

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
 Data File : VL042138.D
 Acq On : 10 Mar 2025 22:10
 Operator : SY/MD
 Sample : Q1533-03DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Quant Time: Mar 11 01:32:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	162532	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	392820	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	333862	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	284295	11.068	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.700%

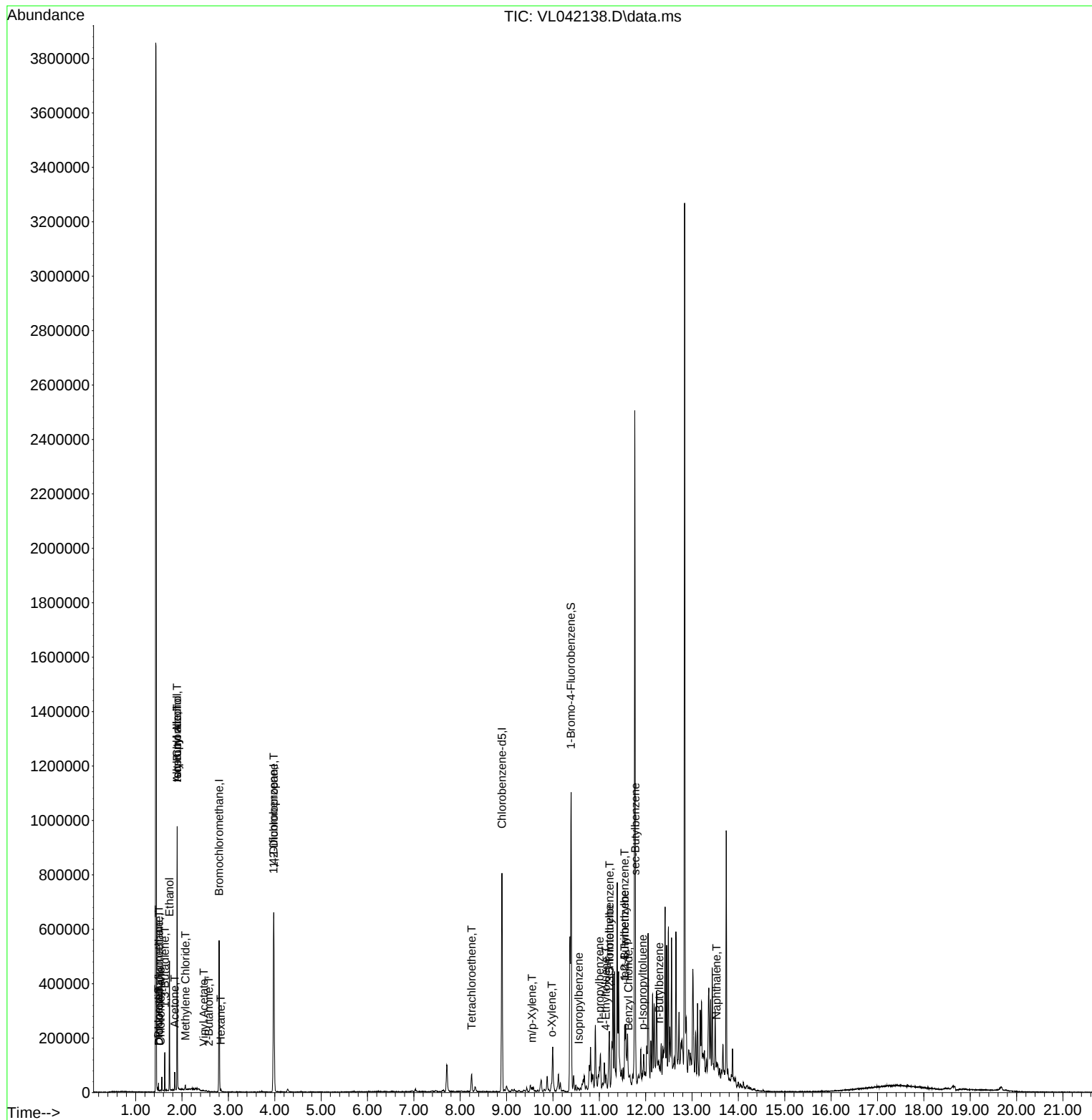
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.502	85	560	0.033	ppbv #	81
4) Chloromethane	1.537	50	737	0.118	ppbv #	69
8) Dichlorotetrafluoroethane	1.502	85	560	0.040	ppbv #	16
9) Propene	1.492	41	2333	0.242	ppbv	92
13) Ethanol	1.728	45	162279	265.641	ppbv	92
15) Acetone	1.842	43	29048	2.024	ppbv	96
16) 1,3-Butadiene	1.628	39	6646	0.995	ppbv #	18
17) tert-Butyl alcohol	1.894	59	15117	0.842	ppbv	100
19) Isopropyl Alcohol	1.894	45	400028	48.519	ppbv #	34
20) Methylene Chloride	2.072	84	2493	0.459	ppbv #	67
21) Allyl Chloride	1.894	41	36055	3.477	ppbv #	80
23) Vinyl Acetate	2.473	43	313	0.031	ppbv #	58
26) Hexane	2.839	57	1780	0.077	ppbv #	38
34) 2-Butanone	2.576	43	2152	0.070	ppbv #	89
39) 1,2-Dichloropropane	3.978	63	99242	6.358	ppbv #	22
52) Tetrachloroethene	8.247	164	11476	0.815	ppbv	92
59) m/p-Xylene	9.548	91	6552	0.134	ppbv #	100
60) o-Xylene	9.975	91	4066	0.083	ppbv	76
62) Isopropylbenzene	10.555	105	2491	0.034	ppbv	97
64) n-propylbenzene	11.005	120	3520	0.182	ppbv	87
65) tert-Butylbenzene	11.548	119	9029	0.135	ppbv #	48
66) Benzyl Chloride	11.629	91	446	0.087	ppbv #	65
67) sec-Butylbenzene	11.778	105	11268	0.118	ppbv #	71
69) p-Isopropyltoluene	11.937	119	6951	0.091	ppbv #	83
70) n-Butylbenzene	12.293	91	21156	0.272	ppbv #	71
71) 2-Chlorotoluene	11.215	91	2776	0.049	ppbv	81
72) 4-Ethyltoluene	11.141	105	13985	0.233	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.218	105	18094	0.347	ppbv	97
74) 1,2,4-Trimethylbenzene	11.548	105	78977	1.346	ppbv #	58
79) Naphthalene	13.526	128	3867	0.096	ppbv #	71

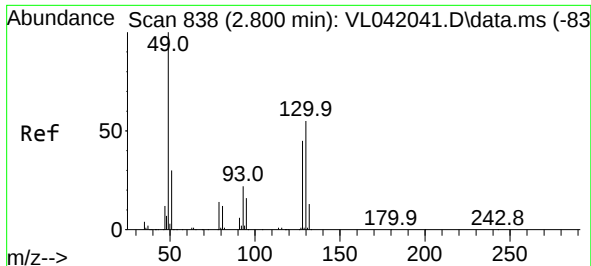
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
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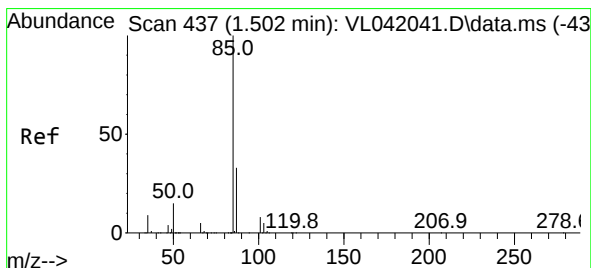
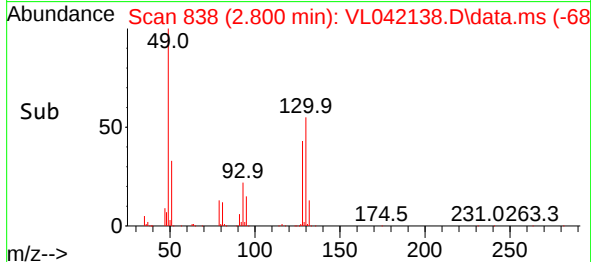
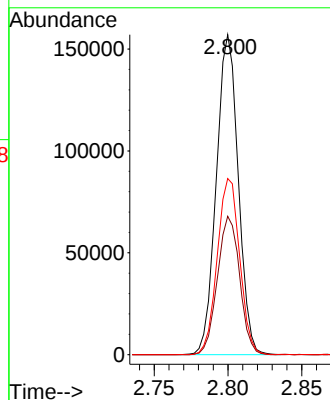
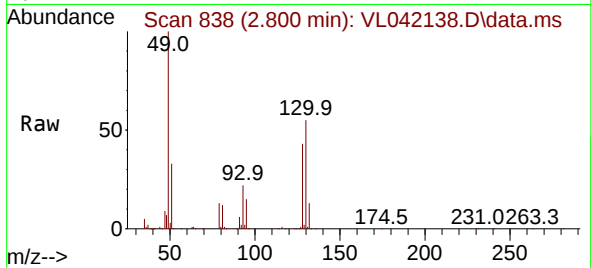




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042138.D
Acq: 10 Mar 2025 22:10

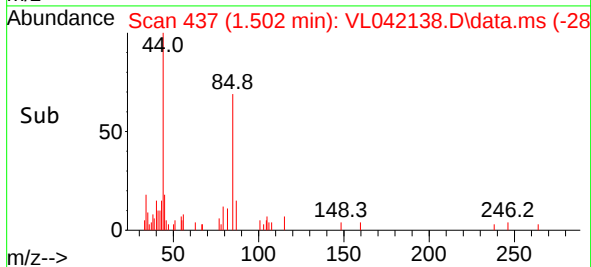
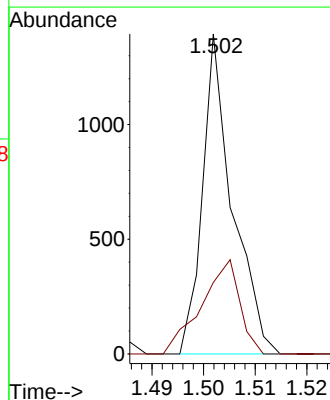
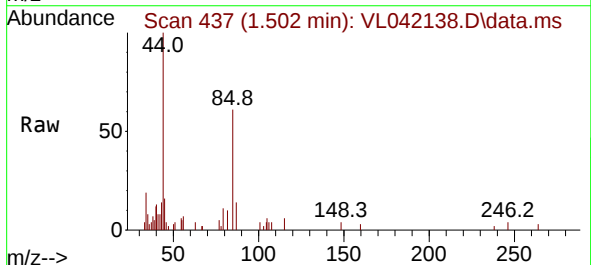
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MSVOA_L
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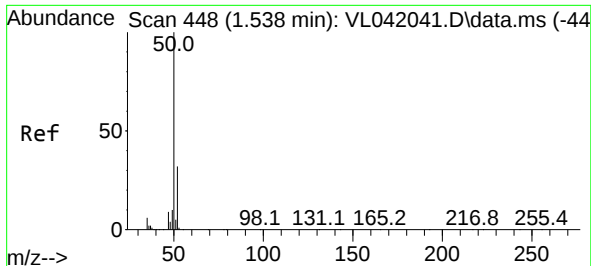
Tgt Ion: 49 Resp: 162532
Ion Ratio Lower Upper
49 100
128 43.8 21.6 64.8
130 56.2 27.8 83.4



