

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042357.D
 Acq On : 17 Apr 2025 14:23
 Operator : SY/MD
 Sample : VL0417ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABL01

Quant Time: Apr 18 02:36:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

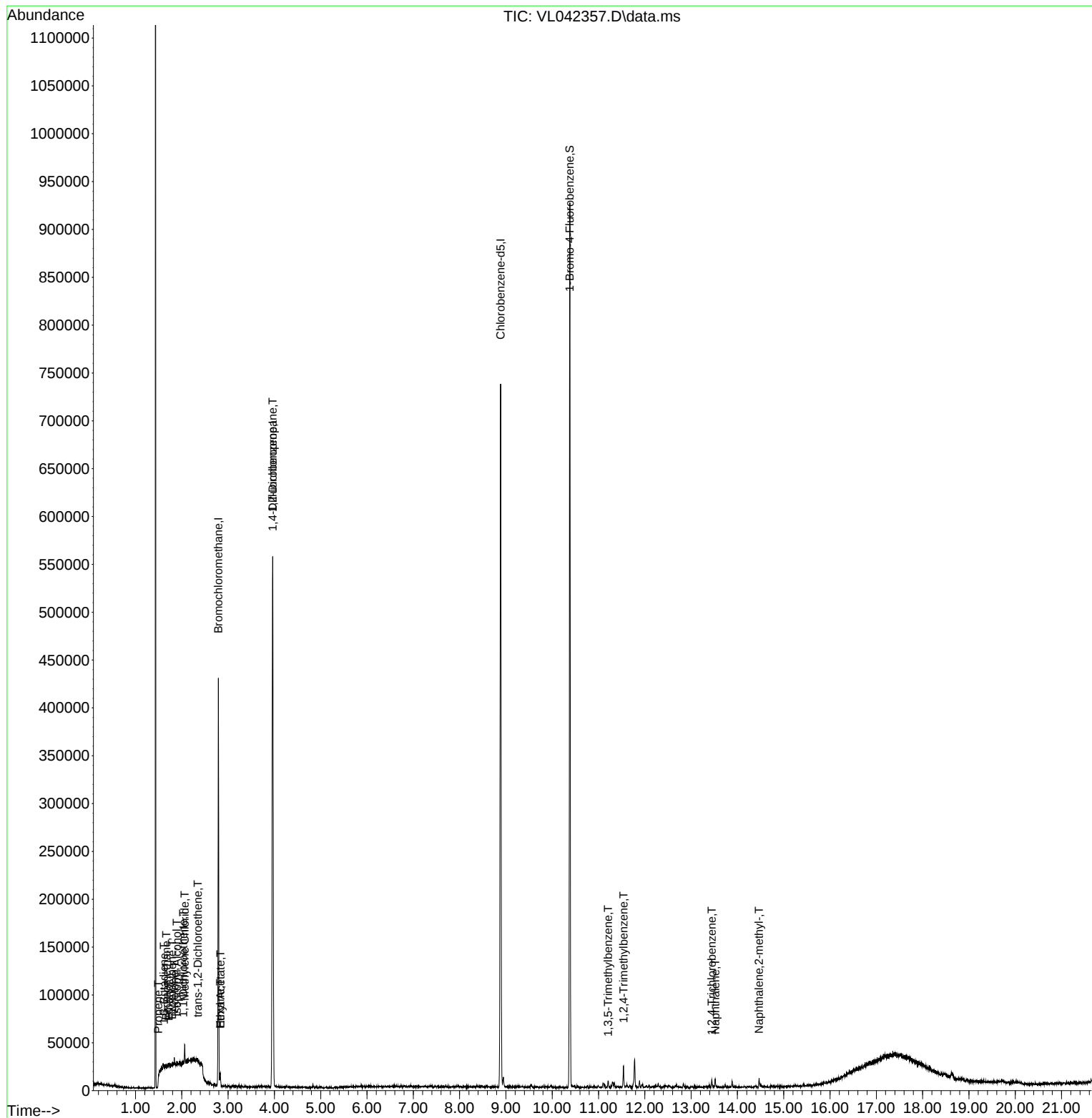
Internal Standards						
1) Bromochloromethane	2.790	49	113566	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	328716	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	297633	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	247968	10.139	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.400%
Target Compounds						
					Qvalue	
6) Bromomethane	1.664	94	169	0.046	ppbv #	17
9) Propene	1.492	41	608	0.070	ppbv #	15
13) Ethanol	1.719	45	555	0.401	ppbv	72
14) Bromoethene	1.793	108	248	0.042	ppbv #	1
15) Acetone	1.838	43	3399	0.183	ppbv #	76
16) 1,3-Butadiene	1.615	39	450	0.051	ppbv #	9
18) 1,1-Dichloroethene	2.029	96	295	0.040	ppbv #	1
19) Isopropyl Alcohol	1.890	45	347	0.034	ppbv #	1
20) Methylene Chloride	2.065	84	3505	0.481	ppbv #	76
22) trans-1,2-Dichloroethene	2.347	96	329	0.040	ppbv #	1
25) Ethyl Acetate	2.832	43	2523	0.055	ppbv #	88
26) Hexane	2.829	57	3497	0.189	ppbv #	48
39) 1,2-Dichloropropane	3.962	63	88299	6.683	ppbv #	22
73) 1,3,5-Trimethylbenzene	11.205	105	2156	0.042	ppbv #	84
74) 1,2,4-Trimethylbenzene	11.542	105	6898	0.114	ppbv #	70
79) Naphthalene	13.520	128	3933	0.055	ppbv #	93
80) Naphthalene,2-methyl-	14.468	142	3249	0.079	ppbv	90
81) 1,2,4-Trichlorobenzene	13.445	180	1217	0.039	ppbv	89

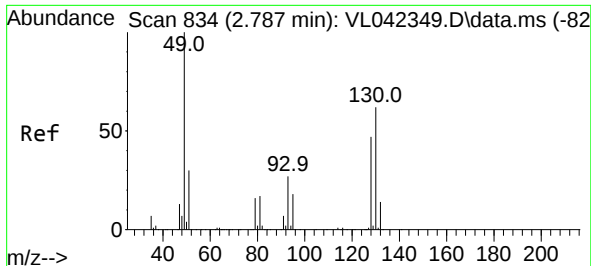
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 2.790 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042357.D

Acq: 17 Apr 2025 14:23

Instrument :

MSVOA_L

ClientSampleId :

