

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082125\
 Data File : VL042877.D
 Acq On : 22 Aug 2025 08:35
 Operator : SY/MD
 Sample : Q2898-02DUP
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Quant Time: Aug 22 09:07:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	121878	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	348957	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	298585	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	238583	10.654	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.500%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	8495	0.476	ppbv	91
3) Chlorodifluoromethane	1.466	51	1698109	86.007	ppbv #	59
4) Chloromethane	1.531	50	4195	0.582	ppbv #	84
5) Vinyl Chloride	1.525	62	277	0.039	ppbv #	1
7) Chloroethane	1.528	64	2436	0.879	ppbv	99
8) Dichlorotetrafluoroethane	1.557	85	343	0.023	ppbv #	78
9) Propene	1.560	41	440347	51.643	ppbv	98
10) Heptane	4.985	43	4388	0.192	ppbv #	16
11) Trichlorofluoromethane	1.881	101	4169	0.237	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	1158	0.082	ppbv #	78
13) Ethanol	1.725	45	1091615	1400.150	ppbv	94
15) Acetone	1.835	43	298214	18.497	ppbv	93
16) 1,3-Butadiene	1.622	39	317555	43.448	ppbv #	11
17) tert-Butyl alcohol	2.046	59	13322	0.697	ppbv #	71
19) Isopropyl Alcohol	1.887	45	161755	16.798	ppbv	93
20) Methylene Chloride	2.062	84	24233	3.588	ppbv	88
21) Allyl Chloride	1.965	41	35616	3.127	ppbv #	25
23) Vinyl Acetate	2.476	43	14769	0.666	ppbv #	33
25) Ethyl Acetate	2.836	43	93625	2.399	ppbv #	97
26) Hexane	2.829	57	46241	2.567	ppbv	94
27) Carbon Disulfide	2.153	76	1664	0.095	ppbv #	1
29) Chloroform	2.849	83	8194	0.319	ppbv	89
30) Cyclohexane	3.852	84	2198	0.139	ppbv #	1
31) cis-1,2-Dichloroethene	2.839	61	8343	0.464	ppbv #	22
34) 2-Butanone	2.557	43	80768	3.428	ppbv	99
35) Carbon Tetrachloride	3.765	117	927	0.039	ppbv #	76
36) Benzene	3.661	78	5362	0.160	ppbv	95
37) 1,2-Dichloroethane	3.221	62	663	0.038	ppbv #	79
38) Trichloroethene	4.554	130	334	0.022	ppbv	88
39) 1,2-Dichloropropane	3.959	63	88457	7.248	ppbv #	28
40) 1,4-Dioxane	4.609	88	126	0.022	ppbv #	1
41) Tetrahydrofuran	3.059	42	6801	0.518	ppbv #	77
43) Methyl Methacrylate	4.884	69	429	0.031	ppbv #	5
44) 2,2,4-Trimethylpentane	4.648	57	16212	0.286	ppbv #	66
51) 2-Hexanone	7.428	43	845	0.034	ppbv #	27
52) Tetrachloroethene	8.228	164	502	0.042	ppbv	85
53) Toluene	6.933	91	30447	0.766	ppbv #	55
58) Ethyl Benzene	9.354	91	11241	0.213	ppbv #	85
59) m/p-Xylene	9.535	91	20236	0.490	ppbv #	100
60) o-Xylene	9.966	91	17099	0.412	ppbv	95
61) Styrene	9.872	104	46756	2.402	ppbv	97
62) Isopropylbenzene	10.545	105	4874	0.080	ppbv	95
64) n-propylbenzene	10.992	120	9334	0.603	ppbv	86

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 Misc :
 ALS Vial : 3 Sample Multiplier: 1

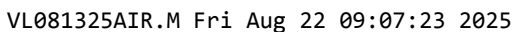
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

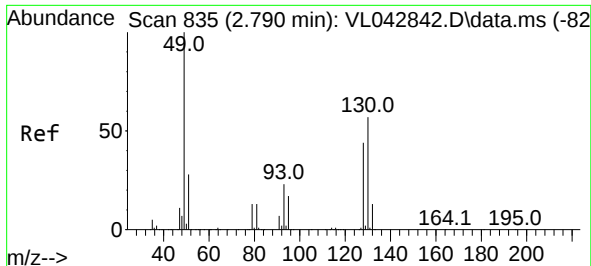
Quant Time: Aug 22 09:07:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
65) tert-Butylbenzene	11.536	119	20971	0.392	ppbv	#	54
66) Benzyl Chloride	11.536	91	24923	3.668	ppbv	#	65
67) sec-Butylbenzene	11.772	105	2834	0.038	ppbv	#	67
69) p-Isopropyltoluene	11.927	119	32491	0.504	ppbv		96
70) n-Butylbenzene	12.283	91	2217	0.035	ppbv	#	78
71) 2-Chlorotoluene	10.856	91	10656	0.226	ppbv	#	46
72) 4-Ethyltoluene	11.128	105	67795	1.346	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.206	105	51748	1.208	ppbv		97
74) 1,2,4-Trimethylbenzene	11.536	105	201120	4.278	ppbv	#	60
75) 1,3-Dichlorobenzene	11.675	146	2026	0.076	ppbv		94
76) 1,4-Dichlorobenzene	11.675	146	2026	0.075	ppbv		94
77) 1,2-Dichlorobenzene	11.675	146	2026	0.077	ppbv		93
79) Naphthalene	13.520	128	5978	0.140	ppbv		98
80) Naphthalene,2-methyl-	14.458	142	592	0.037	ppbv	#	33

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

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QLast Update : Thu Aug 14 02:12:54 2025
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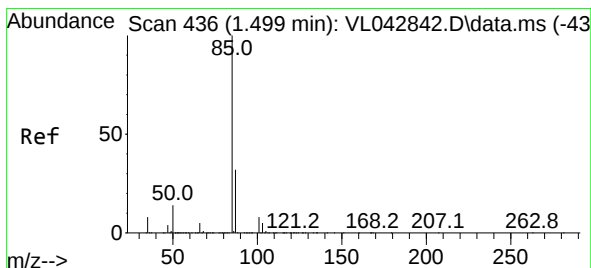
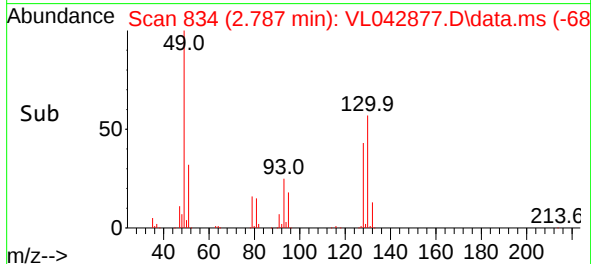
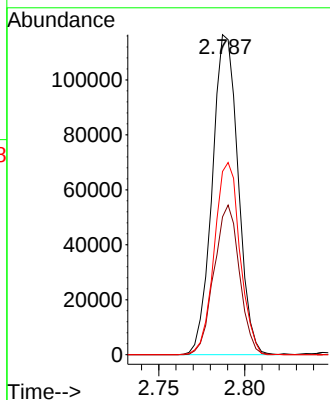
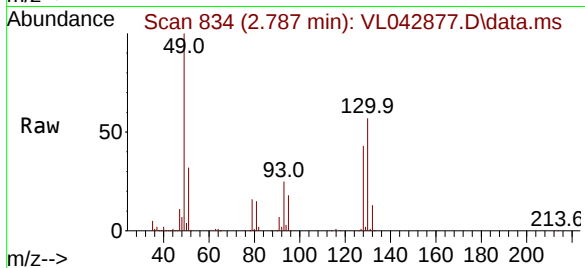




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

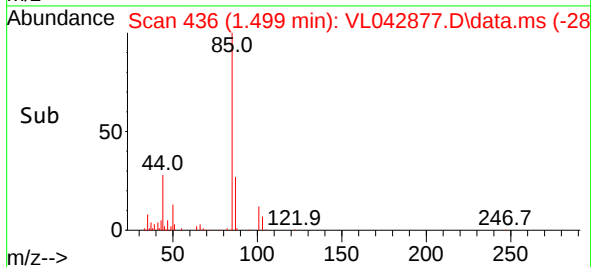
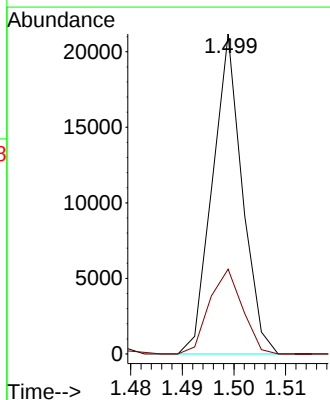
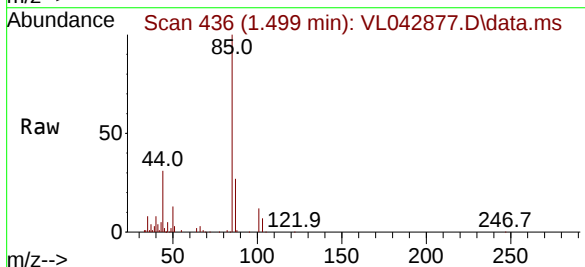
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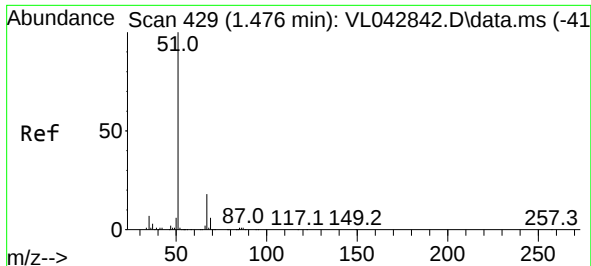
Tgt Ion: 49 Resp: 121878
Ion Ratio Lower Upper
49 100
128 45.8 23.7 71.1
130 59.4 30.6 91.6



#2
Dichlorodifluoromethane
Concen: 0.476 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

Tgt Ion: 85 Resp: 8495
Ion Ratio Lower Upper
85 100
87 26.5 25.3 37.9

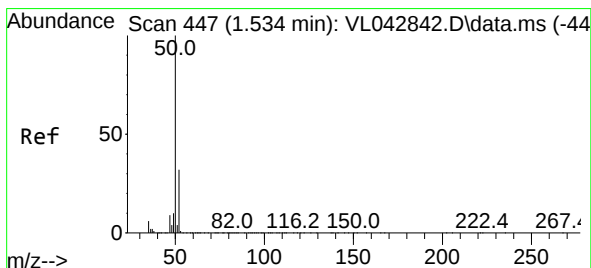
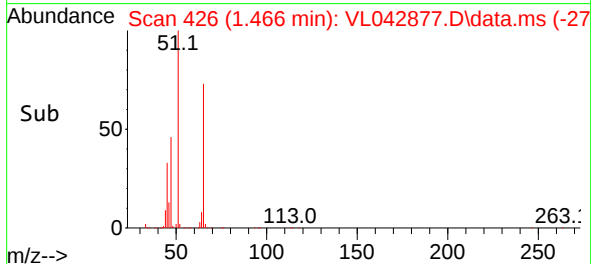
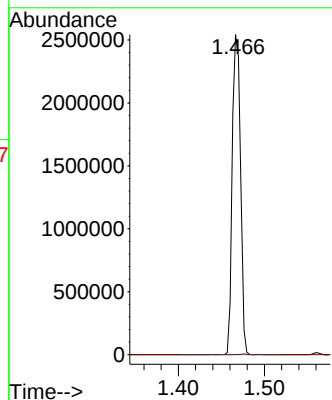
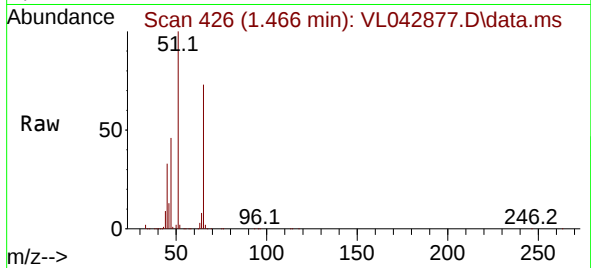




#3
Chlorodifluoromethane
Concen: 86.007 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

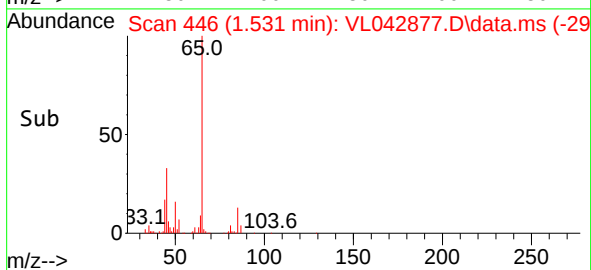
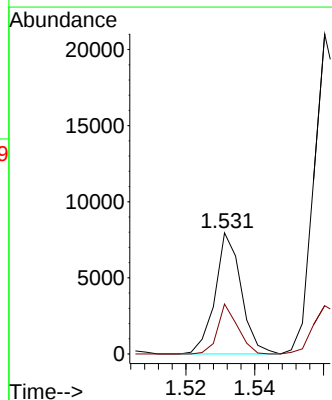
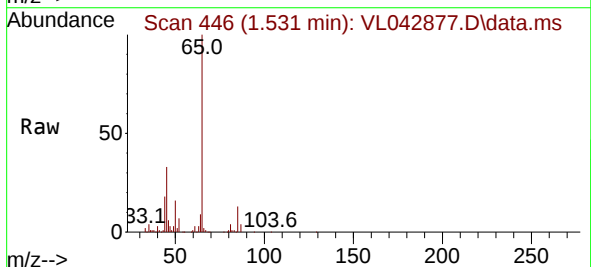
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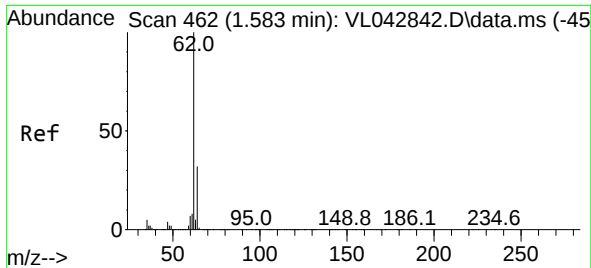
Tgt Ion: 51 Resp: 1698109
Ion Ratio Lower Upper
51 100
67 0.2 14.9 22.3#



#4
Chloromethane
Concen: 0.582 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.003 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

Tgt Ion: 50 Resp: 4195
Ion Ratio Lower Upper
50 100
52 41.2 25.9 38.9#

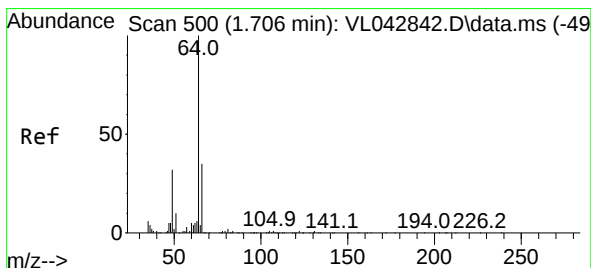
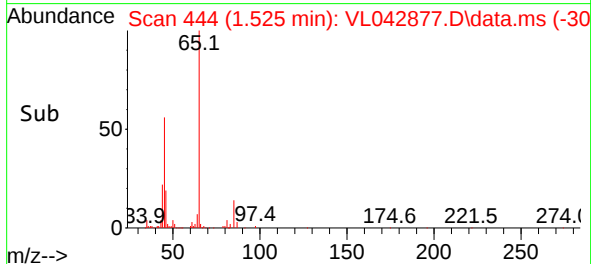
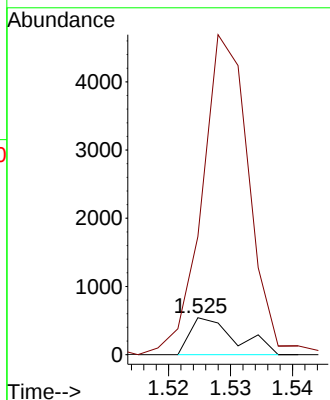
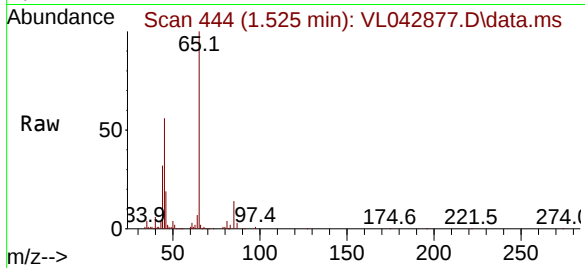




#5
 Vinyl Chloride
 Concen: 0.039 ppbv
 RT: 1.525 min Scan# 444
 Delta R.T. -0.058 min
 Lab File: VL042877.D
 Acq: 22 Aug 2025 08:35

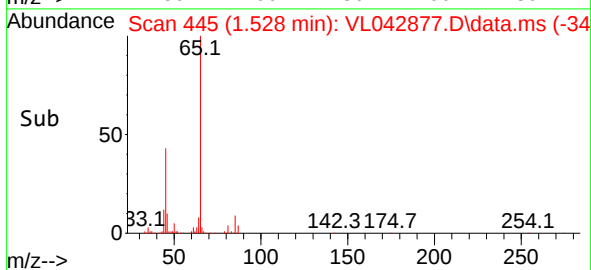
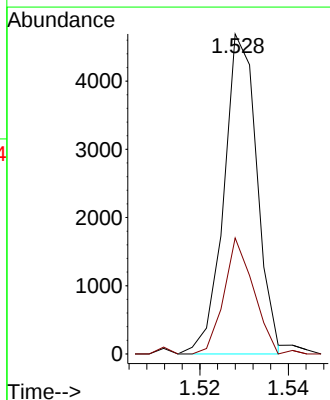
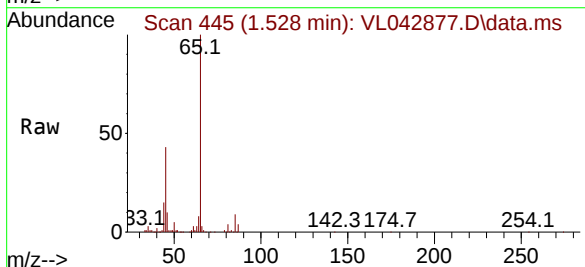
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