#2
Dichlorodifluoromethane
Concen: 0.033 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042138.D
Acq: 10 Mar 2025 22:10

Tgt Ion: 85 Resp: 560
Ion Ratio Lower Upper
85 100
87 22.4 26.4 39.6

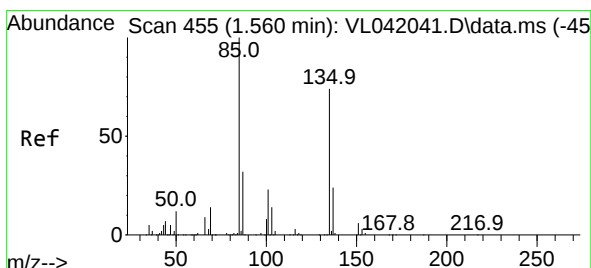
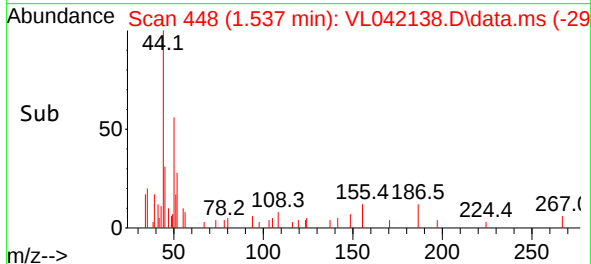
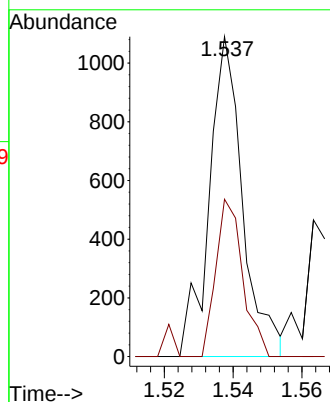
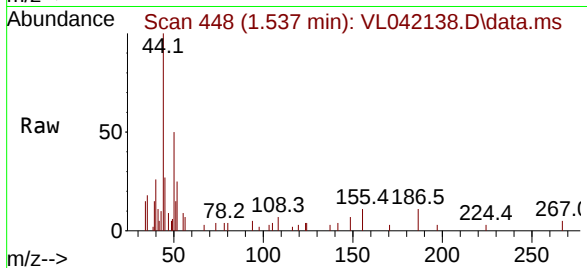




#4
Chloromethane
Concen: 0.118 ppbv
RT: 1.537 min Scan# 441
Delta R.T. -0.000 min
Lab File: VL042138.D
Acq: 10 Mar 2025 22:10

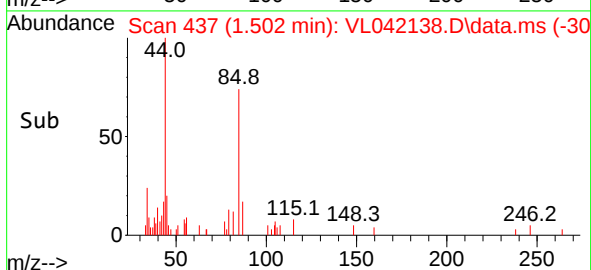
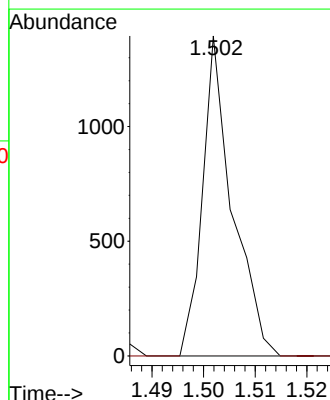
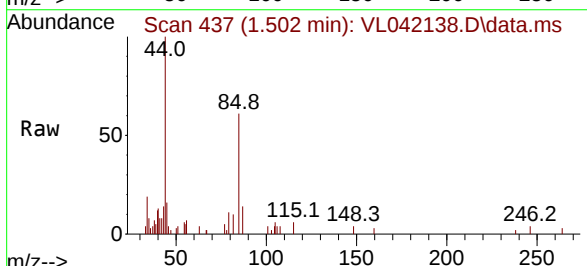
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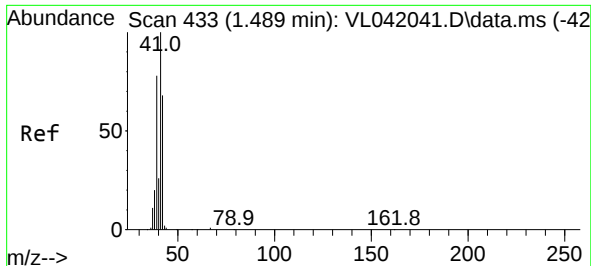
Tgt Ion: 50 Resp: 737
Ion Ratio Lower Upper
50 100
52 49.2 25.4 38.0#



#8
Dichlorotetrafluoroethane
Concen: 0.040 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.059 min
Lab File: VL042138.D
Acq: 10 Mar 2025 22:10

Tgt Ion: 85 Resp: 560
Ion Ratio Lower Upper
85 100
135 0.0 54.6 81.8#





#9

Propene

Concen: 0.242 ppbv

RT: 1.492 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042138.D

Acq: 10 Mar 2025 22:10

Instrument :

MSVOA_L

ClientSampleId :

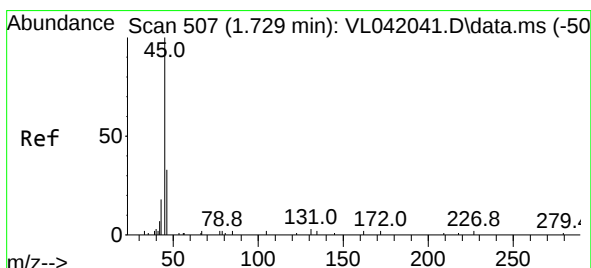
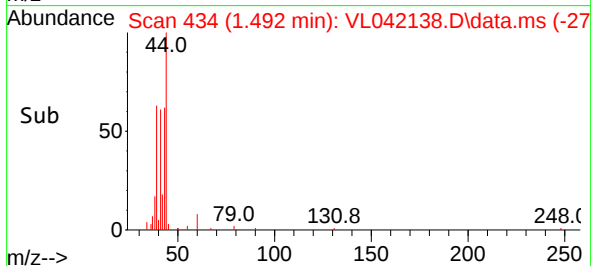
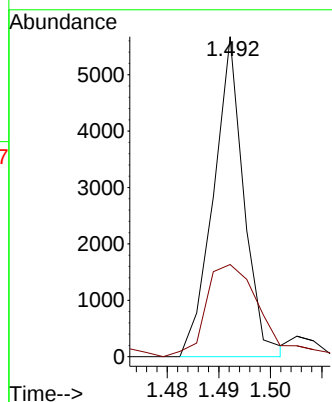
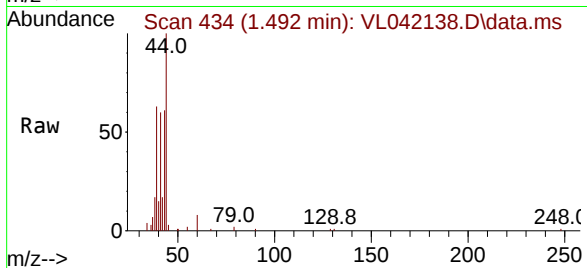
SV2DL

Tgt Ion: 41 Resp: 2333

Ion Ratio Lower Upper

41 100

42 62.9 55.8 83.6



#13

Ethanol

Concen: 265.641 ppbv

RT: 1.728 min Scan# 507

Delta R.T. -0.000 min

Lab File: VL042138.D

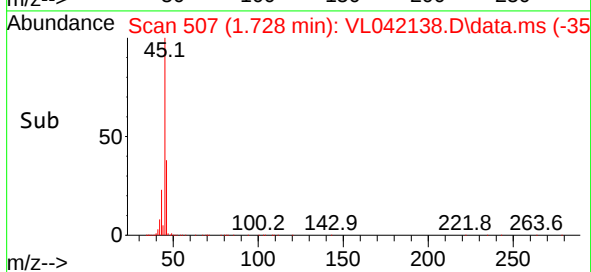
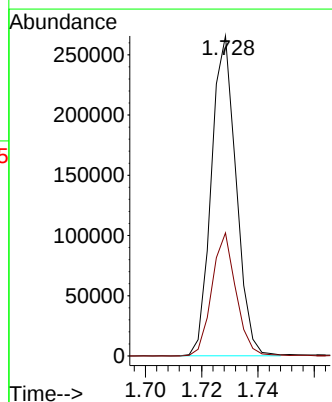
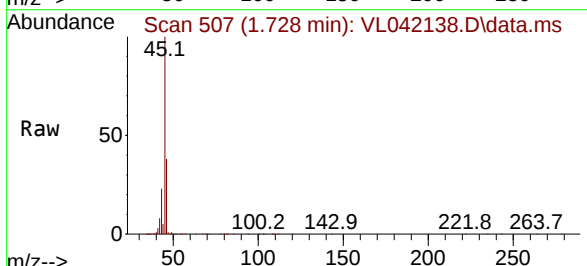
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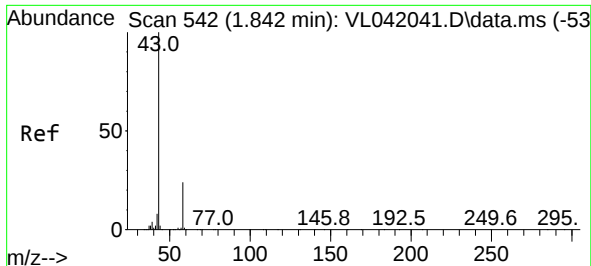
Tgt Ion: 45 Resp: 162279

