

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081523\
 Data File : VL040639.D
 Acq On : 15 Aug 2023 19:28
 Operator : SY/MD
 Sample : 03861-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 E065-1100

Quant Time: Aug 16 05:57:46 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Aug 16 05:43:50 2023
 Response via : Initial Calibration

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

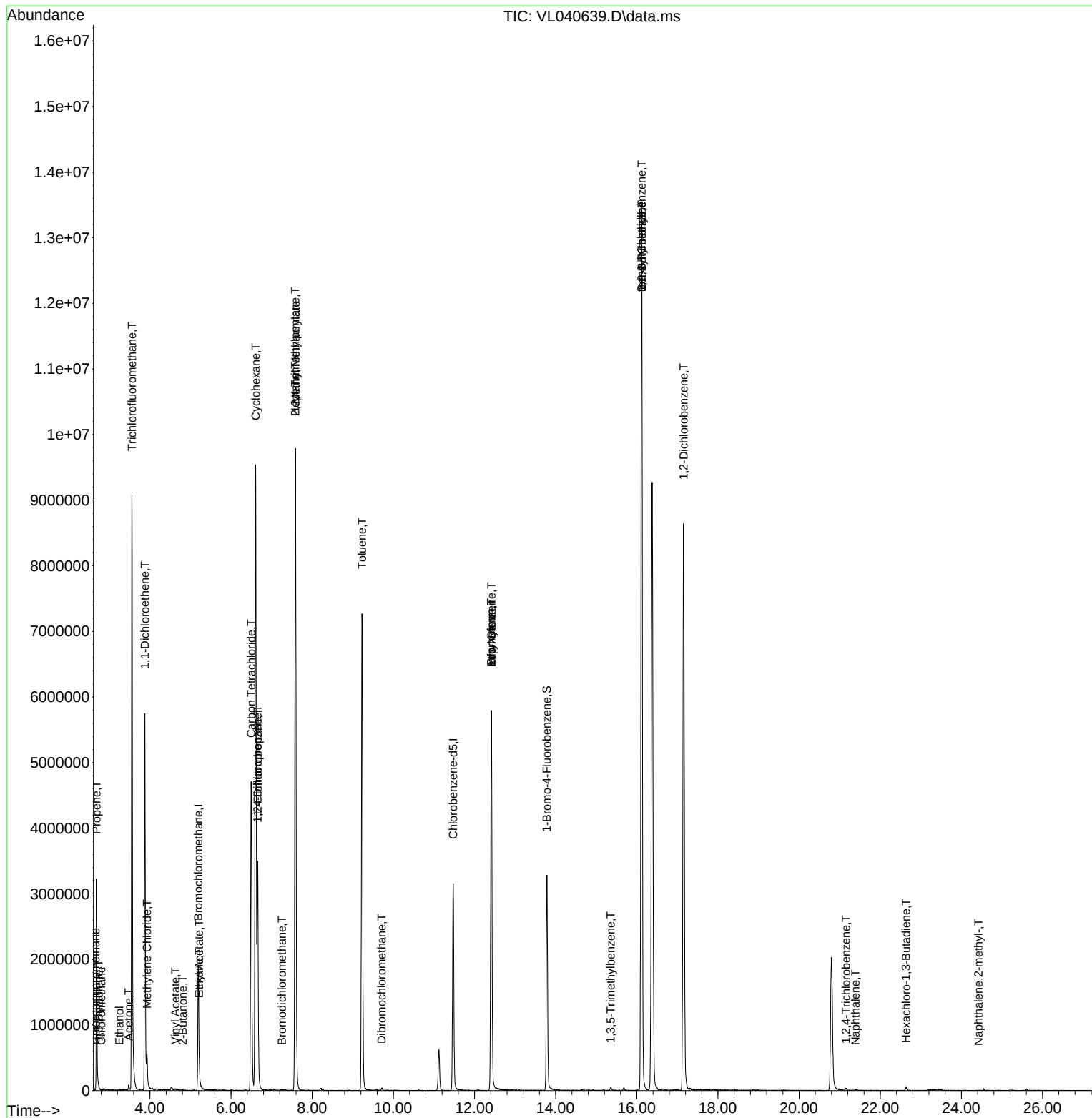
Internal Standards						
1) Bromochloromethane	5.192	49	893326	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2425310	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.474	117	2002478	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.786	95	1527908	9.594	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.900%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	2.661	51	4973	0.034	ppbv	99
4) Chloromethane	2.803	50	2241	0.039	ppbv	95
9) Propene	2.684	41	1267442	27.887	ppbv	99
10) Heptane	7.584	43	4513090	43.122	ppbv	100
11) Trichlorofluoromethane	3.555	101	6238324	40.161	ppbv	94
13) Ethanol	3.246	45	1876	0.148	ppbv #	1
15) Acetone	3.475	43	79633	0.729	ppbv	91
16) 1,3-Butadiene	2.738	39	12878	0.237	ppbv #	8
18) 1,1-Dichloroethene	3.877	96	1760382	33.692	ppbv	97
20) Methylene Chloride	3.928	84	135339	2.535	ppbv	90
23) Vinyl Acetate	4.626	43	7865	0.063	ppbv #	73
25) Ethyl Acetate	5.211	43	37193	0.181	ppbv #	80
26) Hexane	5.211	57	47872	0.482	ppbv #	40
30) Cyclohexane	6.606	84	3669432	48.301	ppbv	94
34) 2-Butanone	4.809	43	9230	0.075	ppbv #	80
35) Carbon Tetrachloride	6.494	117	2957686	19.490	ppbv	99
39) 1,2-Dichloropropane	6.658	63	581170	7.917	ppbv #	31
42) Bromodichloromethane	7.256	83	4924	0.030	ppbv #	76
43) Methyl Methacrylate	7.587	69	69086	0.956	ppbv #	1
44) 2,2,4-Trimethylpentane	7.584	57	2406716	7.717	ppbv #	40
48) Dibromochloromethane	9.712	129	6007	0.046	ppbv #	1
49) Bromoform	12.413	173	3149457	30.291	ppbv	98
53) Toluene	9.227	91	5917573	28.861	ppbv	97
58) Ethyl Benzene	12.417	91	995573	4.123	ppbv #	44
59) m/p-Xylene	12.417	91	995573	4.520	ppbv #	32
65) tert-Butylbenzene	16.121	119	1247676	4.556	ppbv #	66
66) Benzyl Chloride	16.121	91	1418092	41.180	ppbv #	66
73) 1,3,5-Trimethylbenzene	15.359	105	15730	0.075	ppbv #	51
74) 1,2,4-Trimethylbenzene	16.121	105	10456211	42.497	ppbv #	74
77) 1,2-Dichlorobenzene	17.153	146	4473443	31.961	ppbv	99
78) Hexachloro-1,3-Butadiene	22.638	225	4356	0.041	ppbv #	1
79) Naphthalene	21.390	128	5708	0.035	ppbv #	91
80) Naphthalene,2-methyl-	24.419	142	2320	0.050	ppbv #	69
81) 1,2,4-Trichlorobenzene	21.156	180	5689	0.053	ppbv #	11

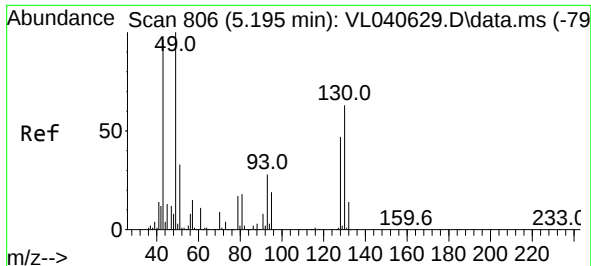
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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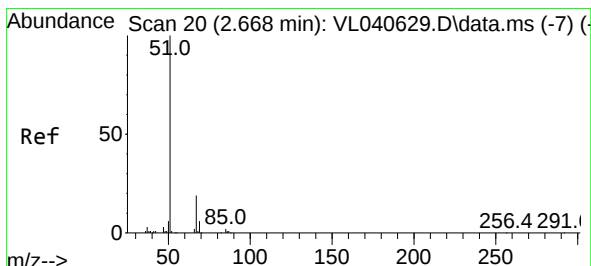
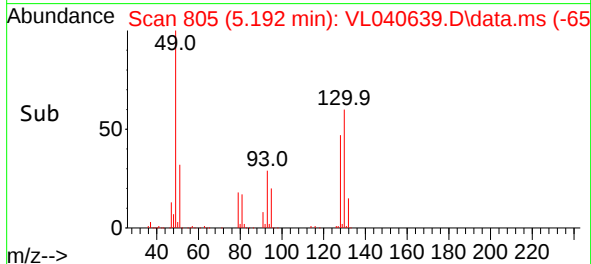
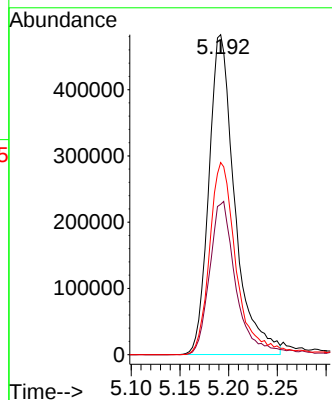
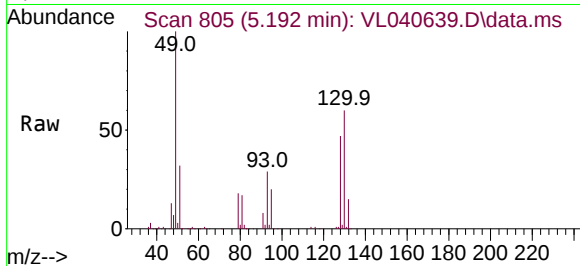




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. -0.003 min
Lab File: VL040639.D
Acq: 15 Aug 2023 19:28

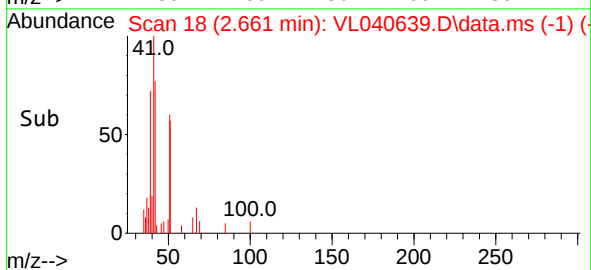
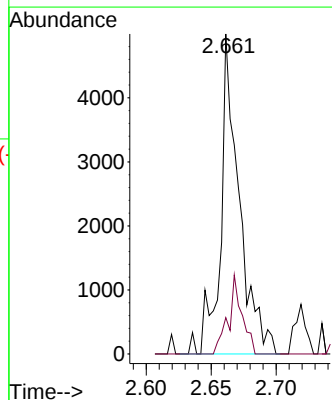
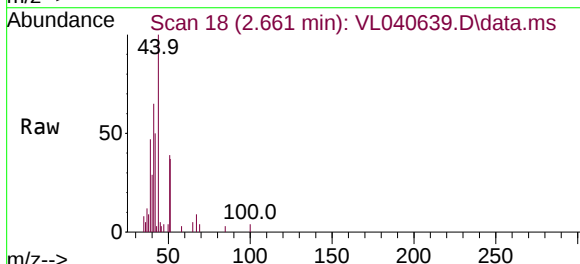
Instrument :
MSVOA_L
ClientSampleId :
E065-1100

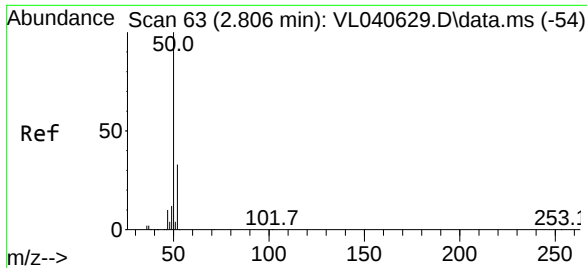
Tgt Ion: 49 Resp: 893326
Ion Ratio Lower Upper
49 100
128 49.4 24.9 74.7
130 64.6 32.2 96.6