VL0417ABL01

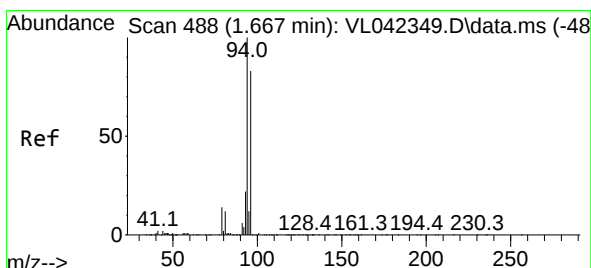
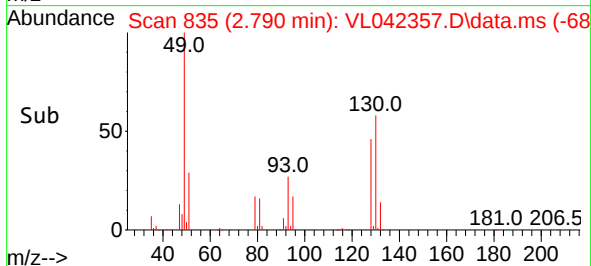
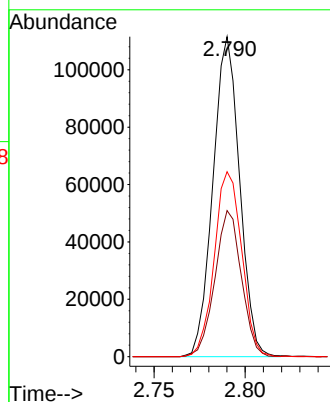
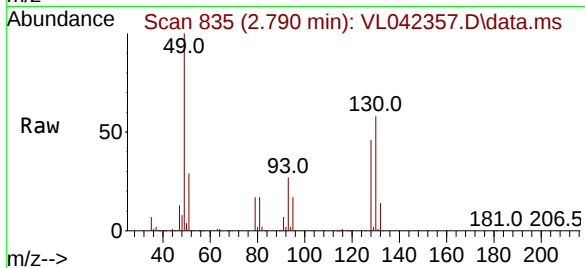
Tgt Ion: 49 Resp: 113566

Ion Ratio Lower Upper

49 100

128 45.4 22.8 68.4

130 59.4 29.3 88.0



#6

Bromomethane

Concen: 0.046 ppbv

RT: 1.664 min Scan# 487

Delta R.T. -0.003 min

Lab File: VL042357.D

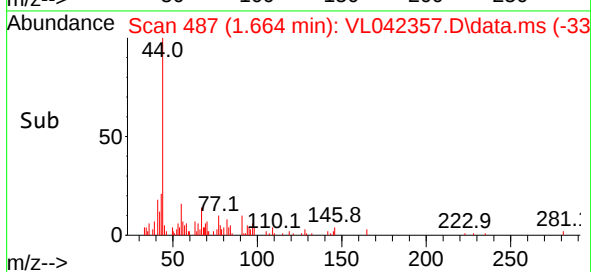
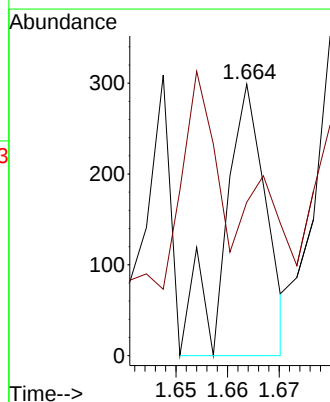
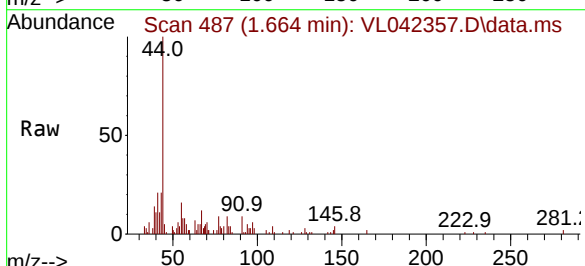
Acq: 17 Apr 2025 14:23

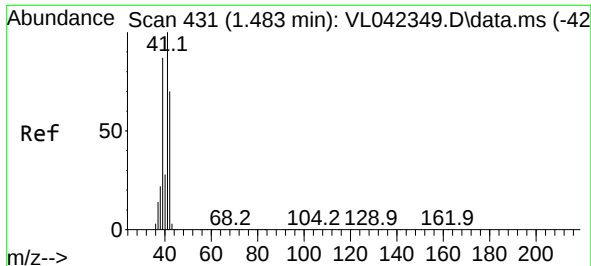
Tgt Ion: 94 Resp: 169

Ion Ratio Lower Upper

94 100

96 7.7 66.2 99.2#





#9

Propene

Concen: 0.070 ppbv

RT: 1.492 min Scan# 41

Delta R.T. 0.010 min

Lab File: VL042357.D

Acq: 17 Apr 2025 14:23

Instrument :

MSVOA_L

ClientSampleId :

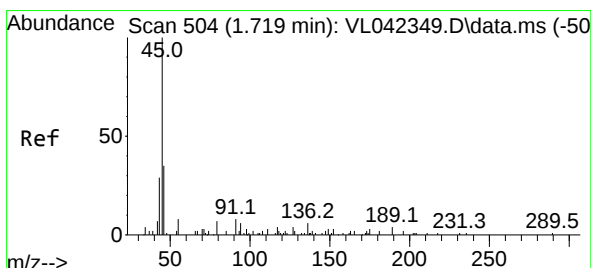
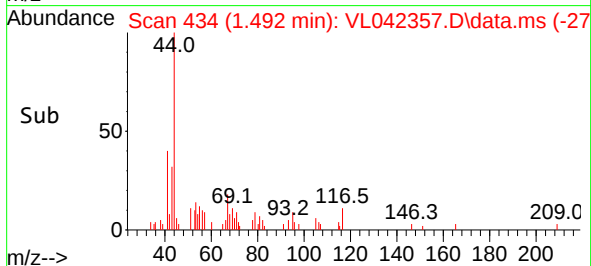
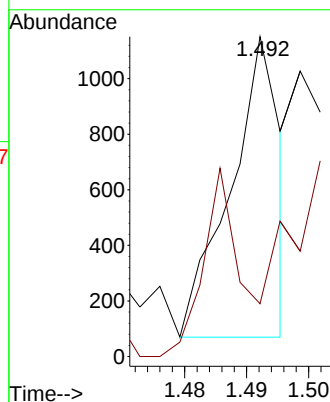
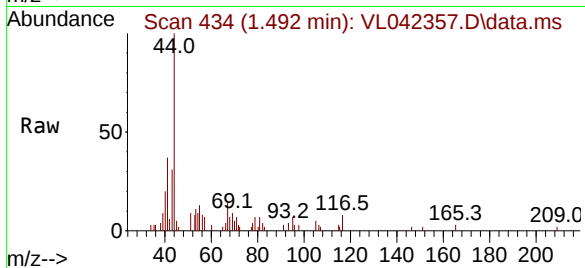
VL0417ABL01

Tgt Ion: 41 Resp: 608

Ion Ratio Lower Upper

41 100

42 0.0 56.2 84.4#



#13

Ethanol

Concen: 0.401 ppbv

RT: 1.719 min Scan# 504

Delta R.T. -0.000 min

Lab File: VL042357.D

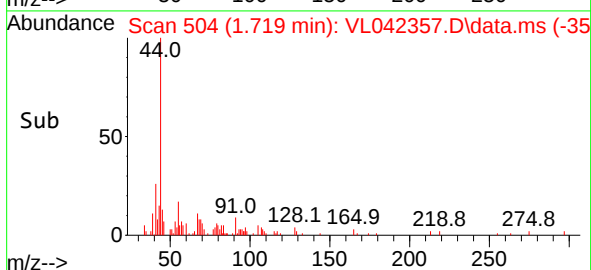
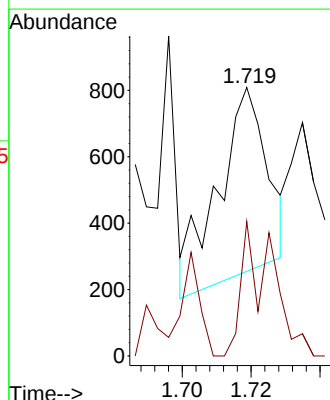
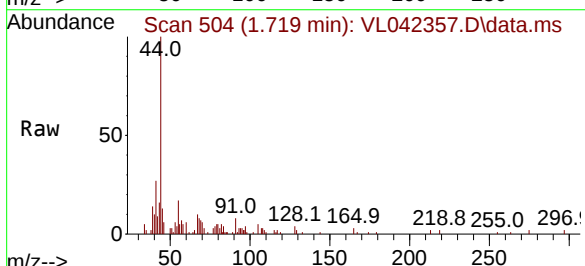
Acq: 17 Apr 2025 14:23

