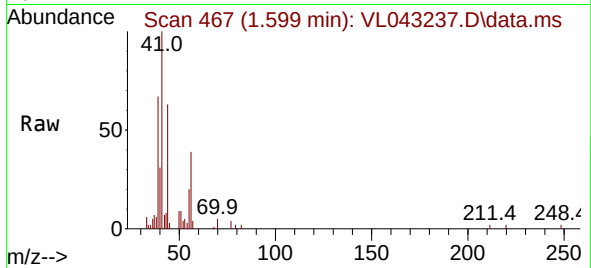




#16
1,3-Butadiene
Concen: 0.297 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.007 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

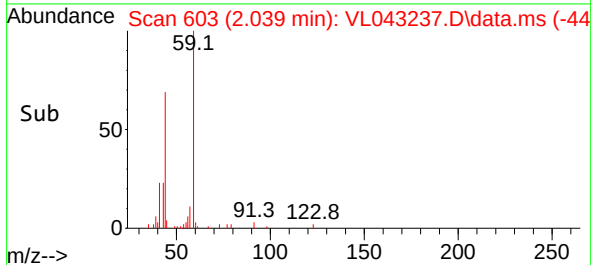
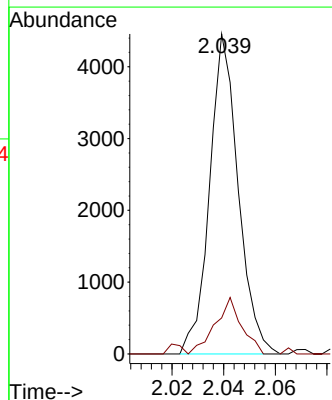
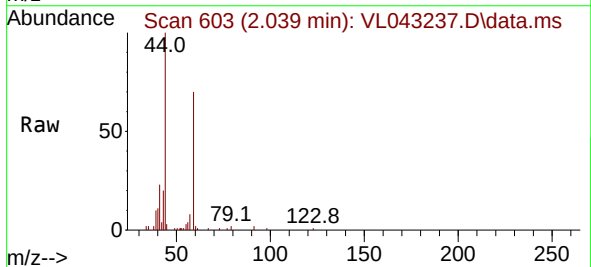
Instrument :
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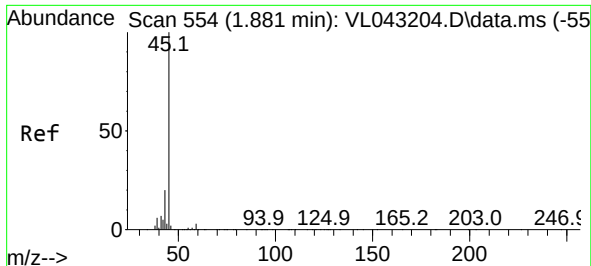
Tgt Ion: 39 Resp: 1887
Ion Ratio Lower Upper
39 100
54 19.8 59.4 89.2#



#17
tert-Butyl alcohol
Concen: 0.183 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 59 Resp: 3430
Ion Ratio Lower Upper
59 100
57 18.2 9.0 13.4#

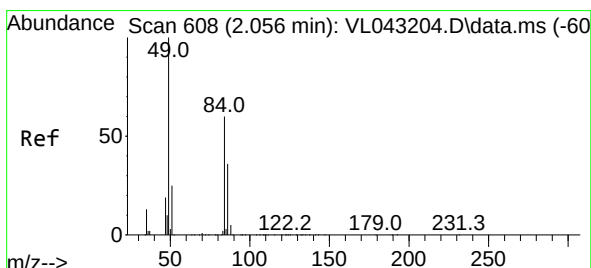
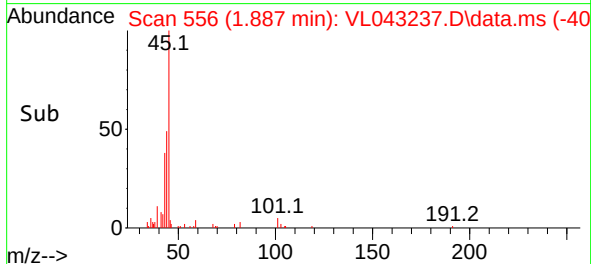
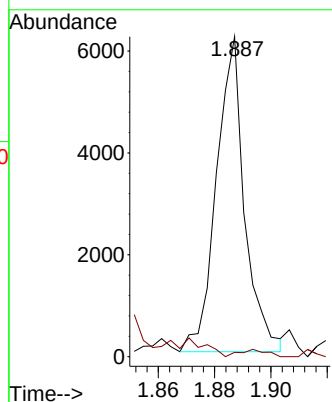
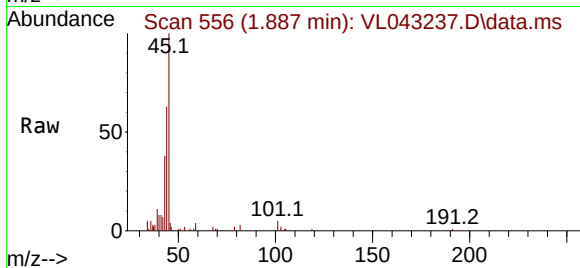




#19
Isopropyl Alcohol
Concen: 0.534 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.006 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