Ion Ratio Lower Upper

45 100

46 37.8 17.1 68.3

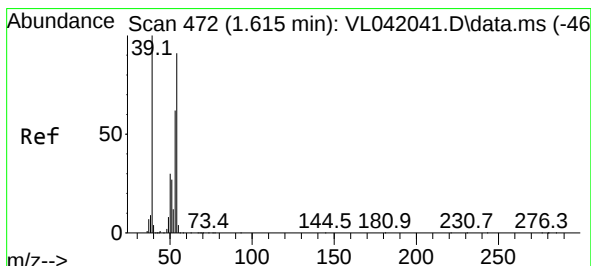
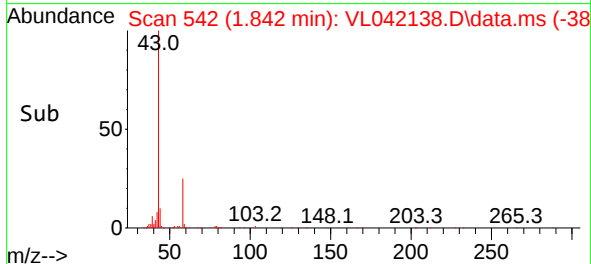
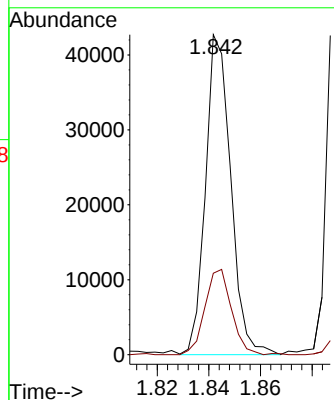
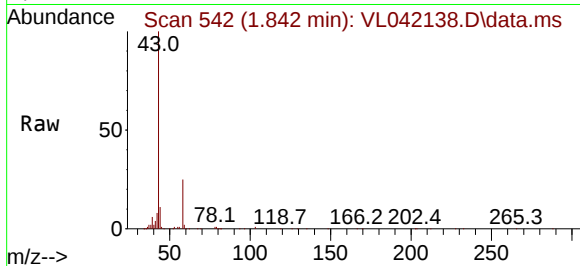




#15
Acetone
Concen: 2.024 ppbv
RT: 1.842 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042138.D
Acq: 10 Mar 2025 22:10

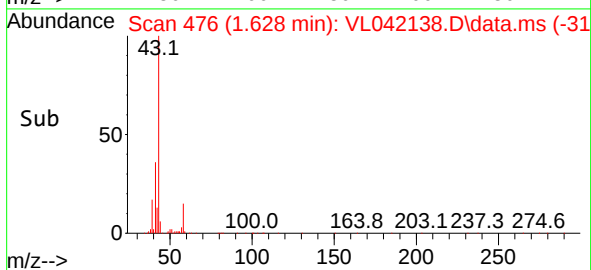
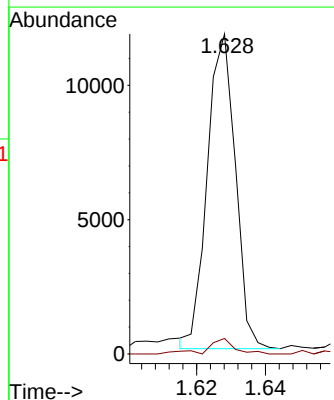
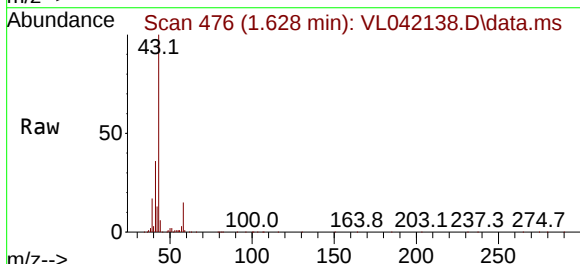
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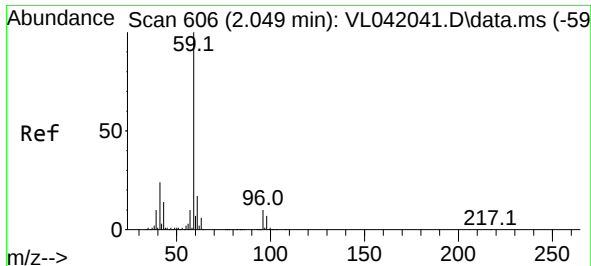
Tgt Ion: 43 Resp: 29048
Ion Ratio Lower Upper
43 100
58 28.0 20.7 31.1



#16
1,3-Butadiene
Concen: 0.995 ppbv
RT: 1.628 min Scan# 476
Delta R.T. 0.013 min
Lab File: VL042138.D
Acq: 10 Mar 2025 22:10

Tgt Ion: 39 Resp: 6646
Ion Ratio Lower Upper
39 100
54 4.7 59.6 89.4#

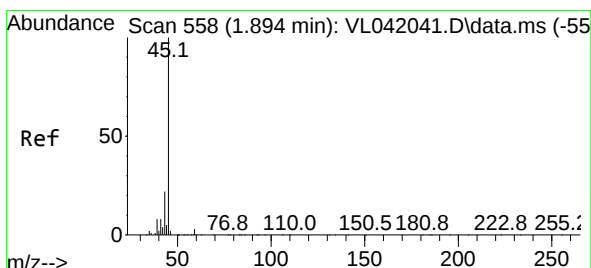
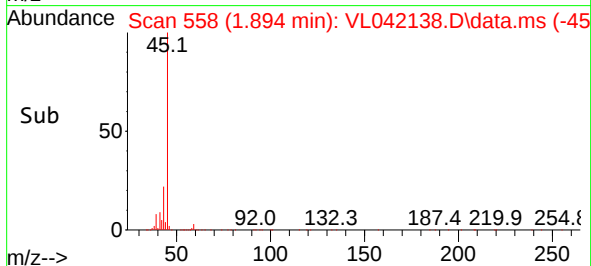
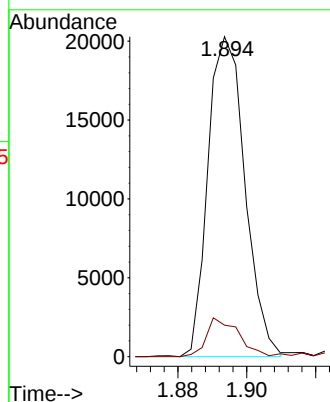
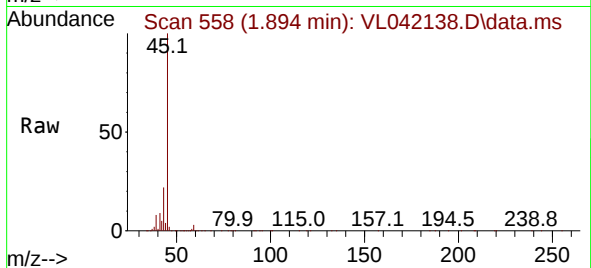




#17
tert-Butyl alcohol
Concen: 0.842 ppbv
RT: 1.894 min Scan# 51
Delta R.T. -0.156 min
Lab File: VL042138.D
Acq: 10 Mar 2025 22:10

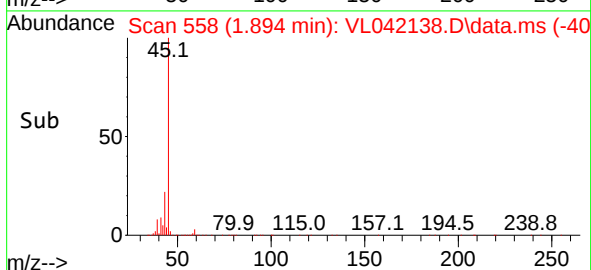
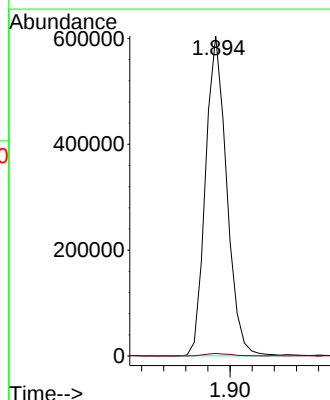
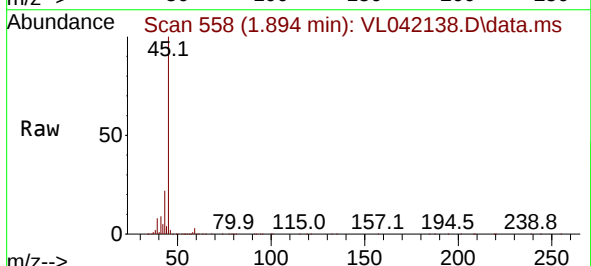
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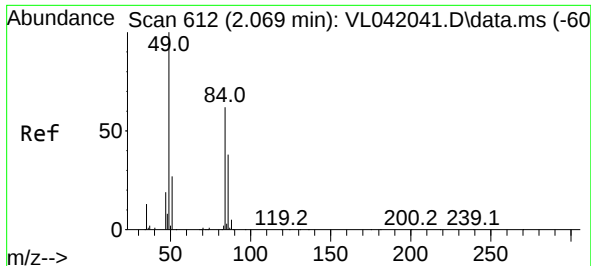
Tgt Ion: 59 Resp: 15117
Ion Ratio Lower Upper
59 100
57 11.5 9.3 13.9



#19
Isopropyl Alcohol
Concen: 48.519 ppbv
RT: 1.894 min Scan# 558
Delta R.T. -0.000 min
Lab File: VL042138.D
Acq: 10 Mar 2025 22:10

Tgt Ion: 45 Resp: 400028
Ion Ratio Lower Upper
45 100
58 1.1 35.3 52.9#

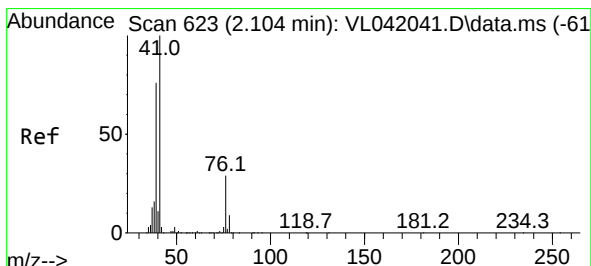
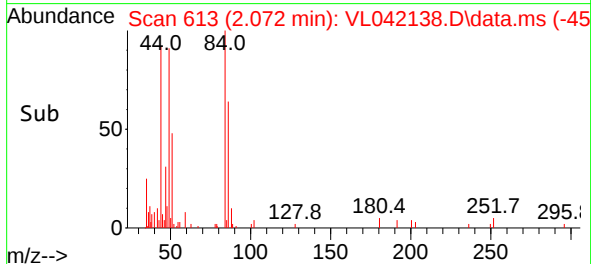
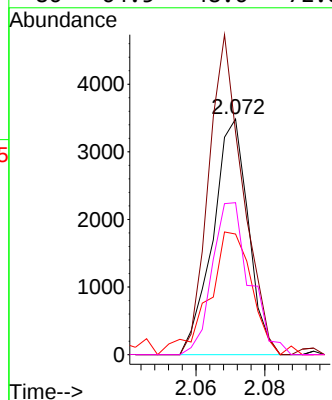
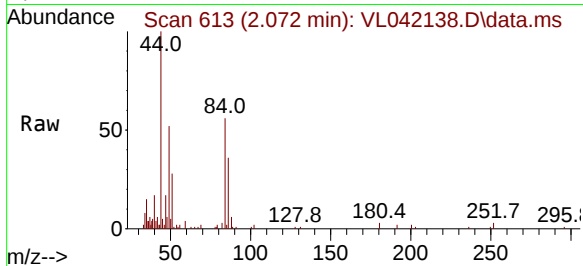