#3
Chlorodifluoromethane
Concen: 0.034 ppbv
RT: 2.661 min Scan# 18
Delta R.T. -0.007 min
Lab File: VL040639.D
Acq: 15 Aug 2023 19:28

Tgt Ion: 51 Resp: 4973
Ion Ratio Lower Upper
51 100
67 18.2 15.0 22.6

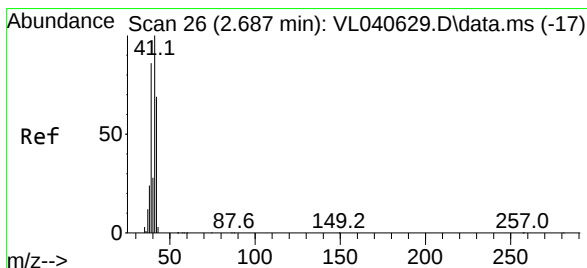
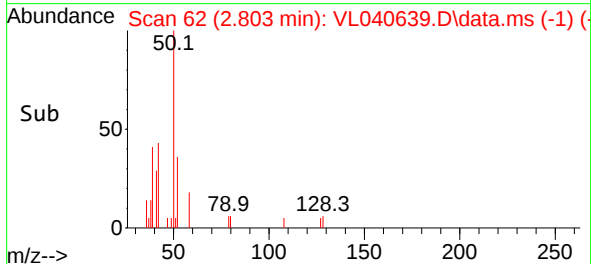
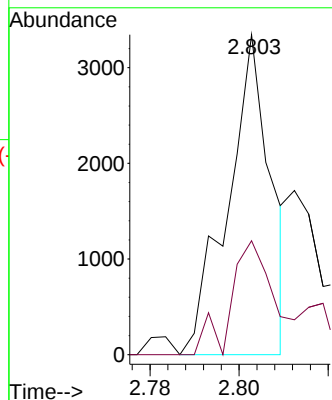
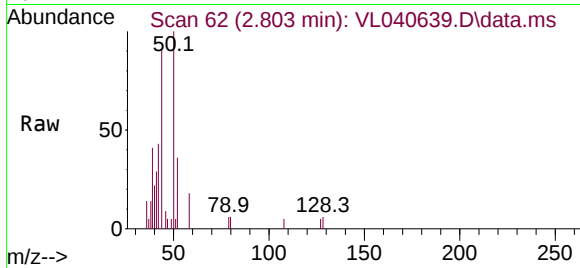




#4
Chloromethane
Concen: 0.039 ppbv
RT: 2.803 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL040639.D
Acq: 15 Aug 2023 19:28

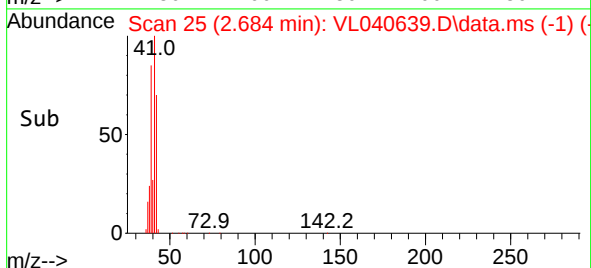
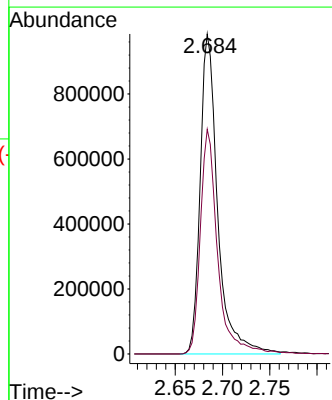
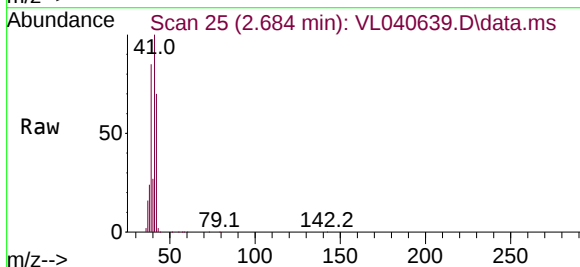
Instrument :
MSVOA_L
ClientSampleId :
E065-1100

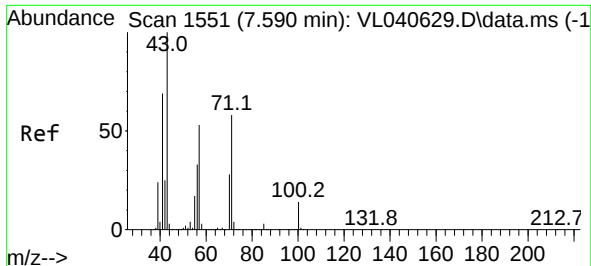
Tgt Ion: 50 Resp: 2241
Ion Ratio Lower Upper
50 100
52 35.6 26.2 39.2



#9
Propene
Concen: 27.887 ppbv
RT: 2.684 min Scan# 25
Delta R.T. -0.003 min
Lab File: VL040639.D
Acq: 15 Aug 2023 19:28

Tgt Ion: 41 Resp: 1267442
Ion Ratio Lower Upper
41 100
42 69.7 56.5 84.7

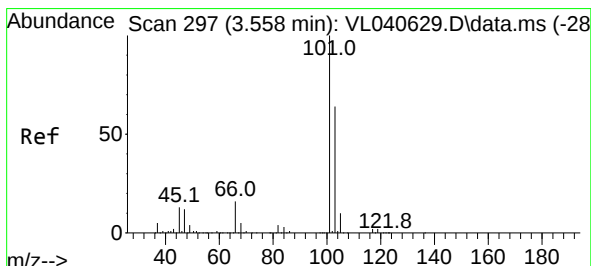
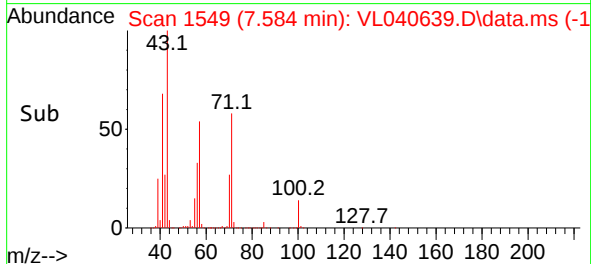
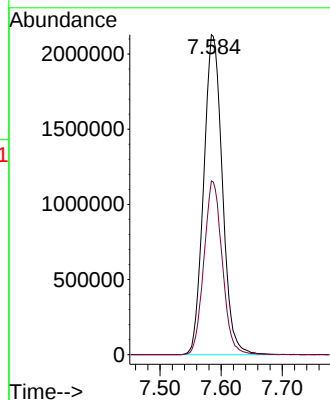
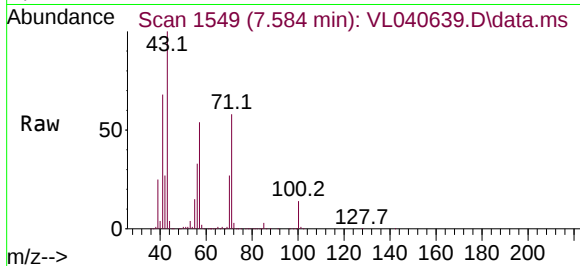




#10
Heptane
Concen: 43.122 ppbv
RT: 7.584 min Scan# 11
Delta R.T. -0.006 min
Lab File: VL040639.D
Acq: 15 Aug 2023 19:28

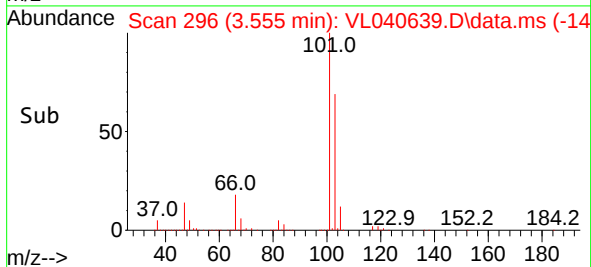
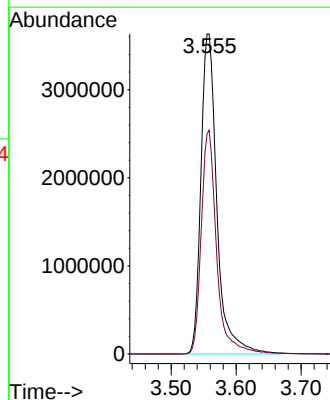
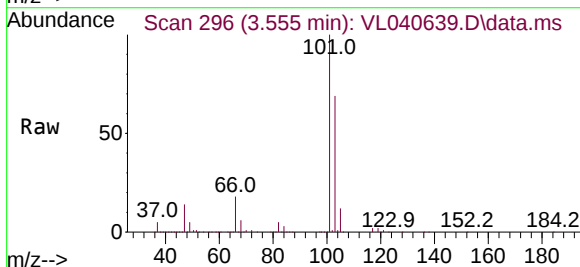
Instrument :
MSVOA_L
ClientSampleId :
E065-1100

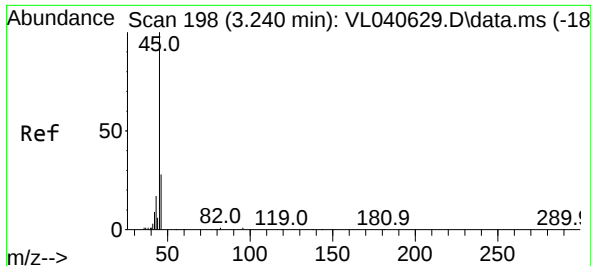
Tgt Ion: 43 Resp: 4513090
Ion Ratio Lower Upper
43 100
57 53.4 42.5 63.7



#11
Trichlorofluoromethane
Concen: 40.161 ppbv
RT: 3.555 min Scan# 296
Delta R.T. -0.003 min
Lab File: VL040639.D
Acq: 15 Aug 2023 19:28

Tgt Ion:101 Resp: 6238324
Ion Ratio Lower Upper
101 100
103 68.8 51.1 76.7

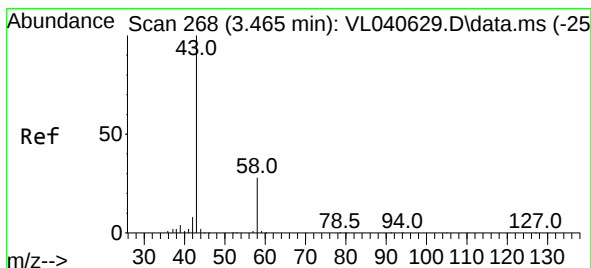
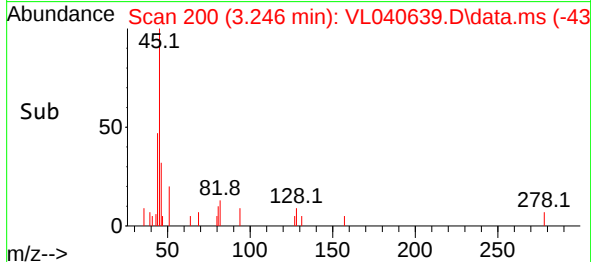
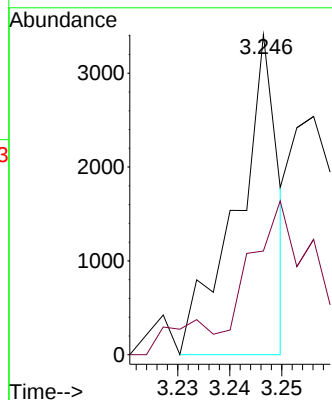
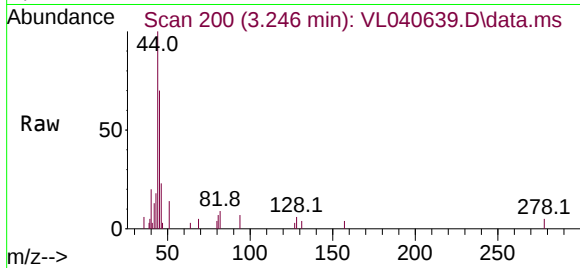