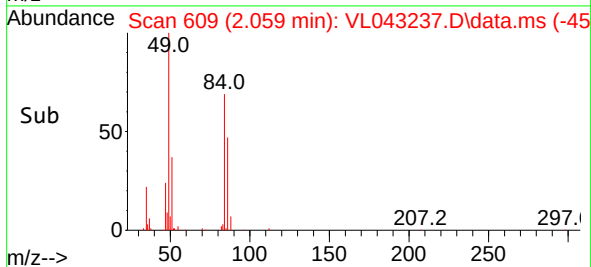
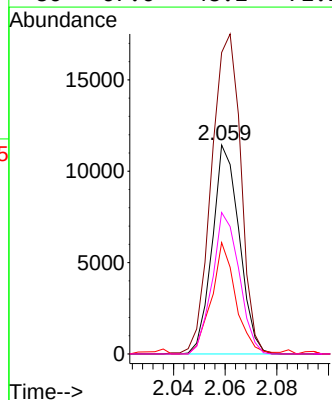
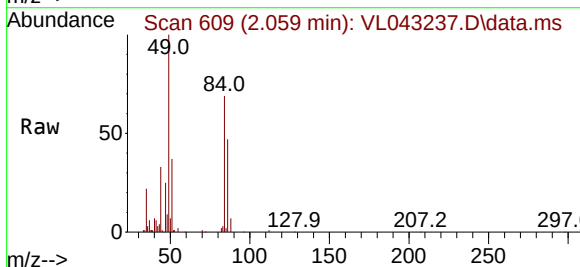
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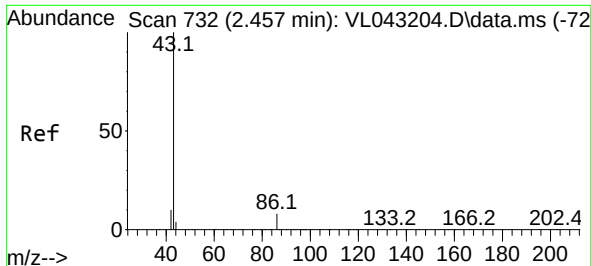
Tgt Ion: 45 Resp: 4299
Ion Ratio Lower Upper
45 100
58 750.3 31.3 46.9#



#20
Methylene Chloride
Concen: 1.290 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 84 Resp: 8293
Ion Ratio Lower Upper
84 100
49 144.2 132.9 199.3
51 53.3 34.8 52.2#
86 67.6 48.2 72.2

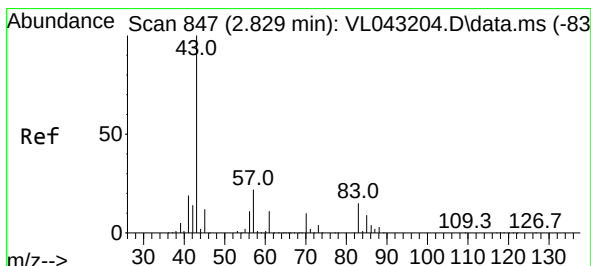
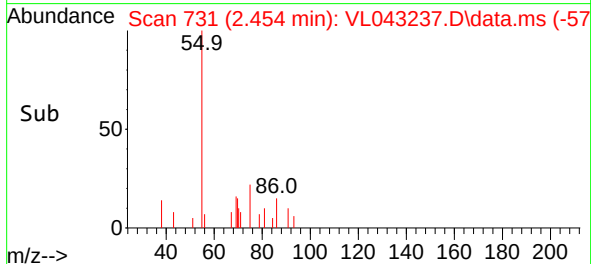
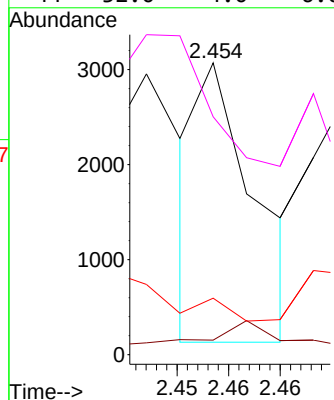
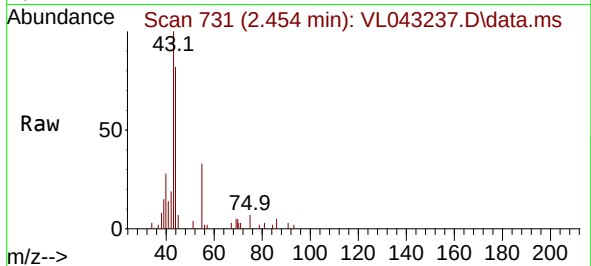




#23
 Vinyl Acetate
 Concen: 0.066 ppbv
 RT: 2.454 min Scan# 71
 Delta R.T. -0.004 min
 Lab File: VL043237.D
 Acq: 19 Nov 2025 13:50

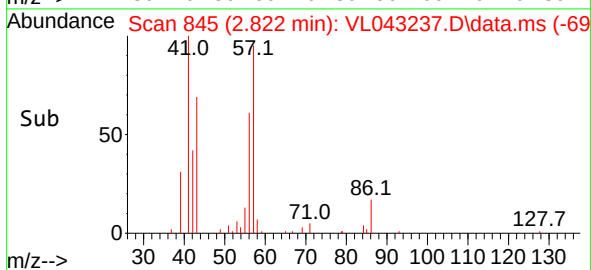
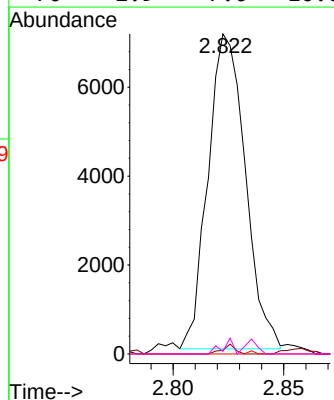
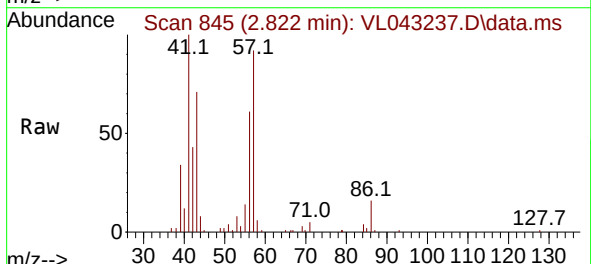
Instrument :
 MSVOA_1
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 9B-SG-1

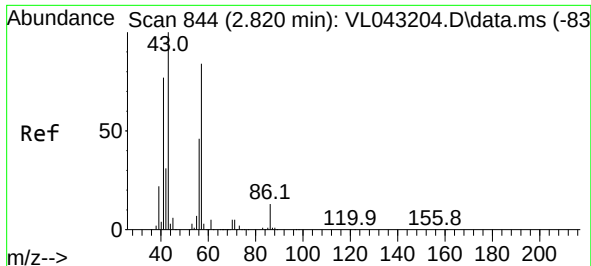
Tgt Ion: 43	Resp:	1129
Ion Ratio	Lower	Upper
43 100		
86 0.3	6.2	9.2#
42 13.8	8.0	12.0#
44 32.0	4.0	6.0#