#20
Methylene Chloride
Concen: 0.459 ppbv
RT: 2.072 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042138.D
Acq: 10 Mar 2025 22:10

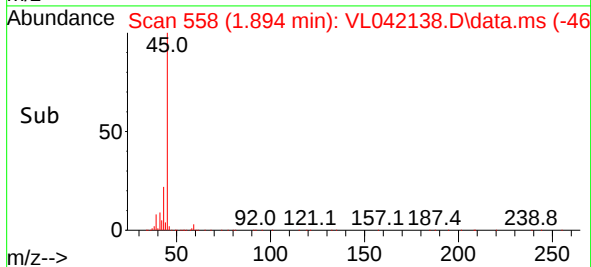
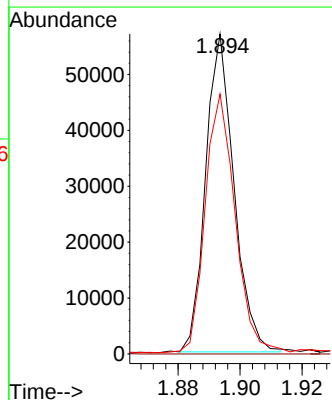
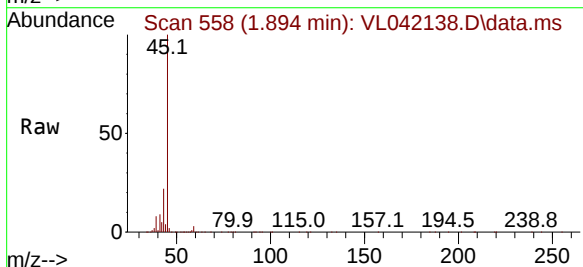
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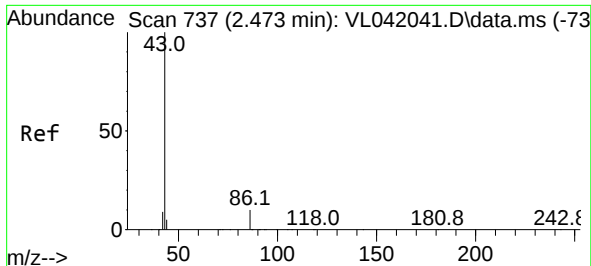
Tgt Ion: 84 Resp: 2493
Ion Ratio Lower Upper
84 100
49 94.4 130.0 195.0#
51 51.2 37.4 56.0
86 64.5 48.6 72.8



#21
Allyl Chloride
Concen: 3.477 ppbv
RT: 1.894 min Scan# 558
Delta R.T. -0.211 min
Lab File: VL042138.D
Acq: 10 Mar 2025 22:10

Tgt Ion: 41 Resp: 36055
Ion Ratio Lower Upper
41 100
76 0.2 23.8 35.6#
39 86.5 63.8 95.6

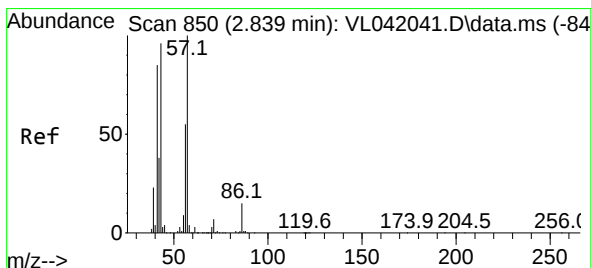
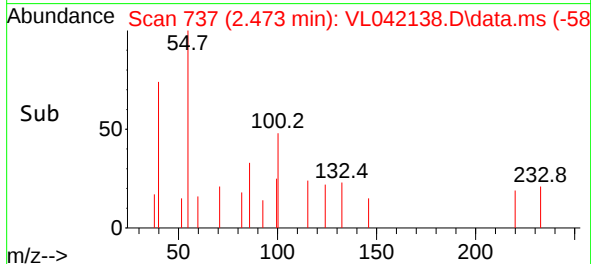
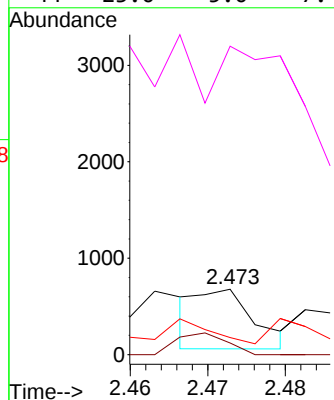
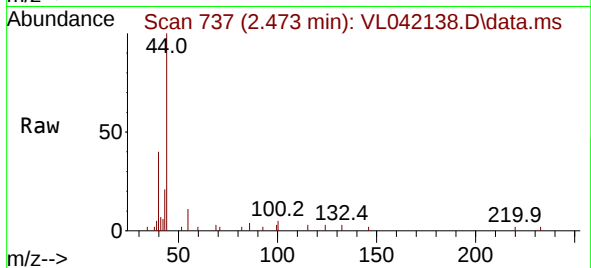




#23
 Vinyl Acetate
 Concen: 0.031 ppbv
 RT: 2.473 min Scan# 71
 Delta R.T. -0.000 min
 Lab File: VL042138.D
 Acq: 10 Mar 2025 22:10

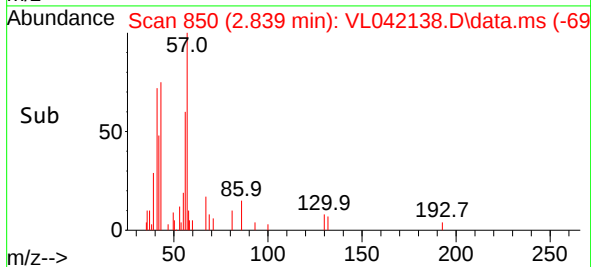
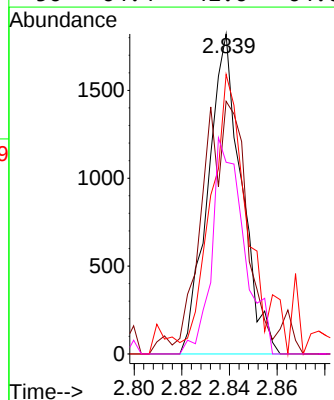
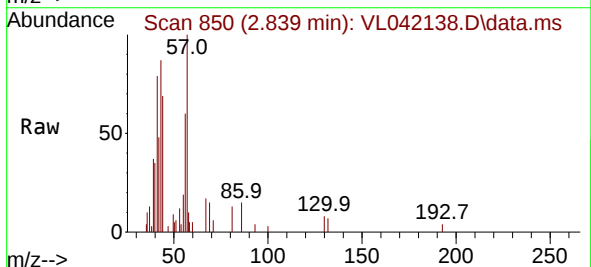
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 MSVOA_L
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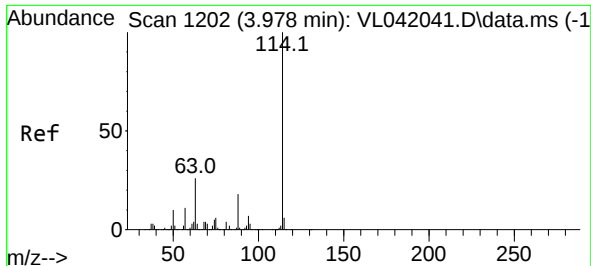
Tgt Ion: 43	Resp: 313
Ion Ratio	Lower Upper
43 100	
86 27.8	7.0 10.4#
42 0.0	7.6 11.4#
44 23.0	5.0 7.4#



#26
 Hexane
 Concen: 0.077 ppbv
 RT: 2.839 min Scan# 850
 Delta R.T. -0.000 min
 Lab File: VL042138.D
 Acq: 10 Mar 2025 22:10

Tgt Ion: 57	Resp: 1780
Ion Ratio	Lower Upper
57 100	
41 109.5	70.6 106.0#
43 100.8	199.4 299.0#
56 64.4	42.6 64.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.975 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL042138.D

Acq: 10 Mar 2025 22:10

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

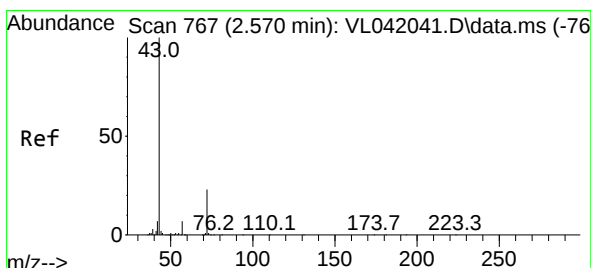
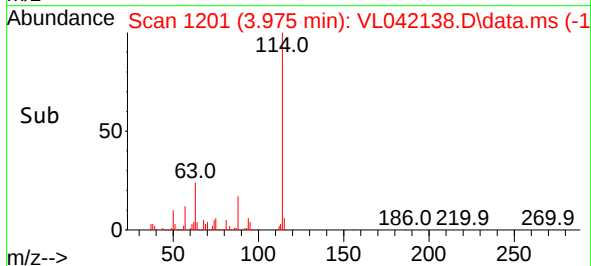
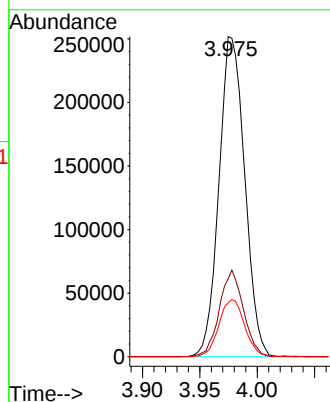
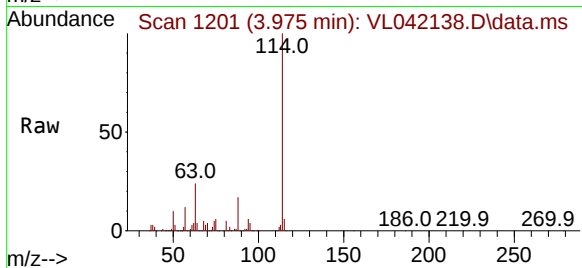
Tgt Ion:114 Resp: 392820