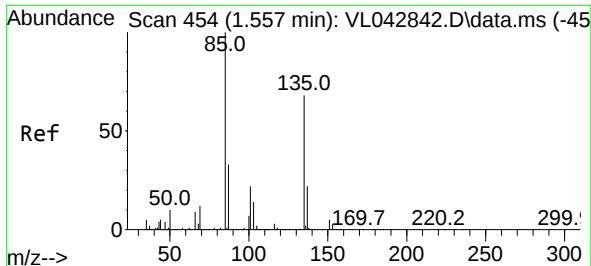
Tgt Ion: 62 Resp: 277
 Ion Ratio Lower Upper
 62 100
 64 296.5 25.4 38.2#



#7
 Chloroethane
 Concen: 0.879 ppbv
 RT: 1.528 min Scan# 445
 Delta R.T. -0.178 min
 Lab File: VL042877.D
 Acq: 22 Aug 2025 08:35

Tgt Ion: 64 Resp: 2436
 Ion Ratio Lower Upper
 64 100
 66 36.2 28.6 42.8

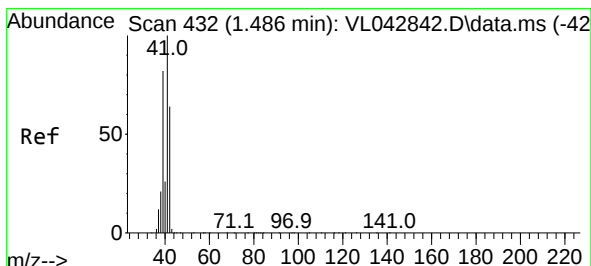
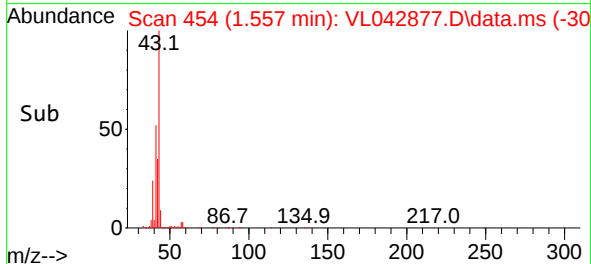
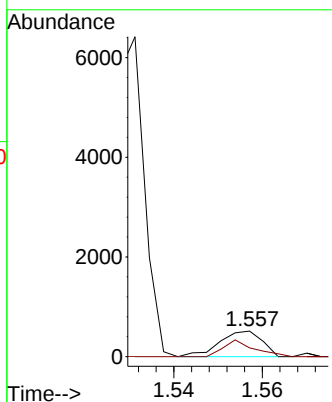
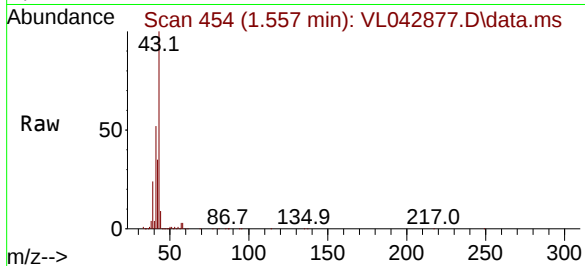




#8
 Dichlorotetrafluoroethane
 Concen: 0.023 ppbv
 RT: 1.557 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042877.D
 Acq: 22 Aug 2025 08:35

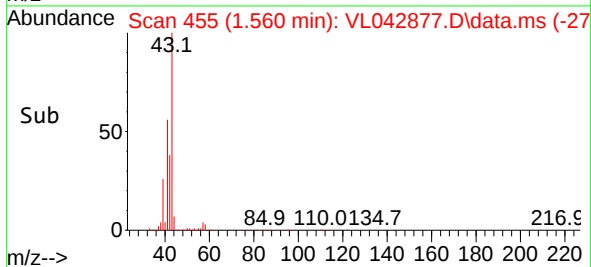
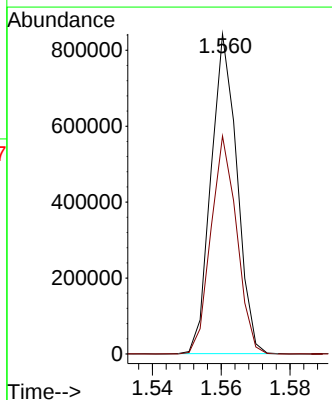
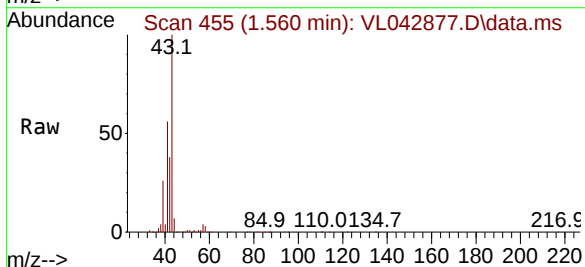
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 ClientSampleId :
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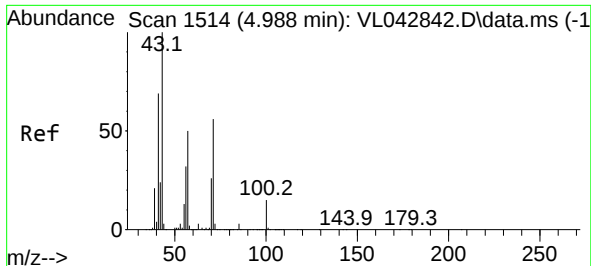
Tgt Ion: 85 Resp: 343
 Ion Ratio Lower Upper
 85 100
 135 46.9 51.2 76.8#



#9
 Propene
 Concen: 51.643 ppbv
 RT: 1.560 min Scan# 455
 Delta R.T. 0.074 min
 Lab File: VL042877.D
 Acq: 22 Aug 2025 08:35

Tgt Ion: 41 Resp: 440347
 Ion Ratio Lower Upper
 41 100
 42 68.0 53.0 79.4

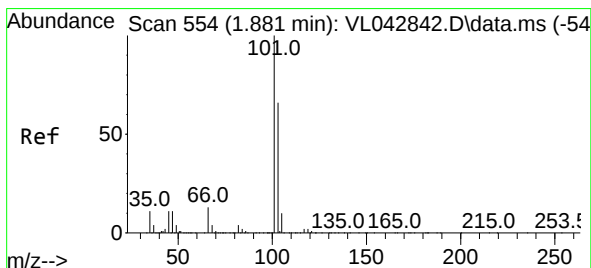
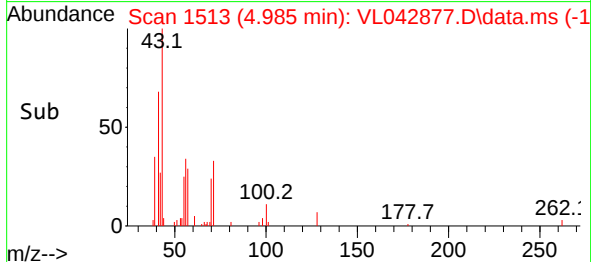
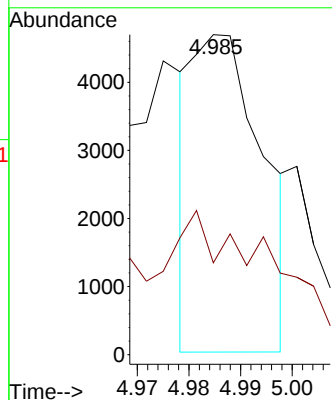
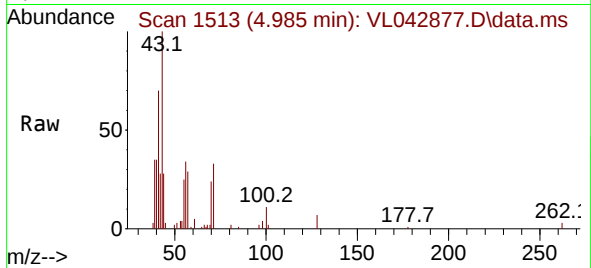




#10
 Heptane
 Concen: 0.192 ppbv
 RT: 4.985 min Scan# 11
 Delta R.T. -0.003 min
 Lab File: VL042877.D
 Acq: 22 Aug 2025 08:35

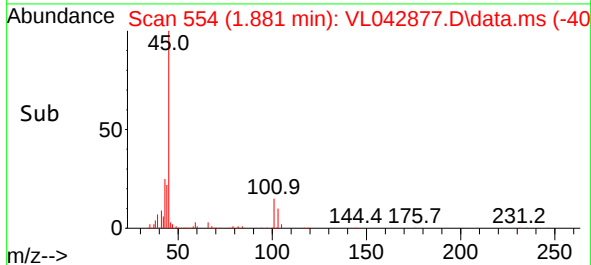
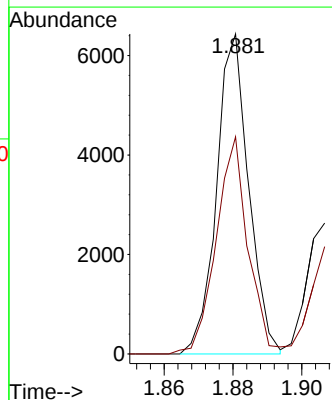
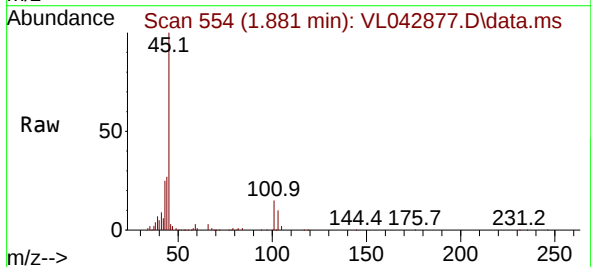
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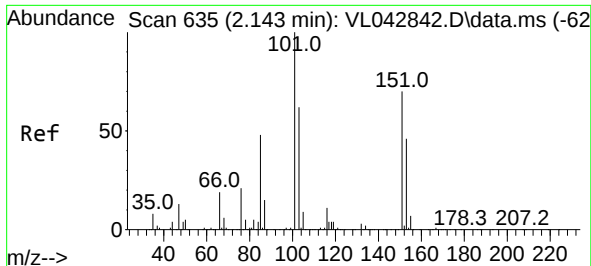
Tgt Ion: 43 Resp: 4388
 Ion Ratio Lower Upper
 43 100
 57 110.5 41.4 62.0#



#11
 Trichlorofluoromethane
 Concen: 0.237 ppbv
 RT: 1.881 min Scan# 554
 Delta R.T. 0.000 min
 Lab File: VL042877.D
 Acq: 22 Aug 2025 08:35

Tgt Ion: 101 Resp: 4169
 Ion Ratio Lower Upper
 101 100
 103 66.7 52.5 78.7

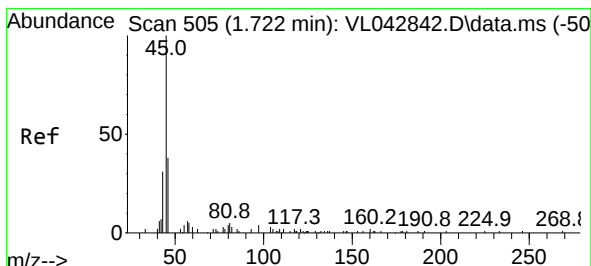
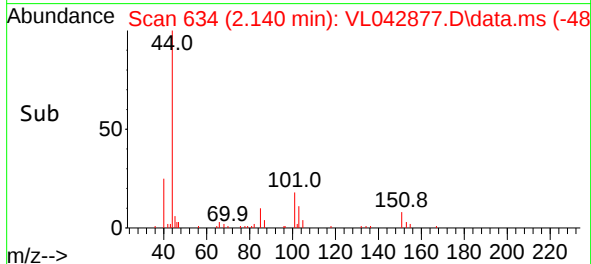
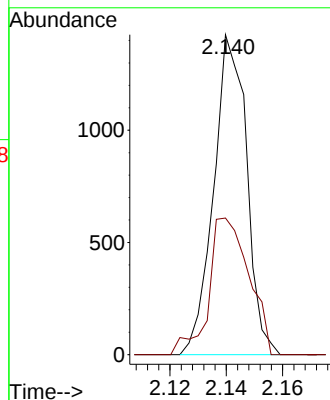
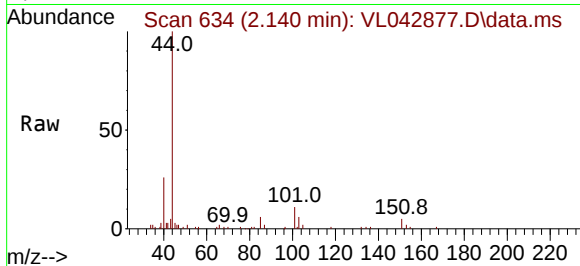




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.082 ppbv
 RT: 2.140 min Scan# 61
 Delta R.T. -0.003 min
 Lab File: VL042877.D
 Acq: 22 Aug 2025 08:35

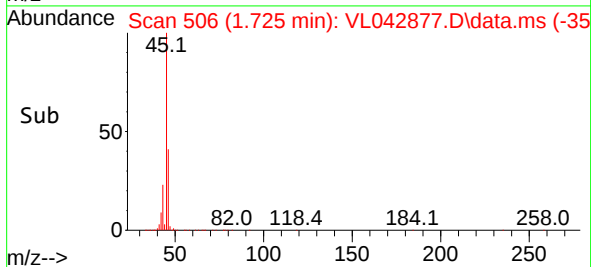
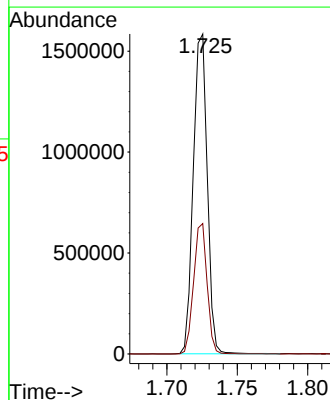
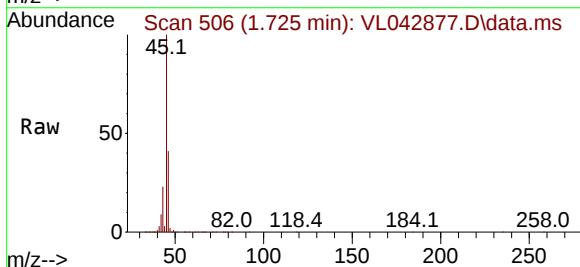
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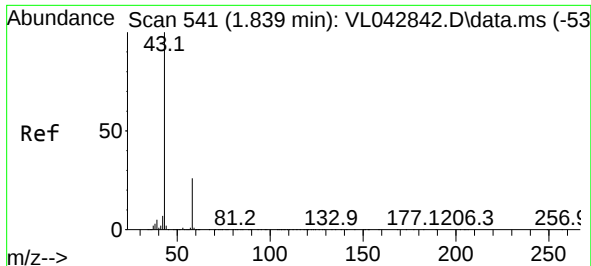
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 Ion Ratio Lower Upper
 101 100
 151 52.1 56.4 84.6#



#13
 Ethanol
 Concen: 1400.150 ppbv
 RT: 1.725 min Scan# 506
 Delta R.T. 0.003 min
 Lab File: VL042877.D
 Acq: 22 Aug 2025 08:35

Tgt Ion: 45 Resp: 1091615
 Ion Ratio Lower Upper
 45 100
 46 39.6 17.5 69.9

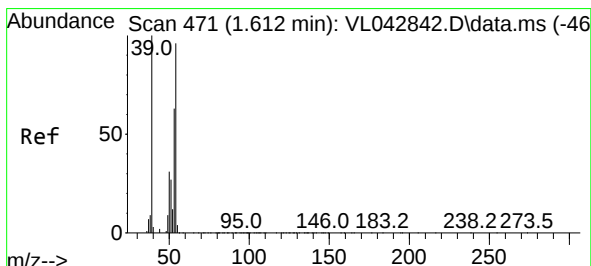
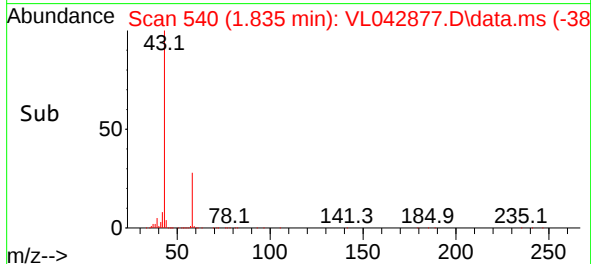
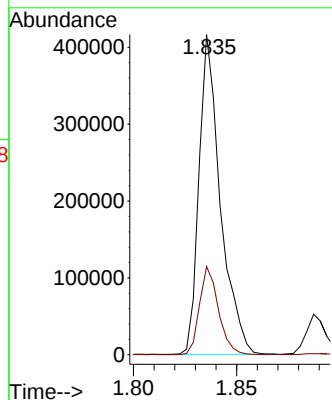
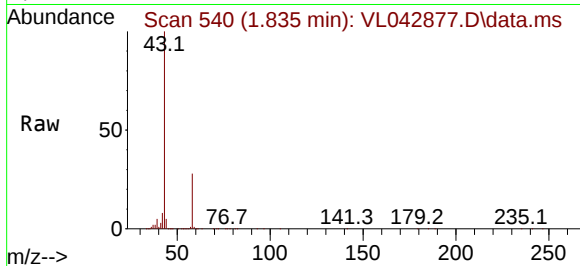




#15
Acetone
Concen: 18.497 ppbv
RT: 1.835 min Scan# 541
Delta R.T. -0.003 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

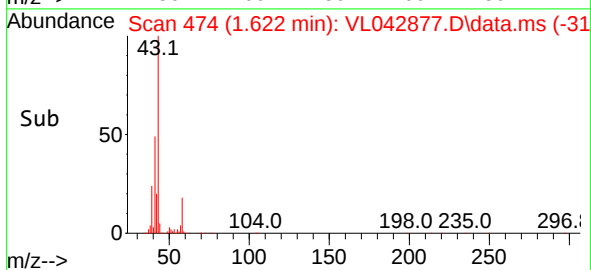
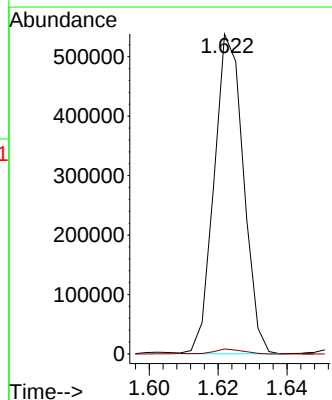
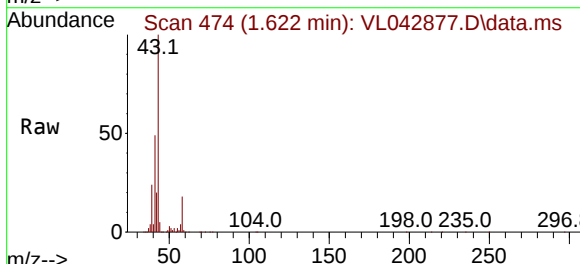
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