#25
 Ethyl Acetate
 Concen: 0.269 ppbv
 RT: 2.822 min Scan# 845
 Delta R.T. -0.007 min
 Lab File: VL043237.D
 Acq: 19 Nov 2025 13:50

Tgt	Ion: 43	Resp:	8280
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.1	12.1#
61	0.4	7.0	10.4#
70	2.9	7.0	10.6#

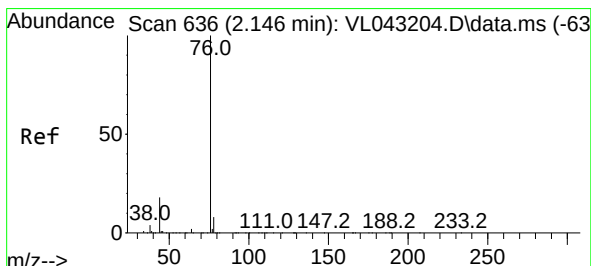
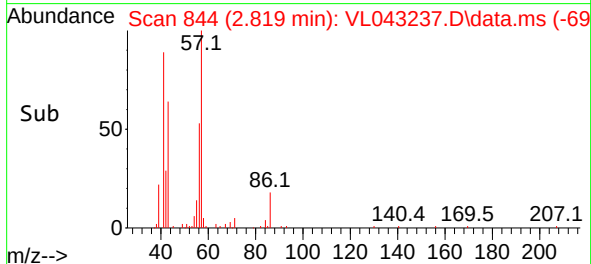
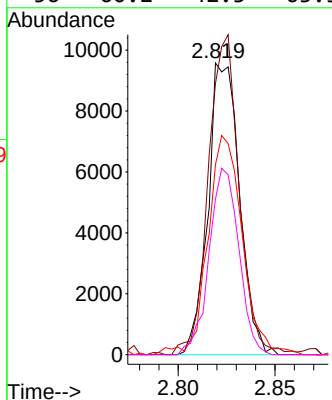
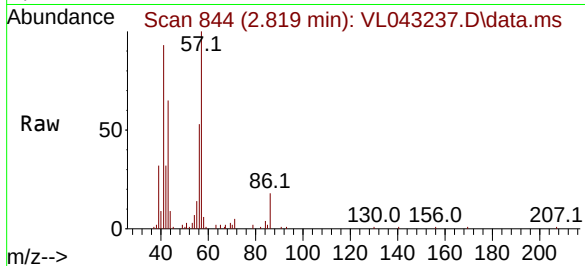




#26
Hexane
Concen: 0.807 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

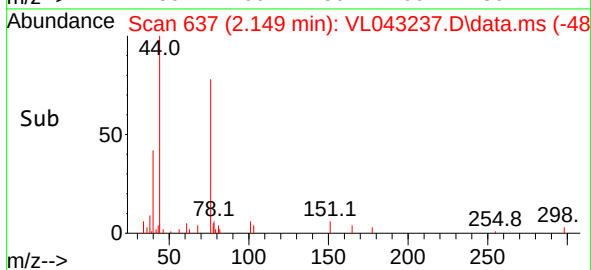
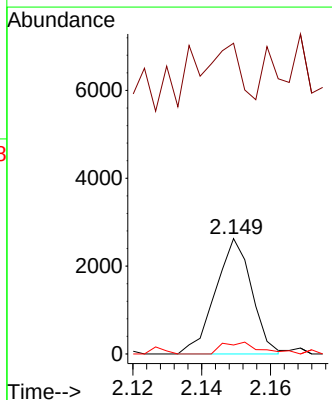
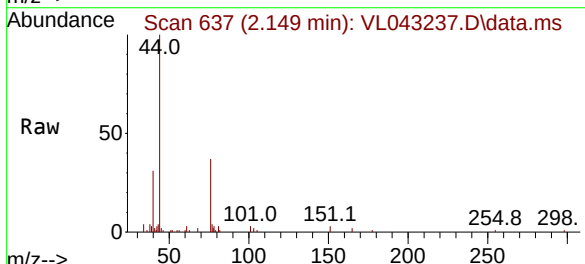
Instrument :
MSVOA_1
ClientSampleId :
9B-SG-1

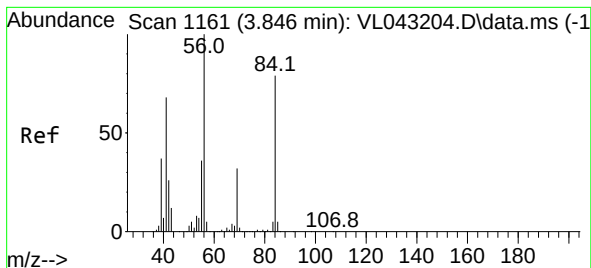
Tgt Ion:	57	Resp:	10878
Ion	Ratio	Lower	Upper
57	100		
41	108.0	74.6	111.8
43	81.7	179.0	268.4#
56	60.2	42.3	63.5



#27
Carbon Disulfide
Concen: 0.139 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion:	76	Resp:	1914
Ion	Ratio	Lower	Upper
76	100		
44	575.5	16.1	24.1#
78	11.4	9.6	14.4





#30

Cyclohexane

Concen: 0.031 ppbv

RT: 3.845 min Scan# 1161

Delta R.T. -0.000 min

Lab File: VL043237.D

Acq: 19 Nov 2025 13:50

Instrument :

MSVOA_1

ClientSampleId :

