

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042740.D
 Acq On : 22 Jul 2025 20:36
 Operator : SY/MD
 Sample : Q2632-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Jul 23 03:05:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Jul 23 02:51:39 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	107374	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	306694	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	276267	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	234821	10.517	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.200%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	7326	0.437	ppbv	90
3) Chlorodifluoromethane	1.845	51	1789	0.094	ppbv	92
4) Chloromethane	1.534	50	4350	0.634	ppbv #	85
5) Vinyl Chloride	1.651	62	2766	0.408	ppbv #	7
7) Chloroethane	1.706	64	138	0.054	ppbv #	42
8) Dichlorotetrafluoroethane	1.651	85	17561	1.242	ppbv #	19
9) Propene	1.890	41	18595	2.765	ppbv	85
10) Heptane	4.985	43	7374	0.394	ppbv	94
11) Trichlorofluoromethane	1.881	101	3824	0.222	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.143	101	826	0.061	ppbv	95
13) Ethanol	1.722	45	177250	156.653	ppbv	98
15) Acetone	1.835	43	1326002	73.756	ppbv	91
16) 1,3-Butadiene	1.602	39	2550	0.331	ppbv #	47
17) tert-Butyl alcohol	2.046	59	18433	1.080	ppbv	99
19) Isopropyl Alcohol	1.887	45	210865	22.131	ppbv #	1
20) Methylene Chloride	2.065	84	27267	4.825	ppbv	98
21) Allyl Chloride	2.042	41	21855	1.896	ppbv #	80
23) Vinyl Acetate	2.453	43	29797	1.454	ppbv #	92
25) Ethyl Acetate	2.839	43	61523	1.854	ppbv #	96
26) Hexane	2.829	57	19564	1.344	ppbv #	59
27) Carbon Disulfide	2.152	76	1640	0.105	ppbv #	1
29) Chloroform	2.852	83	1945	0.081	ppbv	92
31) cis-1,2-Dichloroethene	2.842	61	5611	0.358	ppbv #	25
34) 2-Butanone	2.557	43	118114	5.593	ppbv	97
35) Carbon Tetrachloride	3.764	117	801	0.032	ppbv #	76
36) Benzene	3.658	78	7046	0.247	ppbv #	88
37) 1,2-Dichloroethane	3.221	62	40202	2.212	ppbv	99
39) 1,2-Dichloropropane	3.958	63	80097	7.550	ppbv #	20
40) 1,4-Dioxane	4.603	88	346	0.068	ppbv #	20
41) Tetrahydrofuran	3.059	42	30590	2.873	ppbv #	52
43) Methyl Methacrylate	4.891	69	707	0.065	ppbv #	1
44) 2,2,4-Trimethylpentane	4.651	57	1565	0.033	ppbv #	40
50) 4-Methyl-2-Pentanone	5.758	43	110761	4.002	ppbv	99
51) 2-Hexanone	7.444	43	7880	0.357	ppbv #	89
52) Tetrachloroethene	8.231	164	5916	0.515	ppbv #	77
53) Toluene	6.936	91	661664	20.596	ppbv	100
58) Ethyl Benzene	9.360	91	62250	1.349	ppbv	97
59) m/p-Xylene	9.532	91	290932	7.880	ppbv	97
60) o-Xylene	9.966	91	167095	4.483	ppbv	100
61) Styrene	9.875	104	24847	1.547	ppbv	98
62) Isopropylbenzene	10.542	105	29256	0.528	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.992	83	992	0.047	ppbv #	26
64) n-propylbenzene	10.992	120	20874	1.493	ppbv	88

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 ALS Vial : 1 Sample Multiplier: 1

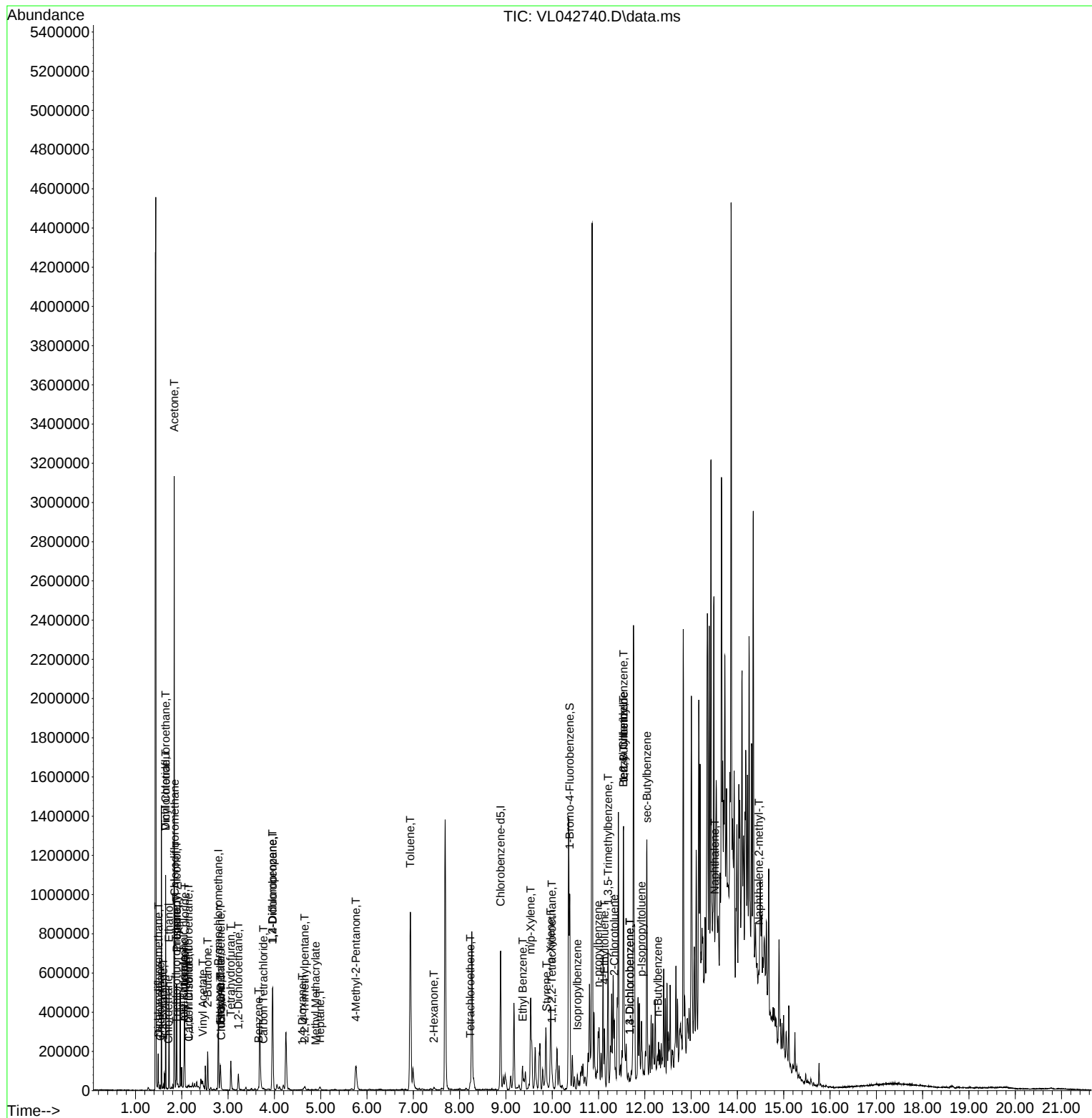
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

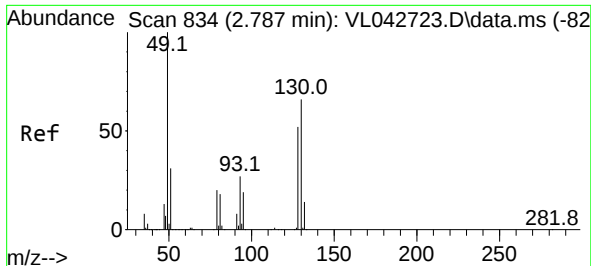
Quant Time: Jul 23 03:05:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Jul 23 02:51:39 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
65) tert-Butylbenzene	11.539	119	51429	1.037	ppbv	#	51
66) Benzyl Chloride	11.535	91	64164	13.603	ppbv	#	65
67) sec-Butylbenzene	12.047	105	8220	0.121	ppbv		97
69) p-Isopropyltoluene	11.927	119	98817	1.732	ppbv		99
70) n-Butylbenzene	12.283	91	38695	0.710	ppbv	#	48
71) 2-Chlorotoluene	11.341	91	17535	0.417	ppbv		84
72) 4-Ethyltoluene	11.128	105	101468	2.283	ppbv	#	55
73) 1,3,5-Trimethylbenzene	11.205	105	168163	4.574	ppbv		94
74) 1,2,4-Trimethylbenzene	11.539	105	444602	11.022	ppbv	#	58
75) 1,3-Dichlorobenzene	11.671	146	3848	0.143	ppbv	#	1
76) 1,4-Dichlorobenzene	11.671	146	3848	0.147	ppbv	#	1
79) Naphthalene	13.513	128	23811	0.789	ppbv		96
80) Naphthalene,2-methyl-	14.465	142	2842	0.286	ppbv	#	38

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

Quant Time: Jul 23 03:05:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Jul 23 02:51:39 2025
Response via : Initial Calibration

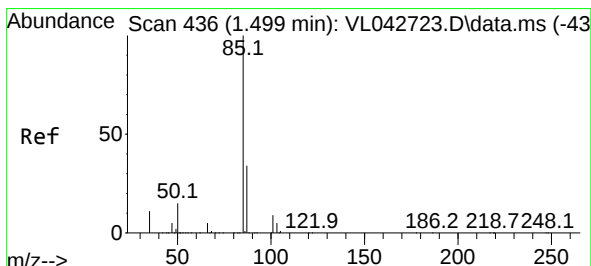
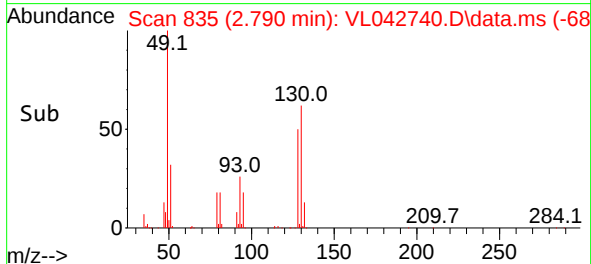
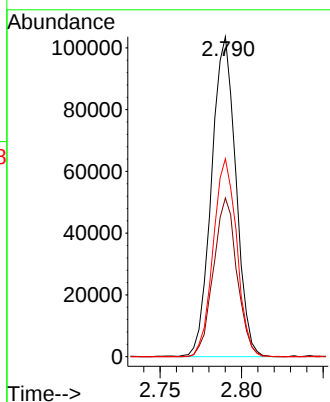
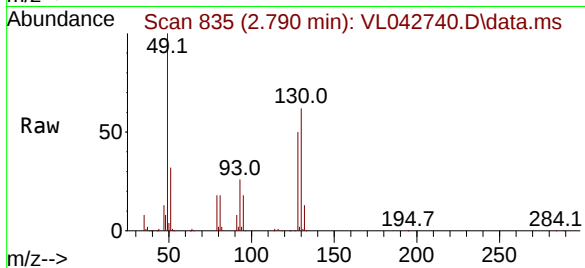




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 834
Delta R.T. 0.003 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

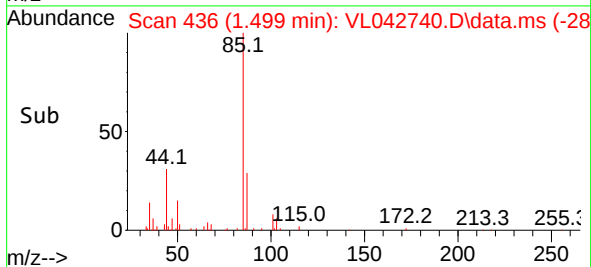
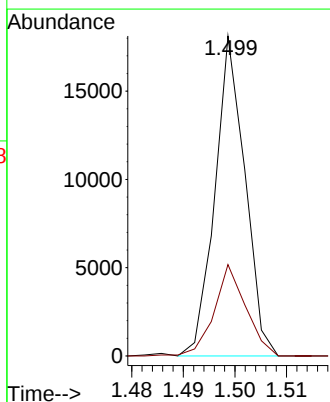
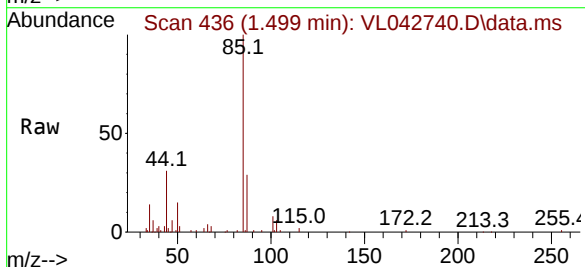
Instrument :
MSVOA_L
ClientSampleId :
IA1

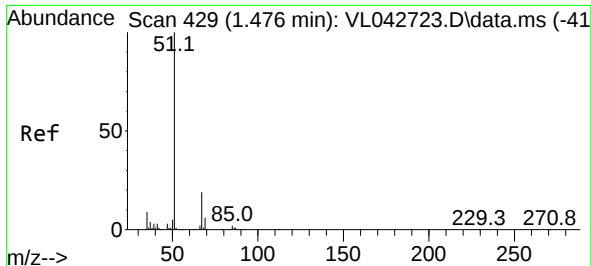
Tgt Ion: 49 Resp: 107374
Ion Ratio Lower Upper
49 100
128 47.9 24.5 73.5
130 59.9 31.7 95.1



#2
Dichlorodifluoromethane
Concen: 0.437 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

Tgt Ion: 85 Resp: 7326
Ion Ratio Lower Upper
85 100
87 28.5 27.5 41.3

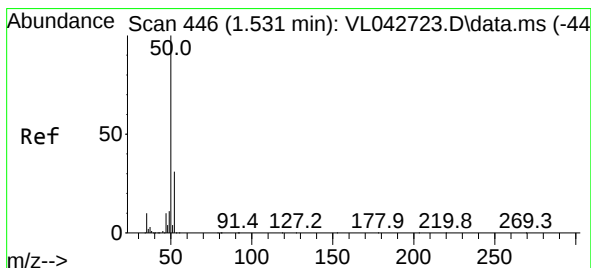
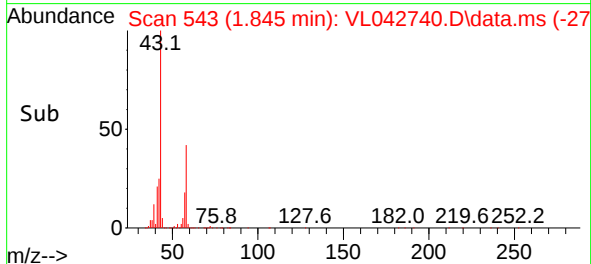
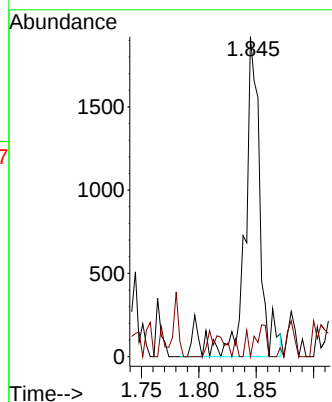
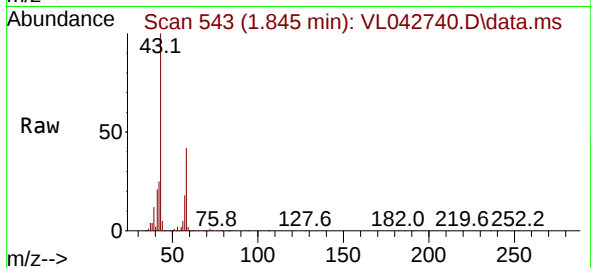




#3
Chlorodifluoromethane
Concen: 0.094 ppbv
RT: 1.845 min Scan# 54
Delta R.T. 0.369 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

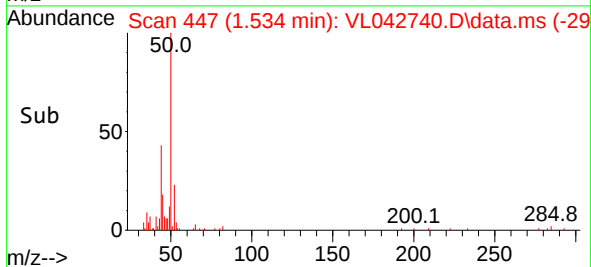
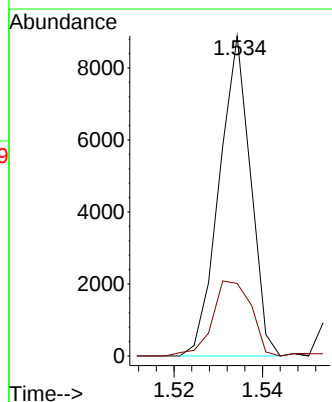
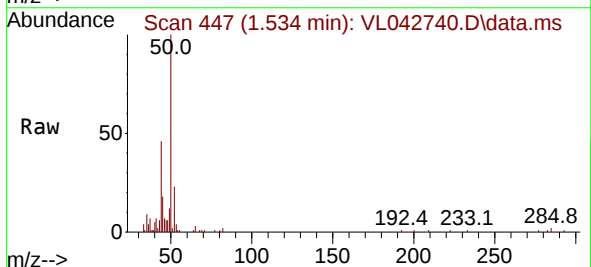
Instrument :
MSVOA_L
ClientSampleId :
IA1

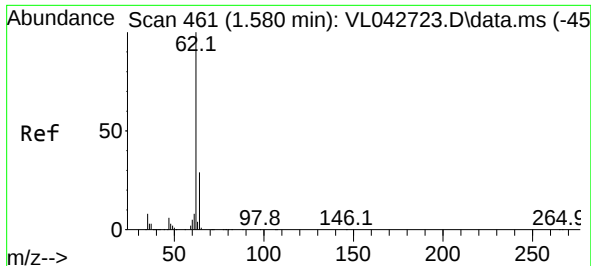
Tgt Ion: 51 Resp: 1789
Ion Ratio Lower Upper
51 100
67 16.5 16.0 24.0



#4
Chloromethane
Concen: 0.634 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