Ion Ratio Lower Upper

114 100

63 25.4 20.1 30.1

88 17.8 14.3 21.5



#34

2-Butanone

Concen: 0.070 ppbv

RT: 2.576 min Scan# 769

Delta R.T. 0.006 min

Lab File: VL042138.D

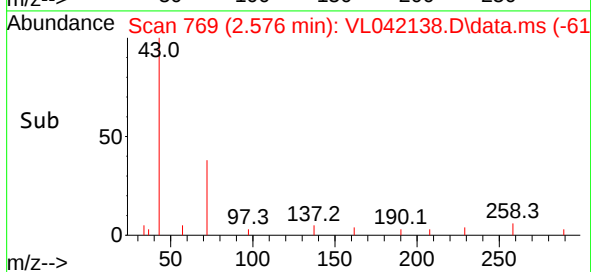
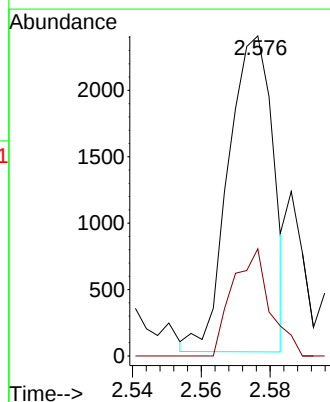
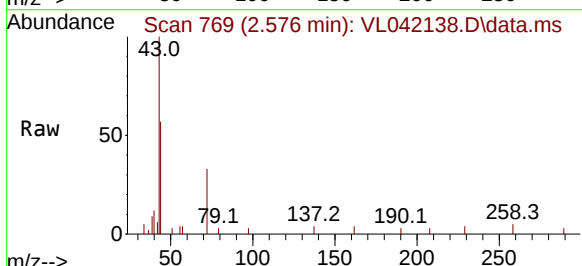
Acq: 10 Mar 2025 22:10

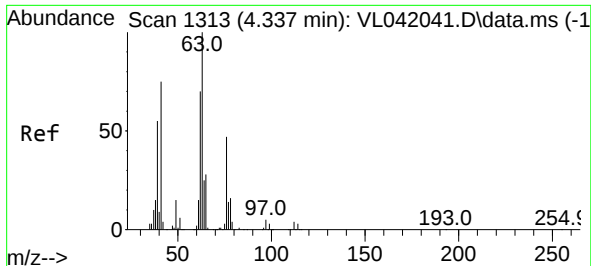
Tgt Ion: 43 Resp: 2152

Ion Ratio Lower Upper

43 100

72 28.4 18.5 27.7#





#39

1,2-Dichloropropane

Concen: 6.358 ppbv

RT: 3.978 min Scan# 11

Delta R.T. -0.360 min

Lab File: VL042138.D

Acq: 10 Mar 2025 22:10

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

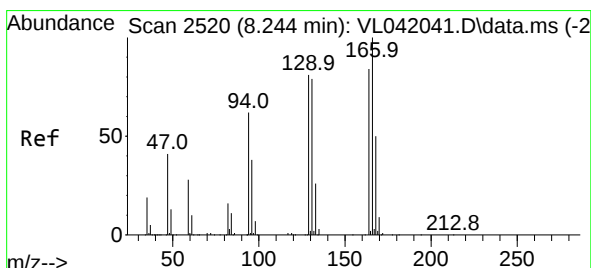
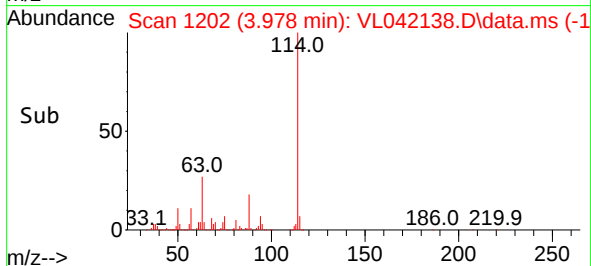
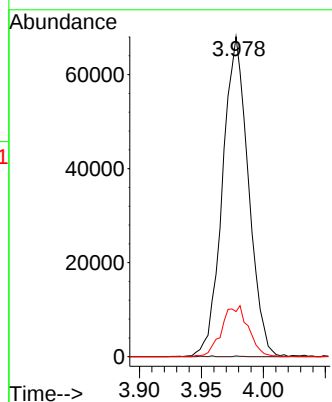
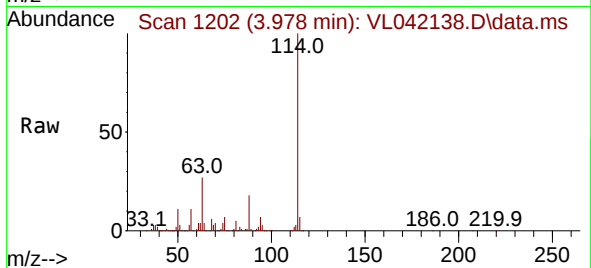
Tgt Ion: 63 Resp: 99242

Ion Ratio Lower Upper

63 100

41 0.3 60.1 90.1#

62 14.1 55.8 83.8#



#52

Tetrachloroethene

Concen: 0.815 ppbv

RT: 8.247 min Scan# 2521

Delta R.T. 0.003 min

Lab File: VL042138.D

Acq: 10 Mar 2025 22:10

Tgt Ion: 164 Resp: 11476

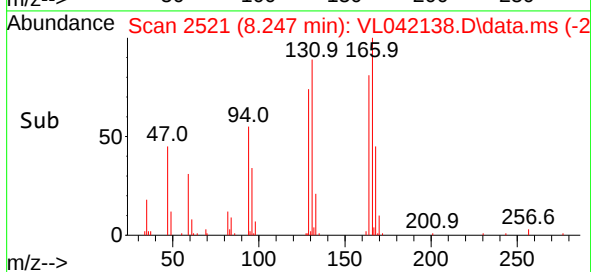
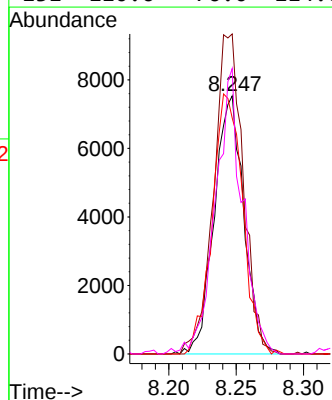
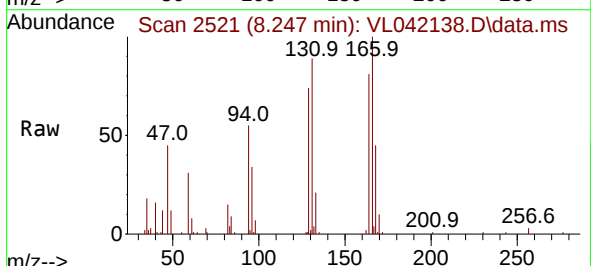
Ion Ratio Lower Upper

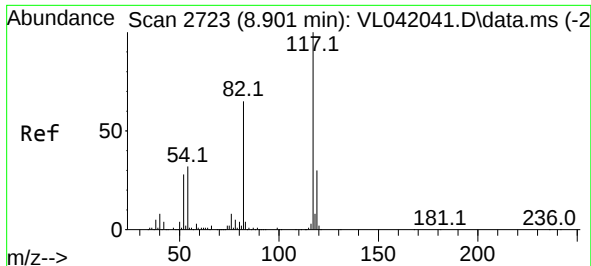
164 100

166 124.0 95.7 143.5

129 91.4 77.1 115.7

131 110.6 76.0 114.0

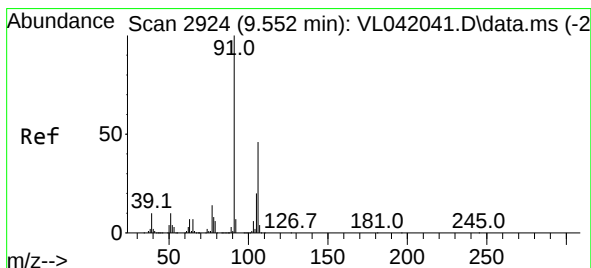
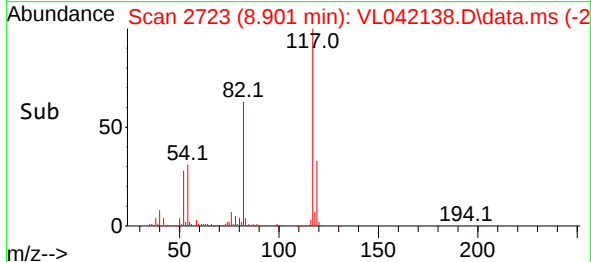
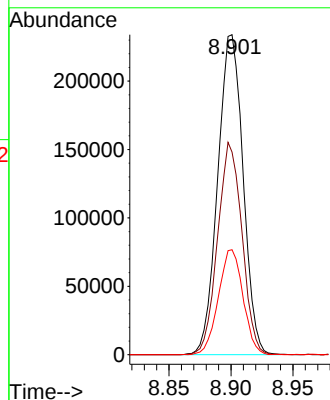
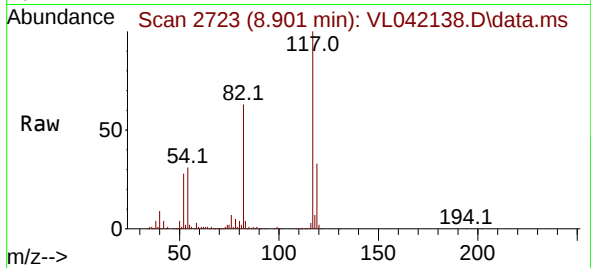




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042138.D
Acq: 10 Mar 2025 22:10

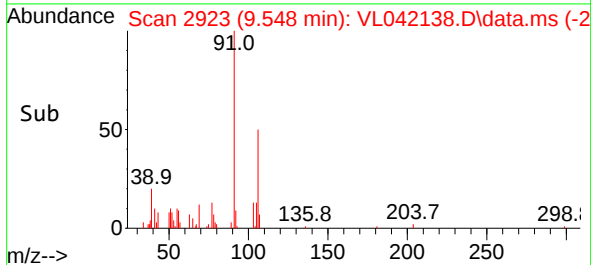
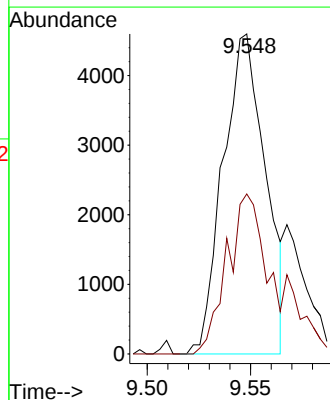
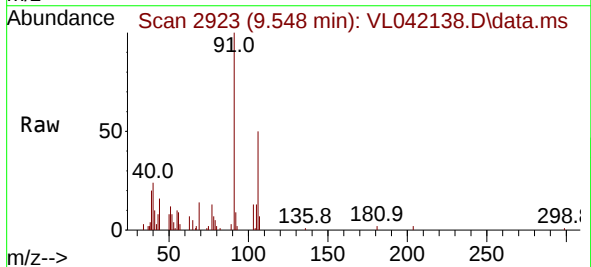
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

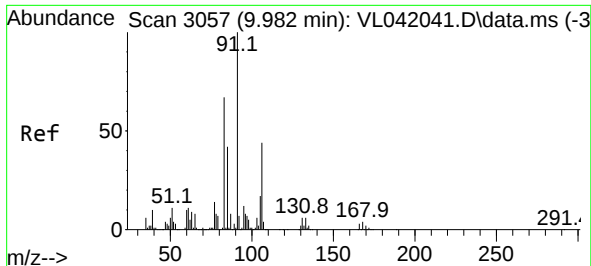
Tgt Ion:117 Resp: 333862
Ion Ratio Lower Upper
117 100
82 63.8 55.0 82.6
119 31.9 25.9 38.9