9B-SG-1

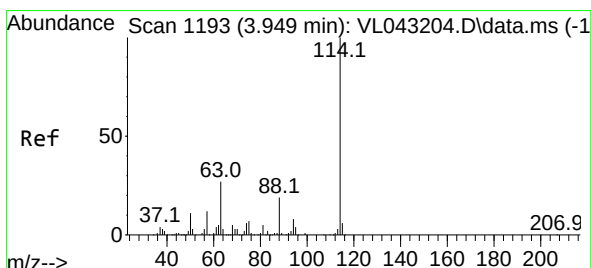
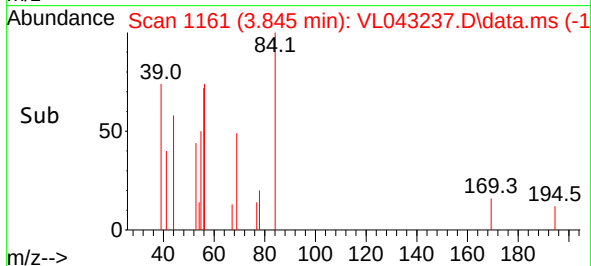
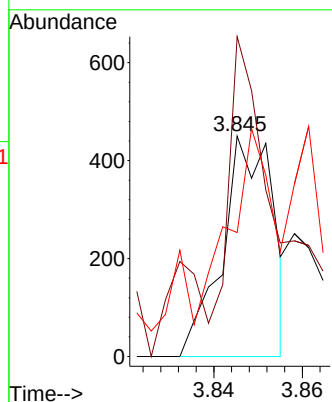
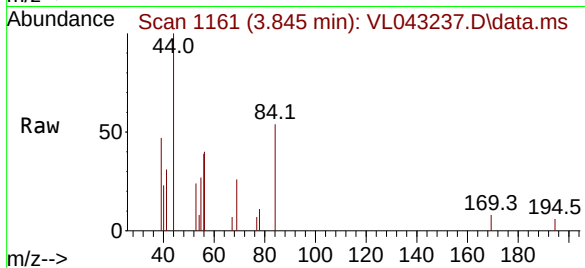
Tgt Ion: 84 Resp: 356

Ion Ratio Lower Upper

84 100

56 200.8 104.7 157.1#

41 0.0 69.0 103.6#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. 0.003 min

Lab File: VL043237.D

Acq: 19 Nov 2025 13:50

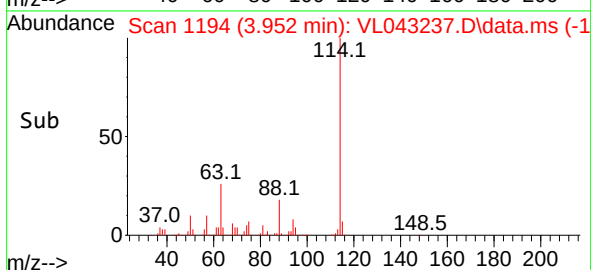
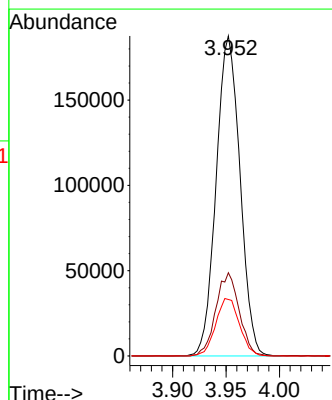
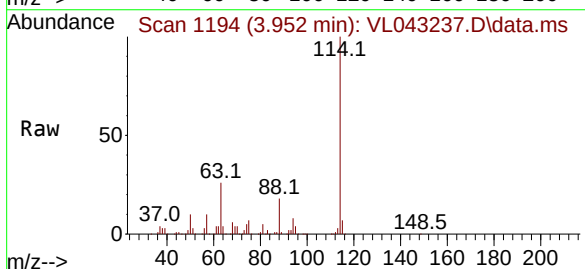
Tgt Ion: 114 Resp: 290774

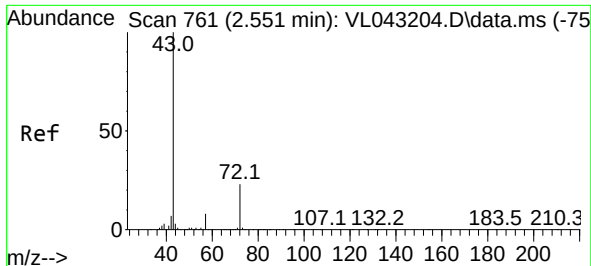
Ion Ratio Lower Upper

114 100

63 25.5 21.0 31.6

88 18.0 14.9 22.3

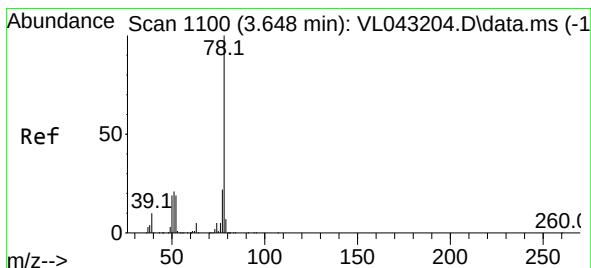
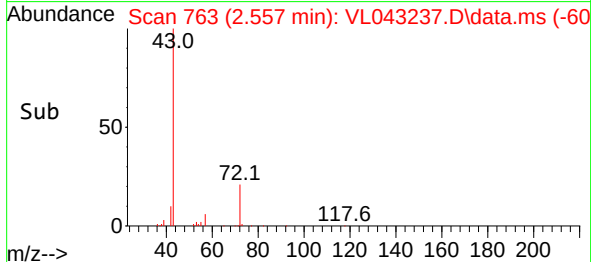
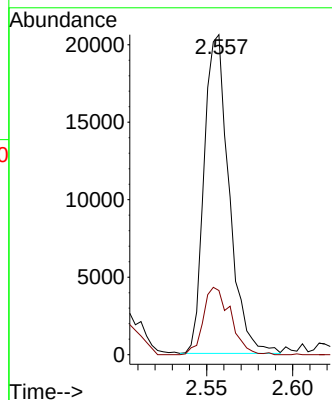
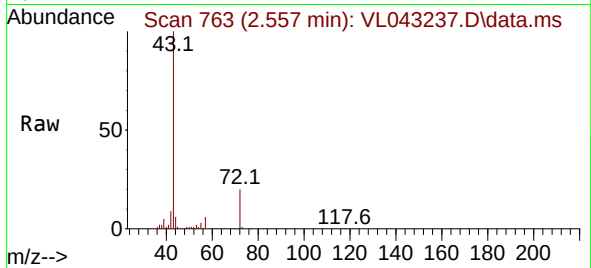