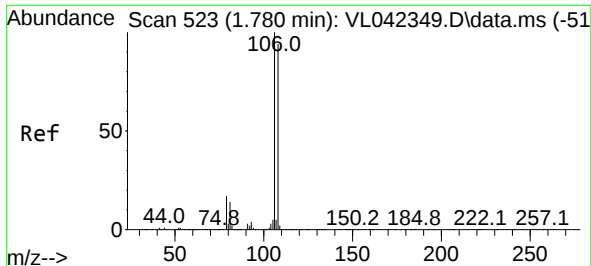
Tgt Ion: 45 Resp: 555

Ion Ratio Lower Upper

45 100

46 74.8 21.9 87.7

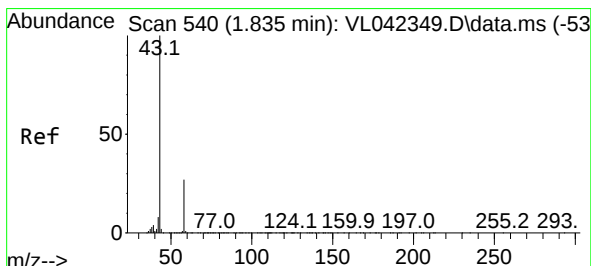
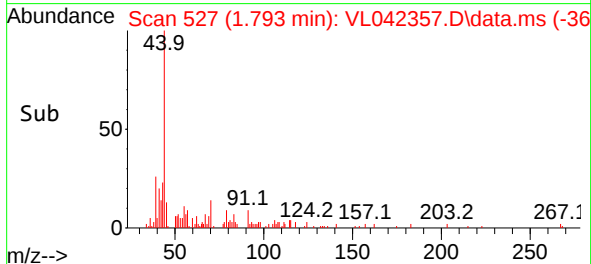
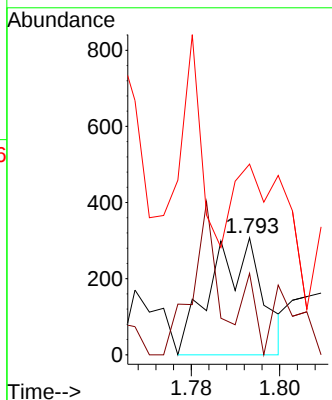
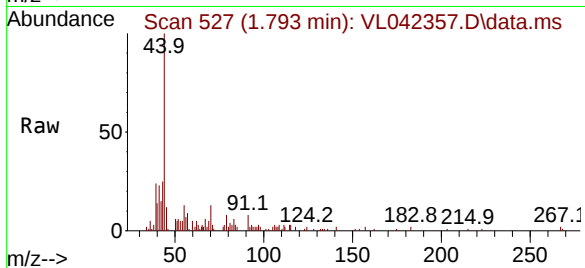




#14
Bromoethene
Concen: 0.042 ppbv
RT: 1.793 min Scan# 51
Delta R.T. 0.013 min
Lab File: VL042357.D
Acq: 17 Apr 2025 14:23

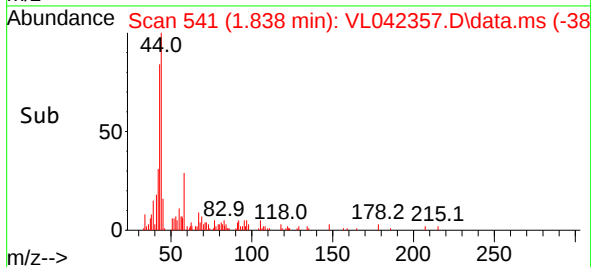
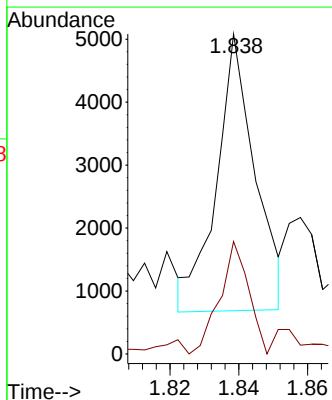
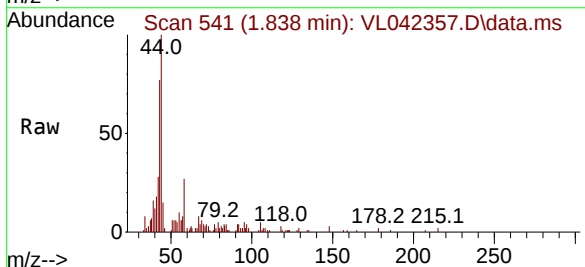
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABL01

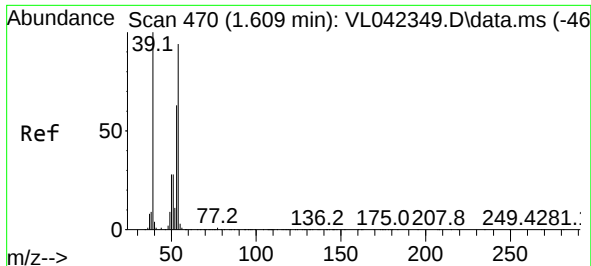
Tgt Ion:108 Resp: 248
Ion Ratio Lower Upper
108 100
106 101.2 85.9 128.9
79 425.4 13.9 20.9#



#15
Acetone
Concen: 0.183 ppbv
RT: 1.838 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042357.D
Acq: 17 Apr 2025 14:23