#13
 Ethanol
 Concen: 0.148 ppbv
 RT: 3.246 min Scan# 200
 Delta R.T. 0.006 min
 Lab File: VL040639.D
 Acq: 15 Aug 2023 19:28

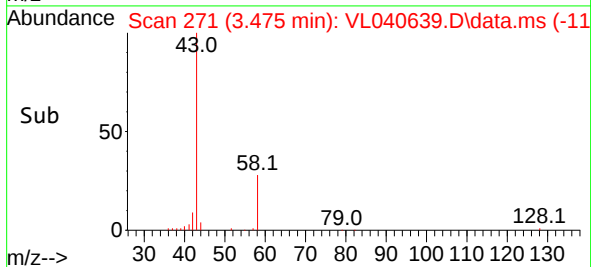
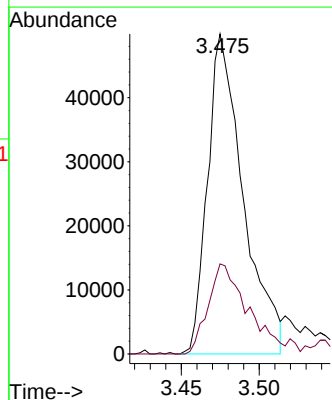
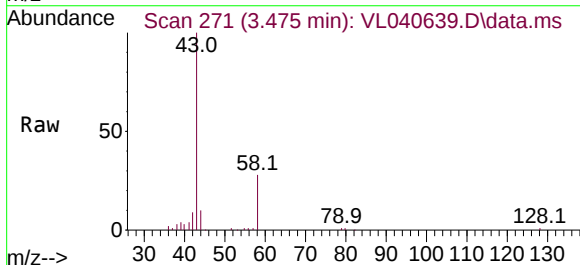
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 ClientSampleId :
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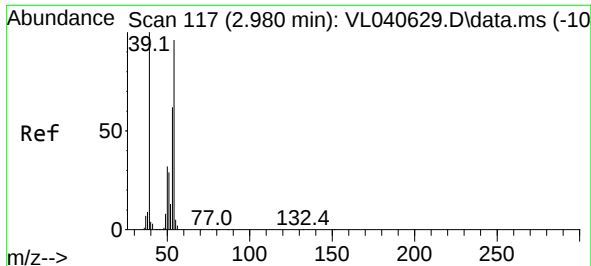
Tgt Ion: 45 Resp: 1876
 Ion Ratio Lower Upper
 45 100
 46 112.2 14.2 56.6#



#15
 Acetone
 Concen: 0.729 ppbv
 RT: 3.475 min Scan# 271
 Delta R.T. 0.010 min
 Lab File: VL040639.D
 Acq: 15 Aug 2023 19:28

Tgt Ion: 43 Resp: 79633
 Ion Ratio Lower Upper
 43 100
 58 32.6 22.4 33.6





#16

1,3-Butadiene

Concen: 0.237 ppbv

RT: 2.738 min Scan# 41

Delta R.T. -0.241 min

Lab File: VL040639.D

Acq: 15 Aug 2023 19:28

Instrument :

MSVOA_L

ClientSampleId :

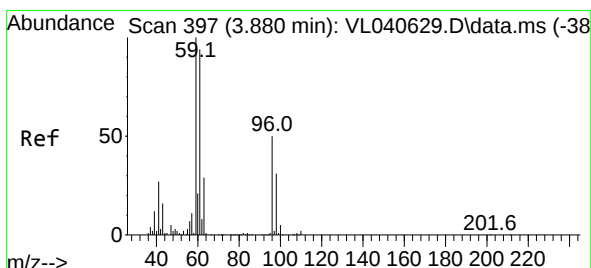
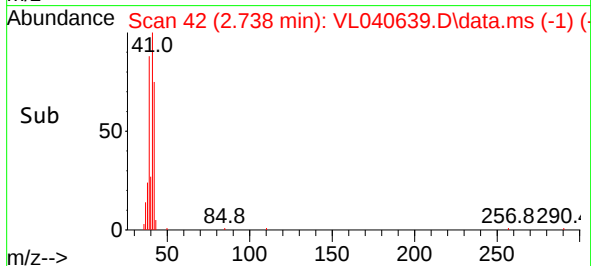
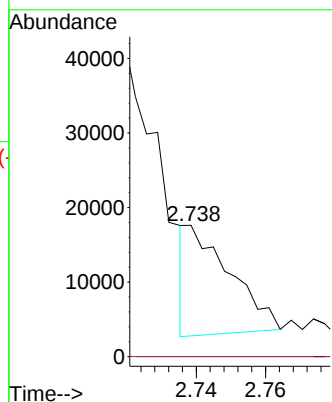
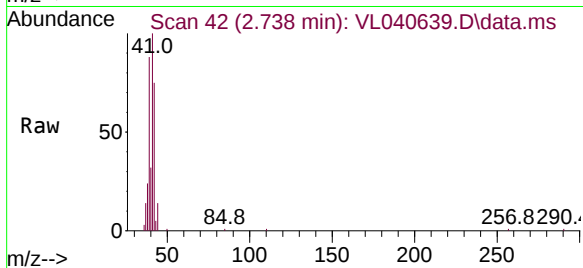
E065-1100

Tgt Ion: 39 Resp: 12878

Ion Ratio Lower Upper

39 100

54 0.0 66.6 99.8#



#18

1,1-Dichloroethene

Concen: 33.692 ppbv

RT: 3.877 min Scan# 396

Delta R.T. -0.003 min

Lab File: VL040639.D

Acq: 15 Aug 2023 19:28

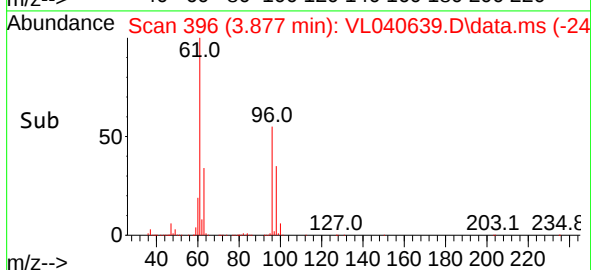
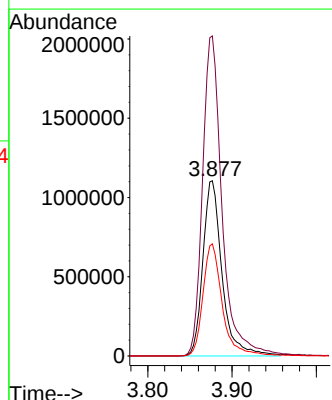
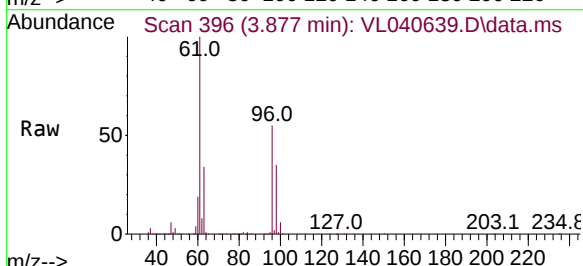
Tgt Ion: 96 Resp: 1760382

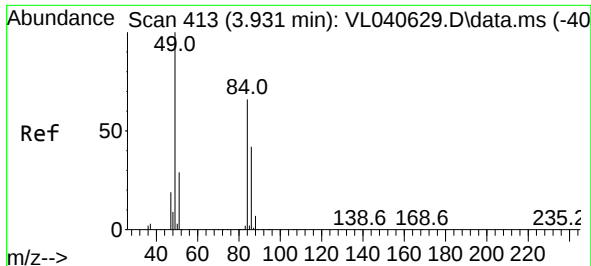
Ion Ratio Lower Upper

96 100

61 182.5 150.4 225.6

98 64.0 49.7 74.5

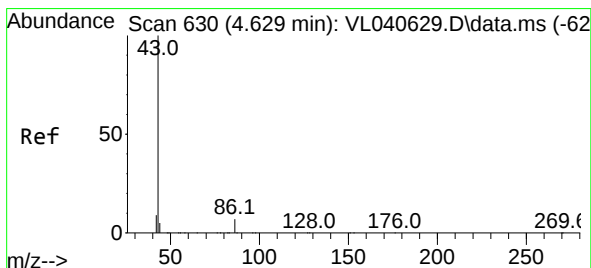
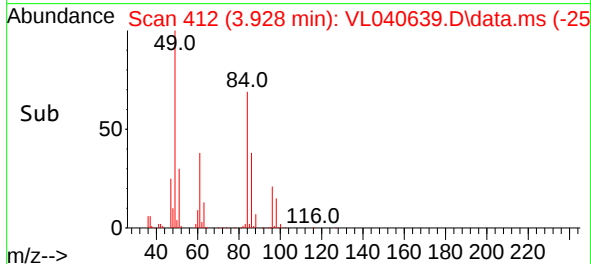
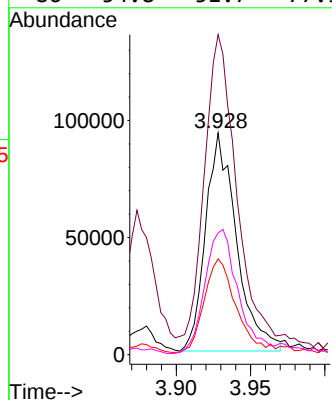
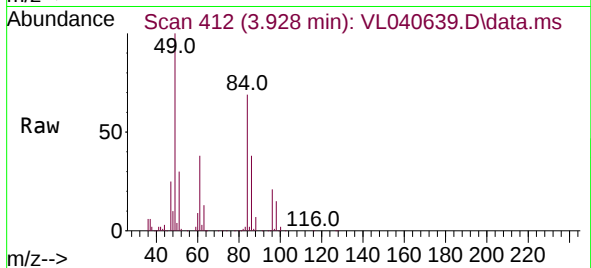




#20
Methylene Chloride
Concen: 2.535 ppbv
RT: 3.928 min Scan# 413
Delta R.T. -0.003 min
Lab File: VL040639.D
Acq: 15 Aug 2023 19:28

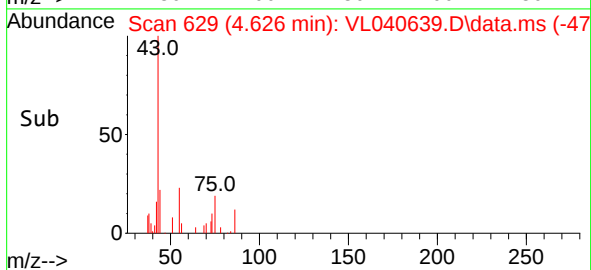
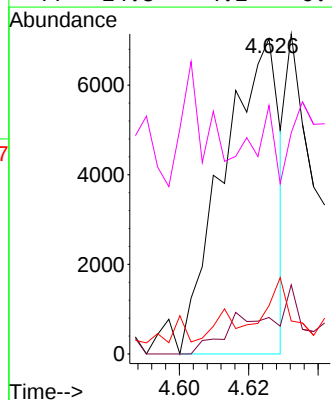
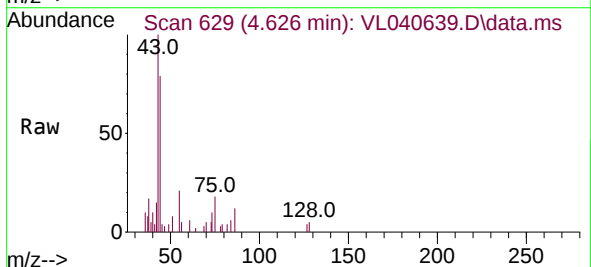
Instrument :
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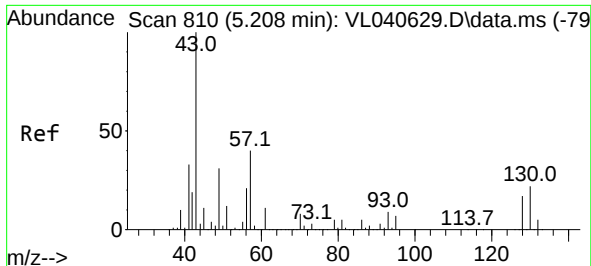
Tgt Ion: 84 Resp: 135339
Ion Ratio Lower Upper
84 100
49 138.3 122.1 183.1
51 42.3 35.4 53.2
86 54.8 51.7 77.5