Tgt Ion: 50 Resp: 4350
Ion Ratio Lower Upper
50 100
52 22.6 24.9 37.3#

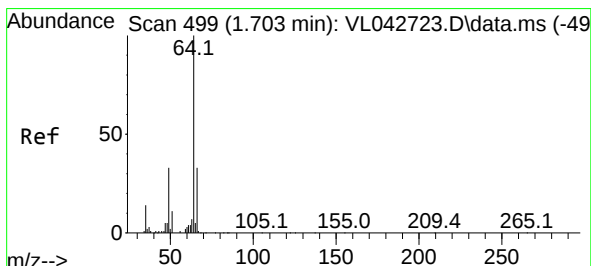
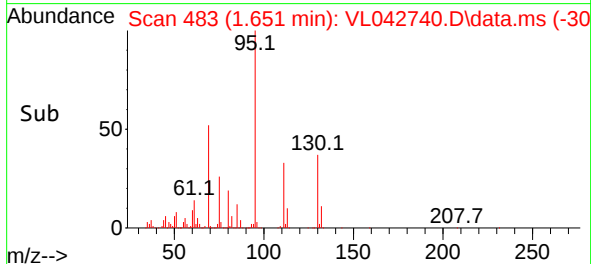
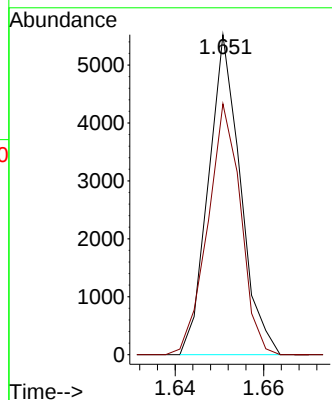
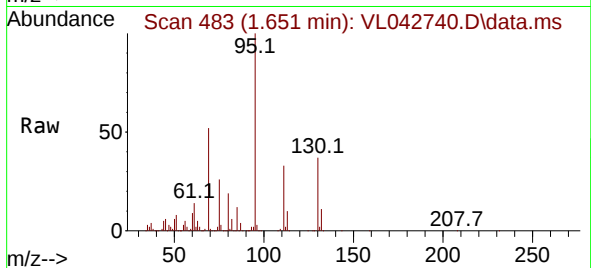




#5
 Vinyl Chloride
 Concen: 0.408 ppbv
 RT: 1.651 min Scan# 41
 Delta R.T. 0.071 min
 Lab File: VL042740.D
 Acq: 22 Jul 2025 20:36

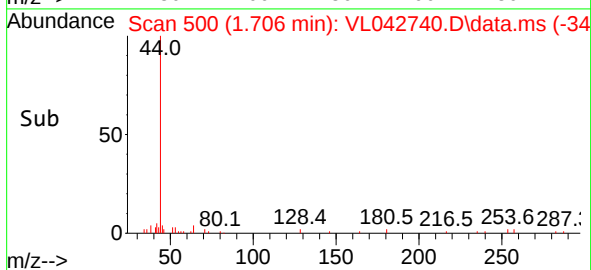
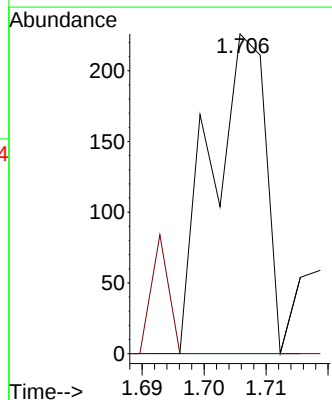
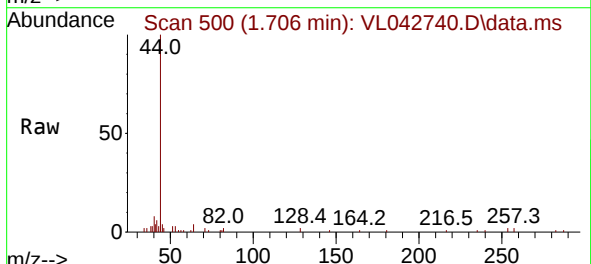
Instrument :
 MSVOA_1
 ClientSampleId :
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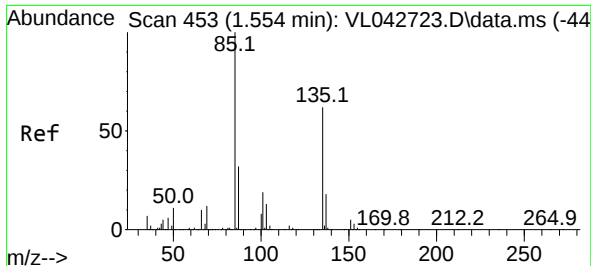
Tgt Ion: 62 Resp: 2766
 Ion Ratio Lower Upper
 62 100
 64 78.4 23.0 34.6#



#7
 Chloroethane
 Concen: 0.054 ppbv
 RT: 1.706 min Scan# 500
 Delta R.T. 0.003 min
 Lab File: VL042740.D
 Acq: 22 Jul 2025 20:36

Tgt Ion: 64 Resp: 138
 Ion Ratio Lower Upper
 64 100
 66 0.0 26.4 39.6#

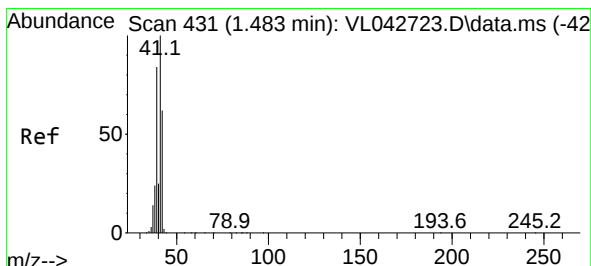
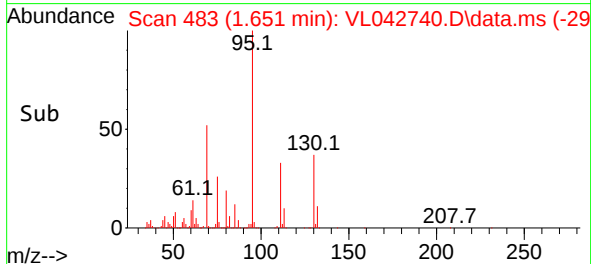
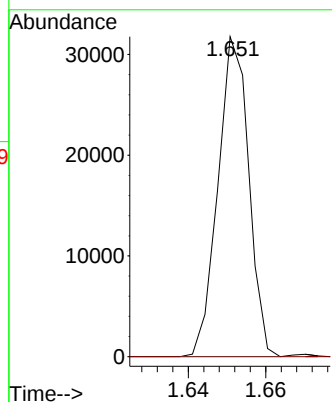
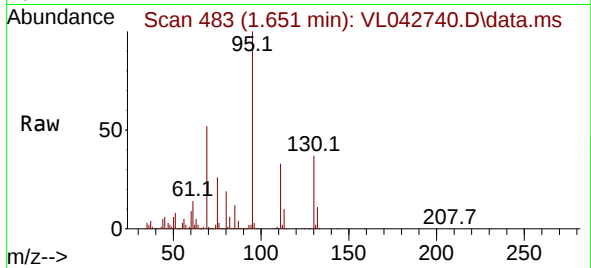




#8
Dichlorotetrafluoroethane
Concen: 1.242 ppbv
RT: 1.651 min Scan# 41
Delta R.T. 0.097 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

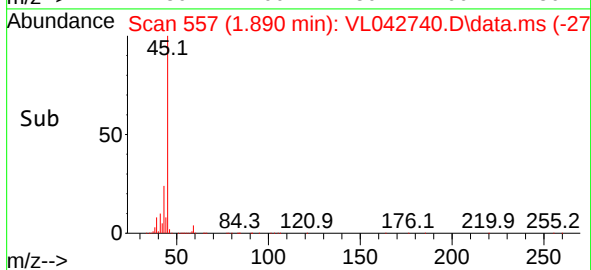
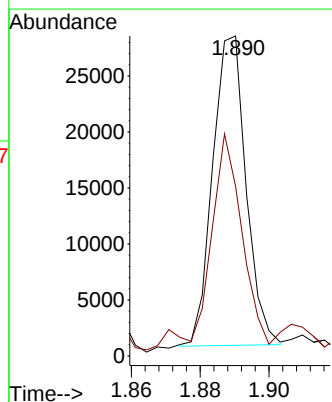
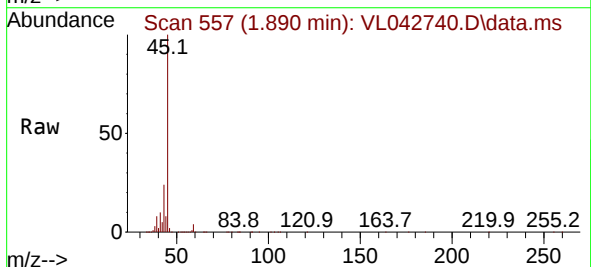
Instrument :
MSVOA_L
ClientSampleId :
IA1

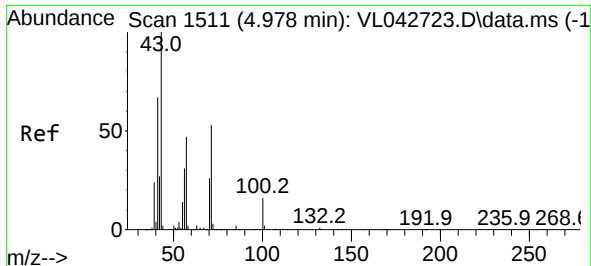
Tgt Ion: 85 Resp: 17561
Ion Ratio Lower Upper
85 100
135 1.0 52.0 78.0#



#9
Propene
Concen: 2.765 ppbv
RT: 1.890 min Scan# 557
Delta R.T. 0.408 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

Tgt Ion: 41 Resp: 18595
Ion Ratio Lower Upper
41 100
42 77.0 52.0 78.0

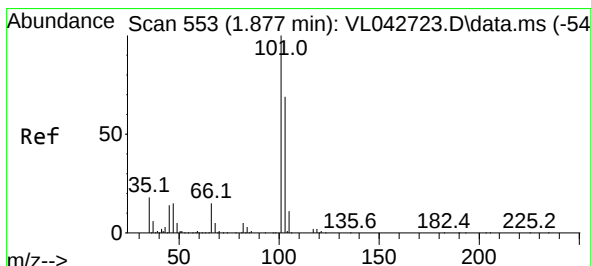
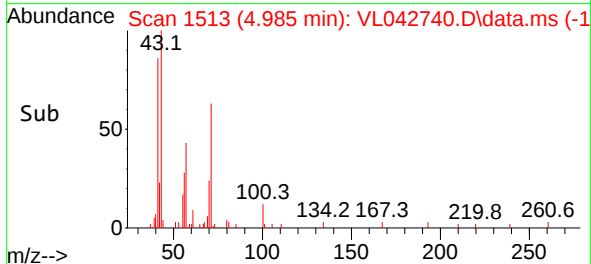
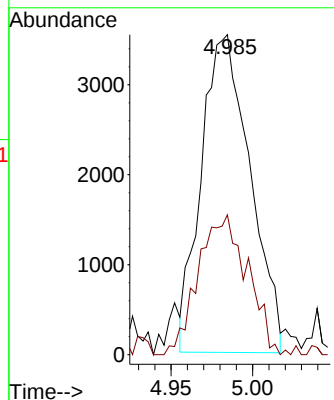
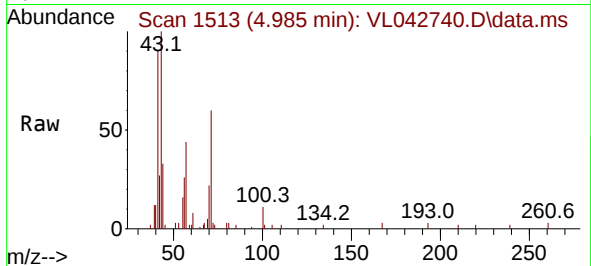




#10
Heptane
Concen: 0.394 ppbv
RT: 4.985 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

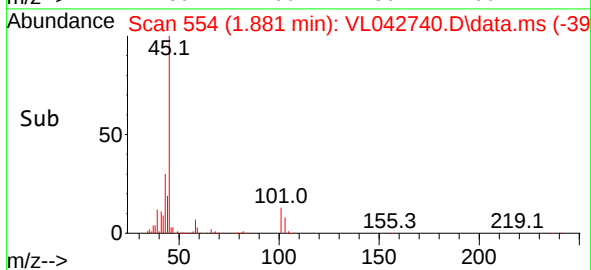
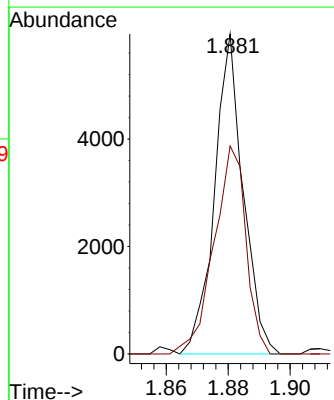
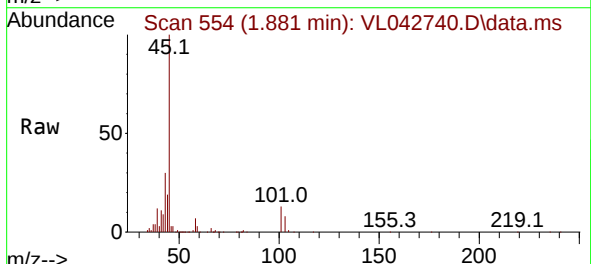
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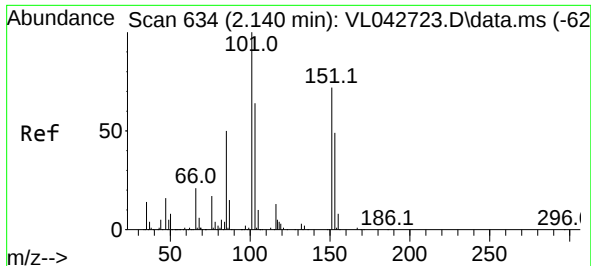
Tgt Ion: 43 Resp: 7374
Ion Ratio Lower Upper
43 100
57 44.9 39.1 58.7



#11
Trichlorofluoromethane
Concen: 0.222 ppbv
RT: 1.881 min Scan# 554
Delta R.T. 0.003 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

Tgt Ion: 101 Resp: 3824
Ion Ratio Lower Upper
101 100
103 65.0 55.2 82.8





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.061 ppbv

RT: 2.143 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042740.D

Acq: 22 Jul 2025 20:36

Instrument :

MSVOA_L

ClientSampleId :

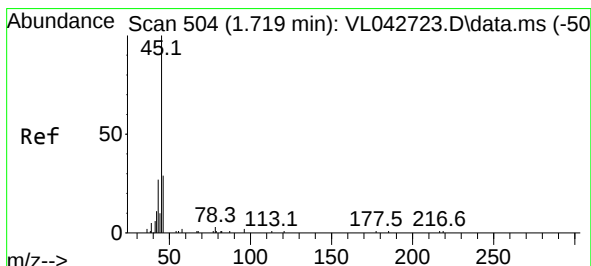
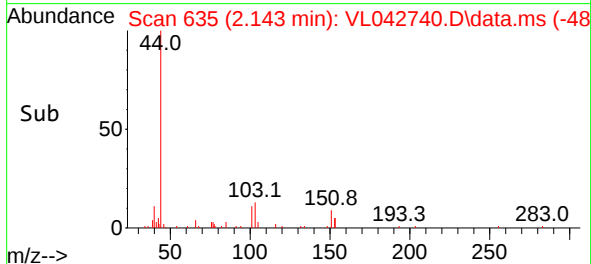
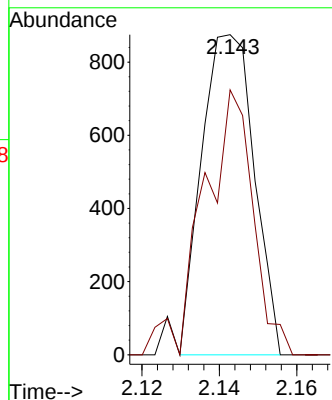
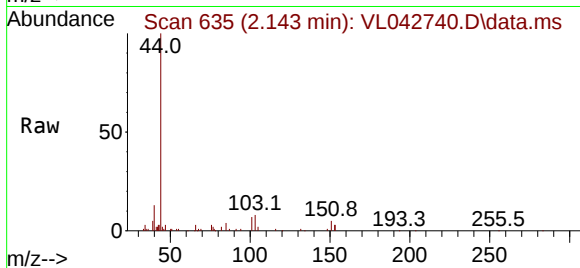
IA1

Tgt Ion:101 Resp: 826

Ion Ratio Lower Upper

101 100

151 78.3 59.1 88.7



#13

Ethanol

Concen: 156.653 ppbv

RT: 1.722 min Scan# 505

Delta R.T. 0.003 min

Lab File: VL042740.D

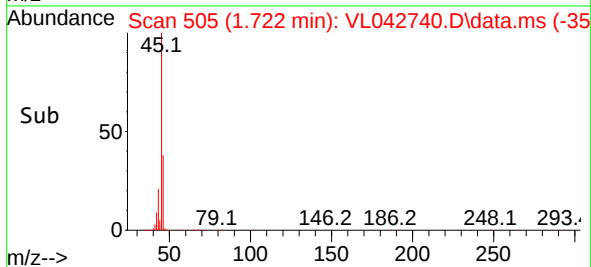
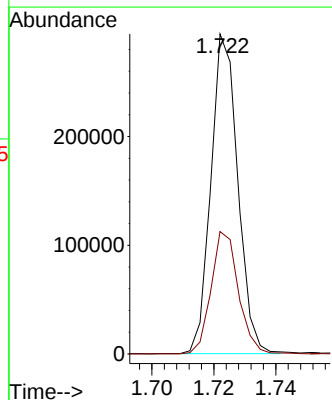
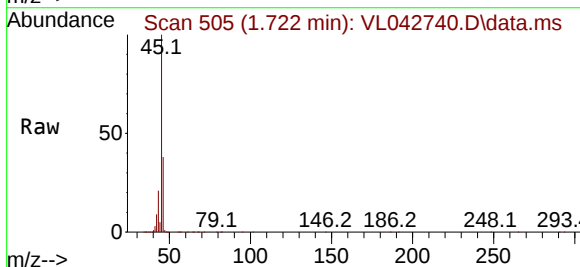
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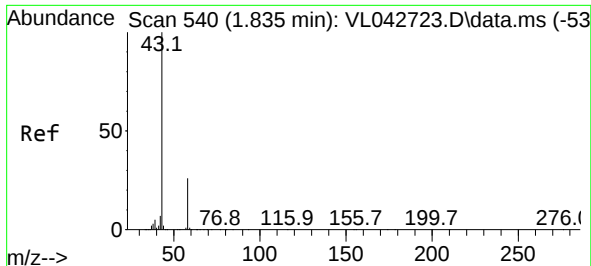
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Ion Ratio Lower Upper