#34
2-Butanone
Concen: 1.012 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.006 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

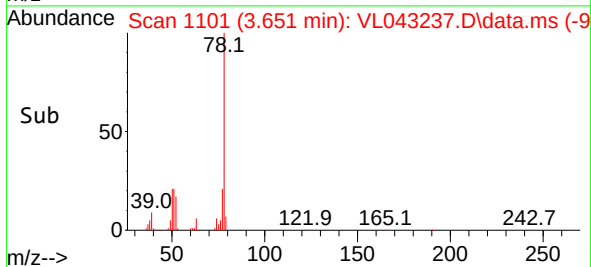
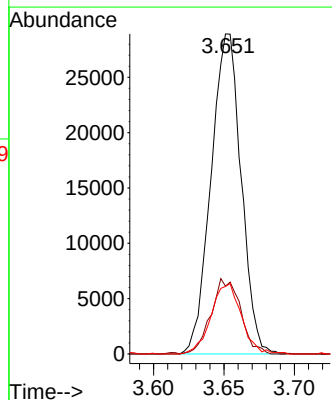
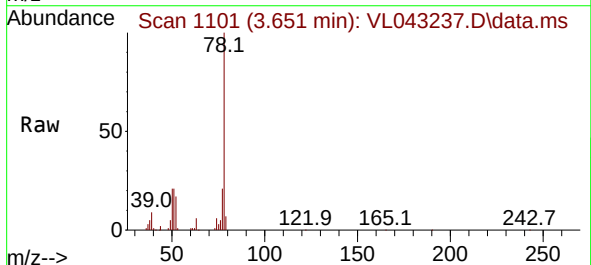
Instrument :
MSVOA_L
ClientSampleId :
9B-SG-1

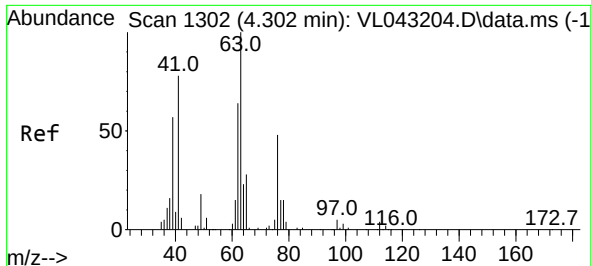
Tgt Ion: 43 Resp: 20773
Ion Ratio Lower Upper
43 100
72 23.1 18.1 27.1



#36
Benzene
Concen: 1.550 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 78 Resp: 43150
Ion Ratio Lower Upper
78 100
77 21.2 17.5 26.3
50 21.1 15.5 23.3





#39

1,2-Dichloropropane

Concen: 7.273 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.350 min

Lab File: VL043237.D

Acq: 19 Nov 2025 13:50

Instrument :

MSVOA_1

ClientSampleId :

9B-SG-1

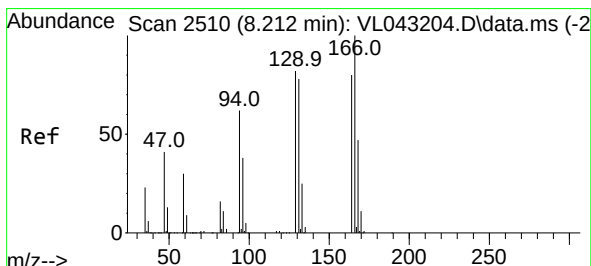
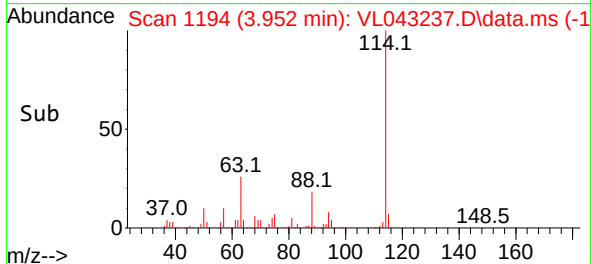
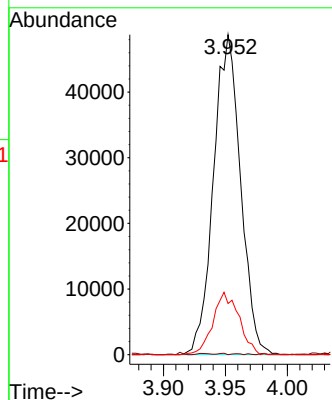
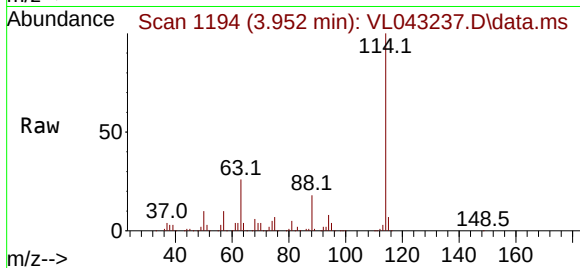
Tgt Ion: 63 Resp: 74125

Ion Ratio Lower Upper

63 100

41 0.0 62.6 93.8#

62 16.0 51.0 76.6#



#52

Tetrachloroethene

Concen: 9.608 ppbv

RT: 8.218 min Scan# 2512

Delta R.T. 0.006 min

Lab File: VL043237.D

Acq: 19 Nov 2025 13:50

Tgt Ion:164 Resp: 99519

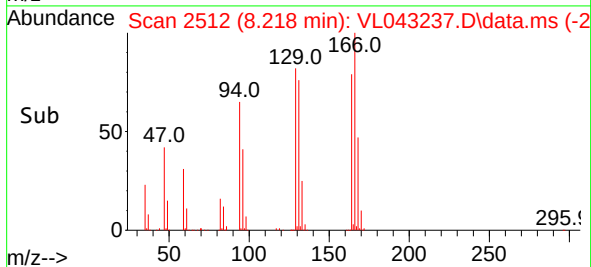
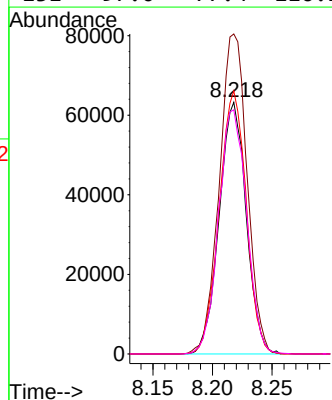
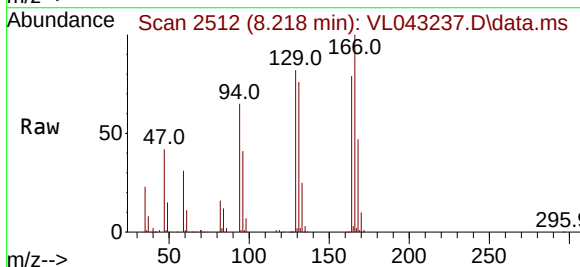
Ion Ratio Lower Upper