#59
m/p-Xylene
Concen: 0.134 ppbv
RT: 9.548 min Scan# 2923
Delta R.T. -0.003 min
Lab File: VL042138.D
Acq: 10 Mar 2025 22:10

Tgt Ion: 91 Resp: 6552
Ion Ratio Lower Upper
91 100
106 57.0 0.0 0.0#

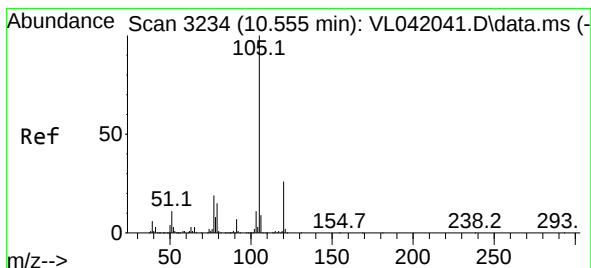
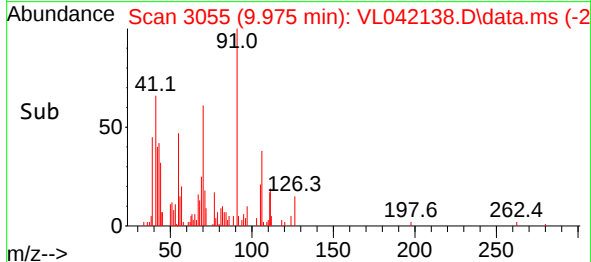
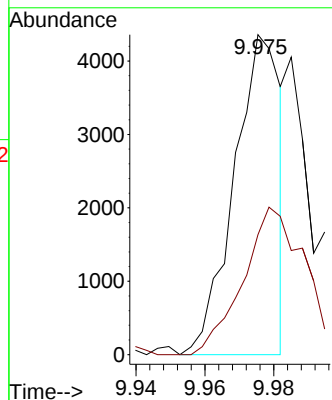
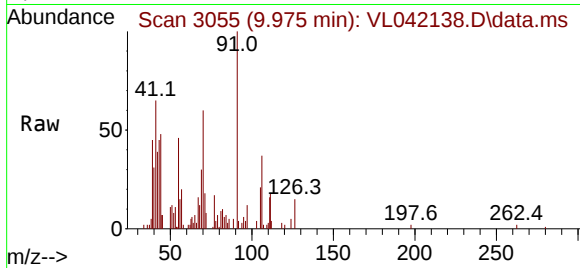




#60
o-Xylene
Concen: 0.083 ppbv
RT: 9.975 min Scan# 3057
Delta R.T. -0.007 min
Lab File: VL042138.D
Acq: 10 Mar 2025 22:10

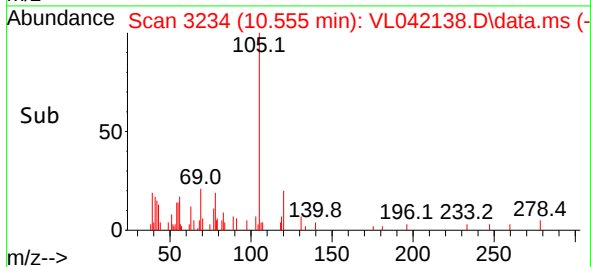
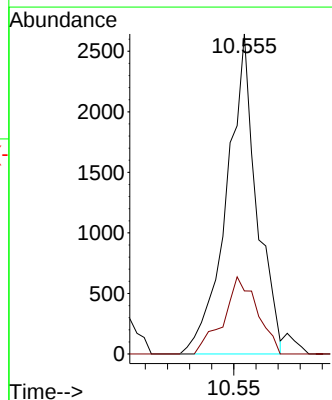
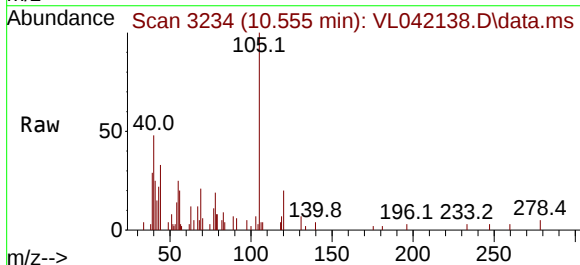
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

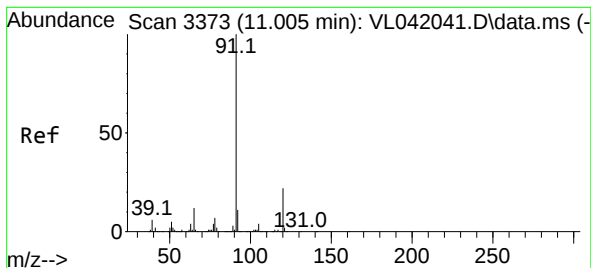
Tgt Ion: 91 Resp: 4066
Ion Ratio Lower Upper
91 100
106 60.0 22.3 66.8



#62
Isopropylbenzene
Concen: 0.034 ppbv
RT: 10.555 min Scan# 3234
Delta R.T. -0.000 min
Lab File: VL042138.D
Acq: 10 Mar 2025 22:10

Tgt Ion: 105 Resp: 2491
Ion Ratio Lower Upper
105 100
120 27.2 20.7 31.1





#64

n-propylbenzene

Concen: 0.182 ppbv

RT: 11.005 min Scan# 31

Delta R.T. -0.000 min

Lab File: VL042138.D

Acq: 10 Mar 2025 22:10

Instrument :

MSVOA_L

ClientSampleId :

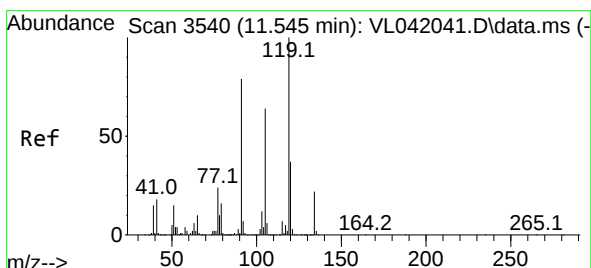
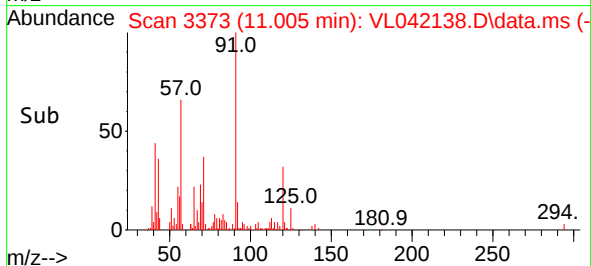
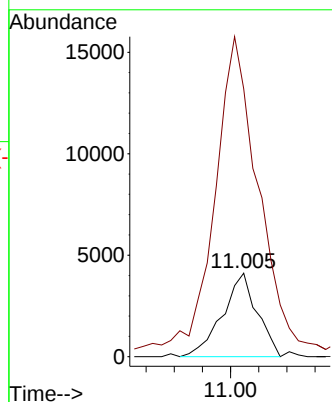
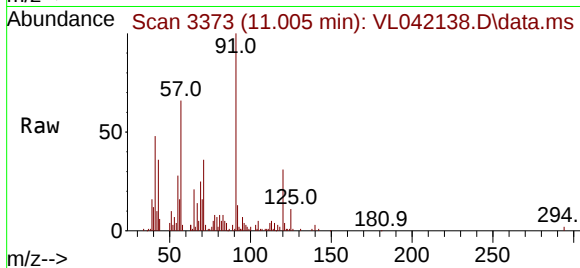
SV2DL

Tgt Ion:120 Resp: 3520

Ion Ratio Lower Upper

120 100

91 496.3 370.6 556.0



#65

tert-Butylbenzene

Concen: 0.135 ppbv

RT: 11.548 min Scan# 3541

Delta R.T. 0.003 min

Lab File: VL042138.D

Acq: 10 Mar 2025 22:10

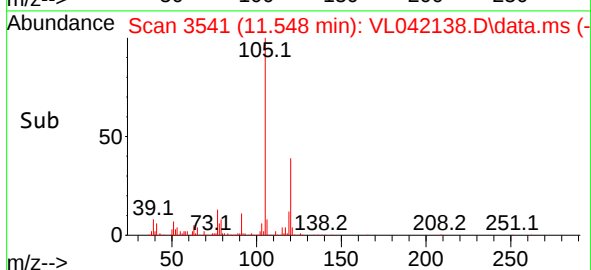
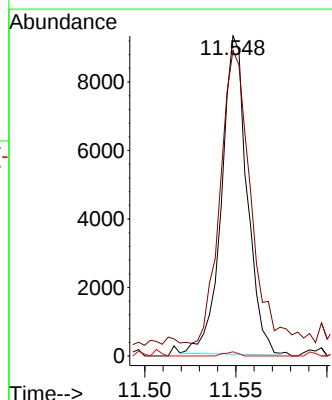
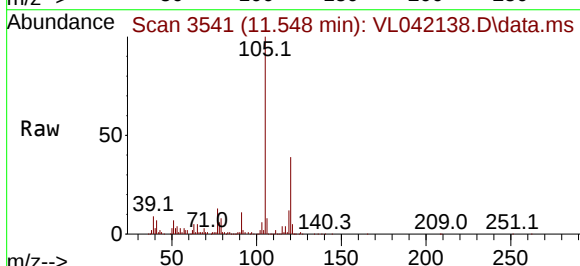
Tgt Ion:119 Resp: 9029