45 100

46 39.4 16.3 65.1

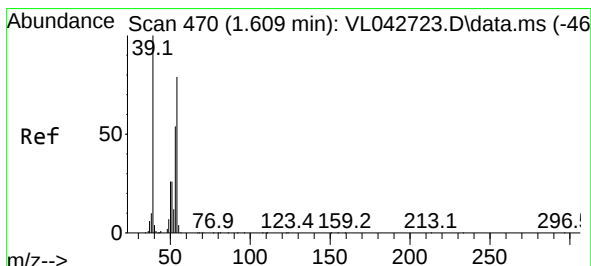
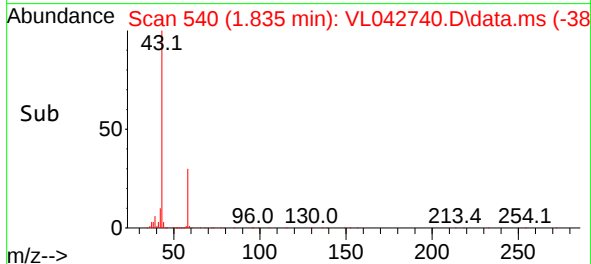
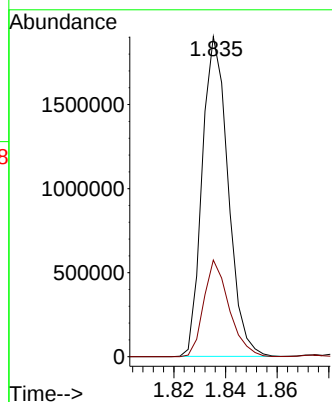
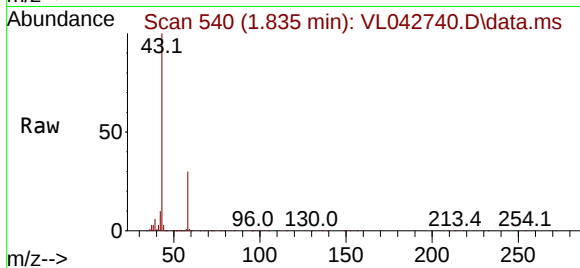




#15
Acetone
Concen: 73.756 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

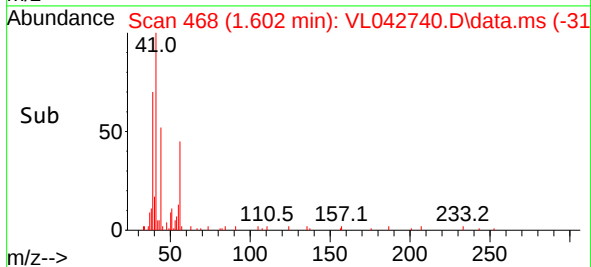
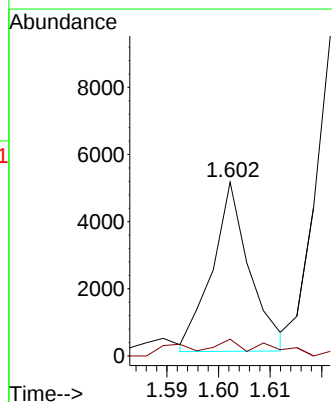
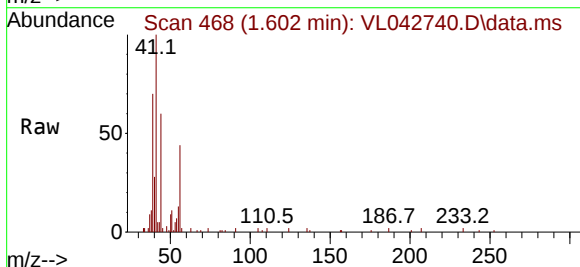
Instrument :
MSVOA_L
ClientSampleId :
IA1

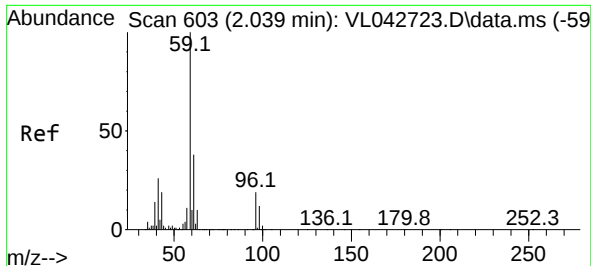
Tgt Ion: 43 Resp: 1326002
Ion Ratio Lower Upper
43 100
58 30.2 20.5 30.7



#16
1,3-Butadiene
Concen: 0.331 ppbv
RT: 1.602 min Scan# 468
Delta R.T. -0.007 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

Tgt Ion: 39 Resp: 2550
Ion Ratio Lower Upper
39 100
54 25.1 54.6 82.0#





#17

tert-Butyl alcohol

Concen: 1.080 ppbv

RT: 2.046 min Scan# 603

Delta R.T. 0.006 min

Lab File: VL042740.D

Acq: 22 Jul 2025 20:36

Instrument :

MSVOA_1

ClientSampleId :

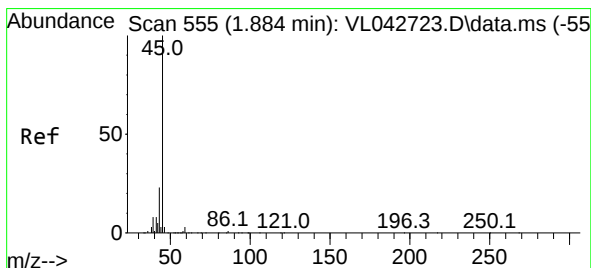
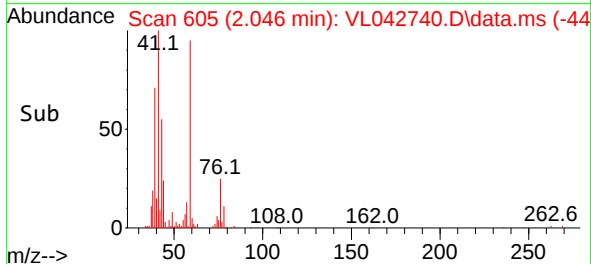
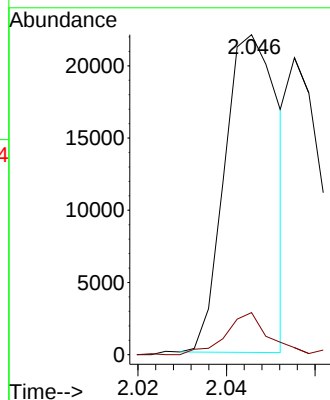
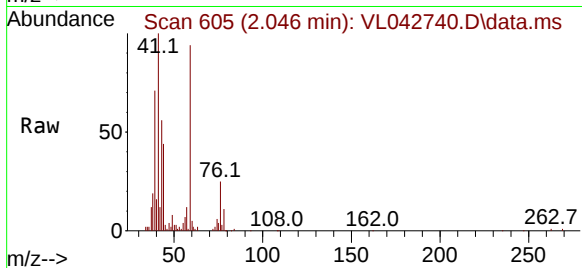
IA1

Tgt Ion: 59 Resp: 18433

Ion Ratio Lower Upper

59 100

57 11.1 9.1 13.7



#19

Isopropyl Alcohol

Concen: 22.131 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.003 min

Lab File: VL042740.D

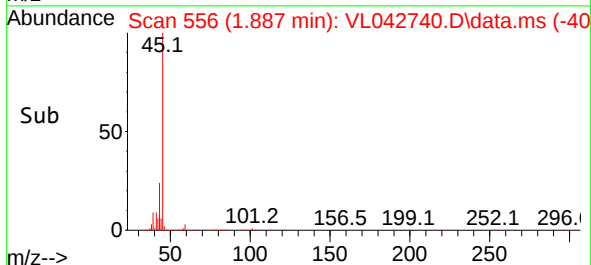
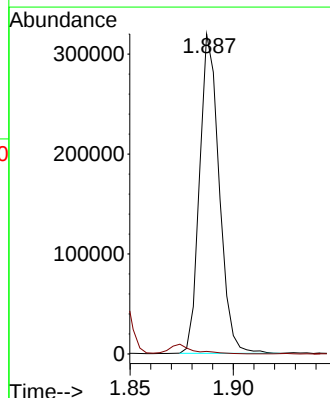
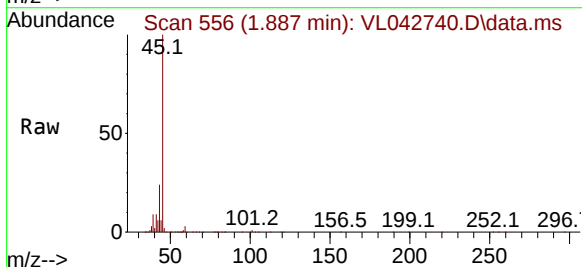
Acq: 22 Jul 2025 20:36

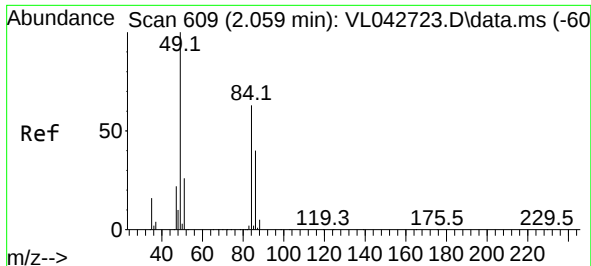
Tgt Ion: 45 Resp: 210865

Ion Ratio Lower Upper

45 100

58 189.7 30.6 46.0#

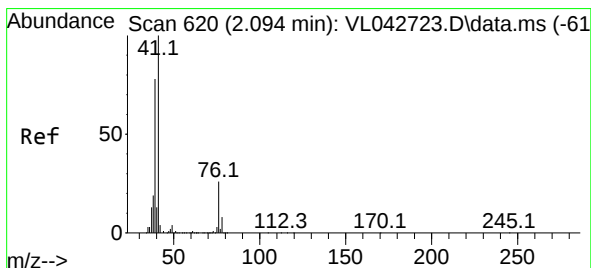
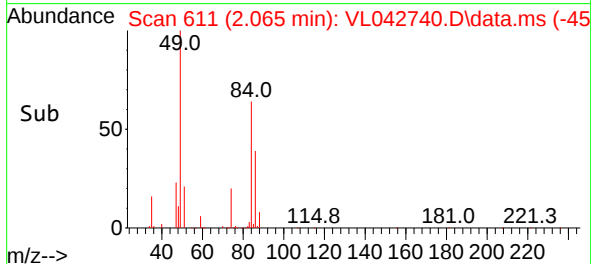
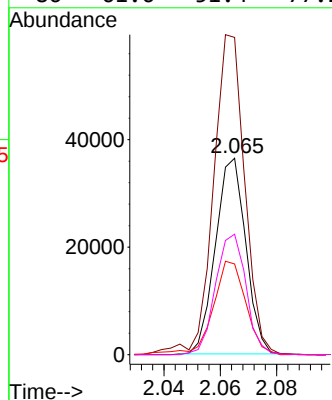
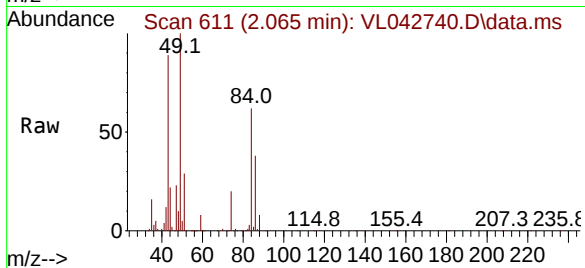




#20
Methylene Chloride
Concen: 4.825 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

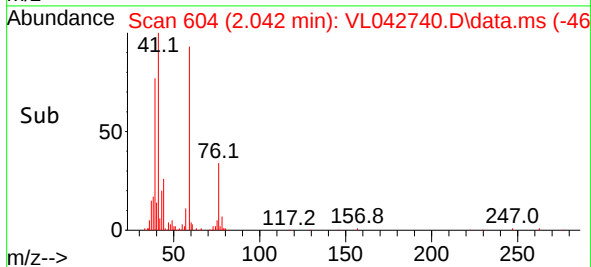
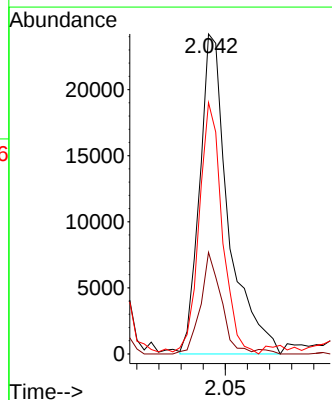
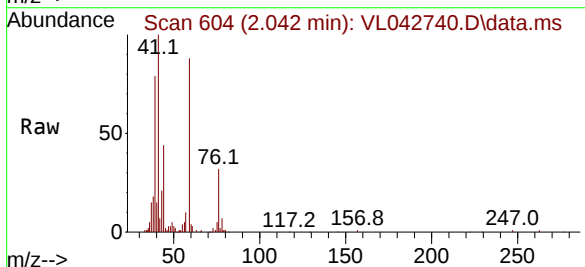
Instrument :
MSVOA_L
ClientSampleId :
IA1

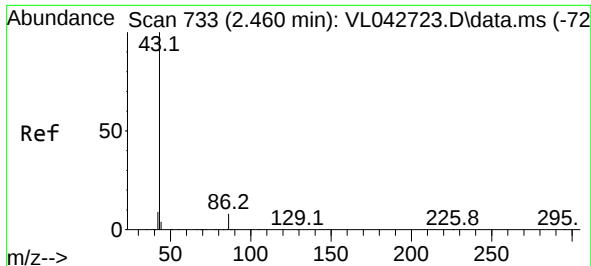
Tgt Ion: 84 Resp: 27267
Ion Ratio Lower Upper
84 100
49 161.7 128.2 192.4
51 46.4 34.5 51.7
86 61.6 51.4 77.2



#21
Allyl Chloride
Concen: 1.896 ppbv
RT: 2.042 min Scan# 604
Delta R.T. -0.052 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

Tgt Ion: 41 Resp: 21855
Ion Ratio Lower Upper
41 100
76 23.5 22.1 33.1
39 59.2 64.7 97.1#



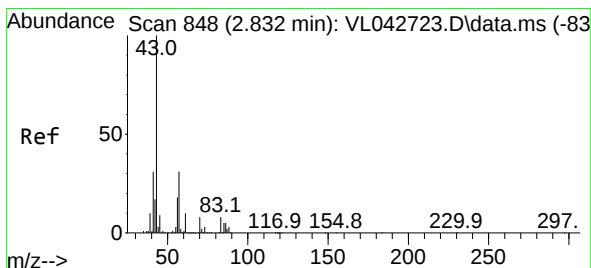
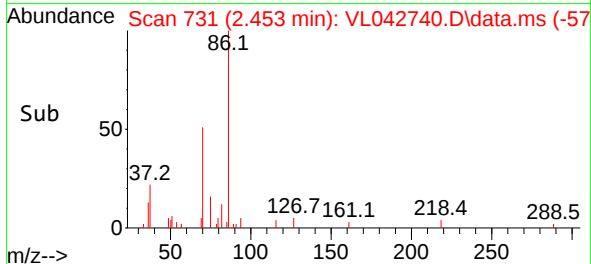
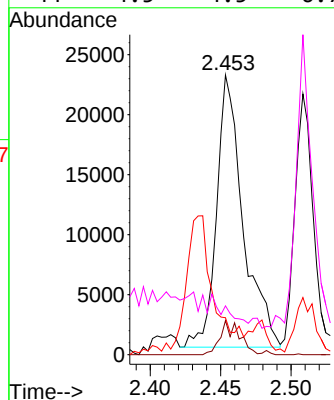
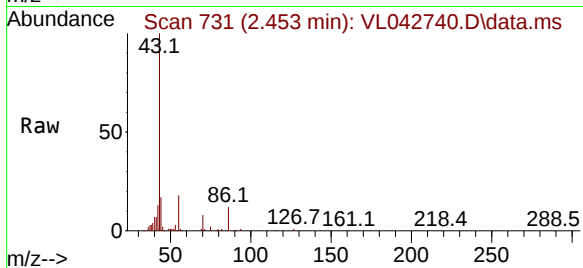


#23
Vinyl Acetate
Concen: 1.454 ppbv
RT: 2.453 min Scan# 71
Delta R.T. -0.007 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp: 29797

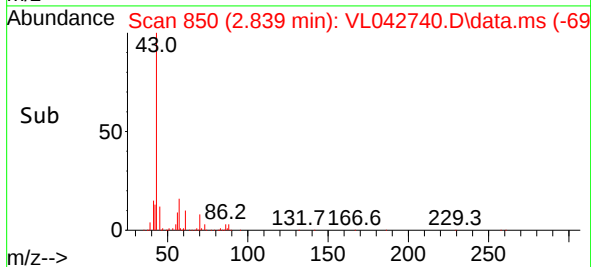
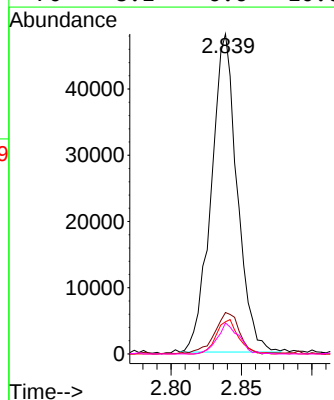
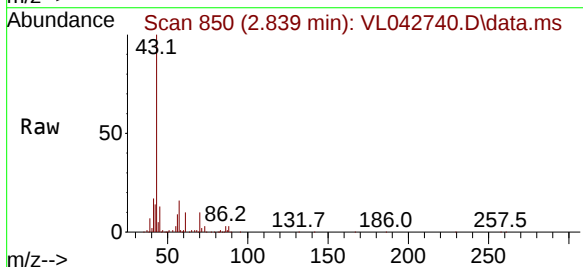
Ion	Ratio	Lower	Upper
43	100		
86	12.5	5.7	8.5#
42	11.5	7.9	11.9
44	4.5	4.5	6.7

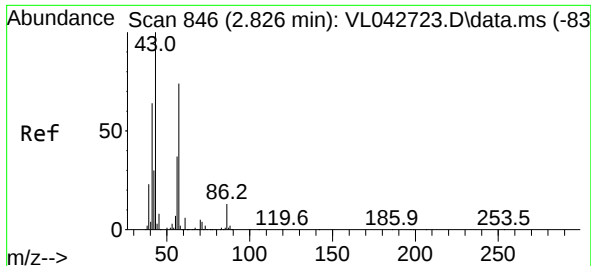


#25
Ethyl Acetate
Concen: 1.854 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.006 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