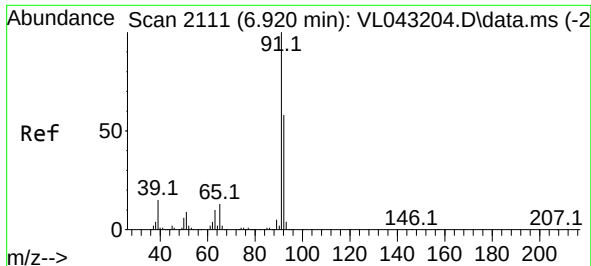
164 100

166 127.1 99.4 149.2

129 104.5 81.8 122.8

131 97.0 77.4 116.2

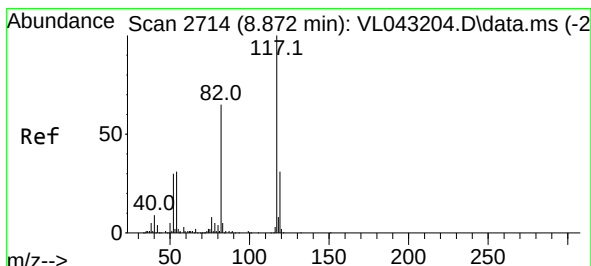
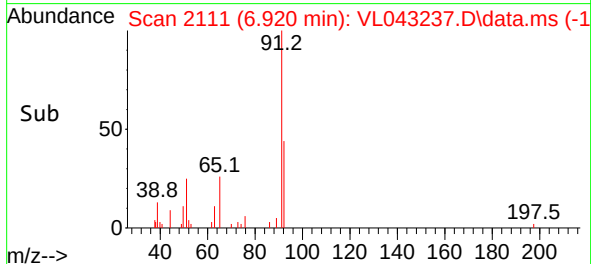
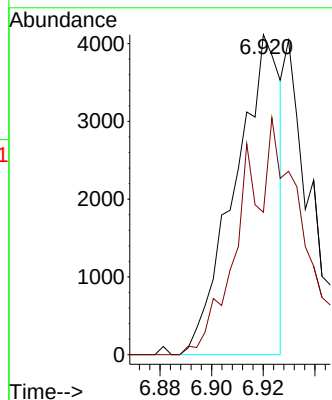
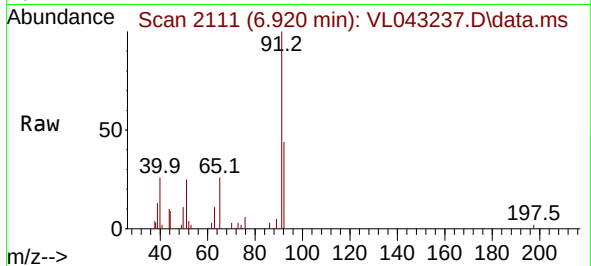




#53
Toluene
Concen: 0.152 ppbv
RT: 6.920 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

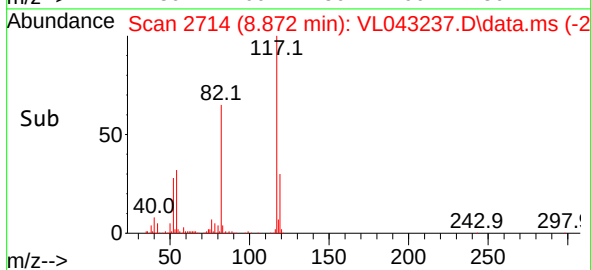
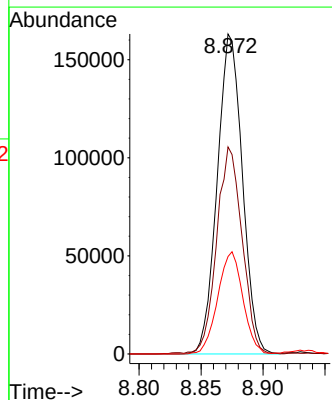
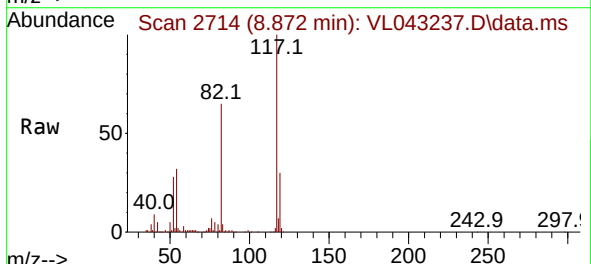
Instrument :
MSVOA_1
ClientSampleId :
9B-SG-1

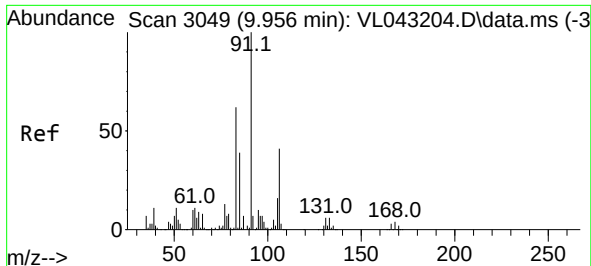
Tgt Ion: 91 Resp: 5000
Ion Ratio Lower Upper
91 100
92 99.9 47.4 71.0#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.000 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 117 Resp: 231142
Ion Ratio Lower Upper
117 100
82 65.5 56.1 84.1
119 32.0 25.0 37.6