Tgt Ion: 43 Resp: 3399
Ion Ratio Lower Upper
43 100
58 40.8 22.4 33.6#

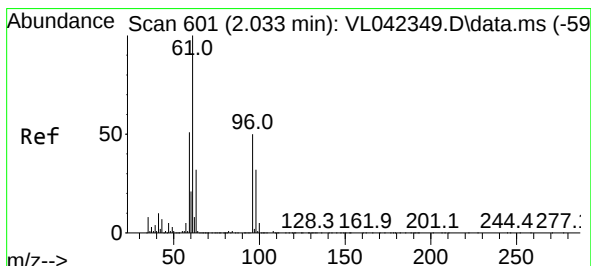
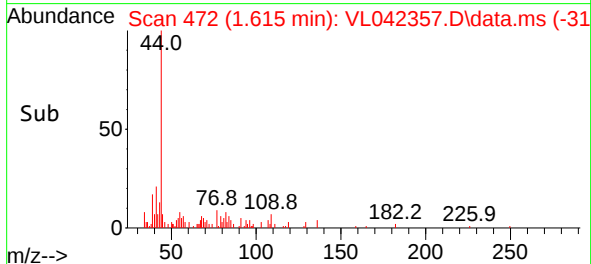
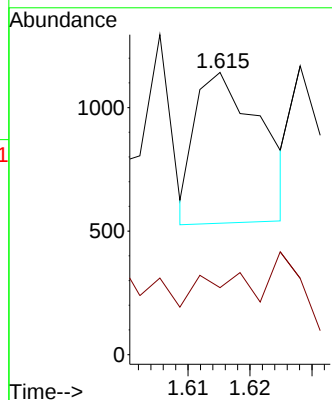
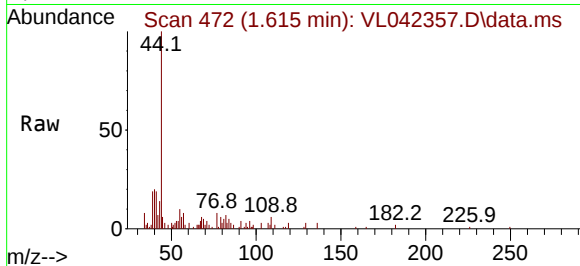




#16
1,3-Butadiene
Concen: 0.051 ppbv
RT: 1.615 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042357.D
Acq: 17 Apr 2025 14:23

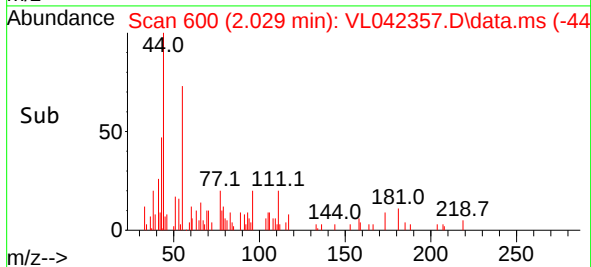
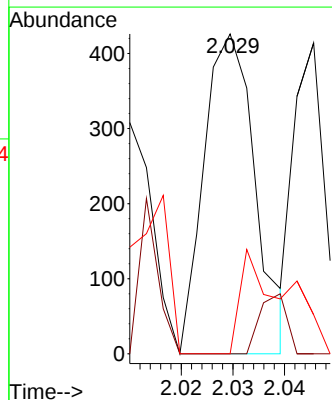
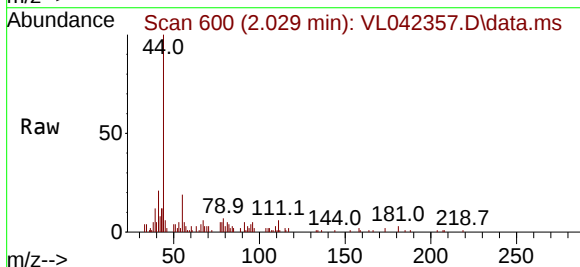
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABL01

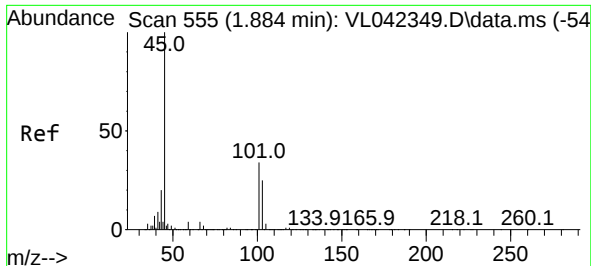
Tgt Ion: 39 Resp: 450
Ion Ratio Lower Upper
39 100
54 0.0 64.9 97.3#



#18
1,1-Dichloroethene
Concen: 0.040 ppbv
RT: 2.029 min Scan# 600
Delta R.T. -0.003 min
Lab File: VL042357.D
Acq: 17 Apr 2025 14:23

Tgt Ion: 96 Resp: 295
Ion Ratio Lower Upper
96 100
61 0.0 160.2 240.2#
98 0.0 51.0 76.4#

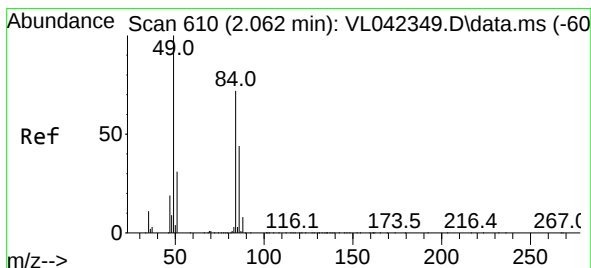
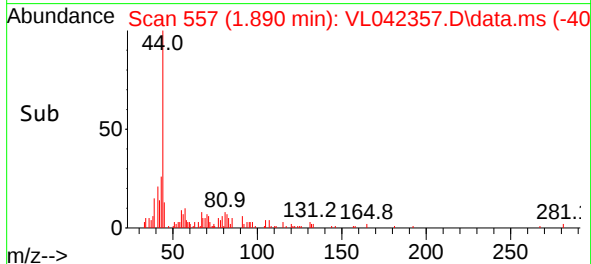
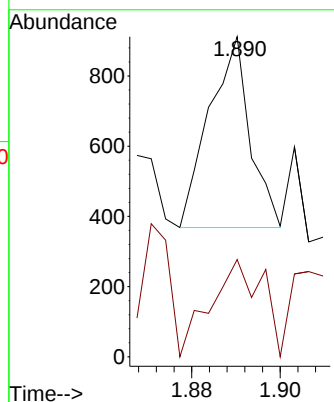
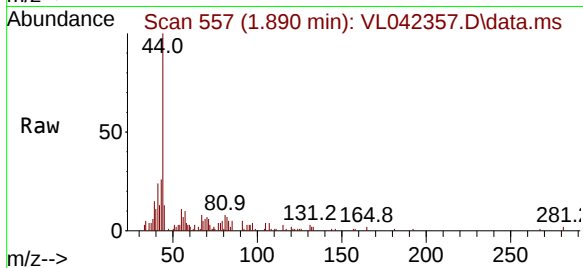




#19
Isopropyl Alcohol
Concen: 0.034 ppbv
RT: 1.890 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL042357.D
Acq: 17 Apr 2025 14:23

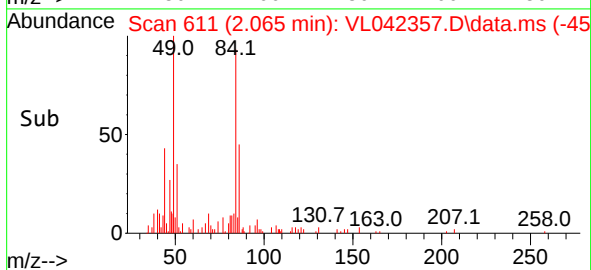
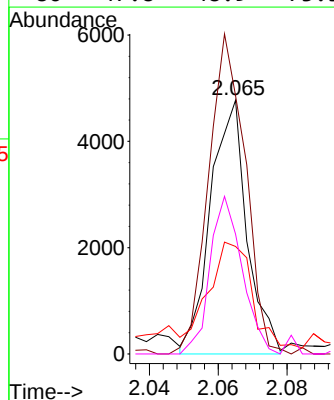
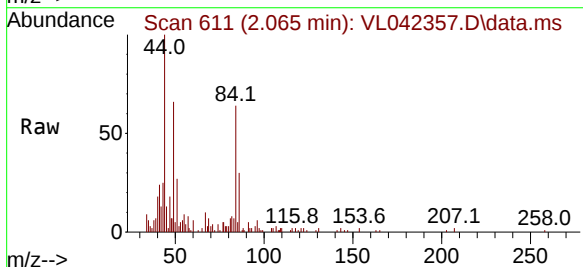
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABL01

