

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110325\
 Data File : VL043138.D
 Acq On : 03 Nov 2025 09:17
 Operator : SY/MD
 Sample : VL1103ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1103ABL01

Quant Time: Nov 04 03:06:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	123619	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	415442	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	365428	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	271264	9.550	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.500%

Target Compounds						Qvalue
3) Chlorodifluoromethane	1.476	51	65	0.003	ppbv	98
4) Chloromethane	1.538	50	155	0.022	ppbv #	43
5) Vinyl Chloride	1.693	62	24	0.004	ppbv #	44
6) Bromomethane	1.680	94	86	0.023	ppbv #	42
7) Chloroethane	1.680	64	29	0.010	ppbv #	1
9) Propene	1.492	41	159	0.019	ppbv #	15
10) Heptane	4.962	43	62	0.003	ppbv #	27
11) Trichlorofluoromethane	2.237	101	23	0.001	ppbv #	20
12) 1,1,2-Trichlorotrifluo...	2.237	101	23	0.002	ppbv #	1
14) Bromoethene	1.615	108	27	0.005	ppbv #	1
17) tert-Butyl alcohol	2.046	59	243	0.011	ppbv #	1
18) 1,1-Dichloroethene	2.033	96	12	0.002	ppbv #	1
21) Allyl Chloride	2.094	41	169	0.014	ppbv #	21
22) trans-1,2-Dichloroethene	2.344	96	66	0.009	ppbv #	1
23) Vinyl Acetate	2.460	43	267	0.011	ppbv #	1
24) 1,1-Dichloroethane	2.415	63	73	0.005	ppbv #	64
25) Ethyl Acetate	2.836	43	96	0.002	ppbv #	75
26) Hexane	2.823	57	99	0.005	ppbv #	1
27) Carbon Disulfide	2.146	76	49	0.003	ppbv #	60
28) Methyl tert-Butyl Ether	2.408	73	31	0.004	ppbv #	10
29) Chloroform	2.842	83	123	0.004	ppbv #	18
30) Cyclohexane	3.926	84	17	0.001	ppbv #	1
31) cis-1,2-Dichloroethene	2.784	61	25	0.001	ppbv #	1
32) 1,1,1-Trichloroethane	2.930	97	40	0.001	ppbv #	30
35) Carbon Tetrachloride	3.590	117	21	0.001	ppbv #	13
36) Benzene	3.658	78	185	0.005	ppbv #	57
37) 1,2-Dichloroethane	3.409	62	45	0.002	ppbv #	1
38) Trichloroethene	4.551	130	47	0.003	ppbv #	3
40) 1,4-Dioxane	4.431	88	28	0.004	ppbv #	1
41) Tetrahydrofuran	3.056	42	56	0.004	ppbv #	37
42) Bromodichloromethane	4.509	83	38	0.001	ppbv #	25
43) Methyl Methacrylate	4.878	69	61	0.003	ppbv #	1
44) 2,2,4-Trimethylpentane	4.642	57	33	0.000	ppbv #	1
45) t-1,3-Dichloropropene	6.409	75	31	0.002	ppbv #	43
46) cis-1,3-Dichloropropene	5.635	75	26	0.001	ppbv #	27
47) 1,1,2-Trichloroethane	6.354	97	57	0.004	ppbv #	17
48) Dibromochloromethane	7.390	129	65	0.003	ppbv #	28
49) Bromoform	9.477	173	137	0.007	ppbv #	56
50) 4-Methyl-2-Pentanone	5.749	43	20	0.001	ppbv #	38
51) 2-Hexanone	7.441	43	27	0.001	ppbv #	1
53) Toluene	6.927	91	69	0.001	ppbv #	1
54) 1,2-Dibromoethane	7.655	107	48	0.002	ppbv #	4
56) 1,1,1,2-Tetrachloroethane	8.930	131	42	0.002	ppbv #	1

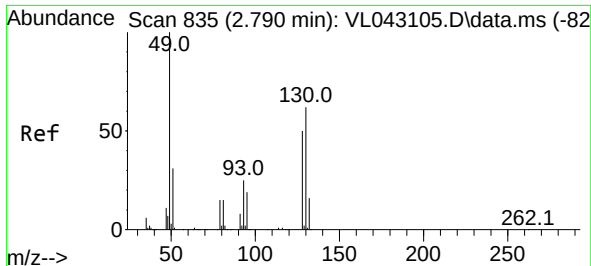
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110325\
 Data File : VL043138.D
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Instrument :
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Quant Time: Nov 04 03:06:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
57) Chlorobenzene	8.914	112	193	0.006	ppbv	#	63
58) Ethyl Benzene	9.351	91	106	0.002	ppbv	#	75
59) m/p-Xylene	9.542	91	190	0.004	ppbv	#	1
60) o-Xylene	9.963	91	193	0.004	ppbv		70
61) Styrene	9.869	104	28	0.001	ppbv	#	1
62) Isopropylbenzene	10.532	105	213	0.002	ppbv	#	50
63) 1,1,2,2-Tetrachloroethane	9.963	83	96	0.003	ppbv	#	53
64) n-propylbenzene	11.118	120	45	0.002	ppbv	#	1
65) tert-Butylbenzene	11.526	119	235	0.003	ppbv	#	19
66) Benzyl Chloride	11.610	91	32	0.004	ppbv	#	65
67) sec-Butylbenzene	11.762	105	563	0.005	ppbv	#	57
69) p-Isopropyltoluene	11.924	119	725	0.008	ppbv	#	89
70) n-Butylbenzene	12.274	91	197	0.002	ppbv	#	32
71) 2-Chlorotoluene	10.905	91	467	0.007	ppbv	#	45
72) 4-Ethyltoluene	11.125	105	396	0.007	ppbv	#	87
73) 1,3,5-Trimethylbenzene	11.202	105	253	0.005	ppbv		98
74) 1,2,4-Trimethylbenzene	11.536	105	613	0.011	ppbv	#	51
75) 1,3-Dichlorobenzene	11.610	146	396	0.012	ppbv		74
76) 1,4-Dichlorobenzene	11.672	146	439	0.013	ppbv		85
77) 1,2-Dichlorobenzene	11.950	146	755	0.024	ppbv		94
78) Hexachloro-1,3-Butadiene	13.876	225	262	0.011	ppbv	#	13
79) Naphthalene	13.513	128	1730	0.030	ppbv	#	81
80) Naphthalene,2-methyl-	14.598	142	58	0.004	ppbv		88
81) 1,2,4-Trichlorobenzene	13.426	180	25	0.001	ppbv	#	13

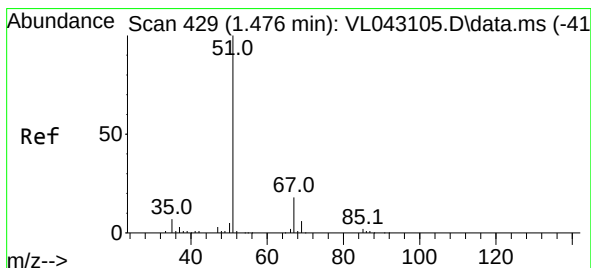
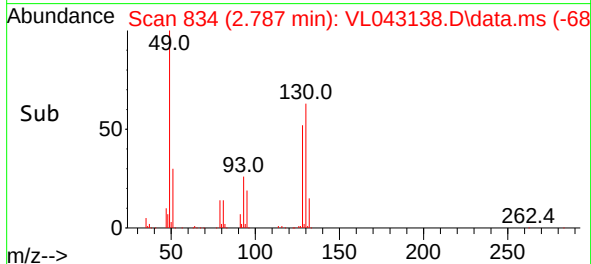
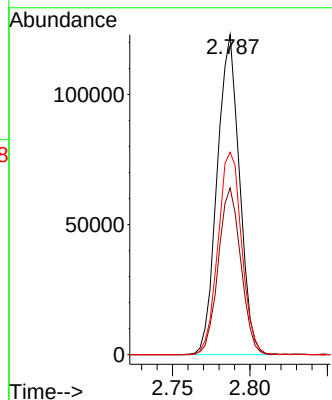
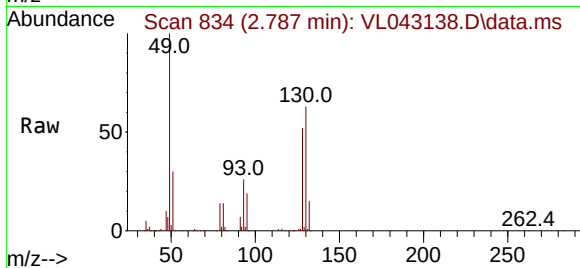
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

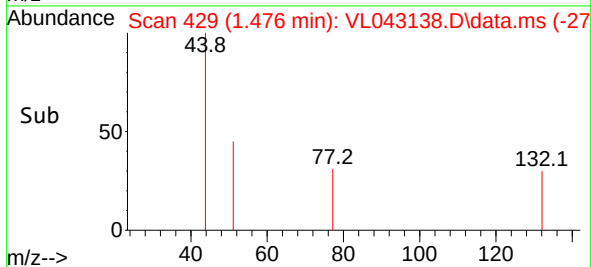
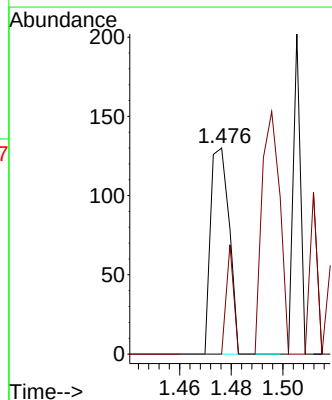
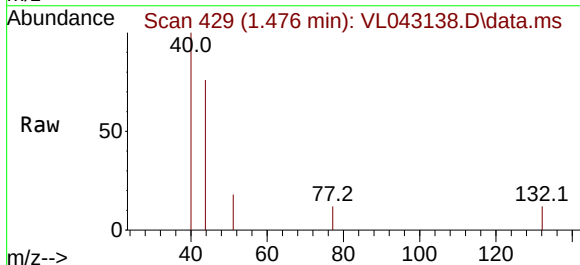
Instrument :
MSVOA_L
ClientSampleId :
VL1103ABL01

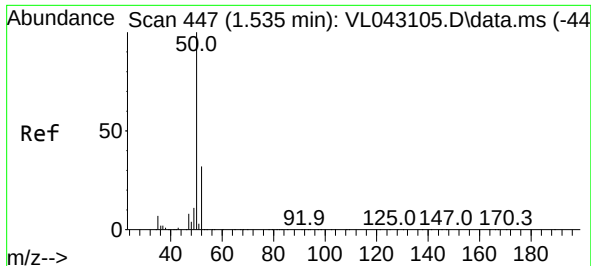
Tgt Ion: 49 Resp: 123619
Ion Ratio Lower Upper
49 100
128 52.6 24.4 73.4
130 66.9 31.0 93.0



#3
Chlorodifluoromethane
Concen: 0.003 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

Tgt Ion: 51 Resp: 65
Ion Ratio Lower Upper
51 100
67 20.0 15.1 22.7

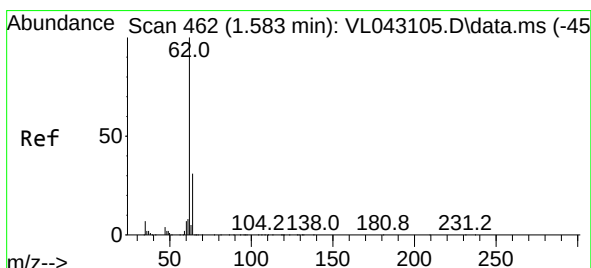
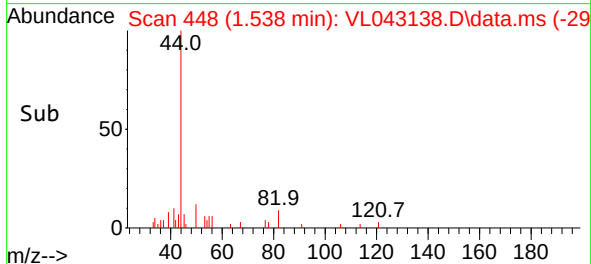
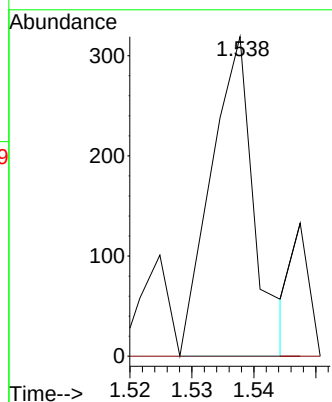
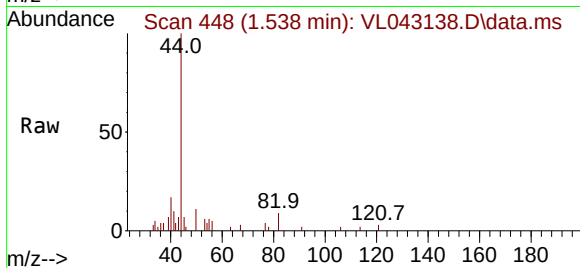




#4
Chloromethane
Concen: 0.022 ppbv
RT: 1.538 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

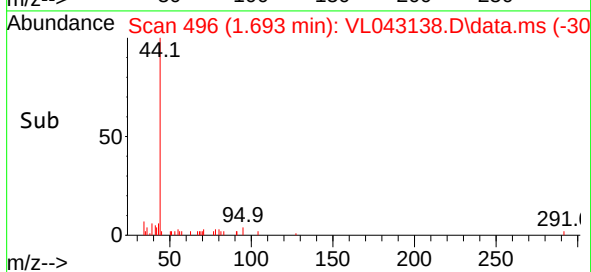
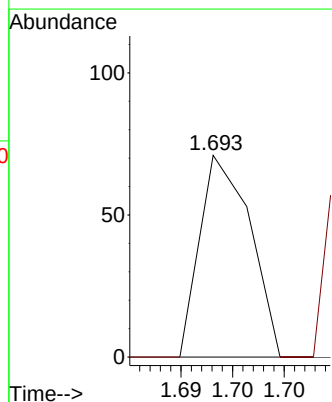
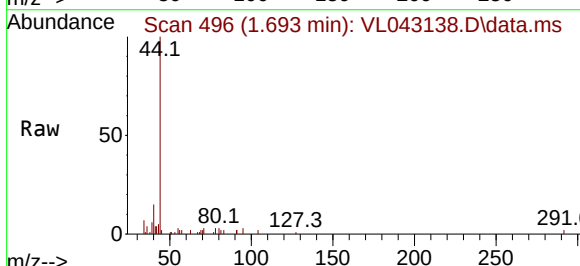
Instrument :
MSVOA_L
ClientSampleId :
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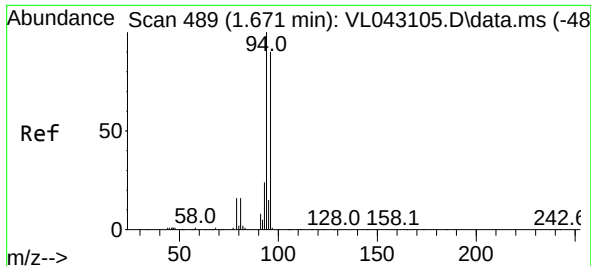
Tgt Ion: 50 Resp: 155
Ion Ratio Lower Upper
50 100
52 0.0 25.2 37.8#



#5
Vinyl Chloride
Concen: 0.004 ppbv
RT: 1.693 min Scan# 496
Delta R.T. 0.110 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

Tgt Ion: 62 Resp: 24
Ion Ratio Lower Upper
62 100
64 0.0 24.6 36.8#

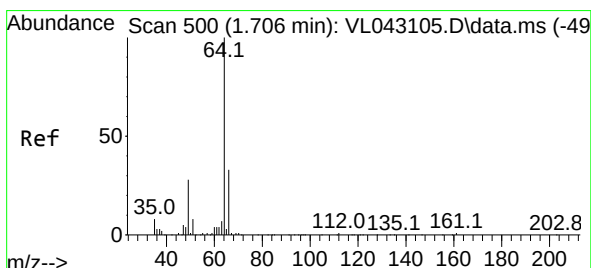
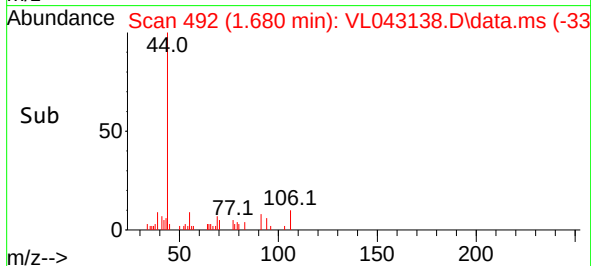
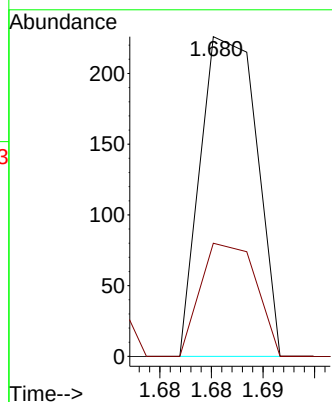
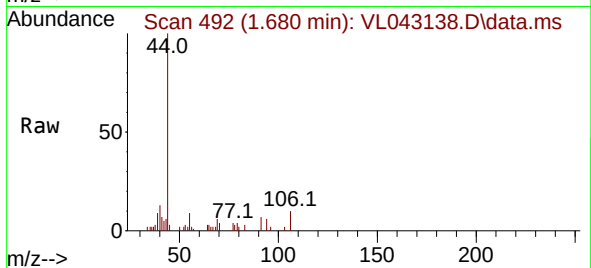




#6
Bromomethane
Concen: 0.023 ppbv
RT: 1.680 min Scan# 491
Delta R.T. 0.010 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

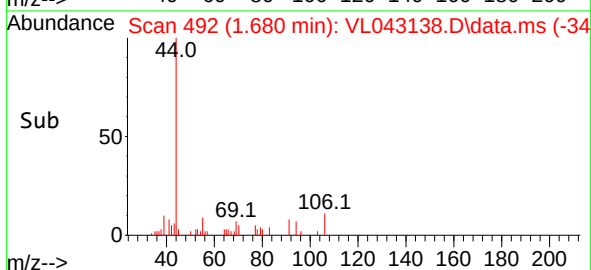
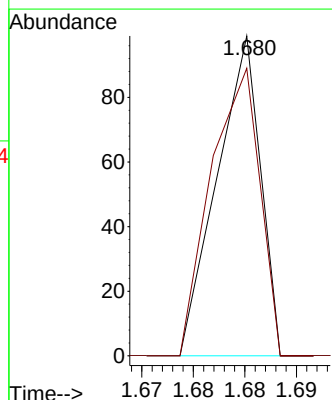
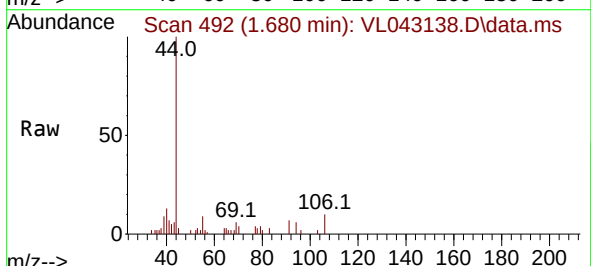
Instrument :
MSVOA_1
ClientSampleId :
VL1103ABL01

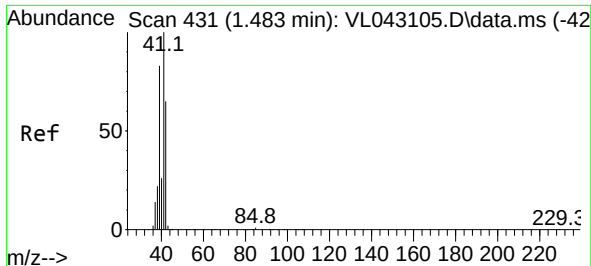
Tgt Ion: 94 Resp: 86
Ion Ratio Lower Upper
94 100
96 35.4 72.2 108.4#



#7
Chloroethane
Concen: 0.010 ppbv
RT: 1.680 min Scan# 492
Delta R.T. -0.026 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

Tgt Ion: 64 Resp: 29
Ion Ratio Lower Upper
64 100
66 89.9 26.0 39.0#





#9

Propene

Concen: 0.019 ppbv

RT: 1.492 min Scan# 41

Delta R.T. 0.010 min

Lab File: VL043138.D

Acq: 03 Nov 2025 09:17

Instrument :

MSVOA_L

ClientSampleId :

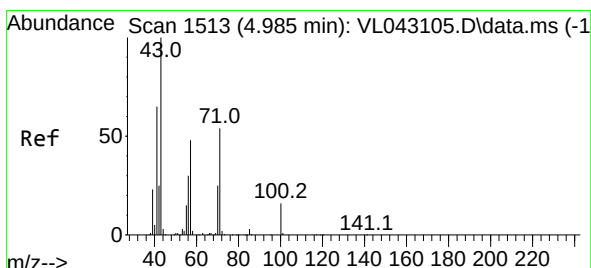
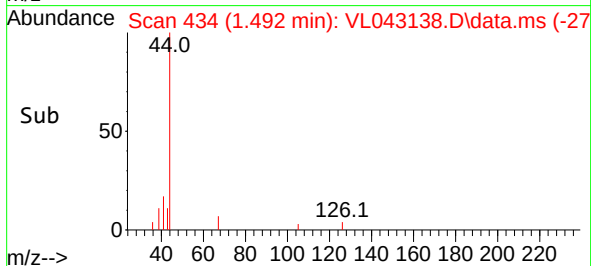
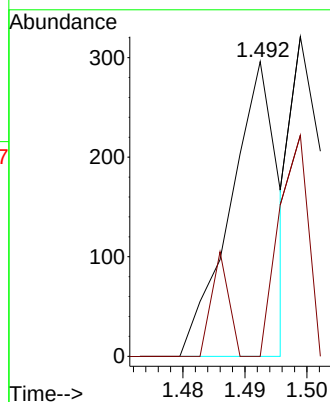
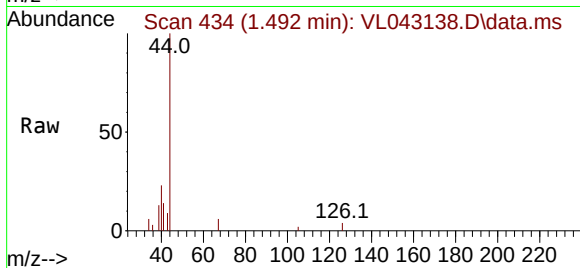
VL1103ABL01