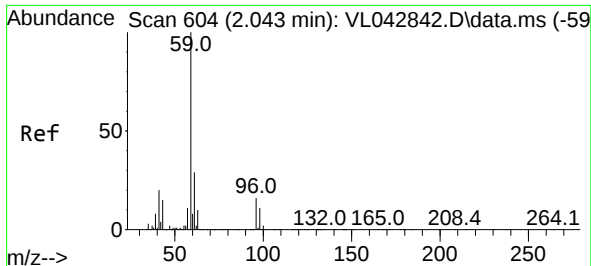
Tgt Ion: 43 Resp: 298214
Ion Ratio Lower Upper
43 100
58 24.6 22.4 33.6



#16
1,3-Butadiene
Concen: 43.448 ppbv
RT: 1.622 min Scan# 474
Delta R.T. 0.010 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

Tgt Ion: 39 Resp: 317555
Ion Ratio Lower Upper
39 100
54 1.6 63.6 95.4#





#17

tert-Butyl alcohol

Concen: 0.697 ppbv

RT: 2.046 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL042877.D

Acq: 22 Aug 2025 08:35

Instrument :

MSVOA_L

ClientSampleId :

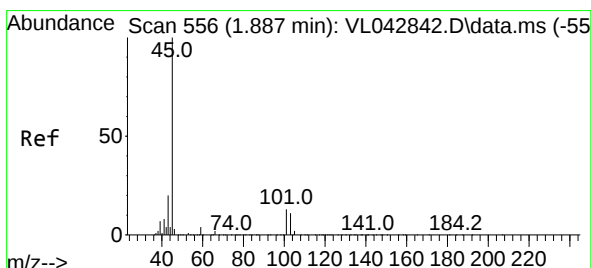
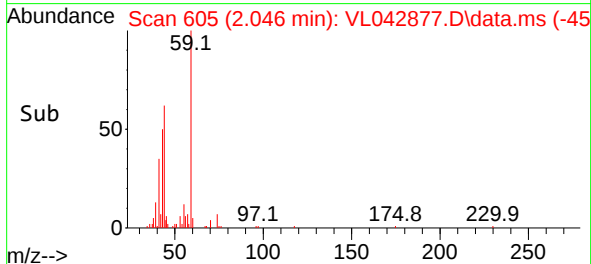
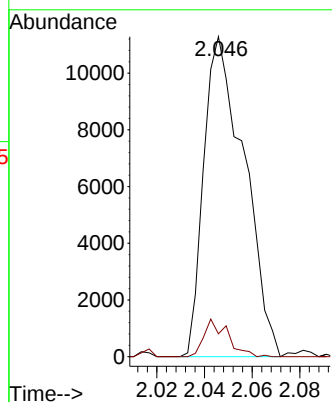
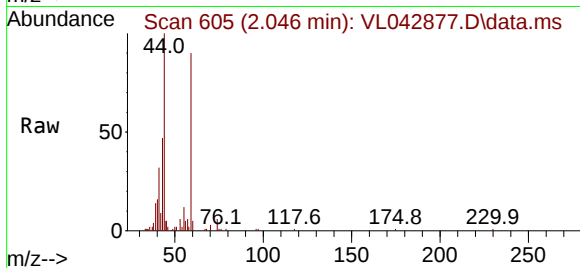
IA1DUP

Tgt Ion: 59 Resp: 13322

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#



#19

Isopropyl Alcohol

Concen: 16.798 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.000 min

Lab File: VL042877.D

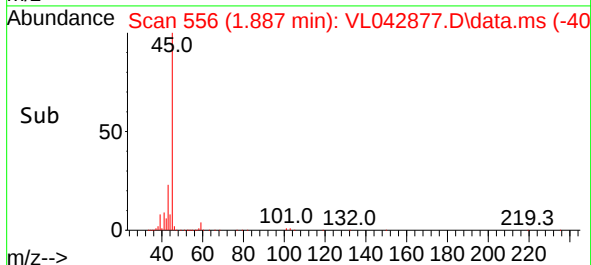
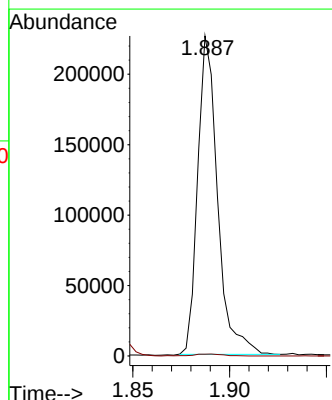
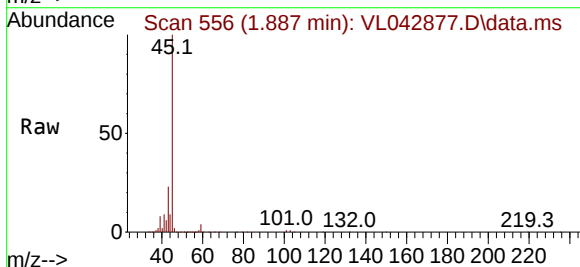
Acq: 22 Aug 2025 08:35

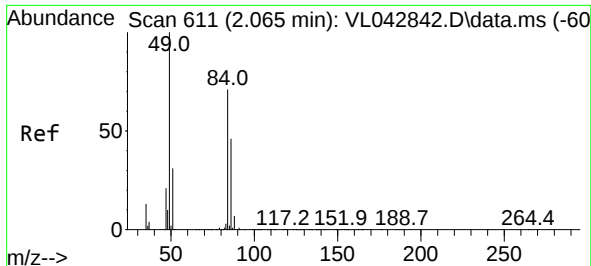
Tgt Ion: 45 Resp: 161755

Ion Ratio Lower Upper

45 100

58 45.3 32.7 49.1

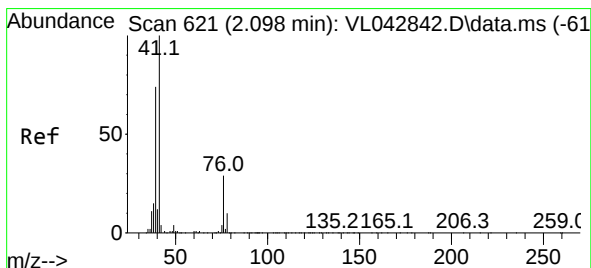
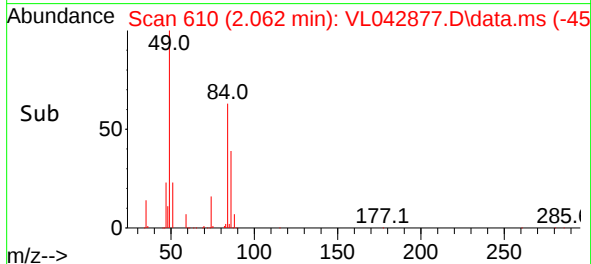
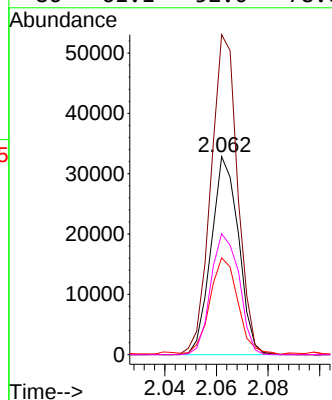
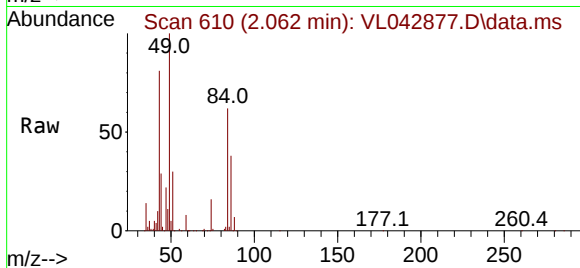




#20
Methylene Chloride
Concen: 3.588 ppbv
RT: 2.062 min Scan# 611
Delta R.T. -0.003 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

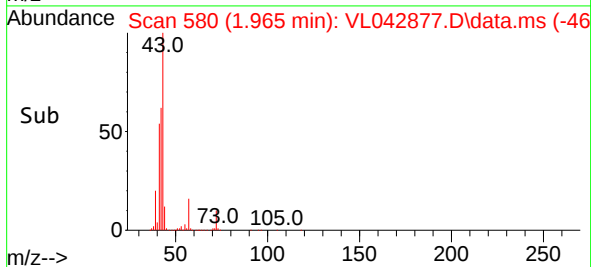
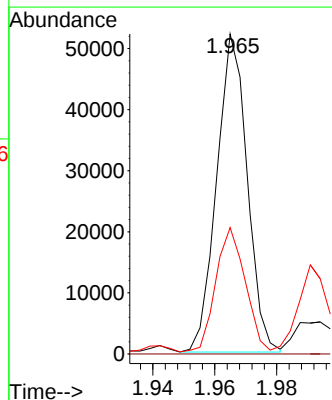
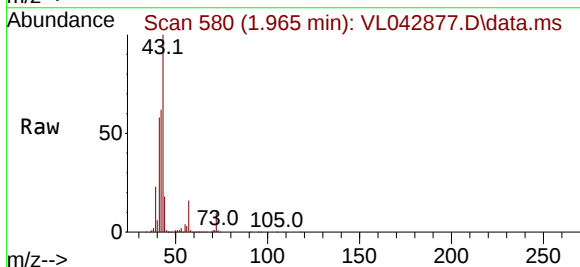
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

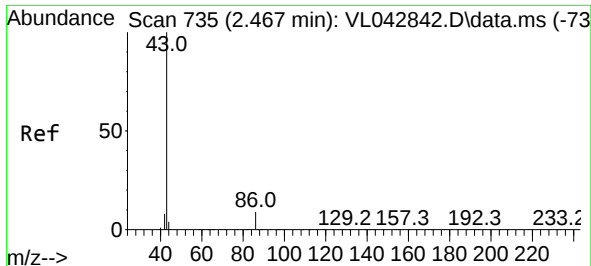
Tgt Ion:	84	Resp:	24233
Ion	Ratio	Lower	Upper
84	100		
49	161.3	112.3	168.5
51	48.8	36.0	54.0
86	61.1	52.0	78.0



#21
Allyl Chloride
Concen: 3.127 ppbv
RT: 1.965 min Scan# 580
Delta R.T. -0.133 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

Tgt Ion:	41	Resp:	35616
Ion	Ratio	Lower	Upper
41	100		
76	4.7	23.9	35.9#
39	0.0	57.8	86.6#

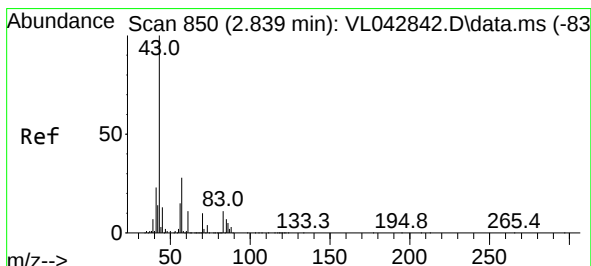
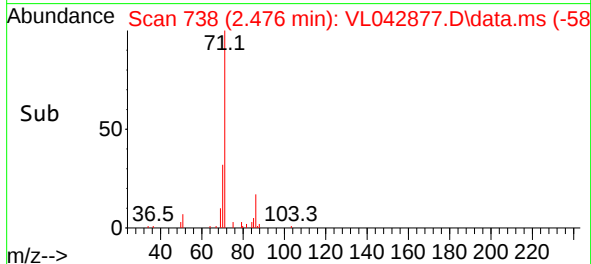
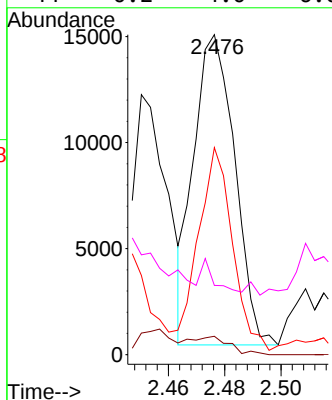
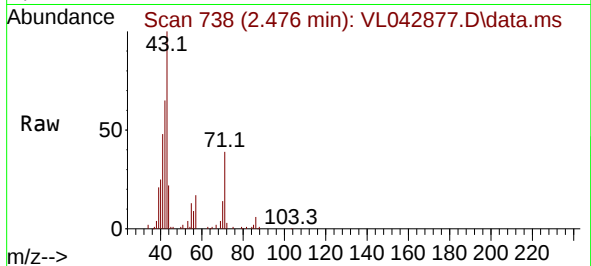




#23
 Vinyl Acetate
 Concen: 0.666 ppbv
 RT: 2.476 min Scan# 71
 Delta R.T. 0.010 min
 Lab File: VL042877.D
 Acq: 22 Aug 2025 08:35

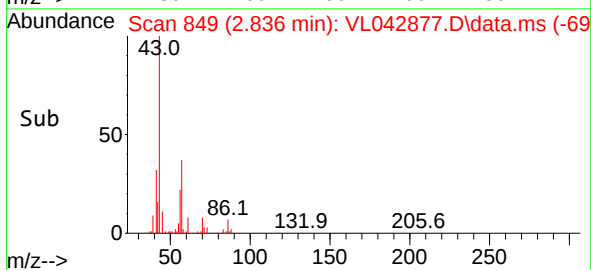
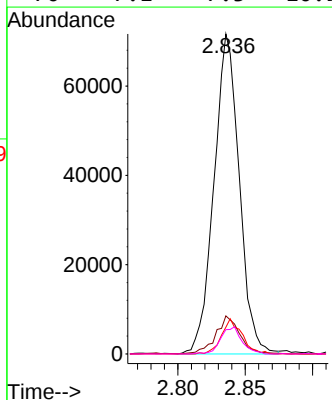
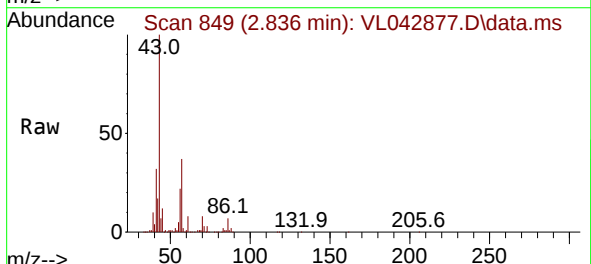
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

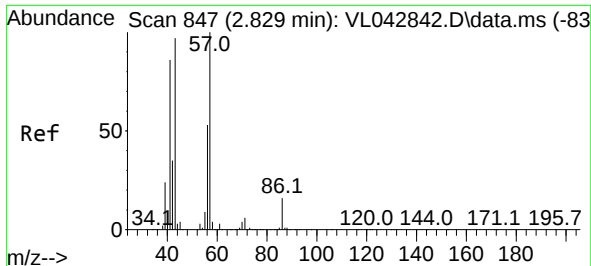
Tgt Ion: 43	Resp: 14769
Ion Ratio	Lower Upper
43	100
86	5.9 6.6 9.8#
42	63.9 7.0 10.6#
44	0.2 4.0 6.0#



#25
 Ethyl Acetate
 Concen: 2.399 ppbv
 RT: 2.836 min Scan# 849
 Delta R.T. -0.003 min
 Lab File: VL042877.D
 Acq: 22 Aug 2025 08:35

Tgt Ion: 43	Resp: 93625
Ion Ratio	Lower Upper
43	100
45	11.3 8.1 12.1
61	8.9 7.4 11.2
70	7.1 7.3 10.9#

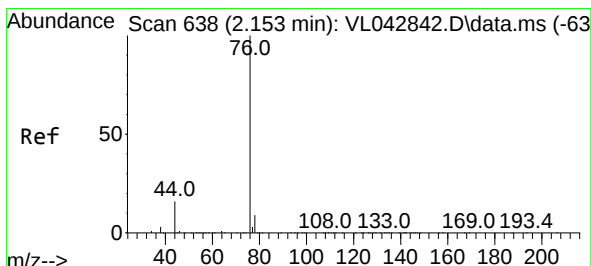
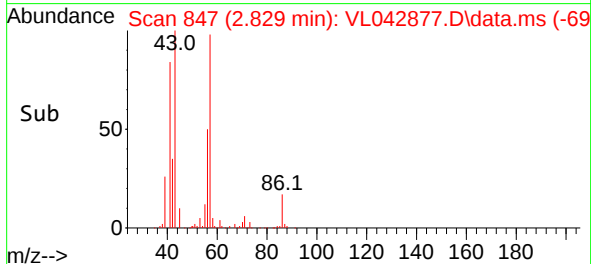
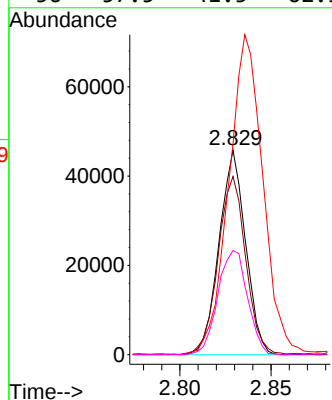
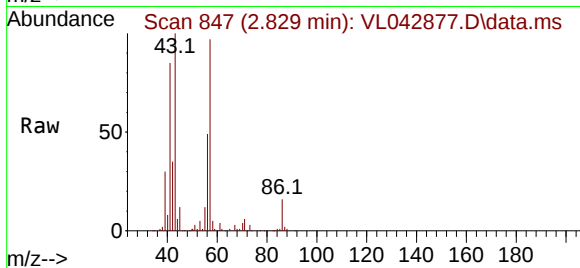




