

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042861.D
 Acq On : 13 Aug 2025 20:49
 Operator : SY/MD
 Sample : Q2834-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 14 02:22:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	126603	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	371881	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	316310	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	247433	10.430	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.300%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	7873	0.424	ppbv	98
3) Chlorodifluoromethane	1.479	51	17116	0.835	ppbv	92
4) Chloromethane	1.534	50	3451	0.461	ppbv	95
6) Bromomethane	1.667	94	141	0.048	ppbv #	73
7) Chloroethane	1.709	64	60	0.021	ppbv #	18
9) Propene	1.489	41	7453	0.841	ppbv	89
10) Heptane	5.001	43	5520	0.233	ppbv #	83
11) Trichlorofluoromethane	1.884	101	4312	0.236	ppbv	85
12) 1,1,2-Trichlorotrifluo...	2.149	101	746	0.051	ppbv	89
13) Ethanol	1.729	45	59666	73.674	ppbv	94
15) Acetone	1.842	43	492169	29.388	ppbv	99
16) 1,3-Butadiene	1.625	39	5218	0.687	ppbv #	10
17) tert-Butyl alcohol	2.052	59	4433	0.223	ppbv #	71
19) Isopropyl Alcohol	1.894	45	63612	6.359	ppbv #	1
20) Methylene Chloride	2.068	84	55916	7.970	ppbv	89
21) Allyl Chloride	2.049	41	4116	0.348	ppbv	89
23) Vinyl Acetate	2.479	43	16252	0.706	ppbv #	46
25) Ethyl Acetate	2.839	43	61166	1.509	ppbv #	89
26) Hexane	2.836	57	65075	3.478	ppbv #	55
29) Chloroform	2.865	83	2026	0.076	ppbv #	81
30) Cyclohexane	3.871	84	1782	0.109	ppbv #	1
31) cis-1,2-Dichloroethene	2.852	61	2739	0.147	ppbv #	22
34) 2-Butanone	2.567	43	51523	2.052	ppbv	99
35) Carbon Tetrachloride	3.777	117	1049	0.041	ppbv #	82
36) Benzene	3.667	78	9832	0.276	ppbv	98
37) 1,2-Dichloroethane	3.230	62	6821	0.367	ppbv	98
39) 1,2-Dichloropropane	3.975	63	95207	7.320	ppbv #	26
41) Tetrahydrofuran	3.072	42	4376	0.313	ppbv #	63
43) Methyl Methacrylate	4.901	69	487	0.033	ppbv #	7
44) 2,2,4-Trimethylpentane	4.658	57	24827	0.411	ppbv #	82
50) 4-Methyl-2-Pentanone	5.781	43	8532	0.251	ppbv #	38
51) 2-Hexanone	7.700	43	88128	3.300	ppbv #	48
52) Tetrachloroethene	8.247	164	1869	0.145	ppbv #	81
53) Toluene	6.953	91	120651	2.850	ppbv #	54
58) Ethyl Benzene	9.370	91	20426	0.366	ppbv	97
59) m/p-Xylene	9.545	91	71285	1.629	ppbv #	100
60) o-Xylene	9.976	91	35539	0.807	ppbv	97
61) Styrene	9.885	104	10873	0.527	ppbv	95
62) Isopropylbenzene	10.548	105	5105	0.079	ppbv	95
64) n-propylbenzene	11.002	120	3809	0.232	ppbv	80
65) tert-Butylbenzene	11.549	119	11019	0.194	ppbv #	41
66) Benzyl Chloride	11.746	91	2886	0.401	ppbv #	67
67) sec-Butylbenzene	12.050	105	3742	0.047	ppbv	96

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 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
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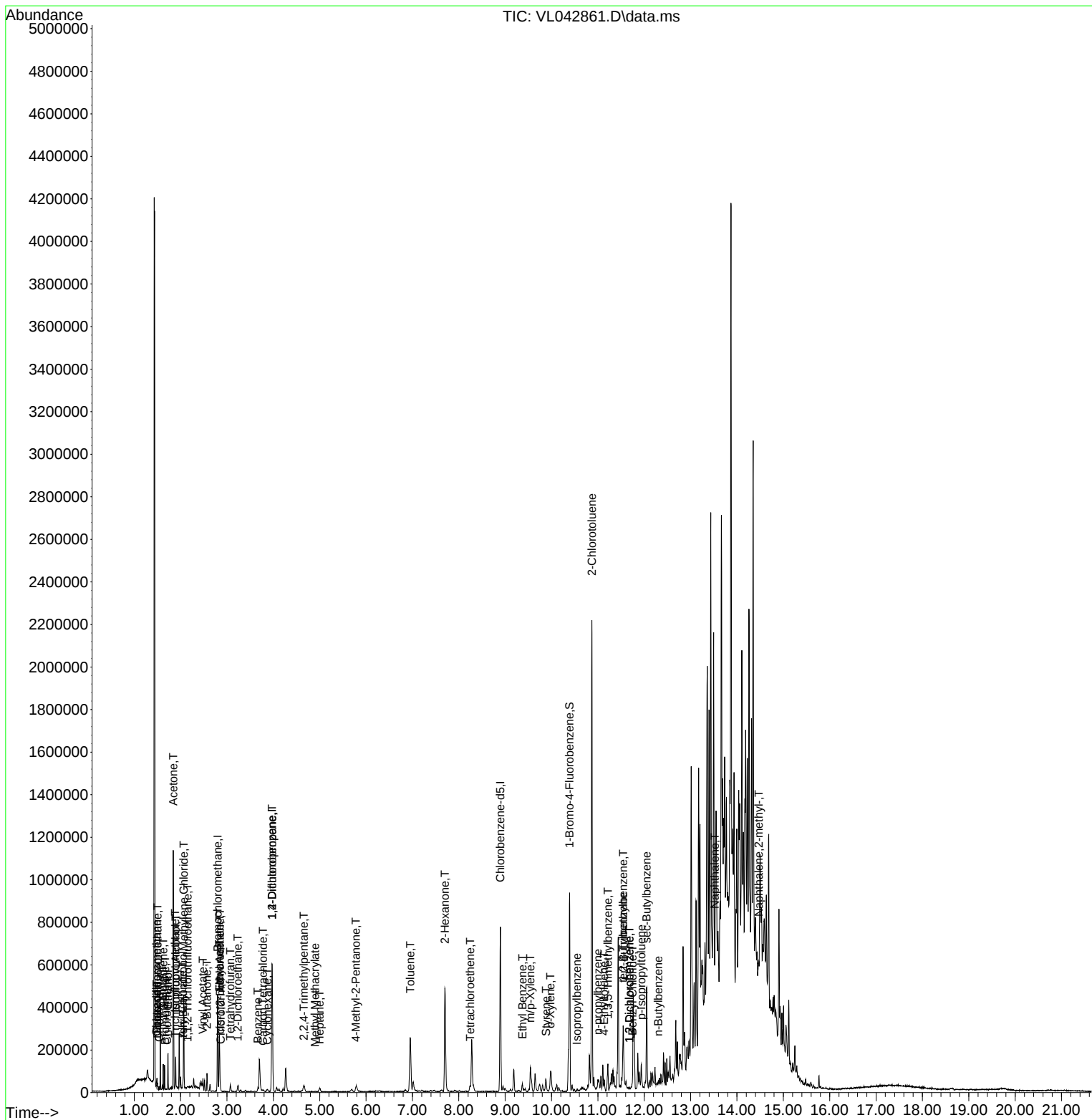
Quant Time: Aug 14 02:22:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 2025
 Response via : Initial Calibration

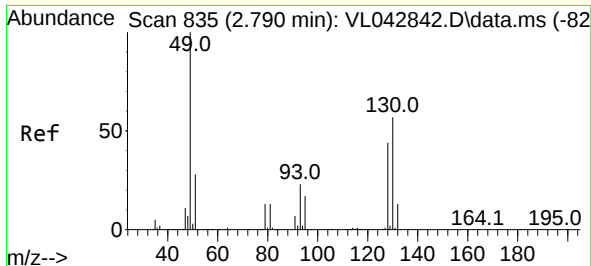
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

69) p-Isopropyltoluene	11.937	119	38968	0.570	ppbv	95
70) n-Butylbenzene	12.303	91	2657	0.039	ppbv #	1
71) 2-Chlorotoluene	10.869	91	285592	5.718	ppbv #	45
72) 4-Ethyltoluene	11.134	105	20240	0.379	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.215	105	31153	0.687	ppbv	90
74) 1,2,4-Trimethylbenzene	11.545	105	90034	1.808	ppbv #	61
75) 1,3-Dichlorobenzene	11.681	146	2451	0.087	ppbv	93
77) 1,2-Dichlorobenzene	11.681	146	2451	0.088	ppbv	90
79) Naphthalene	13.523	128	15027	0.333	ppbv #	87
80) Naphthalene,2-methyl-	14.471	142	1952	0.116	ppbv #	15

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

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Aug 14 02:12:54 2025
Response via : Initial Calibration

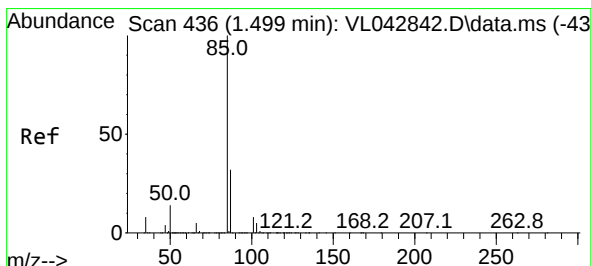
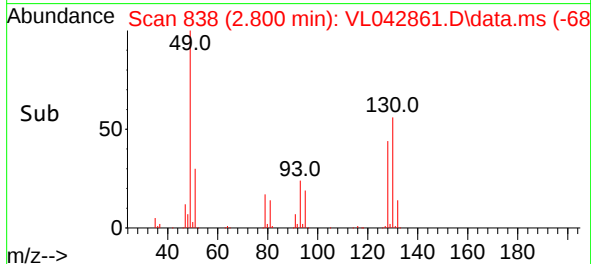
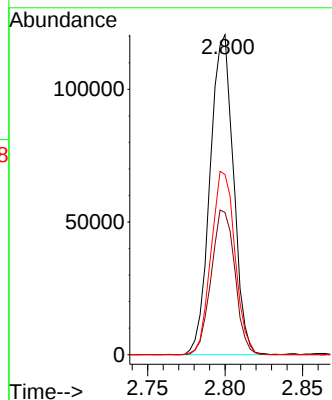
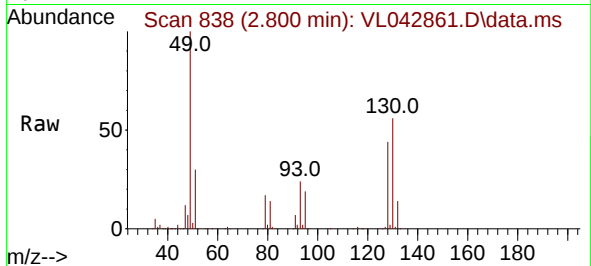




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.800 min Scan# 81
 Delta R.T. 0.010 min
 Lab File: VL042861.D
 Acq: 13 Aug 2025 20:49

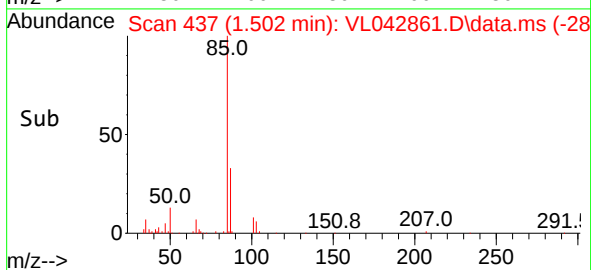
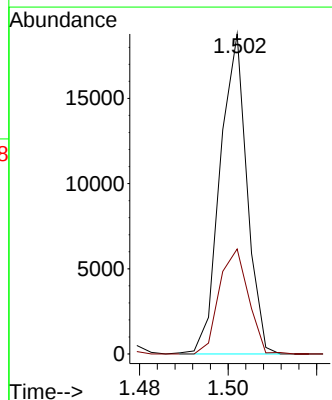
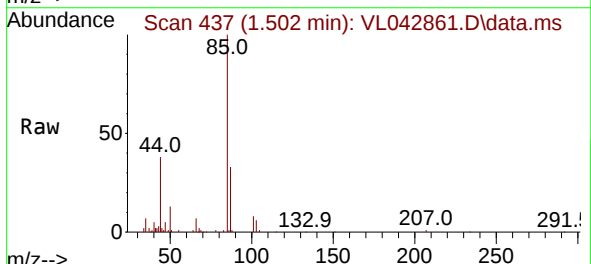
Instrument :
 MSVOA_L
 ClientSampleId :

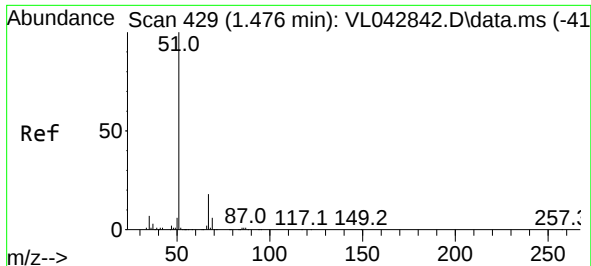
Tgt Ion: 49 Resp: 126603
 Ion Ratio Lower Upper
 49 100
 128 45.8 23.7 71.1
 130 58.5 30.6 91.6



#2
 Dichlorodifluoromethane
 Concen: 0.424 ppbv
 RT: 1.502 min Scan# 437
 Delta R.T. 0.003 min
 Lab File: VL042861.D
 Acq: 13 Aug 2025 20:49

Tgt Ion: 85 Resp: 7873
 Ion Ratio Lower Upper
 85 100
 87 32.8 25.3 37.9

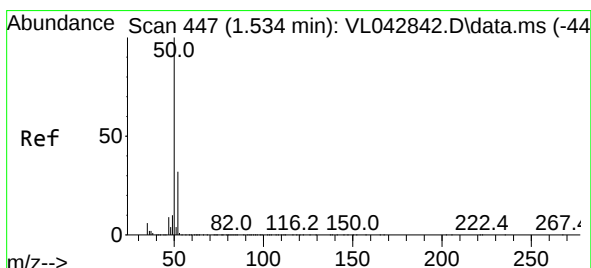
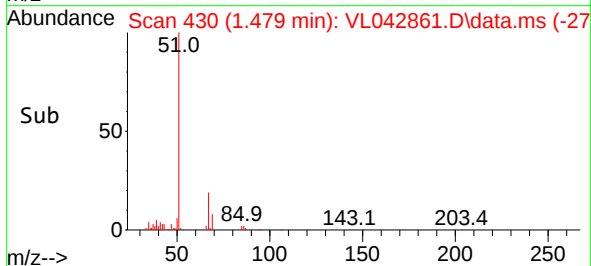
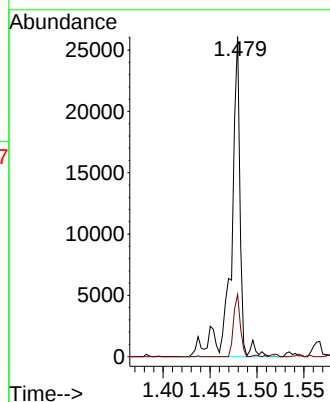
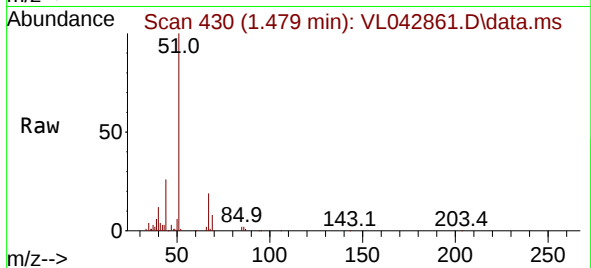




#3
Chlorodifluoromethane
Concen: 0.835 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

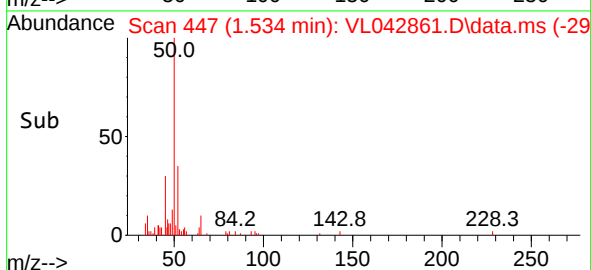
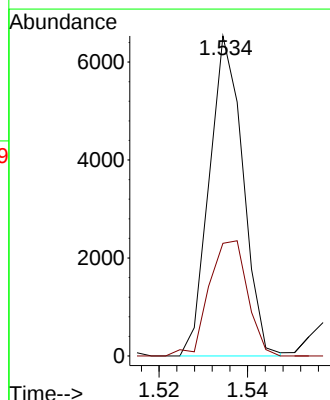
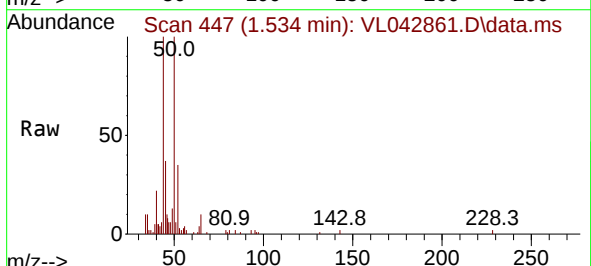
Instrument :
MSVOA_L
ClientSampleId :

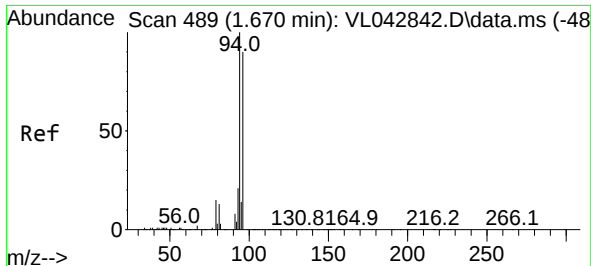
Tgt Ion: 51 Resp: 17116
Ion Ratio Lower Upper
51 100
67 14.9 14.9 22.3