Tgt Ion: 41 Resp: 159

Ion Ratio Lower Upper

41 100

42 0.0 55.1 82.7#



#10

Heptane

Concen: 0.003 ppbv

RT: 4.962 min Scan# 1506

Delta R.T. -0.023 min

Lab File: VL043138.D

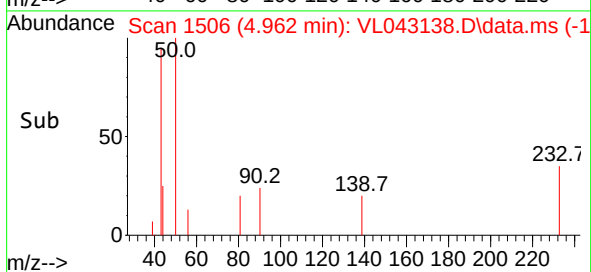
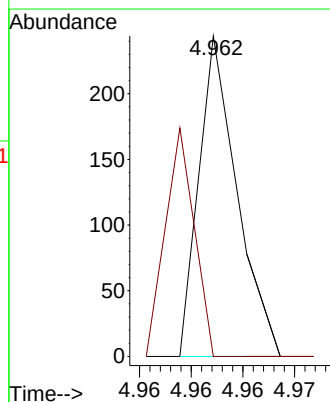
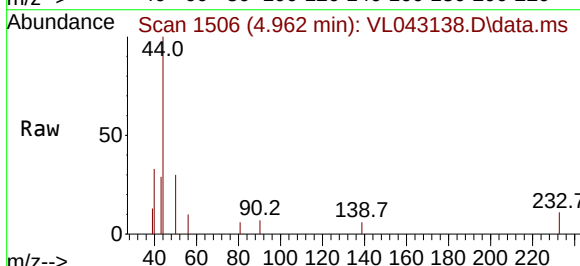
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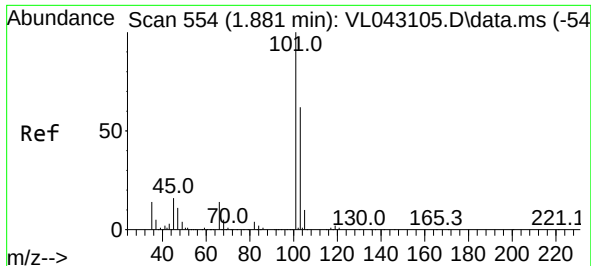
Tgt Ion: 43 Resp: 62

Ion Ratio Lower Upper

43 100

57 0.0 40.8 61.2#

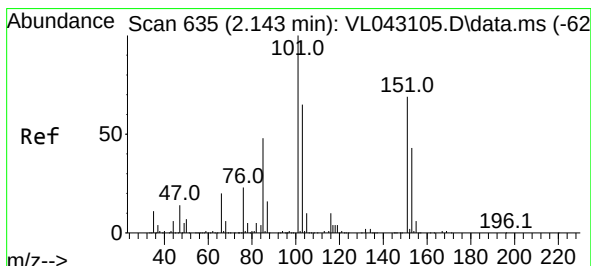
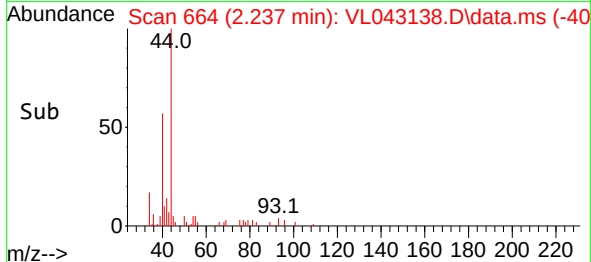
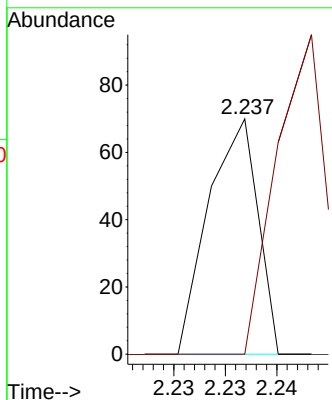
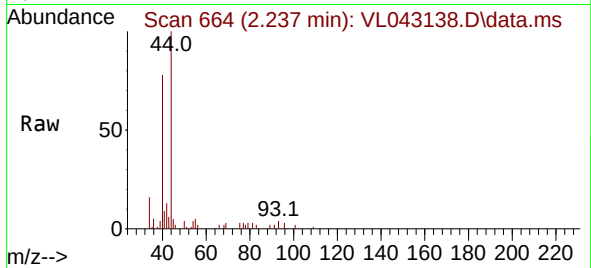




#11
 Trichlorofluoromethane
 Concen: 0.001 ppbv
 RT: 2.237 min Scan# 60
 Delta R.T. 0.356 min
 Lab File: VL043138.D
 Acq: 03 Nov 2025 09:17

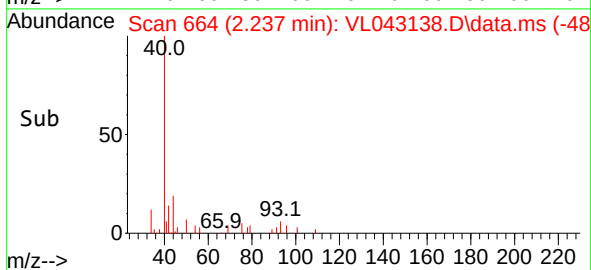
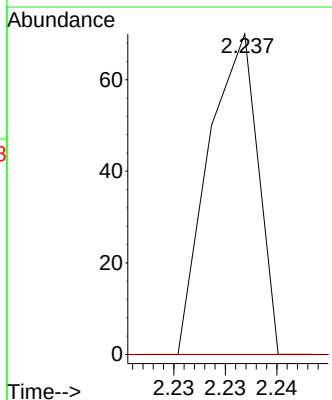
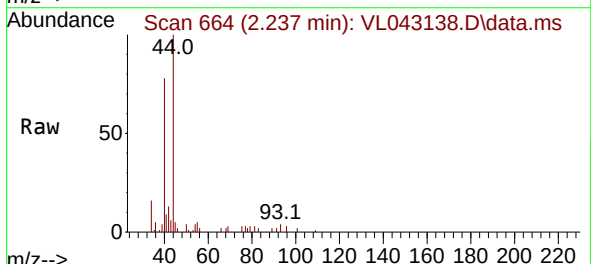
Instrument :
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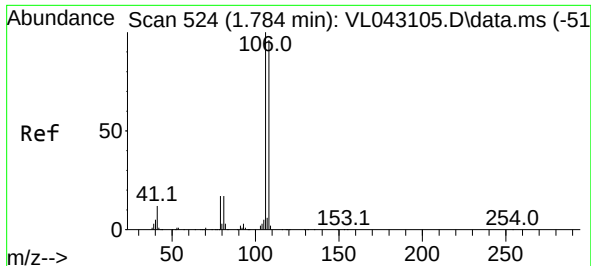
Tgt Ion:101 Resp: 23
 Ion Ratio Lower Upper
 101 100
 103 0.0 49.3 73.9#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.002 ppbv
 RT: 2.237 min Scan# 664
 Delta R.T. 0.094 min
 Lab File: VL043138.D
 Acq: 03 Nov 2025 09:17

Tgt Ion:101 Resp: 23
 Ion Ratio Lower Upper
 101 100
 151 173.9 54.7 82.1#





#14

Bromoethene

Concen: 0.005 ppbv

RT: 1.615 min Scan# 41

Delta R.T. -0.168 min

Lab File: VL043138.D

Acq: 03 Nov 2025 09:17

Instrument :

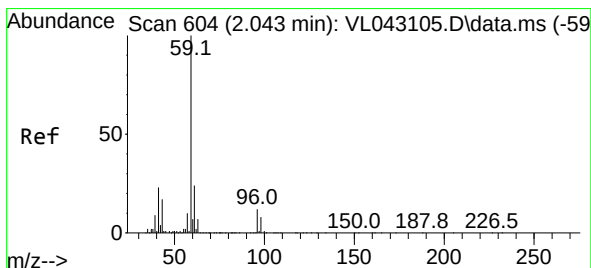
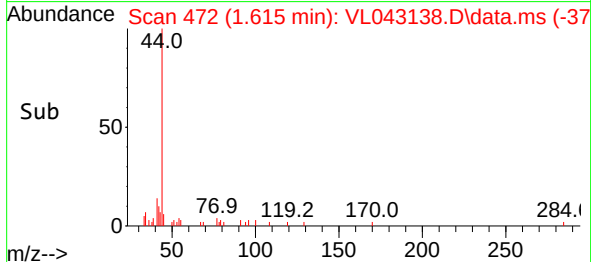
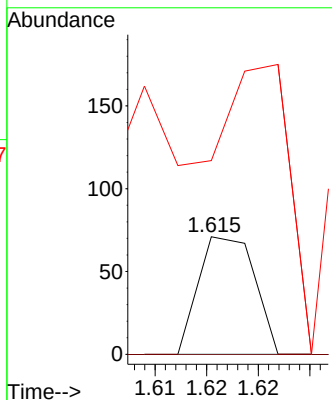
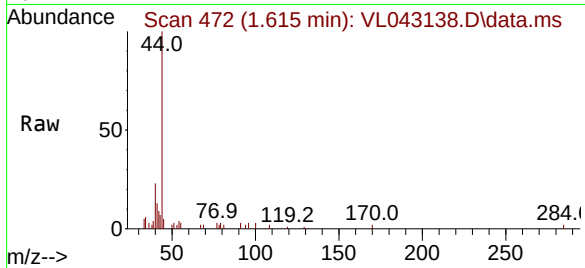
MSVOA_L

ClientSampleId :

VL1103ABL01

Tgt Ion:108 Resp: 27

Ion	Ratio	Lower	Upper
108	100		
106	0.0	84.4	126.6#
79	1118.5	15.3	22.9#



#17

tert-Butyl alcohol

Concen: 0.011 ppbv

RT: 2.046 min Scan# 605

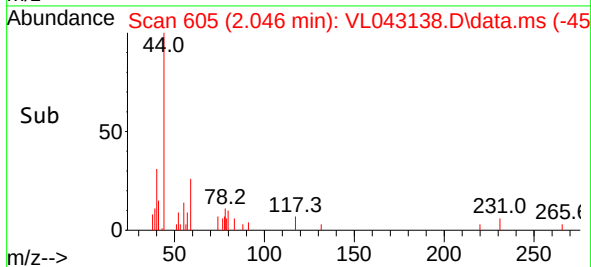
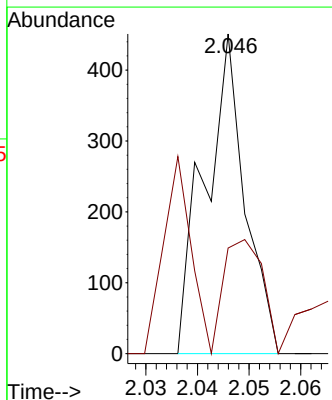
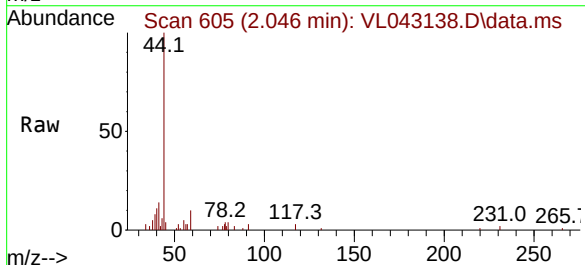
Delta R.T. 0.003 min

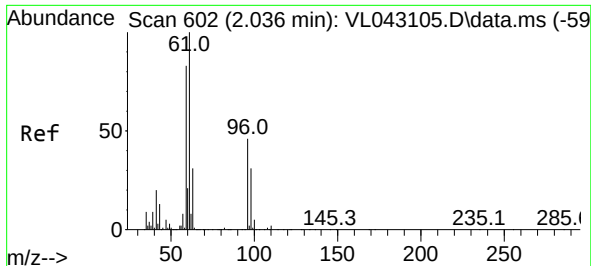
Lab File: VL043138.D

Acq: 03 Nov 2025 09:17

Tgt Ion: 59 Resp: 243

Ion	Ratio	Lower	Upper
59	100		
57	121.4	8.2	12.4#





#18

1,1-Dichloroethene

Concen: 0.002 ppbv

RT: 2.033 min Scan# 60

Delta R.T. -0.003 min

Lab File: VL043138.D

Acq: 03 Nov 2025 09:17

Instrument :

MSVOA_1

ClientSampleId :

VL1103ABL01

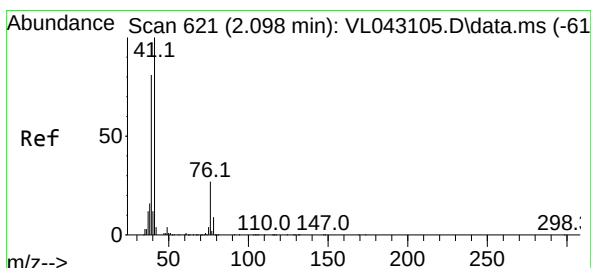
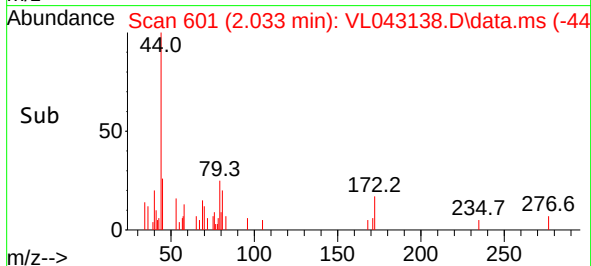
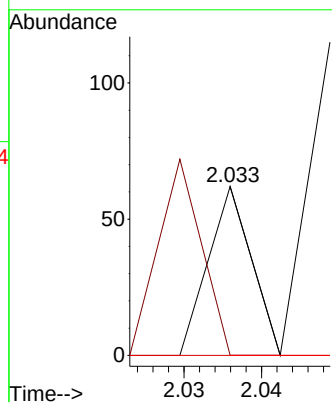
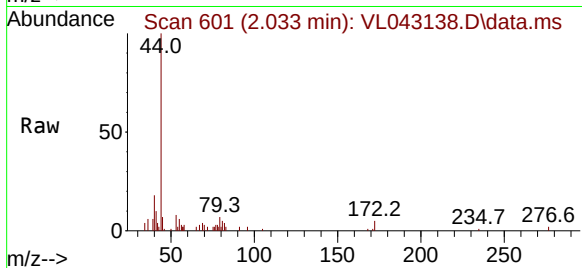
Tgt Ion: 96 Resp: 12

Ion Ratio Lower Upper

96 100

61 0.0 173.4 260.0#

98 0.0 53.2 79.8#



#21

Allyl Chloride

Concen: 0.014 ppbv

RT: 2.094 min Scan# 620

Delta R.T. -0.003 min

Lab File: VL043138.D

Acq: 03 Nov 2025 09:17

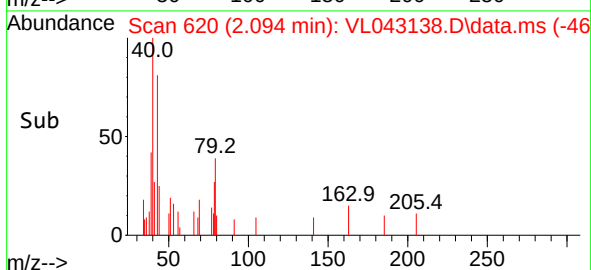
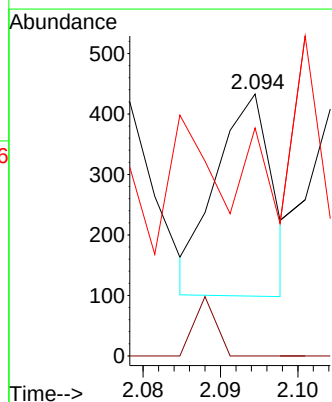
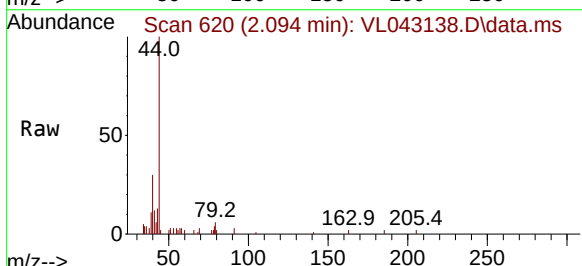
Tgt Ion: 41 Resp: 169

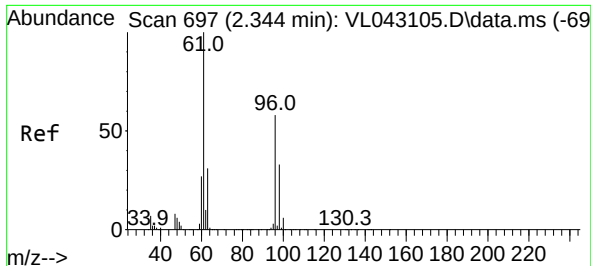
Ion Ratio Lower Upper

41 100

76 0.0 21.5 32.3#

39 0.0 60.8 91.2#

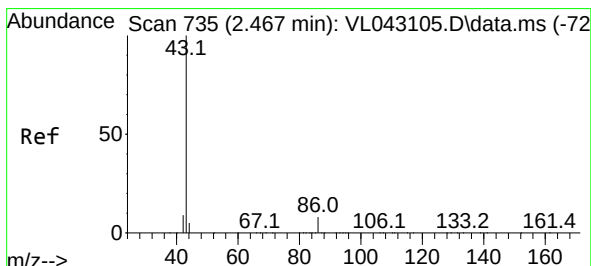
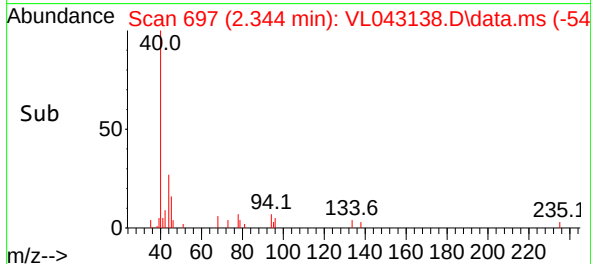
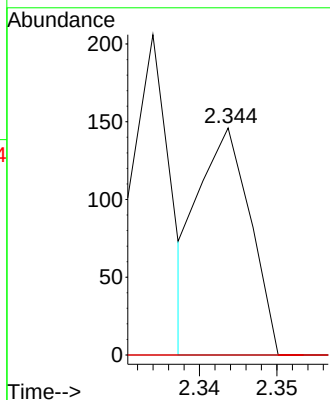
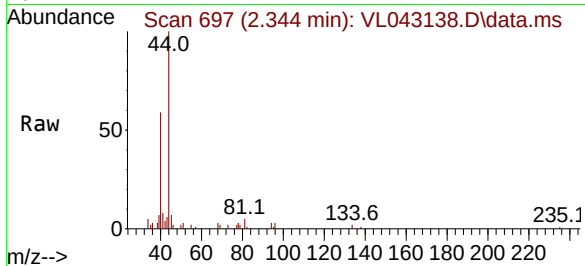




#22
trans-1,2-Dichloroethene
Concen: 0.009 ppbv
RT: 2.344 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

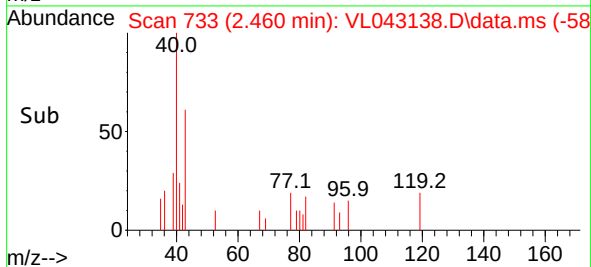
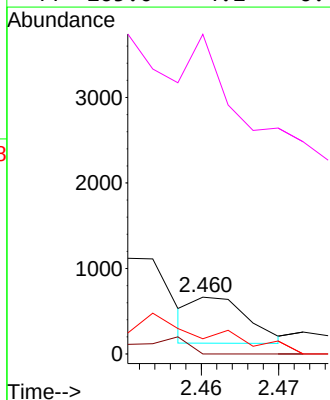
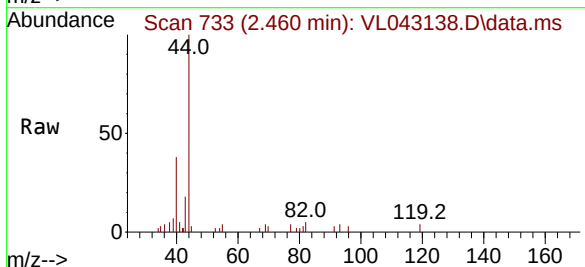
Instrument :
MSVOA_1
ClientSampleId :
VL1103ABL01