#23
Vinyl Acetate
Concen: 0.063 ppbv
RT: 4.626 min Scan# 629
Delta R.T. -0.003 min
Lab File: VL040639.D
Acq: 15 Aug 2023 19:28

Tgt Ion: 43 Resp: 7865
Ion Ratio Lower Upper
43 100
86 11.6 5.0 7.6#
42 3.2 7.8 11.8#
44 24.8 4.2 6.4#





#25

Ethyl Acetate

Concen: 0.181 ppbv

RT: 5.211 min Scan# 811

Delta R.T. 0.003 min

Lab File: VL040639.D

Acq: 15 Aug 2023 19:28

Instrument :

MSVOA_L

ClientSampleId :

E065-1100

Tgt Ion: 43 Resp: 37193

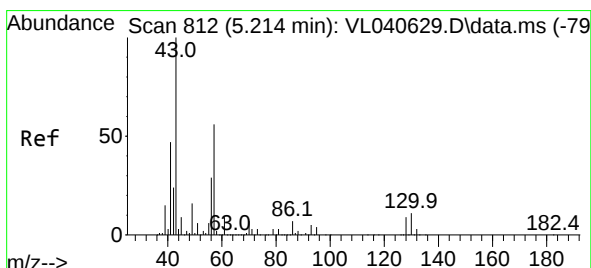
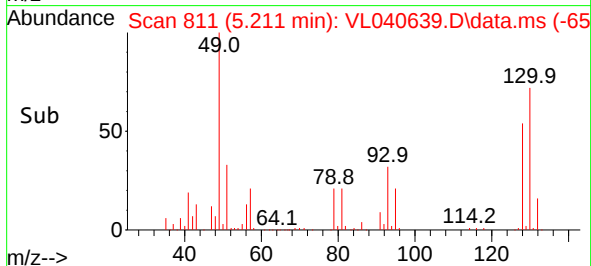
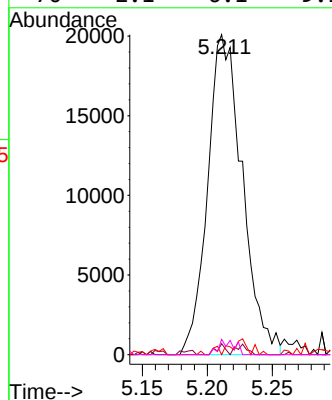
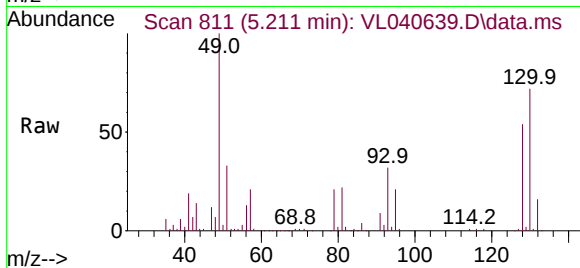
Ion Ratio Lower Upper

43 100

45 1.9 8.2 12.4#

61 2.9 8.3 12.5#

70 2.1 6.1 9.1#



#26

Hexane

Concen: 0.482 ppbv

RT: 5.211 min Scan# 811

Delta R.T. -0.003 min

Lab File: VL040639.D

Acq: 15 Aug 2023 19:28

Tgt Ion: 57 Resp: 47872

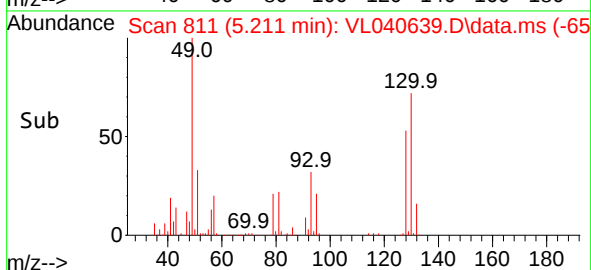
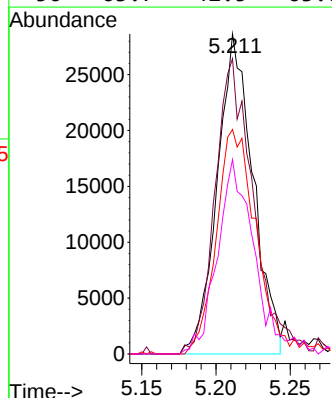
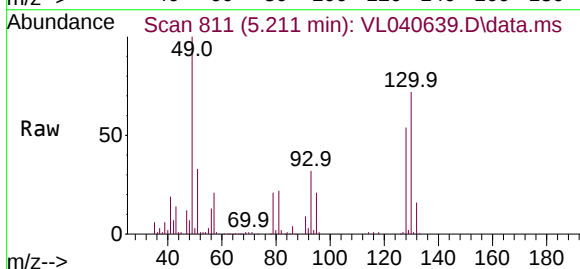
Ion Ratio Lower Upper

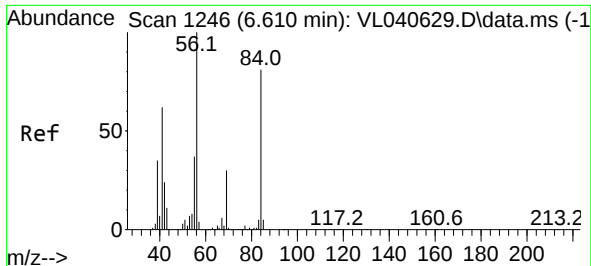
57 100

41 100.6 69.3 103.9

43 80.2 177.9 266.9#

56 63.7 42.5 63.7

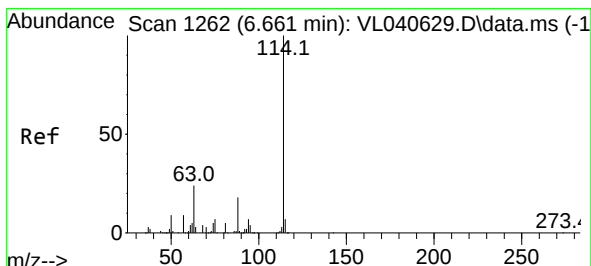
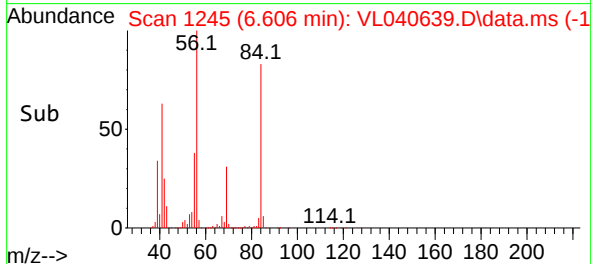
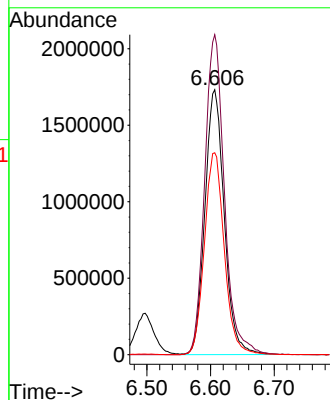
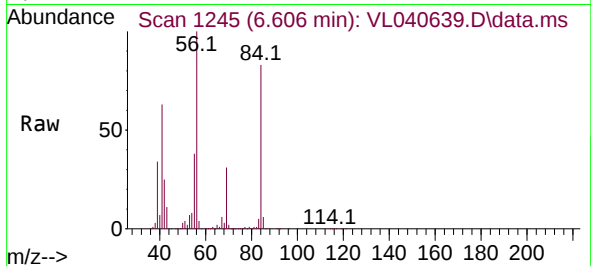




#30
Cyclohexane
Concen: 48.301 ppbv
RT: 6.606 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL040639.D
Acq: 15 Aug 2023 19:28

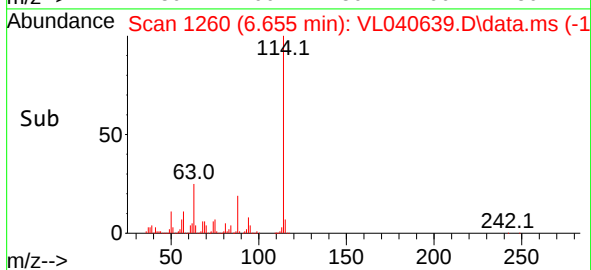
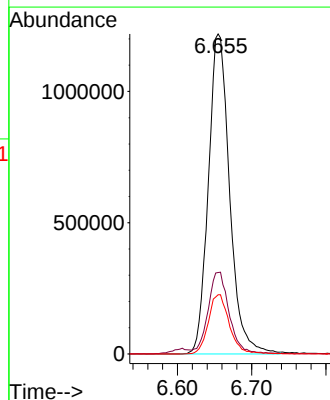
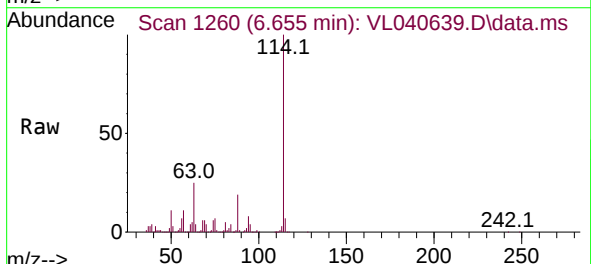
Instrument :
MSVOA_L
ClientSampleId :
E065-1100

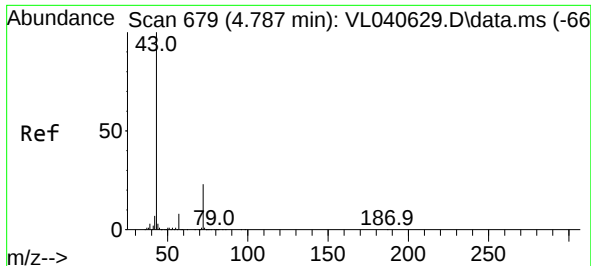
Tgt Ion: 84 Resp: 3669432
Ion Ratio Lower Upper
84 100
56 123.0 105.4 158.2
41 78.2 64.2 96.2



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.655 min Scan# 1260
Delta R.T. -0.006 min
Lab File: VL040639.D
Acq: 15 Aug 2023 19:28

Tgt Ion: 114 Resp: 2425310
Ion Ratio Lower Upper
114 100
63 27.0 20.2 30.2
88 18.3 14.1 21.1