#4
Chloromethane
Concen: 0.461 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

Tgt Ion: 50 Resp: 3451
Ion Ratio Lower Upper
50 100
52 35.2 25.9 38.9

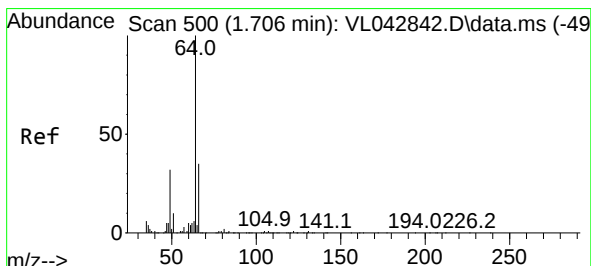
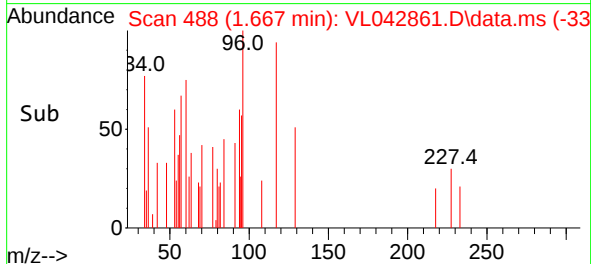
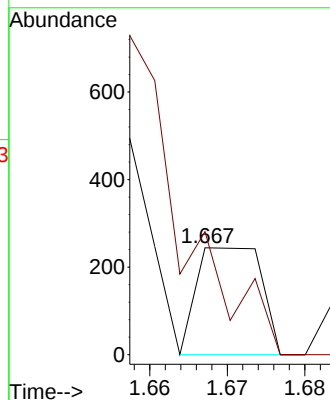
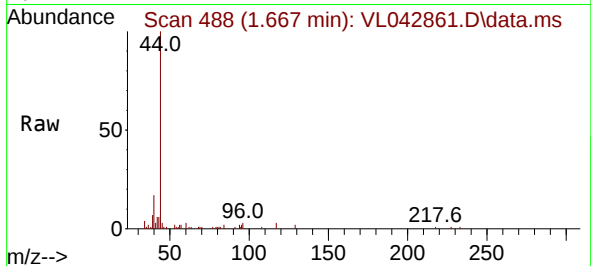




#6
Bromomethane
Concen: 0.048 ppbv
RT: 1.667 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

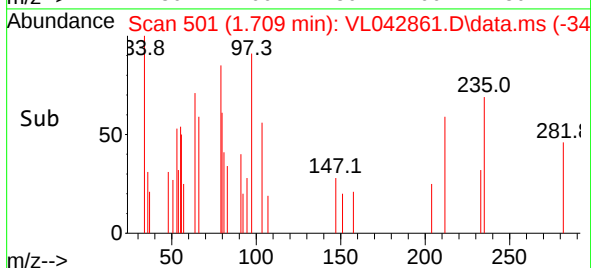
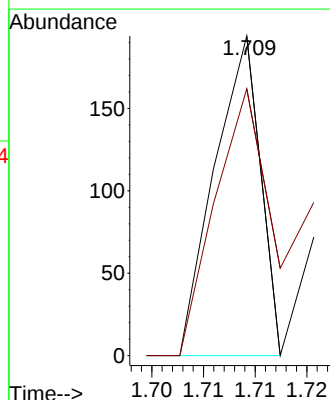
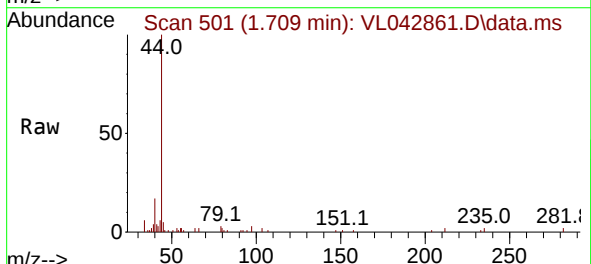
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MSVOA_L
ClientSampleId :

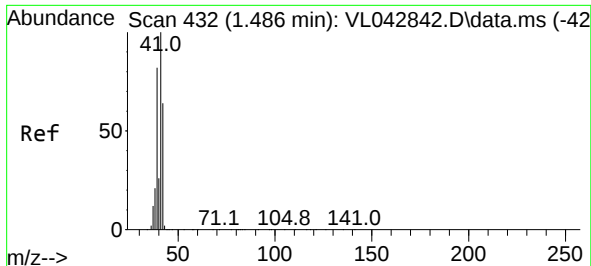
Tgt Ion: 94 Resp: 141
Ion Ratio Lower Upper
94 100
96 115.2 72.1 108.1#



#7
Chloroethane
Concen: 0.021 ppbv
RT: 1.709 min Scan# 501
Delta R.T. 0.003 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

Tgt Ion: 64 Resp: 60
Ion Ratio Lower Upper
64 100
66 83.5 28.6 42.8#

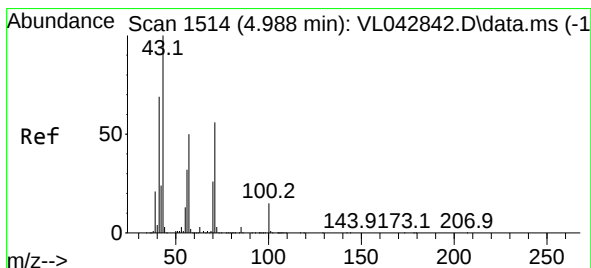
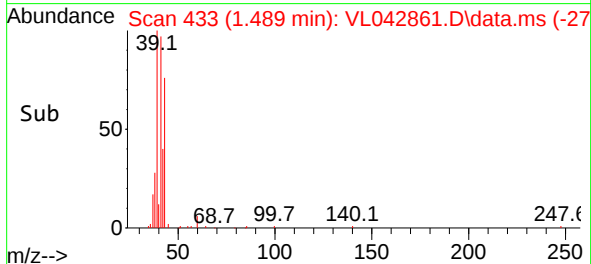
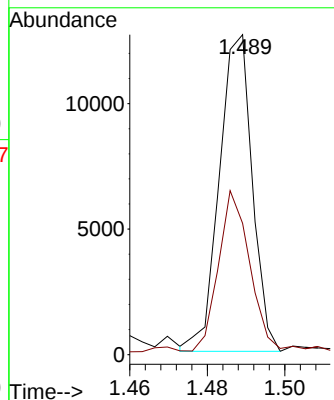
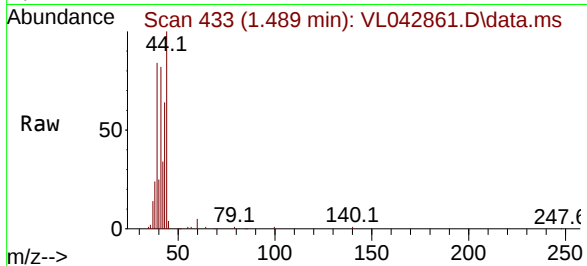




#9
 Propene
 Concen: 0.841 ppbv
 RT: 1.489 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042861.D
 Acq: 13 Aug 2025 20:49

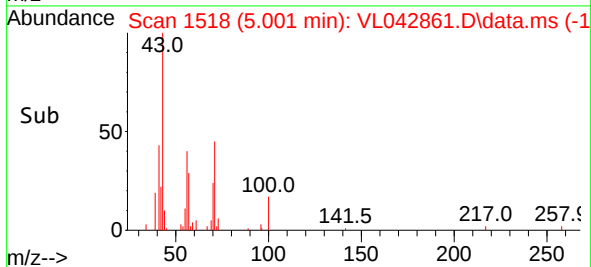
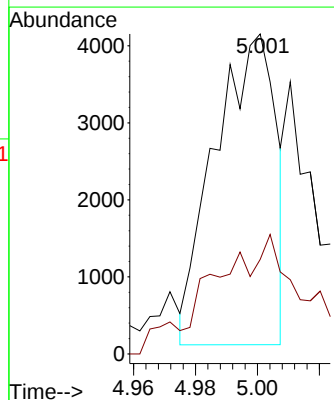
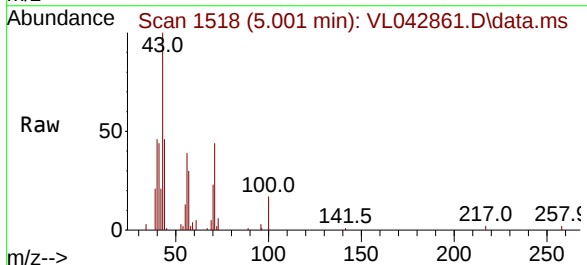
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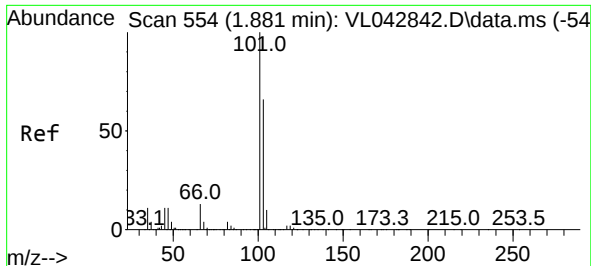
Tgt Ion: 41 Resp: 7453
 Ion Ratio Lower Upper
 41 100
 42 57.8 53.0 79.4



#10
 Heptane
 Concen: 0.233 ppbv
 RT: 5.001 min Scan# 1518
 Delta R.T. 0.013 min
 Lab File: VL042861.D
 Acq: 13 Aug 2025 20:49

Tgt Ion: 43 Resp: 5520
 Ion Ratio Lower Upper
 43 100
 57 63.9 41.4 62.0#

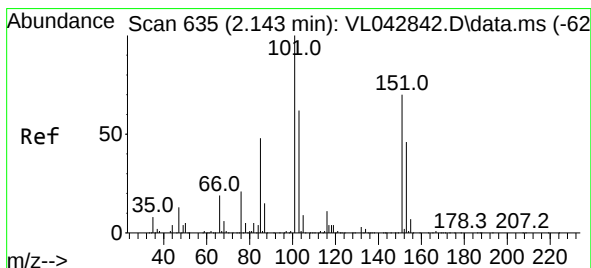
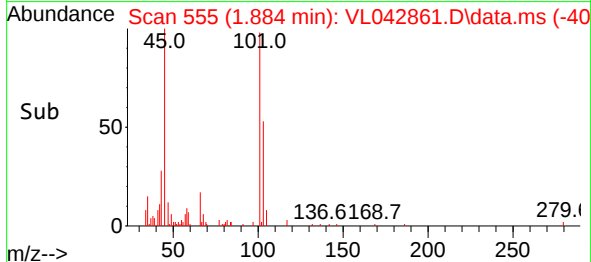
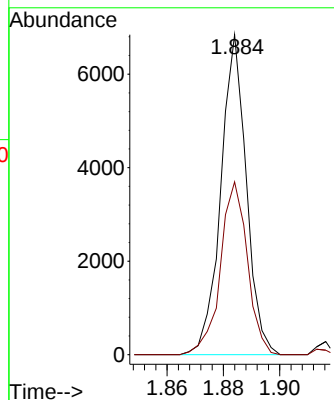
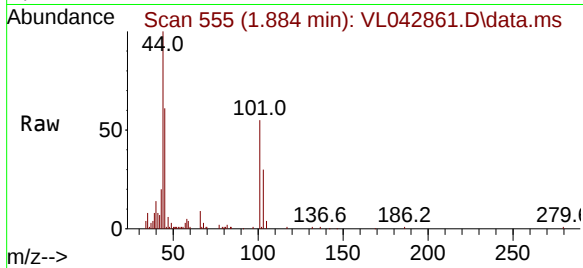




#11
 Trichlorofluoromethane
 Concen: 0.236 ppbv
 RT: 1.884 min Scan# 511
 Delta R.T. 0.003 min
 Lab File: VL042861.D
 Acq: 13 Aug 2025 20:49

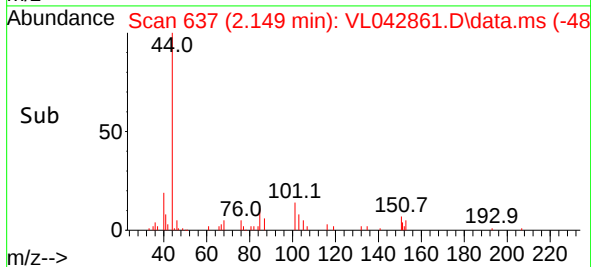
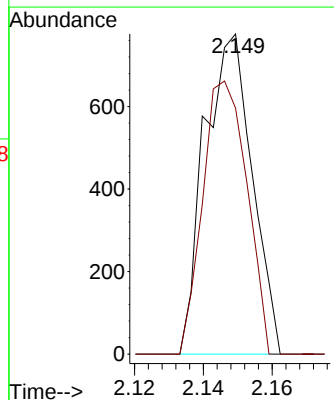
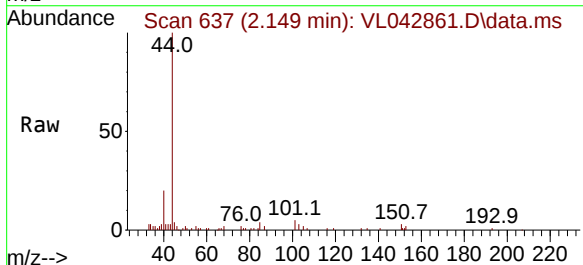
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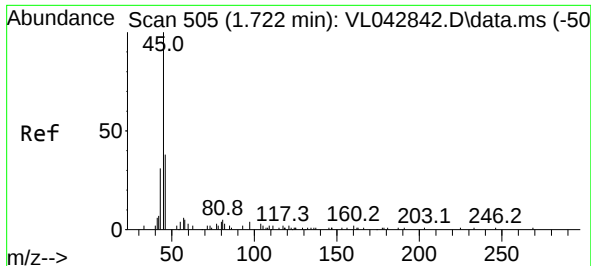
Tgt Ion:101 Resp: 4312
 Ion Ratio Lower Upper
 101 100
 103 54.0 52.5 78.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.051 ppbv
 RT: 2.149 min Scan# 637
 Delta R.T. 0.006 min
 Lab File: VL042861.D
 Acq: 13 Aug 2025 20:49

Tgt Ion:101 Resp: 746
 Ion Ratio Lower Upper
 101 100
 151 79.2 56.4 84.6

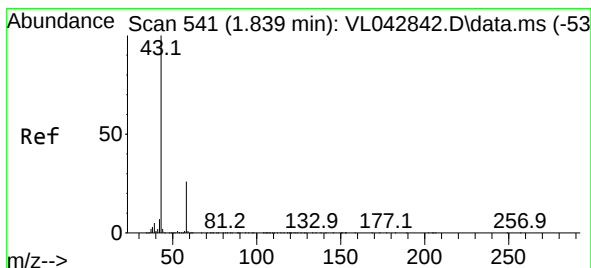
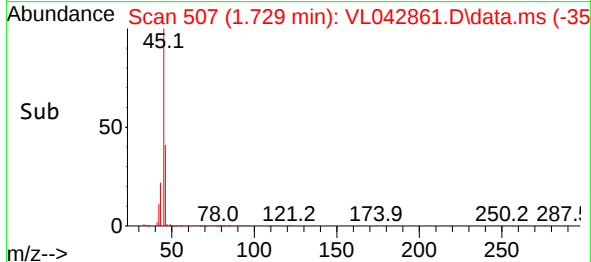
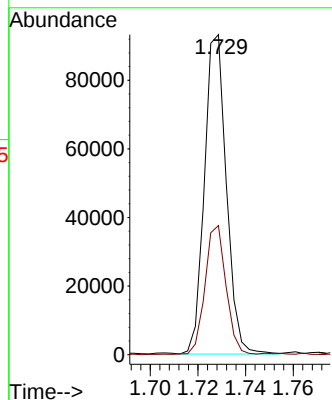
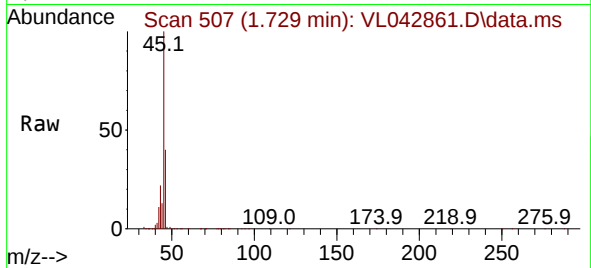




#13
Ethanol
Concen: 73.674 ppbv
RT: 1.729 min Scan# 50
Delta R.T. 0.006 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

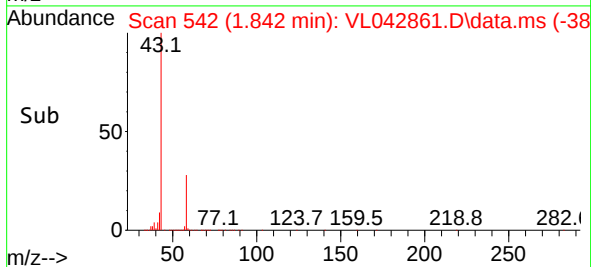
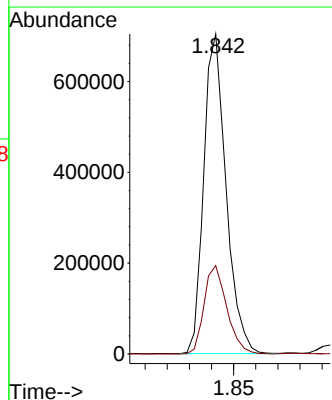
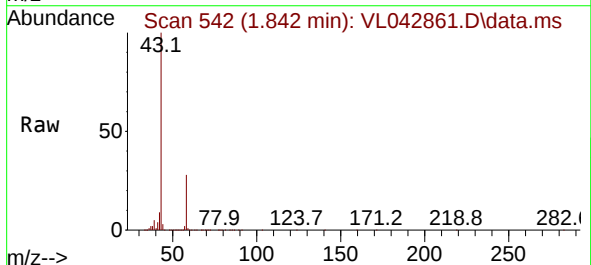
Instrument :
MSVOA_L
ClientSampleId :