Tgt Ion: 43 Resp: 61523

Ion	Ratio	Lower	Upper
43	100		
45	13.4	7.8	11.6#
61	9.5	7.0	10.6
70	8.1	6.6	10.0

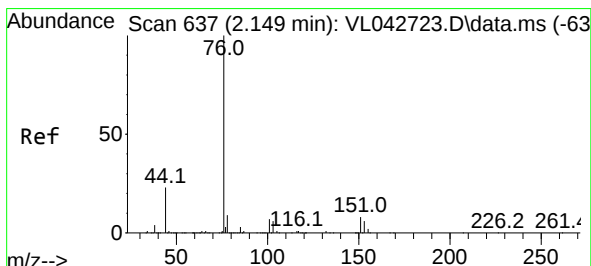
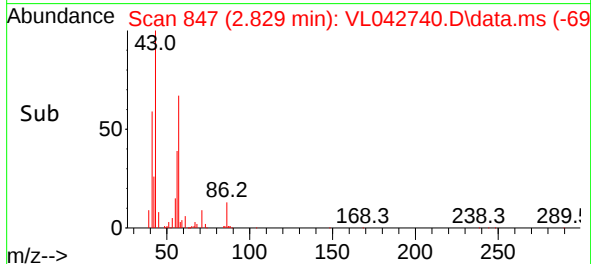
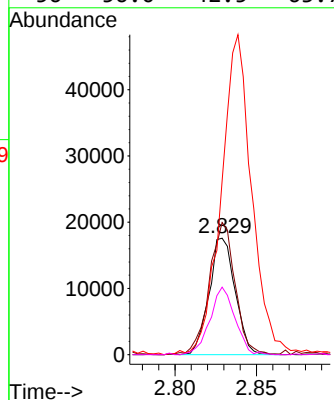
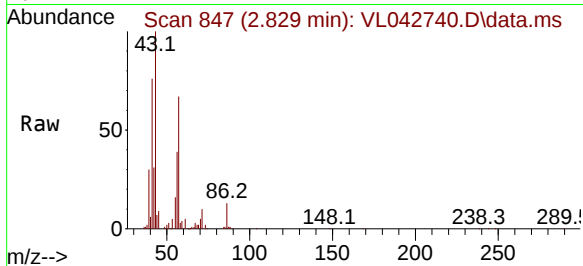




#26
Hexane
Concen: 1.344 ppbv
RT: 2.829 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

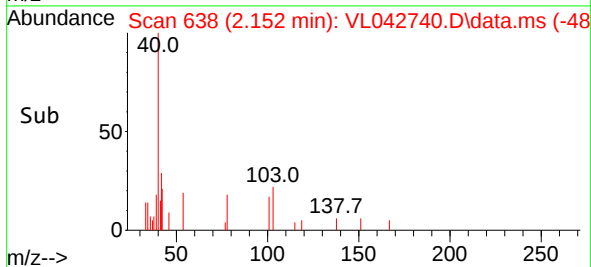
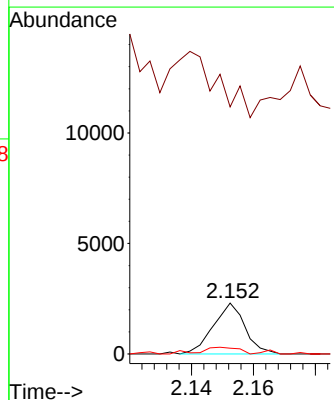
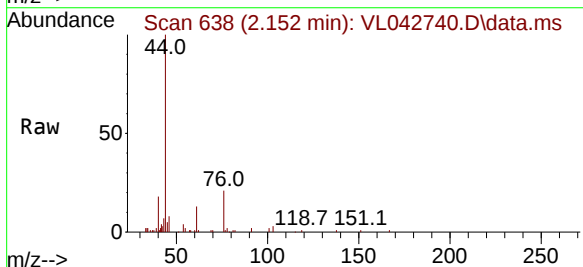
Instrument :
MSVOA_L
ClientSampleId :
IA1

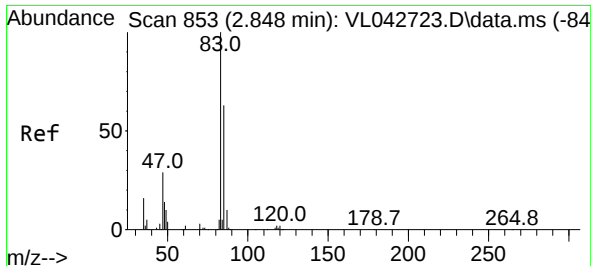
Tgt Ion: 57 Resp: 19564
Ion Ratio Lower Upper
57 100
41 113.2 77.3 115.9
43 326.8 182.3 273.5#
56 56.0 42.5 63.7



#27
Carbon Disulfide
Concen: 0.105 ppbv
RT: 2.152 min Scan# 638
Delta R.T. 0.003 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

Tgt Ion: 76 Resp: 1640
Ion Ratio Lower Upper
76 100
44 1654.6 18.8 28.2#
78 21.3 9.5 14.3#





#29

Chloroform

Concen: 0.081 ppbv

RT: 2.852 min Scan# 851

Delta R.T. 0.003 min

Lab File: VL042740.D

Acq: 22 Jul 2025 20:36

Instrument :

MSVOA_L

ClientSampleId :

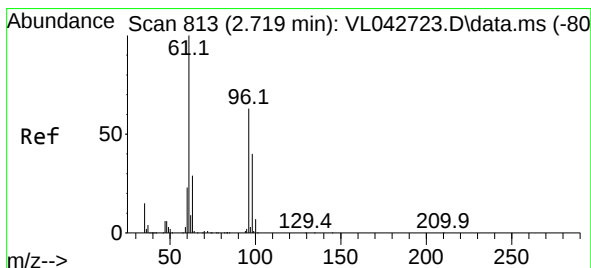
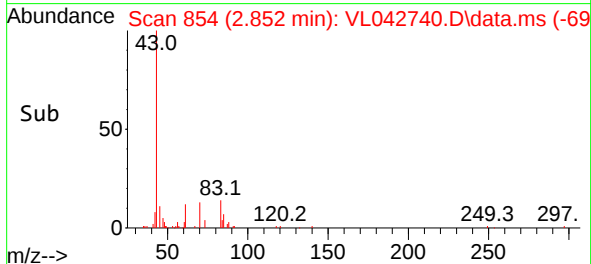
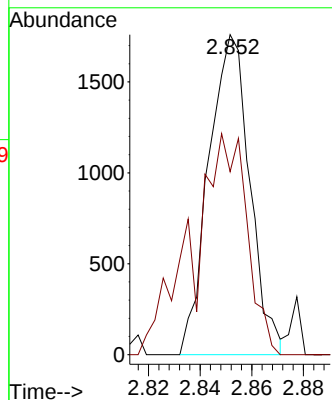
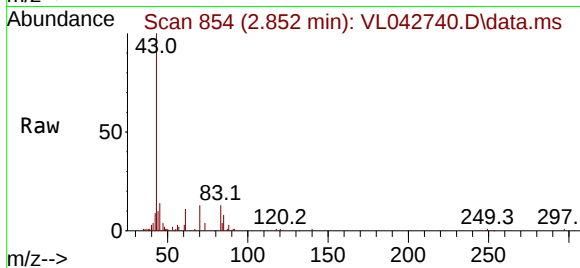
IA1

Tgt Ion: 83 Resp: 1945

Ion Ratio Lower Upper

83 100

85 57.2 50.9 76.3



#31

cis-1,2-Dichloroethene

Concen: 0.358 ppbv

RT: 2.842 min Scan# 851

Delta R.T. 0.123 min

Lab File: VL042740.D

Acq: 22 Jul 2025 20:36

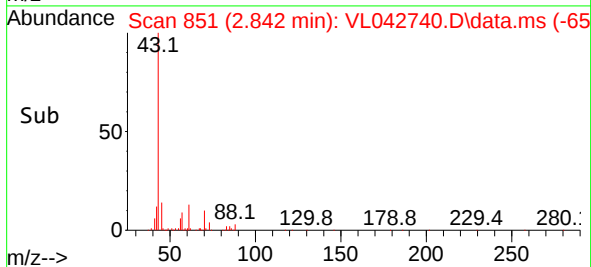
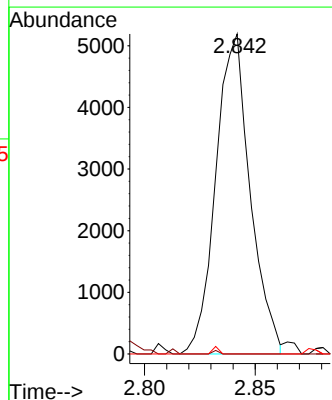
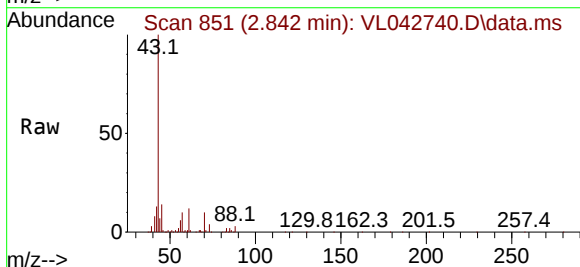
Tgt Ion: 61 Resp: 5611

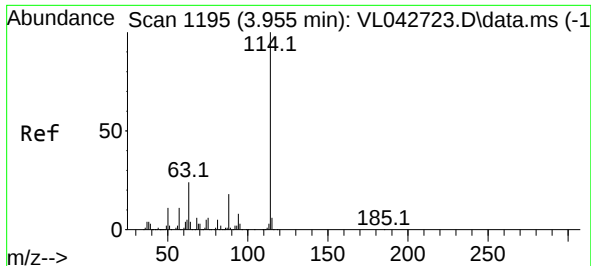
Ion Ratio Lower Upper

61 100

96 0.0 50.6 75.8#

98 0.0 32.2 48.2#

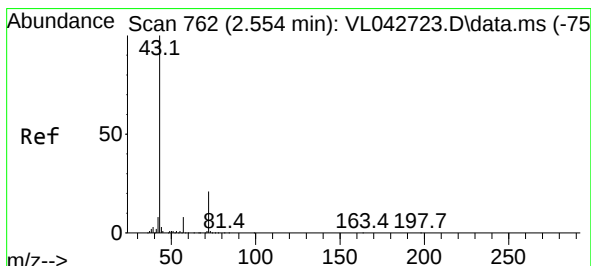
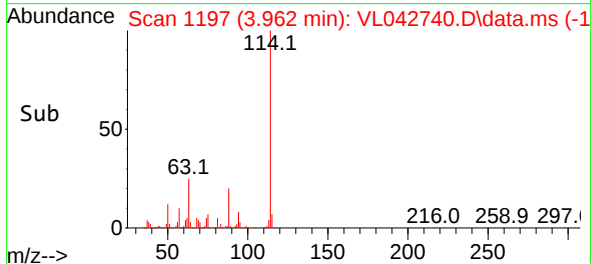
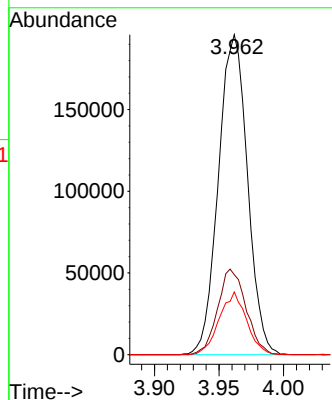
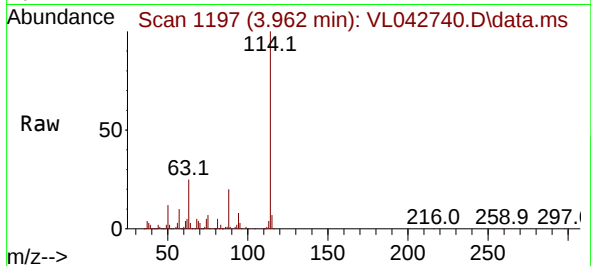




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.006 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

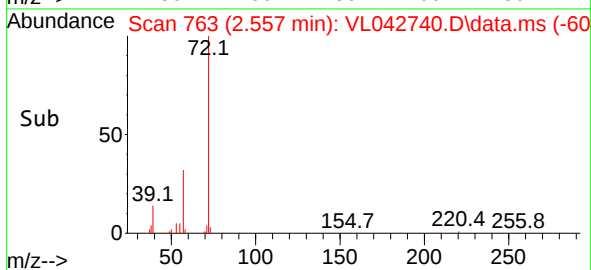
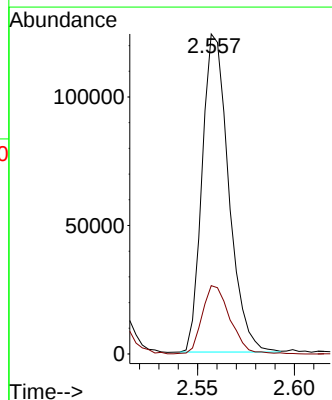
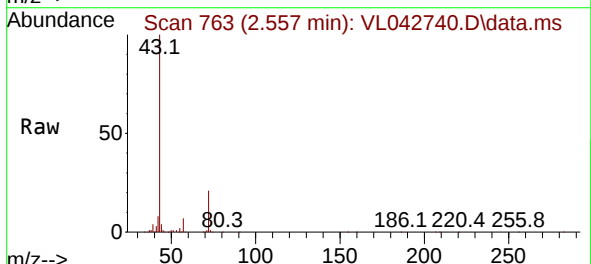
Instrument :
MSVOA_L
ClientSampleId :
IA1

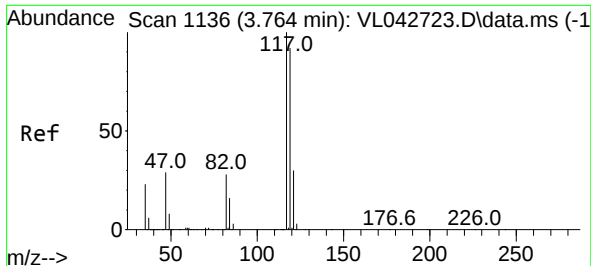
Tgt Ion:114 Resp: 306694
Ion Ratio Lower Upper
114 100
63 26.2 20.4 30.6
88 18.4 14.5 21.7



#34
2-Butanone
Concen: 5.593 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

Tgt Ion: 43 Resp: 118114
Ion Ratio Lower Upper
43 100
72 22.6 17.0 25.6

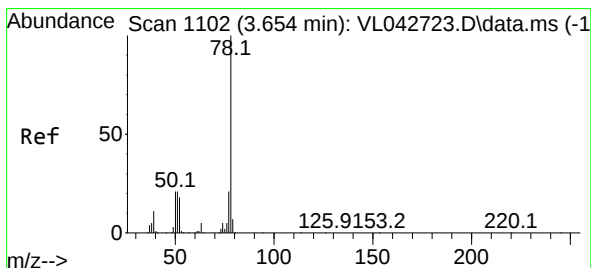
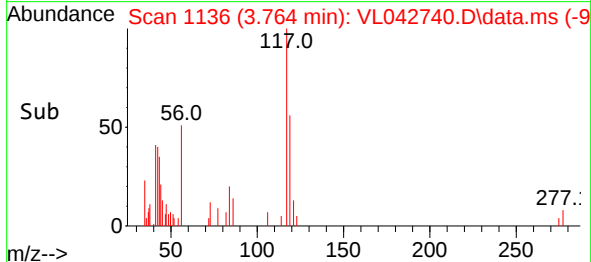
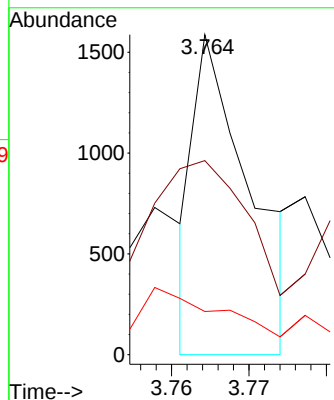
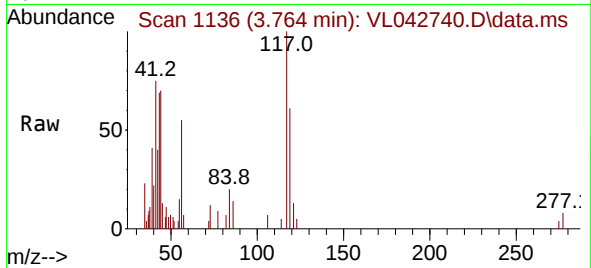




#35
Carbon Tetrachloride
Concen: 0.032 ppbv
RT: 3.764 min Scan# 1136
Delta R.T. -0.000 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

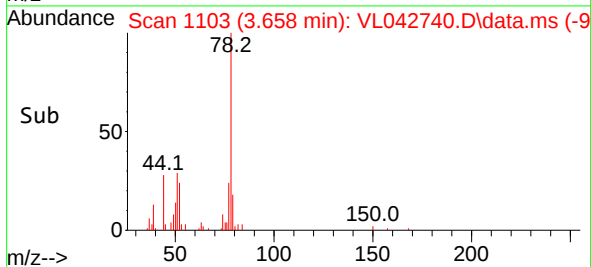
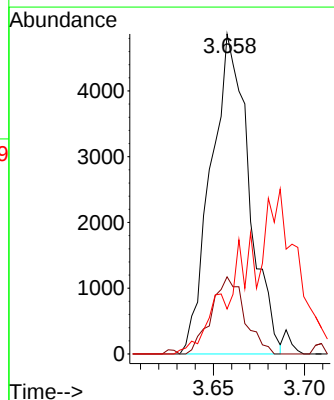
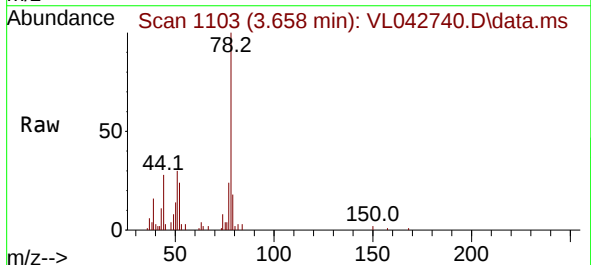
Instrument :
MSVOA_L
ClientSampleId :
IA1

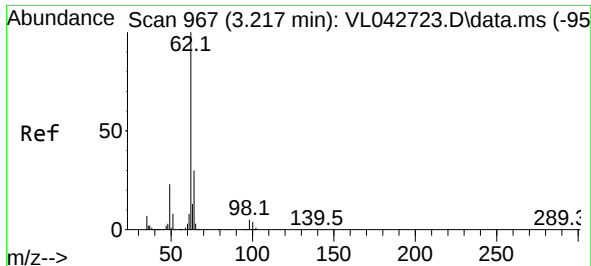
Tgt Ion:117 Resp: 801
Ion Ratio Lower Upper
117 100
119 71.3 73.7 110.5#
121 13.4 23.8 35.8#