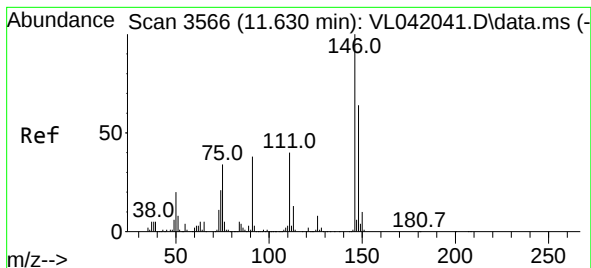
Ion Ratio Lower Upper

119 100

91 127.8 64.2 96.2#

134 0.0 17.4 26.2#

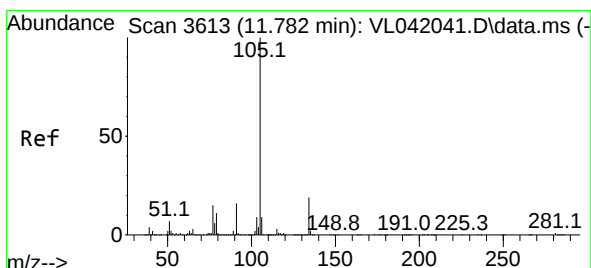
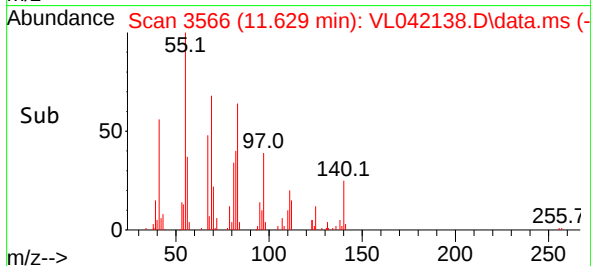
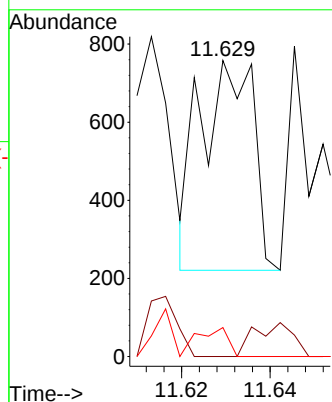
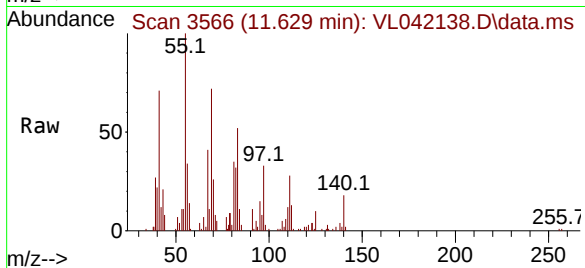




#66
Benzyl Chloride
Concen: 0.087 ppbv
RT: 11.629 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042138.D
Acq: 10 Mar 2025 22:10

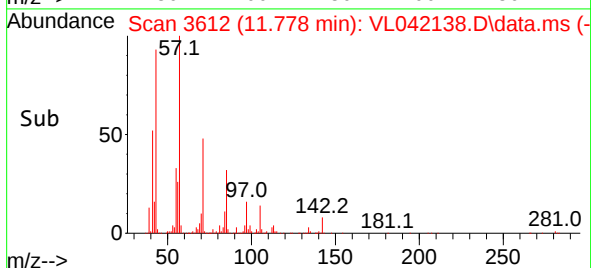
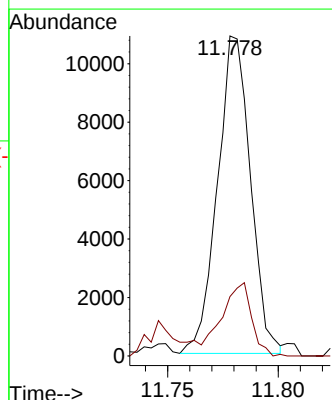
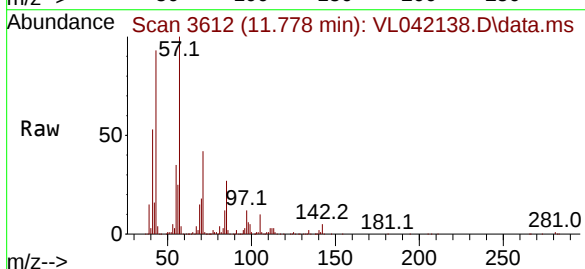
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

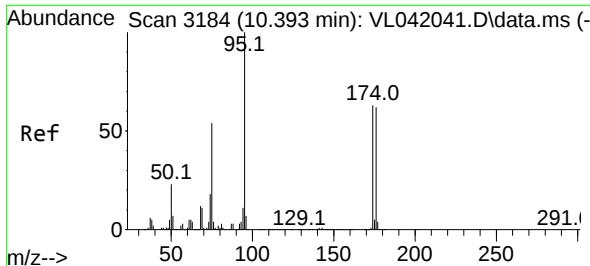
Tgt Ion: 91 Resp: 446
Ion Ratio Lower Upper
91 100
126 0.0 14.5 21.7#
128 0.0 5.4 8.2#



#67
sec-Butylbenzene
Concen: 0.118 ppbv
RT: 11.778 min Scan# 3612
Delta R.T. -0.004 min
Lab File: VL042138.D
Acq: 10 Mar 2025 22:10

Tgt Ion: 105 Resp: 11268
Ion Ratio Lower Upper
105 100
134 31.7 14.9 22.3#

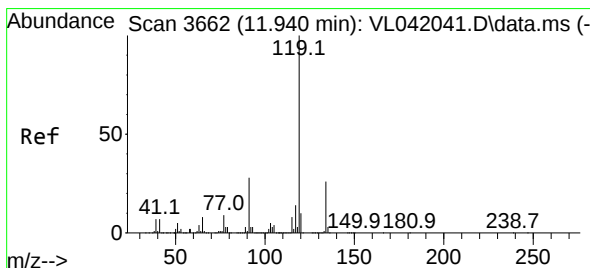
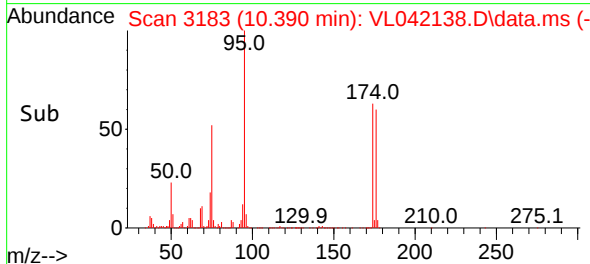
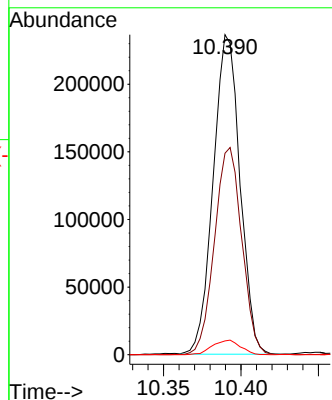
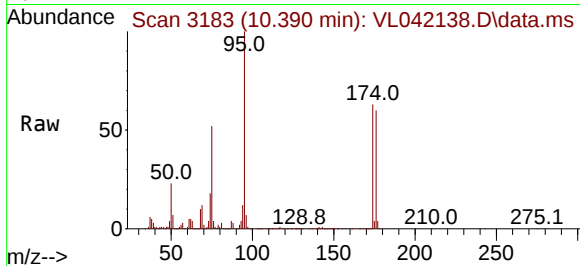




#68
1-Bromo-4-Fluorobenzene
Concen: 11.068 ppbv
RT: 10.390 min Scan# 3184
Delta R.T. -0.003 min
Lab File: VL042138.D
Acq: 10 Mar 2025 22:10

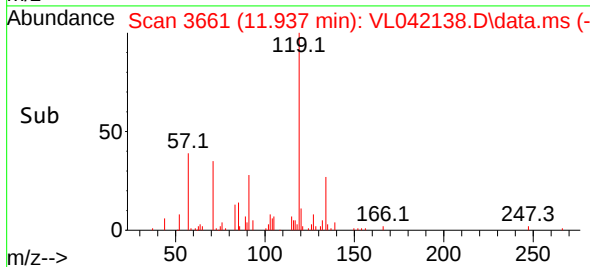
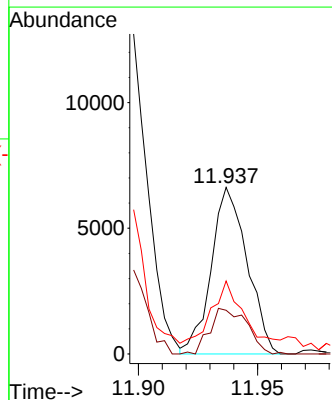
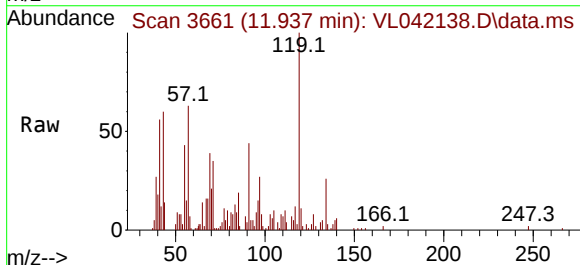
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

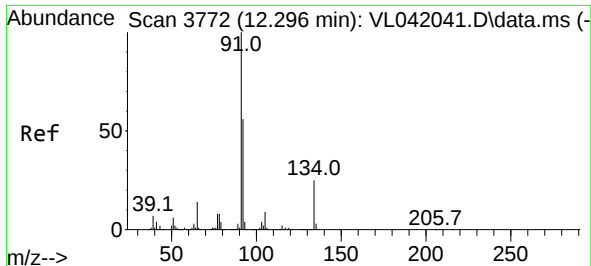
Tgt Ion: 95 Resp: 284295
Ion Ratio Lower Upper
95 100
174 66.0 51.8 77.6
175 4.8 3.9 5.9



#69
p-Isopropyltoluene
Concen: 0.091 ppbv
RT: 11.937 min Scan# 3661
Delta R.T. -0.004 min
Lab File: VL042138.D
Acq: 10 Mar 2025 22:10

Tgt Ion: 119 Resp: 6951
Ion Ratio Lower Upper
119 100
134 28.3 20.9 31.3
91 44.0 23.1 34.7#

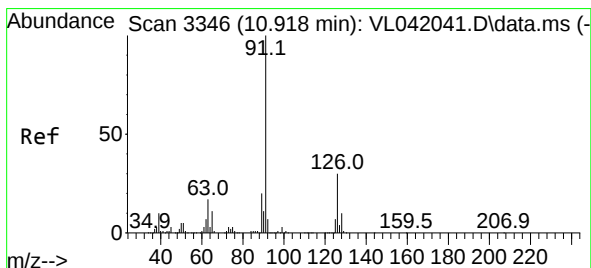
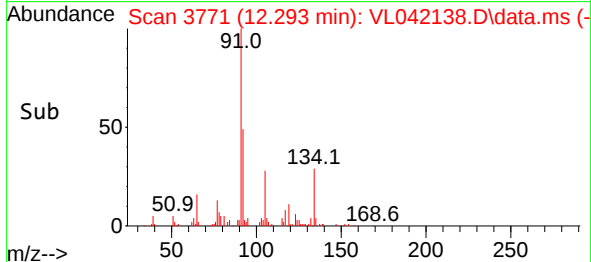
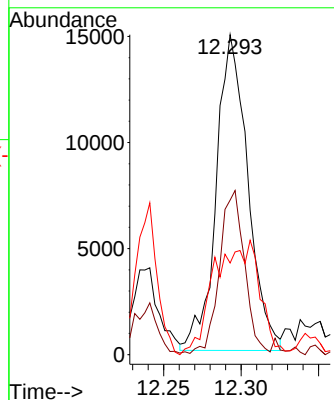
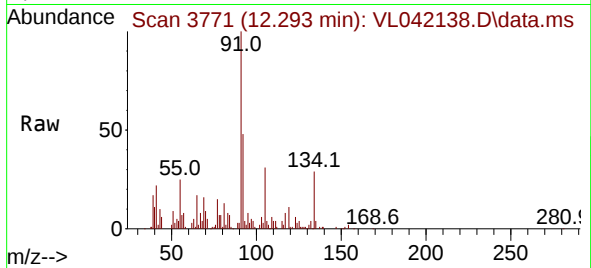