#26
Hexane
Concen: 2.567 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

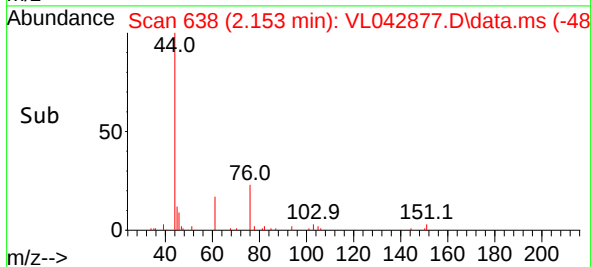
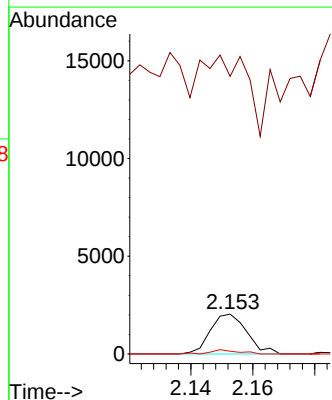
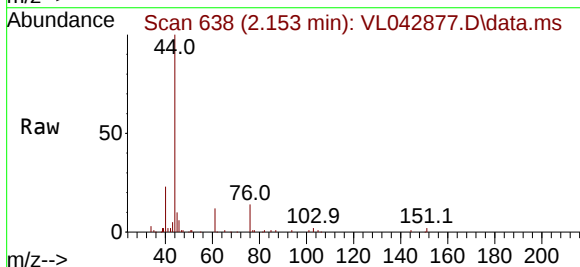
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

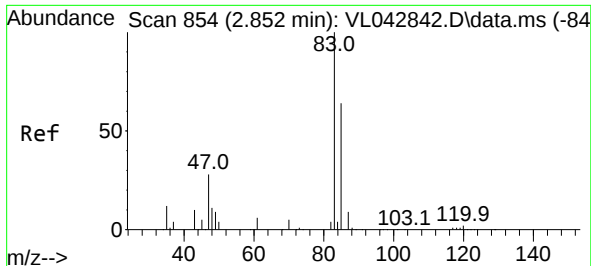
Tgt Ion: 57 Resp: 46241
Ion Ratio Lower Upper
57 100
41 91.4 68.6 103.0
43 202.9 168.5 252.7
56 57.5 41.5 62.3



#27
Carbon Disulfide
Concen: 0.095 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.000 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

Tgt Ion: 76 Resp: 1664
Ion Ratio Lower Upper
76 100
44 140.7 15.9 23.9#
78 8.0 9.5 14.3#





#29

Chloroform

Concen: 0.319 ppbv

RT: 2.849 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL042877.D

Acq: 22 Aug 2025 08:35

Instrument :

MSVOA_L

ClientSampleId :

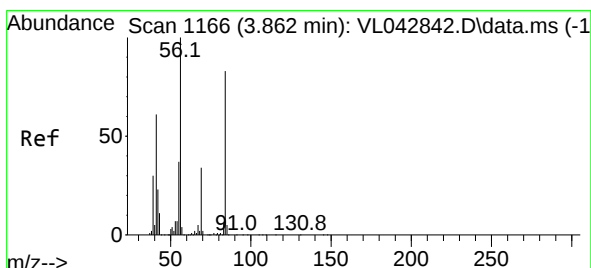
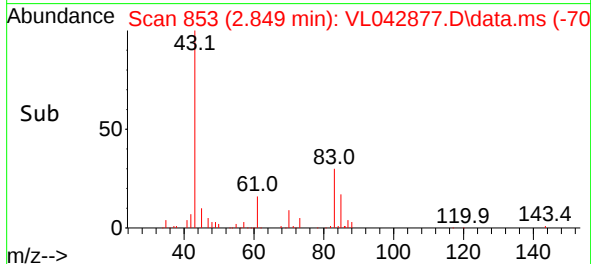
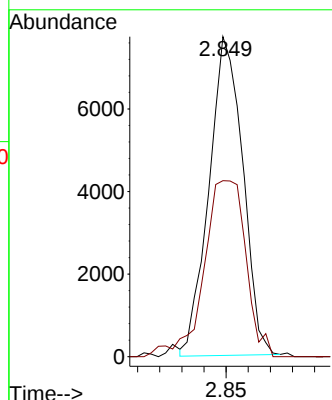
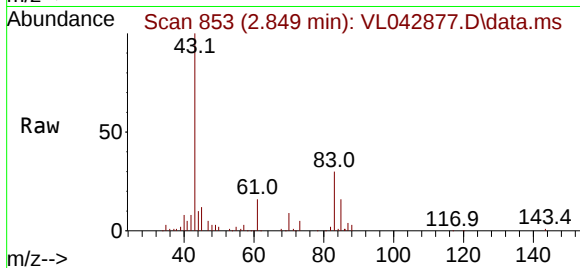
IA1DUP

Tgt Ion: 83 Resp: 8194

Ion Ratio Lower Upper

83 100

85 55.4 51.1 76.7



#30

Cyclohexane

Concen: 0.139 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.010 min

Lab File: VL042877.D

Acq: 22 Aug 2025 08:35

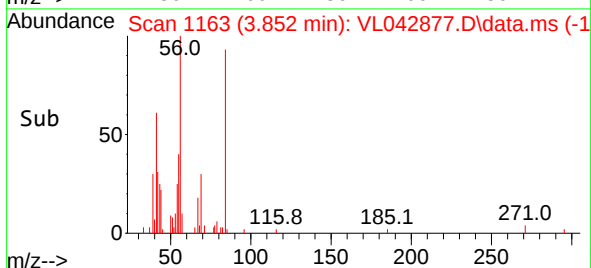
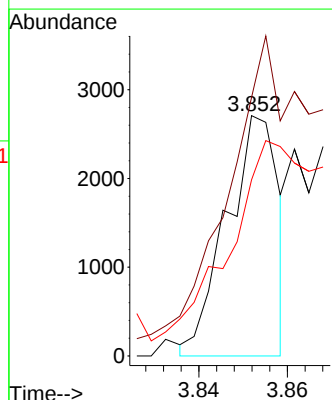
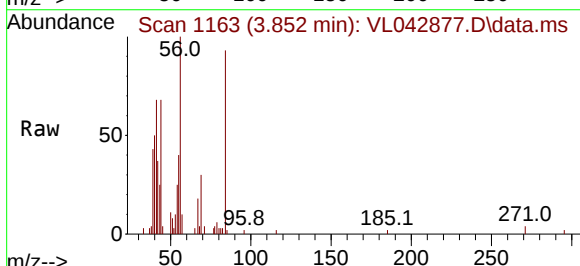
Tgt Ion: 84 Resp: 2198

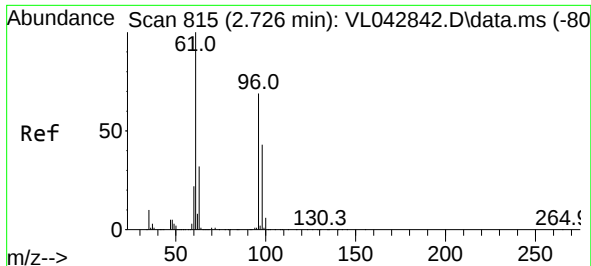
Ion Ratio Lower Upper

84 100

56 277.1 98.8 148.2#

41 223.6 61.3 91.9#

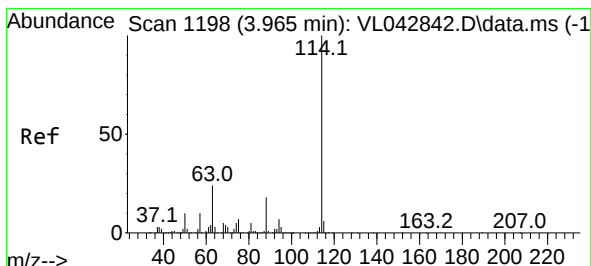
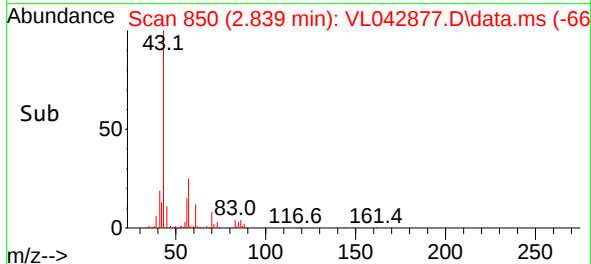
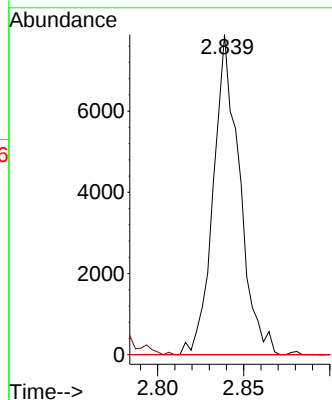
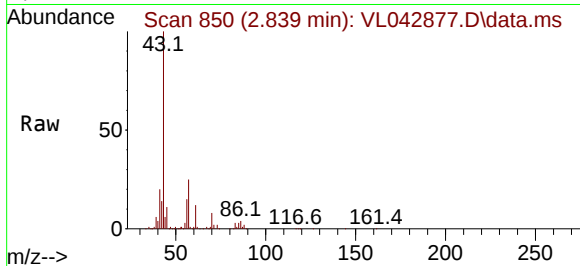




#31
 cis-1,2-Dichloroethene
 Concen: 0.464 ppbv
 RT: 2.839 min Scan# 815
 Delta R.T. 0.113 min
 Lab File: VL042877.D
 Acq: 22 Aug 2025 08:35

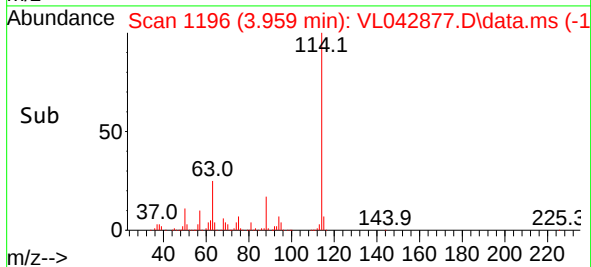
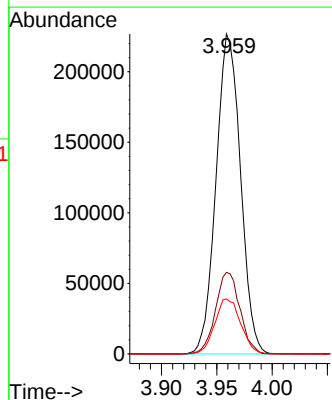
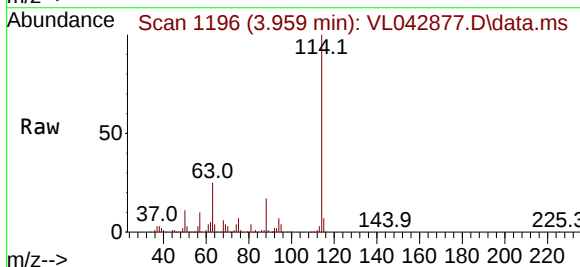
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

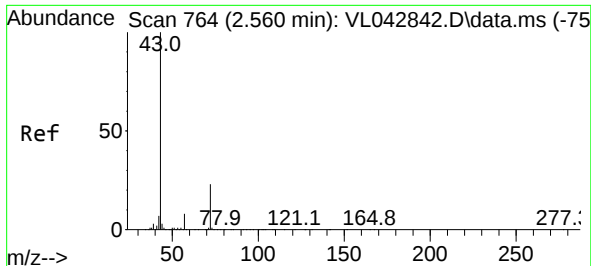
Tgt Ion: 61 Resp: 8343
 Ion Ratio Lower Upper
 61 100
 96 0.0 55.0 82.6#
 98 0.0 34.3 51.5#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.959 min Scan# 1196
 Delta R.T. -0.006 min
 Lab File: VL042877.D
 Acq: 22 Aug 2025 08:35

Tgt Ion: 114 Resp: 348957
 Ion Ratio Lower Upper
 114 100
 63 25.4 19.7 29.5
 88 18.2 14.4 21.6

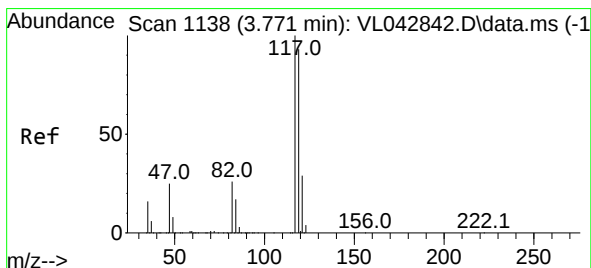
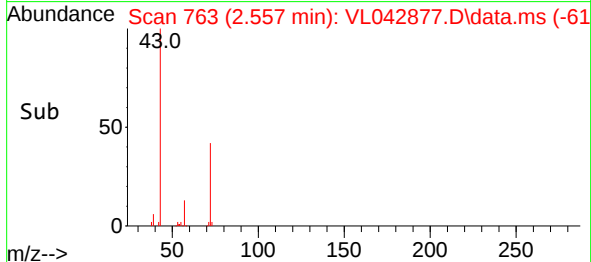
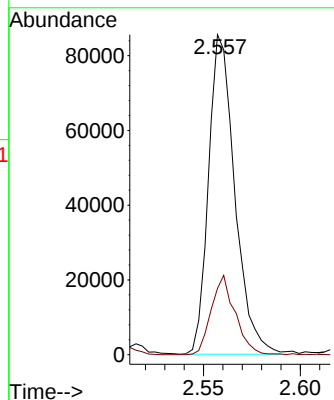
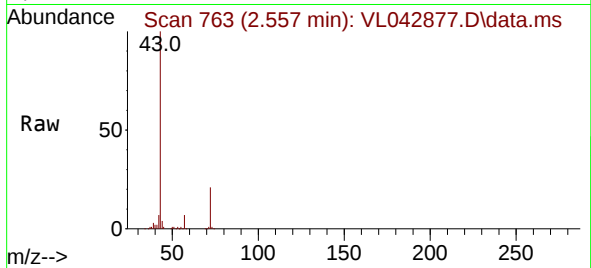




#34
2-Butanone
Concen: 3.428 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.003 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

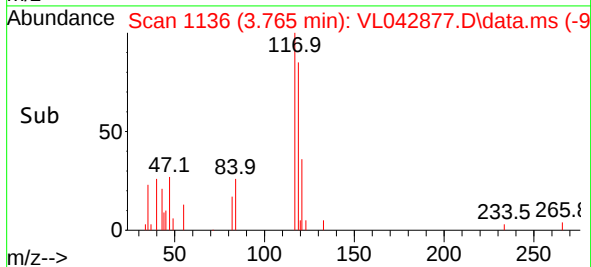
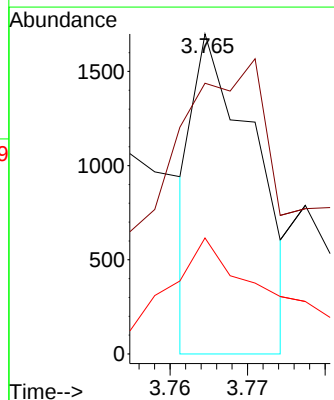
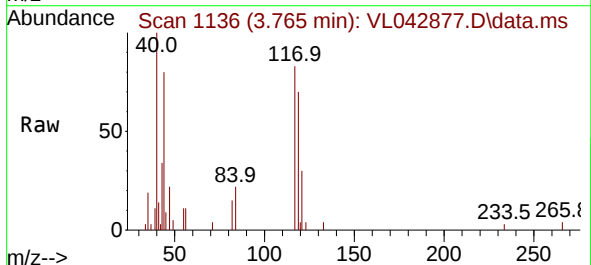
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

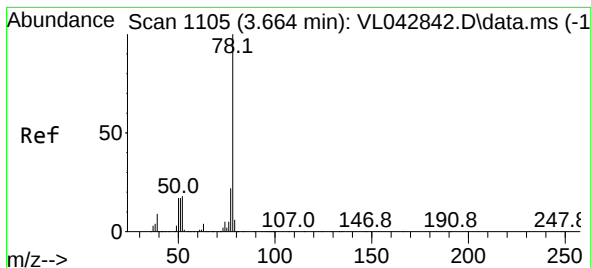
Tgt Ion: 43 Resp: 80768
Ion Ratio Lower Upper
43 100
72 22.7 18.6 28.0



#35
Carbon Tetrachloride
Concen: 0.039 ppbv
RT: 3.765 min Scan# 1136
Delta R.T. -0.006 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

Tgt Ion: 117 Resp: 927
Ion Ratio Lower Upper
117 100
119 64.1 74.7 112.1#
121 28.4 23.2 34.8





#36

Benzene

Concen: 0.160 ppbv

RT: 3.661 min Scan# 1104

Delta R.T. -0.003 min

Lab File: VL042877.D

Acq: 22 Aug 2025 08:35

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

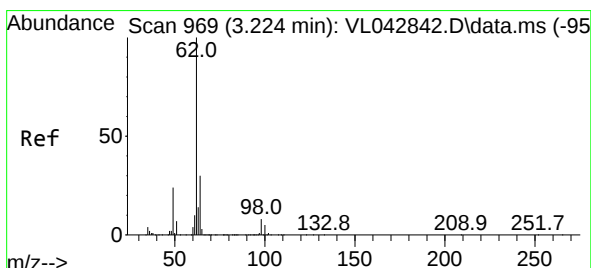
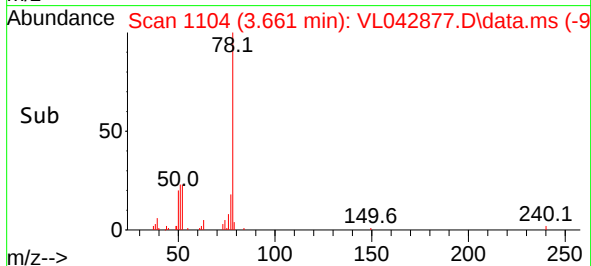
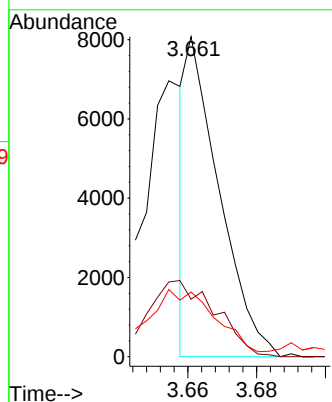
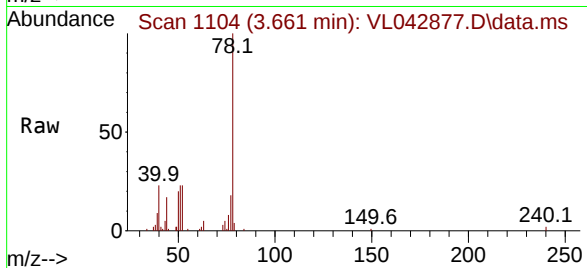
Tgt Ion: 78 Resp: 5362