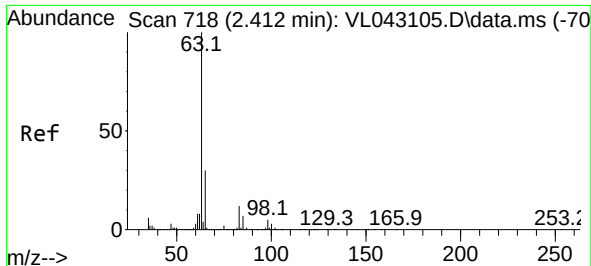
Tgt Ion: 96 Resp: 66
Ion Ratio Lower Upper
96 100
61 0.0 137.0 205.6#
98 0.0 45.5 68.3#



#23
Vinyl Acetate
Concen: 0.011 ppbv
RT: 2.460 min Scan# 733
Delta R.T. -0.007 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

Tgt Ion: 43 Resp: 267
Ion Ratio Lower Upper
43 100
86 0.0 6.2 9.2#
42 151.6 7.6 11.4#
44 265.0 4.2 6.4#

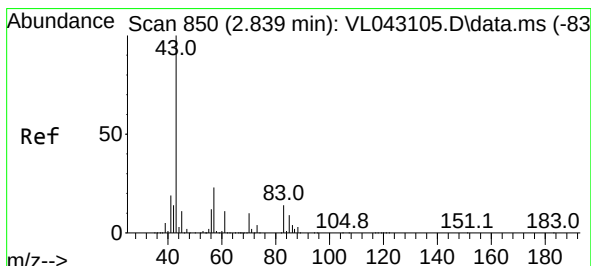
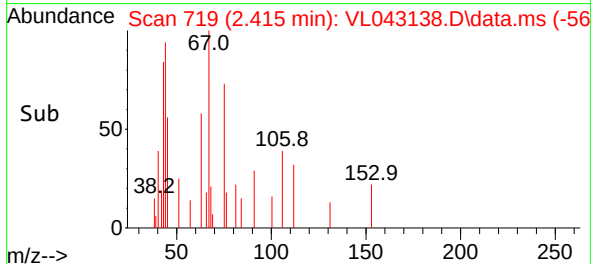
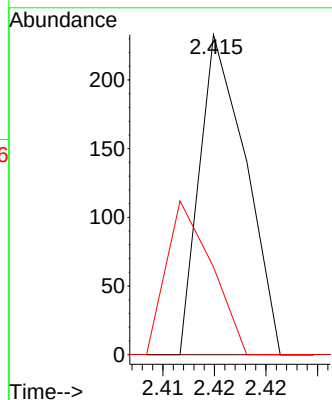
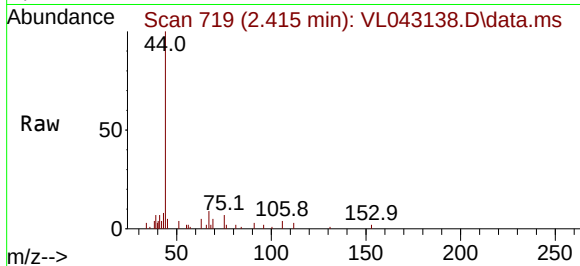




#24
1,1-Dichloroethane
Concen: 0.005 ppbv
RT: 2.415 min Scan# 718
Delta R.T. 0.003 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

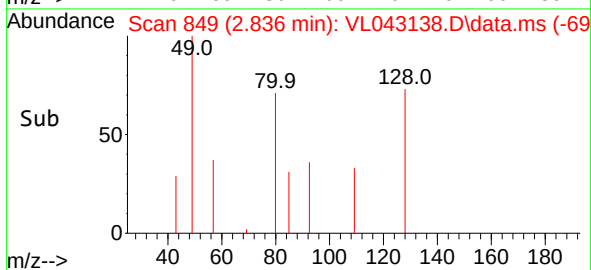
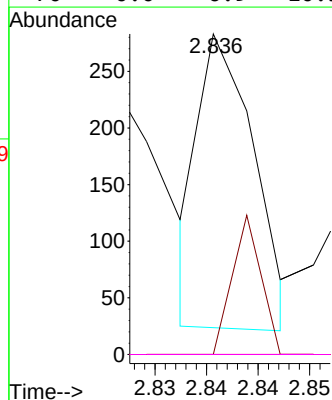
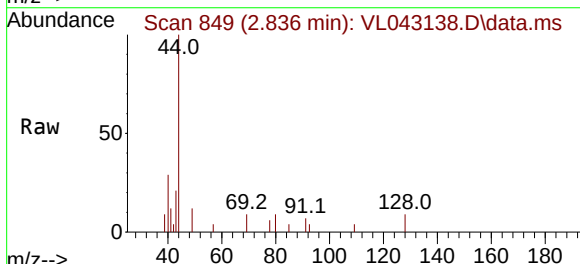
Instrument :
MSVOA_L
ClientSampleId :
VL1103ABL01

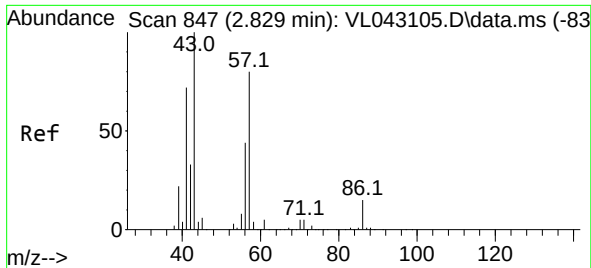
Tgt Ion: 63	Resp:	73
Ion Ratio	Lower	Upper
63	100	
98	0.0	2.6
100	27.5	1.5



#25
Ethyl Acetate
Concen: 0.002 ppbv
RT: 2.836 min Scan# 849
Delta R.T. -0.003 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

Tgt Ion: 43	Resp:	96
Ion Ratio	Lower	Upper
43	100	
45	0.0	7.8
61	0.0	7.0
70	0.0	6.9



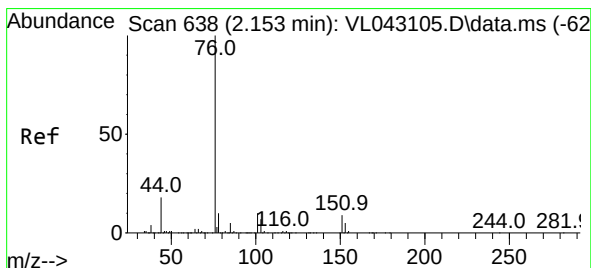
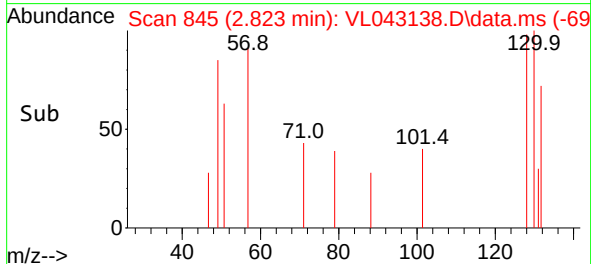
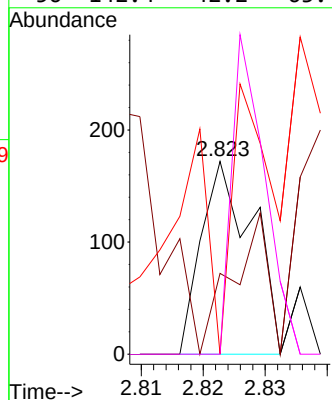
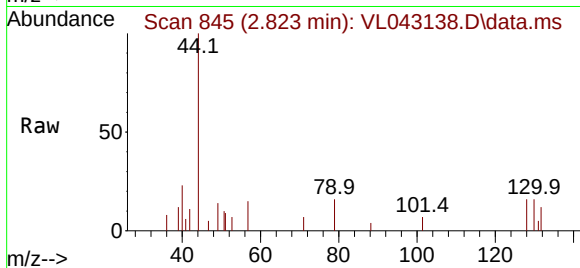


#26
Hexane
Concen: 0.005 ppbv
RT: 2.823 min Scan# 84
Delta R.T. -0.007 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

Instrument :
MSVOA_L
ClientSampleId :
VL1103ABL01

Tgt Ion: 57 Resp: 99

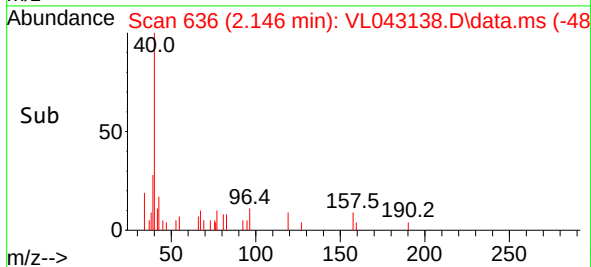
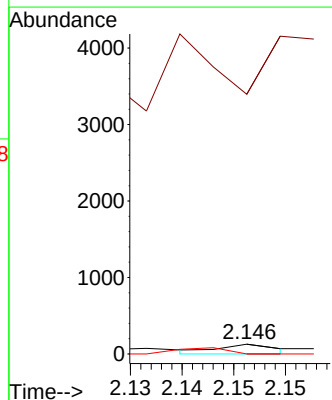
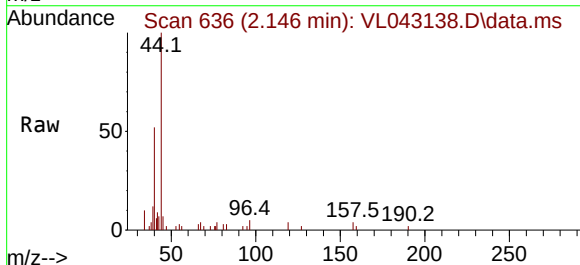
Ion	Ratio	Lower	Upper
57	100		
41	318.2	71.4	107.0#
43	369.7	178.5	267.7#
56	142.4	42.2	63.4#

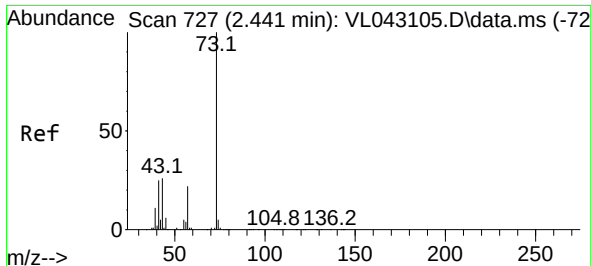


#27
Carbon Disulfide
Concen: 0.003 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.007 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

Tgt Ion: 76 Resp: 49

Ion	Ratio	Lower	Upper
76	100		
44	0.0	16.7	25.1#
78	0.0	9.3	13.9#

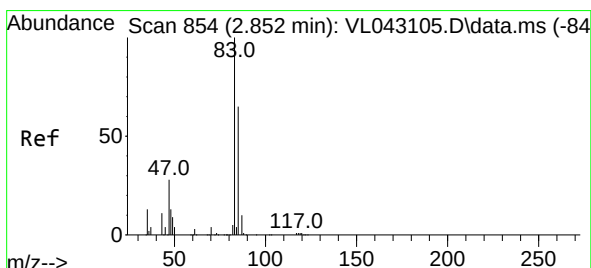
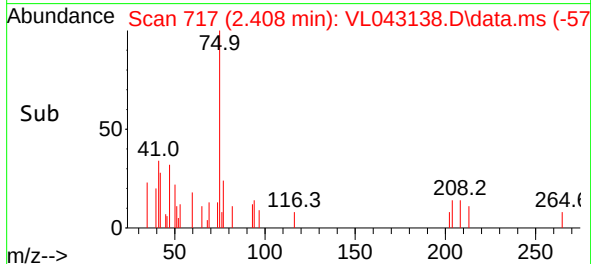
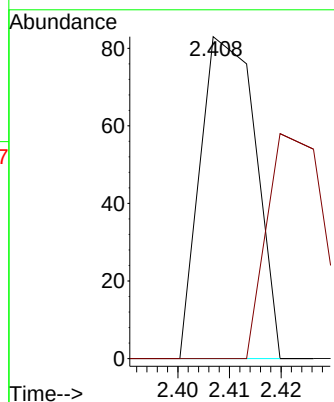
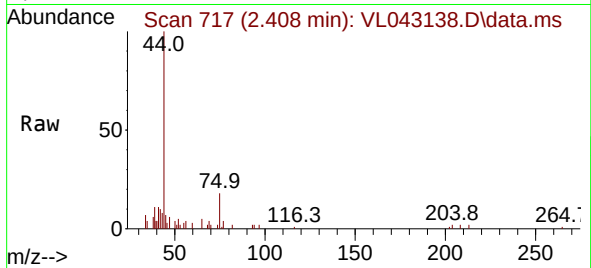




#28
Methyl tert-Butyl Ether
Concen: 0.004 ppbv
RT: 2.408 min Scan# 717
Delta R.T. -0.032 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

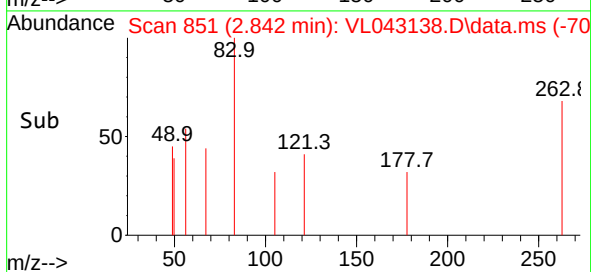
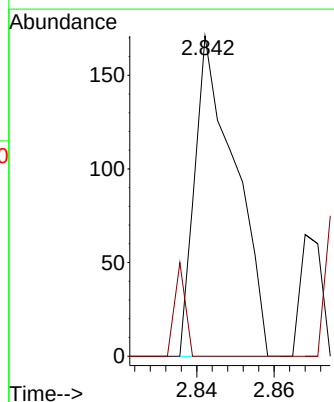
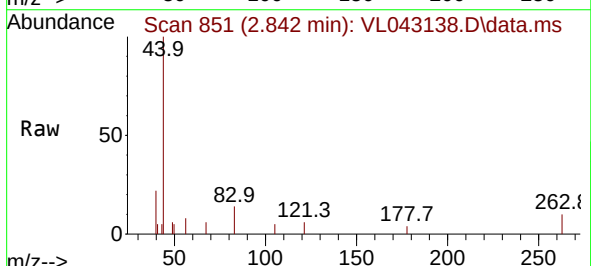
Instrument :
MSVOA_L
ClientSampleId :
VL1103ABL01

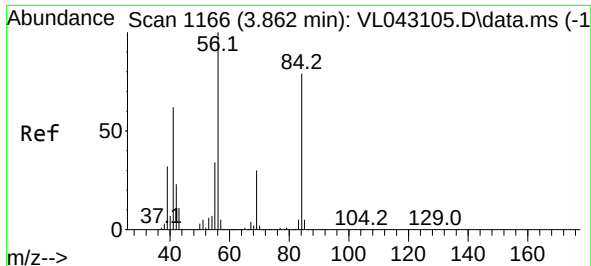
Tgt Ion: 73 Resp: 31
Ion Ratio Lower Upper
73 100
57 71.0 20.5 30.7#



#29
Chloroform
Concen: 0.004 ppbv
RT: 2.842 min Scan# 851
Delta R.T. -0.010 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

Tgt Ion: 83 Resp: 123
Ion Ratio Lower Upper
83 100
85 0.0 51.8 77.6#

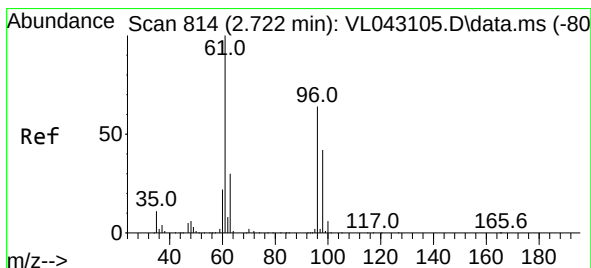
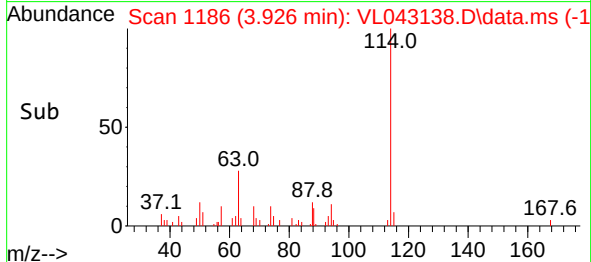
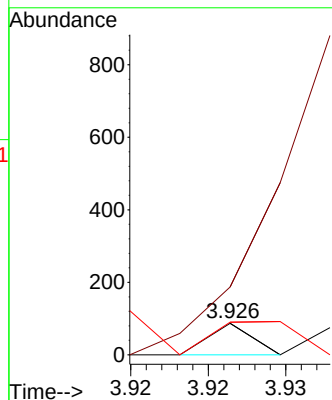
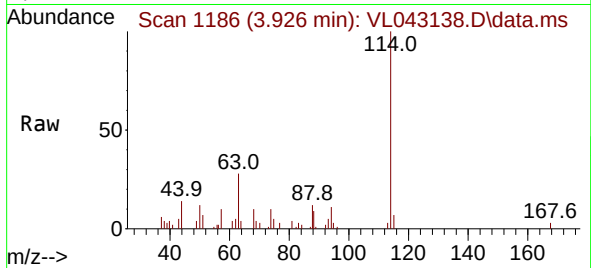




#30
Cyclohexane
Concen: 0.001 ppbv
RT: 3.926 min Scan# 1166
Delta R.T. 0.065 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

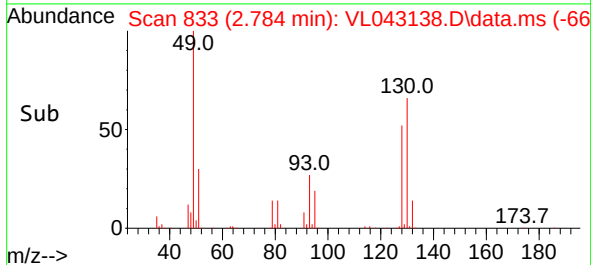
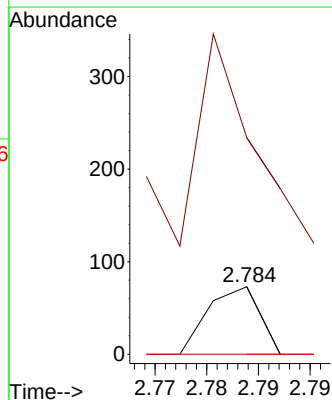
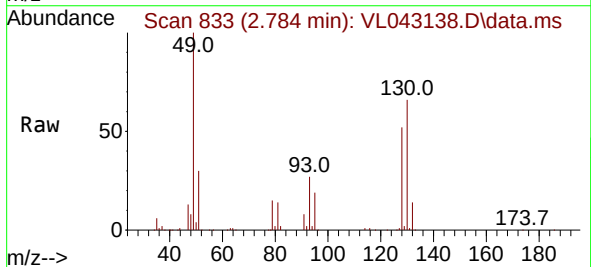
Instrument :
MSVOA_L
ClientSampleId :
VL1103ABL01

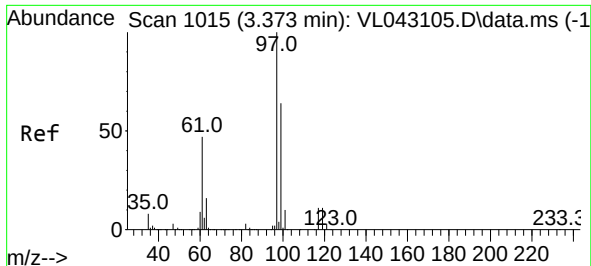
Tgt Ion: 84 Resp: 17
Ion Ratio Lower Upper
84 100
56 0.0 100.9 151.3#
41 511.8 63.8 95.6#



#31
cis-1,2-Dichloroethene
Concen: 0.001 ppbv
RT: 2.784 min Scan# 833
Delta R.T. 0.061 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

Tgt Ion: 61 Resp: 25
Ion Ratio Lower Upper
61 100
96 160.3 51.0 76.6#
98 0.0 33.5 50.3#

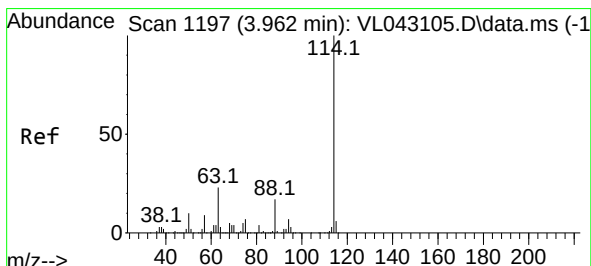
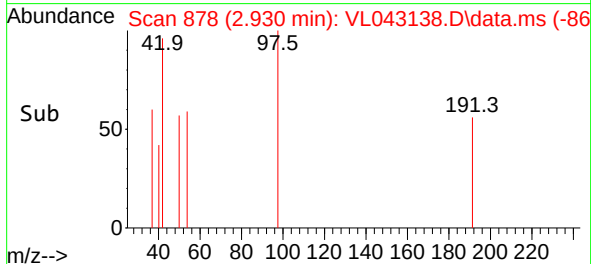
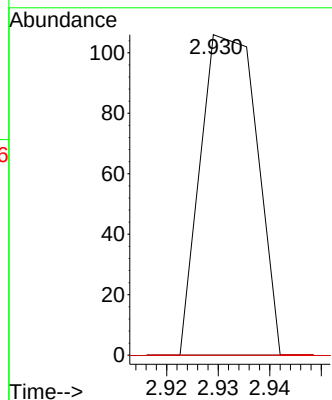
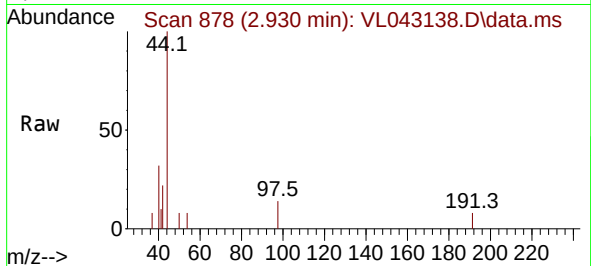