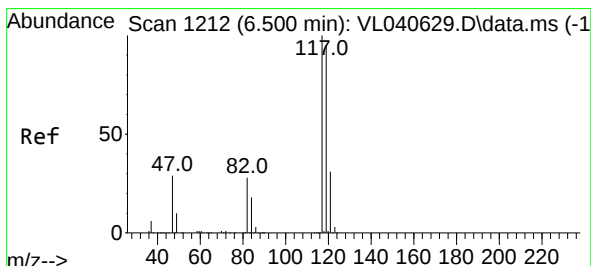
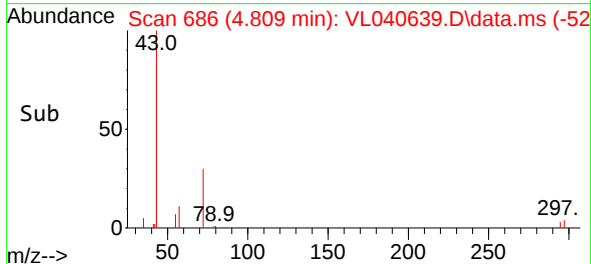
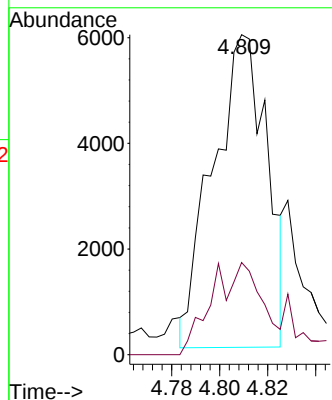
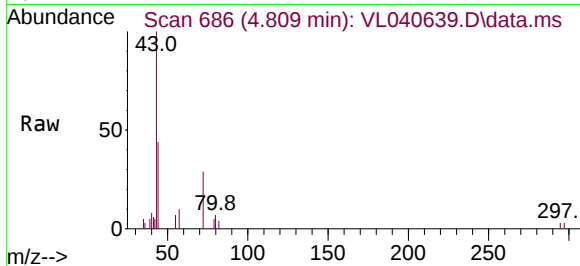




#34
2-Butanone
Concen: 0.075 ppbv
RT: 4.809 min Scan# 61
Delta R.T. 0.022 min
Lab File: VL040639.D
Acq: 15 Aug 2023 19:28

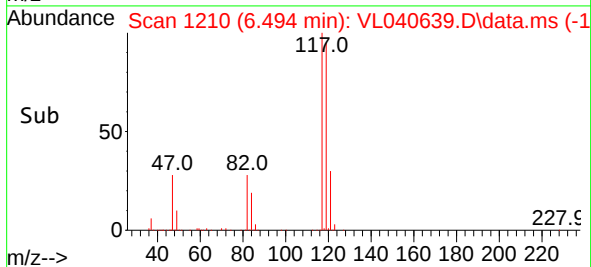
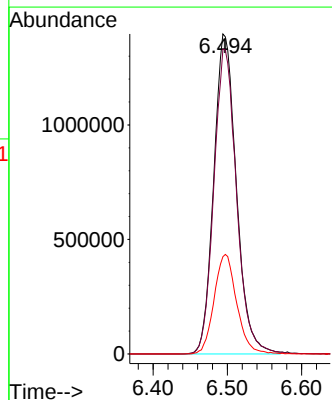
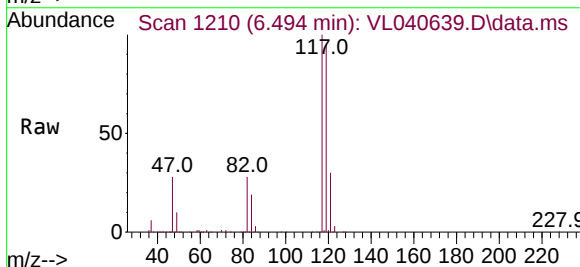
Instrument :
MSVOA_L
ClientSampleId :
E065-1100

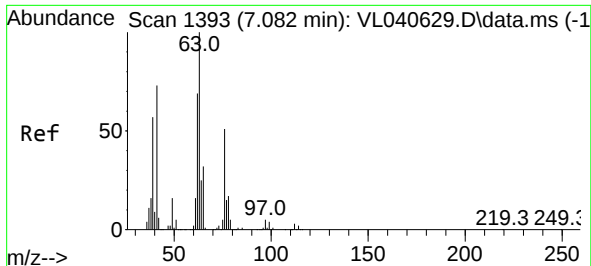
Tgt Ion: 43 Resp: 9230
Ion Ratio Lower Upper
43 100
72 33.7 19.2 28.8#



#35
Carbon Tetrachloride
Concen: 19.490 ppbv
RT: 6.494 min Scan# 1210
Delta R.T. -0.006 min
Lab File: VL040639.D
Acq: 15 Aug 2023 19:28

Tgt Ion: 117 Resp: 2957686
Ion Ratio Lower Upper
117 100
119 95.2 75.6 113.4
121 30.4 24.9 37.3





#39

1,2-Dichloropropane

Concen: 7.917 ppbv

RT: 6.658 min Scan# 11

Delta R.T. -0.424 min

Lab File: VL040639.D

Acq: 15 Aug 2023 19:28

Instrument :

MSVOA_L

ClientSampleId :

E065-1100

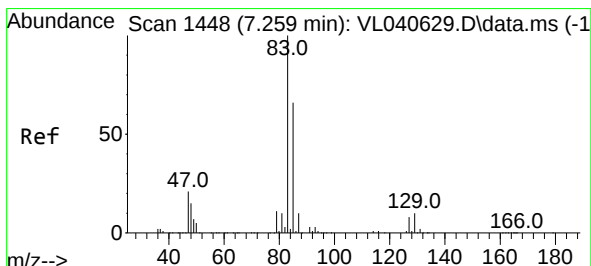
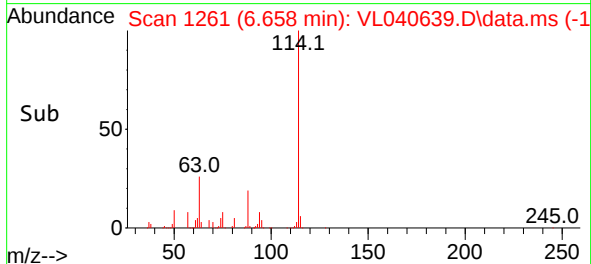
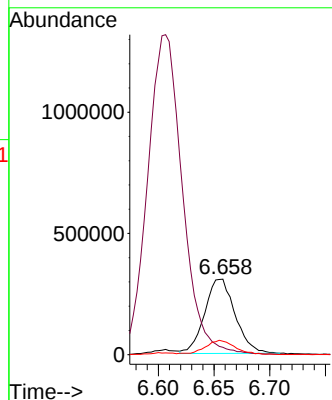
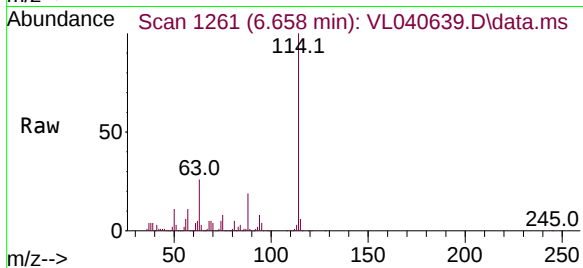
Tgt Ion: 63 Resp: 581170

Ion Ratio Lower Upper

63 100

41 9.6 58.2 87.2#

62 17.9 55.0 82.4#



#42

Bromodichloromethane

Concen: 0.030 ppbv

RT: 7.256 min Scan# 1447

Delta R.T. -0.003 min

Lab File: VL040639.D

Acq: 15 Aug 2023 19:28

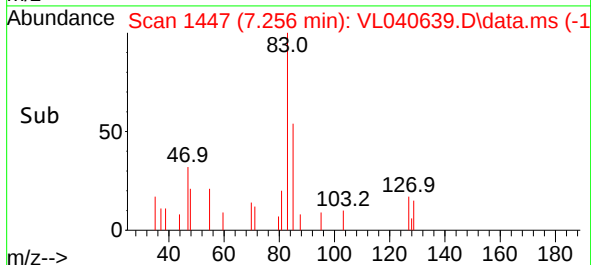
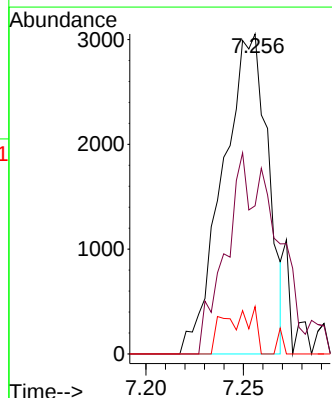
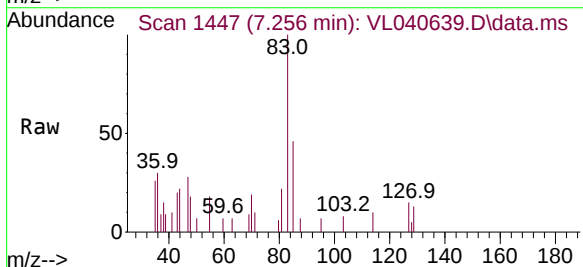
Tgt Ion: 83 Resp: 4924

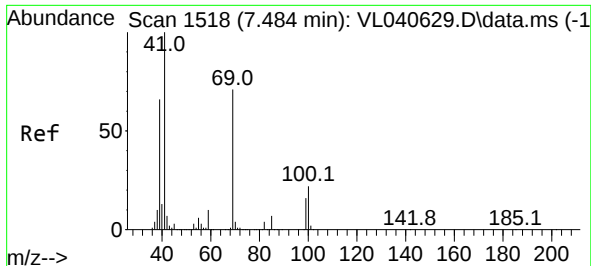
Ion Ratio Lower Upper

83 100

85 46.3 52.5 78.7#

127 14.8 6.1 9.1#





#43

Methyl Methacrylate

Concen: 0.956 ppbv

RT: 7.587 min Scan# 1

Delta R.T. 0.103 min

Lab File: VL040639.D

Acq: 15 Aug 2023 19:28

Instrument :

MSVOA_L

ClientSampleId :

E065-1100

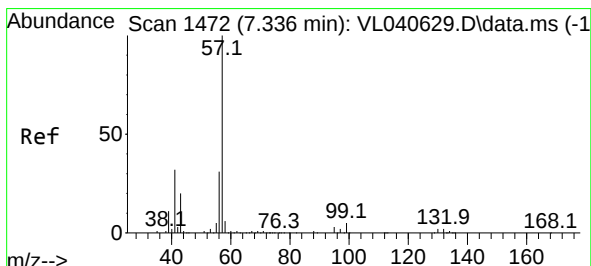
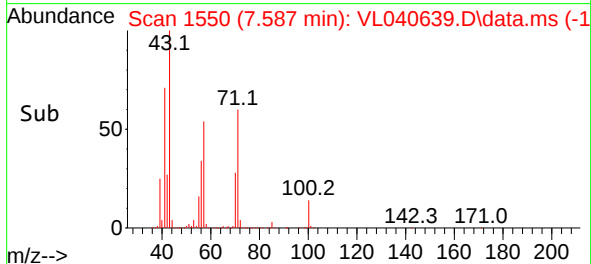
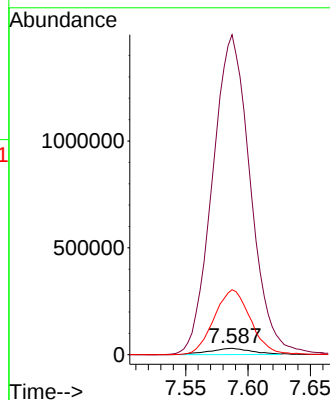
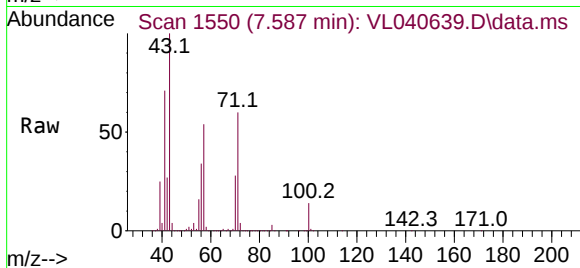
Tgt Ion: 69 Resp: 69086