Ion Ratio Lower Upper

78 100

77 18.0 17.7 26.5

50 17.8 13.9 20.9



#37

1,2-Dichloroethane

Concen: 0.038 ppbv

RT: 3.221 min Scan# 968

Delta R.T. -0.003 min

Lab File: VL042877.D

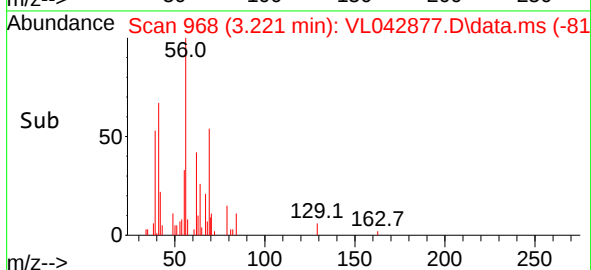
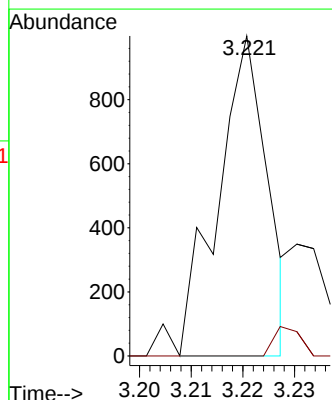
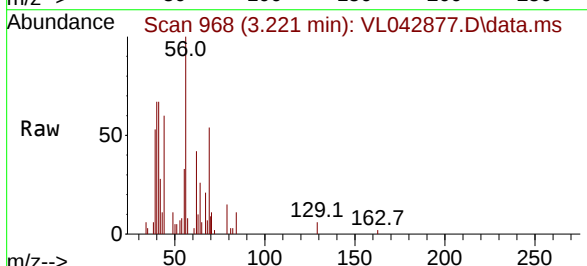
Acq: 22 Aug 2025 08:35

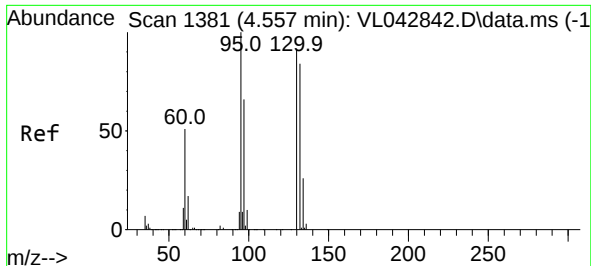
Tgt Ion: 62 Resp: 663

Ion Ratio Lower Upper

62 100

98 0.0 5.9 8.9#

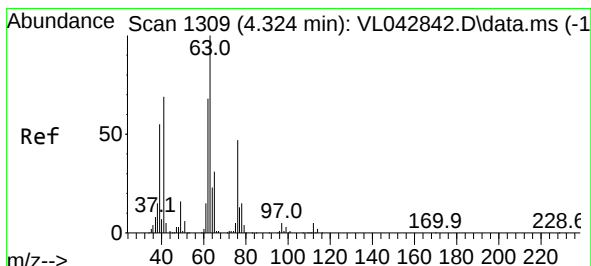
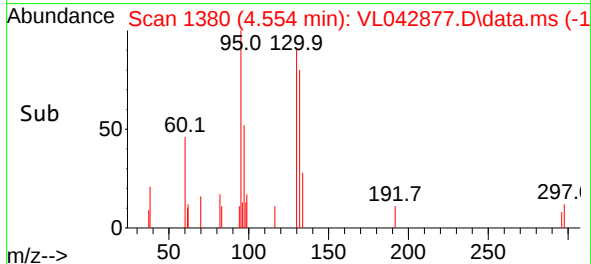
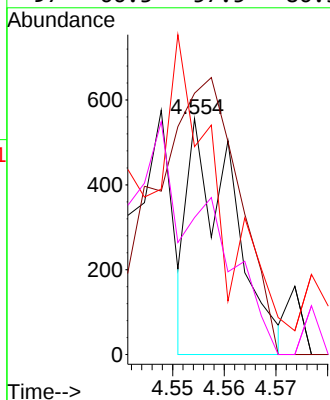
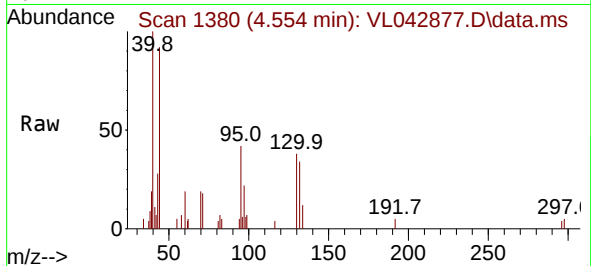




#38
 Trichloroethene
 Concen: 0.022 ppbv
 RT: 4.554 min Scan# 1196
 Delta R.T. -0.003 min
 Lab File: VL042877.D
 Acq: 22 Aug 2025 08:35

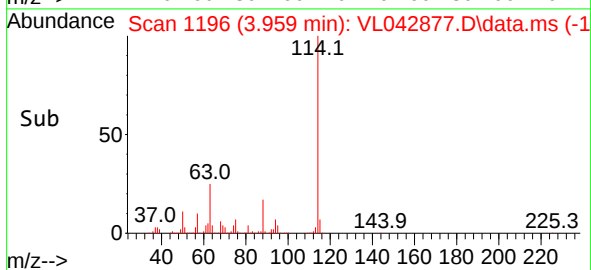
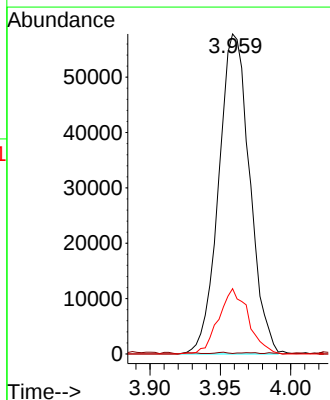
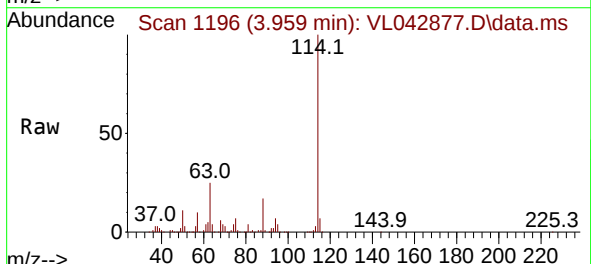
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

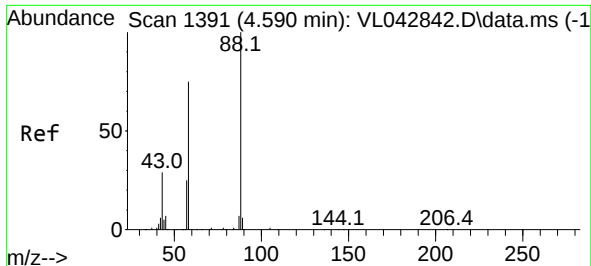
Tgt Ion:	130	Resp:	334
Ion	Ratio	Lower	Upper
130	100		
95	126.5	87.6	131.4
132	82.8	73.8	110.8
97	66.3	57.5	86.3



#39
 1,2-Dichloropropane
 Concen: 7.248 ppbv
 RT: 3.959 min Scan# 1196
 Delta R.T. -0.366 min
 Lab File: VL042877.D
 Acq: 22 Aug 2025 08:35

Tgt Ion:	63	Resp:	88457
Ion	Ratio	Lower	Upper
63	100		
41	0.2	55.0	82.4#
62	20.4	54.4	81.6#

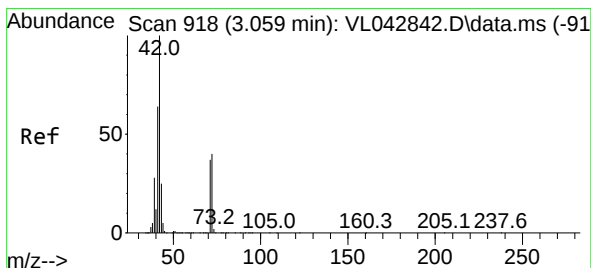
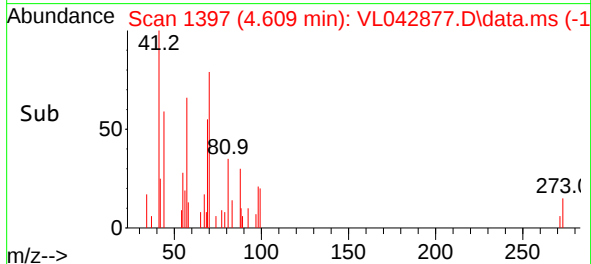
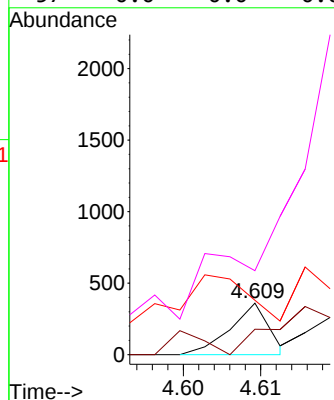
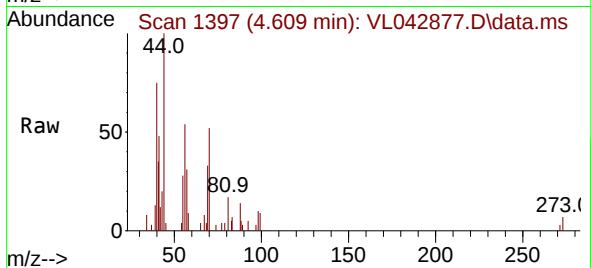




#40
1,4-Dioxane
Concen: 0.022 ppbv
RT: 4.609 min Scan# 11
Delta R.T. 0.019 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

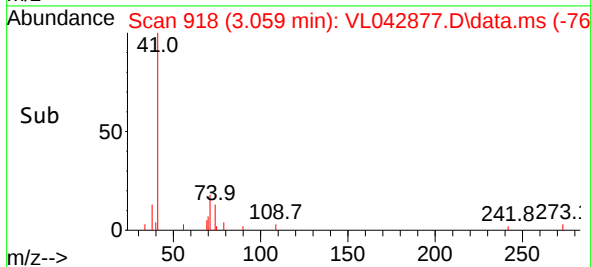
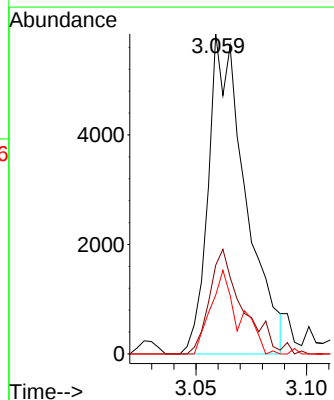
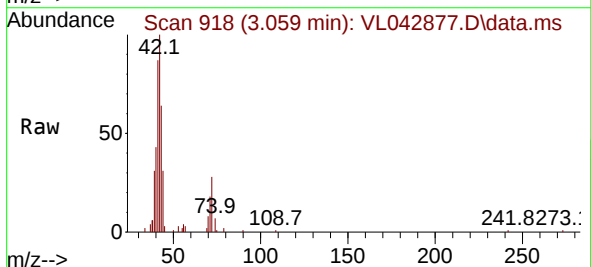
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

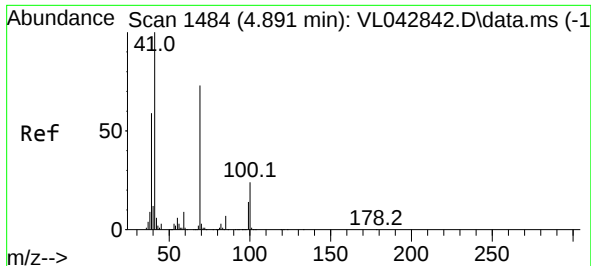
Tgt Ion: 88	Resp: 126
Ion Ratio	Lower Upper
88 100	
58 0.0	53.8 80.6#
43 884.9	22.8 34.2#
57 0.0	0.0 0.0



#41
Tetrahydrofuran
Concen: 0.518 ppbv
RT: 3.059 min Scan# 918
Delta R.T. -0.000 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

Tgt Ion: 42	Resp: 6801
Ion Ratio	Lower Upper
42 100	
72 29.4	32.6 48.8#
71 20.5	30.0 45.0#

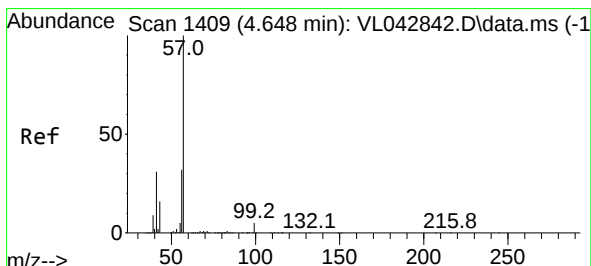
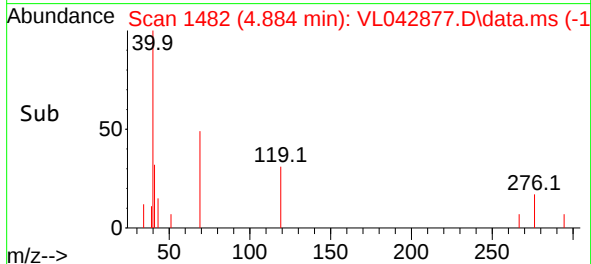
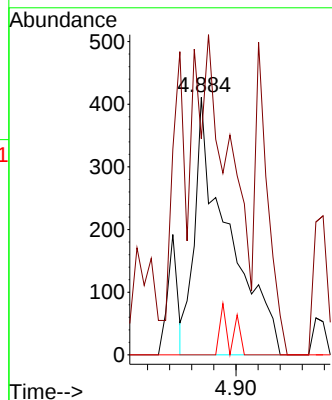
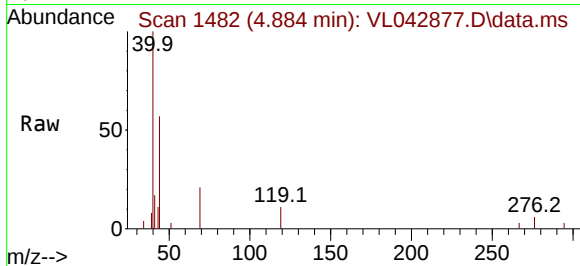




#43
Methyl Methacrylate
Concen: 0.031 ppbv
RT: 4.884 min Scan# 1484
Delta R.T. -0.006 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

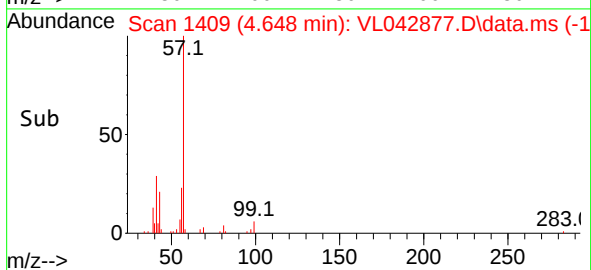
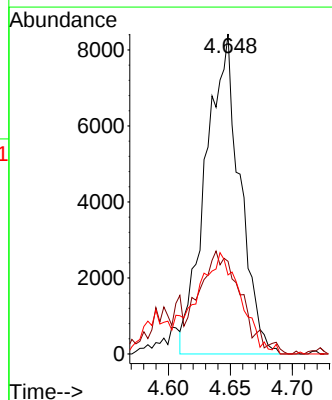
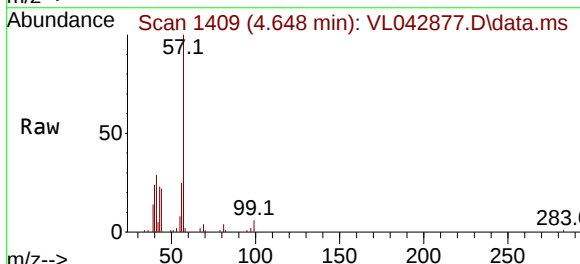
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

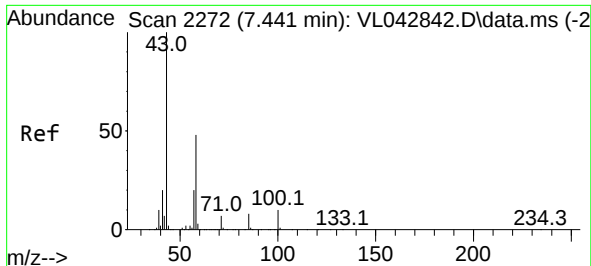
Tgt Ion: 69 Resp: 429
Ion Ratio Lower Upper
69 100
41 271.8 114.6 172.0#
100 0.0 30.2 45.4#



#44
2,2,4-Trimethylpentane
Concen: 0.286 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.000 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

Tgt Ion: 57 Resp: 16212
Ion Ratio Lower Upper
57 100
41 49.7 24.8 37.2#
56 50.7 25.5 38.3#

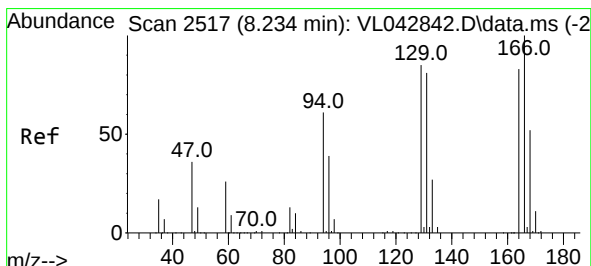
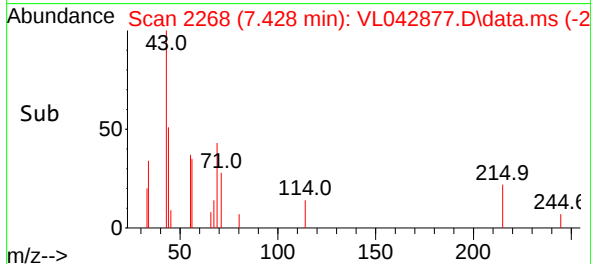
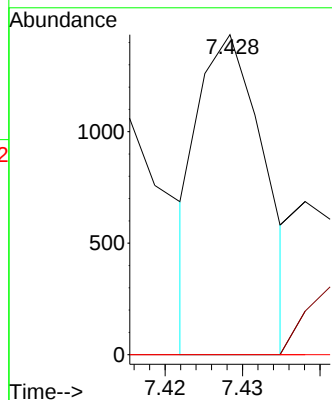
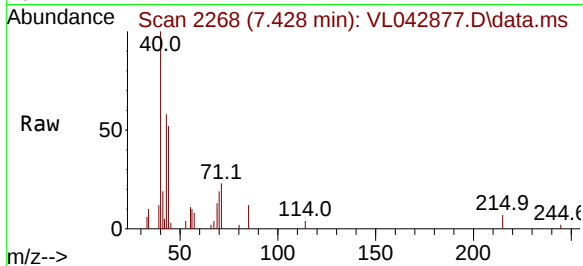