#32
 1,1,1-Trichloroethane
 Concen: 0.001 ppbv
 RT: 2.930 min Scan# 81
 Delta R.T. -0.443 min
 Lab File: VL043138.D
 Acq: 03 Nov 2025 09:17

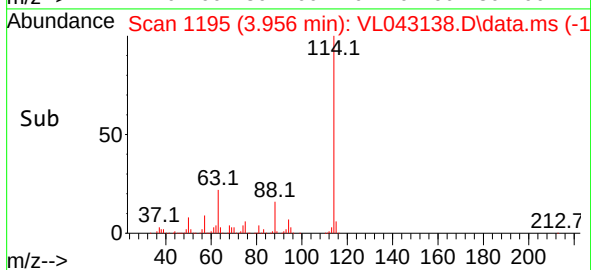
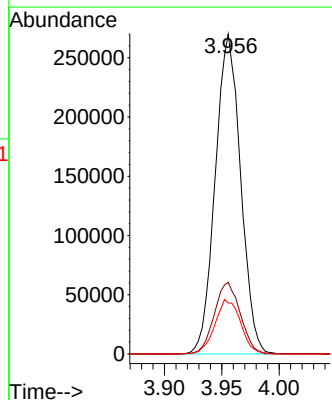
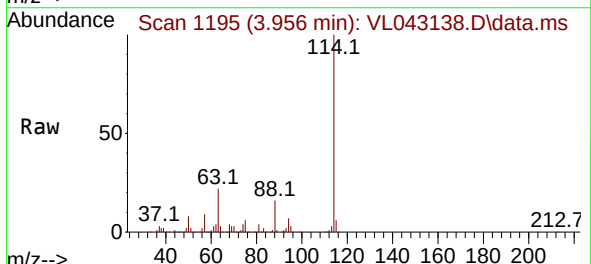
Instrument :
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 ClientSampleId :
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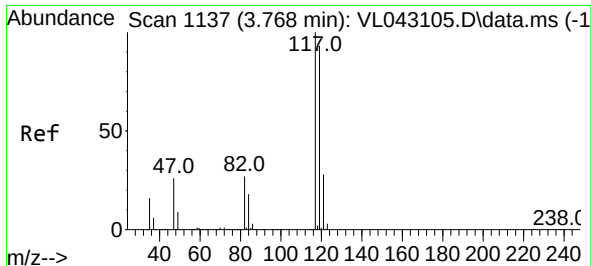
Tgt Ion: 97 Resp: 40
 Ion Ratio Lower Upper
 97 100
 99 0.0 51.3 76.9#
 61 85.0 38.4 57.6#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.956 min Scan# 1195
 Delta R.T. -0.007 min
 Lab File: VL043138.D
 Acq: 03 Nov 2025 09:17

Tgt Ion: 114 Resp: 415442
 Ion Ratio Lower Upper
 114 100
 63 22.9 19.3 28.9
 88 17.2 13.9 20.9

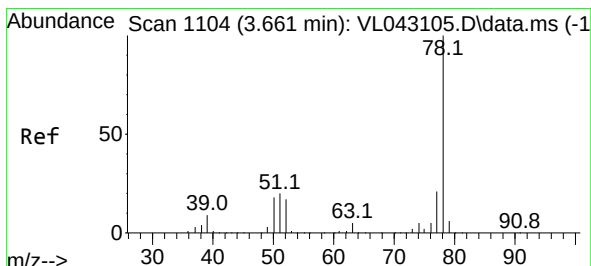
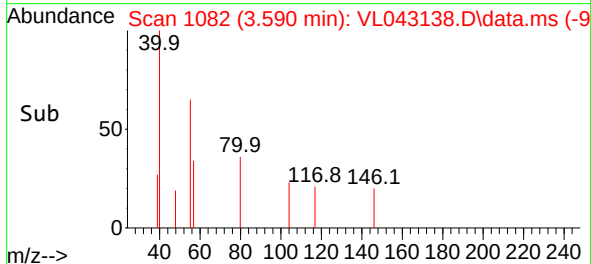
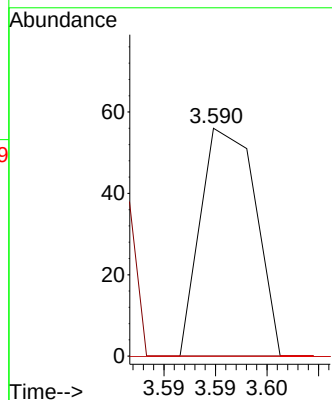
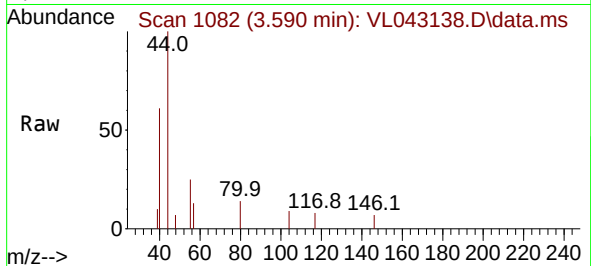




#35
Carbon Tetrachloride
Concen: 0.001 ppbv
RT: 3.590 min Scan# 1103
Delta R.T. -0.178 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

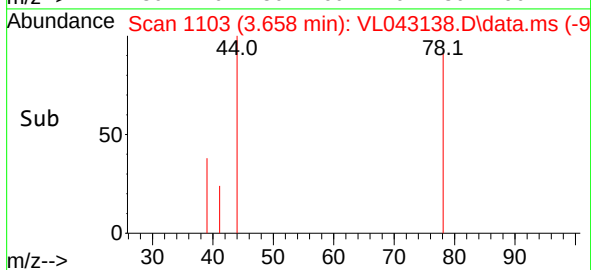
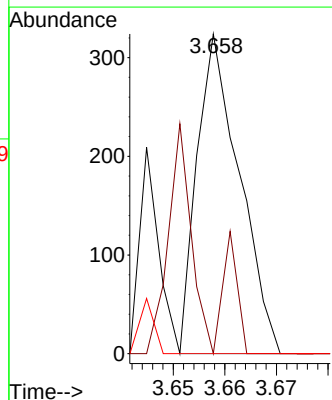
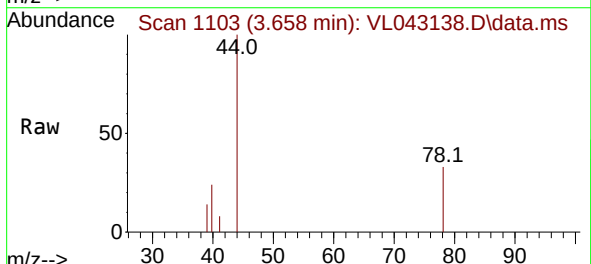
Instrument :
MSVOA_1
ClientSampleId :
VL1103ABL01

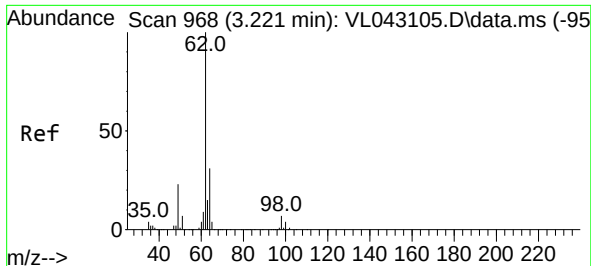
Tgt Ion:117 Resp: 21
Ion Ratio Lower Upper
117 100
119 0.0 74.1 111.1#
121 0.0 22.2 33.2#



#36
Benzene
Concen: 0.005 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. -0.003 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

Tgt Ion: 78 Resp: 185
Ion Ratio Lower Upper
78 100
77 0.0 17.0 25.6#
50 0.0 14.6 22.0#

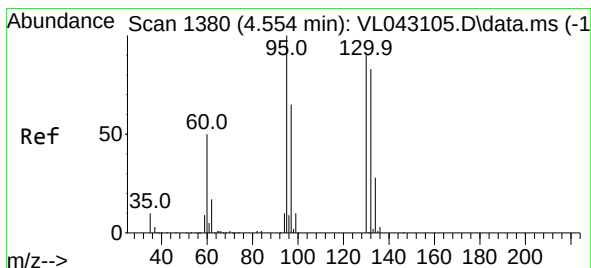
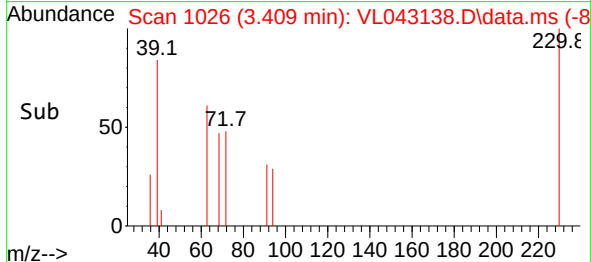
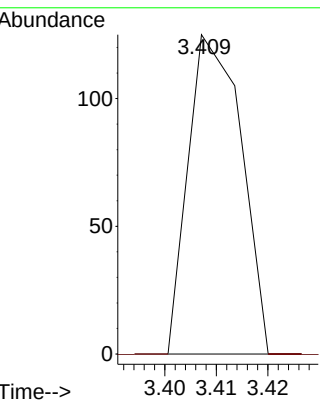
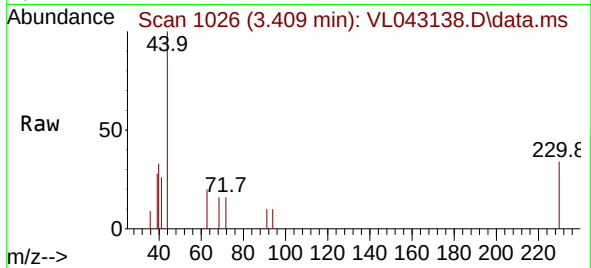




#37
1,2-Dichloroethane
Concen: 0.002 ppbv
RT: 3.409 min Scan# 1026
Delta R.T. 0.188 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

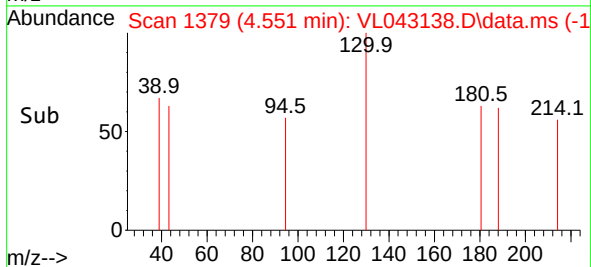
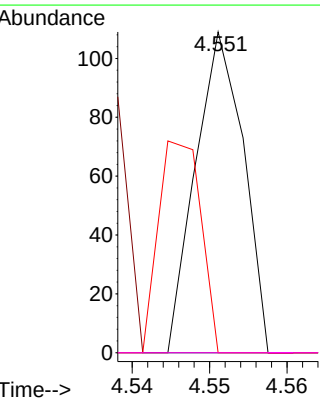
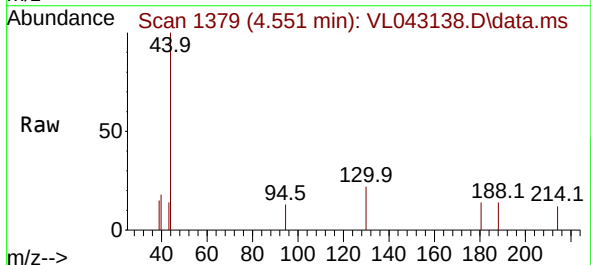
Instrument :
MSVOA_L
ClientSampleId :
VL1103ABL01

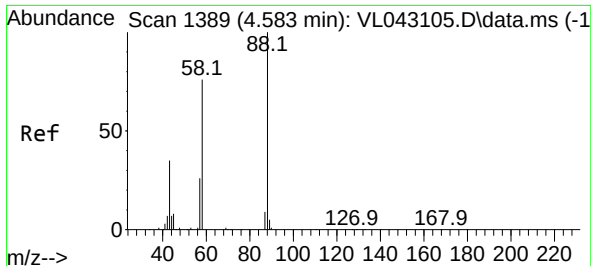
Tgt Ion: 62 Resp: 45
Ion Ratio Lower Upper
62 100
98 64.4 5.8 8.6#



#38
Trichloroethene
Concen: 0.003 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. -0.003 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

Tgt Ion: 130 Resp: 47
Ion Ratio Lower Upper
130 100
95 0.0 88.6 133.0#
132 0.0 73.4 110.0#
97 0.0 57.8 86.6#

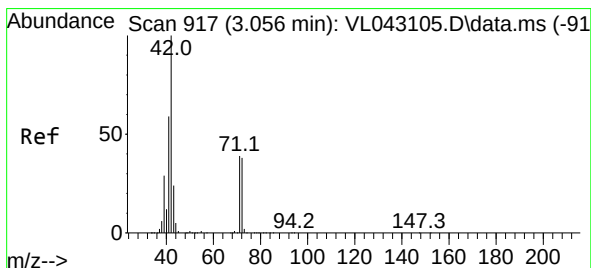
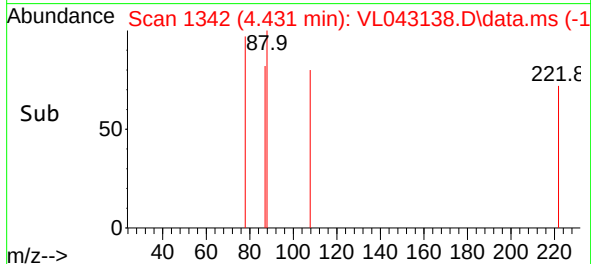
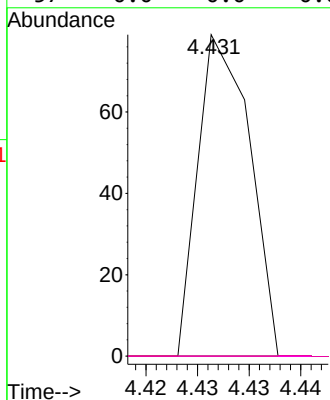
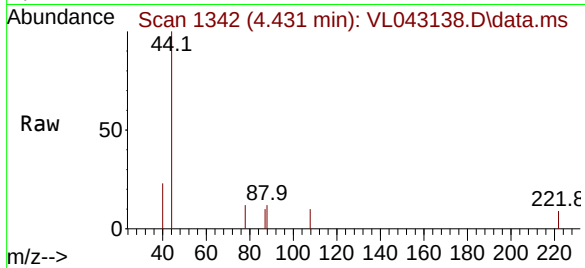




#40
1,4-Dioxane
Concen: 0.004 ppbv
RT: 4.431 min Scan# 11
Delta R.T. -0.152 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

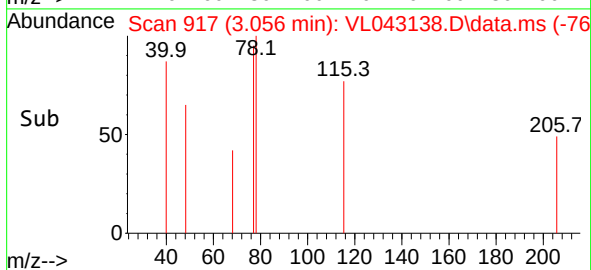
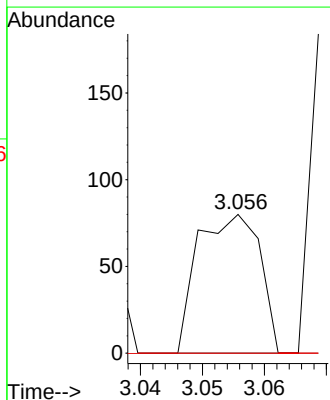
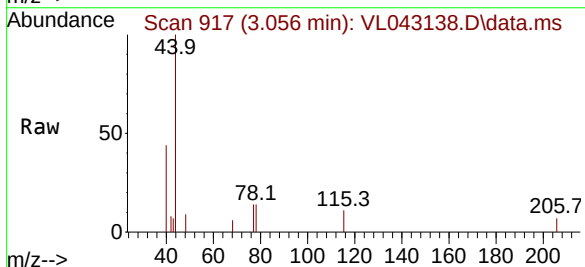
Instrument :
MSVOA_L
ClientSampleId :
VL1103ABL01

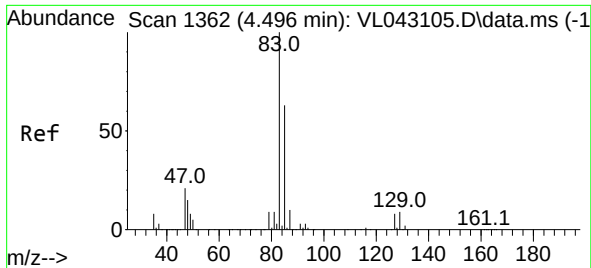
Tgt Ion: 88 Resp: 28
Ion Ratio Lower Upper
88 100
58 0.0 61.1 91.7#
43 146.4 24.0 36.0#
57 0.0 0.0 0.0



#41
Tetrahydrofuran
Concen: 0.004 ppbv
RT: 3.056 min Scan# 917
Delta R.T. -0.000 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

Tgt Ion: 42 Resp: 56
Ion Ratio Lower Upper
42 100
72 0.0 31.3 46.9#
71 0.0 30.4 45.6#

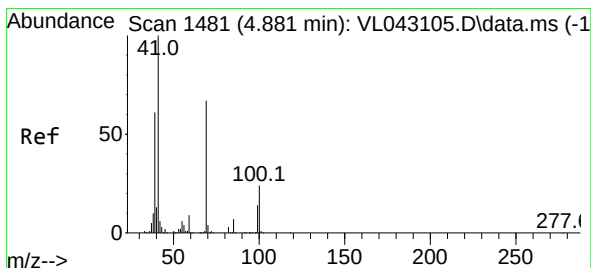
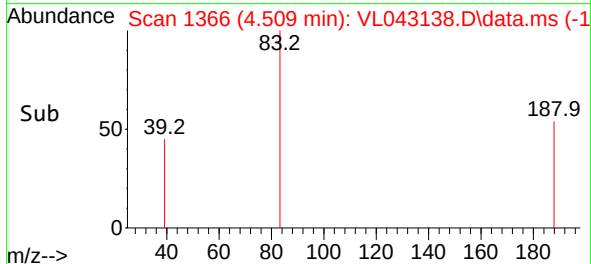
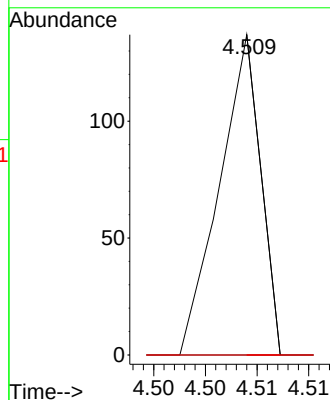
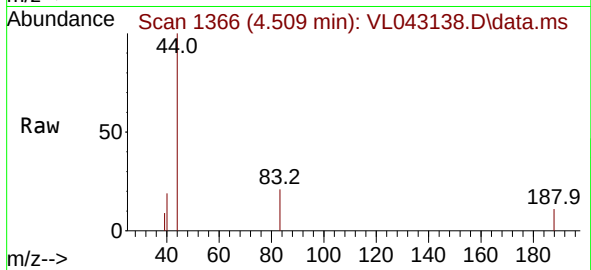




#42
Bromodichloromethane
Concen: 0.001 ppbv
RT: 4.509 min Scan# 11
Delta R.T. 0.013 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

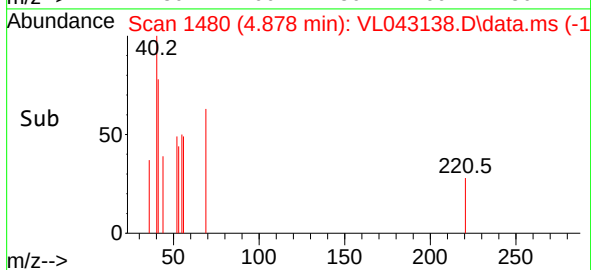
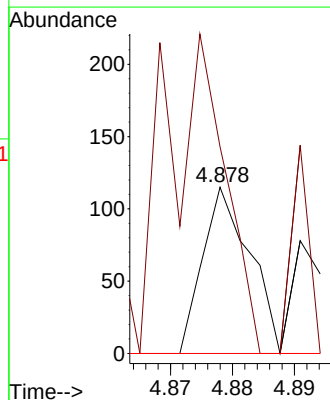
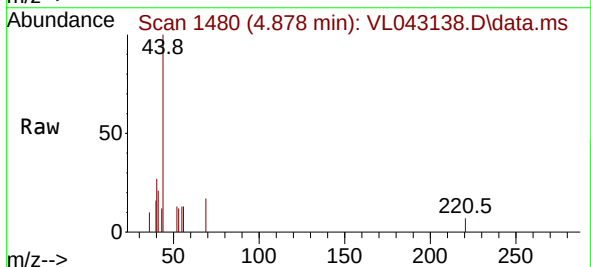
Instrument :
MSVOA_1
ClientSampleId :
VL1103ABL01

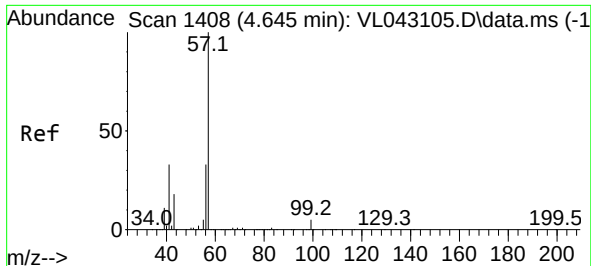
Tgt Ion: 83 Resp: 38
Ion Ratio Lower Upper
83 100
85 0.0 50.6 75.8#
127 0.0 6.3 9.5#



#43
Methyl Methacrylate
Concen: 0.003 ppbv
RT: 4.878 min Scan# 1480
Delta R.T. -0.003 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

Tgt Ion: 69 Resp: 61
Ion Ratio Lower Upper
69 100
41 495.1 120.5 180.7#
100 0.0 29.0 43.4#