#36
Benzene
Concen: 0.247 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

Tgt Ion: 78 Resp: 7046
Ion Ratio Lower Upper
78 100
77 24.1 17.0 25.4
50 12.8 16.9 25.3#

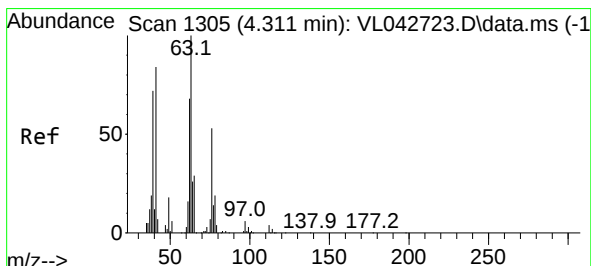
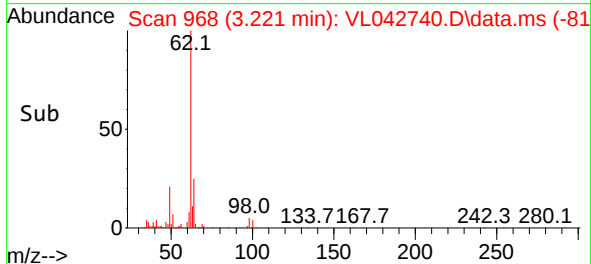
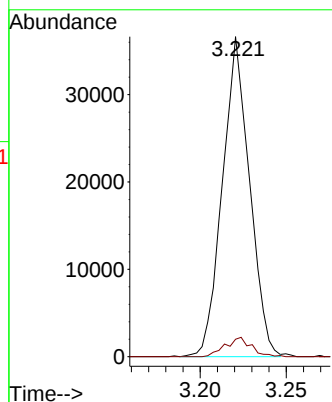
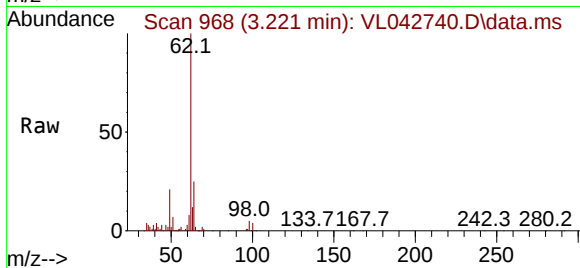




#37
1,2-Dichloroethane
Concen: 2.212 ppbv
RT: 3.221 min Scan# 90
Delta R.T. 0.003 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

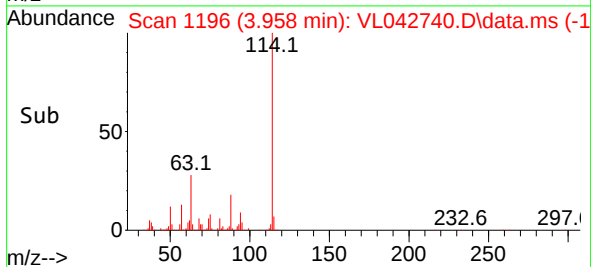
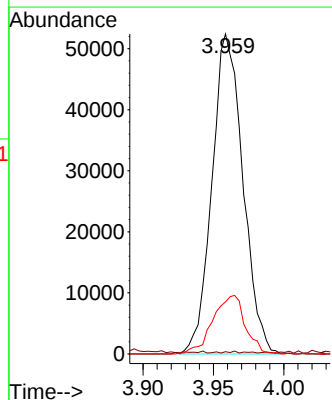
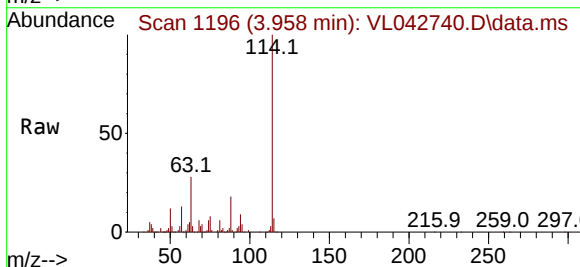
Instrument :
MSVOA_1
ClientSampleId :
IA1

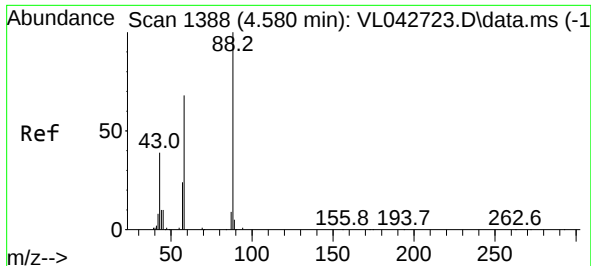
Tgt Ion: 62 Resp: 40202
Ion Ratio Lower Upper
62 100
98 5.8 4.8 7.2



#39
1,2-Dichloropropane
Concen: 7.550 ppbv
RT: 3.958 min Scan# 1196
Delta R.T. -0.353 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

Tgt Ion: 63 Resp: 80097
Ion Ratio Lower Upper
63 100
41 0.3 67.7 101.5#
62 16.2 54.1 81.1#

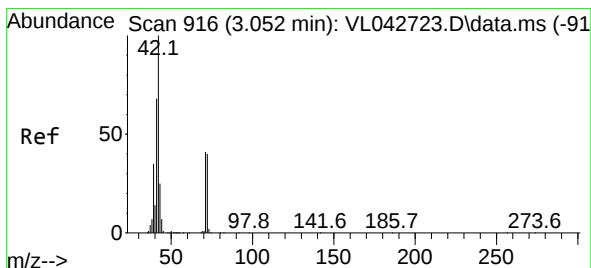
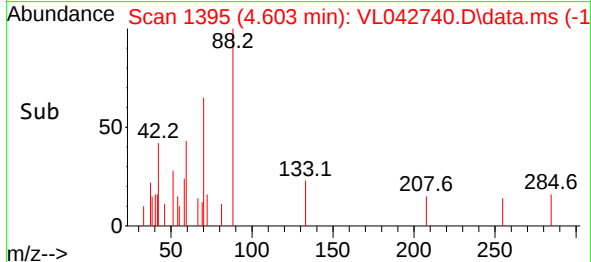
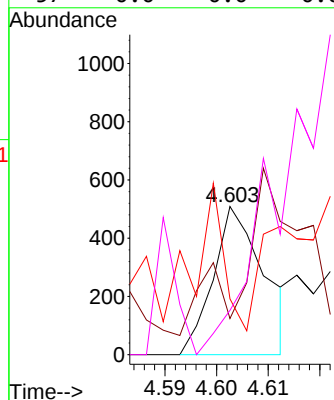
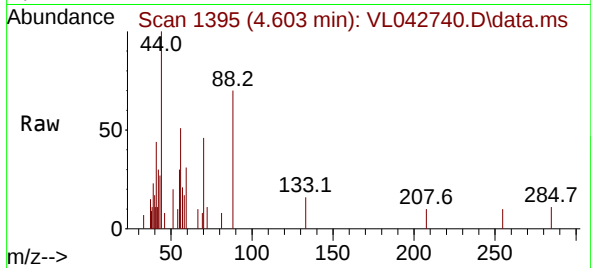




#40
1,4-Dioxane
Concen: 0.068 ppbv
RT: 4.603 min Scan# 11
Delta R.T. 0.023 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

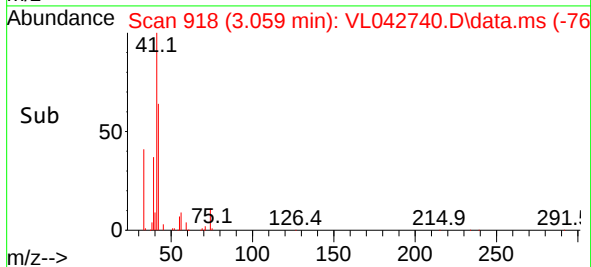
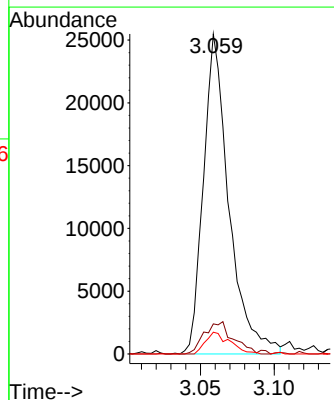
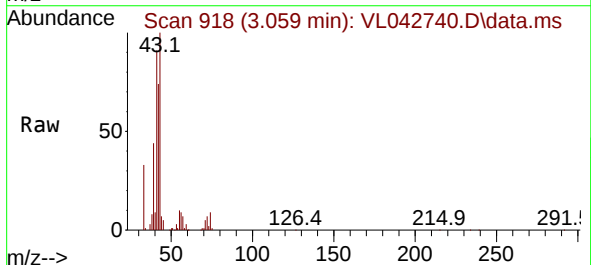
Instrument :
MSVOA_L
ClientSampleId :
IA1

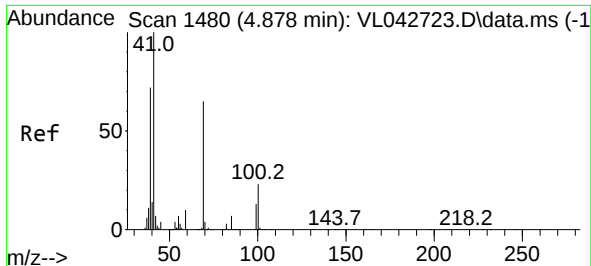
Tgt Ion: 88	Resp:	346	
Ion	Ratio	Lower	Upper
88	100		
58	0.0	59.8	89.8#
43	0.0	32.6	48.8#
57	0.0	0.0	0.0



#41
Tetrahydrofuran
Concen: 2.873 ppbv
RT: 3.059 min Scan# 918
Delta R.T. 0.006 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

Tgt Ion: 42	Resp:	30590	
Ion	Ratio	Lower	Upper
42	100		
72	12.1	32.2	48.2#
71	6.6	29.8	44.6#

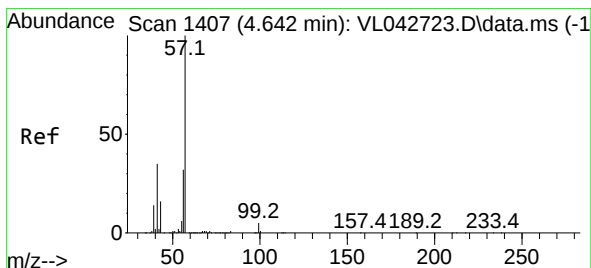
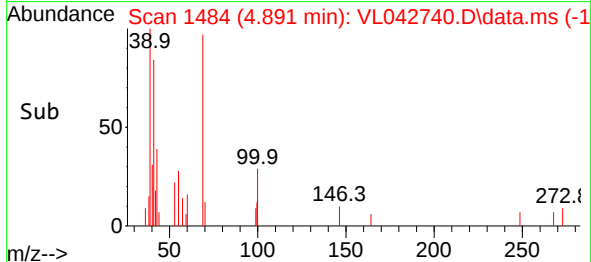
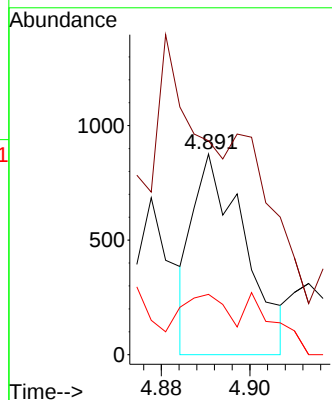
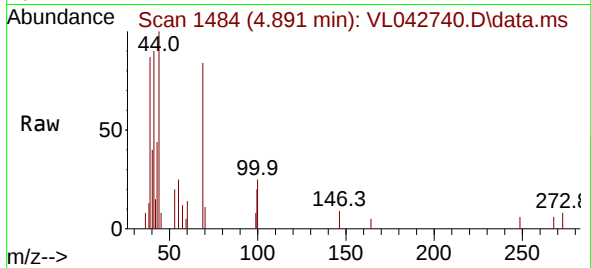




#43
Methyl Methacrylate
Concen: 0.065 ppbv
RT: 4.891 min Scan# 1410
Delta R.T. 0.013 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

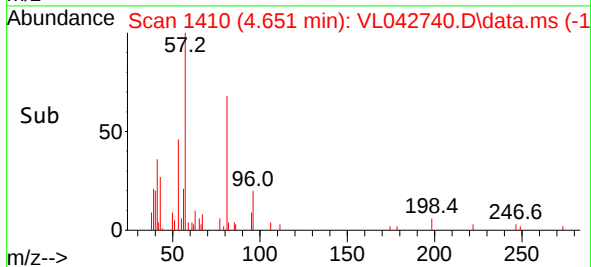
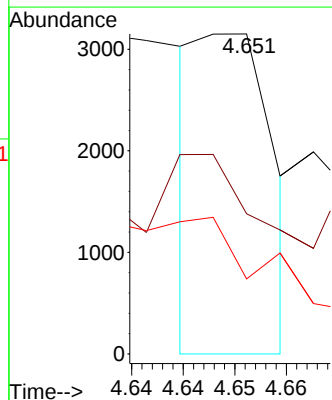
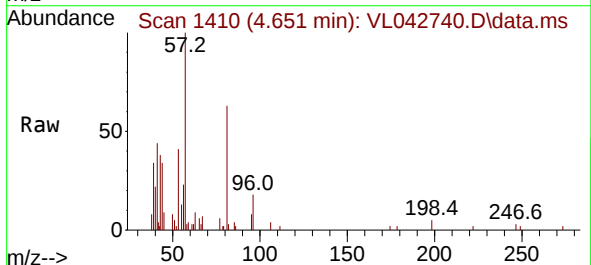
Instrument :
MSVOA_L
ClientSampleId :
IA1

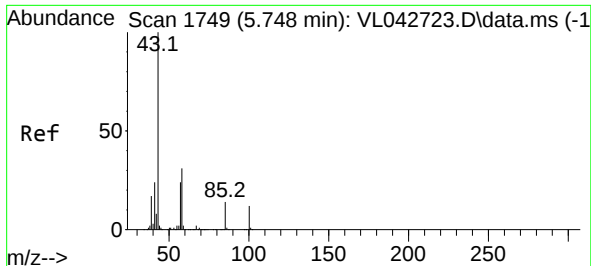
Tgt Ion: 69 Resp: 707
Ion Ratio Lower Upper
69 100
41 0.0 125.8 188.6#
100 0.0 29.9 44.9#



#44
2,2,4-Trimethylpentane
Concen: 0.033 ppbv
RT: 4.651 min Scan# 1410
Delta R.T. 0.010 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

Tgt Ion: 57 Resp: 1565
Ion Ratio Lower Upper
57 100
41 0.0 29.4 44.0#
56 0.0 26.1 39.1#

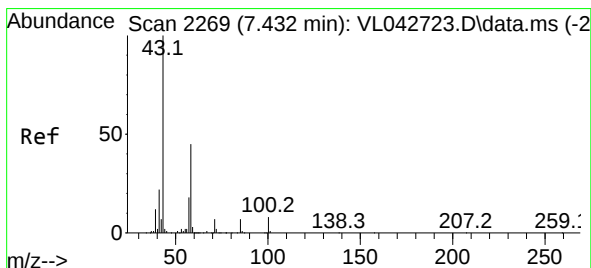
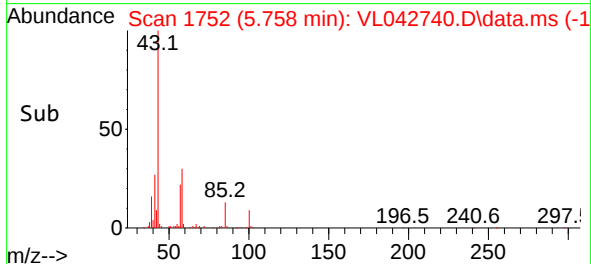
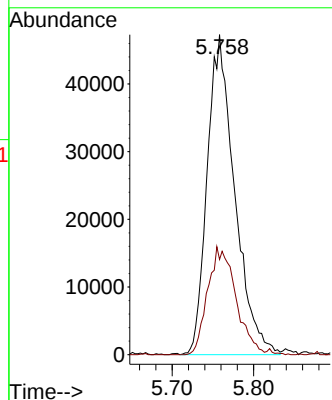
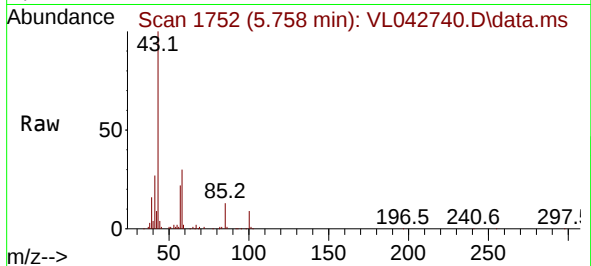




#50
4-Methyl-2-Pentanone
Concen: 4.002 ppbv
RT: 5.758 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

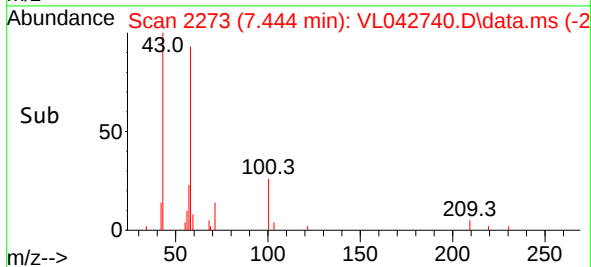
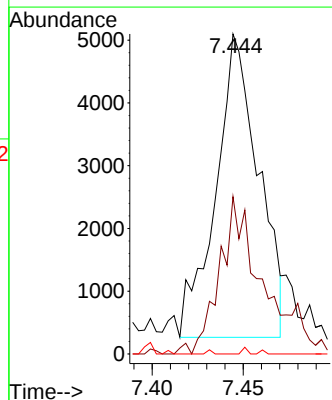
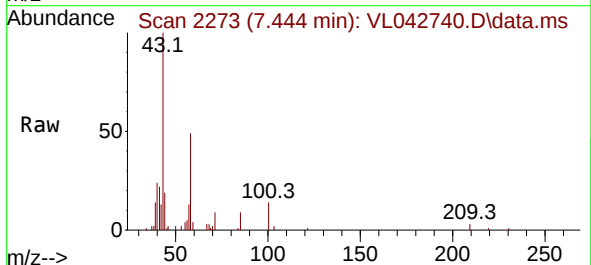
Instrument :
MSVOA_L
ClientSampleId :
IA1