#51
2-Hexanone
Concen: 0.034 ppbv
RT: 7.428 min Scan# 21
Delta R.T. -0.013 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

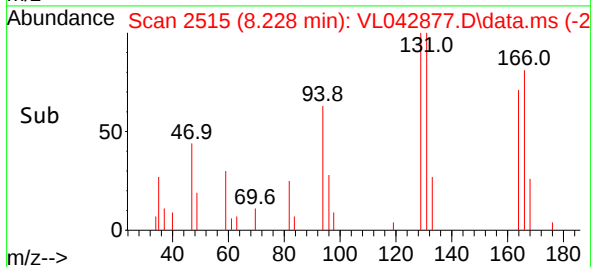
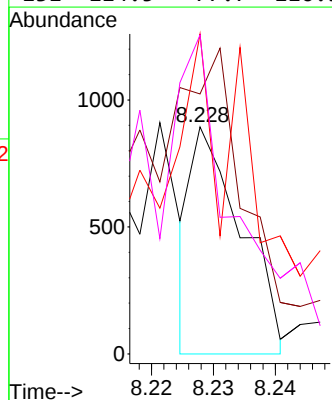
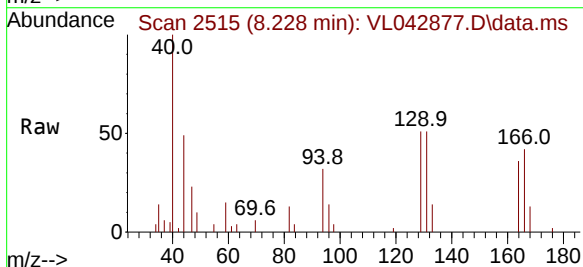
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

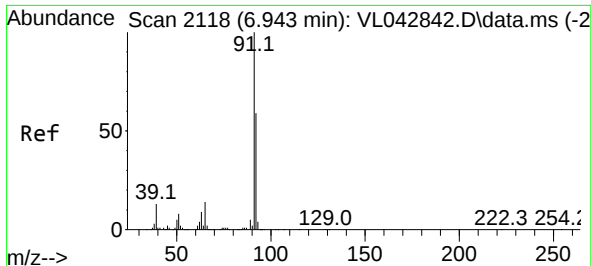
Tgt Ion: 43 Resp: 845
Ion Ratio Lower Upper
43 100
58 0.0 41.0 61.6#
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.042 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. -0.006 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

Tgt Ion: 164 Resp: 502
Ion Ratio Lower Upper
164 100
166 98.1 96.5 144.7
129 95.0 81.8 122.6
131 114.5 77.7 116.5

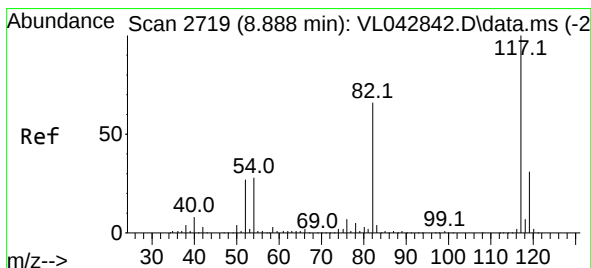
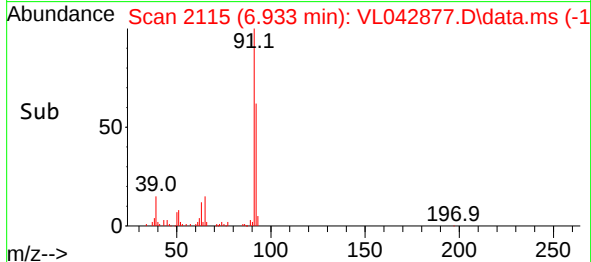
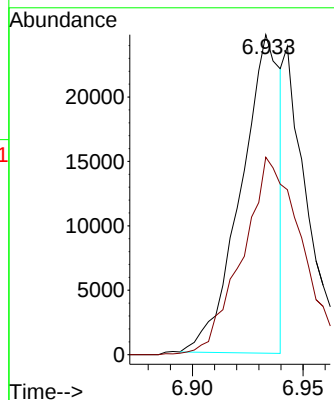
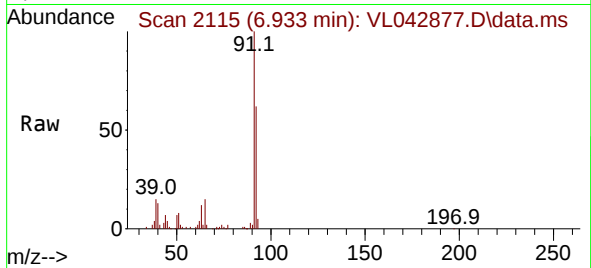




#53
Toluene
Concen: 0.766 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. -0.010 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

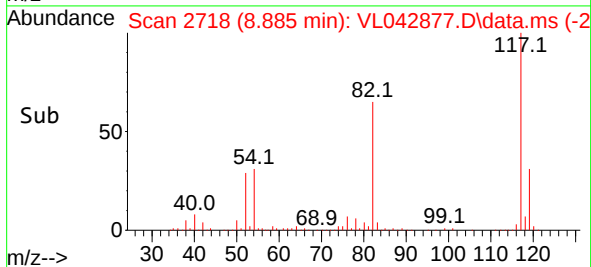
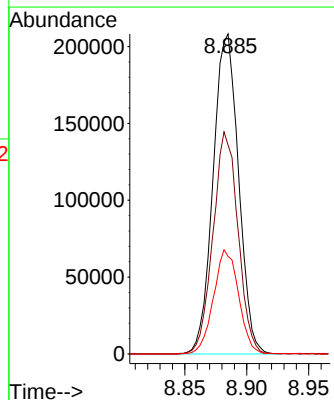
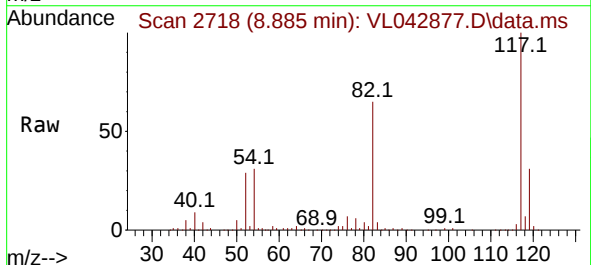
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

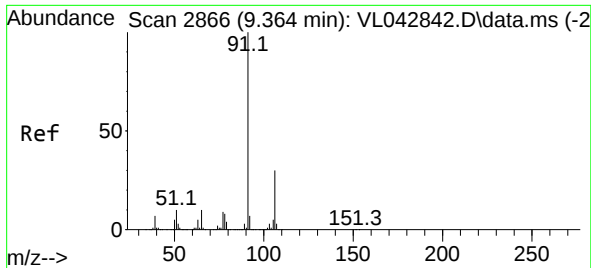
Tgt Ion: 91 Resp: 30447
Ion Ratio Lower Upper
91 100
92 93.8 47.8 71.6#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. -0.003 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

Tgt Ion: 117 Resp: 298585
Ion Ratio Lower Upper
117 100
82 68.2 54.6 81.8
119 32.3 25.9 38.9

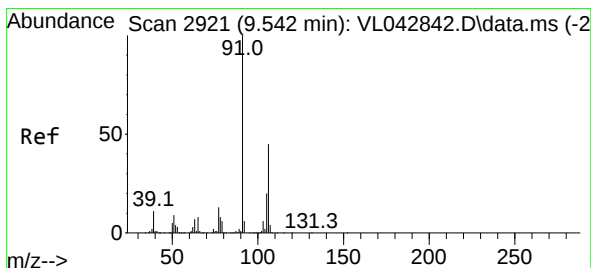
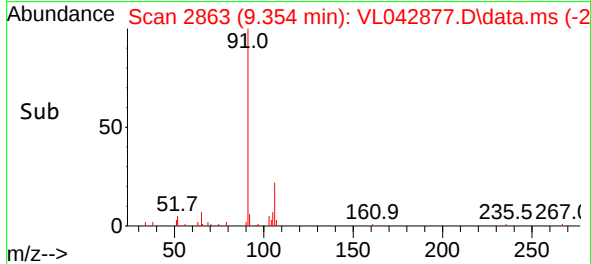
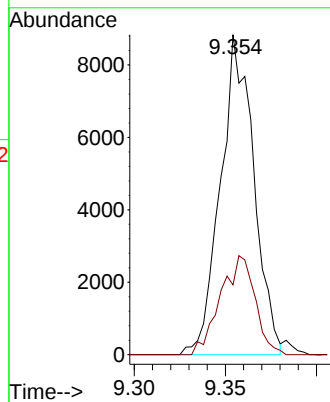
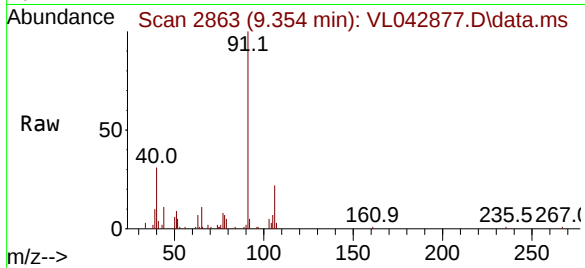




#58
Ethyl Benzene
Concen: 0.213 ppbv
RT: 9.354 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

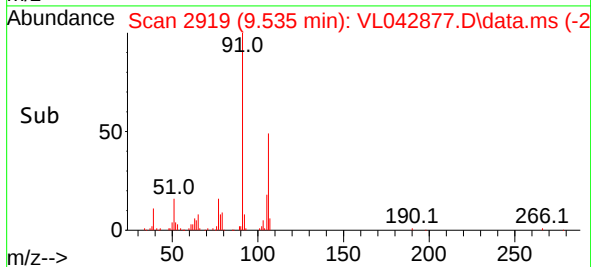
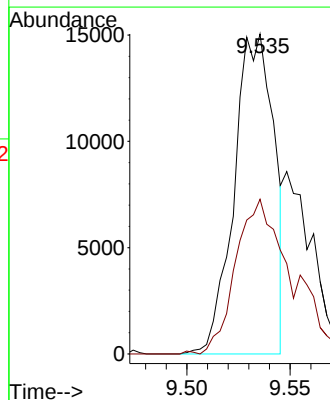
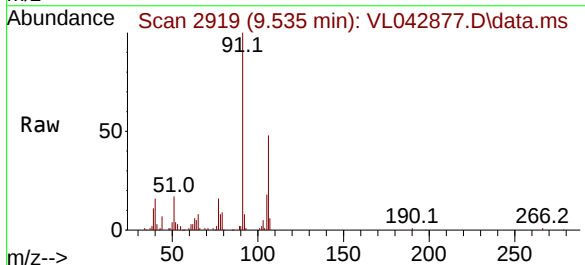
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

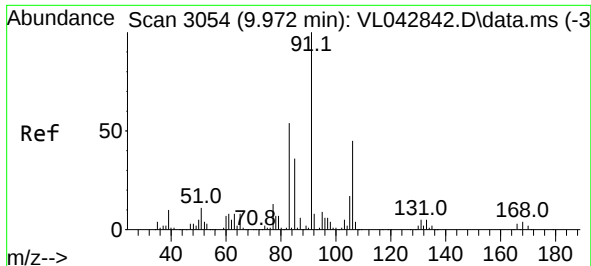
Tgt Ion: 91 Resp: 11241
Ion Ratio Lower Upper
91 100
106 21.8 23.9 35.9#



#59
m/p-Xylene
Concen: 0.490 ppbv
RT: 9.535 min Scan# 2919
Delta R.T. -0.006 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

Tgt Ion: 91 Resp: 20236
Ion Ratio Lower Upper
91 100
106 67.5 0.0 0.0#

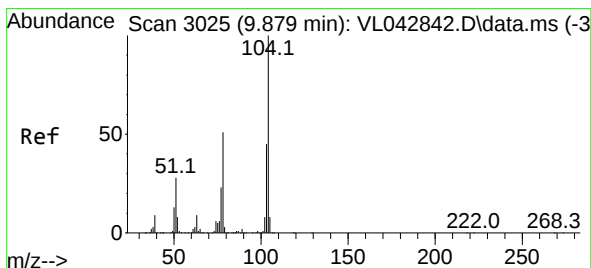
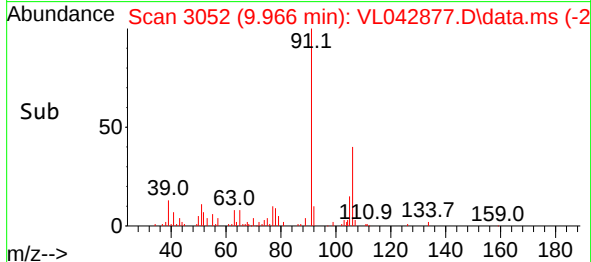
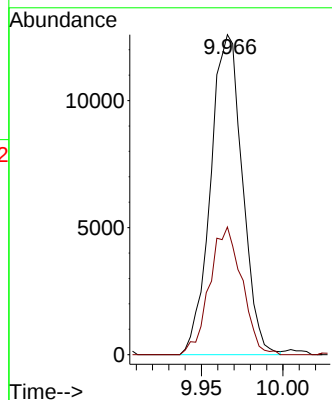
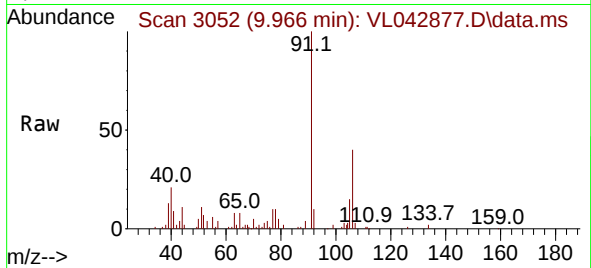




#60
o-Xylene
Concen: 0.412 ppbv
RT: 9.966 min Scan# 3054
Delta R.T. -0.006 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

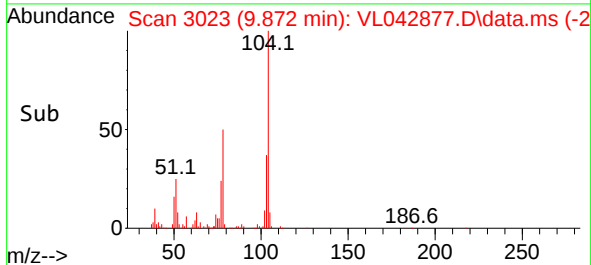
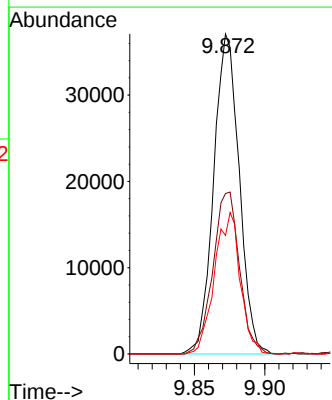
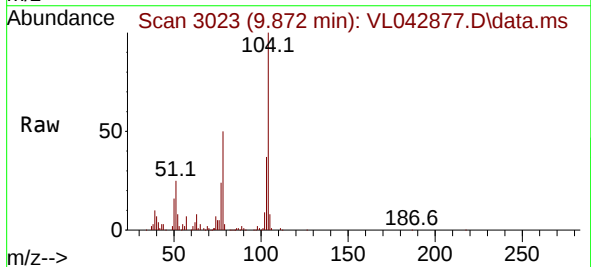
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

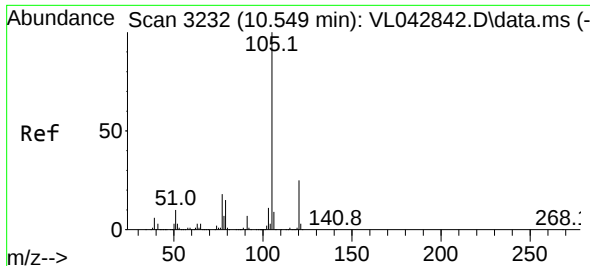
Tgt Ion: 91 Resp: 17099
Ion Ratio Lower Upper
91 100
106 40.6 21.8 65.4



#61
Styrene
Concen: 2.402 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. -0.006 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

Tgt Ion: 104 Resp: 46756
Ion Ratio Lower Upper
104 100
78 52.7 40.6 61.0
103 44.4 37.7 56.5

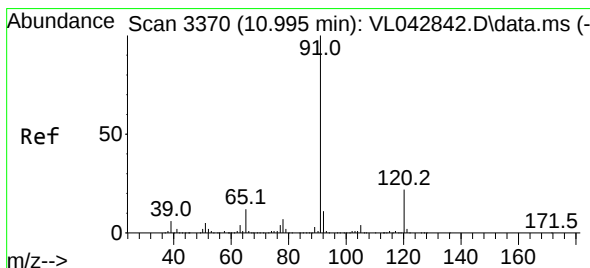
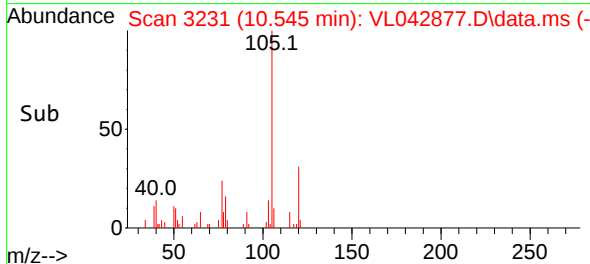
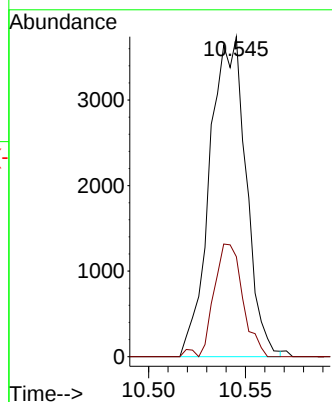
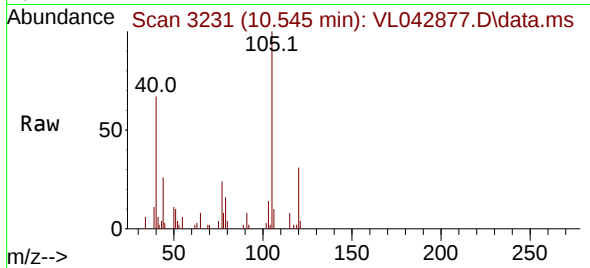