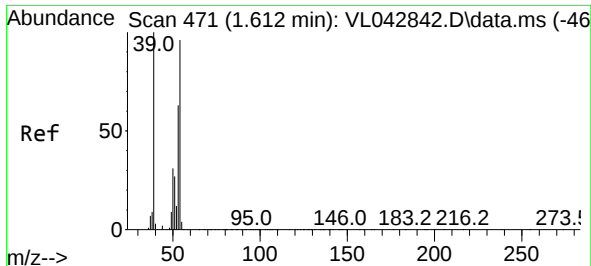
Tgt Ion: 45 Resp: 59666
Ion Ratio Lower Upper
45 100
46 39.6 17.5 69.9



#15
Acetone
Concen: 29.388 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.003 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

Tgt Ion: 43 Resp: 492169
Ion Ratio Lower Upper
43 100
58 28.5 22.4 33.6





#16

1,3-Butadiene

Concen: 0.687 ppbv

RT: 1.625 min Scan# 41

Delta R.T. 0.013 min

Lab File: VL042861.D

Acq: 13 Aug 2025 20:49

Instrument :

MSVOA_L

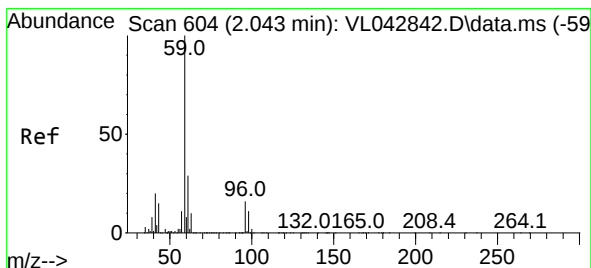
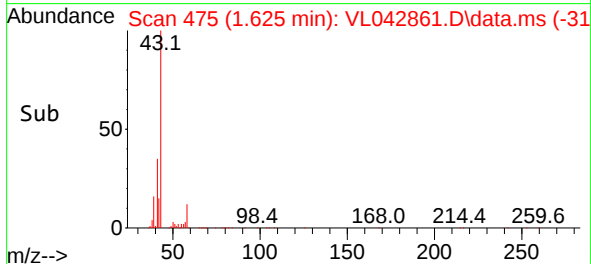
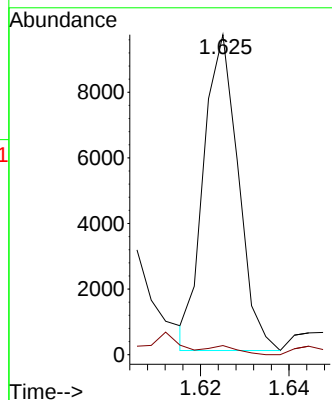
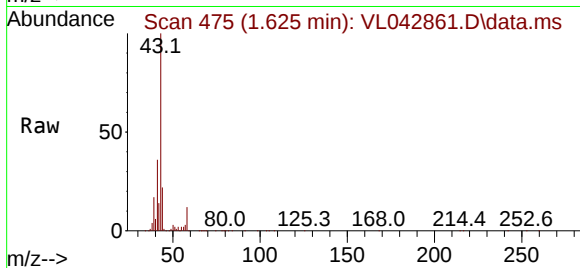
ClientSampleId :

Tgt Ion: 39 Resp: 5218

Ion Ratio Lower Upper

39 100

54 0.0 63.6 95.4#



#17

tert-Butyl alcohol

Concen: 0.223 ppbv

RT: 2.052 min Scan# 607

Delta R.T. 0.010 min

Lab File: VL042861.D

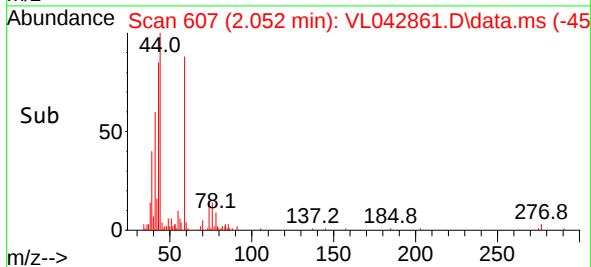
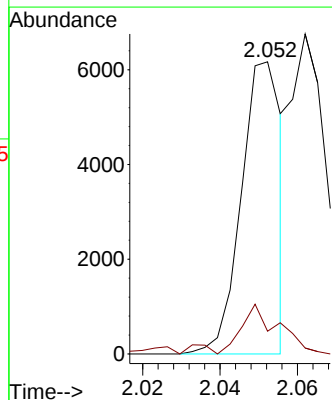
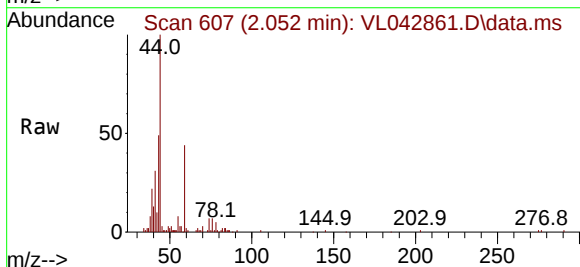
Acq: 13 Aug 2025 20:49

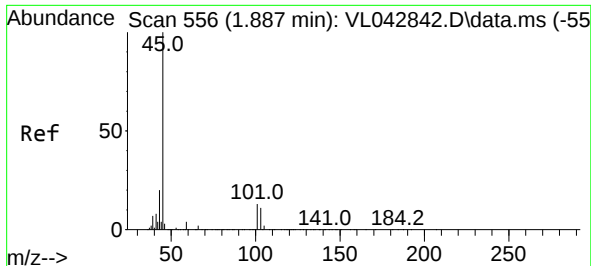
Tgt Ion: 59 Resp: 4433

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#

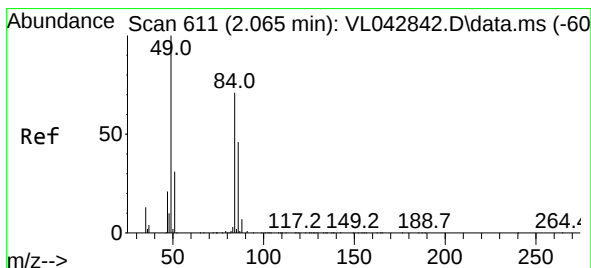
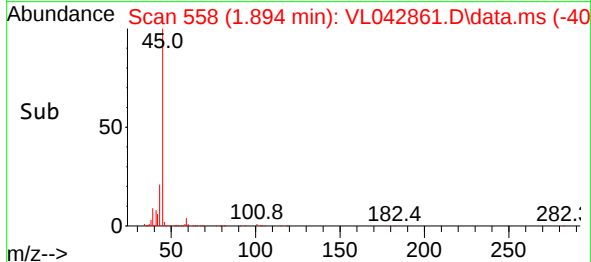
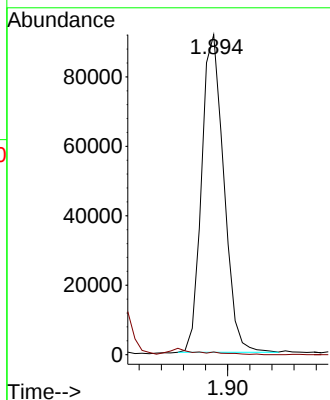
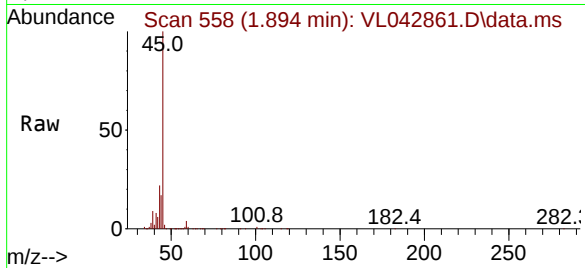




#19
Isopropyl Alcohol
Concen: 6.359 ppbv
RT: 1.894 min Scan# 51
Delta R.T. 0.006 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

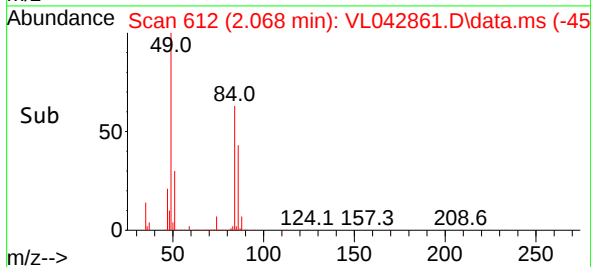
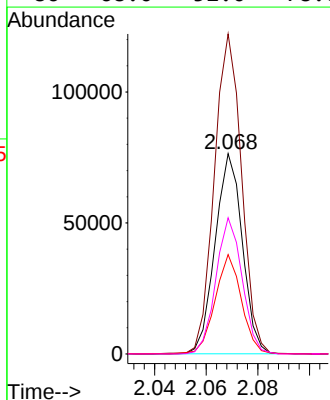
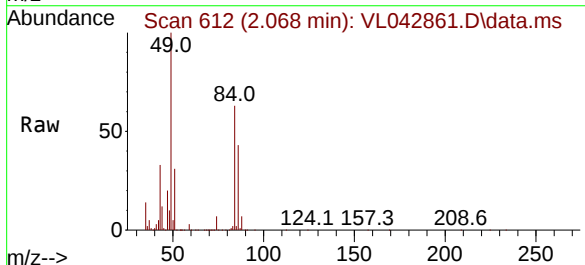
Instrument :
MSVOA_L
ClientSampleId :

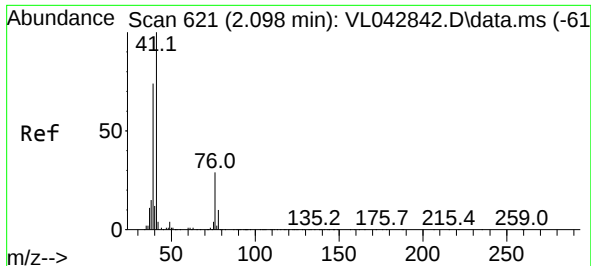
Tgt Ion: 45 Resp: 63612
Ion Ratio Lower Upper
45 100
58 220.4 32.7 49.1#



#20
Methylene Chloride
Concen: 7.970 ppbv
RT: 2.068 min Scan# 612
Delta R.T. 0.003 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

Tgt Ion: 84 Resp: 55916
Ion Ratio Lower Upper
84 100
49 159.5 112.3 168.5
51 49.5 36.0 54.0
86 68.0 52.0 78.0





#21

Allyl Chloride

Concen: 0.348 ppbv

RT: 2.049 min Scan# 60

Delta R.T. -0.049 min

Lab File: VL042861.D

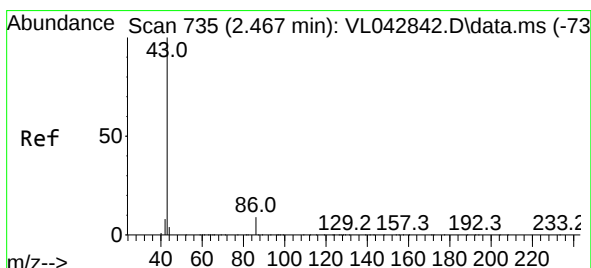
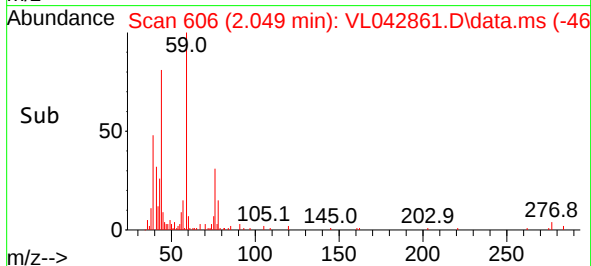
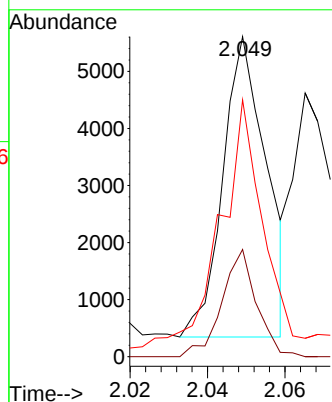
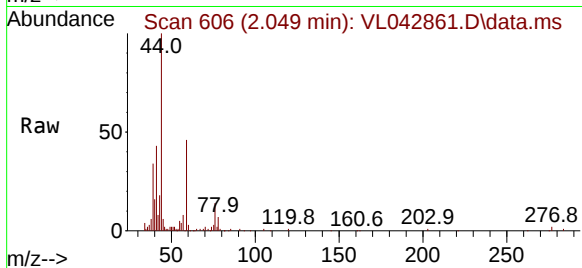
Acq: 13 Aug 2025 20:49

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:	41	Resp:	4116
Ion	Ratio	Lower	Upper
41	100		
76	28.4	23.9	35.9
39	84.2	57.8	86.6



#23

Vinyl Acetate

Concen: 0.706 ppbv

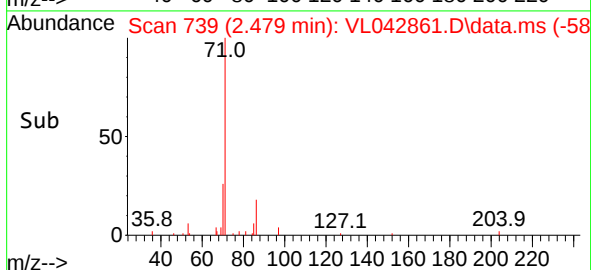
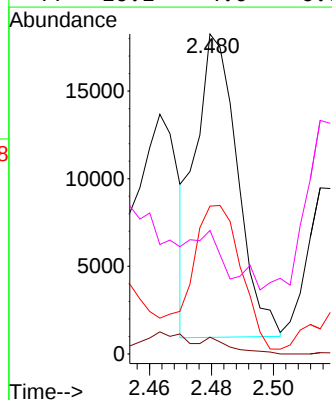
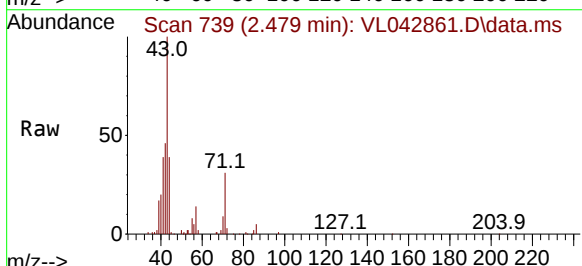
RT: 2.479 min Scan# 739

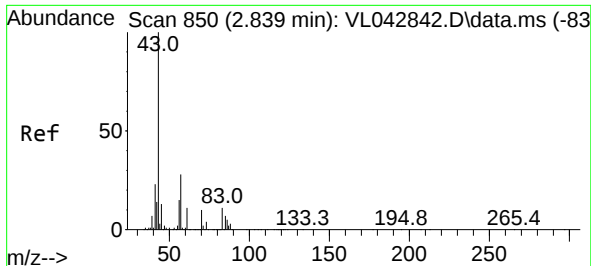
Delta R.T. 0.013 min

Lab File: VL042861.D

Acq: 13 Aug 2025 20:49

Tgt Ion:	43	Resp:	16252
Ion	Ratio	Lower	Upper
43	100		
86	5.6	6.6	9.8#
42	48.0	7.0	10.6#
44	16.1	4.0	6.0#

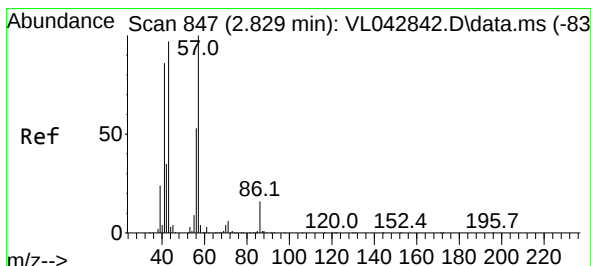
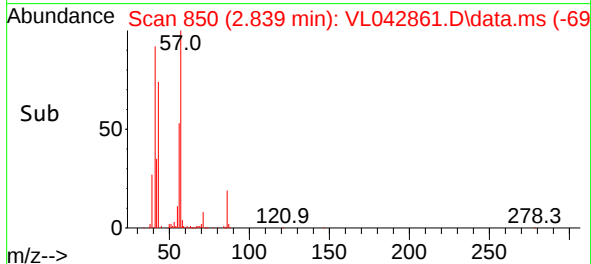
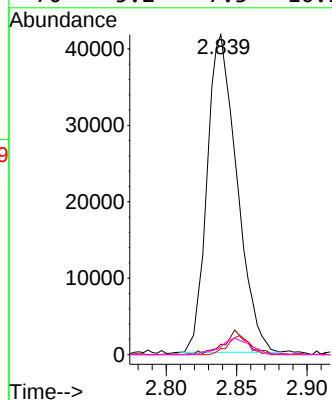
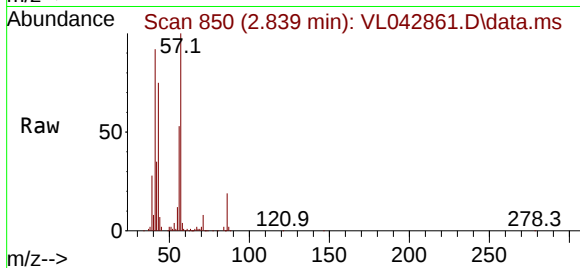




#25
Ethyl Acetate
Concen: 1.509 ppbv
RT: 2.839 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