#44

2,2,4-Trimethylpentane

Concen: 0.000 ppbv

RT: 4.642 min Scan# 1407

Delta R.T. -0.003 min

Lab File: VL043138.D

Acq: 03 Nov 2025 09:17

Instrument :

MSVOA_L

ClientSampleId :

VL1103ABL01

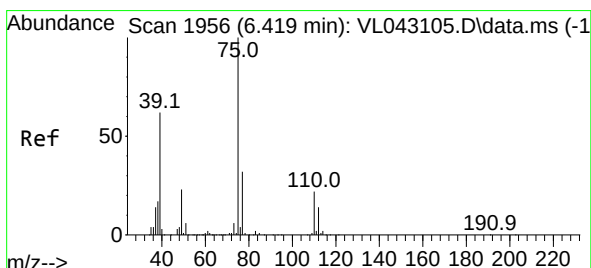
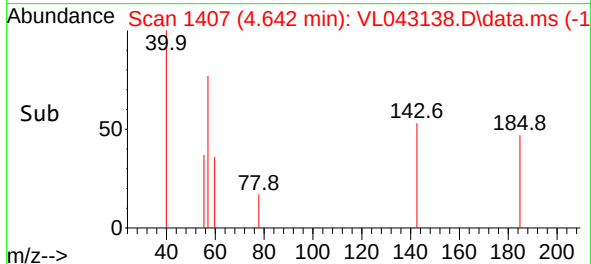
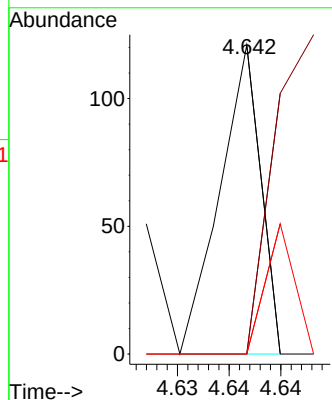
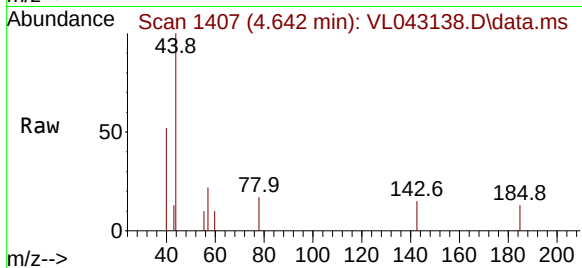
Tgt Ion: 57 Resp: 33

Ion Ratio Lower Upper

57 100

41 518.2 26.3 39.5#

56 93.9 25.9 38.9#



#45

t-1,3-Dichloropropene

Concen: 0.002 ppbv

RT: 6.409 min Scan# 1953

Delta R.T. -0.010 min

Lab File: VL043138.D

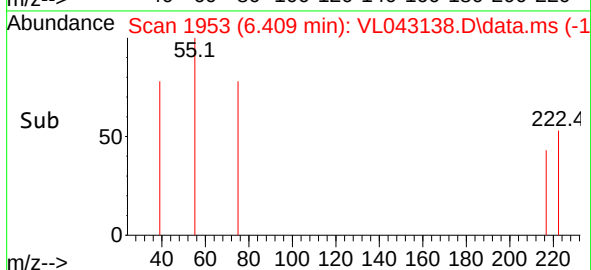
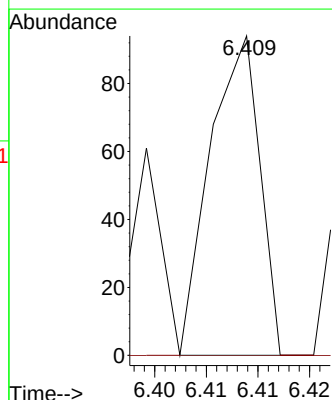
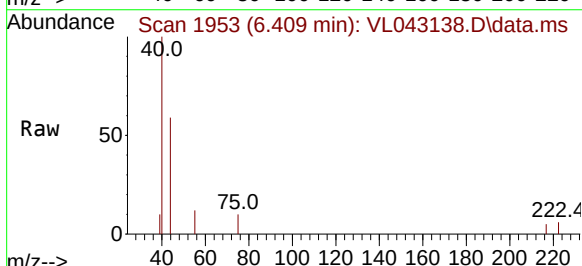
Acq: 03 Nov 2025 09:17

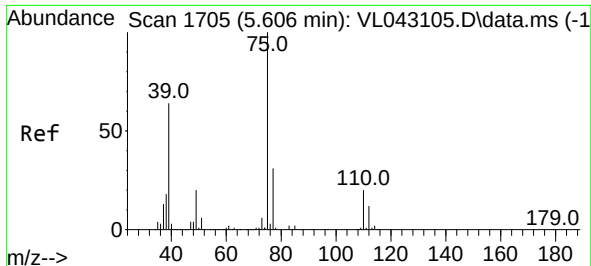
Tgt Ion: 75 Resp: 31

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#

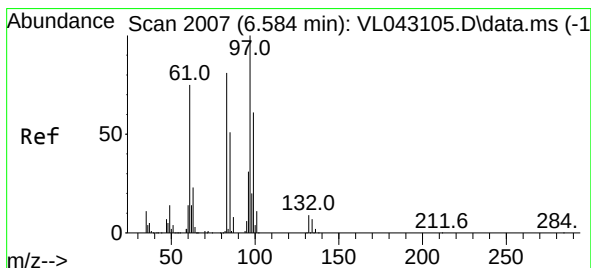
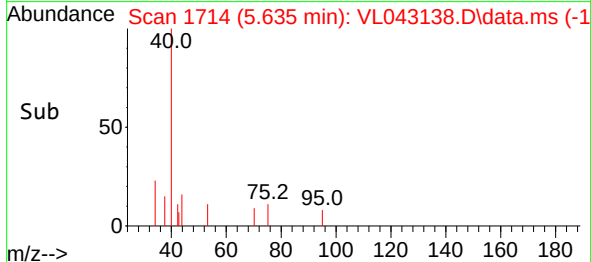
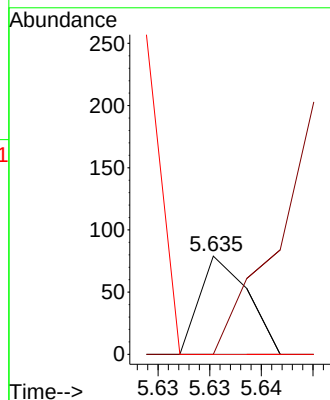
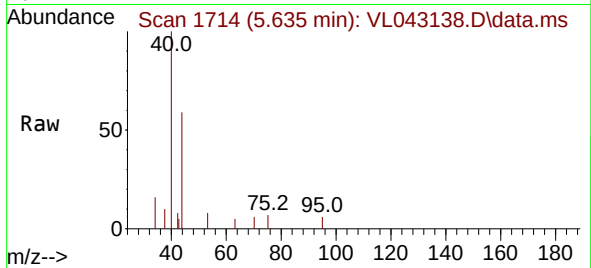




#46
 cis-1,3-Dichloropropene
 Concen: 0.001 ppbv
 RT: 5.635 min Scan# 11
 Delta R.T. 0.029 min
 Lab File: VL043138.D
 Acq: 03 Nov 2025 09:17

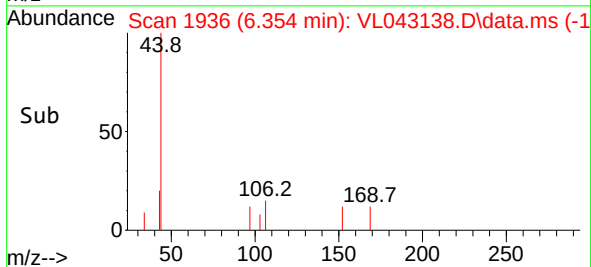
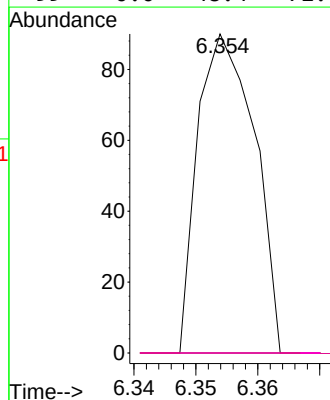
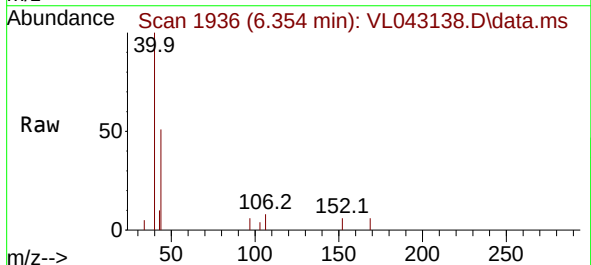
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1103ABL01

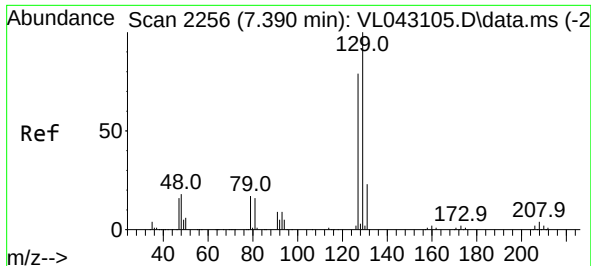
Tgt Ion:	75	Resp:	26
Ion	Ratio	Lower	Upper
75	100		
39	0.0	51.0	76.6#
77	0.0	25.0	37.4#



#47
 1,1,2-Trichloroethane
 Concen: 0.004 ppbv
 RT: 6.354 min Scan# 1936
 Delta R.T. -0.230 min
 Lab File: VL043138.D
 Acq: 03 Nov 2025 09:17

Tgt Ion:	97	Resp:	57
Ion	Ratio	Lower	Upper
97	100		
83	0.0	64.6	96.8#
85	0.0	40.6	60.8#
99	0.0	48.4	72.6#

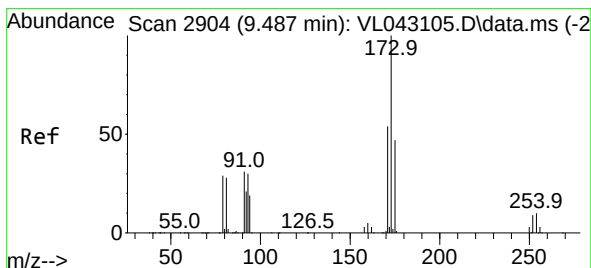
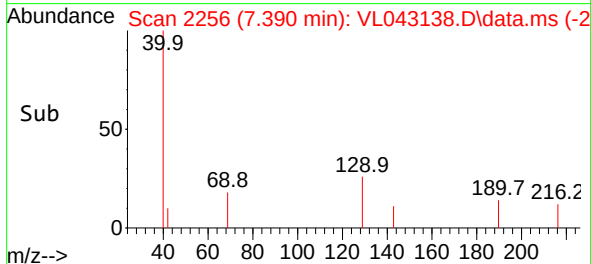
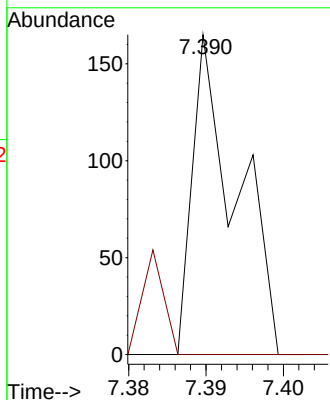
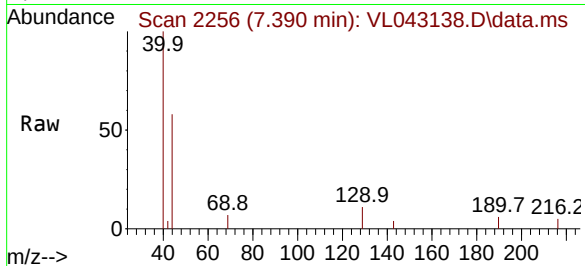




#48
Dibromochloromethane
Concen: 0.003 ppbv
RT: 7.390 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

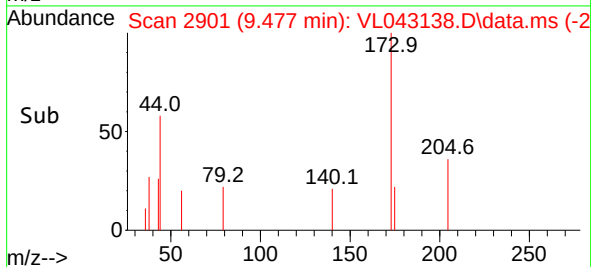
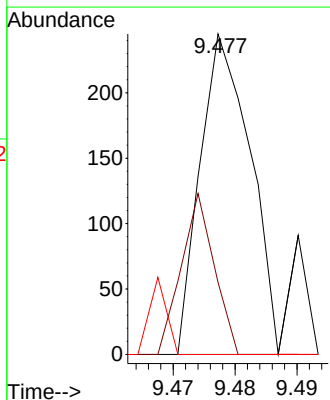
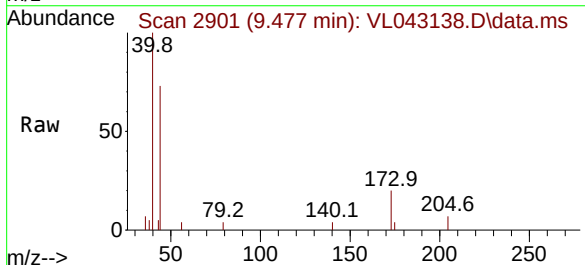
Instrument :
MSVOA_L
ClientSampleId :
VL1103ABL01

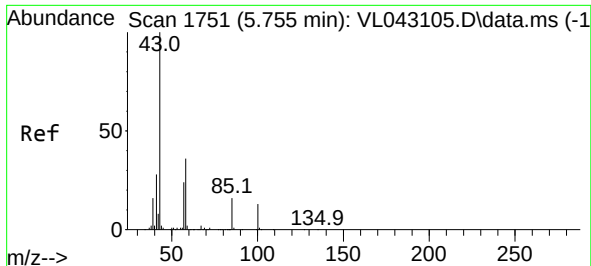
Tgt Ion:129 Resp: 65
Ion Ratio Lower Upper
129 100
127 15.4 39.3 117.9#



#49
Bromoform
Concen: 0.007 ppbv
RT: 9.477 min Scan# 2901
Delta R.T. -0.010 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

Tgt Ion:173 Resp: 137
Ion Ratio Lower Upper
173 100
175 32.8 38.8 58.2#
171 8.0 41.7 62.5#

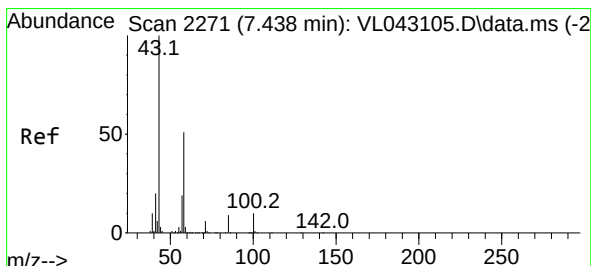
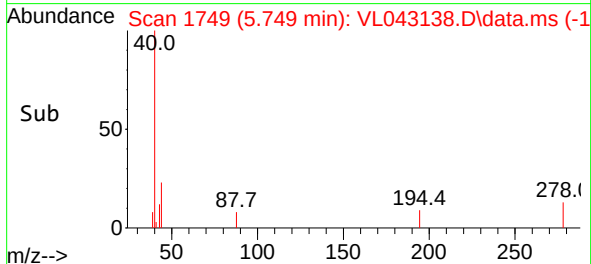
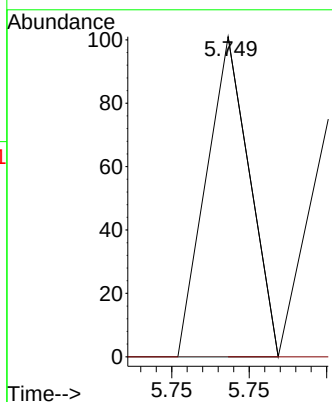
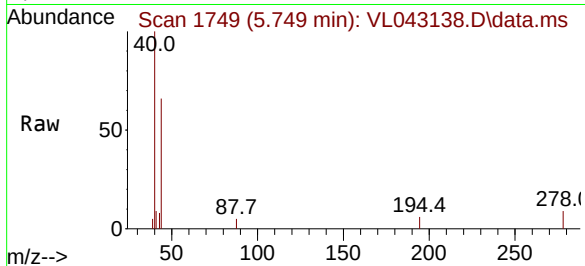




#50
4-Methyl-2-Pentanone
Concen: 0.001 ppbv
RT: 5.749 min Scan# 11
Delta R.T. -0.007 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

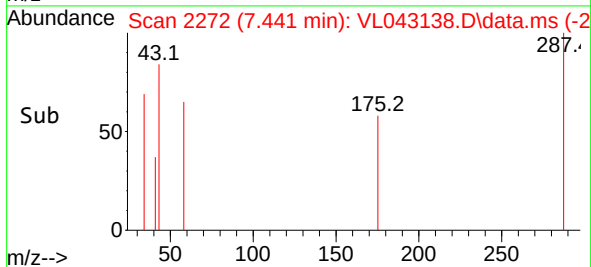
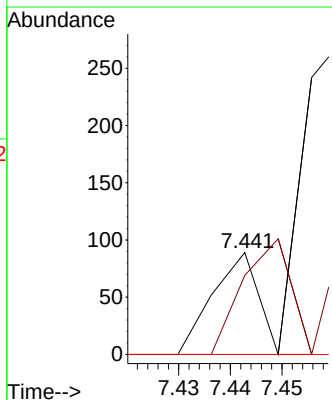
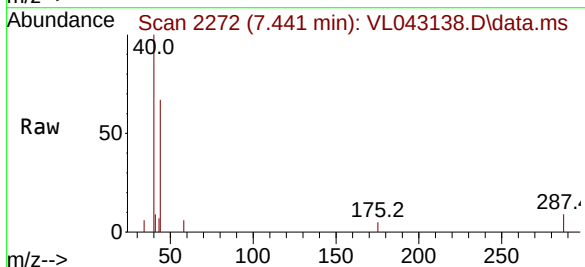
Instrument :
MSVOA_L
ClientSampleId :
VL1103ABL01

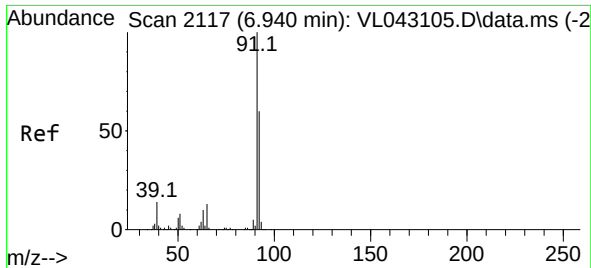
Tgt Ion: 43 Resp: 20
Ion Ratio Lower Upper
43 100
58 0.0 29.1 43.7#



#51
2-Hexanone
Concen: 0.001 ppbv
RT: 7.441 min Scan# 2272
Delta R.T. 0.003 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

Tgt Ion: 43 Resp: 27
Ion Ratio Lower Upper
43 100
58 174.1 40.4 60.6#
98 0.0 0.1 0.1#

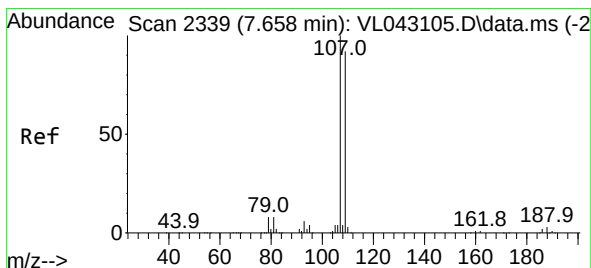
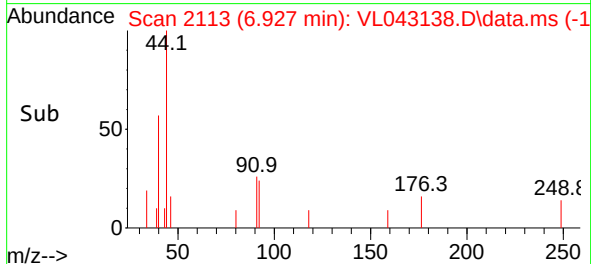
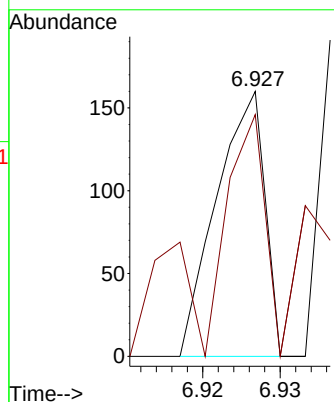
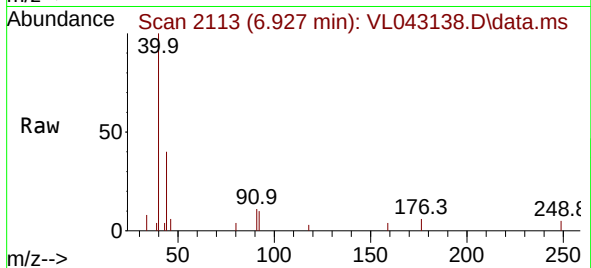




#53
Toluene
Concen: 0.001 ppbv
RT: 6.927 min Scan# 2117
Delta R.T. -0.013 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