#62
Isopropylbenzene
Concen: 0.080 ppbv
RT: 10.545 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

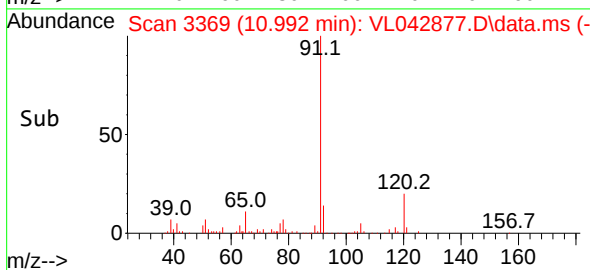
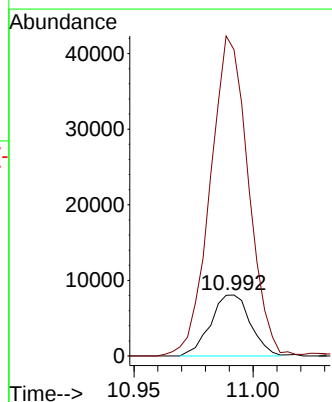
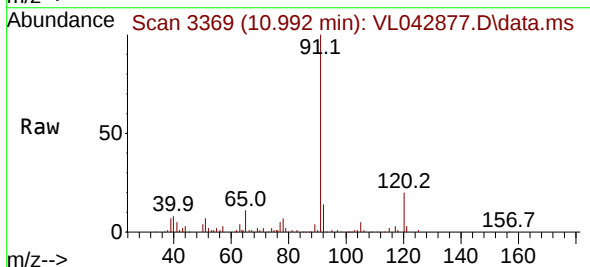
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

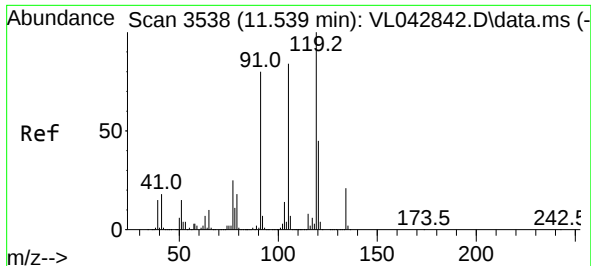
Tgt Ion:105 Resp: 4874
Ion Ratio Lower Upper
105 100
120 28.0 20.6 30.8



#64
n-propylbenzene
Concen: 0.603 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. -0.003 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

Tgt Ion:120 Resp: 9334
Ion Ratio Lower Upper
120 100
91 507.1 375.8 563.6

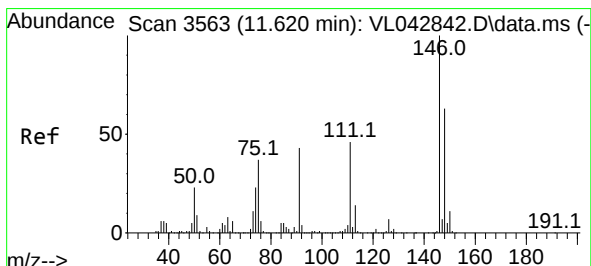
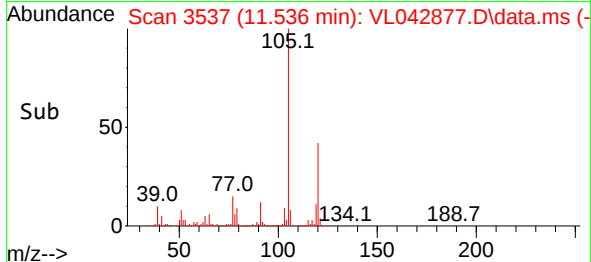
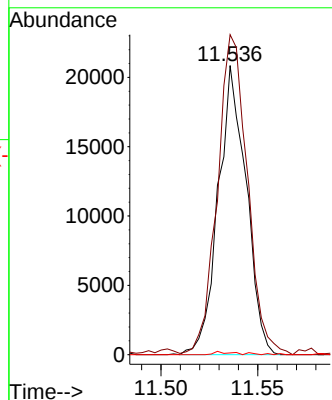
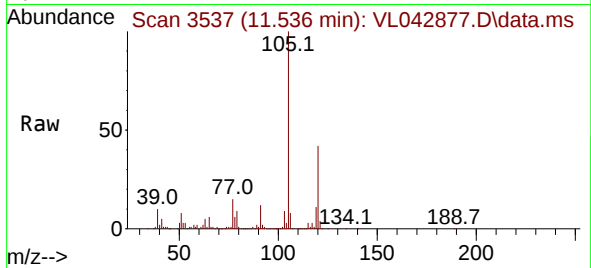




#65
tert-Butylbenzene
Concen: 0.392 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

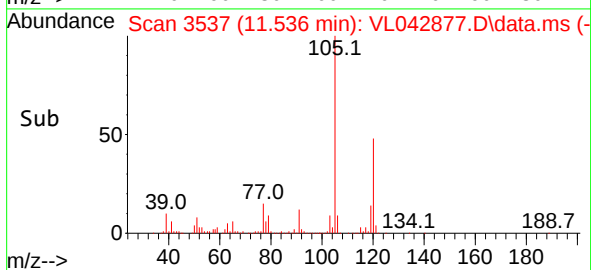
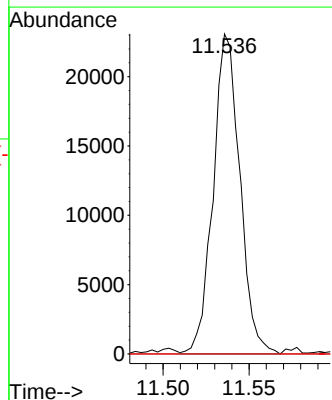
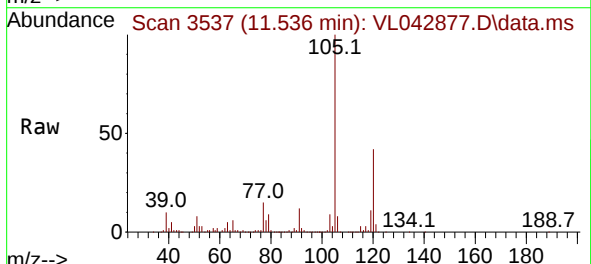
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

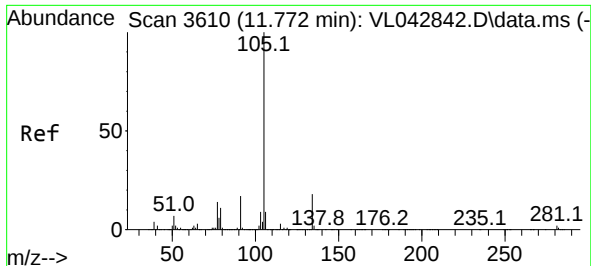
Tgt Ion:119 Resp: 20971
Ion Ratio Lower Upper
119 100
91 120.5 63.9 95.9#
134 0.0 17.0 25.4#



#66
Benzyl Chloride
Concen: 3.668 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.084 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

Tgt Ion: 91 Resp: 24923
Ion Ratio Lower Upper
91 100
126 0.0 14.2 21.4#
128 0.0 5.0 7.6#





#67

sec-Butylbenzene

Concen: 0.038 ppbv

RT: 11.772 min Scan# 30

Delta R.T. -0.000 min

Lab File: VL042877.D

Acq: 22 Aug 2025 08:35

Instrument :

MSVOA_L

ClientSampleId :

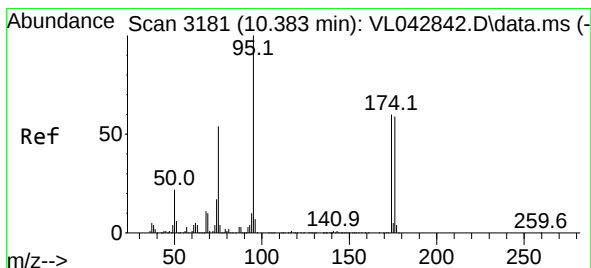
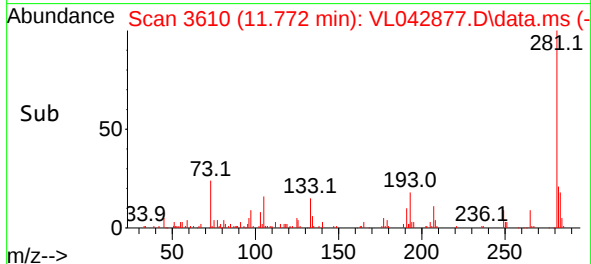
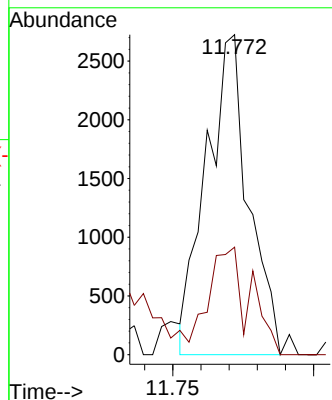
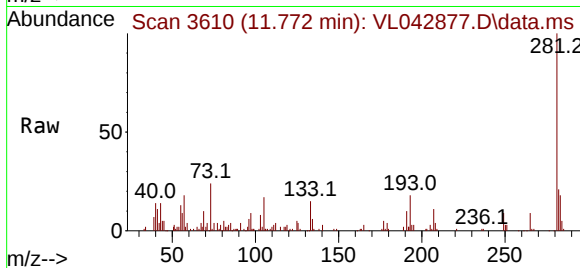
IA1DUP

Tgt Ion:105 Resp: 2834

Ion Ratio Lower Upper

105 100

134 33.2 14.9 22.3#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.654 ppbv

RT: 10.377 min Scan# 3179

Delta R.T. -0.006 min

Lab File: VL042877.D

Acq: 22 Aug 2025 08:35

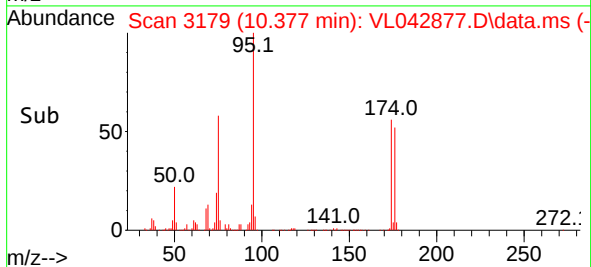
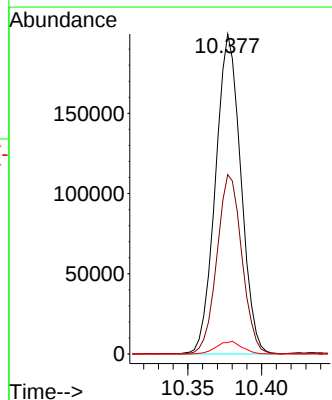
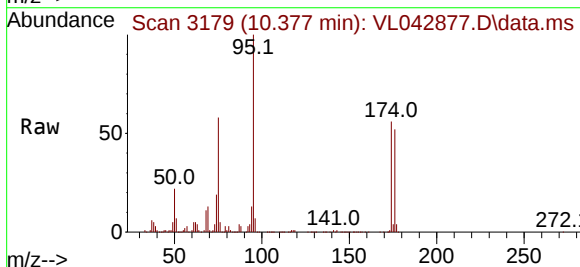
Tgt Ion: 95 Resp: 238583

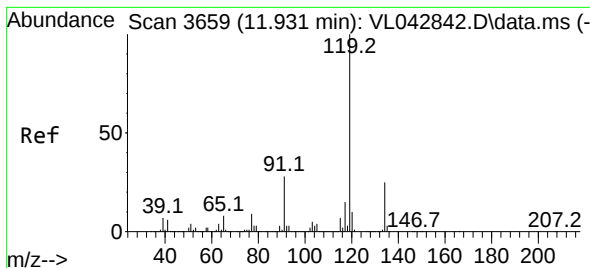
Ion Ratio Lower Upper

95 100

174 55.2 48.4 72.6

175 4.0 3.8 5.8





#69

p-Isopropyltoluene

Concen: 0.504 ppbv

RT: 11.927 min Scan# 3

Delta R.T. -0.003 min

Lab File: VL042877.D

Acq: 22 Aug 2025 08:35

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

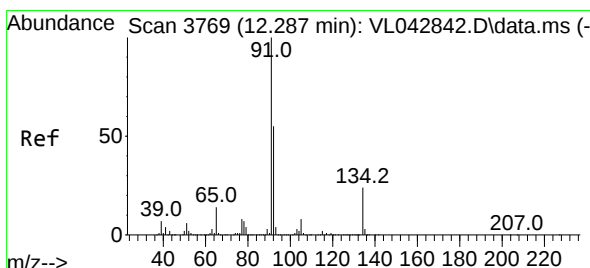
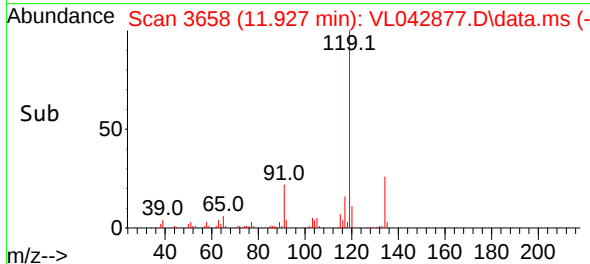
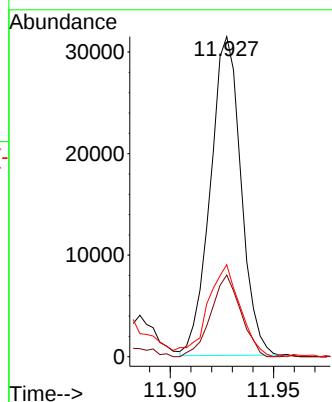
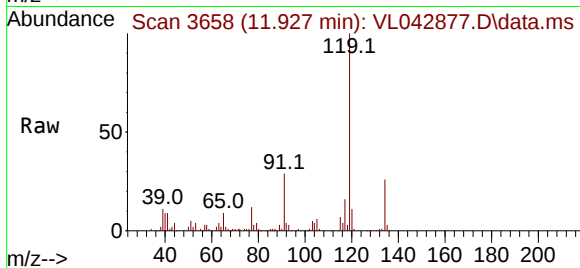
Tgt Ion:119 Resp: 32491

Ion Ratio Lower Upper

119 100

134 25.0 20.6 30.8

91 31.3 22.6 34.0



#70

n-Butylbenzene

Concen: 0.035 ppbv

RT: 12.283 min Scan# 3768

Delta R.T. -0.003 min

Lab File: VL042877.D

Acq: 22 Aug 2025 08:35

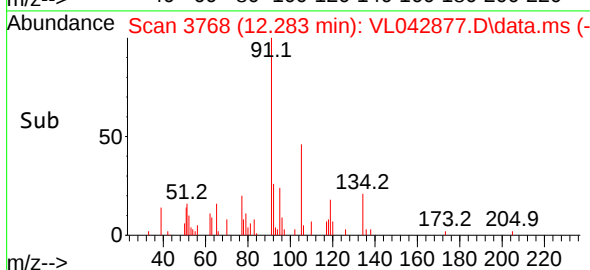
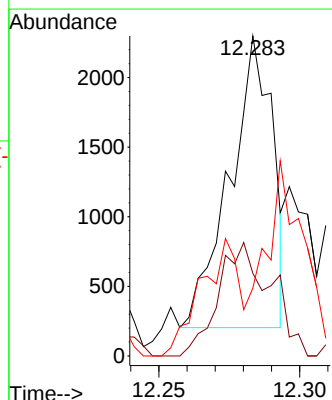
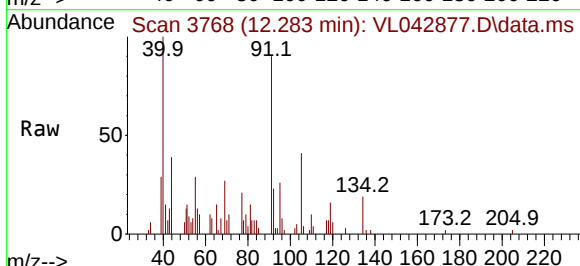
Tgt Ion: 91 Resp: 2217

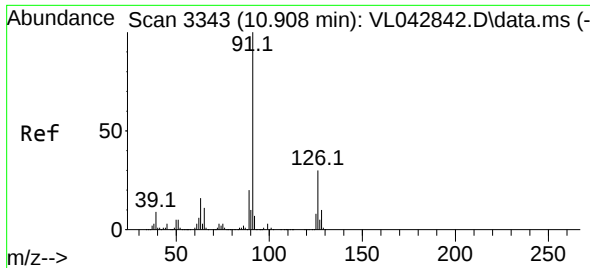
Ion Ratio Lower Upper

91 100

92 47.5 44.6 66.8

134 0.0 19.0 28.4#

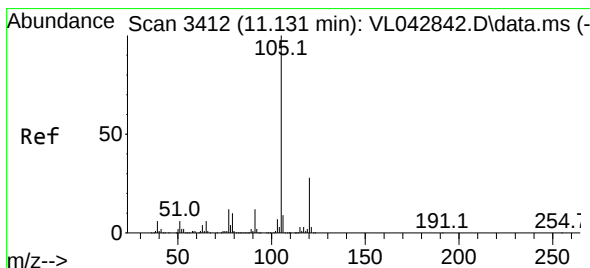
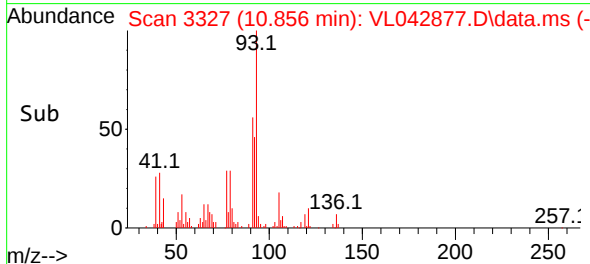
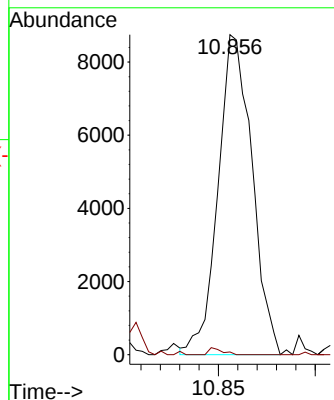
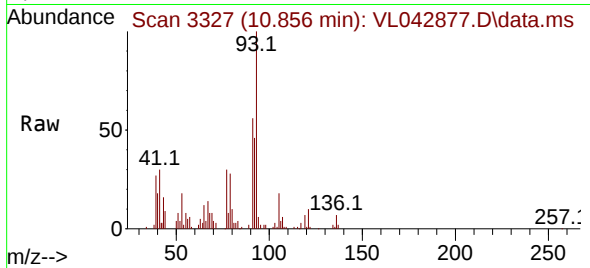