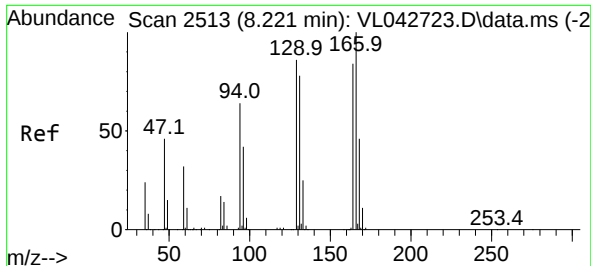
Tgt Ion: 43 Resp: 110761
Ion Ratio Lower Upper
43 100
58 35.0 27.6 41.4



#51
2-Hexanone
Concen: 0.357 ppbv
RT: 7.444 min Scan# 2273
Delta R.T. 0.013 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

Tgt Ion: 43 Resp: 7880
Ion Ratio Lower Upper
43 100
58 54.9 37.9 56.9
98 2.4 0.2 0.2#

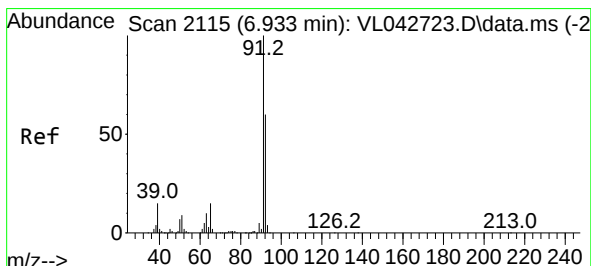
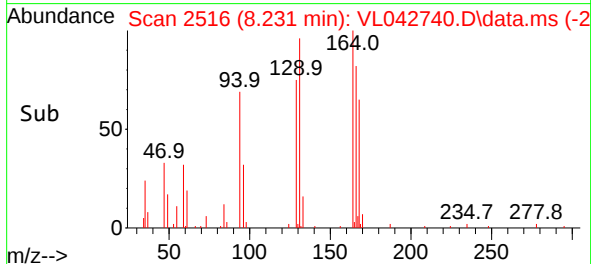
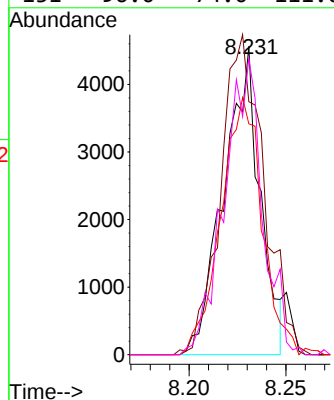
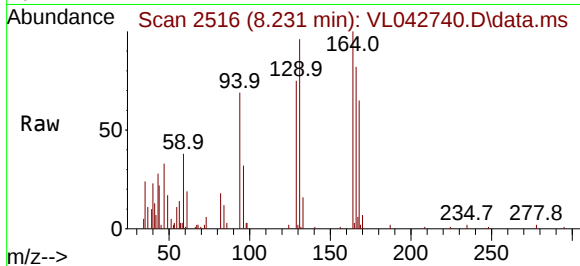




#52
Tetrachloroethene
Concen: 0.515 ppbv
RT: 8.231 min Scan# 2116
Delta R.T. 0.010 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

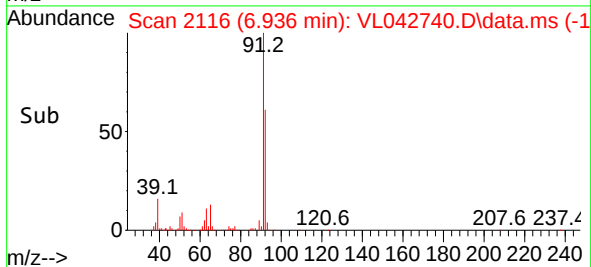
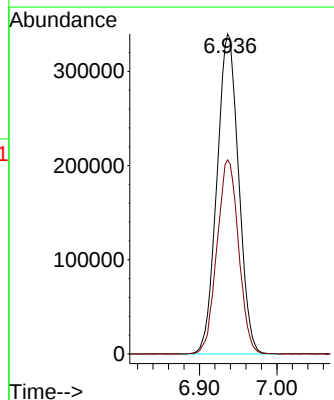
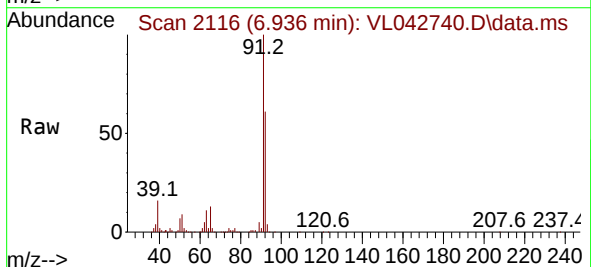
Instrument :
MSVOA_L
ClientSampleId :
IA1

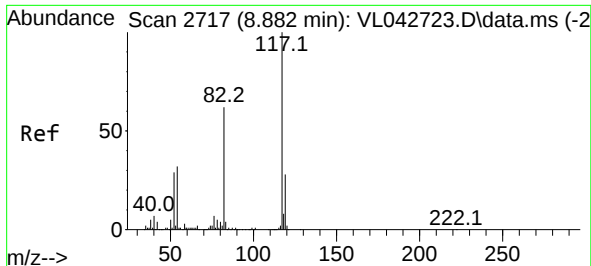
Tgt Ion:164 Resp: 5916
Ion Ratio Lower Upper
164 100
166 80.5 95.1 142.7#
129 74.9 81.9 122.9#
131 96.0 74.0 111.0



#53
Toluene
Concen: 20.596 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. 0.003 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

Tgt Ion: 91 Resp: 661664
Ion Ratio Lower Upper
91 100
92 60.4 48.2 72.4

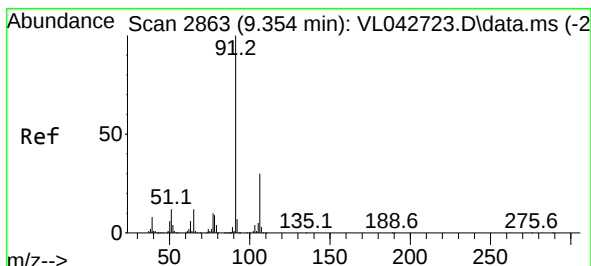
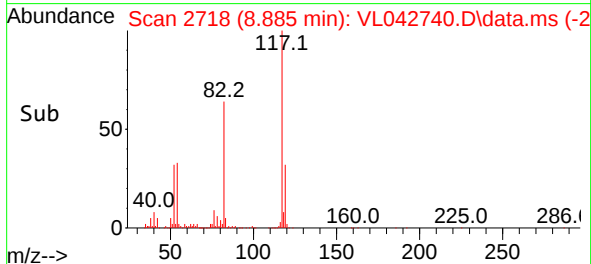
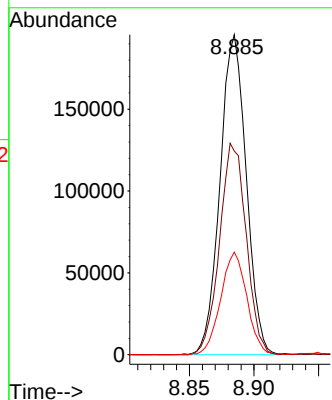
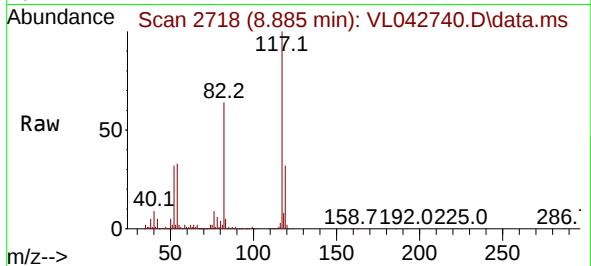




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

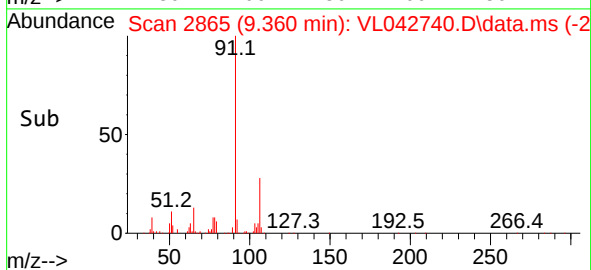
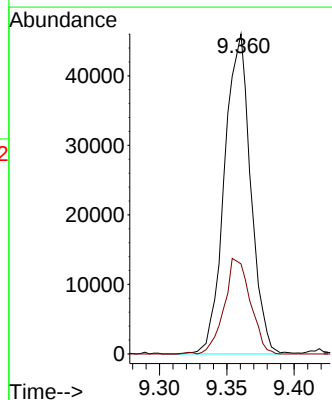
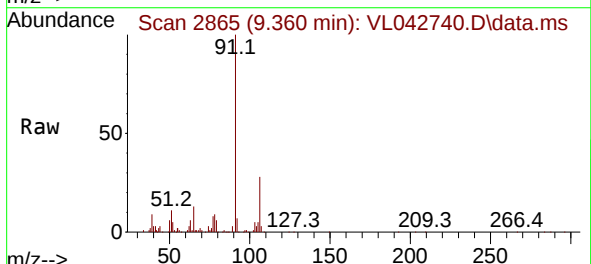
Instrument :
MSVOA_L
ClientSampleId :
IA1

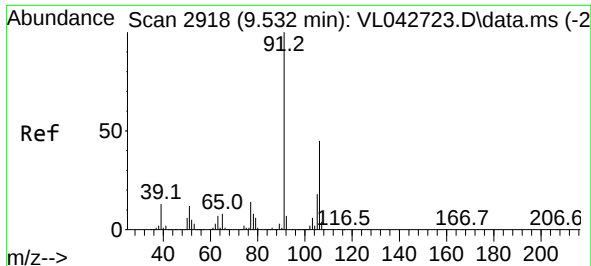
Tgt Ion:117 Resp: 276267
Ion Ratio Lower Upper
117 100
82 67.1 54.6 81.8
119 32.0 25.3 37.9



#58
Ethyl Benzene
Concen: 1.349 ppbv
RT: 9.360 min Scan# 2865
Delta R.T. 0.006 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

Tgt Ion: 91 Resp: 62250
Ion Ratio Lower Upper
91 100
106 28.2 23.7 35.5





#59

m/p-Xylene

Concen: 7.880 ppbv

RT: 9.532 min Scan# 2918

Delta R.T. -0.000 min

Lab File: VL042740.D

Acq: 22 Jul 2025 20:36

Instrument :

MSVOA_L

ClientSampleId :

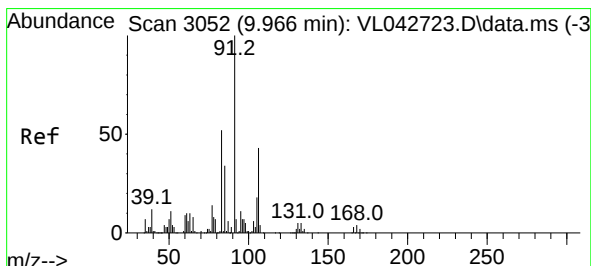
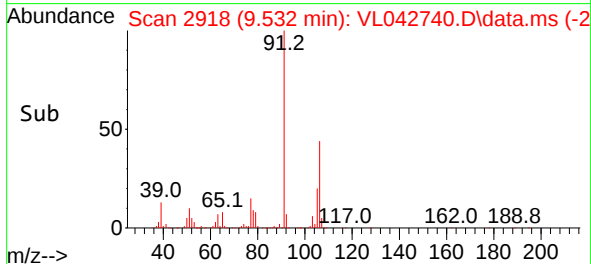
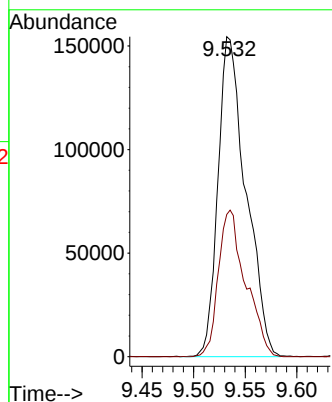
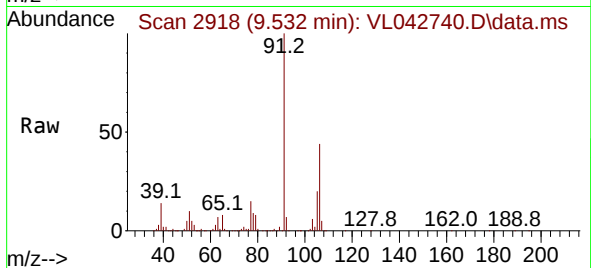
IA1

Tgt Ion: 91 Resp: 290932

Ion Ratio Lower Upper

91 100

106 44.7 37.3 55.9



#60

o-Xylene

Concen: 4.483 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. -0.000 min

Lab File: VL042740.D

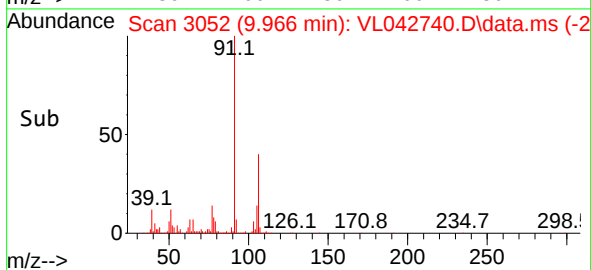
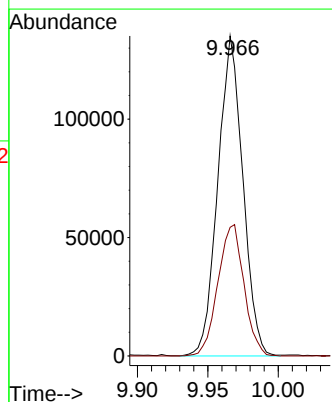
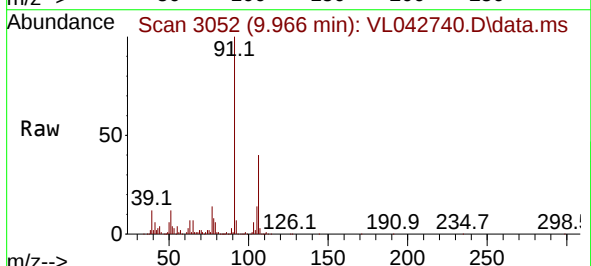
Acq: 22 Jul 2025 20:36

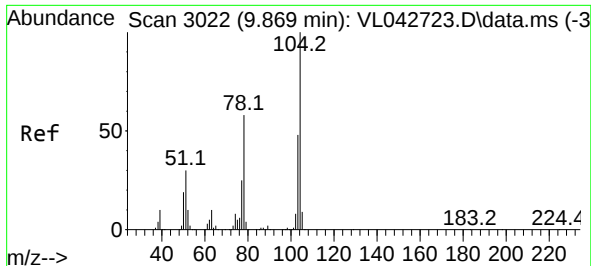
Tgt Ion: 91 Resp: 167095

Ion Ratio Lower Upper

91 100

106 42.7 21.4 64.3

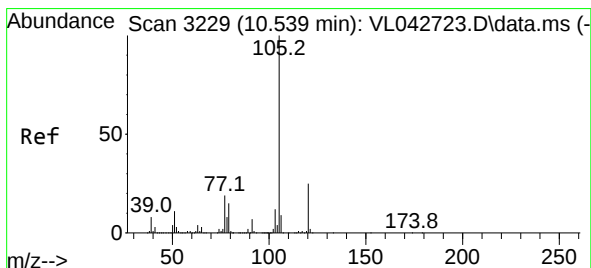
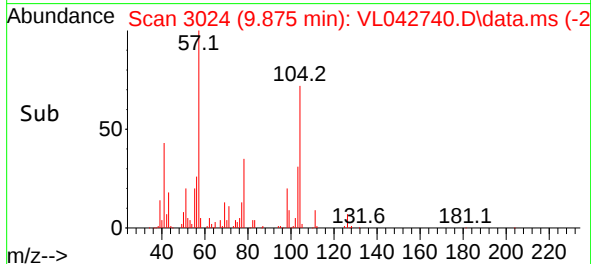
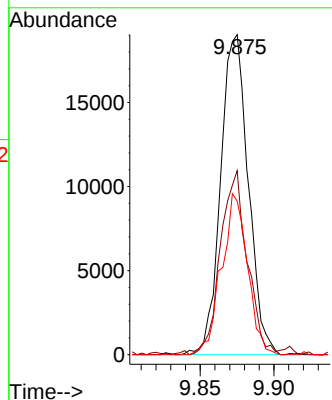
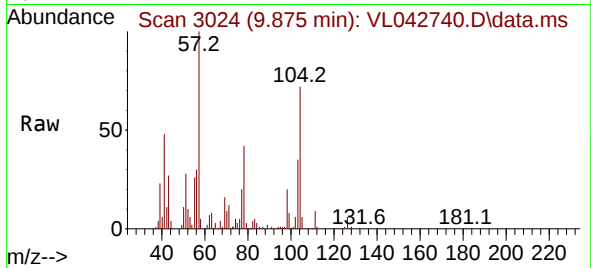




#61
Styrene
Concen: 1.547 ppbv
RT: 9.875 min Scan# 3022
Delta R.T. 0.006 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

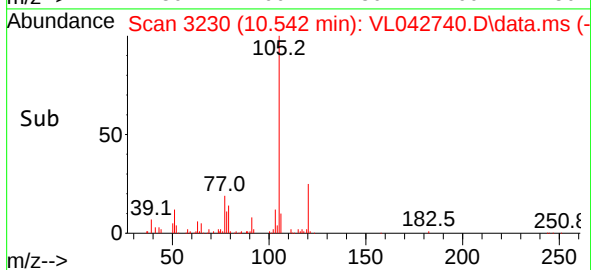
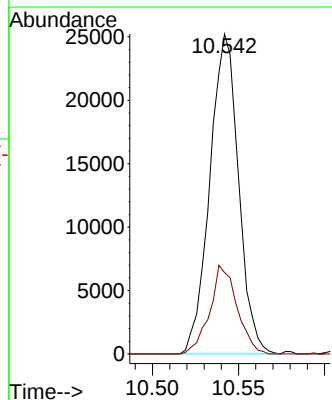
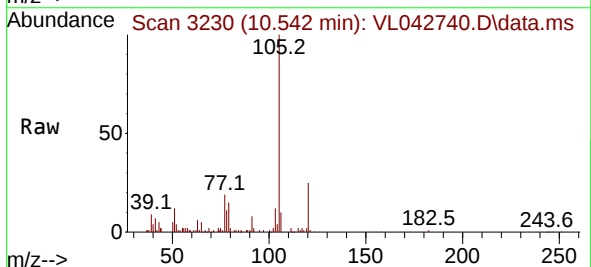
Instrument :
MSVOA_L
ClientSampleId :
IA1