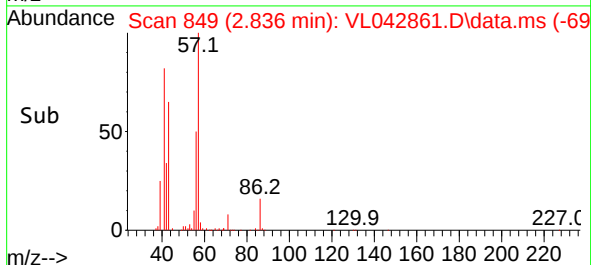
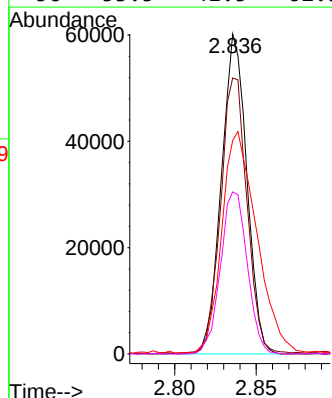
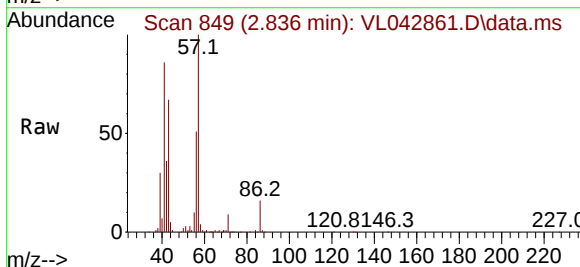
Instrument :
MSVOA_L
ClientSampleId :

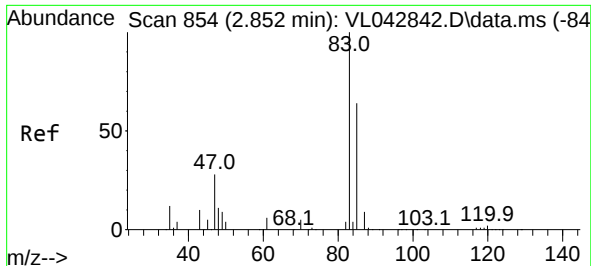
Tgt Ion:	43	Resp:	61166
Ion	Ratio	Lower	Upper
43	100		
45	6.5	8.1	12.1#
61	4.5	7.4	11.2#
70	5.2	7.3	10.9#



#26
Hexane
Concen: 3.478 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.006 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

Tgt Ion:	57	Resp:	65075
Ion	Ratio	Lower	Upper
57	100		
41	90.0	68.6	103.0
43	96.7	168.5	252.7#
56	53.5	41.5	62.3





#29

Chloroform

Concen: 0.076 ppbv

RT: 2.865 min Scan# 854

Delta R.T. 0.013 min

Lab File: VL042861.D

Acq: 13 Aug 2025 20:49

Instrument :

MSVOA_L

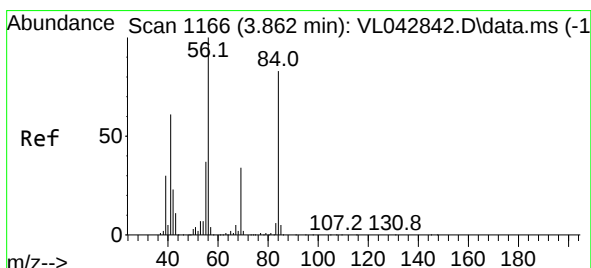
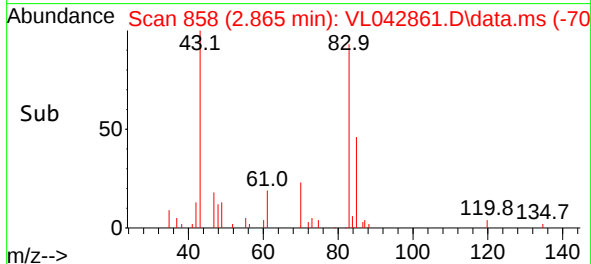
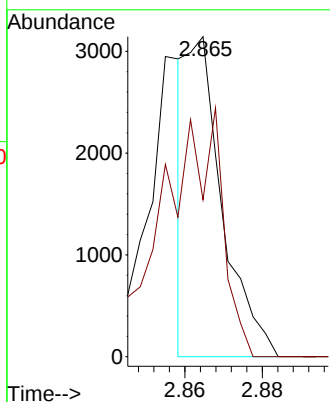
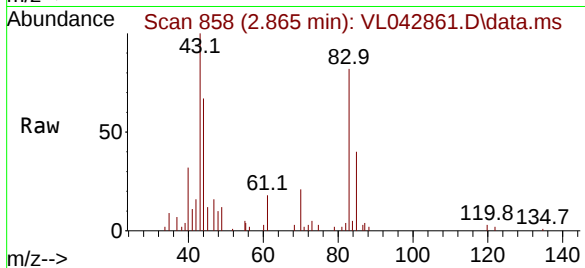
ClientSampleId :

Tgt Ion: 83 Resp: 2026

Ion Ratio Lower Upper

83 100

85 49.1 51.1 76.7#



#30

Cyclohexane

Concen: 0.109 ppbv

RT: 3.871 min Scan# 1169

Delta R.T. 0.010 min

Lab File: VL042861.D

Acq: 13 Aug 2025 20:49

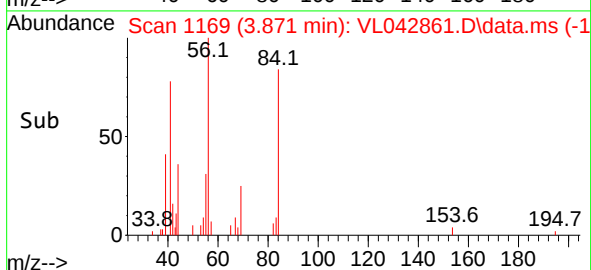
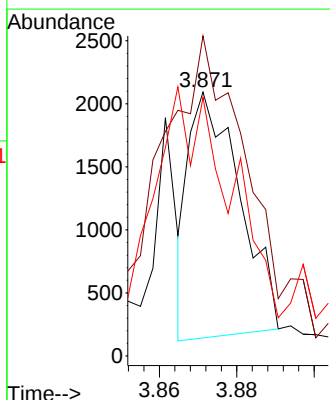
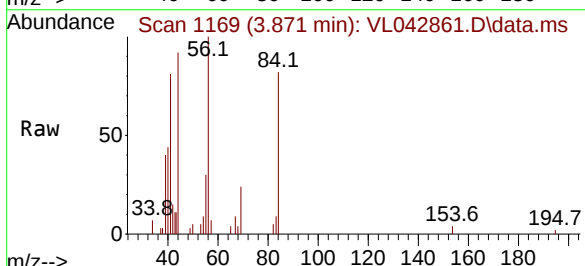
Tgt Ion: 84 Resp: 1782

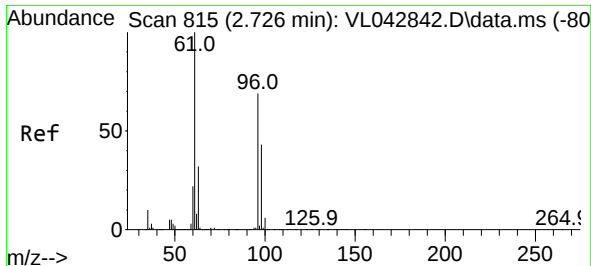
Ion Ratio Lower Upper

84 100

56 261.7 98.8 148.2#

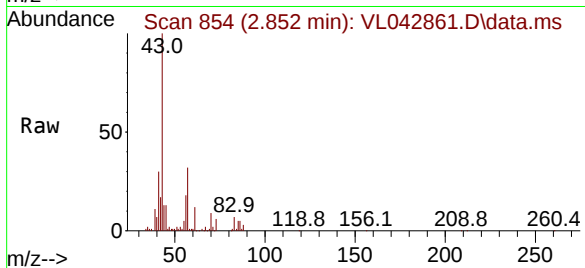
41 0.0 61.3 91.9#



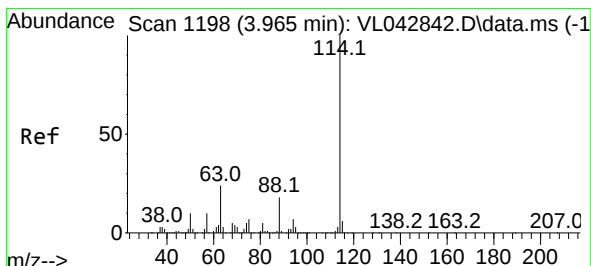
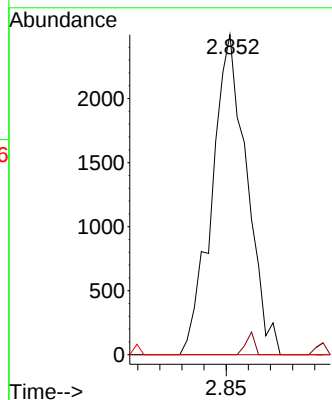
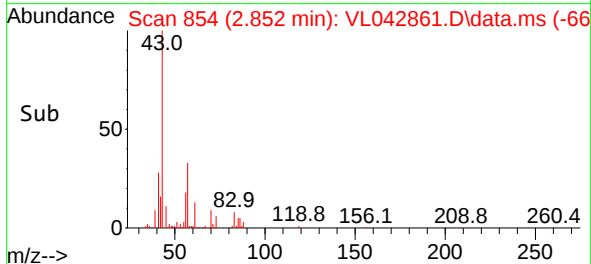


#31
 cis-1,2-Dichloroethene
 Concen: 0.147 ppbv
 RT: 2.852 min Scan# 815
 Delta R.T. 0.126 min
 Lab File: VL042861.D
 Acq: 13 Aug 2025 20:49

Instrument :
 MSVOA_L
 ClientSampleId :

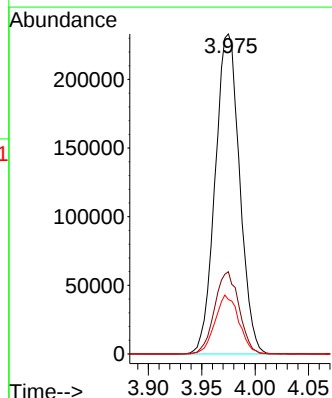
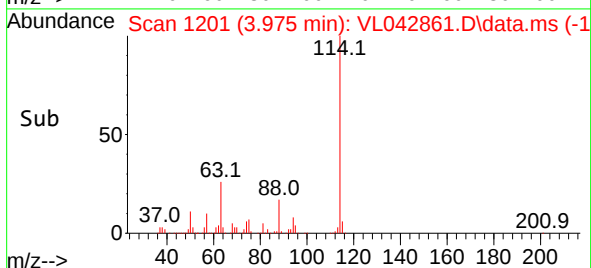
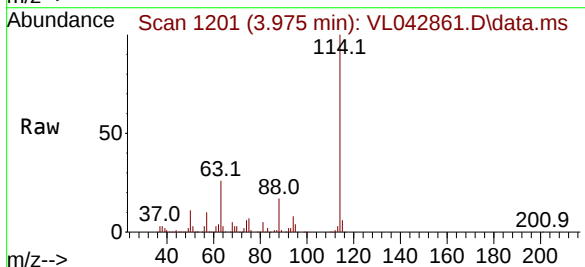


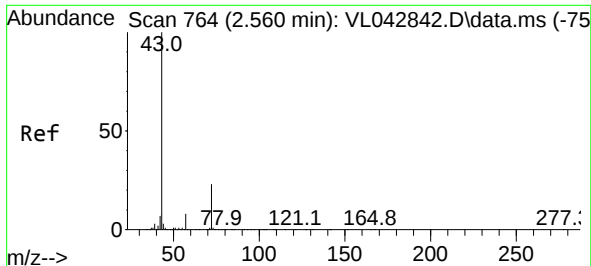
Tgt Ion: 61 Resp: 2739
 Ion Ratio Lower Upper
 61 100
 96 0.0 55.0 82.6#
 98 0.0 34.3 51.5#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.975 min Scan# 1201
 Delta R.T. 0.010 min
 Lab File: VL042861.D
 Acq: 13 Aug 2025 20:49

Tgt Ion: 114 Resp: 371881
 Ion Ratio Lower Upper
 114 100
 63 25.7 19.7 29.5
 88 18.0 14.4 21.6

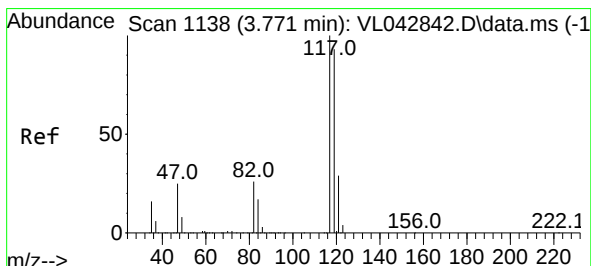
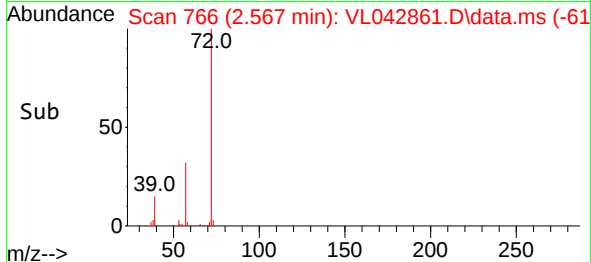
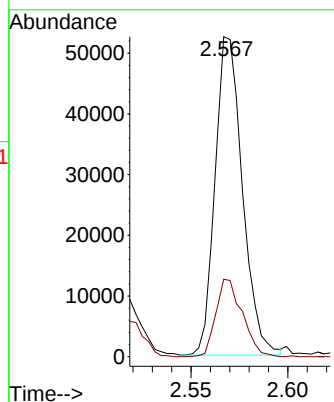
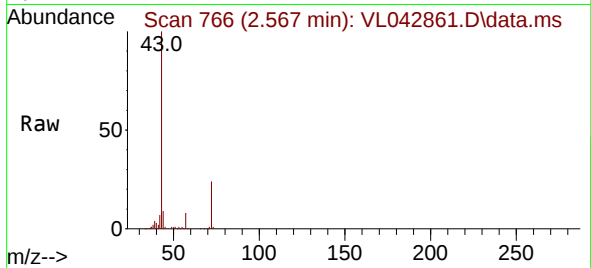




#34
2-Butanone
Concen: 2.052 ppbv
RT: 2.567 min Scan# 71
Delta R.T. 0.006 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

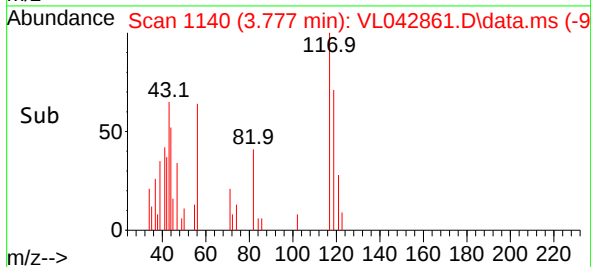
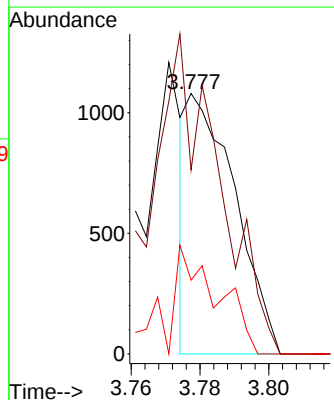
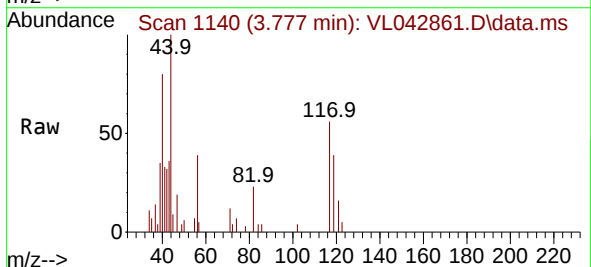
Instrument :
MSVOA_L
ClientSampleId :

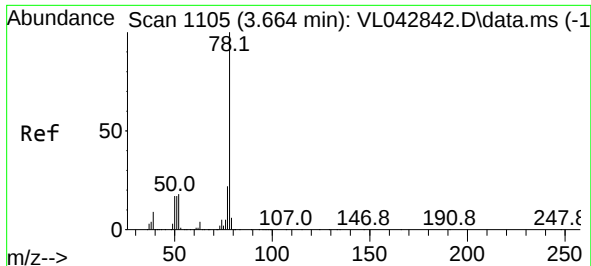
Tgt Ion: 43 Resp: 51523
Ion Ratio Lower Upper
43 100
72 23.6 18.6 28.0



#35
Carbon Tetrachloride
Concen: 0.041 ppbv
RT: 3.777 min Scan# 1140
Delta R.T. 0.006 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

Tgt Ion: 117 Resp: 1049
Ion Ratio Lower Upper
117 100
119 70.6 74.7 112.1#
121 28.3 23.2 34.8