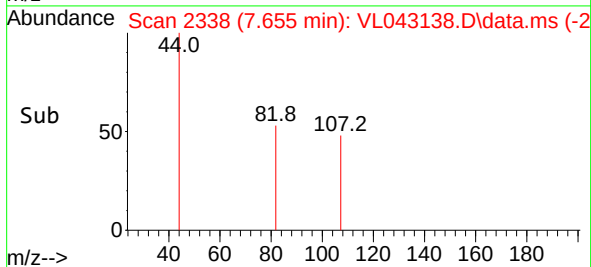
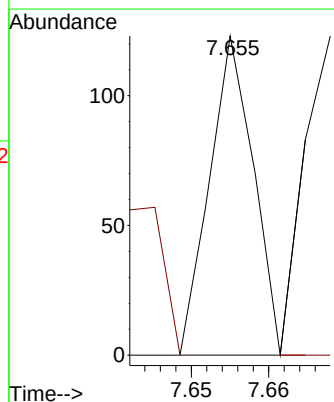
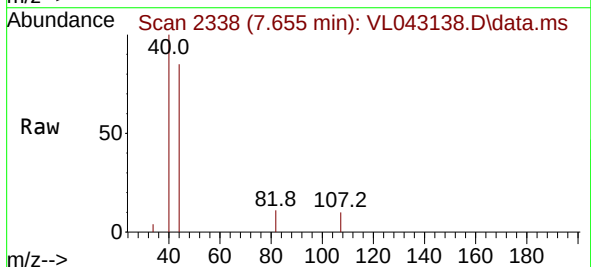
Instrument :
MSVOA_L
ClientSampleId :
VL1103ABL01

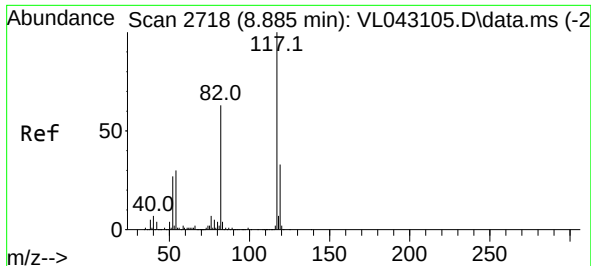
Tgt Ion: 91 Resp: 69
Ion Ratio Lower Upper
91 100
92 152.2 48.8 73.2#



#54
1,2-Dibromoethane
Concen: 0.002 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. -0.003 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

Tgt Ion: 107 Resp: 48
Ion Ratio Lower Upper
107 100
109 0.0 73.4 110.2#

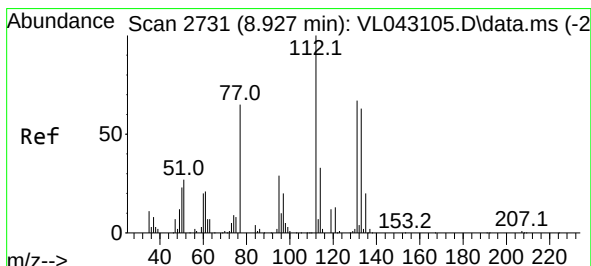
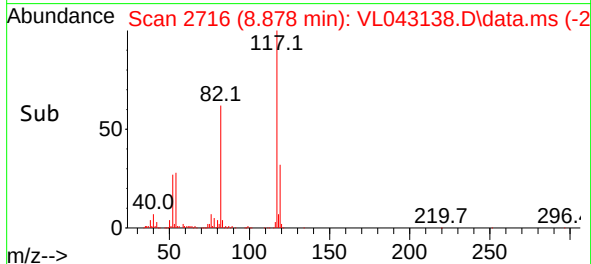
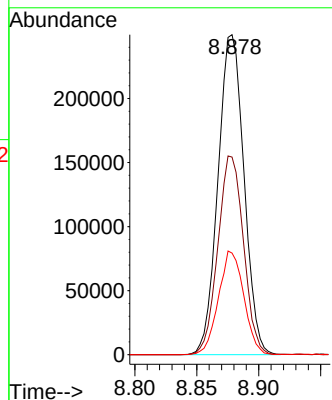
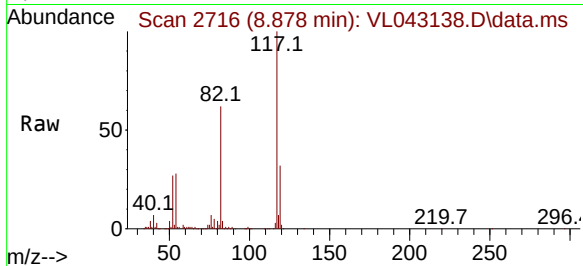




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

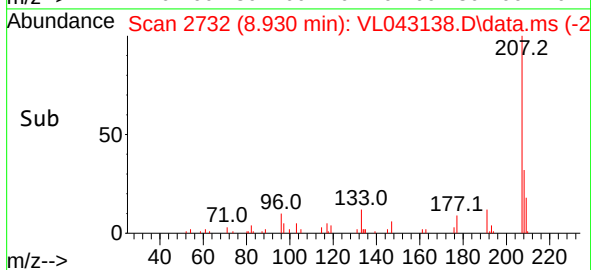
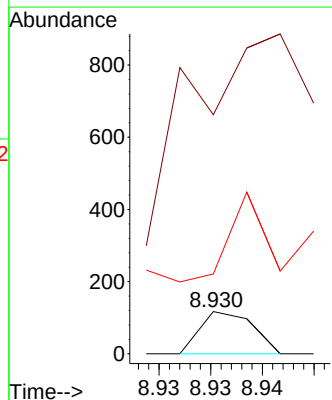
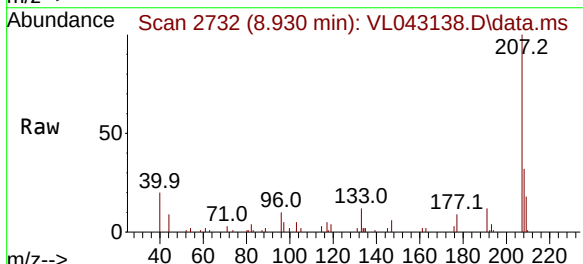
Instrument :
MSVOA_1
ClientSampleId :
VL1103ABL01

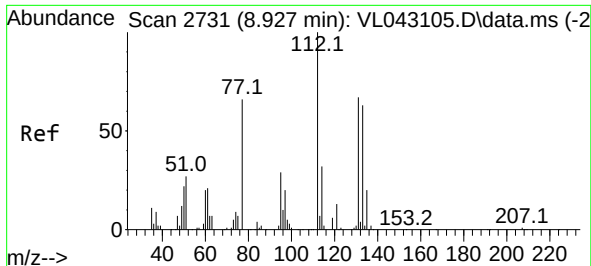
Tgt Ion:117 Resp: 365428
Ion Ratio Lower Upper
117 100
82 61.3 53.8 80.8
119 31.6 25.4 38.0



#56
1,1,1,2-Tetrachloroethane
Concen: 0.002 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.003 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

Tgt Ion:131 Resp: 42
Ion Ratio Lower Upper
131 100
133 3109.5 75.7 113.5#
119 275042.9 50.6 76.0#





#57

Chlorobenzene

Concen: 0.006 ppbv

RT: 8.914 min Scan# 21

Delta R.T. -0.013 min

Lab File: VL043138.D

Acq: 03 Nov 2025 09:17

Instrument :

MSVOA_L

ClientSampleId :

VL1103ABL01

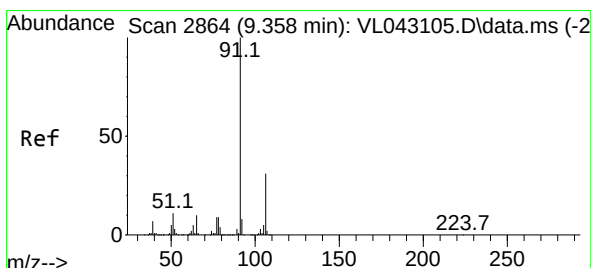
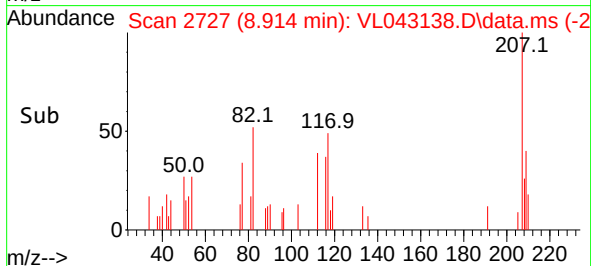
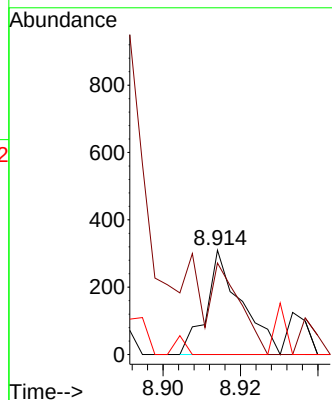
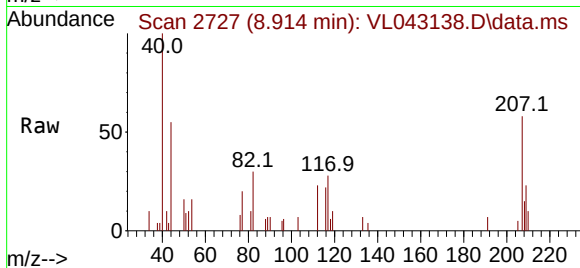
Tgt Ion:112 Resp: 193

Ion Ratio Lower Upper

112 100

77 87.7 53.3 79.9#

114 0.0 29.3 35.8#



#58

Ethyl Benzene

Concen: 0.002 ppbv

RT: 9.351 min Scan# 2862

Delta R.T. -0.007 min

Lab File: VL043138.D

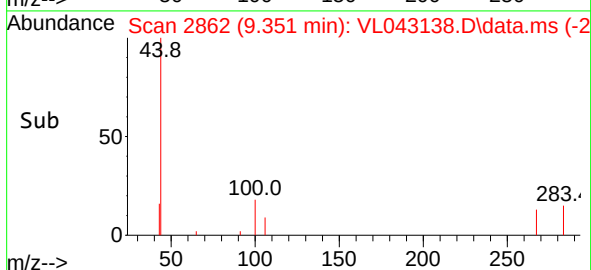
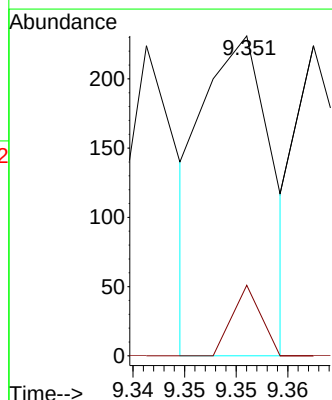
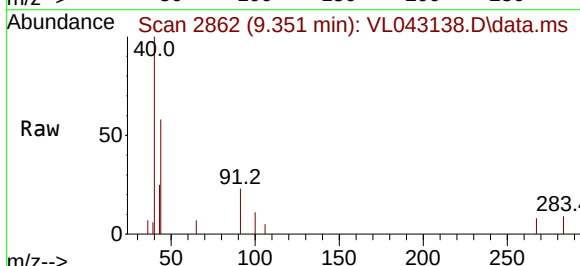
Acq: 03 Nov 2025 09:17

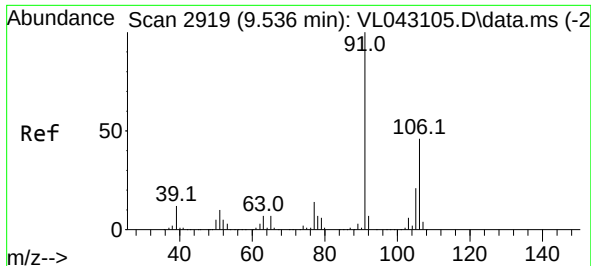
Tgt Ion: 91 Resp: 106

Ion Ratio Lower Upper

91 100

106 44.7 24.8 37.2#





#59

m/p-Xylene

Concen: 0.004 ppbv

RT: 9.542 min Scan# 2919

Delta R.T. 0.006 min

Lab File: VL043138.D

Acq: 03 Nov 2025 09:17

Instrument :

MSVOA_1

ClientSampleId :

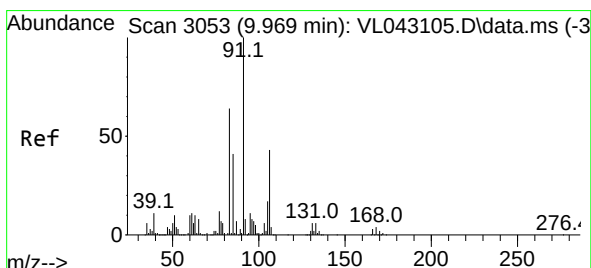
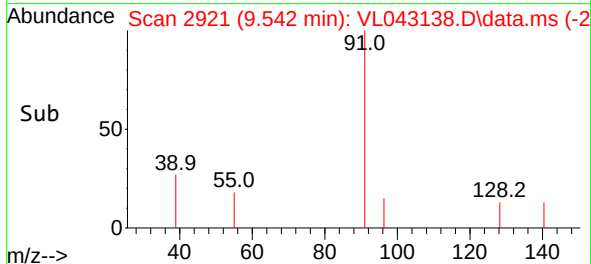
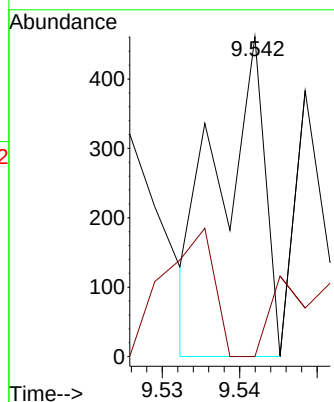
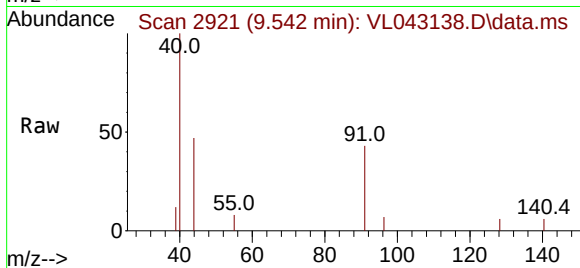
VL1103ABL01

Tgt Ion: 91 Resp: 190

Ion Ratio Lower Upper

91 100

106 117.4 38.0 57.0#



#60

o-Xylene

Concen: 0.004 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.007 min

Lab File: VL043138.D

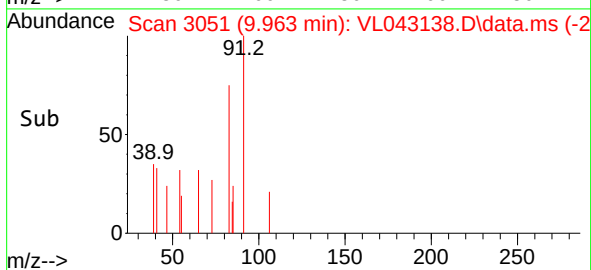
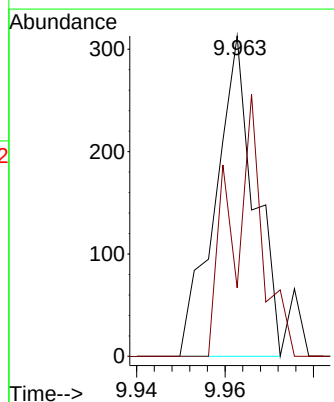
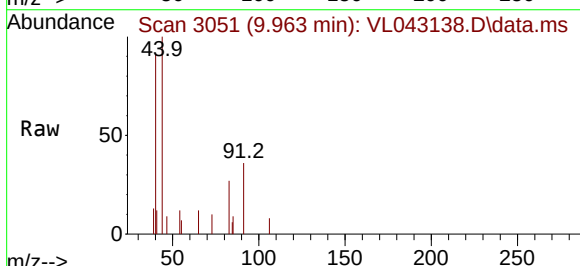
Acq: 03 Nov 2025 09:17

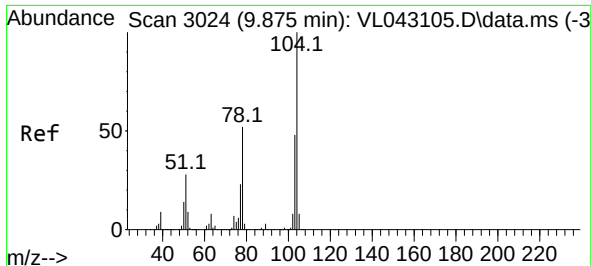
Tgt Ion: 91 Resp: 193

Ion Ratio Lower Upper

91 100

106 63.2 21.9 65.8

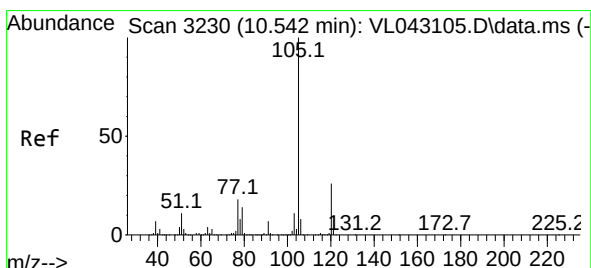
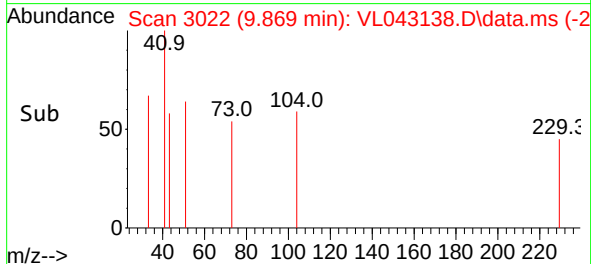
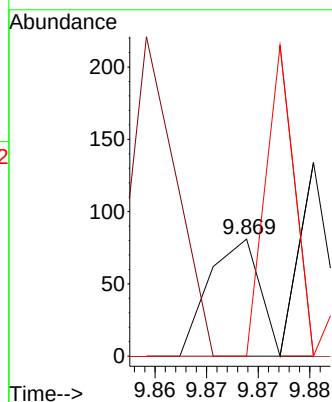
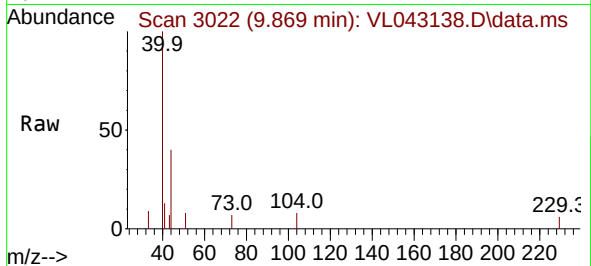




#61
Styrene
Concen: 0.001 ppbv
RT: 9.869 min Scan# 3024
Delta R.T. -0.007 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

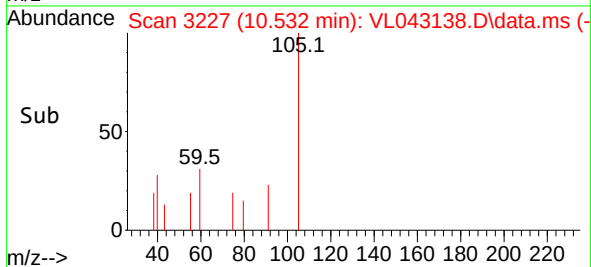
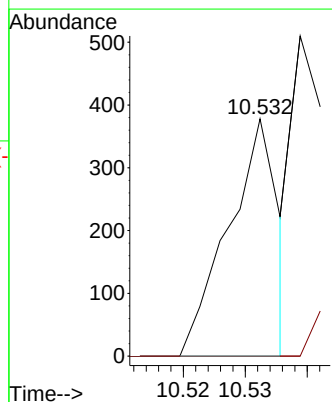
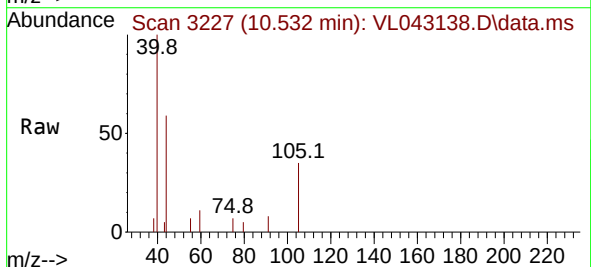
Instrument :
MSVOA_1
ClientSampleId :
VL1103ABL01

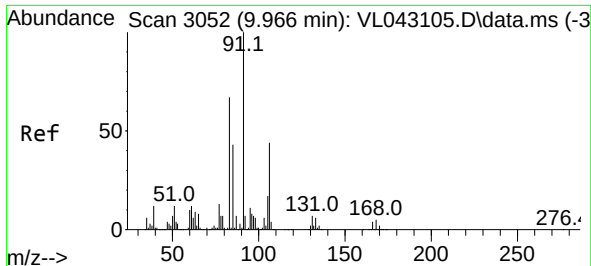
Tgt Ion:104 Resp: 28
Ion Ratio Lower Upper
104 100
78 232.1 40.2 60.2#
103 0.0 36.9 55.3#



#62
Isopropylbenzene
Concen: 0.002 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. -0.010 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

Tgt Ion:105 Resp: 213
Ion Ratio Lower Upper
105 100
120 0.0 20.2 30.4#





#63

1,1,2,2-Tetrachloroethane

Concen: 0.003 ppbv

RT: 9.963 min Scan# 3052

Delta R.T. -0.003 min

Lab File: VL043138.D

Acq: 03 Nov 2025 09:17

Instrument :

MSVOA_1

ClientSampleId :