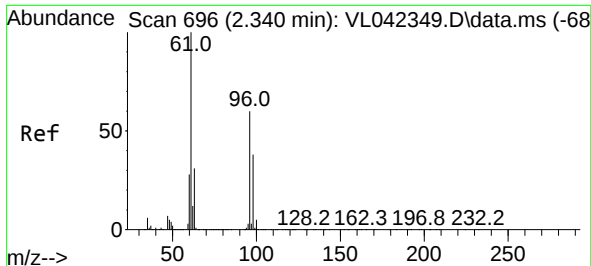
Tgt Ion: 45 Resp: 347
Ion Ratio Lower Upper
45 100
58 119.0 34.5 51.7#



#20
Methylene Chloride
Concen: 0.481 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.003 min
Lab File: VL042357.D
Acq: 17 Apr 2025 14:23

Tgt Ion: 84 Resp: 3505
Ion Ratio Lower Upper
84 100
49 101.0 111.6 167.4#
51 39.4 35.1 52.7
86 47.8 48.9 73.3#

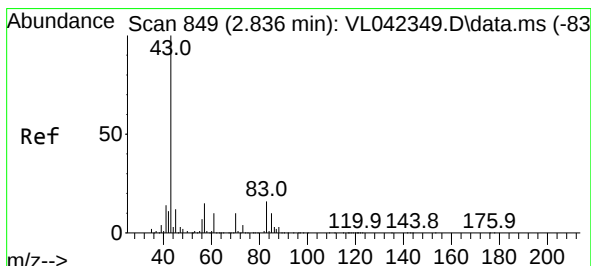
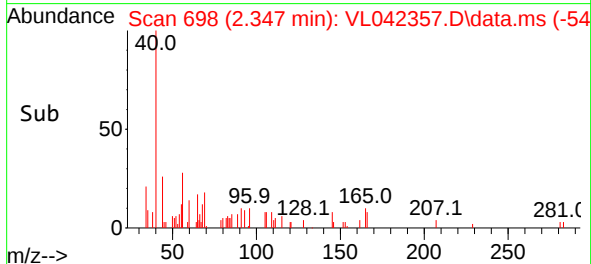
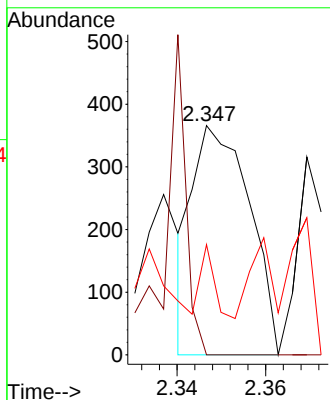
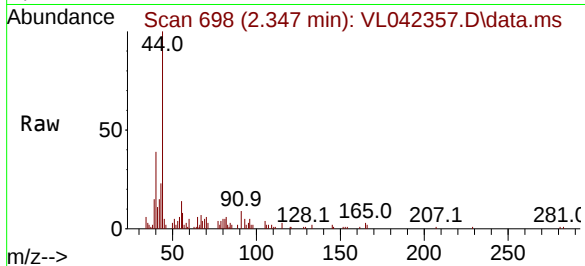




#22
trans-1,2-Dichloroethene
Concen: 0.040 ppbv
RT: 2.347 min Scan# 696
Delta R.T. 0.006 min
Lab File: VL042357.D
Acq: 17 Apr 2025 14:23

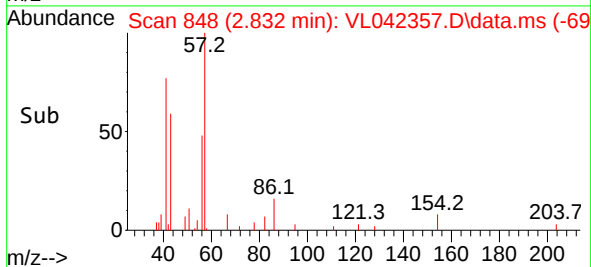
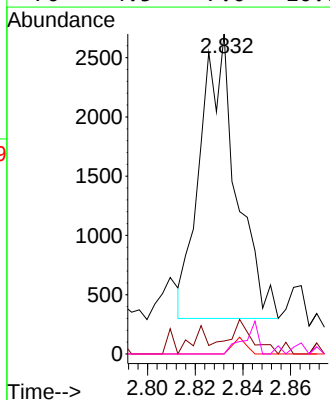
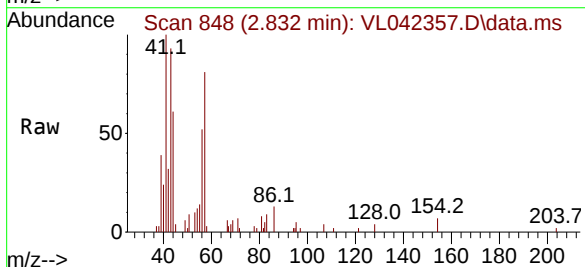
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MSVOA_1
ClientSampleId :
VL0417ABL01

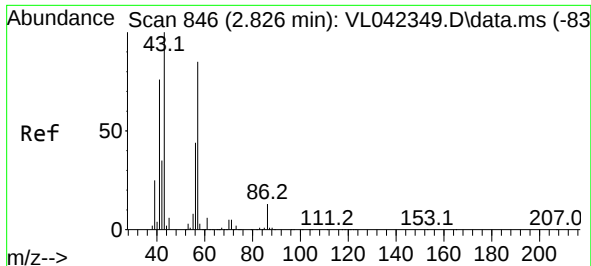
Tgt Ion: 96 Resp: 329
Ion Ratio Lower Upper
96 100
61 0.0 133.7 200.5#
98 29.8 50.3 75.5#



#25
Ethyl Acetate
Concen: 0.055 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.003 min
Lab File: VL042357.D
Acq: 17 Apr 2025 14:23

Tgt Ion: 43 Resp: 2523
Ion Ratio Lower Upper
43 100
45 12.6 8.3 12.5#
61 2.1 7.3 10.9#
70 4.5 7.0 10.6#