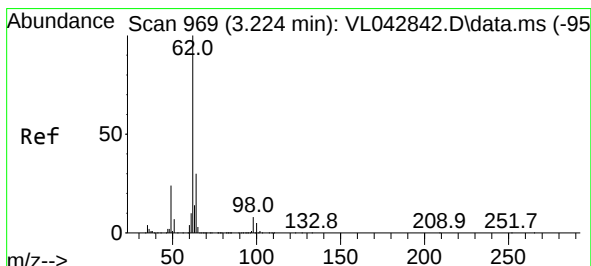
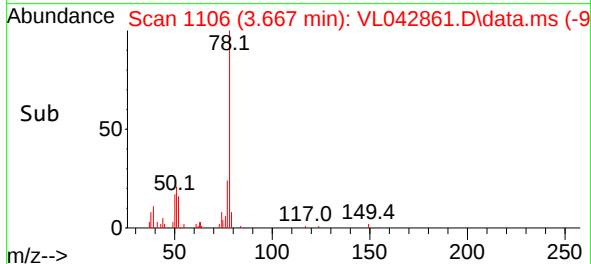
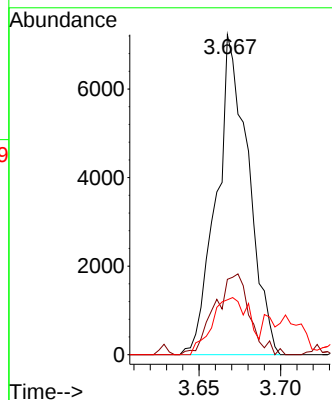
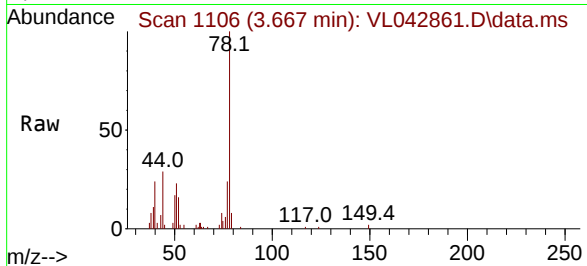




#36
Benzene
Concen: 0.276 ppbv
RT: 3.667 min Scan# 1106
Delta R.T. 0.003 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

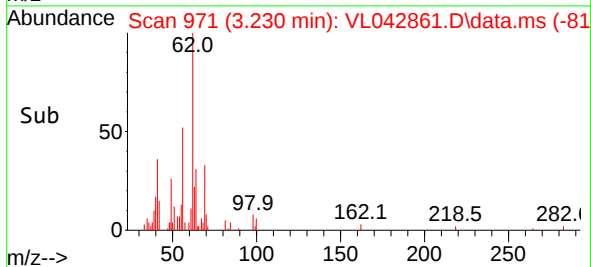
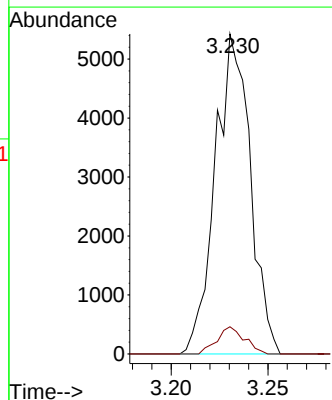
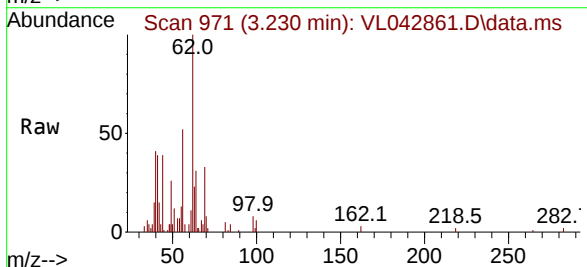
Instrument :
MSVOA_L
ClientSampleId :

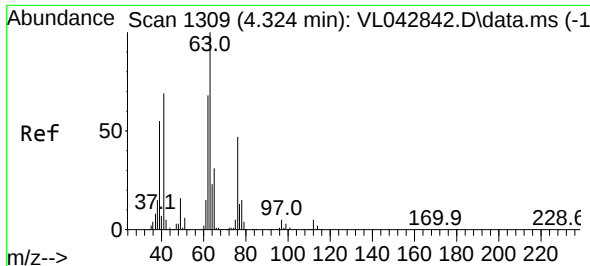
Tgt Ion: 78 Resp: 9832
Ion Ratio Lower Upper
78 100
77 23.5 17.7 26.5
50 17.1 13.9 20.9



#37
1,2-Dichloroethane
Concen: 0.367 ppbv
RT: 3.230 min Scan# 971
Delta R.T. 0.006 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

Tgt Ion: 62 Resp: 6821
Ion Ratio Lower Upper
62 100
98 6.7 5.9 8.9





#39

1,2-Dichloropropane

Concen: 7.320 ppbv

RT: 3.975 min Scan# 11

Delta R.T. -0.350 min

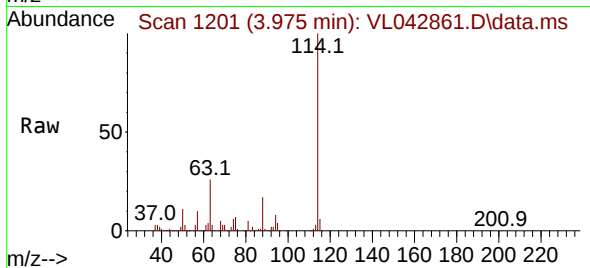
Lab File: VL042861.D

Acq: 13 Aug 2025 20:49

Instrument :

MSVOA_L

ClientSampleId :



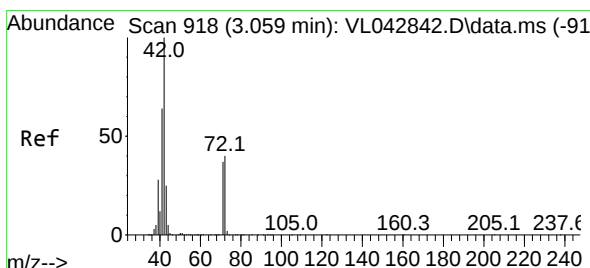
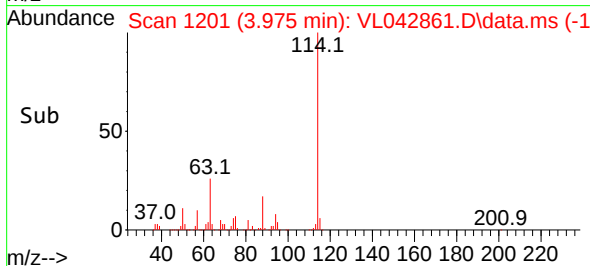
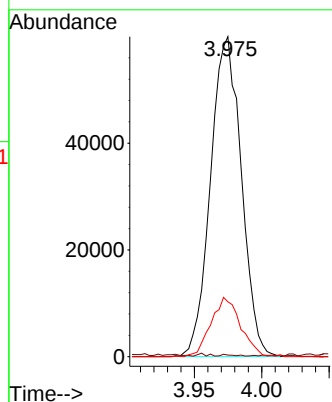
Tgt Ion: 63 Resp: 95207

Ion Ratio Lower Upper

63 100

41 0.1 55.0 82.4#

62 17.0 54.4 81.6#



#41

Tetrahydrofuran

Concen: 0.313 ppbv

RT: 3.072 min Scan# 922

Delta R.T. 0.013 min

Lab File: VL042861.D

Acq: 13 Aug 2025 20:49

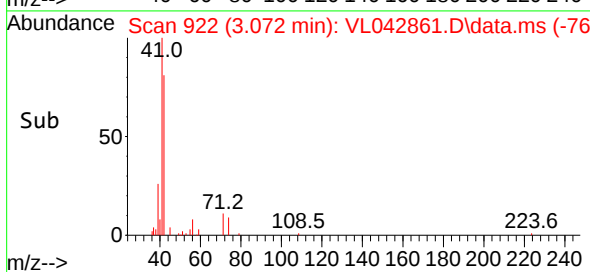
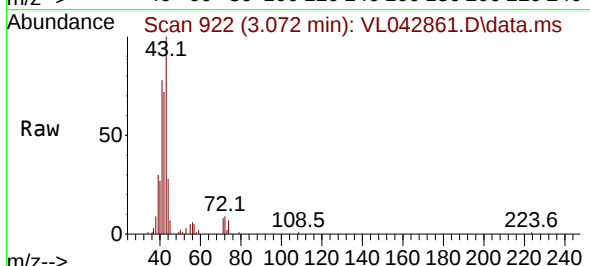
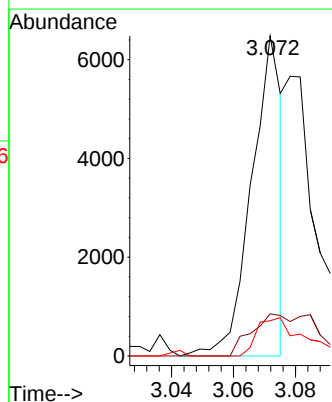
Tgt Ion: 42 Resp: 4376

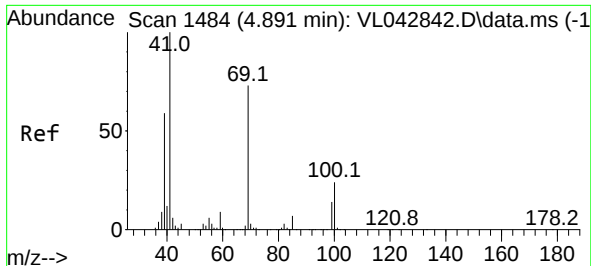
Ion Ratio Lower Upper

42 100

72 32.7 32.6 48.8

71 0.0 30.0 45.0#

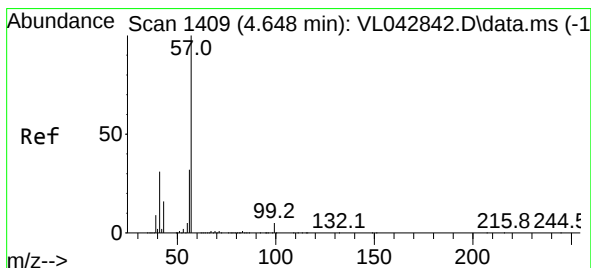
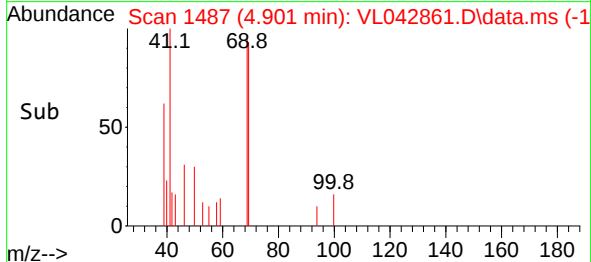
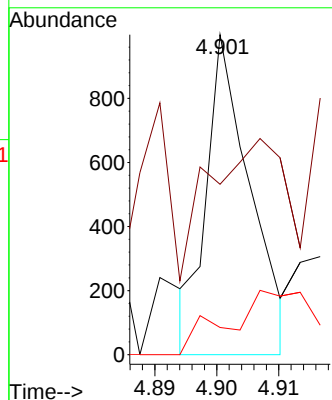
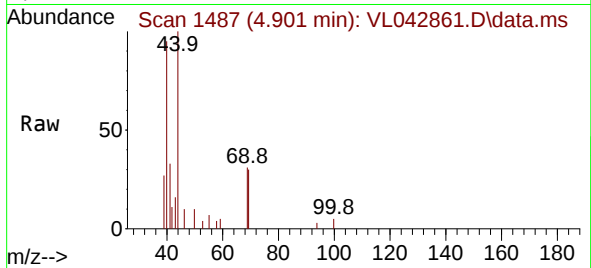




#43
Methyl Methacrylate
Concen: 0.033 ppbv
RT: 4.901 min Scan# 1412
Delta R.T. 0.010 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

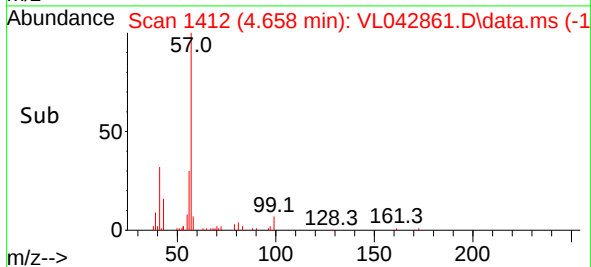
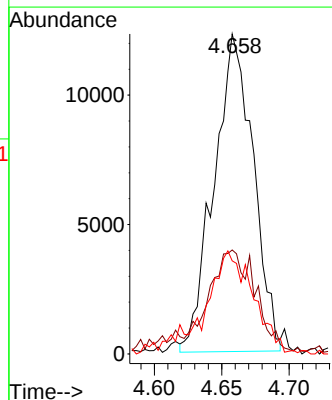
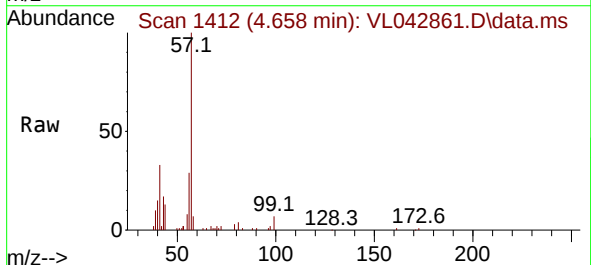
Instrument :
MSVOA_L
ClientSampleId :

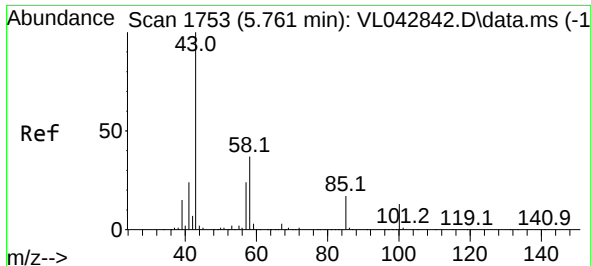
Tgt Ion: 69 Resp: 487
Ion Ratio Lower Upper
69 100
41 0.0 114.6 172.0#
100 42.3 30.2 45.4



#44
2,2,4-Trimethylpentane
Concen: 0.411 ppbv
RT: 4.658 min Scan# 1412
Delta R.T. 0.010 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

Tgt Ion: 57 Resp: 24827
Ion Ratio Lower Upper
57 100
41 41.7 24.8 37.2#
56 41.1 25.5 38.3#

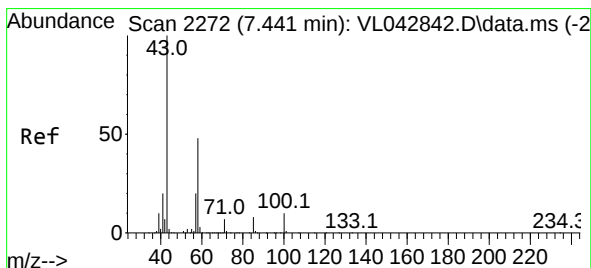
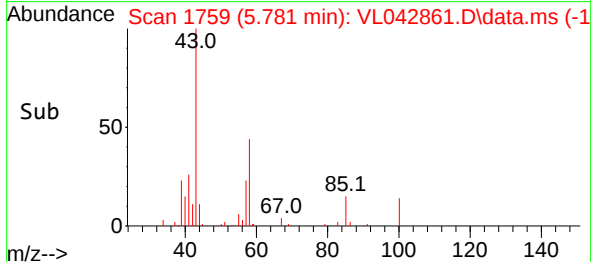
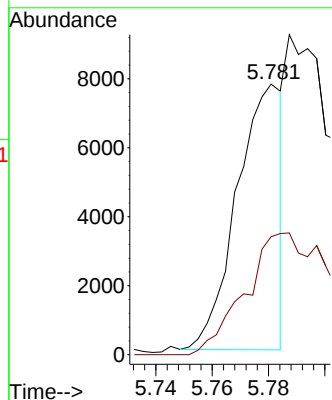
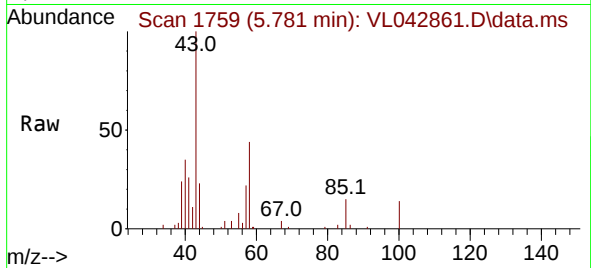




#50
4-Methyl-2-Pentanone
Concen: 0.251 ppbv
RT: 5.781 min Scan# 11
Delta R.T. 0.019 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

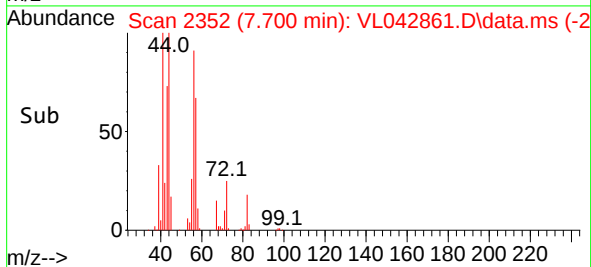
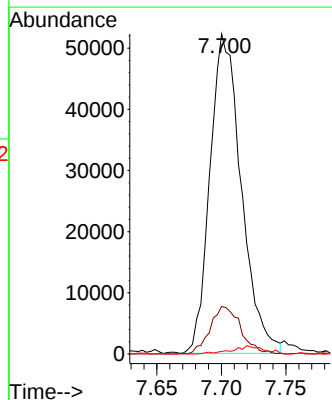
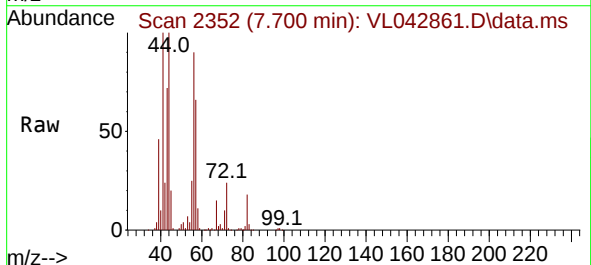
Instrument :
MSVOA_L
ClientSampleId :

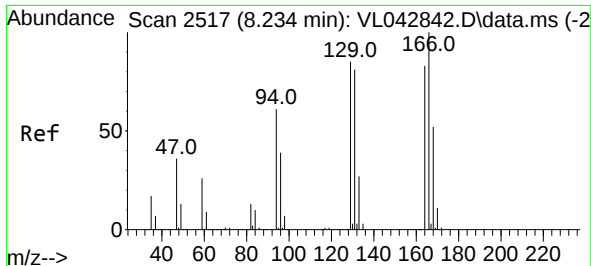
Tgt Ion: 43 Resp: 8532
Ion Ratio Lower Upper
43 100
58 0.0 29.8 44.8#