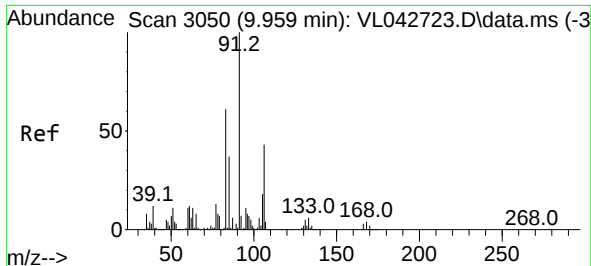
Tgt Ion:104 Resp: 24847
Ion Ratio Lower Upper
104 100
78 57.2 43.4 65.2
103 47.3 37.8 56.6



#62
Isopropylbenzene
Concen: 0.528 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.003 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

Tgt Ion:105 Resp: 29256
Ion Ratio Lower Upper
105 100
120 26.3 20.2 30.2

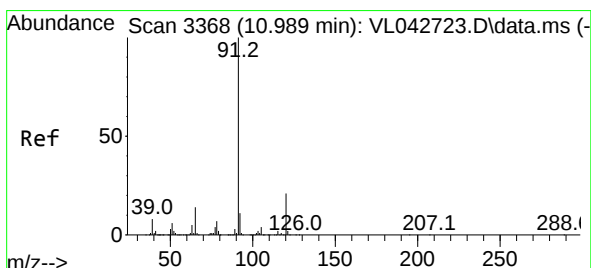
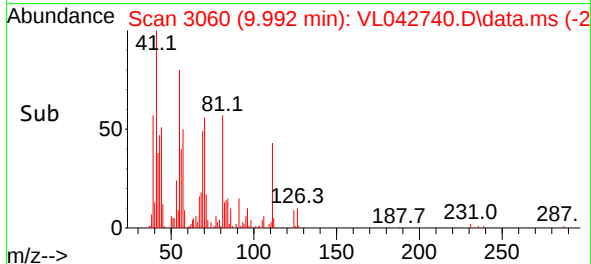
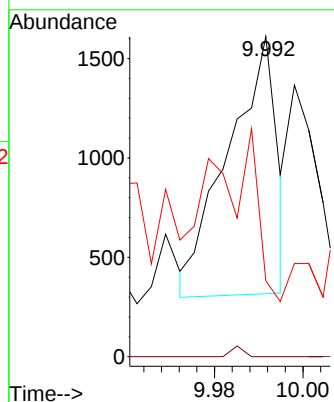
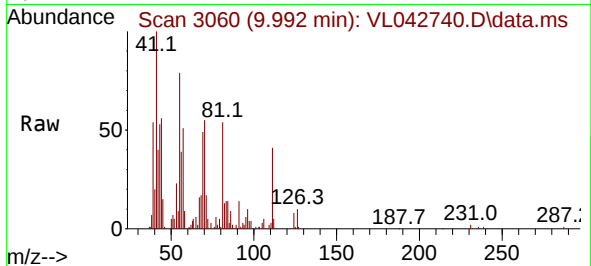




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.047 ppbv
 RT: 9.992 min Scan# 3050
 Delta R.T. 0.032 min
 Lab File: VL042740.D
 Acq: 22 Jul 2025 20:36

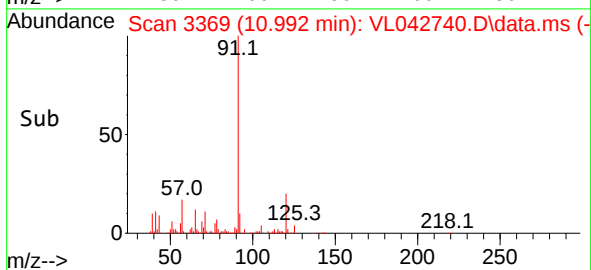
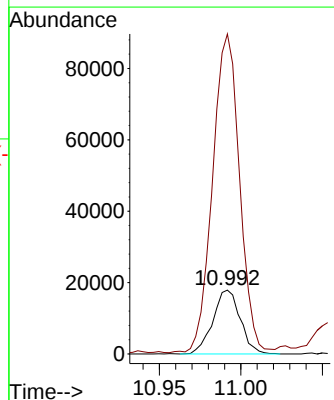
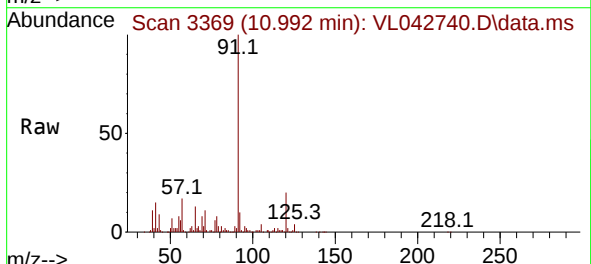
Instrument :
 MSVOA_1
 ClientSampleId :
 1A1

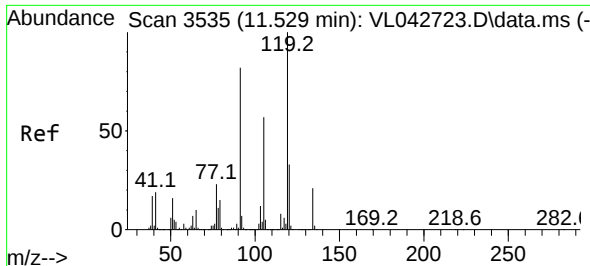
Tgt Ion: 83 Resp: 992
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.2 15.6#
 85 0.0 32.1 96.5#



#64
 n-propylbenzene
 Concen: 1.493 ppbv
 RT: 10.992 min Scan# 3369
 Delta R.T. 0.003 min
 Lab File: VL042740.D
 Acq: 22 Jul 2025 20:36

Tgt Ion: 120 Resp: 20874
 Ion Ratio Lower Upper
 120 100
 91 504.7 377.4 566.0

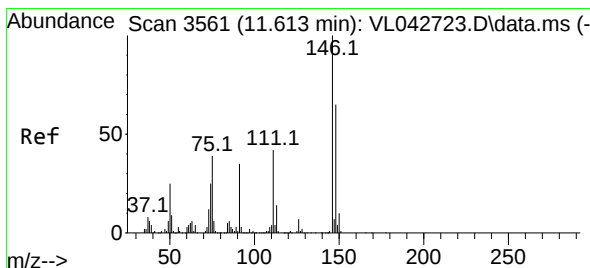
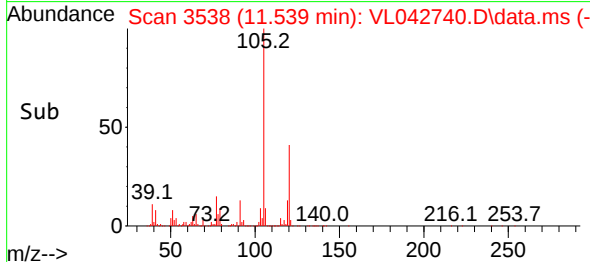
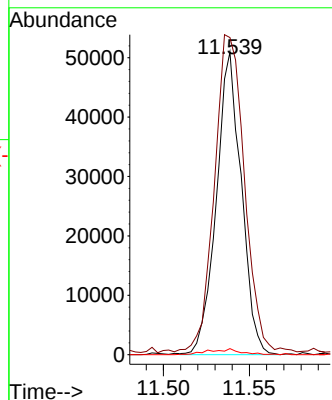
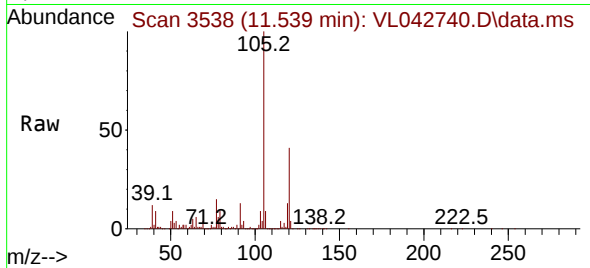




#65
tert-Butylbenzene
Concen: 1.037 ppbv
RT: 11.539 min Scan# 3537
Delta R.T. 0.010 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

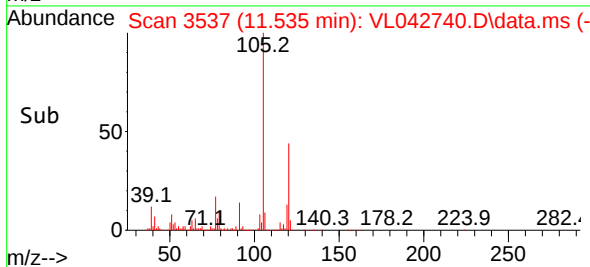
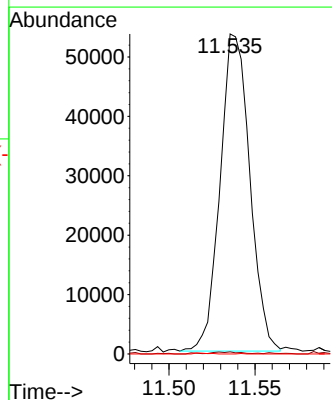
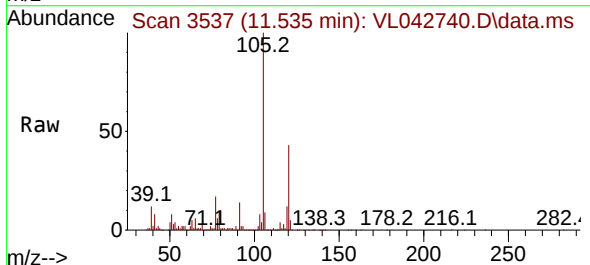
Instrument :
MSVOA_L
ClientSampleId :
IA1

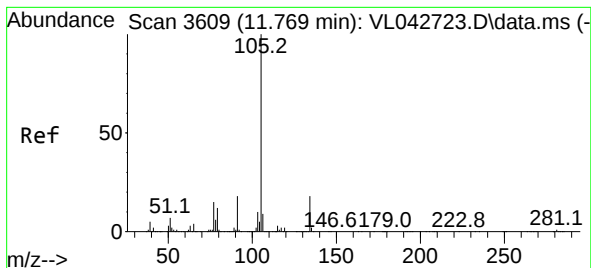
Tgt Ion:119 Resp: 51429
Ion Ratio Lower Upper
119 100
91 129.6 66.5 99.7#
134 2.6 16.7 25.1#



#66
Benzyl Chloride
Concen: 13.603 ppbv
RT: 11.535 min Scan# 3537
Delta R.T. -0.078 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

Tgt Ion: 91 Resp: 64164
Ion Ratio Lower Upper
91 100
126 0.7 15.0 22.4#
128 0.2 5.0 7.6#

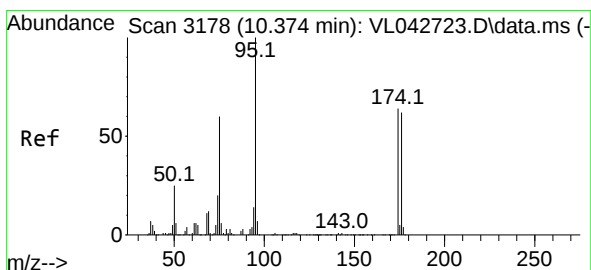
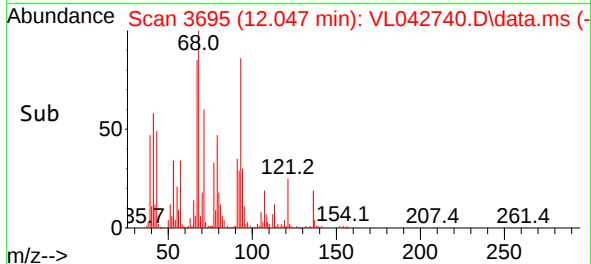
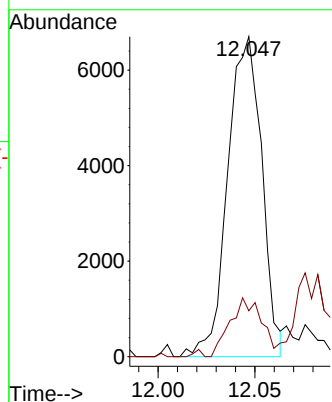
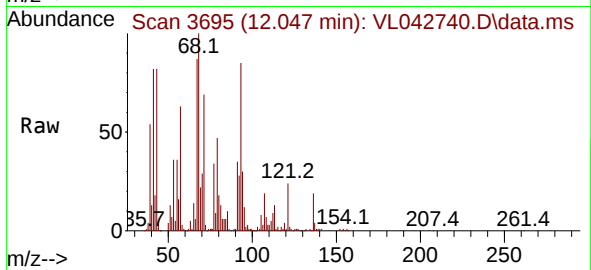




#67
 sec-Butylbenzene
 Concen: 0.121 ppbv
 RT: 12.047 min Scan# 3179
 Delta R.T. 0.278 min
 Lab File: VL042740.D
 Acq: 22 Jul 2025 20:36

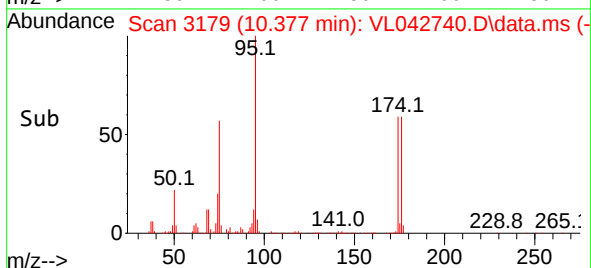
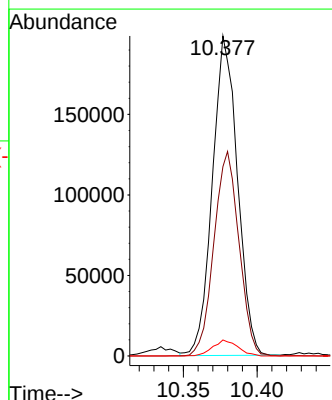
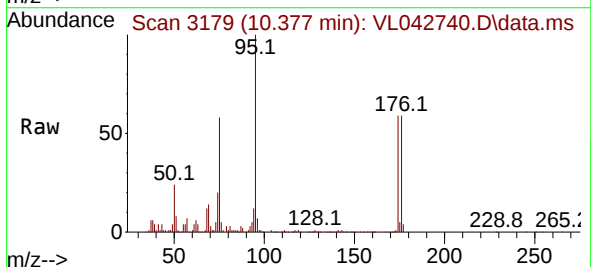
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

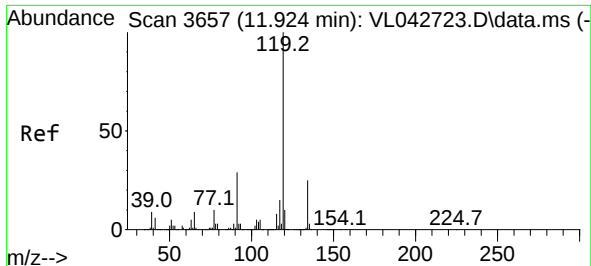
Tgt Ion:105 Resp: 8220
 Ion Ratio Lower Upper
 105 100
 134 17.6 15.0 22.4



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.517 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. 0.003 min
 Lab File: VL042740.D
 Acq: 22 Jul 2025 20:36

Tgt Ion: 95 Resp: 234821
 Ion Ratio Lower Upper
 95 100
 174 63.9 51.4 77.2
 175 5.0 4.2 6.4





#69

p-Isopropyltoluene

Concen: 1.732 ppbv

RT: 11.927 min Scan# 3658

Delta R.T. 0.003 min

Lab File: VL042740.D

Acq: 22 Jul 2025 20:36

Instrument :

MSVOA_L

ClientSampleId :

IA1

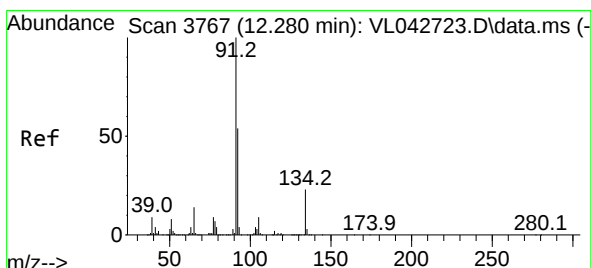
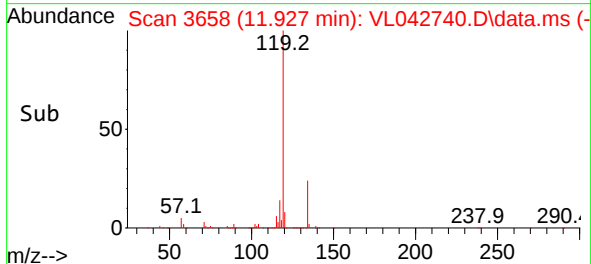
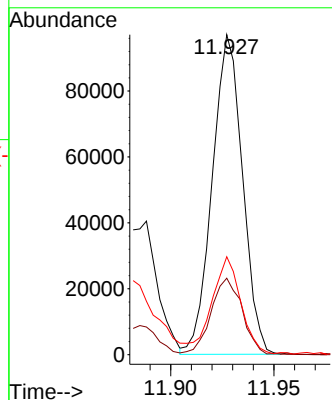
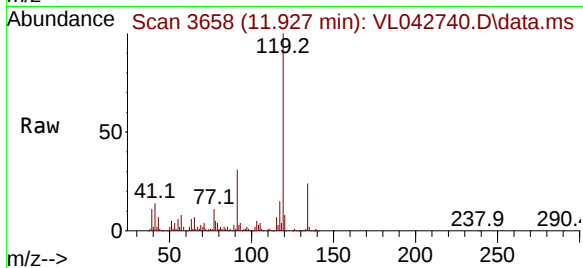
Tgt Ion:119 Resp: 98817