#70
n-Butylbenzene
Concen: 0.272 ppbv
RT: 12.293 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042138.D
Acq: 10 Mar 2025 22:10

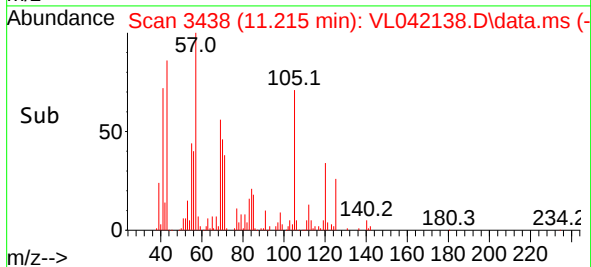
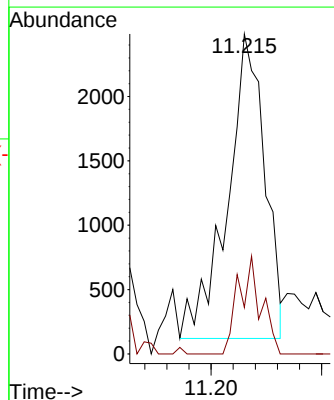
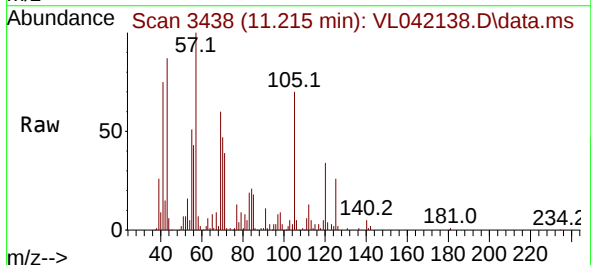
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

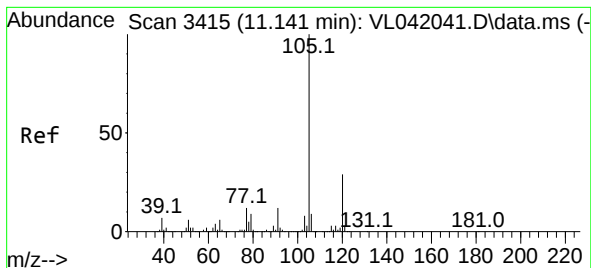
Tgt Ion: 91 Resp: 21156
Ion Ratio Lower Upper
91 100
92 43.2 44.7 67.1#
134 51.5 18.9 28.3#



#71
2-Chlorotoluene
Concen: 0.049 ppbv
RT: 11.215 min Scan# 3438
Delta R.T. 0.298 min
Lab File: VL042138.D
Acq: 10 Mar 2025 22:10

Tgt Ion: 91 Resp: 2776
Ion Ratio Lower Upper
91 100
126 19.6 11.9 47.5

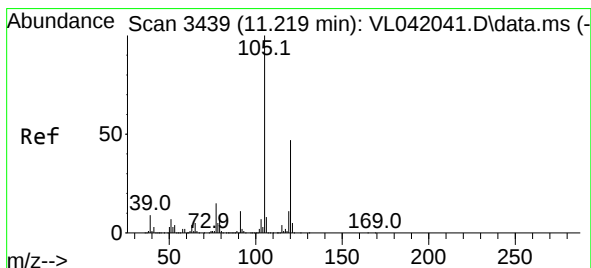
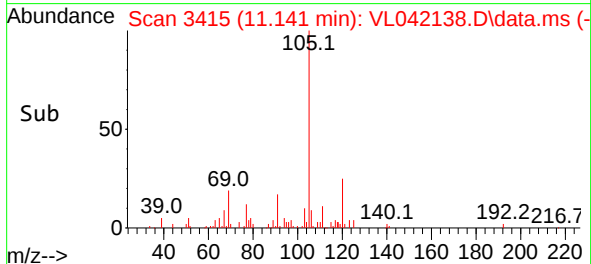
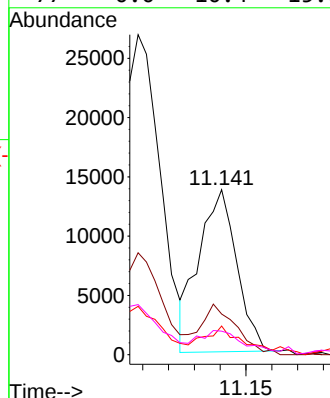
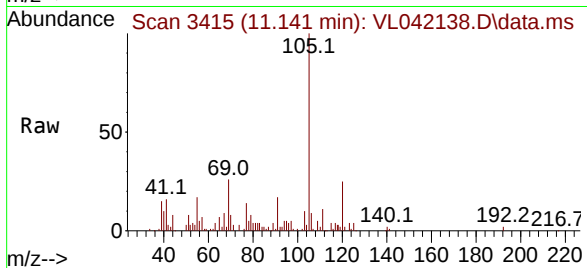




#72
4-Ethyltoluene
Concen: 0.233 ppbv
RT: 11.141 min Scan# 3415
Delta R.T. -0.000 min
Lab File: VL042138.D
Acq: 10 Mar 2025 22:10

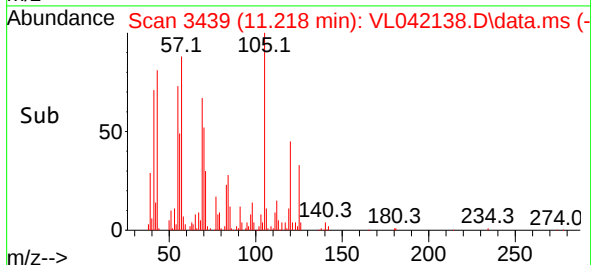
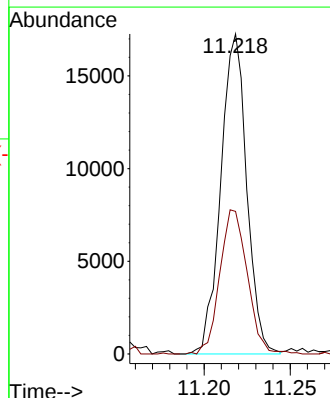
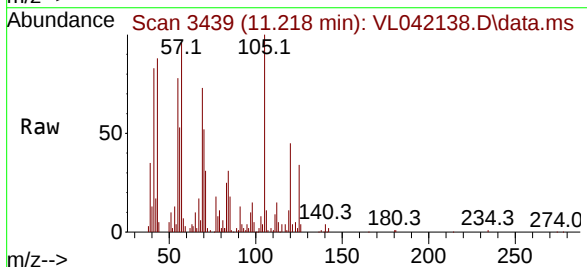
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

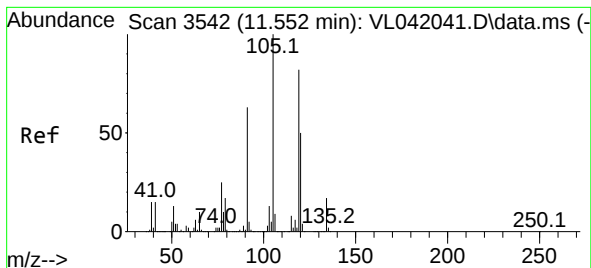
Tgt Ion:105 Resp: 13985
Ion Ratio Lower Upper
105 100
120 0.0 24.1 36.1#
91 0.0 10.2 15.4#
77 0.0 10.4 15.6#



#73
1,3,5-Trimethylbenzene
Concen: 0.347 ppbv
RT: 11.218 min Scan# 3439
Delta R.T. -0.000 min
Lab File: VL042138.D
Acq: 10 Mar 2025 22:10

Tgt Ion:105 Resp: 18094
Ion Ratio Lower Upper
105 100
120 44.5 37.4 56.0





#74

1,2,4-Trimethylbenzene

Concen: 1.346 ppbv

RT: 11.548 min Scan# 3541

Delta R.T. -0.003 min

Lab File: VL042138.D

Acq: 10 Mar 2025 22:10

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

Tgt Ion:105 Resp: 78977

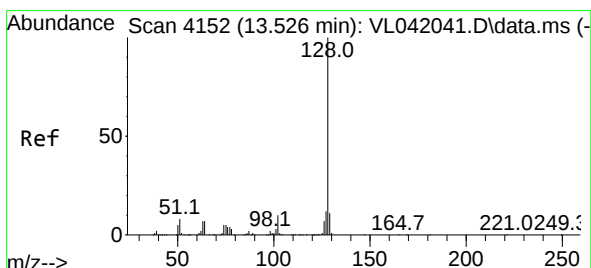
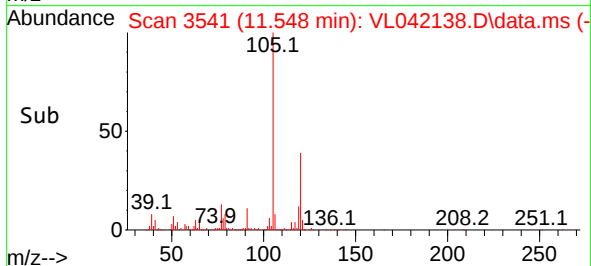
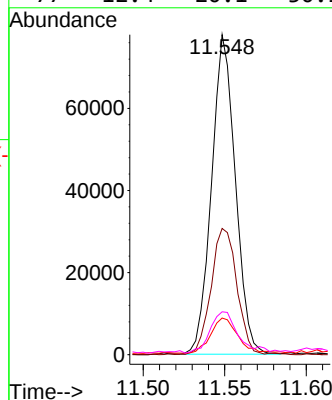
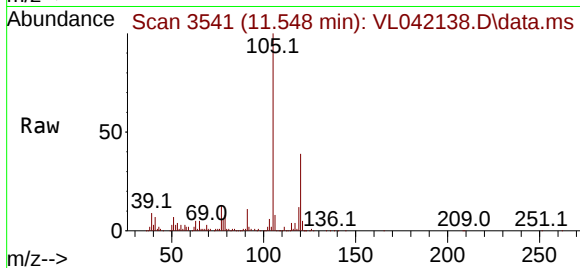
Ion Ratio Lower Upper

105 100

120 39.4 40.2 60.2#

91 11.0 51.4 77.2#

77 12.4 20.1 30.1#



#79

Naphthalene

Concen: 0.096 ppbv

RT: 13.526 min Scan# 4152

Delta R.T. -0.000 min

Lab File: VL042138.D

Acq: 10 Mar 2025 22:10

Tgt Ion:128 Resp: 3867

Ion Ratio Lower Upper

128 100

127 30.4 9.8 14.6#

129 7.4 8.6 12.8#