#51
2-Hexanone
Concen: 3.300 ppbv
RT: 7.700 min Scan# 2352
Delta R.T. 0.259 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

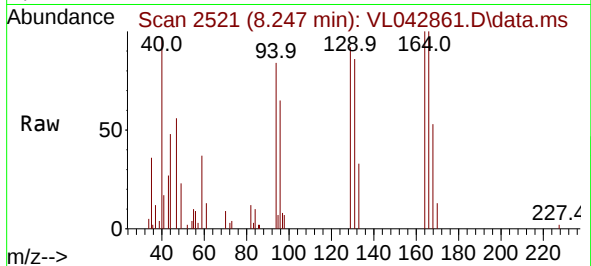
Tgt Ion: 43 Resp: 88128
Ion Ratio Lower Upper
43 100
58 14.6 41.0 61.6#
98 2.7 0.1 0.1#



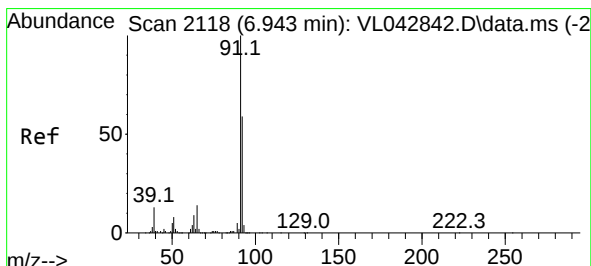
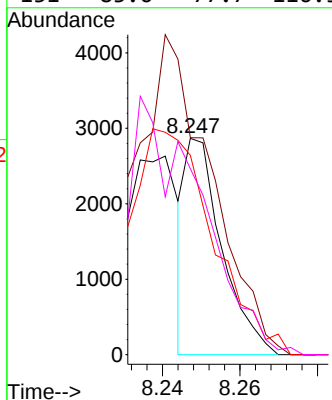
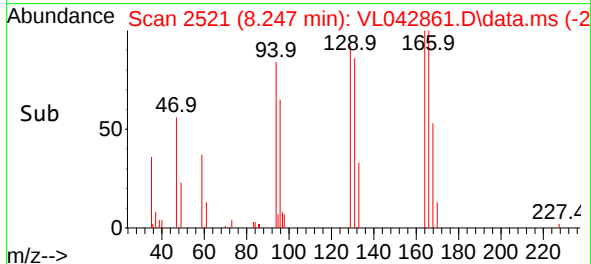


#52
Tetrachloroethene
Concen: 0.145 ppbv
RT: 8.247 min Scan# 2121
Delta R.T. 0.013 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

Instrument :
MSVOA_L
ClientSampleId :

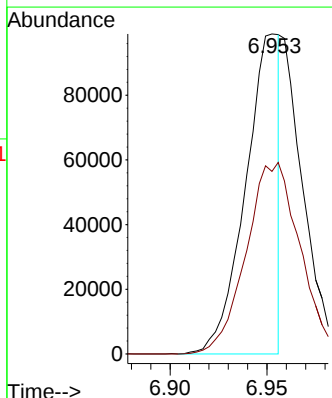
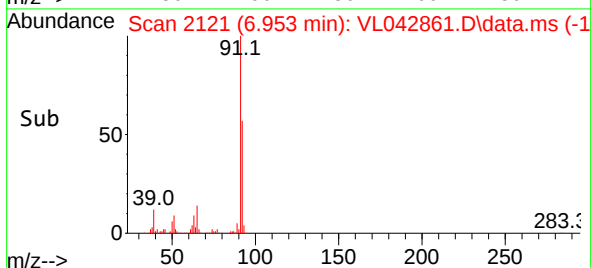
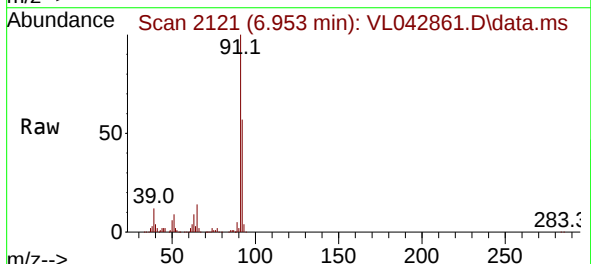


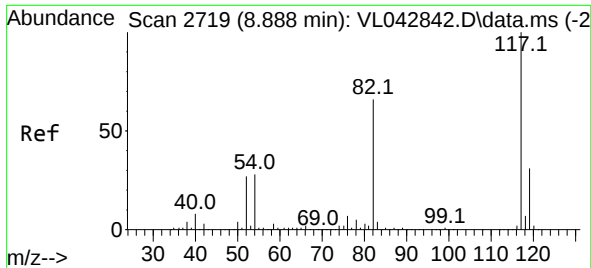
Tgt Ion:164 Resp: 1869
Ion Ratio Lower Upper
164 100
166 96.2 96.5 144.7#
129 82.6 81.8 122.6
131 83.6 77.7 116.5



#53
Toluene
Concen: 2.850 ppbv
RT: 6.953 min Scan# 2121
Delta R.T. 0.010 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

Tgt Ion: 91 Resp: 120651
Ion Ratio Lower Upper
91 100
92 94.7 47.8 71.6#

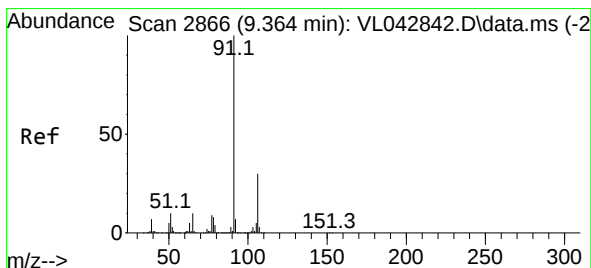
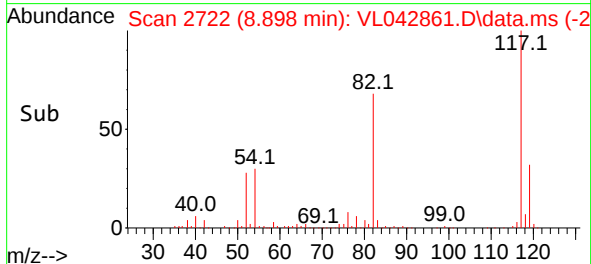
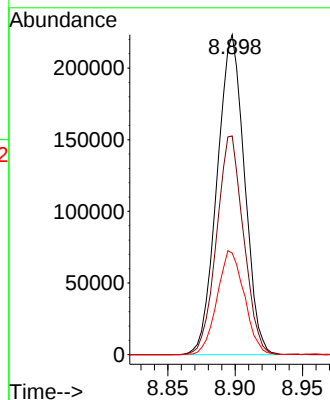
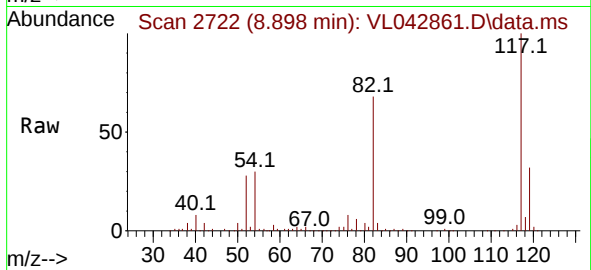




#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 8.898 min Scan# 21
 Delta R.T. 0.010 min
 Lab File: VL042861.D
 Acq: 13 Aug 2025 20:49

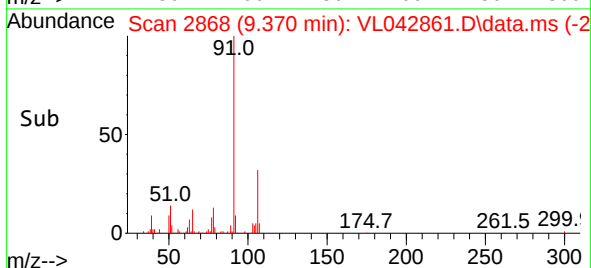
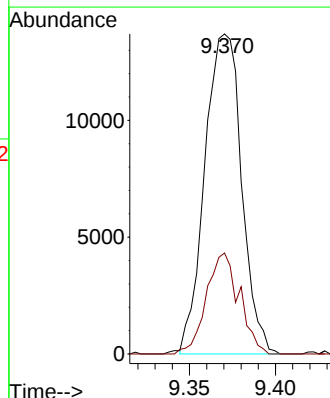
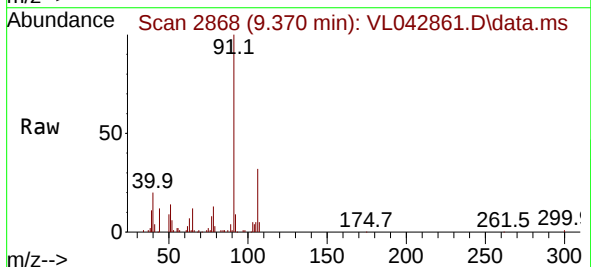
Instrument :
 MSVOA_L
 ClientSampleId :

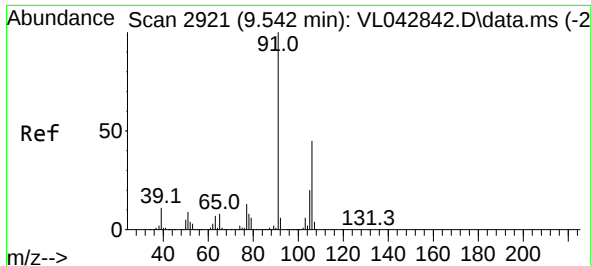
Tgt Ion:117 Resp: 316310
 Ion Ratio Lower Upper
 117 100
 82 67.4 54.6 81.8
 119 32.3 25.9 38.9



#58
 Ethyl Benzene
 Concen: 0.366 ppbv
 RT: 9.370 min Scan# 2868
 Delta R.T. 0.006 min
 Lab File: VL042861.D
 Acq: 13 Aug 2025 20:49

Tgt Ion: 91 Resp: 20426
 Ion Ratio Lower Upper
 91 100
 106 31.5 23.9 35.9





#59

m/p-Xylene

Concen: 1.629 ppbv

RT: 9.545 min Scan# 2921

Delta R.T. 0.003 min

Lab File: VL042861.D

Acq: 13 Aug 2025 20:49

Instrument :

MSVOA_L

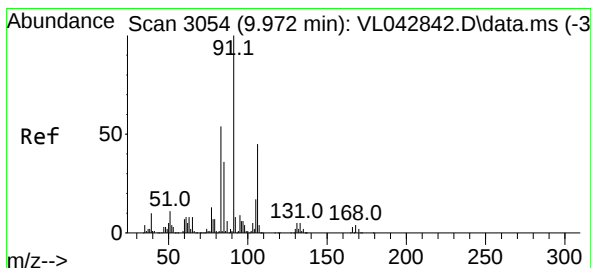
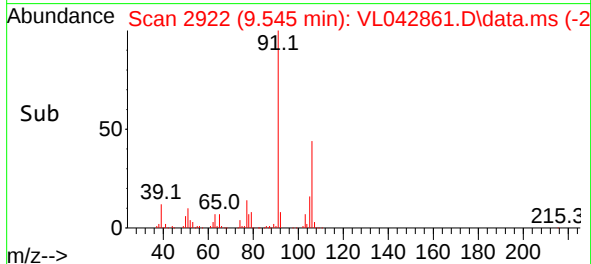
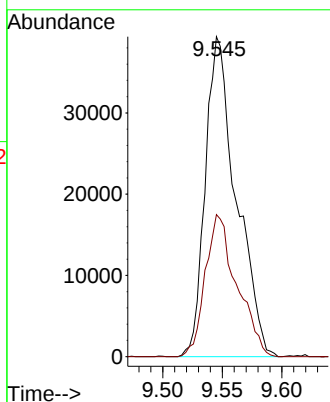
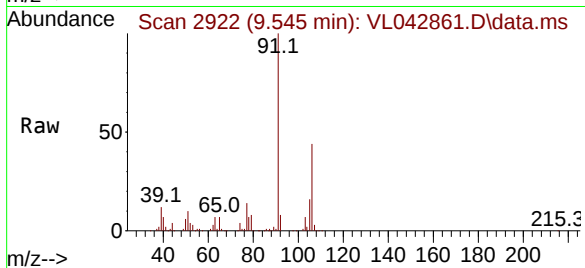
ClientSampleId :

Tgt Ion: 91 Resp: 71285

Ion Ratio Lower Upper

91 100

106 45.2 0.0 0.0#



#60

o-Xylene

Concen: 0.807 ppbv

RT: 9.976 min Scan# 3055

Delta R.T. 0.003 min

Lab File: VL042861.D

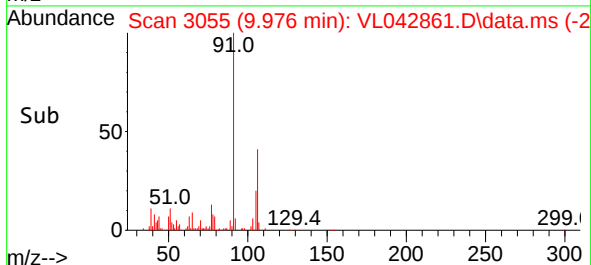
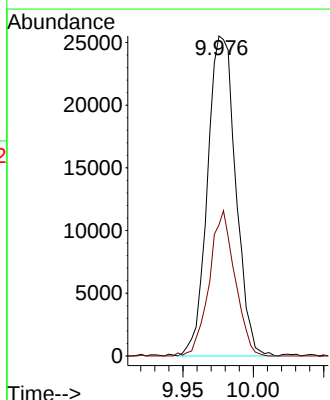
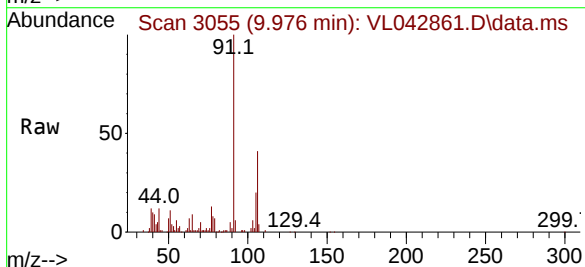
Acq: 13 Aug 2025 20:49

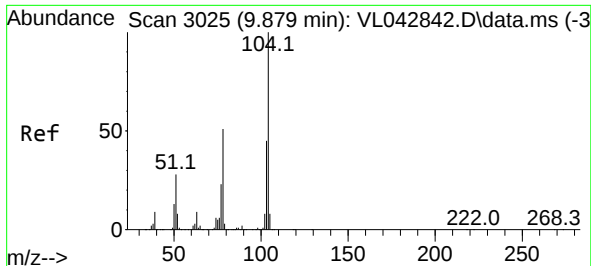
Tgt Ion: 91 Resp: 35539

Ion Ratio Lower Upper

91 100

106 41.4 21.8 65.4

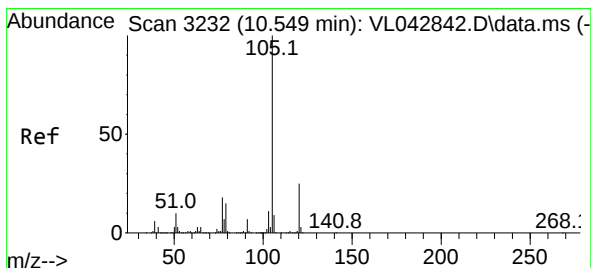
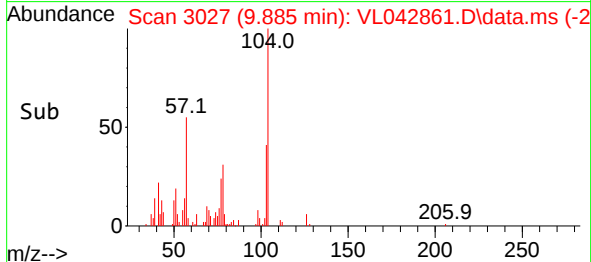
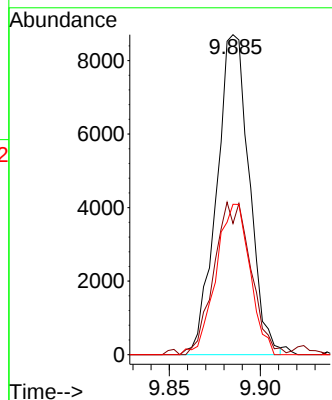
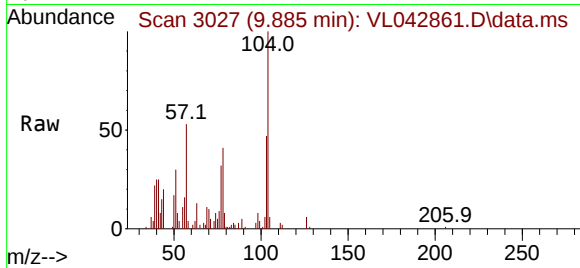




#61
Styrene
Concen: 0.527 ppbv
RT: 9.885 min Scan# 3025
Delta R.T. 0.006 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

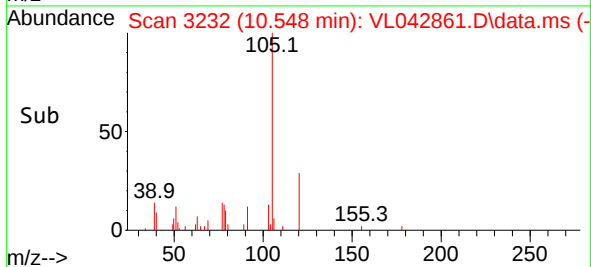
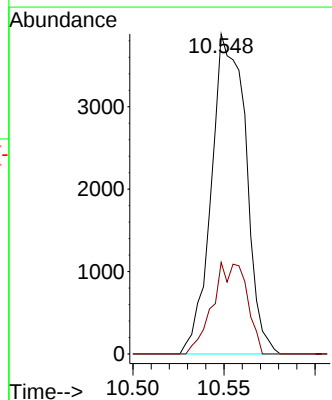
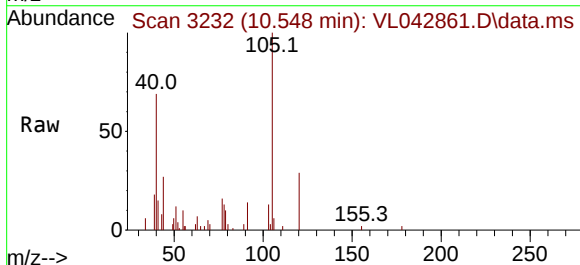
Instrument :
MSVOA_L
ClientSampleId :