VL1103ABL01

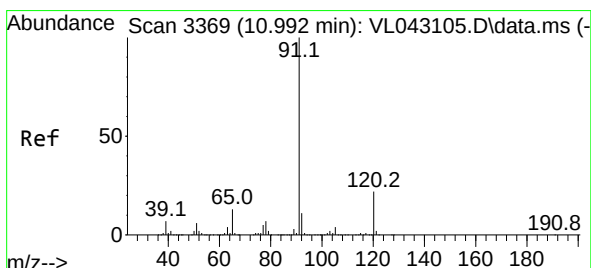
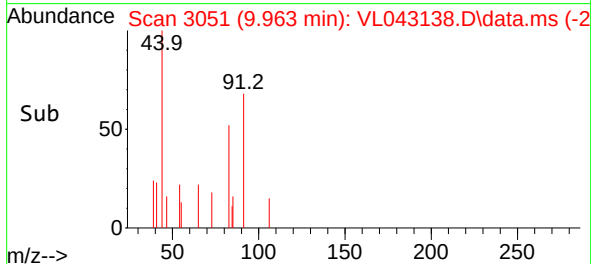
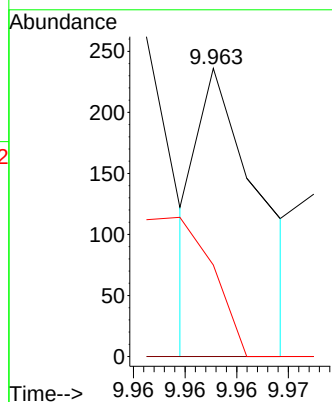
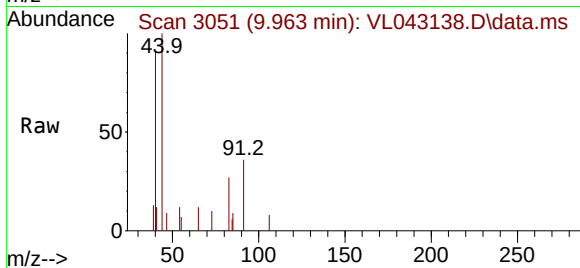
Tgt Ion: 83 Resp: 96

Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.3#

85 103.1 32.0 96.0#



#64

n-propylbenzene

Concen: 0.002 ppbv

RT: 11.118 min Scan# 3408

Delta R.T. 0.126 min

Lab File: VL043138.D

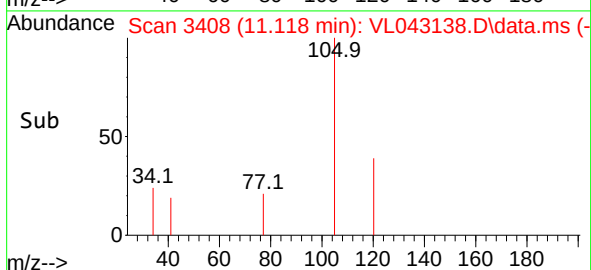
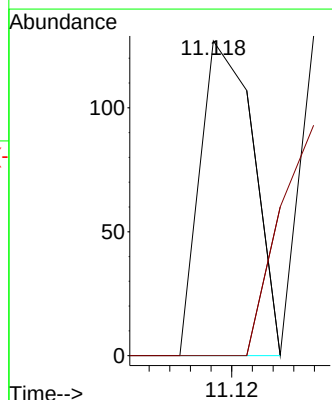
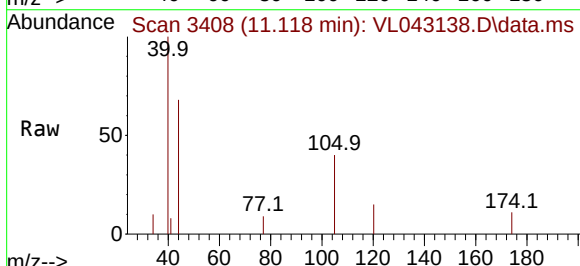
Acq: 03 Nov 2025 09:17

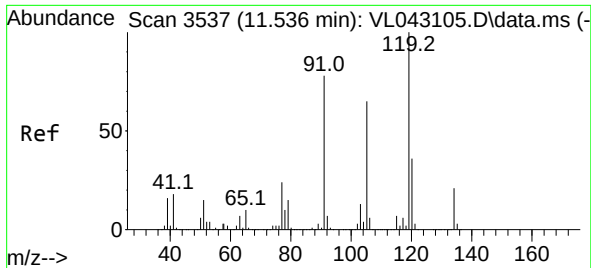
Tgt Ion: 120 Resp: 45

Ion Ratio Lower Upper

120 100

91 1240.0 361.6 542.4#

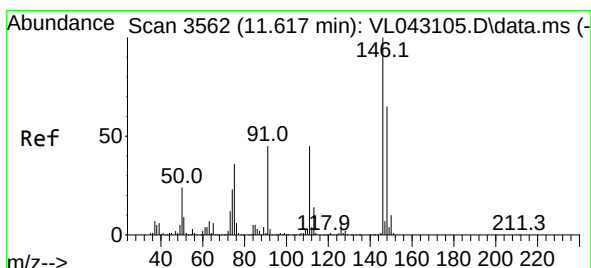
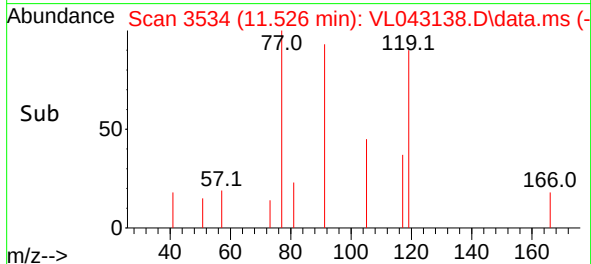
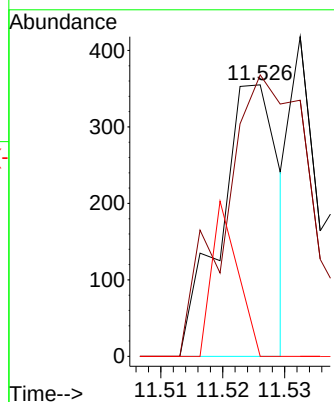
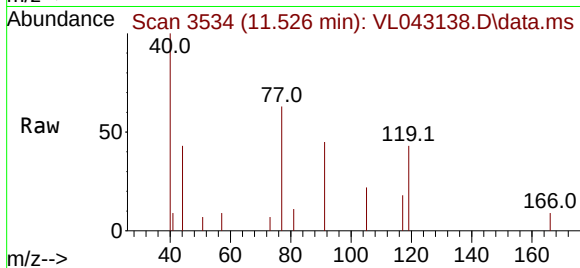




#65
tert-Butylbenzene
Concen: 0.003 ppbv
RT: 11.526 min Scan# 3537
Delta R.T. -0.010 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

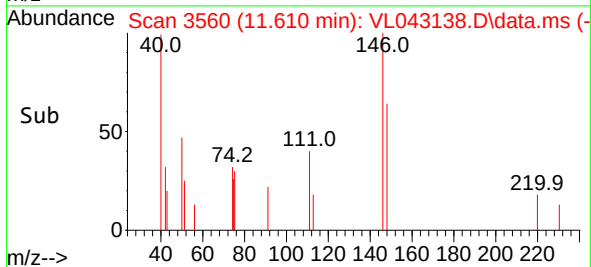
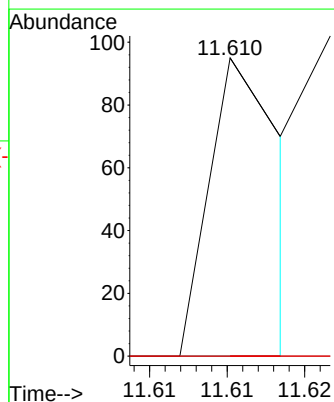
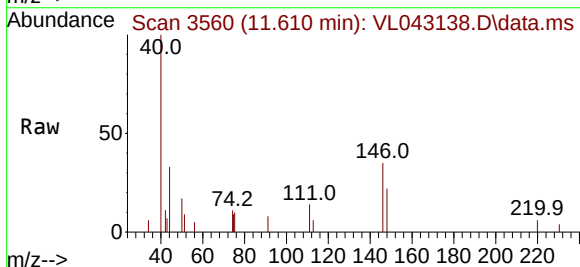
Instrument :
MSVOA_L
ClientSampleId :
VL1103ABL01

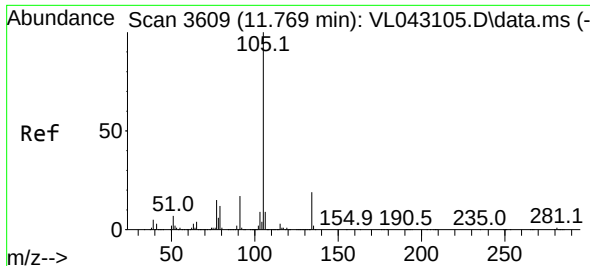
Tgt Ion:119 Resp: 235
Ion Ratio Lower Upper
119 100
91 168.1 63.4 95.0#
134 25.1 17.3 25.9



#66
Benzyl Chloride
Concen: 0.004 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.007 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

Tgt Ion: 91 Resp: 32
Ion Ratio Lower Upper
91 100
126 0.0 14.6 22.0#
128 0.0 4.6 6.8#

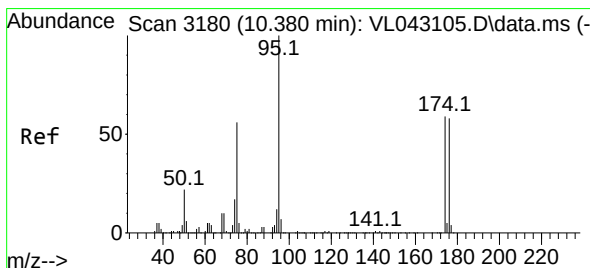
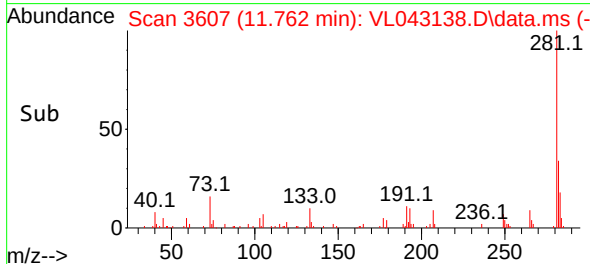
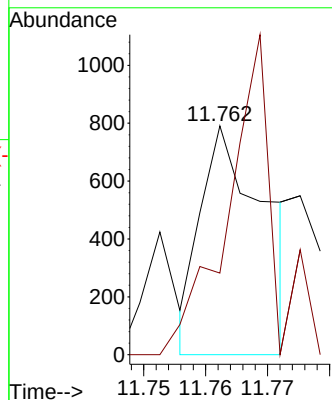
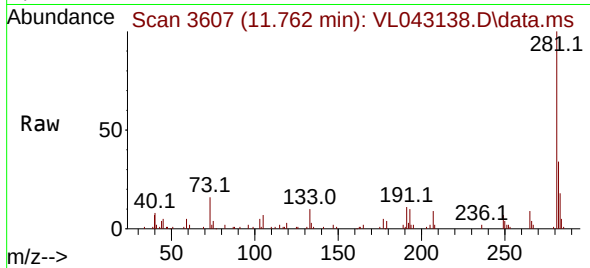




#67
sec-Butylbenzene
Concen: 0.005 ppbv
RT: 11.762 min Scan# 30
Delta R.T. -0.007 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

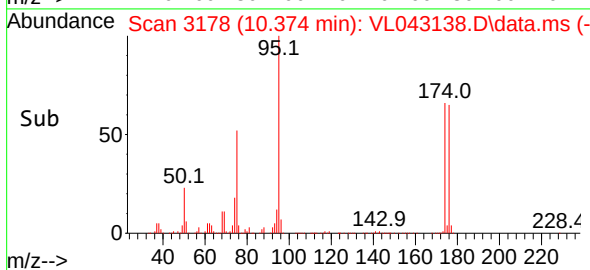
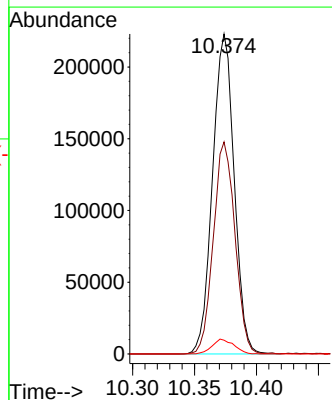
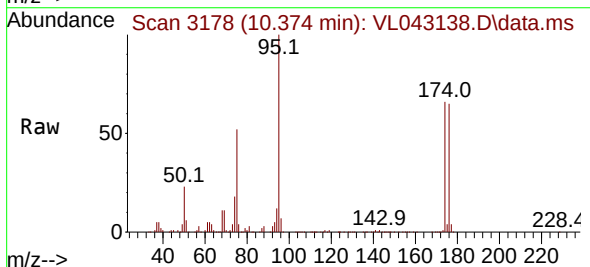
Instrument :
MSVOA_1
ClientSampleId :
VL1103ABL01

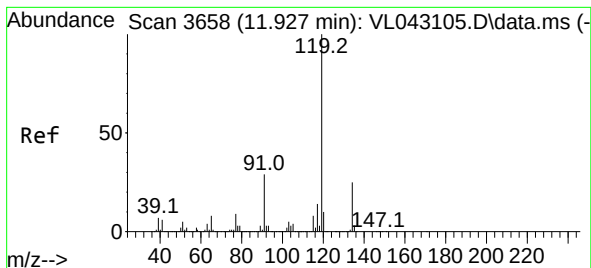
Tgt Ion:105 Resp: 563
Ion Ratio Lower Upper
105 100
134 0.0 15.5 23.3#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.550 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.007 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

Tgt Ion: 95 Resp: 271264
Ion Ratio Lower Upper
95 100
174 66.3 48.3 72.5
175 4.7 3.8 5.8





#69

p-Isopropyltoluene

Concen: 0.008 ppbv

RT: 11.924 min Scan# 3

Delta R.T. -0.003 min

Lab File: VL043138.D

Acq: 03 Nov 2025 09:17

Instrument :

MSVOA_1

ClientSampleId :

VL1103ABL01

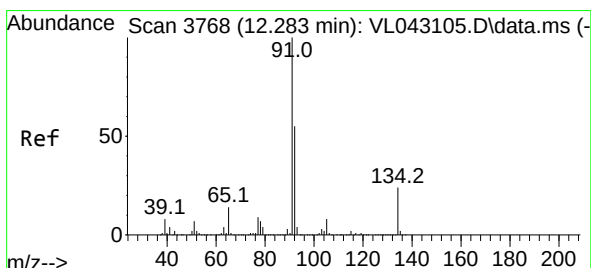
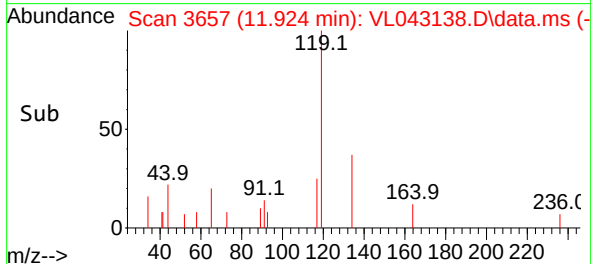
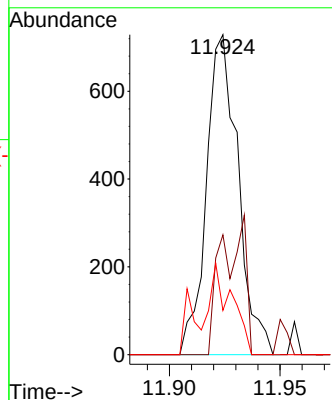
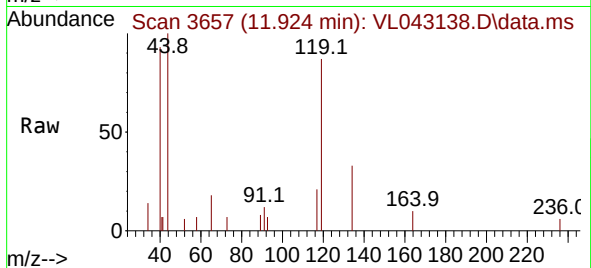
Tgt Ion:119 Resp: 725

Ion Ratio Lower Upper

119 100

134 36.1 20.3 30.5#

91 27.2 22.6 33.8



#70

n-Butylbenzene

Concen: 0.002 ppbv

RT: 12.274 min Scan# 3765

Delta R.T. -0.010 min

Lab File: VL043138.D

Acq: 03 Nov 2025 09:17

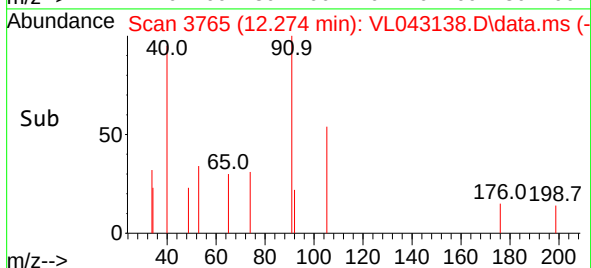
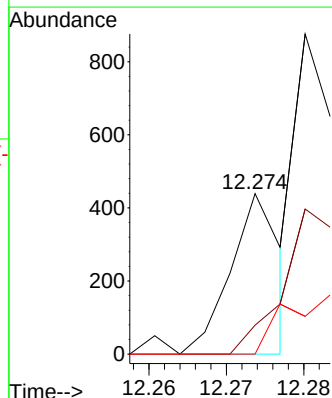
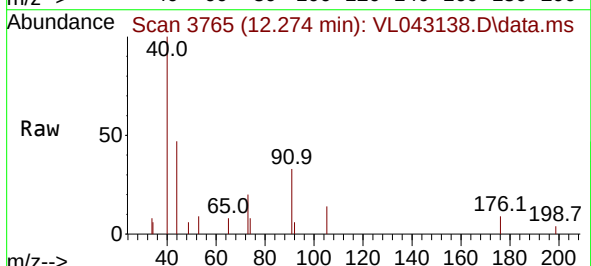
Tgt Ion: 91 Resp: 197

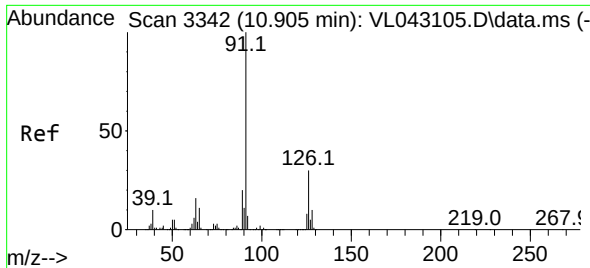
Ion Ratio Lower Upper

91 100

92 0.0 44.5 66.7#

134 0.0 19.3 28.9#

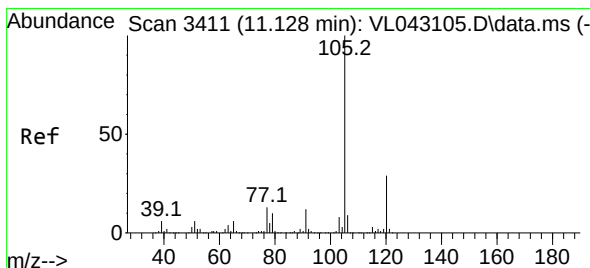
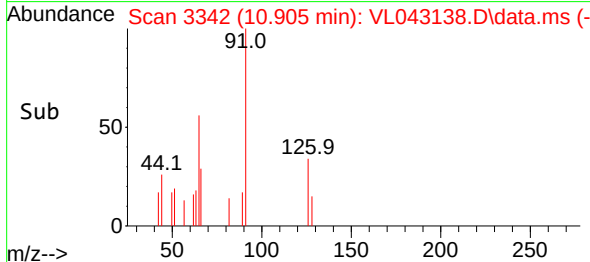
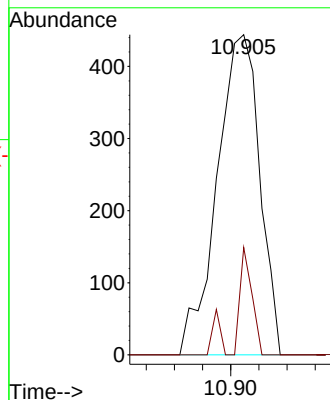
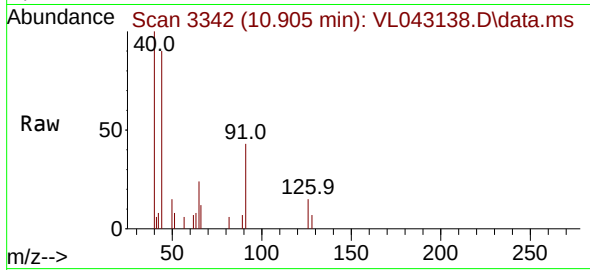




#71
2-Chlorotoluene
Concen: 0.007 ppbv
RT: 10.905 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

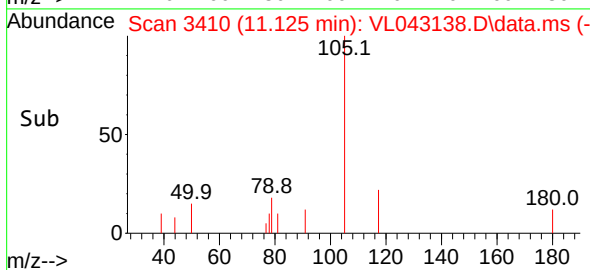
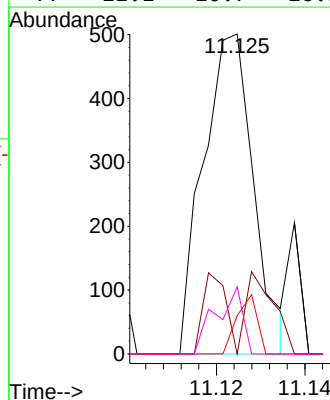
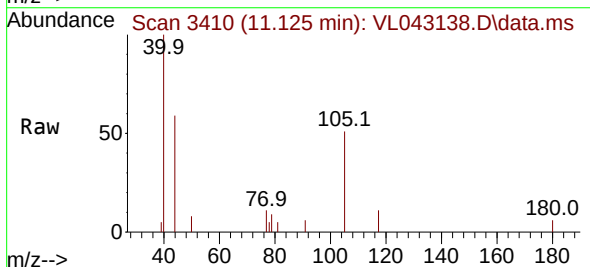
Instrument :
MSVOA_L
ClientSampleId :
VL1103ABL01