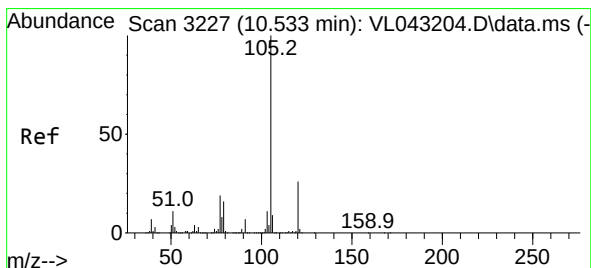
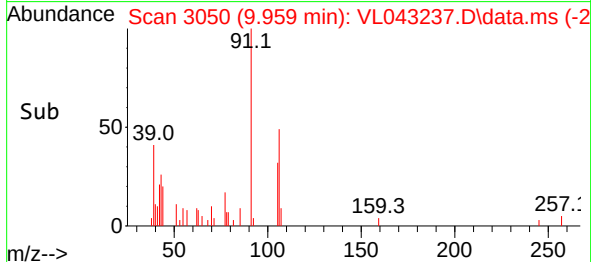
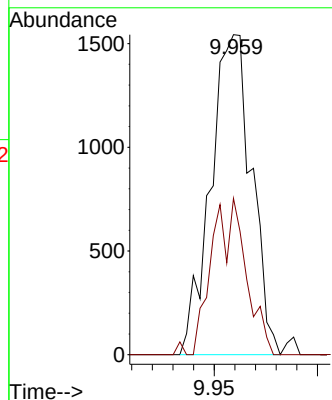
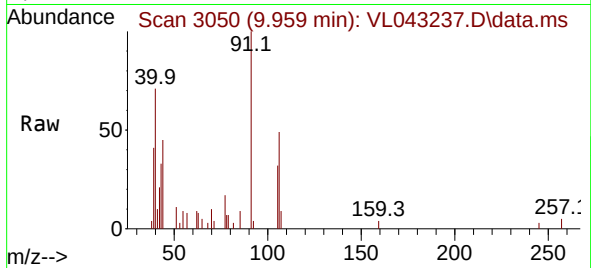




#60
o-Xylene
Concen: 0.060 ppbv
RT: 9.959 min Scan# 3049
Delta R.T. 0.003 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

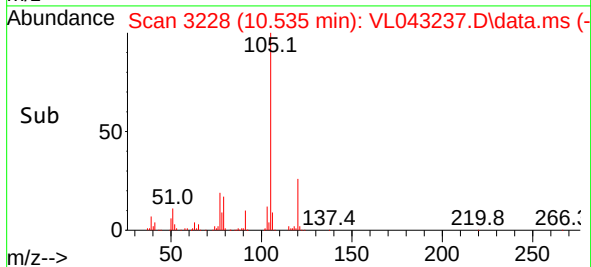
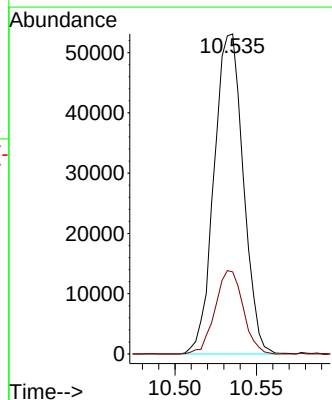
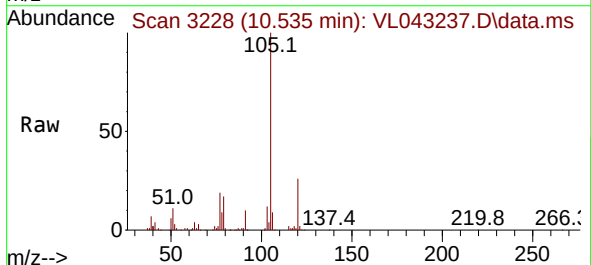
Instrument :
MSVOA_1
ClientSampleId :
9B-SG-1

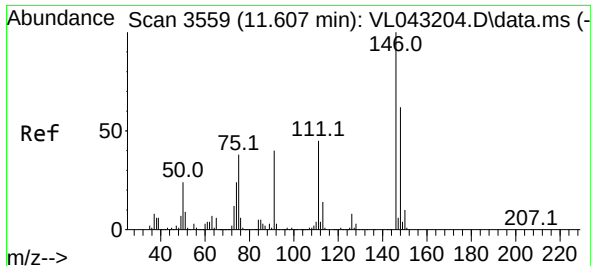
Tgt Ion: 91 Resp: 2126
Ion Ratio Lower Upper
91 100
106 41.3 20.9 62.8



#62
Isopropylbenzene
Concen: 1.039 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. 0.003 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 105 Resp: 66231
Ion Ratio Lower Upper
105 100
120 25.0 19.8 29.8

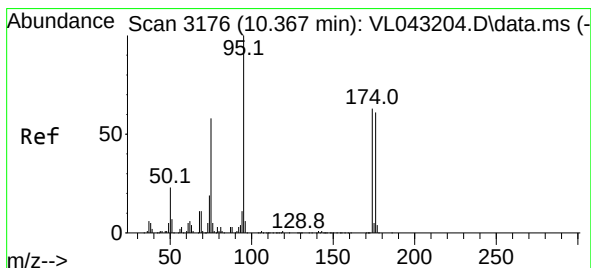
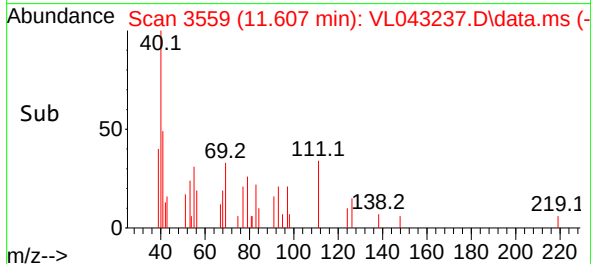
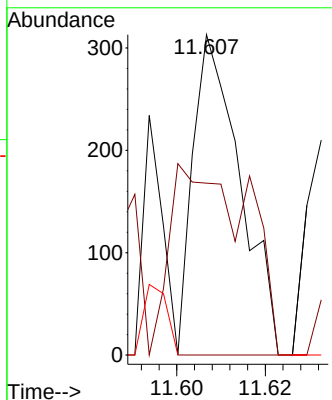
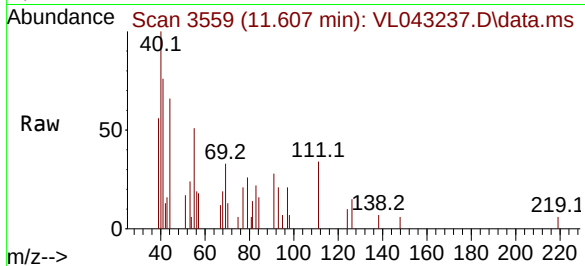