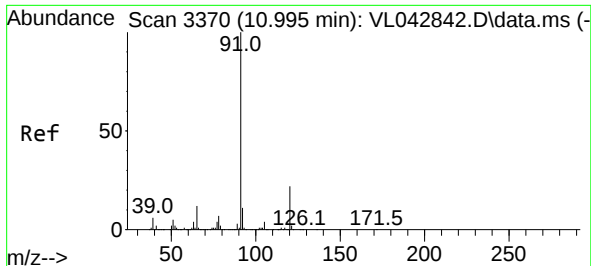
Tgt Ion:104 Resp: 10873
Ion Ratio Lower Upper
104 100
78 55.5 40.6 61.0
103 48.8 37.7 56.5



#62
Isopropylbenzene
Concen: 0.079 ppbv
RT: 10.548 min Scan# 3232
Delta R.T. -0.000 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

Tgt Ion:105 Resp: 5105
Ion Ratio Lower Upper
105 100
120 28.4 20.6 30.8

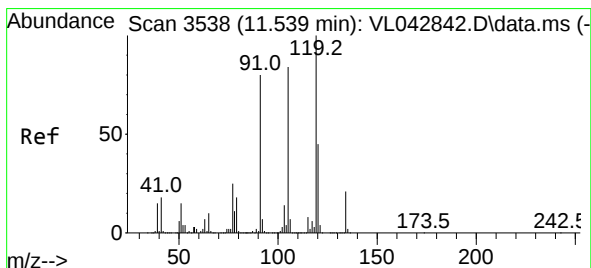
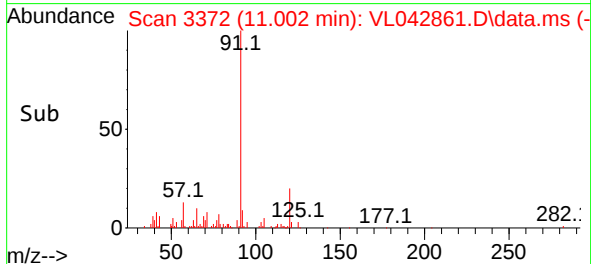
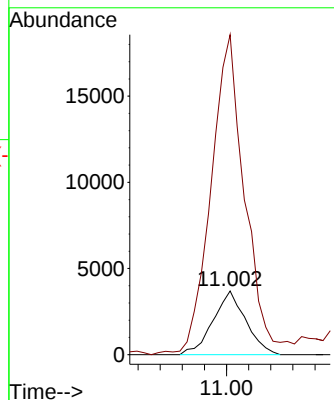
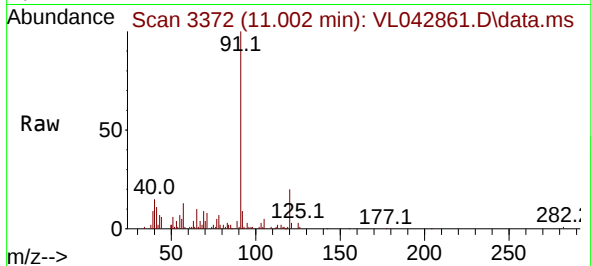




#64
n-propylbenzene
Concen: 0.232 ppbv
RT: 11.002 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

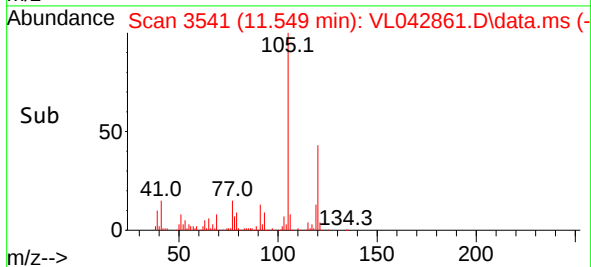
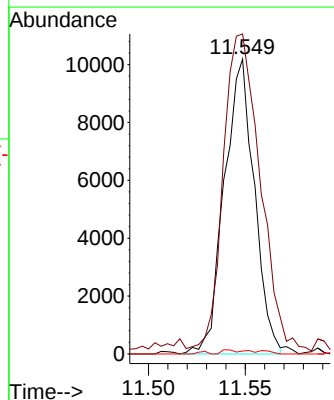
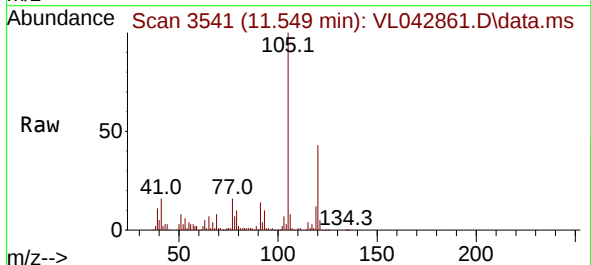
Instrument :
MSVOA_L
ClientSampleId :

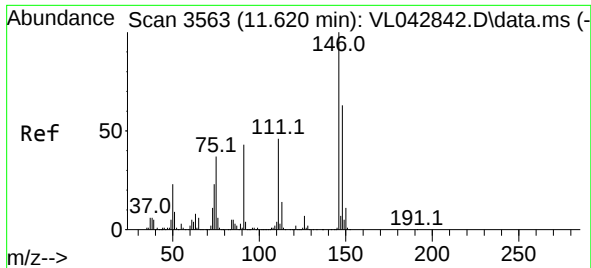
Tgt Ion:120 Resp: 3809
Ion Ratio Lower Upper
120 100
91 522.1 375.8 563.6



#65
tert-Butylbenzene
Concen: 0.194 ppbv
RT: 11.549 min Scan# 3541
Delta R.T. 0.010 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

Tgt Ion:119 Resp: 11019
Ion Ratio Lower Upper
119 100
91 135.5 63.9 95.9#
134 0.0 17.0 25.4#

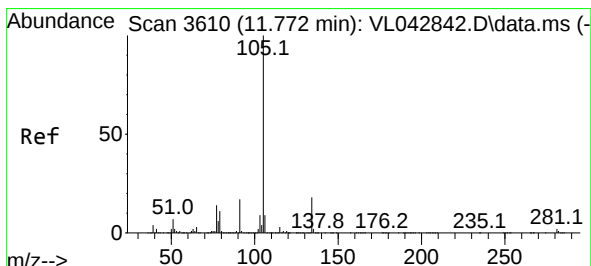
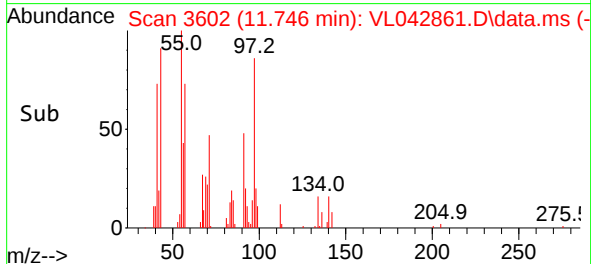
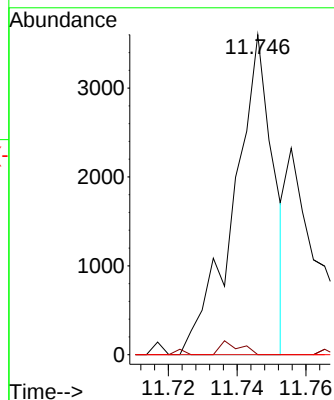
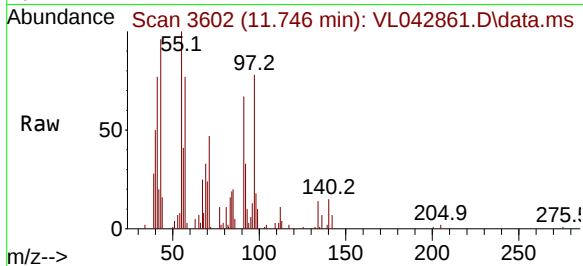




#66
Benzyl Chloride
Concen: 0.401 ppbv
RT: 11.746 min Scan# 3062
Delta R.T. 0.126 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

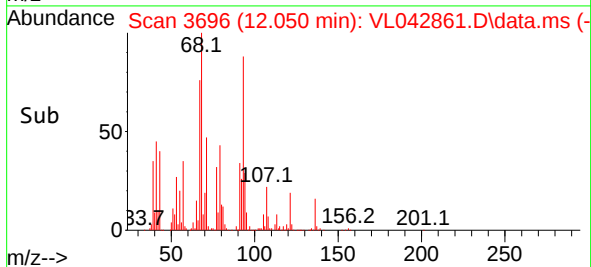
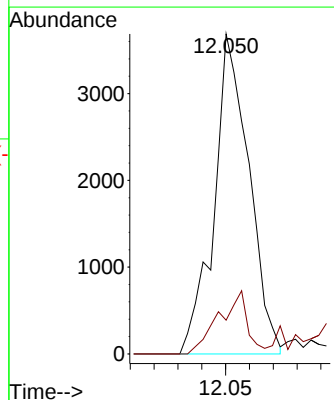
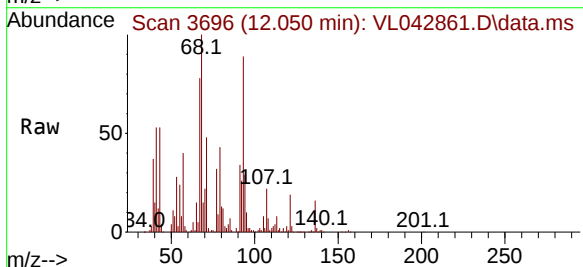
Instrument :
MSVOA_L
ClientSampleId :

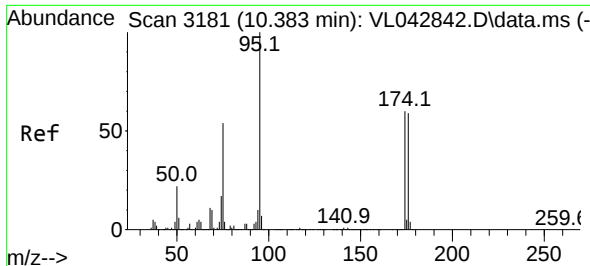
Tgt Ion: 91 Resp: 2886
Ion Ratio Lower Upper
91 100
126 1.0 14.2 21.4#
128 0.0 5.0 7.6#



#67
sec-Butylbenzene
Concen: 0.047 ppbv
RT: 12.050 min Scan# 3696
Delta R.T. 0.278 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

Tgt Ion: 105 Resp: 3742
Ion Ratio Lower Upper
105 100
134 16.8 14.9 22.3

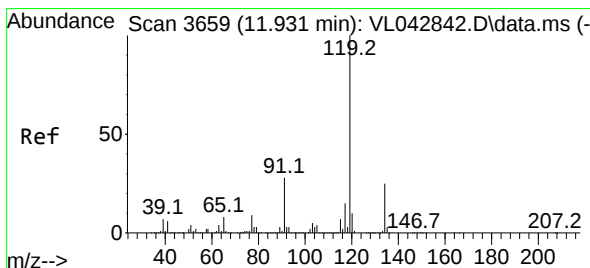
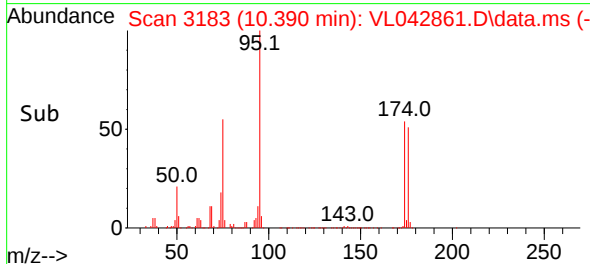
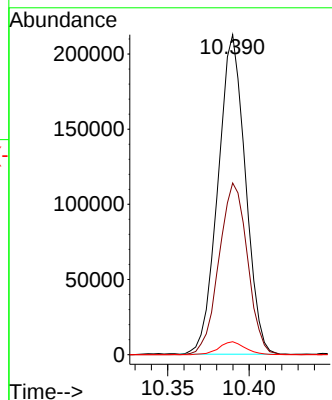
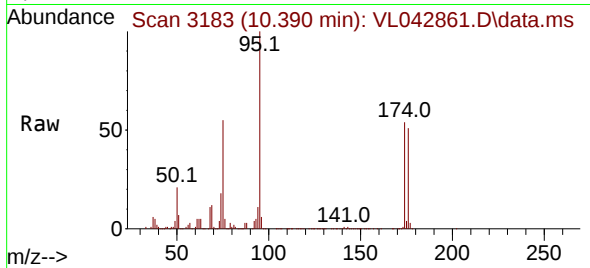




#68
1-Bromo-4-Fluorobenzene
Concen: 10.430 ppbv
RT: 10.390 min Scan# 3181
Delta R.T. 0.006 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

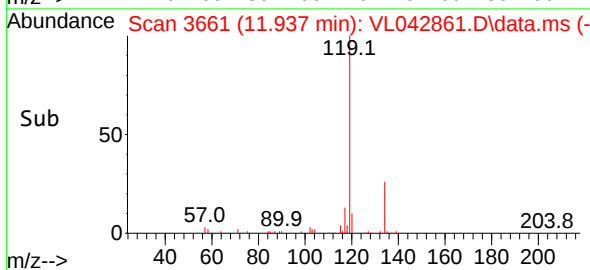
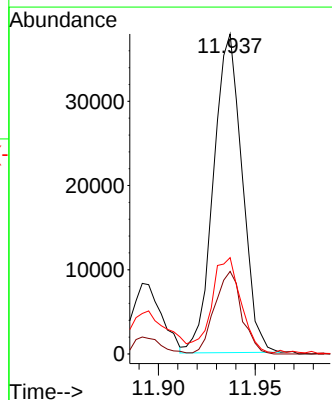
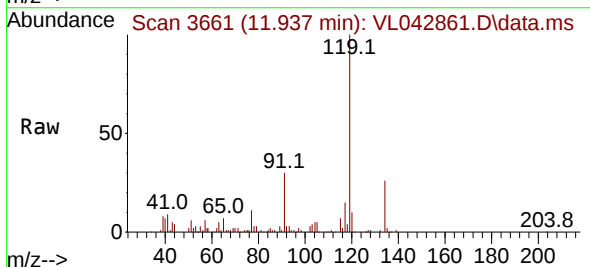
Instrument :
MSVOA_L
ClientSampleId :

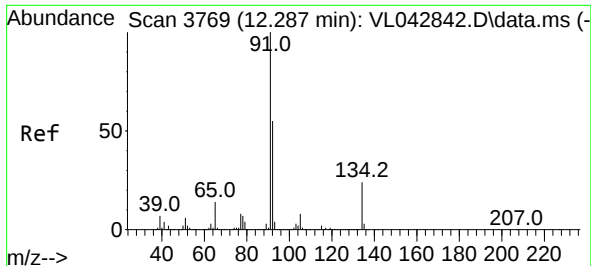
Tgt Ion: 95 Resp: 247433
Ion Ratio Lower Upper
95 100
174 56.1 48.4 72.6
175 3.9 3.8 5.8



#69
p-Isopropyltoluene
Concen: 0.570 ppbv
RT: 11.937 min Scan# 3661
Delta R.T. 0.006 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

Tgt Ion: 119 Resp: 38968
Ion Ratio Lower Upper
119 100
134 24.5 20.6 30.8
91 31.8 22.6 34.0

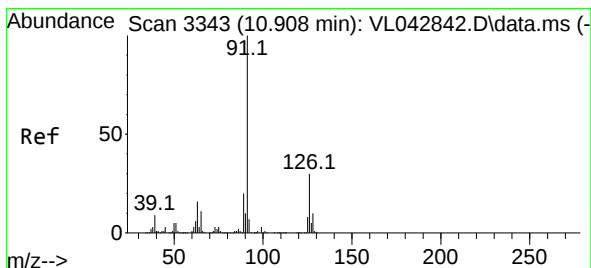
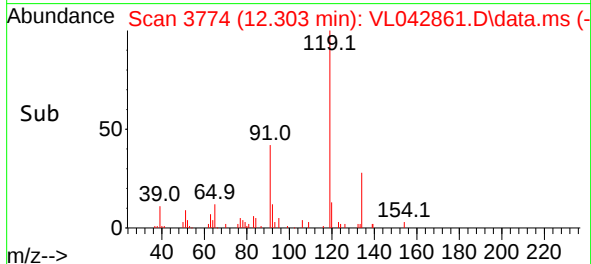
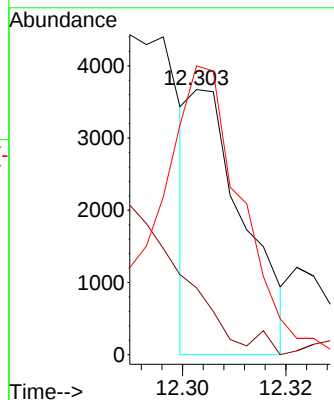
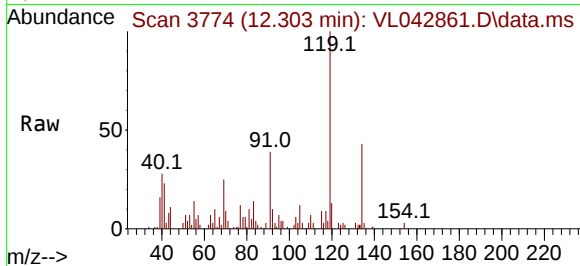