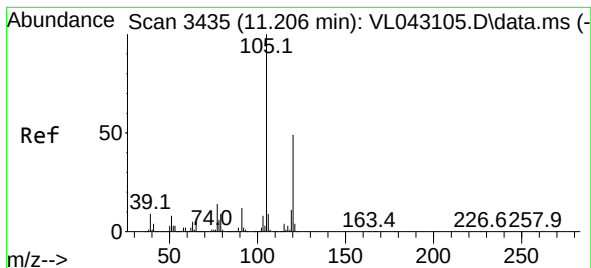
Tgt Ion: 91 Resp: 467
Ion Ratio Lower Upper
91 100
126 0.0 12.0 48.0#



#72
4-Ethyltoluene
Concen: 0.007 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. -0.003 min
Lab File: VL043138.D
Acq: 03 Nov 2025 09:17

Tgt Ion: 105 Resp: 396
Ion Ratio Lower Upper
105 100
120 21.2 24.2 36.4#
91 7.6 10.0 15.0#
77 11.1 10.7 16.1





#73

1,3,5-Trimethylbenzene

Concen: 0.005 ppbv

RT: 11.202 min Scan# 3435

Delta R.T. -0.003 min

Lab File: VL043138.D

Acq: 03 Nov 2025 09:17

Instrument :

MSVOA_1

ClientSampleId :

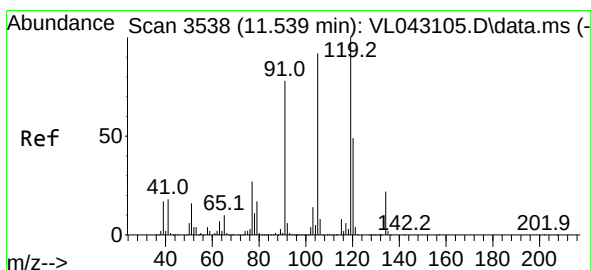
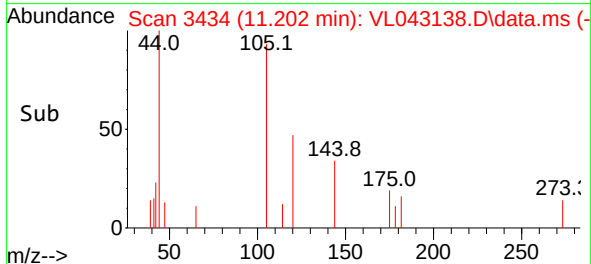
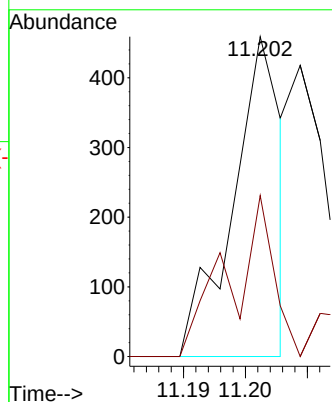
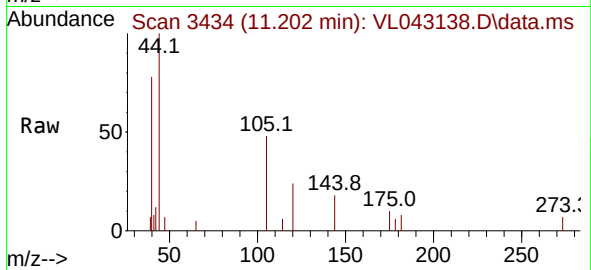
VL1103ABL01

Tgt Ion:105 Resp: 253

Ion Ratio Lower Upper

105 100

120 50.3 39.0 58.6



#74

1,2,4-Trimethylbenzene

Concen: 0.011 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.003 min

Lab File: VL043138.D

Acq: 03 Nov 2025 09:17

Tgt Ion:105 Resp: 613

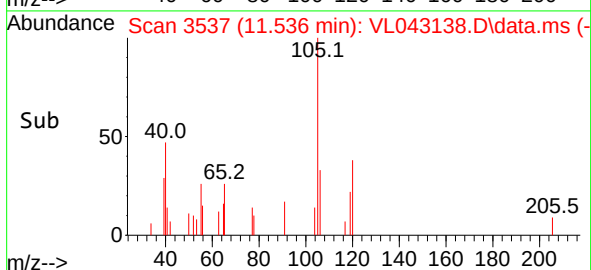
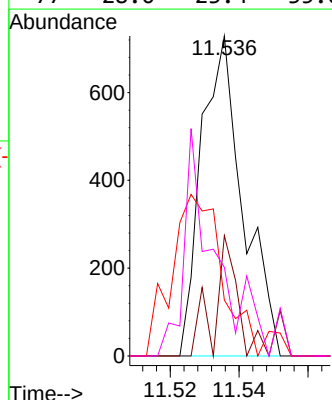
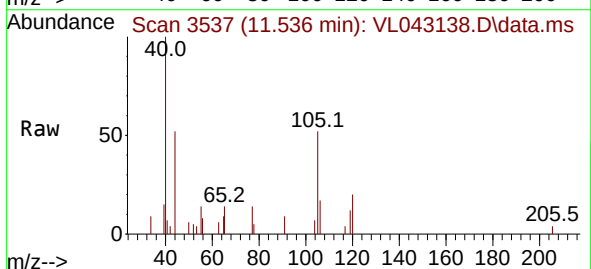
Ion Ratio Lower Upper

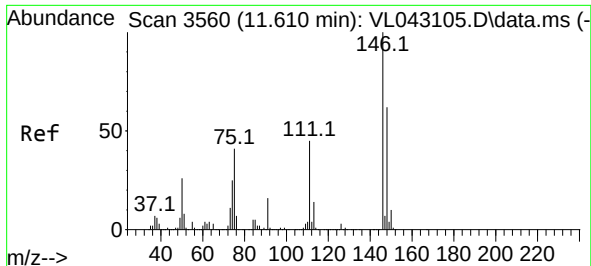
105 100

120 37.6 42.8 64.2#

91 10.3 68.3 102.5#

77 28.0 23.4 35.0





#75

1,3-Dichlorobenzene

Concen: 0.012 ppbv

RT: 11.610 min Scan# 3560

Delta R.T. -0.000 min

Lab File: VL043138.D

Acq: 03 Nov 2025 09:17

Instrument :

MSVOA_L

ClientSampleId :

VL1103ABL01

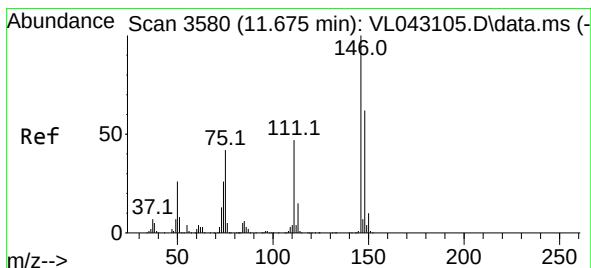
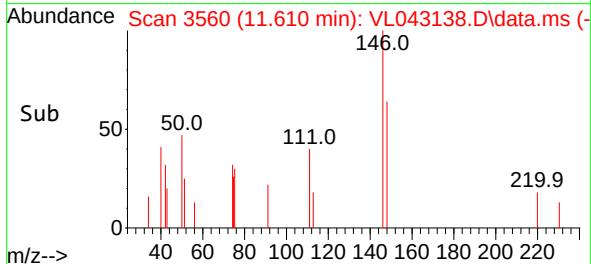
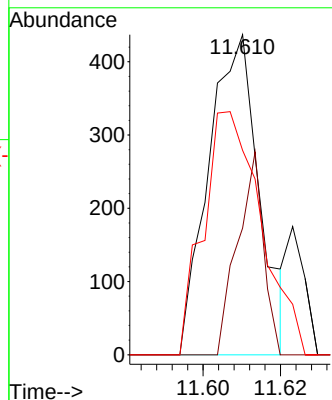
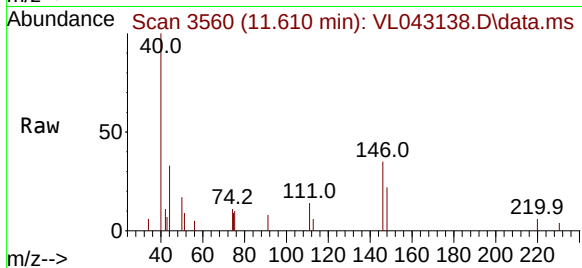
Tgt Ion:146 Resp: 396

Ion Ratio Lower Upper

146 100

111 32.6 23.3 69.9

148 86.9 31.6 95.0



#76

1,4-Dichlorobenzene

Concen: 0.013 ppbv

RT: 11.672 min Scan# 3579

Delta R.T. -0.003 min

Lab File: VL043138.D

Acq: 03 Nov 2025 09:17

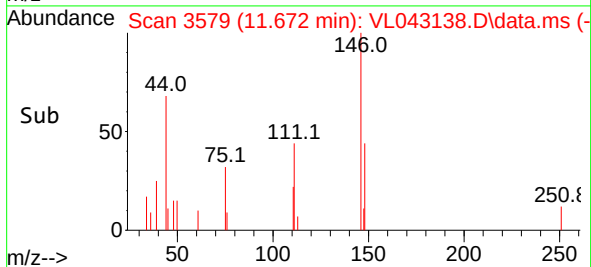
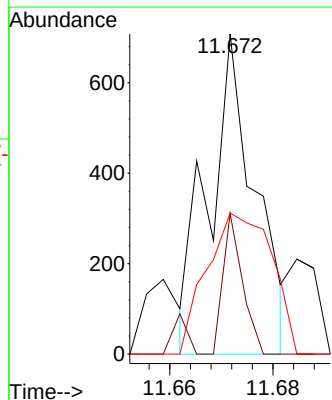
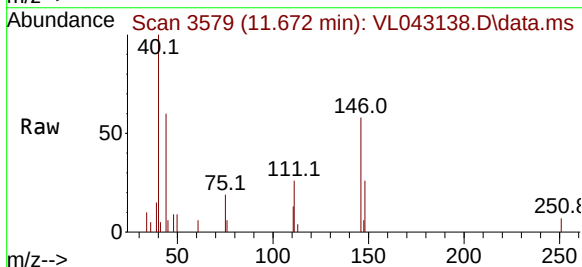
Tgt Ion:146 Resp: 439

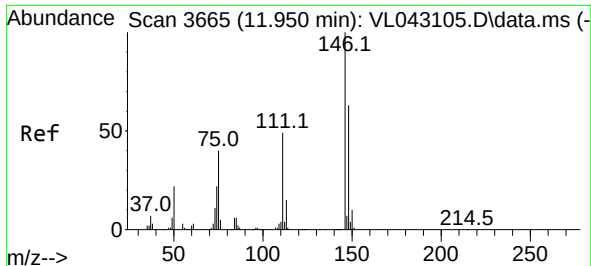
Ion Ratio Lower Upper

146 100

111 22.6 22.4 67.0

148 62.2 31.6 94.7

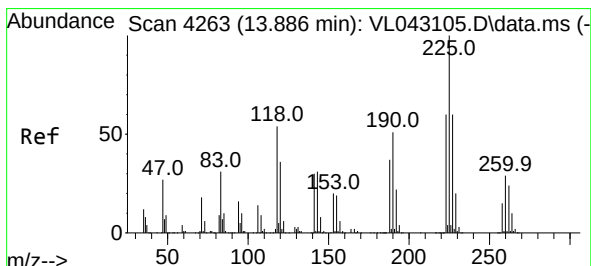
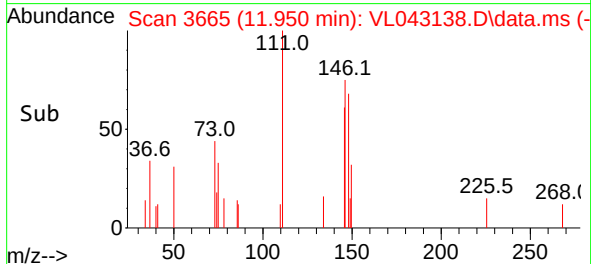
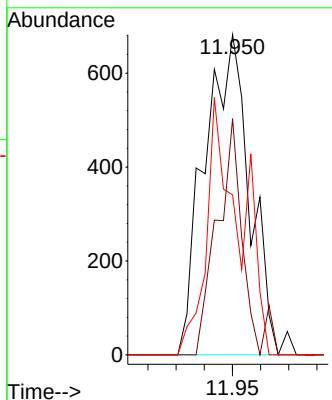
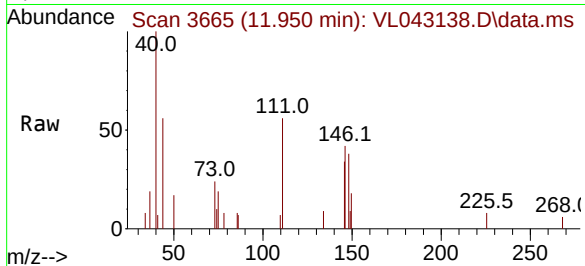




#77
 1,2-Dichlorobenzene
 Concen: 0.024 ppbv
 RT: 11.950 min Scan# 30
 Delta R.T. -0.000 min
 Lab File: VL043138.D
 Acq: 03 Nov 2025 09:17

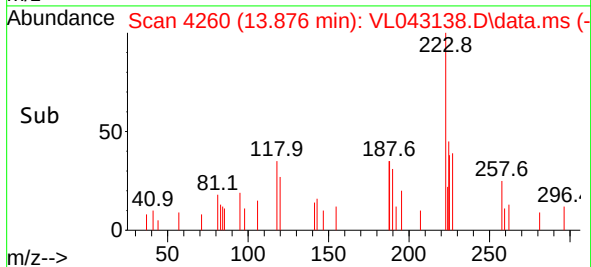
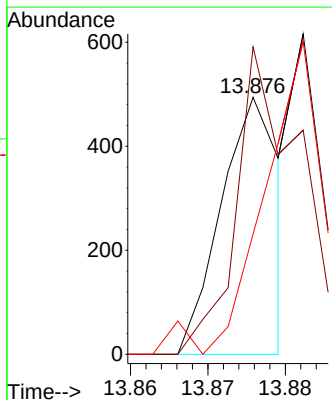
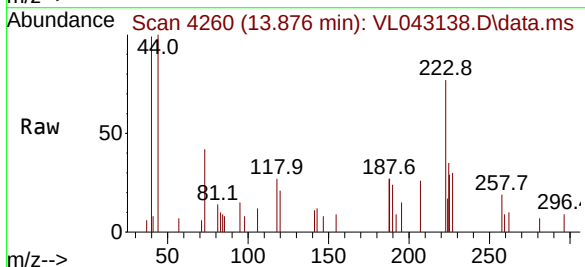
Instrument :
 MSVOA_1
 ClientSampleId :
 VL1103ABL01

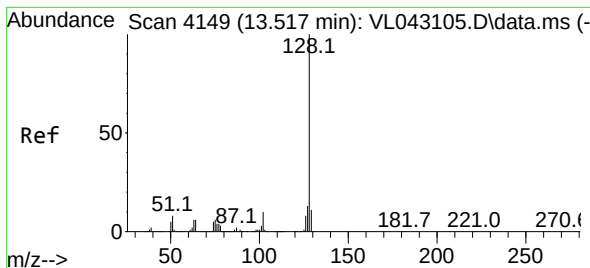
Tgt Ion:	146	Resp:	755
Ion Ratio	Lower	Upper	
146	100		
111	42.5	24.0	72.0
148	59.5	31.1	93.3



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.011 ppbv
 RT: 13.876 min Scan# 4260
 Delta R.T. -0.010 min
 Lab File: VL043138.D
 Acq: 03 Nov 2025 09:17

Tgt Ion:	225	Resp:	262
Ion Ratio	Lower	Upper	
225	100		
223	135.1	50.2	75.4#
227	0.0	49.6	74.4#





#79

Naphthalene

Concen: 0.030 ppbv

RT: 13.513 min Scan# 4149

Delta R.T. -0.003 min

Lab File: VL043138.D

Acq: 03 Nov 2025 09:17

Instrument :

MSVOA_L

ClientSampleId :

VL1103ABL01

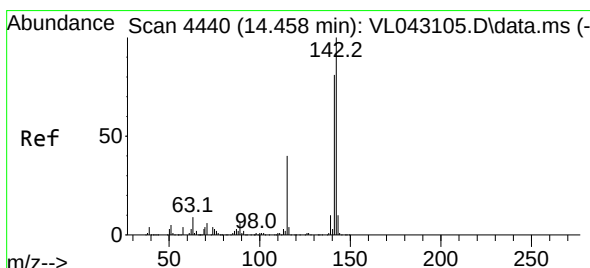
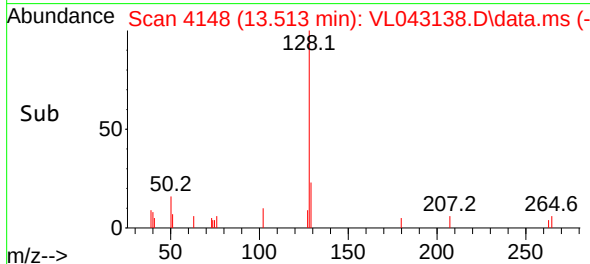
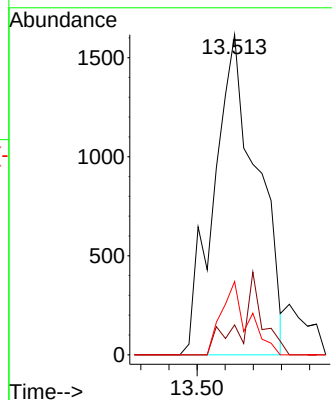
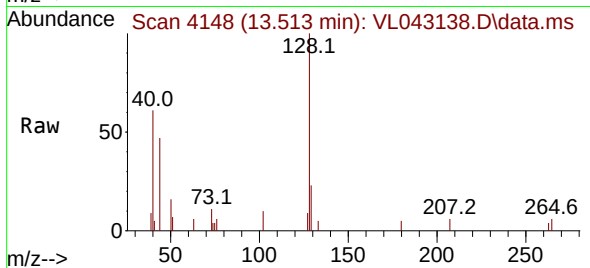
Tgt Ion:128 Resp: 1730

Ion Ratio Lower Upper

128 100

127 9.3 10.5 15.7#

129 22.9 9.1 13.7#



#80

Naphthalene,2-methyl-

Concen: 0.004 ppbv

RT: 14.598 min Scan# 4483

Delta R.T. 0.139 min

Lab File: VL043138.D

Acq: 03 Nov 2025 09:17

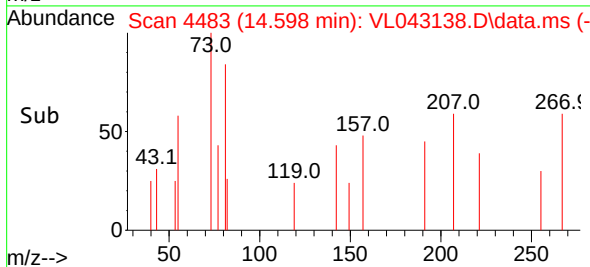
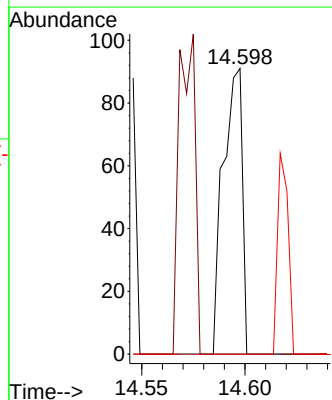
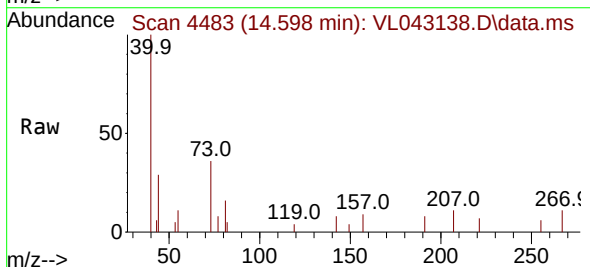
Tgt Ion:142 Resp: 58

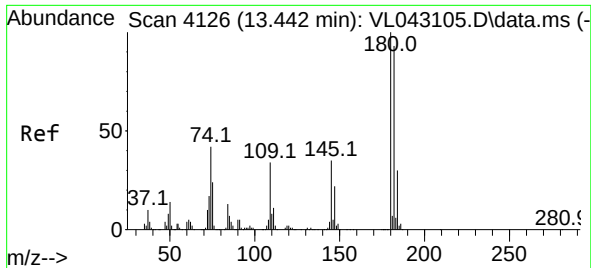
Ion Ratio Lower Upper

142 100

141 94.8 64.6 97.0

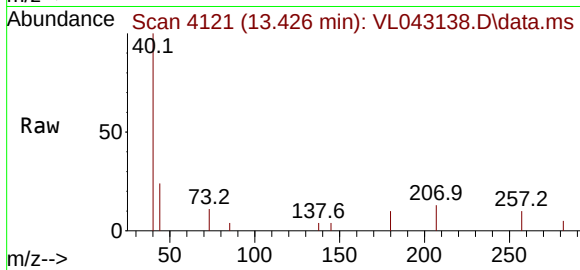
115 39.7 30.2 45.4





#81
 1,2,4-Trichlorobenzene
 Concen: 0.001 ppbv
 RT: 13.426 min Scan# 41
 Delta R.T. -0.016 min
 Lab File: VL043138.D
 Acq: 03 Nov 2025 09:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1103ABL01



Tgt Ion:180 Resp: 25
 Ion Ratio Lower Upper
 180 100
 182 0.0 75.5 113.3#
 184 0.0 23.9 35.9#