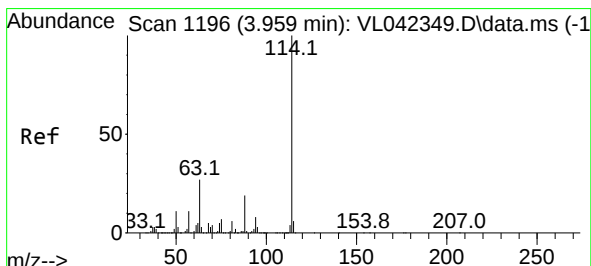
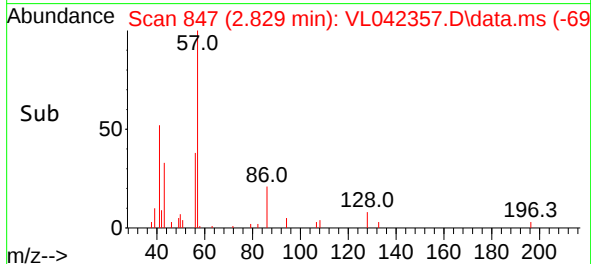
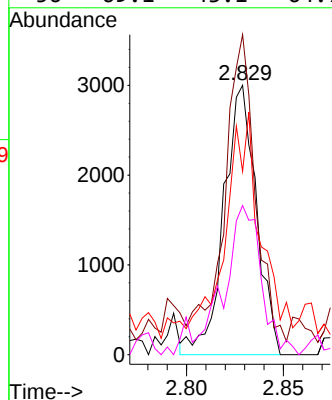
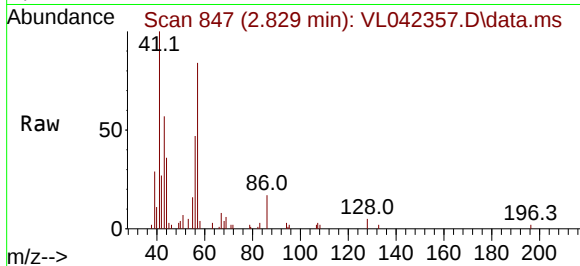




#26
Hexane
Concen: 0.189 ppbv
RT: 2.829 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL042357.D
Acq: 17 Apr 2025 14:23

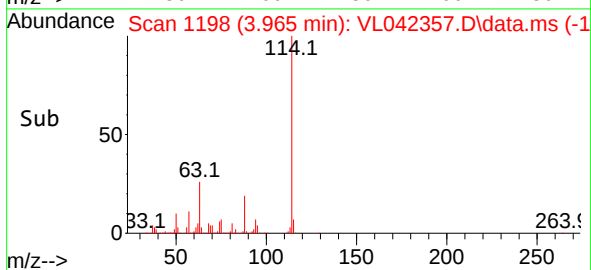
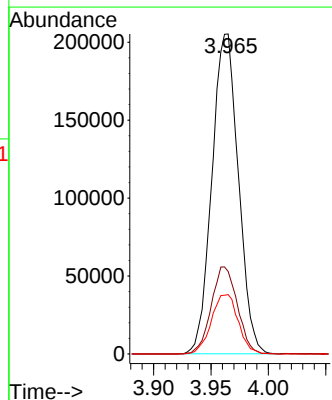
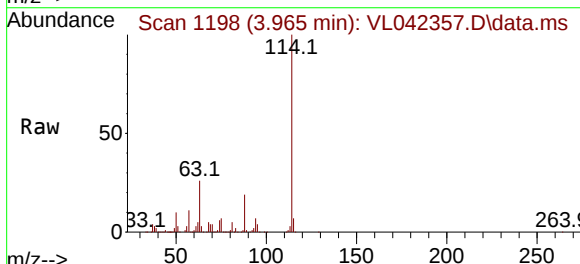
Instrument :
MSVOA_L
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VL0417ABL01

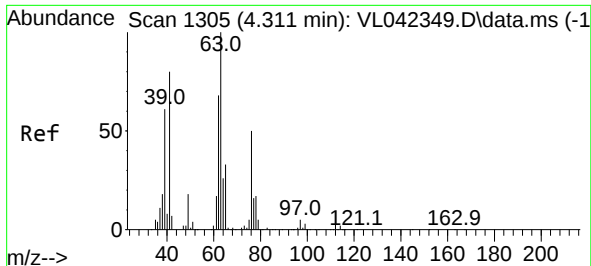
Tgt Ion: 57 Resp: 3497
Ion Ratio Lower Upper
57 100
41 118.6 77.9 116.9#
43 134.3 208.4 312.6#
56 69.1 43.1 64.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.006 min
Lab File: VL042357.D
Acq: 17 Apr 2025 14:23

Tgt Ion: 114 Resp: 328716
Ion Ratio Lower Upper
114 100
63 27.0 21.8 32.6
88 18.9 15.5 23.3





#39

1,2-Dichloropropane

Concen: 6.683 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.350 min

Lab File: VL042357.D

Acq: 17 Apr 2025 14:23

Instrument :

MSVOA_L

ClientSampleId :

VL0417ABL01

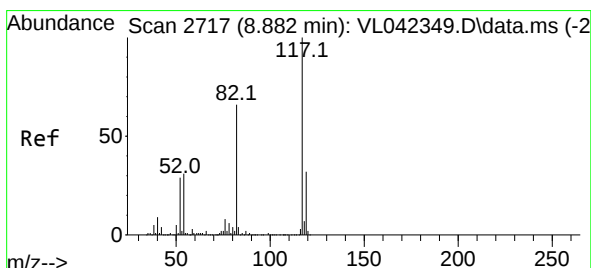
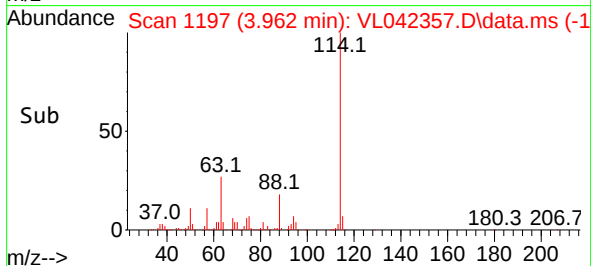
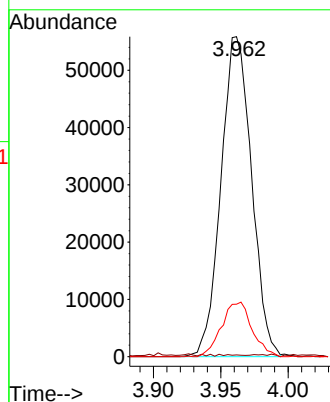
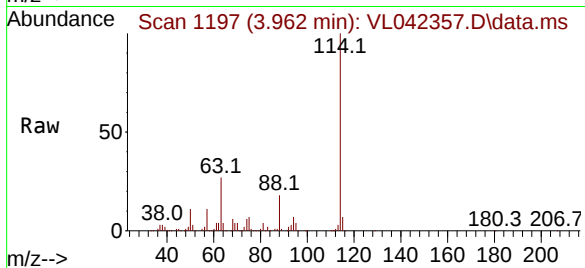
Tgt Ion: 63 Resp: 88299