Ion Ratio Lower Upper

69 100

41 4620.2 111.8 167.8#

100 903.7 25.8 38.6#



#44

2,2,4-Trimethylpentane

Concen: 7.717 ppbv

RT: 7.584 min Scan# 1549

Delta R.T. 0.248 min

Lab File: VL040639.D

Acq: 15 Aug 2023 19:28

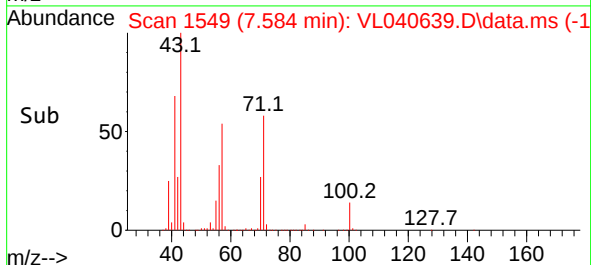
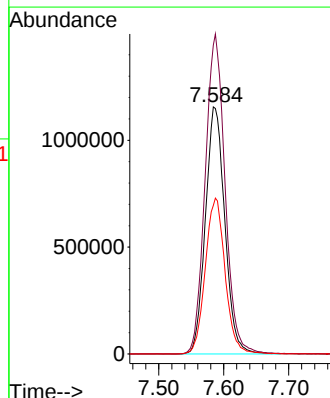
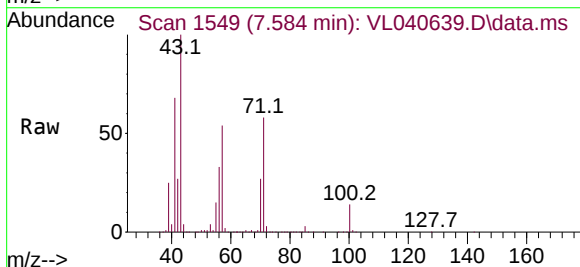
Tgt Ion: 57 Resp: 2406716

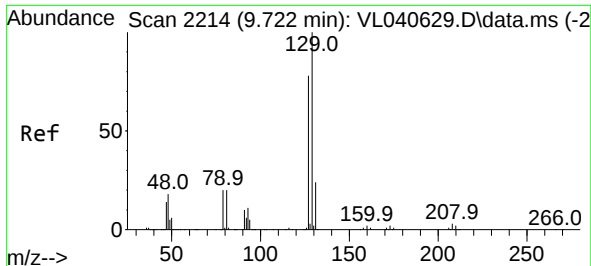
Ion Ratio Lower Upper

57 100

41 0.0 26.2 39.4#

56 64.6 24.7 37.1#

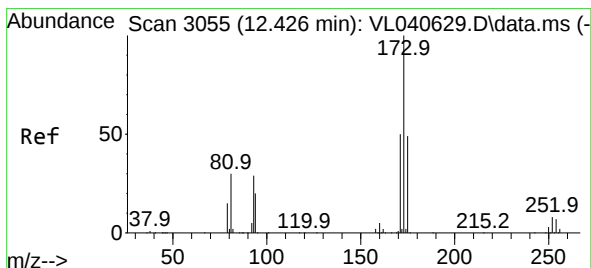
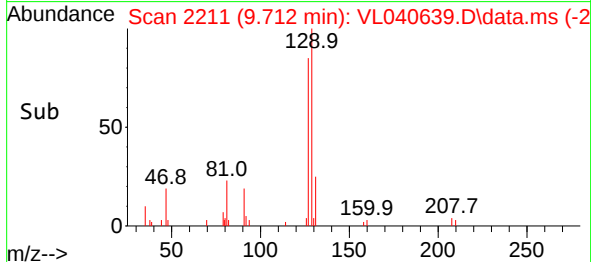
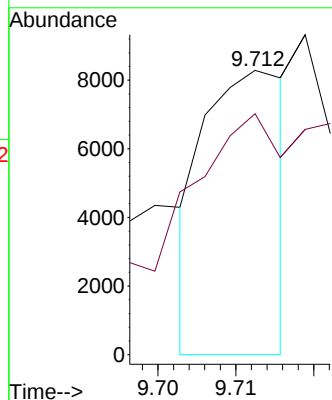
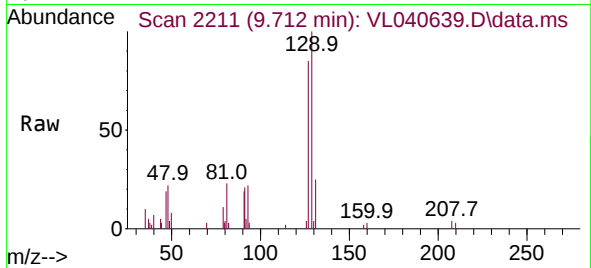




#48
 Dibromochloromethane
 Concen: 0.046 ppbv
 RT: 9.712 min Scan# 211
 Delta R.T. -0.010 min
 Lab File: VL040639.D
 Acq: 15 Aug 2023 19:28

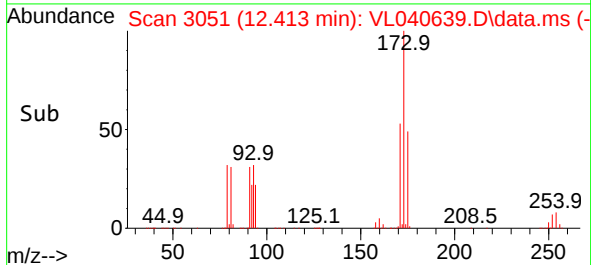
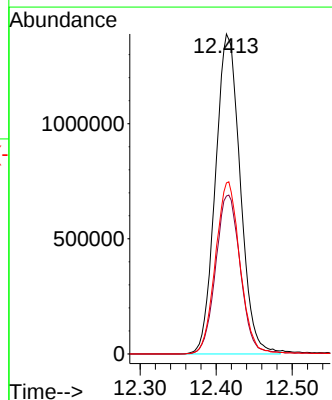
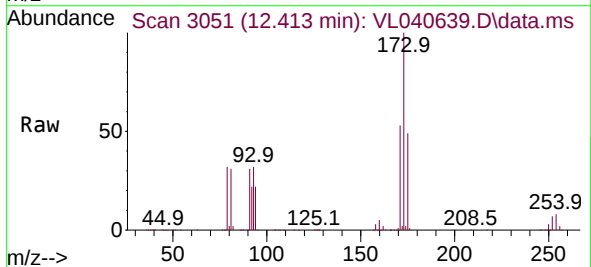
Instrument :
 MSVOA_L
 ClientSampleId :
 E065-1100

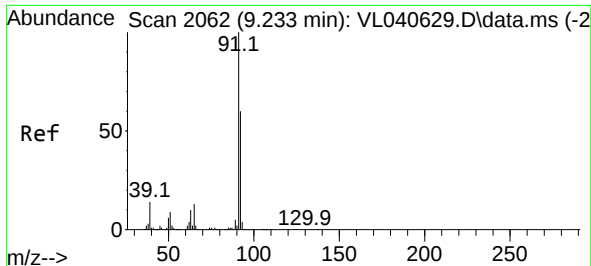
Tgt Ion:129 Resp: 6007
 Ion Ratio Lower Upper
 129 100
 127 250.5 38.9 116.7#



#49
 Bromoform
 Concen: 30.291 ppbv
 RT: 12.413 min Scan# 3051
 Delta R.T. -0.013 min
 Lab File: VL040639.D
 Acq: 15 Aug 2023 19:28

Tgt Ion:173 Resp: 3149457
 Ion Ratio Lower Upper
 173 100
 175 50.1 39.0 58.6
 171 53.5 41.9 62.9

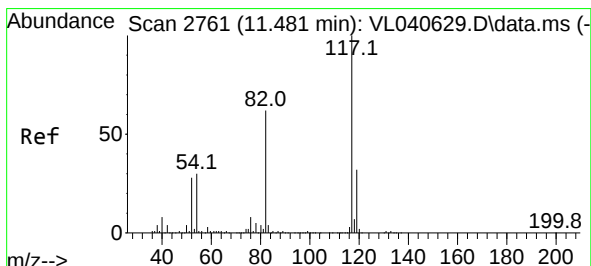
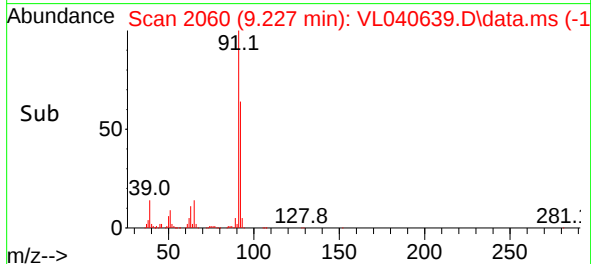
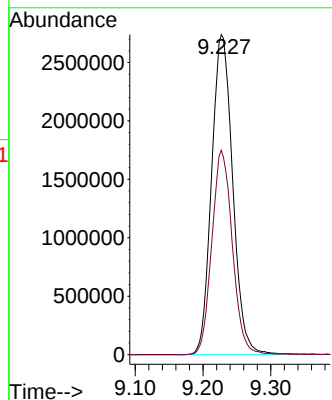
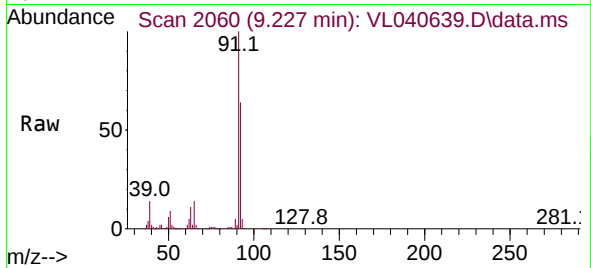




#53
Toluene
Concen: 28.861 ppbv
RT: 9.227 min Scan# 2062
Delta R.T. -0.007 min
Lab File: VL040639.D
Acq: 15 Aug 2023 19:28

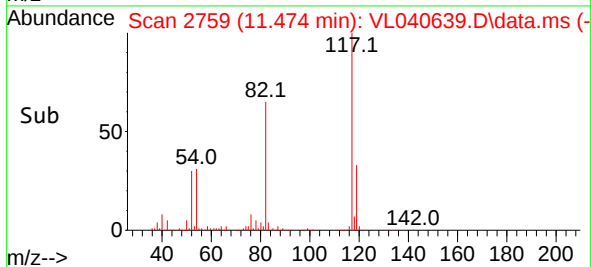
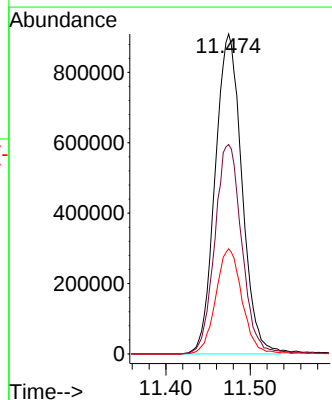
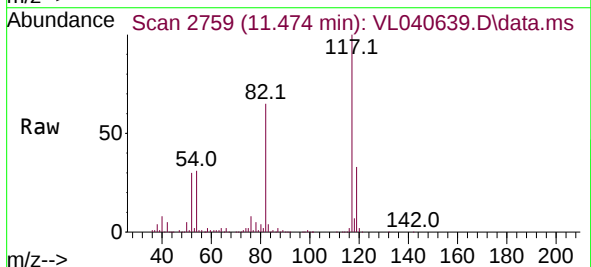
Instrument :
MSVOA_L
ClientSampleId :
E065-1100