#71
2-Chlorotoluene
Concen: 0.226 ppbv
RT: 10.856 min Scan# 3111
Delta R.T. -0.052 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

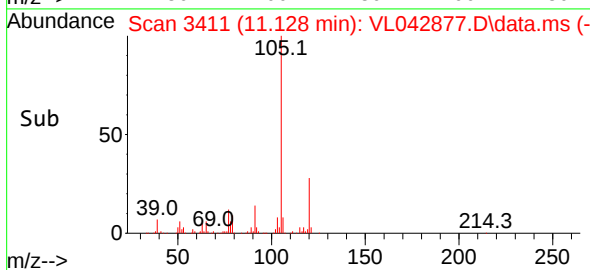
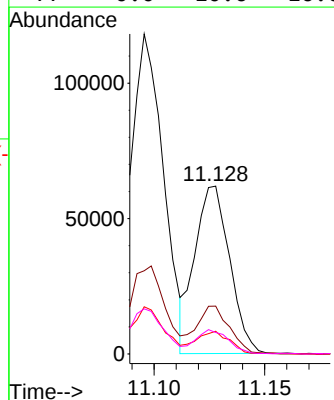
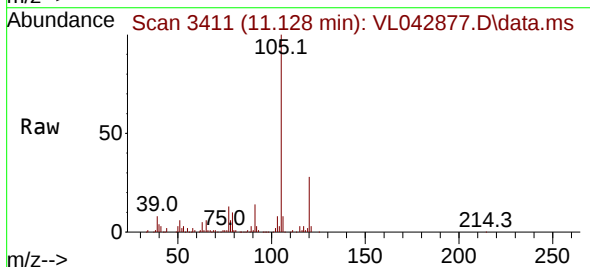
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

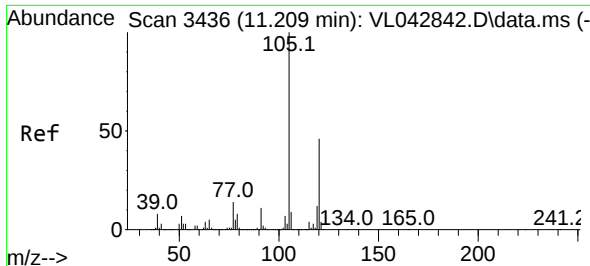
Tgt Ion: 91 Resp: 10656
Ion Ratio Lower Upper
91 100
126 0.9 12.0 47.8#



#72
4-Ethyltoluene
Concen: 1.346 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.003 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

Tgt Ion: 105 Resp: 67795
Ion Ratio Lower Upper
105 100
120 0.0 23.4 35.2#
91 0.0 9.8 14.6#
77 0.0 10.6 16.0#

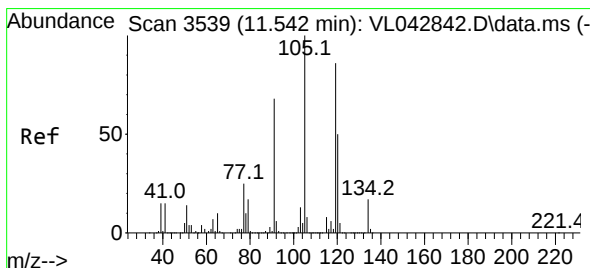
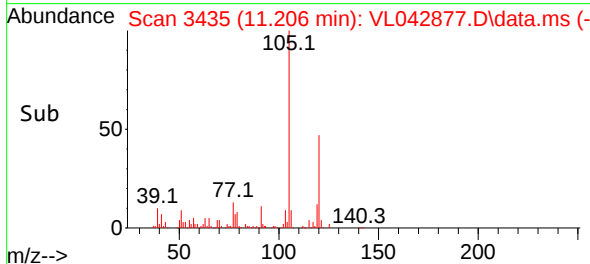
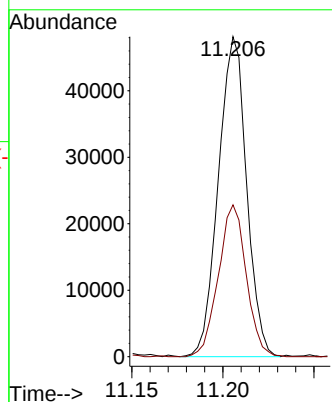
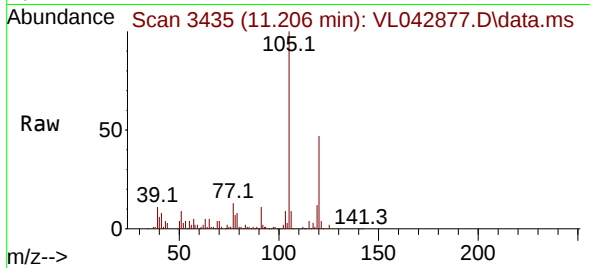




#73
 1,3,5-Trimethylbenzene
 Concen: 1.208 ppbv
 RT: 11.206 min Scan# 3436
 Delta R.T. -0.003 min
 Lab File: VL042877.D
 Acq: 22 Aug 2025 08:35

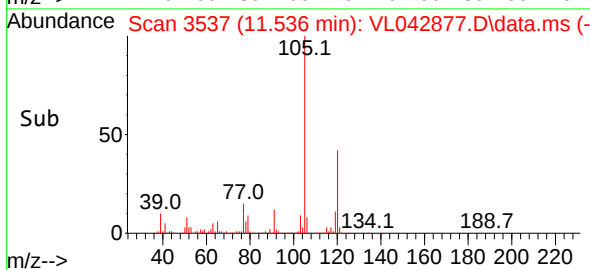
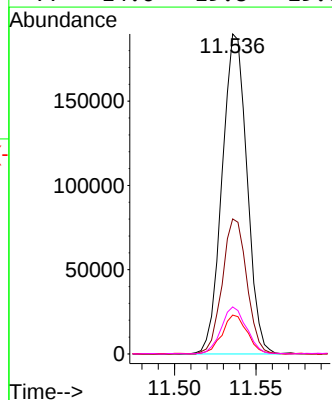
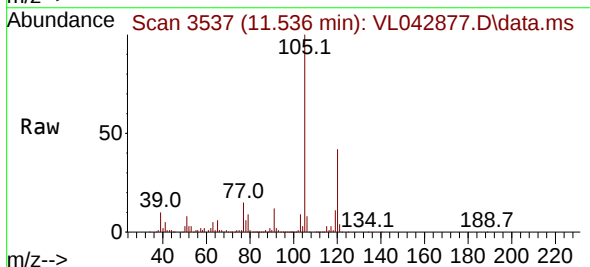
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

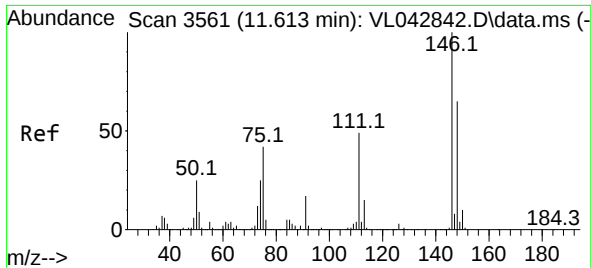
Tgt Ion:105 Resp: 51748
 Ion Ratio Lower Upper
 105 100
 120 47.5 36.6 54.8



#74
 1,2,4-Trimethylbenzene
 Concen: 4.278 ppbv
 RT: 11.536 min Scan# 3537
 Delta R.T. -0.006 min
 Lab File: VL042877.D
 Acq: 22 Aug 2025 08:35

Tgt Ion:105 Resp: 201120
 Ion Ratio Lower Upper
 105 100
 120 42.2 39.8 59.6
 91 12.0 54.2 81.4#
 77 14.6 19.8 29.6#

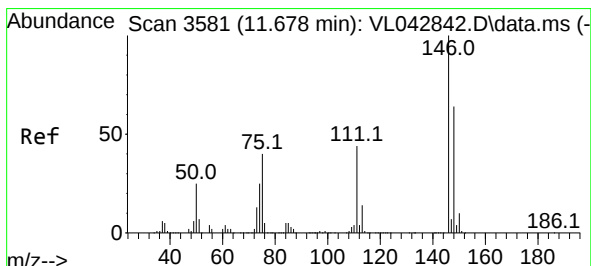
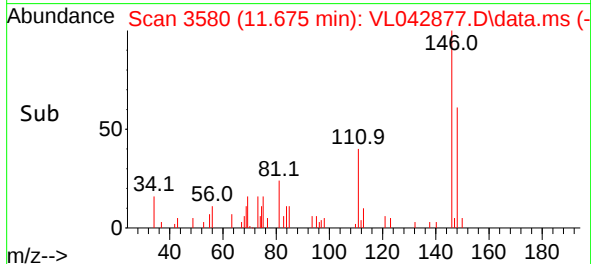
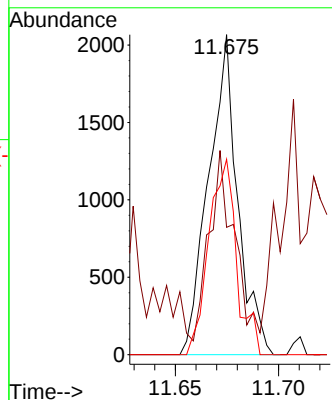
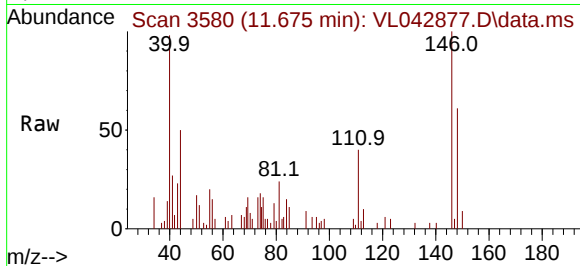




#75
1,3-Dichlorobenzene
Concen: 0.076 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.061 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

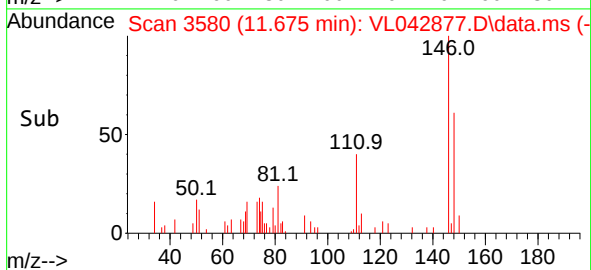
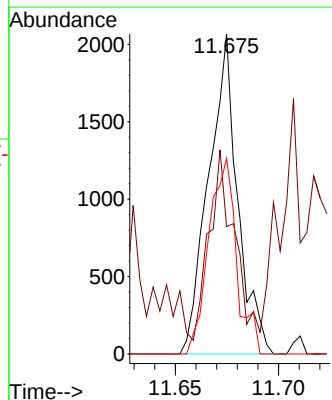
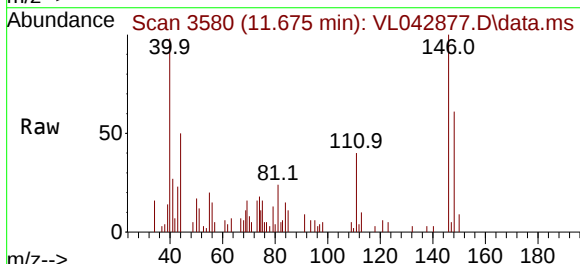
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

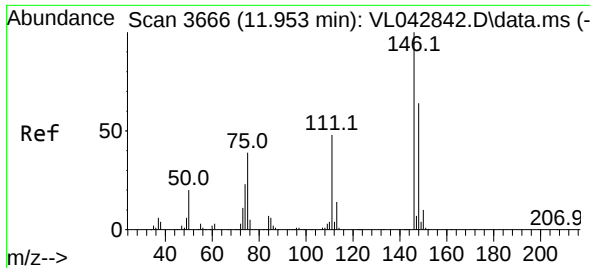
Tgt Ion:146	Resp:	2026
Ion Ratio	Lower	Upper
146	100	
111	51.4	23.9 71.7
148	58.2	31.4 94.0



#76
1,4-Dichlorobenzene
Concen: 0.075 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. -0.003 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

Tgt Ion:146	Resp:	2026
Ion Ratio	Lower	Upper
146	100	
111	48.6	22.7 68.1
148	58.2	31.8 95.3

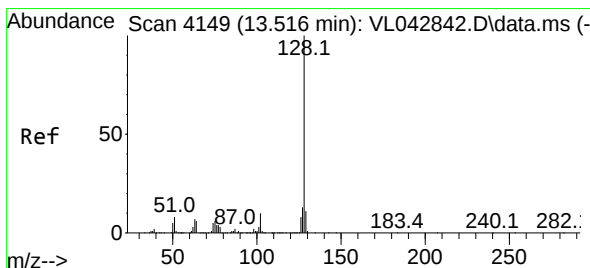
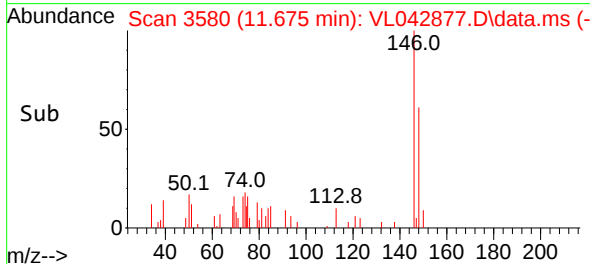
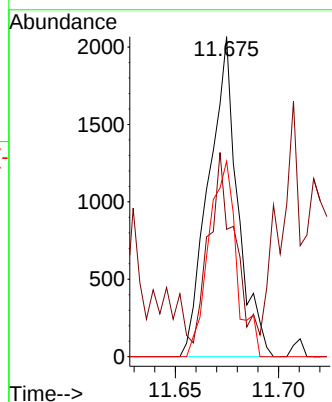
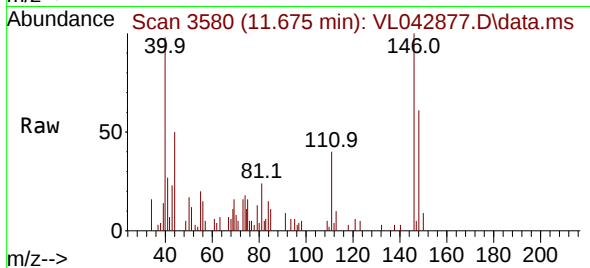




#77
1,2-Dichlorobenzene
Concen: 0.077 ppbv
RT: 11.675 min Scan# 31
Delta R.T. -0.278 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

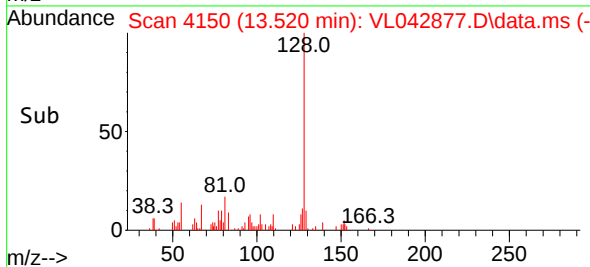
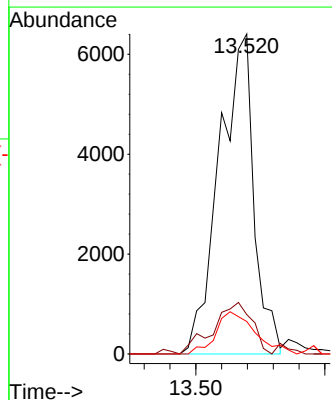
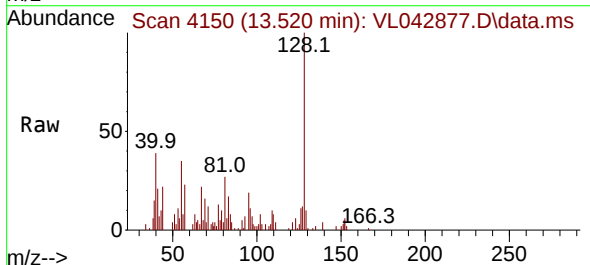
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

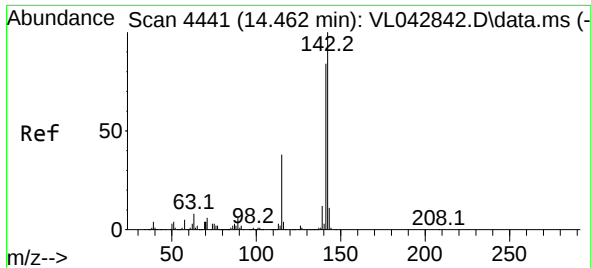
Tgt Ion:146	Resp:	2026
Ion Ratio	Lower	Upper
146	100	
111	53.8	24.6 74.0
148	58.2	32.0 96.0



#79
Naphthalene
Concen: 0.140 ppbv
RT: 13.520 min Scan# 4150
Delta R.T. 0.003 min
Lab File: VL042877.D
Acq: 22 Aug 2025 08:35

Tgt Ion:128	Resp:	5978
Ion Ratio	Lower	Upper
128	100	
127	12.3	10.6 16.0
129	10.2	8.9 13.3





#80
 Naphthalene, 2-methyl-
 Concen: 0.037 ppbv
 RT: 14.458 min Scan# 4440
 Delta R.T. -0.003 min
 Lab File: VL042877.D
 Acq: 22 Aug 2025 08:35

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Tgt Ion	Ratio	Lower	Upper
142	100		
141	106.8	67.0	100.6#
115	135.0	30.9	46.3#