Ion Ratio Lower Upper

119 100

134 24.8 19.8 29.6

91 30.4 23.9 35.9



#70

n-Butylbenzene

Concen: 0.710 ppbv

RT: 12.283 min Scan# 3768

Delta R.T. 0.003 min

Lab File: VL042740.D

Acq: 22 Jul 2025 20:36

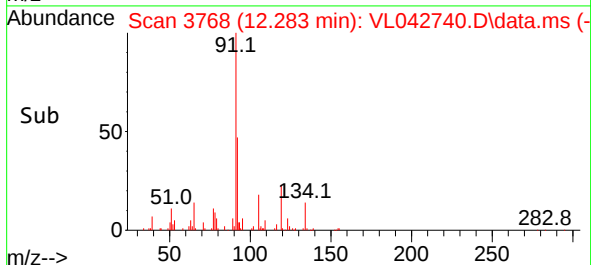
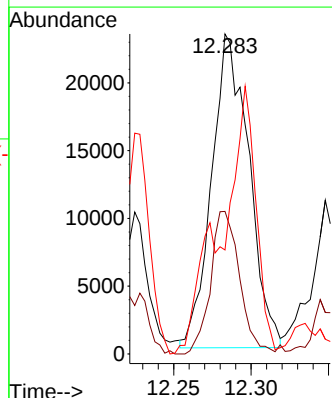
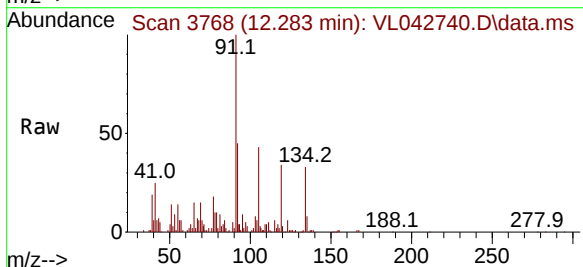
Tgt Ion: 91 Resp: 38695

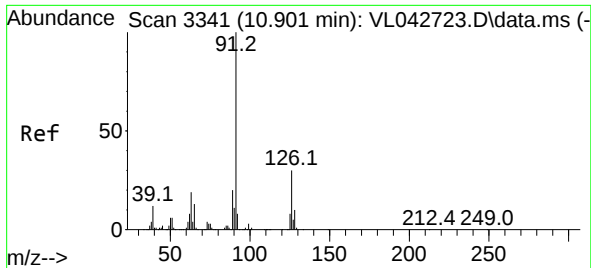
Ion Ratio Lower Upper

91 100

92 36.2 43.2 64.8#

134 79.5 19.0 28.6#

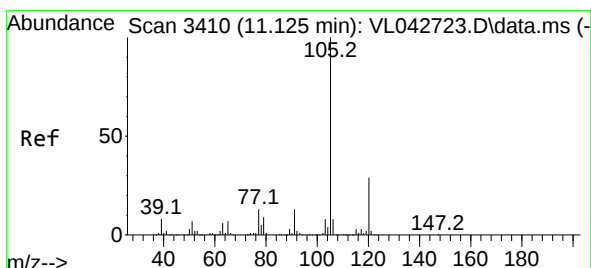
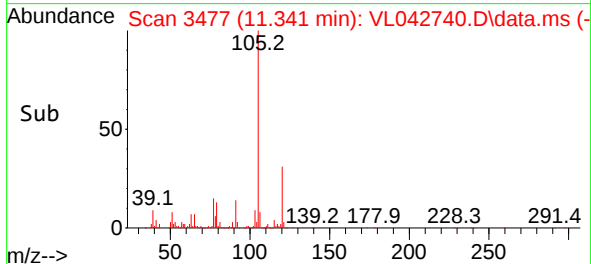
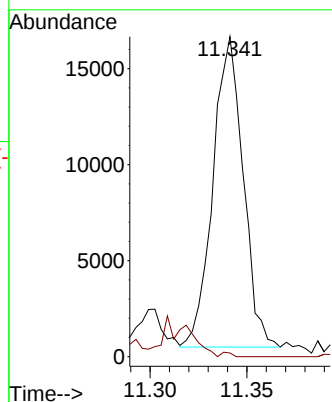
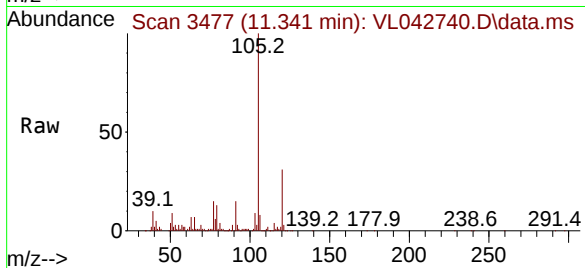




#71
2-Chlorotoluene
Concen: 0.417 ppbv
RT: 11.341 min Scan# 3411
Delta R.T. 0.440 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

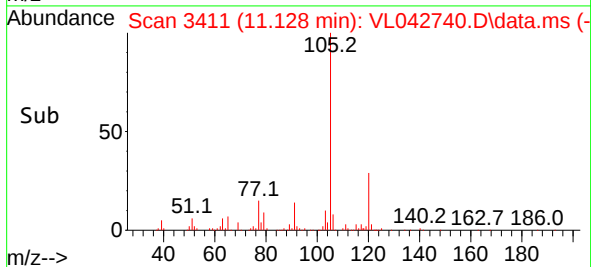
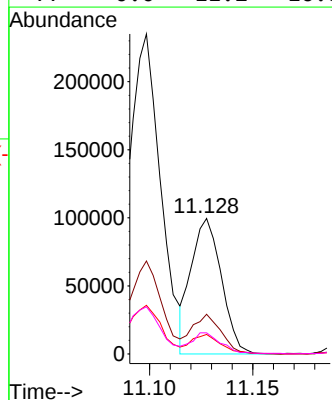
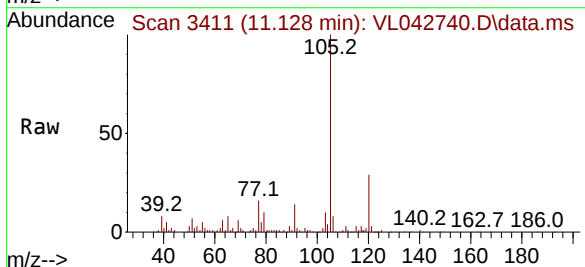
Instrument :
MSVOA_L
ClientSampleId :
IA1

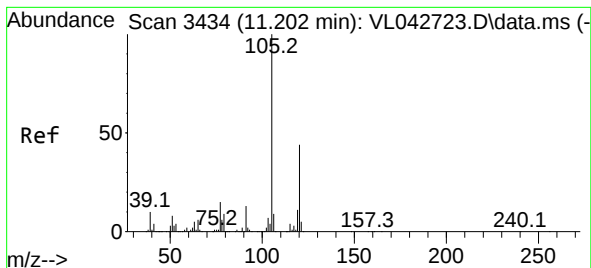
Tgt Ion: 91 Resp: 17535
Ion Ratio Lower Upper
91 100
126 20.6 11.6 46.4



#72
4-Ethyltoluene
Concen: 2.283 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.003 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

Tgt Ion: 105 Resp: 101468
Ion Ratio Lower Upper
105 100
120 0.0 23.4 35.0#
91 0.0 10.6 15.8#
77 0.0 11.2 16.8#





#73

1,3,5-Trimethylbenzene

Concen: 4.574 ppbv

RT: 11.205 min Scan# 3434

Delta R.T. 0.003 min

Lab File: VL042740.D

Acq: 22 Jul 2025 20:36

Instrument :

MSVOA_L

ClientSampleId :

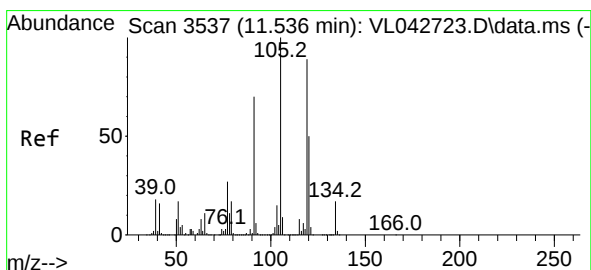
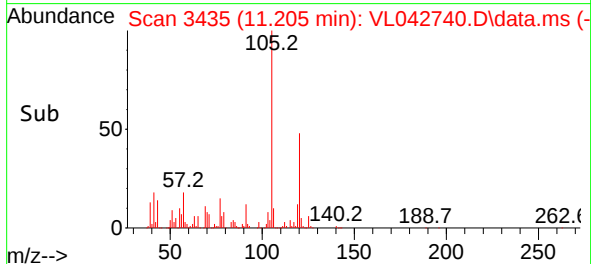
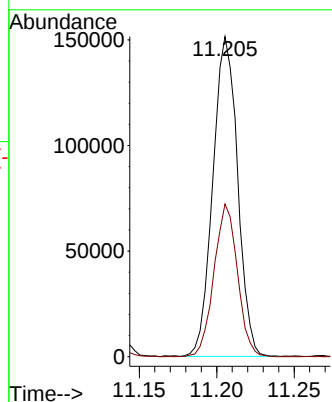
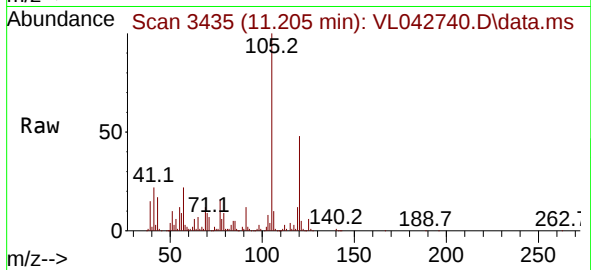
IA1

Tgt Ion:105 Resp: 168163

Ion Ratio Lower Upper

105 100

120 47.8 35.2 52.8



#74

1,2,4-Trimethylbenzene

Concen: 11.022 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.003 min

Lab File: VL042740.D

Acq: 22 Jul 2025 20:36

Tgt Ion:105 Resp: 444602

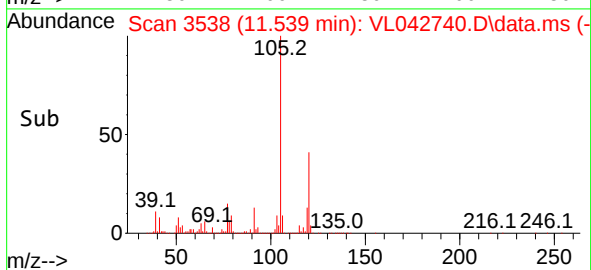
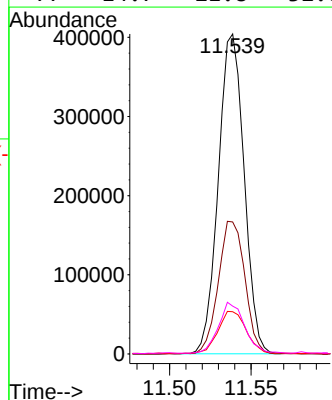
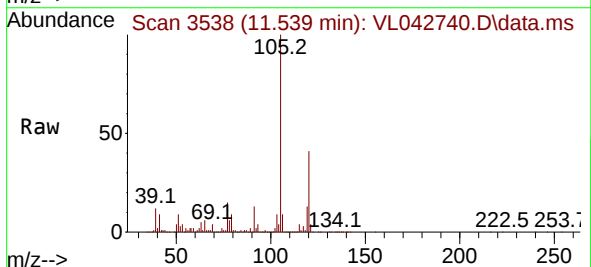
Ion Ratio Lower Upper

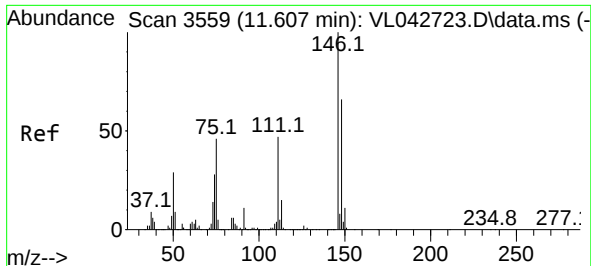
105 100

120 41.2 39.9 59.9

91 13.1 56.5 84.7#

77 14.7 21.8 32.6#

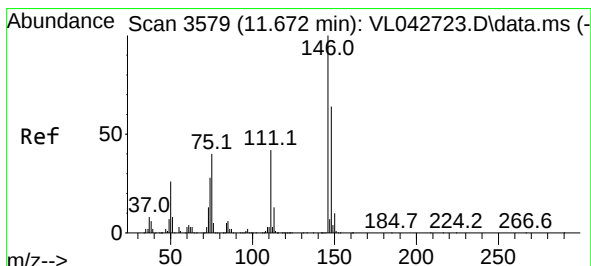
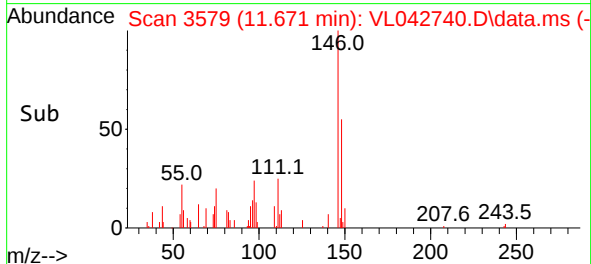
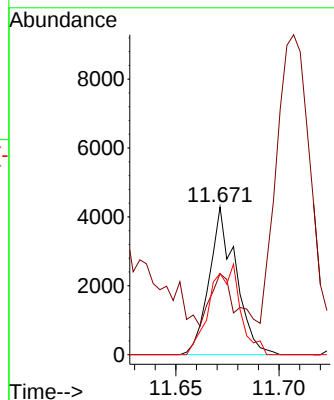
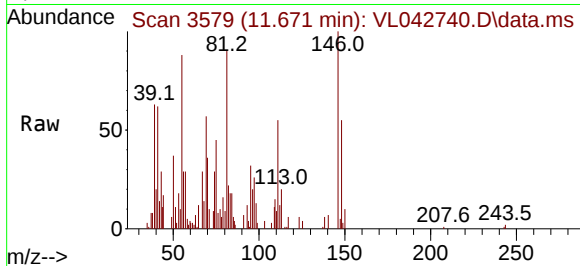




#75
1,3-Dichlorobenzene
Concen: 0.143 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. 0.065 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

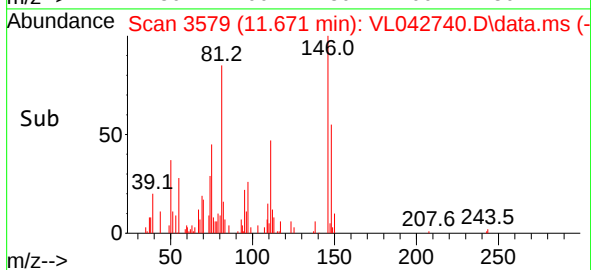
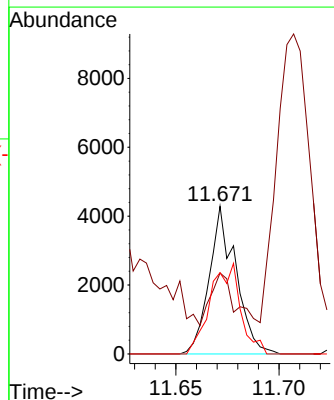
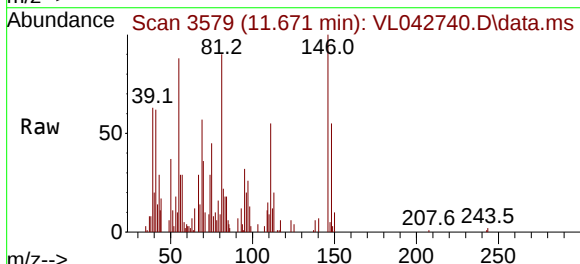
Instrument :
MSVOA_L
ClientSampleId :
IA1

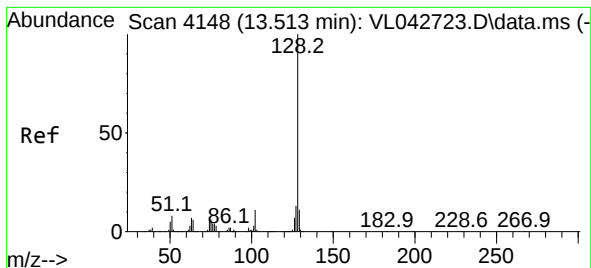
Tgt Ion:146 Resp: 3848
Ion Ratio Lower Upper
146 100
111 325.8 23.5 70.5#
148 69.5 32.6 98.0



#76
1,4-Dichlorobenzene
Concen: 0.147 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

Tgt Ion:146 Resp: 3848
Ion Ratio Lower Upper
146 100
111 323.6 22.1 66.1#
148 69.5 32.1 96.5





#79

Naphthalene

Concen: 0.789 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. -0.000 min

Lab File: VL042740.D

Acq: 22 Jul 2025 20:36

Instrument :

MSVOA_L

ClientSampleId :

IA1

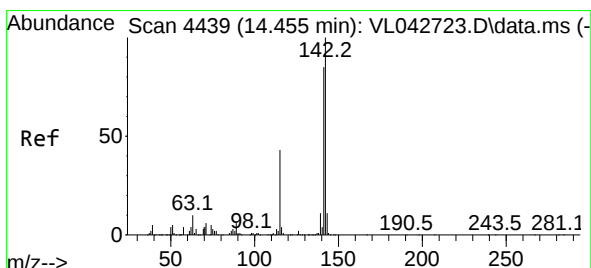
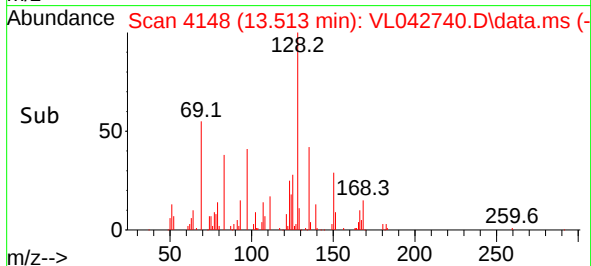
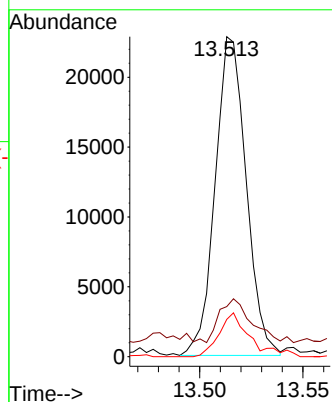
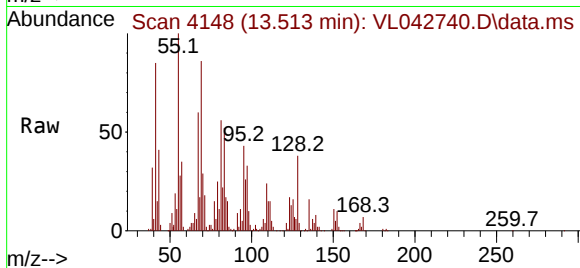
Tgt Ion:128 Resp: 23811

Ion Ratio Lower Upper

128 100

127 10.8 10.3 15.5

129 11.7 8.6 13.0



#80

Naphthalene,2-methyl-

Concen: 0.286 ppbv

RT: 14.465 min Scan# 4442

Delta R.T. 0.010 min

Lab File: VL042740.D

Acq: 22 Jul 2025 20:36

Tgt Ion:142 Resp: 2842

Ion Ratio Lower Upper

142 100

141 118.6 65.6 98.4#

115 105.0 31.7 47.5#