#70
n-Butylbenzene
Concen: 0.039 ppbv
RT: 12.303 min Scan# 31
Delta R.T. 0.016 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

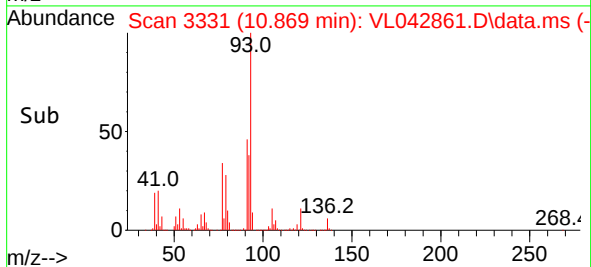
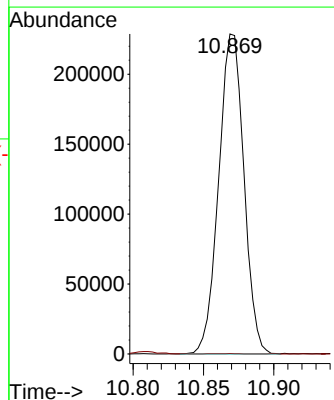
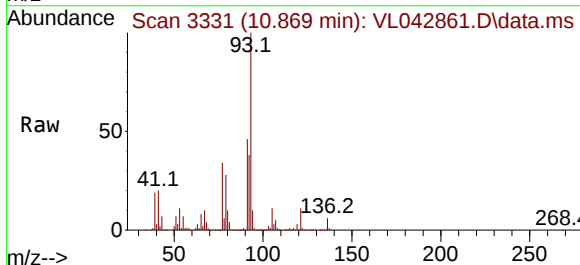
Instrument :
MSVOA_L
ClientSampleId :

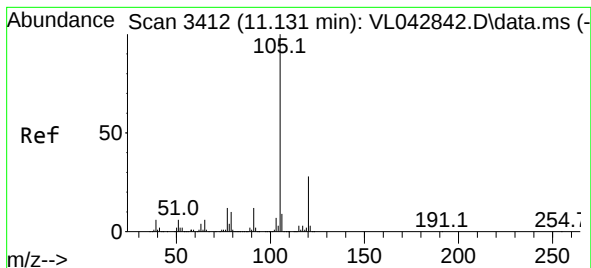
Tgt Ion: 91 Resp: 2657
Ion Ratio Lower Upper
91 100
92 0.0 44.6 66.8#
134 224.5 19.0 28.4#



#71
2-Chlorotoluene
Concen: 5.718 ppbv
RT: 10.869 min Scan# 3331
Delta R.T. -0.039 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

Tgt Ion: 91 Resp: 285592
Ion Ratio Lower Upper
91 100
126 0.1 12.0 47.8#

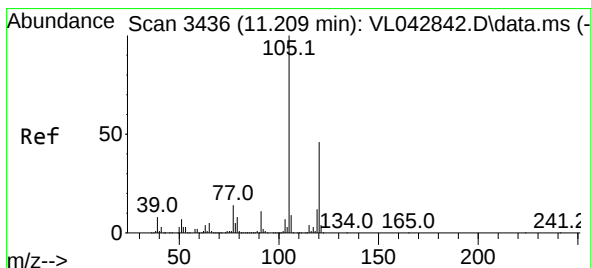
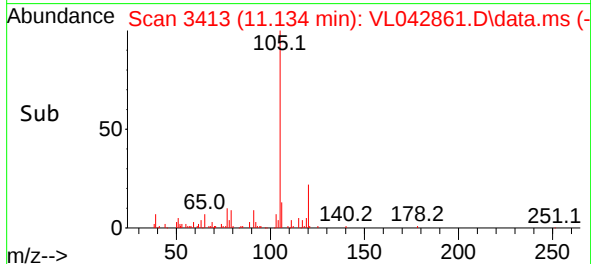
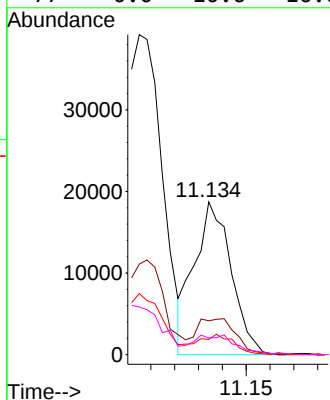
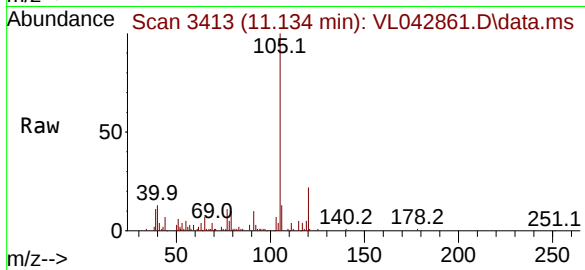




#72
4-Ethyltoluene
Concen: 0.379 ppbv
RT: 11.134 min Scan# 3412
Delta R.T. 0.003 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

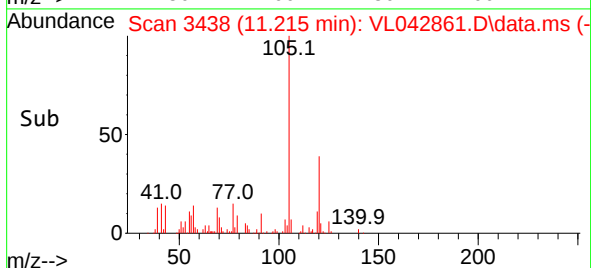
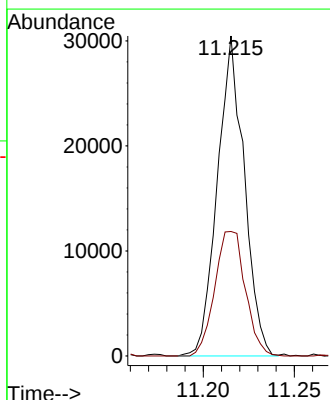
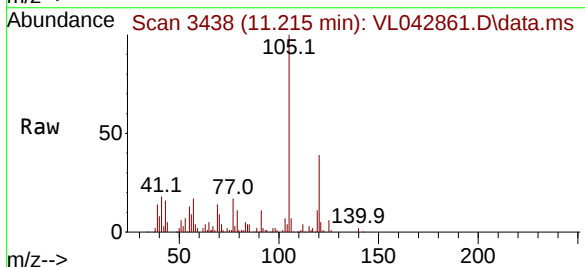
Instrument :
MSVOA_L
ClientSampleId :

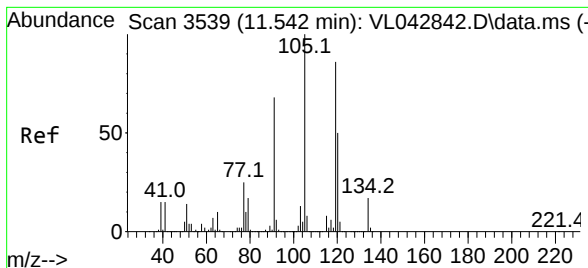
Tgt Ion:105 Resp: 20240
Ion Ratio Lower Upper
105 100
120 0.0 23.4 35.2#
91 0.0 9.8 14.6#
77 0.0 10.6 16.0#



#73
1,3,5-Trimethylbenzene
Concen: 0.687 ppbv
RT: 11.215 min Scan# 3438
Delta R.T. 0.006 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

Tgt Ion:105 Resp: 31153
Ion Ratio Lower Upper
105 100
120 38.9 36.6 54.8





#74

1,2,4-Trimethylbenzene

Concen: 1.808 ppbv

RT: 11.545 min Scan# 3540

Delta R.T. 0.003 min

Lab File: VL042861.D

Acq: 13 Aug 2025 20:49

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:105 Resp: 90034

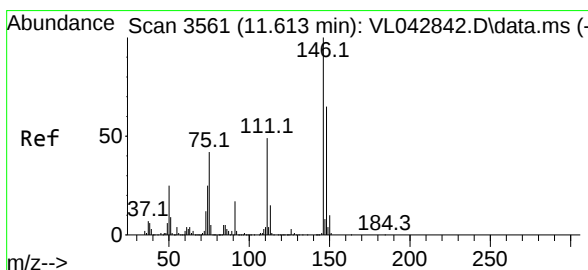
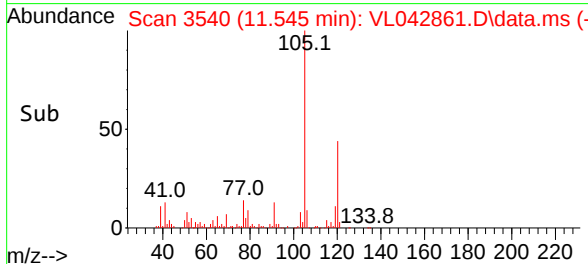
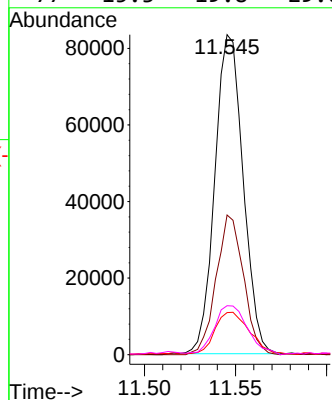
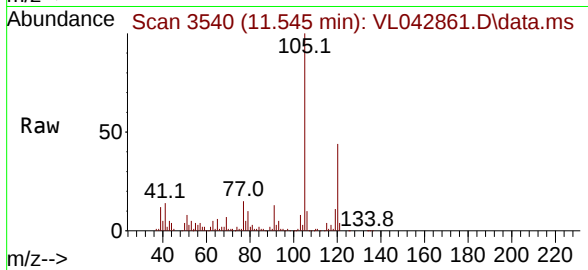
Ion Ratio Lower Upper

105 100

120 43.8 39.8 59.6

91 13.0 54.2 81.4#

77 15.3 19.8 29.6#



#75

1,3-Dichlorobenzene

Concen: 0.087 ppbv

RT: 11.681 min Scan# 3582

Delta R.T. 0.068 min

Lab File: VL042861.D

Acq: 13 Aug 2025 20:49

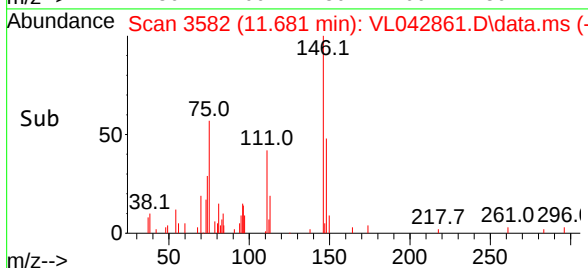
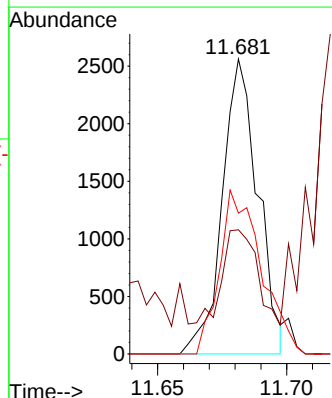
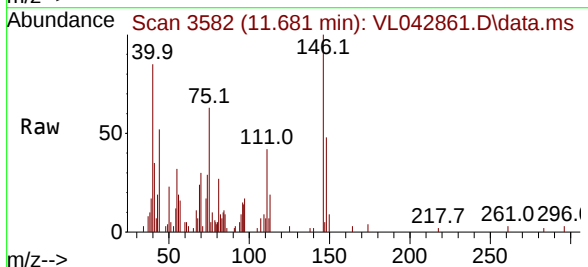
Tgt Ion:146 Resp: 2451

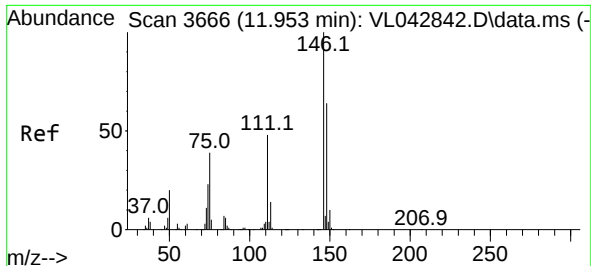
Ion Ratio Lower Upper

146 100

111 55.4 23.9 71.7

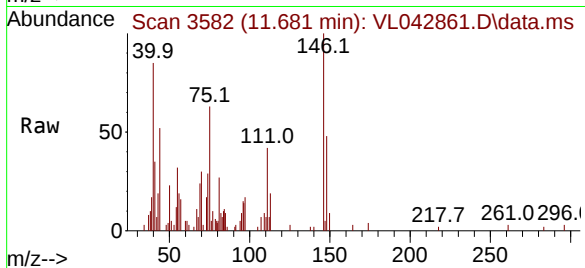
148 65.2 31.4 94.0



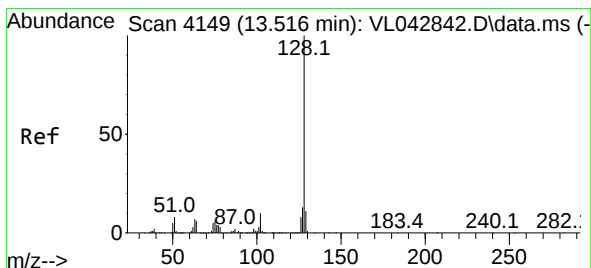
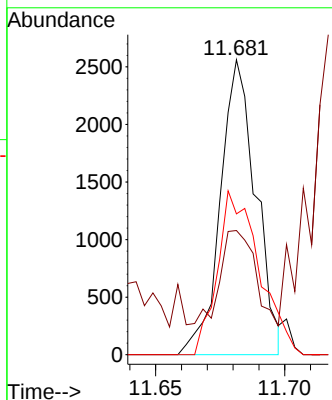
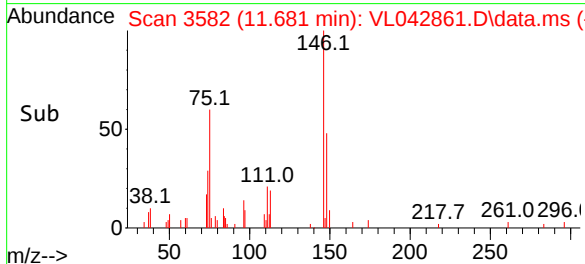


#77
1,2-Dichlorobenzene
Concen: 0.088 ppbv
RT: 11.681 min Scan# 31
Delta R.T. -0.272 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49

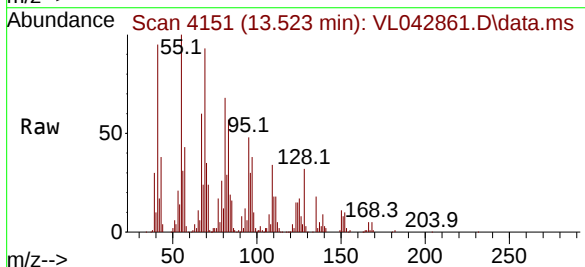
Instrument :
MSVOA_L
ClientSampleId :



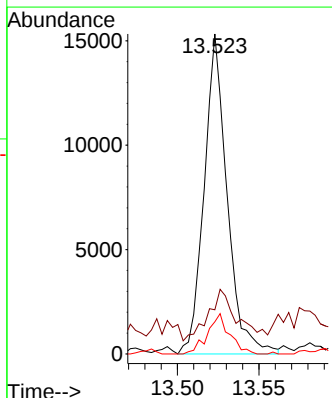
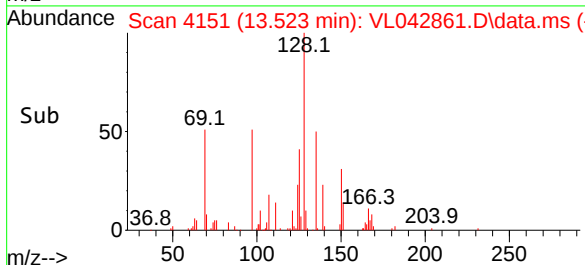
Tgt Ion:146 Resp: 2451
Ion Ratio Lower Upper
146 100
111 35.5 24.6 74.0
148 65.2 32.0 96.0

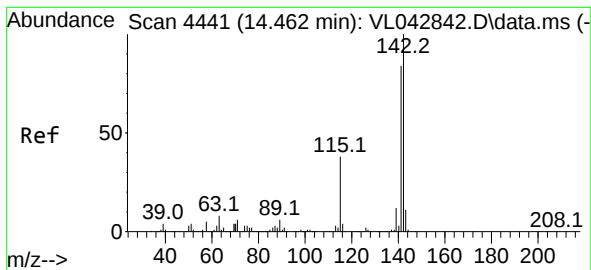


#79
Naphthalene
Concen: 0.333 ppbv
RT: 13.523 min Scan# 4151
Delta R.T. 0.006 min
Lab File: VL042861.D
Acq: 13 Aug 2025 20:49



Tgt Ion:128 Resp: 15027
Ion Ratio Lower Upper
128 100
127 4.6 10.6 16.0#
129 10.0 8.9 13.3





#80

Naphthalene, 2-methyl-

Concen: 0.116 ppbv

RT: 14.471 min Scan# 44

Delta R.T. 0.010 min

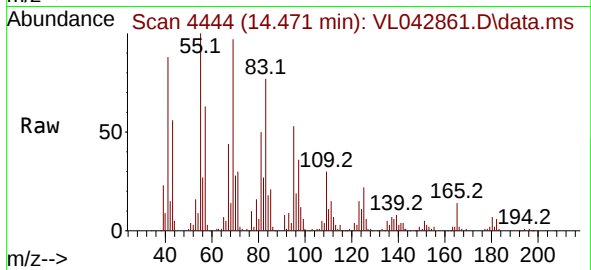
Lab File: VL042861.D

Acq: 13 Aug 2025 20:49

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 142 Resp: 1952

Ion Ratio Lower Upper

142 100

141 145.3 67.0 100.6#

115 113.6 30.9 46.3#