Ion Ratio Lower Upper

63 100

41 0.8 64.2 96.2#

62 16.4 54.3 81.5#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2718

Delta R.T. 0.003 min

Lab File: VL042357.D

Acq: 17 Apr 2025 14:23

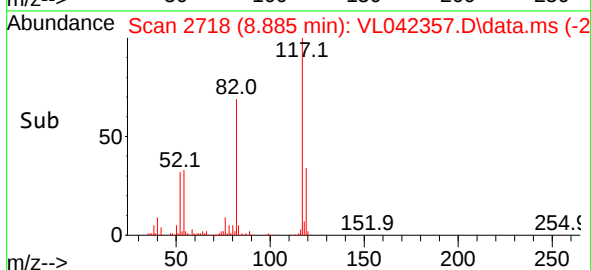
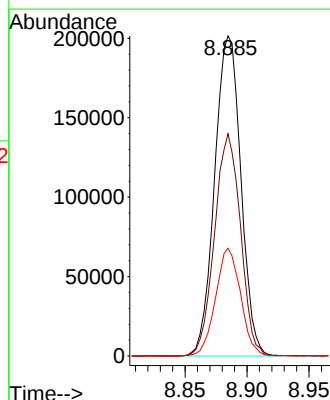
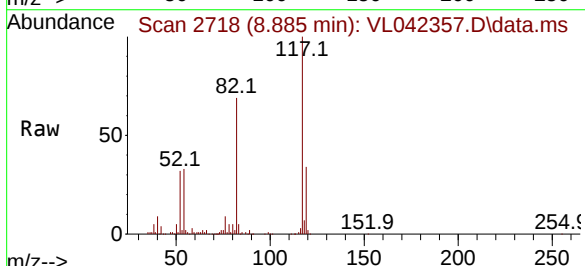
Tgt Ion: 117 Resp: 297633

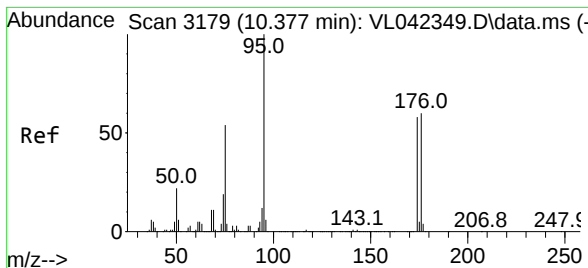
Ion Ratio Lower Upper

117 100

82 68.6 57.8 86.6

119 32.2 25.2 37.8

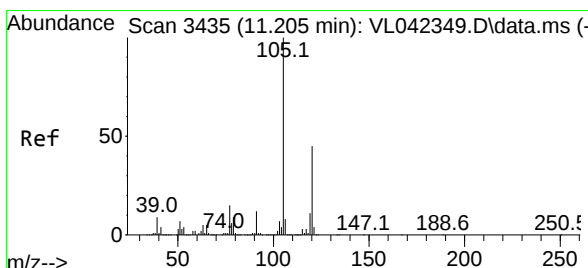
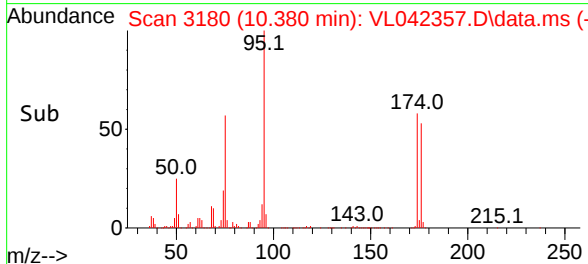
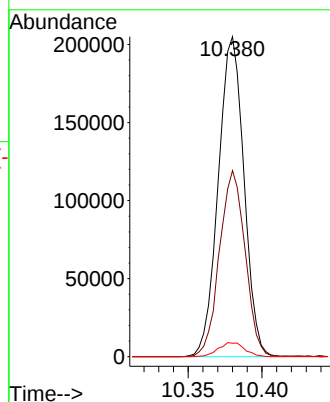
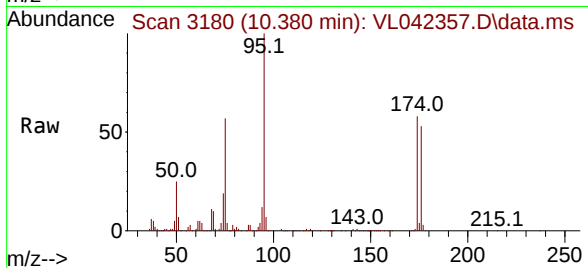




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.139 ppbv
 RT: 10.380 min Scan# 3179
 Delta R.T. 0.003 min
 Lab File: VL042357.D
 Acq: 17 Apr 2025 14:23

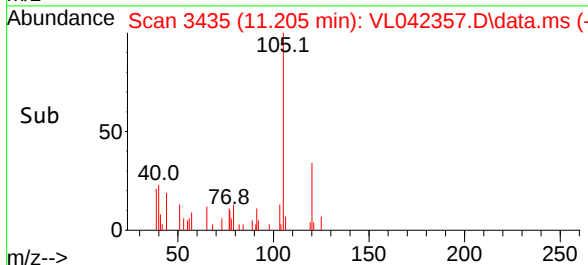
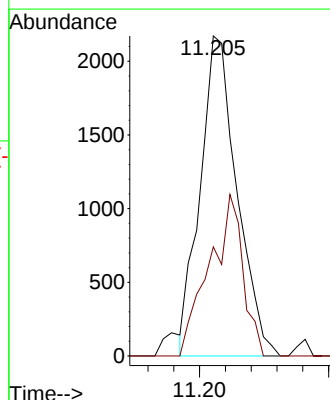
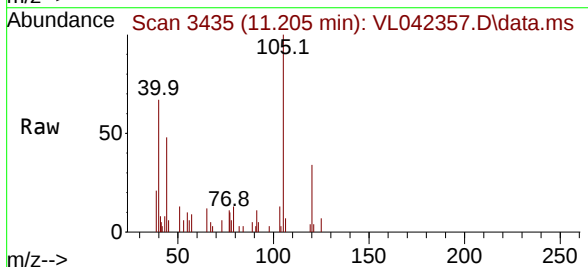
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0417ABL01

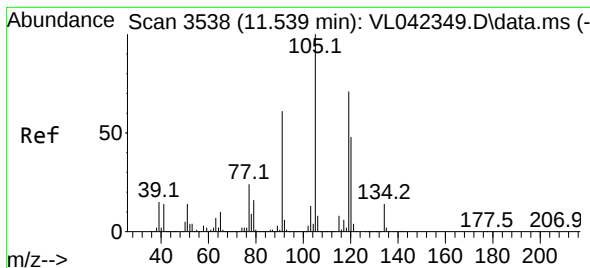
Tgt Ion: 95 Resp: 247968
 Ion Ratio Lower Upper
 95 100
 174 58.2 48.5 72.7
 175 4.5 3.7 5.5



#73
 1,3,5-Trimethylbenzene
 Concen: 0.042 ppbv
 RT: 11.205 min Scan# 3435
 Delta R.T. -0.000 min
 Lab File: VL042357.D
 Acq: 17 Apr 2025 14:23

Tgt Ion: 105 Resp: 2156
 Ion Ratio Lower Upper
 105 100
 120 34.1 35.6 53.4#





#74

1,2,4-Trimethylbenzene

Concen: 0.114 ppbv

RT: 11.542 min Scan# 3

Delta R.T. 0.003 min

Lab File: VL042357.D

Acq: 17 Apr 2025 14:23

Instrument :

MSVOA_L

ClientSampleId :