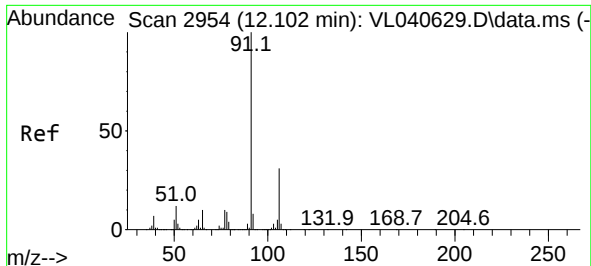
Tgt Ion: 91 Resp: 5917573
Ion Ratio Lower Upper
91 100
92 62.4 48.0 72.0



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.474 min Scan# 2759
Delta R.T. -0.007 min
Lab File: VL040639.D
Acq: 15 Aug 2023 19:28

Tgt Ion: 117 Resp: 2002478
Ion Ratio Lower Upper
117 100
82 66.6 49.5 74.3
119 32.6 24.5 36.7

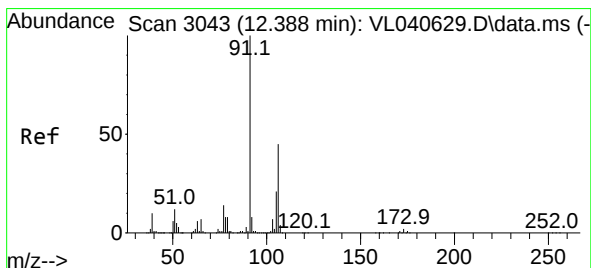
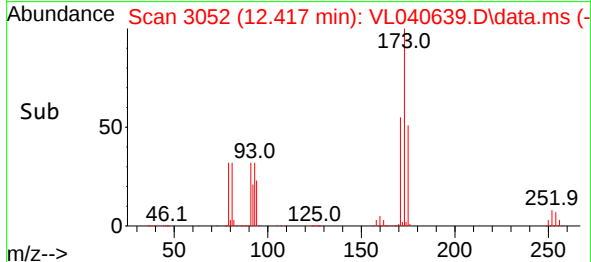
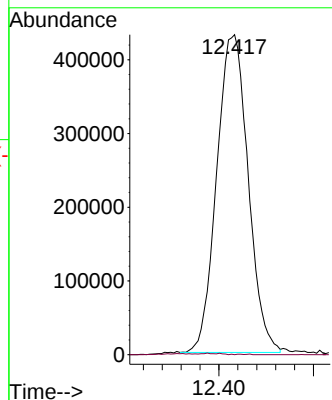
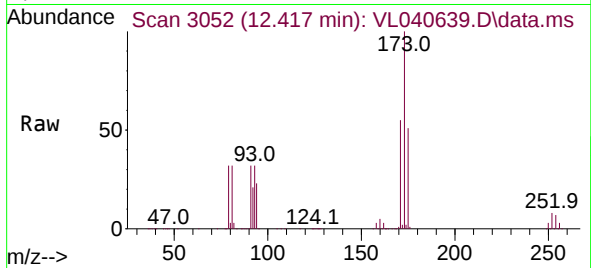




#58
Ethyl Benzene
Concen: 4.123 ppbv
RT: 12.417 min Scan# 3052
Delta R.T. 0.315 min
Lab File: VL040639.D
Acq: 15 Aug 2023 19:28

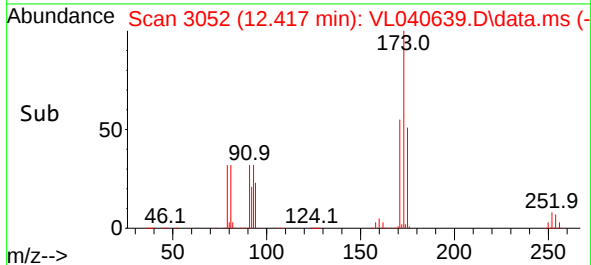
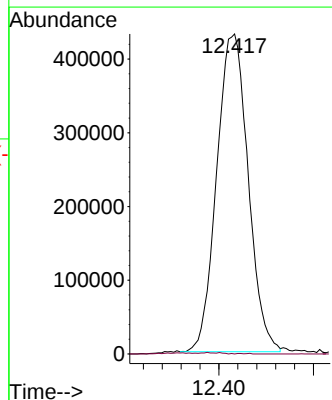
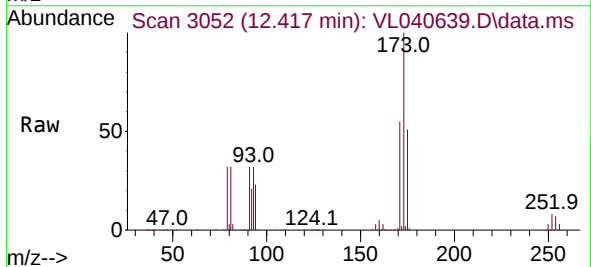
Instrument :
MSVOA_L
ClientSampleId :
E065-1100

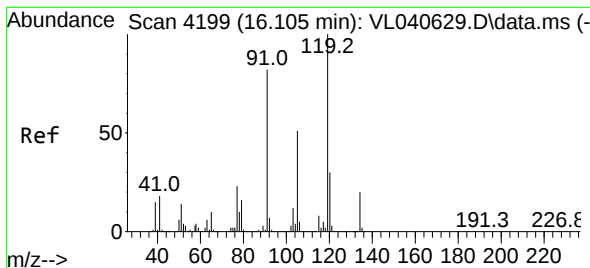
Tgt Ion: 91 Resp: 995573
Ion Ratio Lower Upper
91 100
106 0.0 24.6 36.8#



#59
m/p-Xylene
Concen: 4.520 ppbv
RT: 12.417 min Scan# 3052
Delta R.T. 0.029 min
Lab File: VL040639.D
Acq: 15 Aug 2023 19:28

Tgt Ion: 91 Resp: 995573
Ion Ratio Lower Upper
91 100
106 0.3 35.3 52.9#





#65

tert-Butylbenzene

Concen: 4.556 ppbv

RT: 16.121 min Scan# 4199

Delta R.T. 0.016 min

Lab File: VL040639.D

Acq: 15 Aug 2023 19:28

Instrument :

MSVOA_L

ClientSampleId :

E065-1100

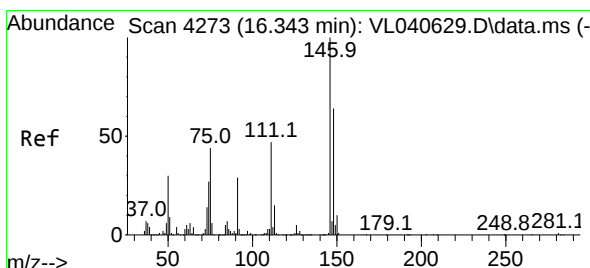
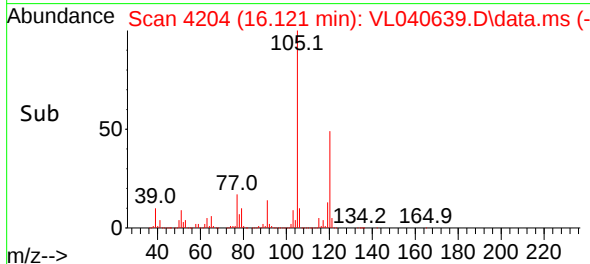
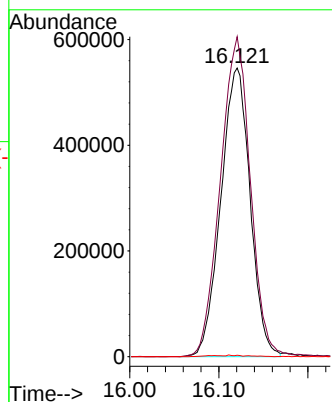
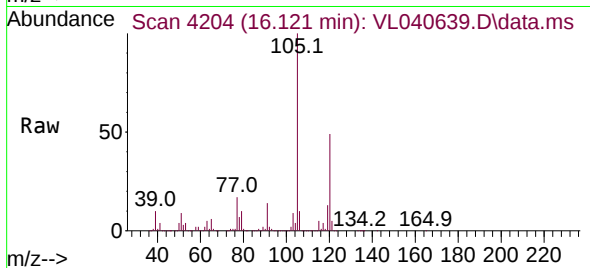
Tgt Ion:119 Resp: 1247676

Ion Ratio Lower Upper

119 100

91 114.3 67.8 101.6#

134 0.7 15.7 23.5#



#66

Benzyl Chloride

Concen: 41.180 ppbv

RT: 16.121 min Scan# 4204

Delta R.T. -0.222 min

Lab File: VL040639.D

Acq: 15 Aug 2023 19:28

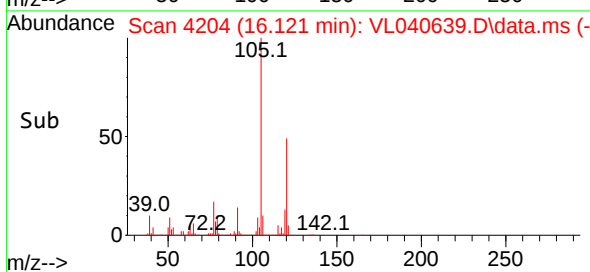
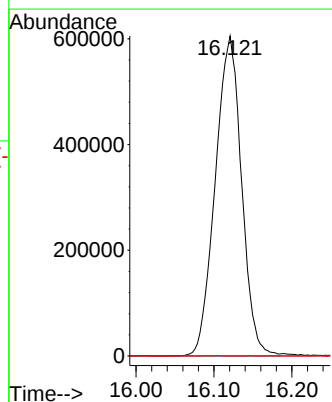
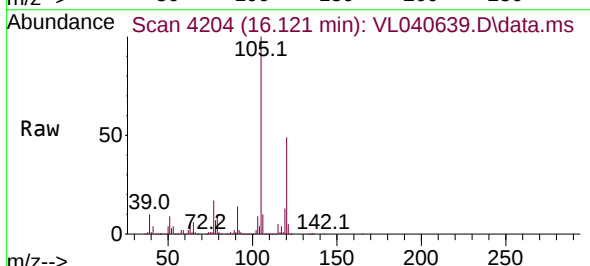
Tgt Ion: 91 Resp: 1418092

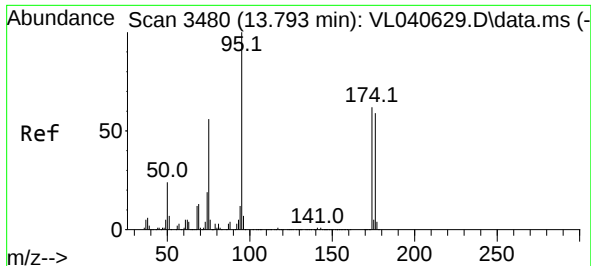
Ion Ratio Lower Upper

91 100

126 0.0 13.6 20.4#

128 0.0 4.3 6.5#

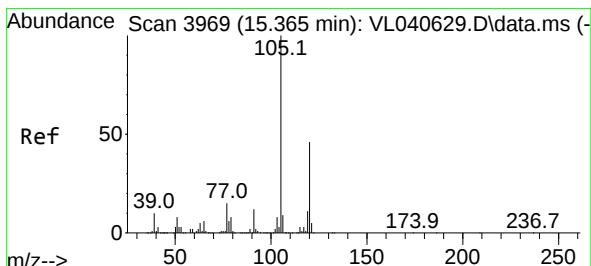
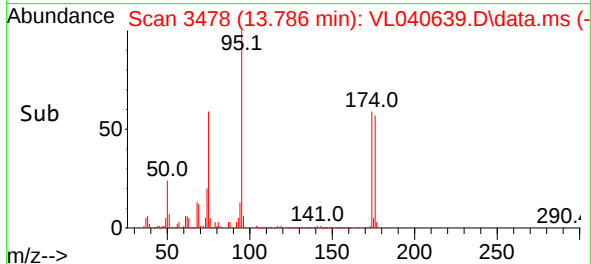
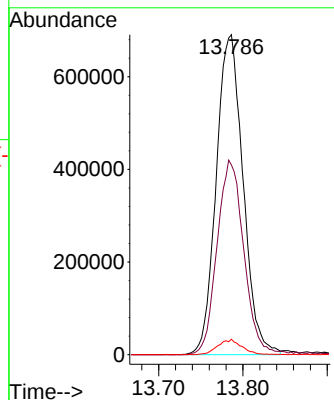
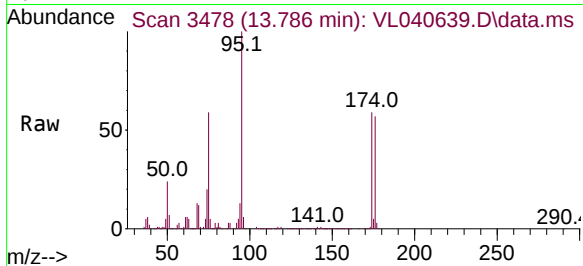