#66
Benzyl Chloride
Concen: 0.040 ppbv
RT: 11.607 min Scan# 311
Delta R.T. -0.000 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

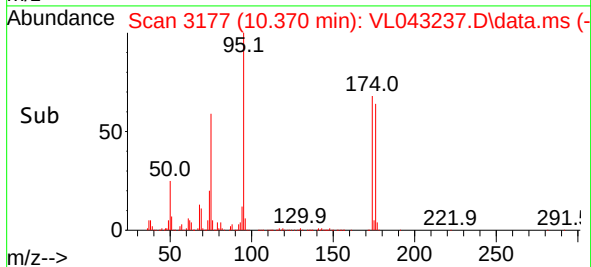
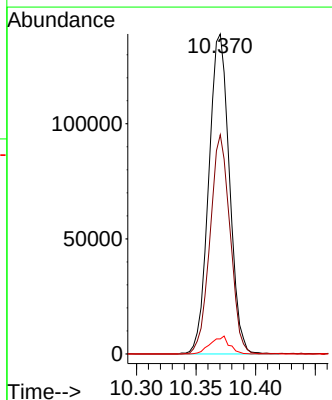
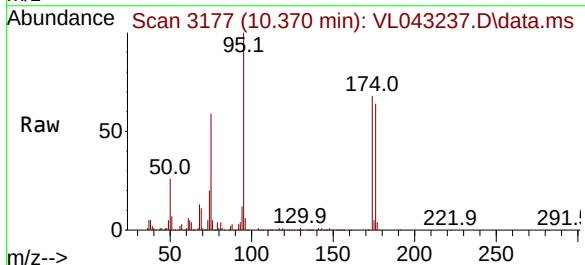
Instrument :
MSVOA_1
ClientSampleId :
9B-SG-1

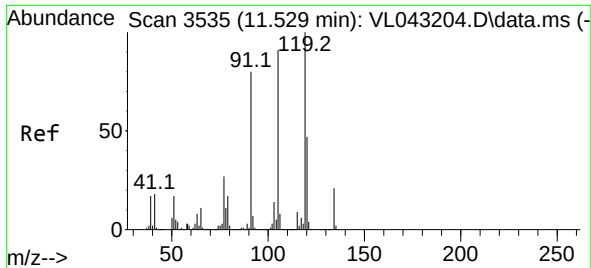
Tgt Ion: 91 Resp: 232
Ion Ratio Lower Upper
91 100
126 150.9 14.4 21.6#
128 0.0 4.6 6.8#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.874 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion: 95 Resp: 167299
Ion Ratio Lower Upper
95 100
174 66.4 50.2 75.2
175 5.1 4.1 6.1

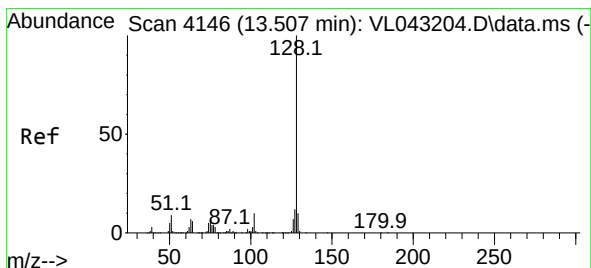
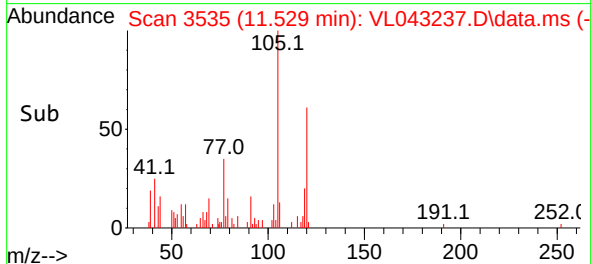
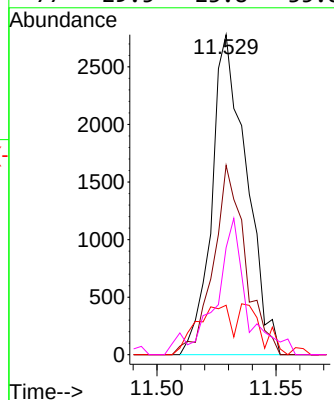
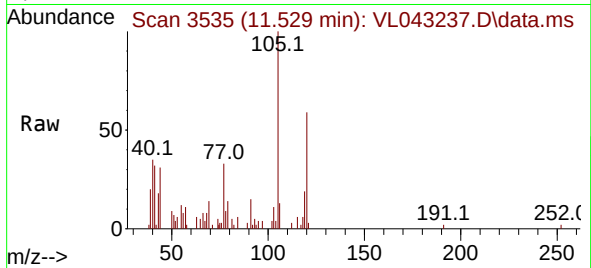




#74
1,2,4-Trimethylbenzene
Concen: 0.071 ppbv
RT: 11.529 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Instrument :
MSVOA_1
ClientSampleId :
9B-SG-1

Tgt Ion:	105	Resp:	2816
Ion	Ratio	Lower	Upper
105	100		
120	62.3	41.7	62.5
91	13.7	70.0	105.0#
77	29.5	23.8	35.8



#79
Naphthalene
Concen: 0.034 ppbv
RT: 13.516 min Scan# 4149
Delta R.T. 0.009 min
Lab File: VL043237.D
Acq: 19 Nov 2025 13:50

Tgt Ion:	128	Resp:	1186
Ion	Ratio	Lower	Upper
128	100		
127	17.9	9.9	14.9#
129	14.7	8.4	12.6#