VL0417ABL01

Tgt Ion:105 Resp: 6898

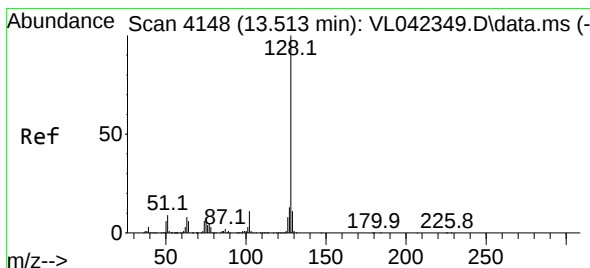
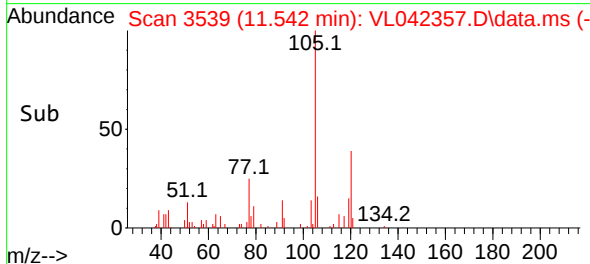
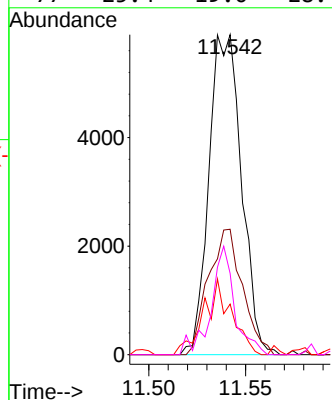
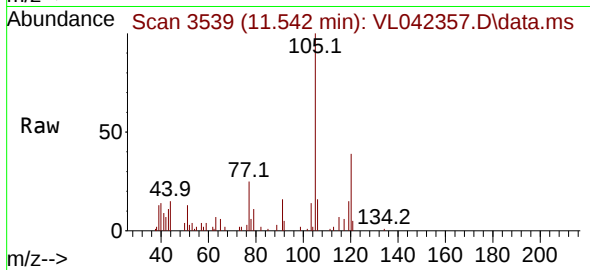
Ion Ratio Lower Upper

105 100

120 44.7 38.1 57.1

91 14.8 48.8 73.2#

77 25.4 19.0 28.4



#79

Naphthalene

Concen: 0.055 ppbv

RT: 13.520 min Scan# 4150

Delta R.T. 0.006 min

Lab File: VL042357.D

Acq: 17 Apr 2025 14:23

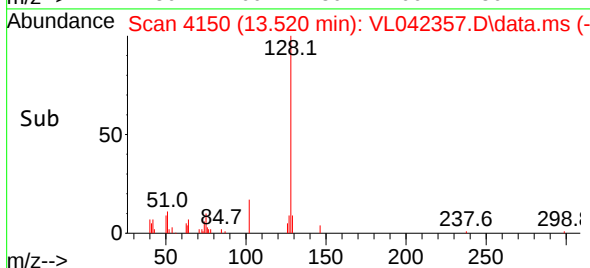
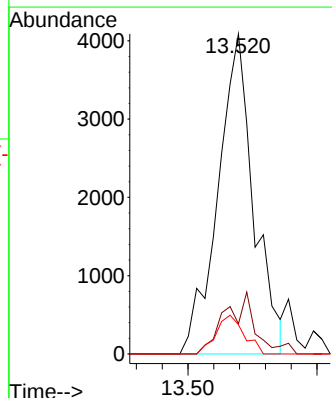
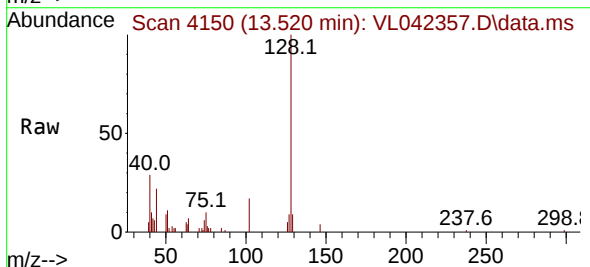
Tgt Ion:128 Resp: 3933

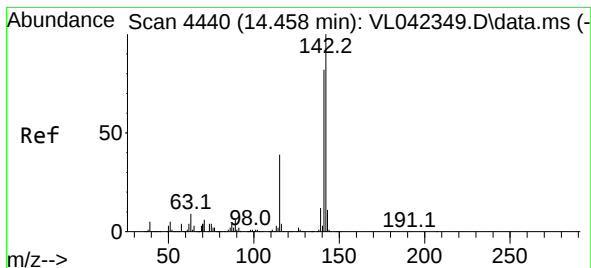
Ion Ratio Lower Upper

128 100

127 9.4 10.6 15.8#

129 9.1 8.6 12.8





#80

Naphthalene, 2-methyl-

Concen: 0.079 ppbv

RT: 14.468 min Scan# 4440

Delta R.T. 0.010 min

Lab File: VL042357.D

Acq: 17 Apr 2025 14:23

Instrument :

MSVOA_1

ClientSampleId :

VL0417ABL01

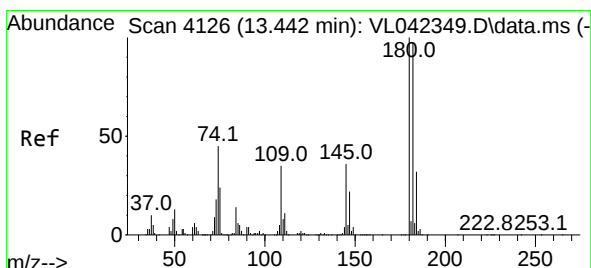
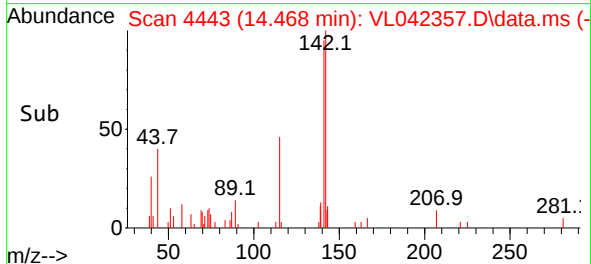
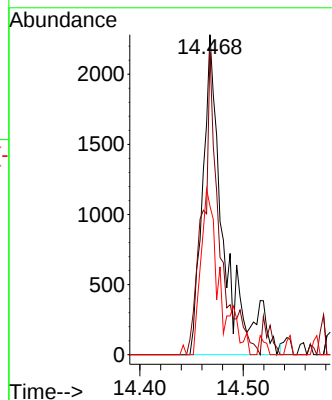
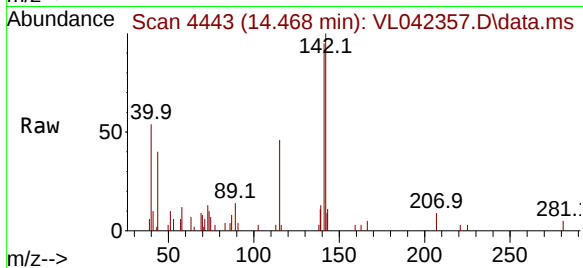
Tgt Ion:142 Resp: 3249

Ion Ratio Lower Upper

142 100

141 73.4 66.8 100.2

115 46.4 33.4 50.2



#81

1,2,4-Trichlorobenzene

Concen: 0.039 ppbv

RT: 13.445 min Scan# 4127

Delta R.T. 0.003 min

Lab File: VL042357.D

Acq: 17 Apr 2025 14:23

Tgt Ion:180 Resp: 1217

Ion Ratio Lower Upper

180 100

182 108.4 76.8 115.2

184 34.3 24.6 36.8