#68
1-Bromo-4-Fluorobenzene
Concen: 9.594 ppbv
RT: 13.786 min Scan# 3480
Delta R.T. -0.007 min
Lab File: VL040639.D
Acq: 15 Aug 2023 19:28

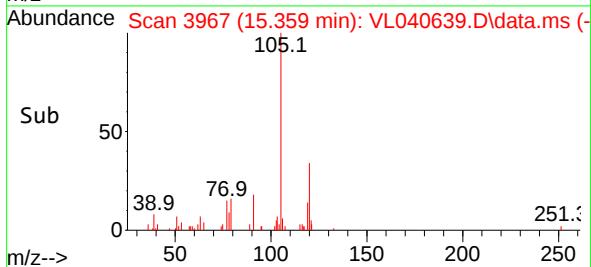
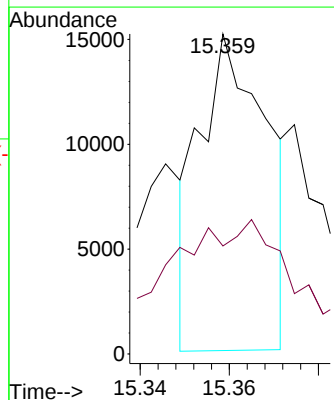
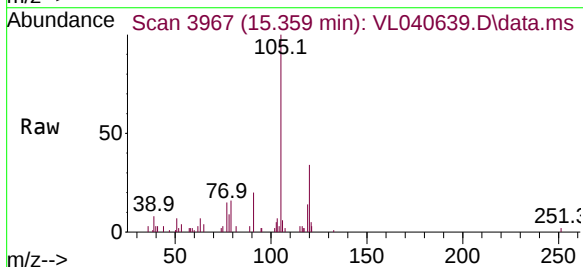
Instrument :
MSVOA_L
ClientSampleId :
E065-1100

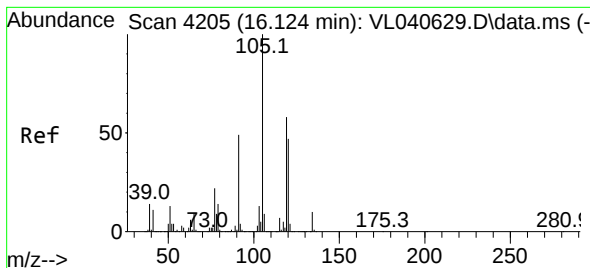
Tgt Ion: 95 Resp: 1527908
Ion Ratio Lower Upper
95 100
174 61.4 49.1 73.7
175 4.3 3.7 5.5



#73
1,3,5-Trimethylbenzene
Concen: 0.075 ppbv
RT: 15.359 min Scan# 3967
Delta R.T. -0.007 min
Lab File: VL040639.D
Acq: 15 Aug 2023 19:28

Tgt Ion: 105 Resp: 15730
Ion Ratio Lower Upper
105 100
120 13.5 36.5 54.7#





#74

1,2,4-Trimethylbenzene

Concen: 42.497 ppbv

RT: 16.121 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL040639.D

Acq: 15 Aug 2023 19:28

Instrument :

MSVOA_L

ClientSampleId :

E065-1100

Tgt Ion:105 Resp:10456211

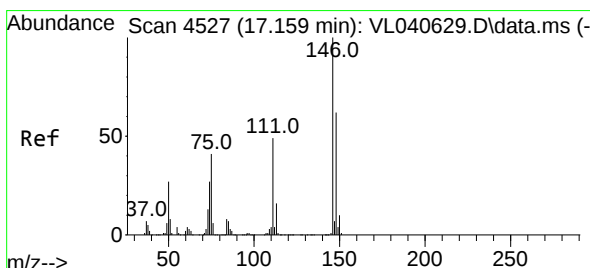
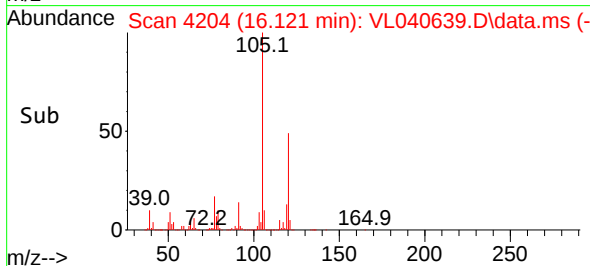
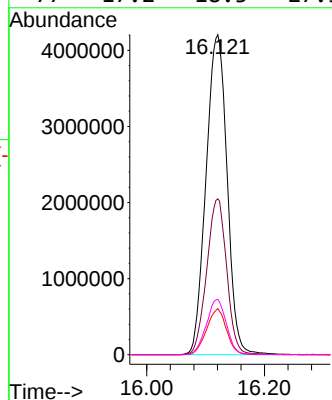
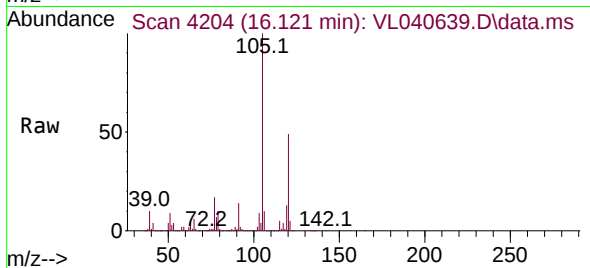
Ion Ratio Lower Upper

105 100

120 48.7 37.7 56.5

91 14.4 41.2 61.8#

77 17.2 18.3 27.5#



#77

1,2-Dichlorobenzene

Concen: 31.961 ppbv

RT: 17.153 min Scan# 4525

Delta R.T. -0.007 min

Lab File: VL040639.D

Acq: 15 Aug 2023 19:28

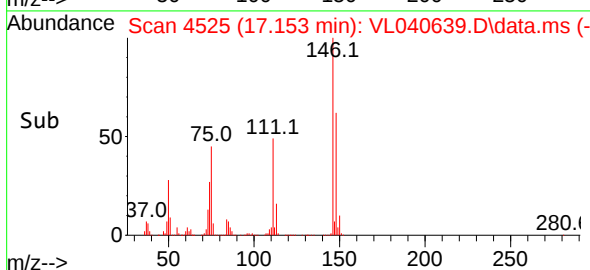
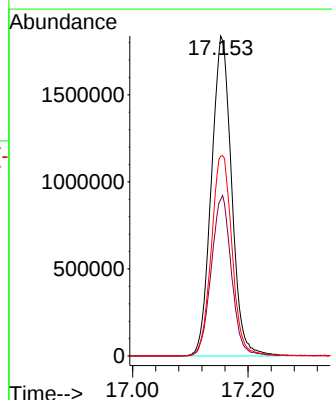
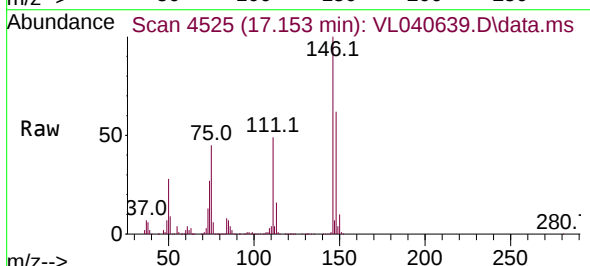
Tgt Ion:146 Resp: 4473443

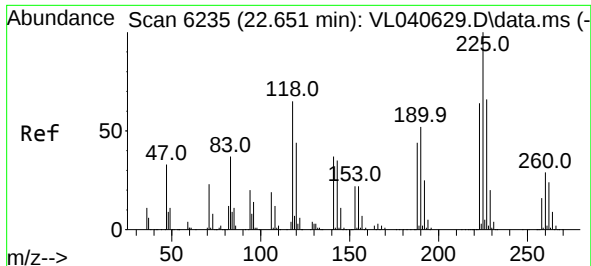
Ion Ratio Lower Upper

146 100

111 50.0 24.6 74.0

148 64.2 32.1 96.5

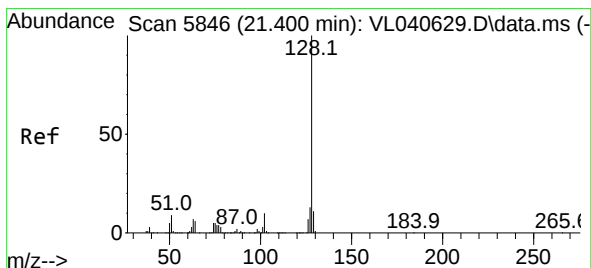
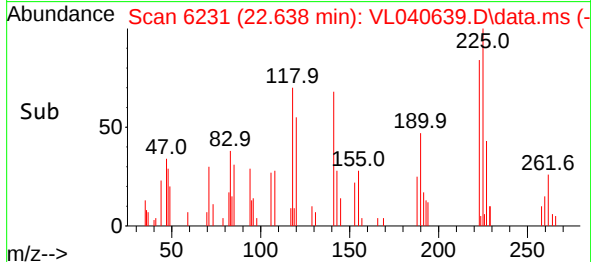
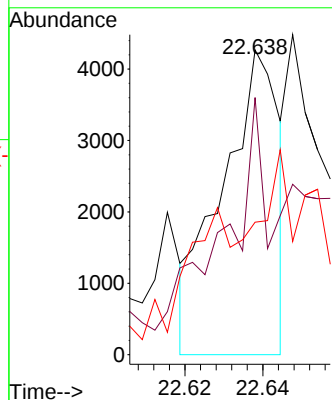
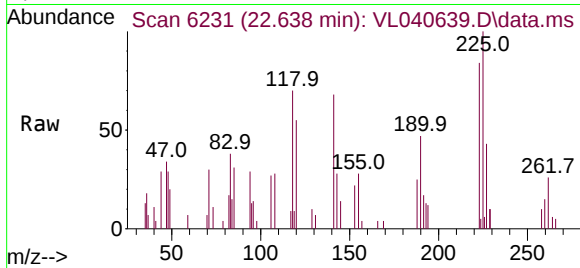




#78
Hexachloro-1,3-Butadiene
Concen: 0.041 ppbv
RT: 22.638 min Scan# 61
Delta R.T. -0.013 min
Lab File: VL040639.D
Acq: 15 Aug 2023 19:28

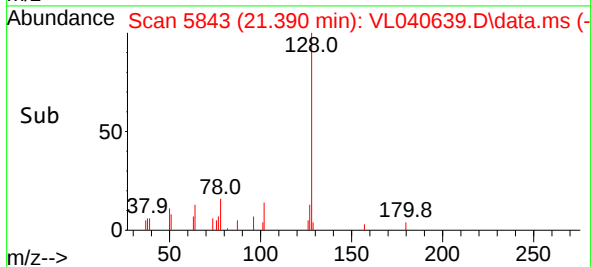
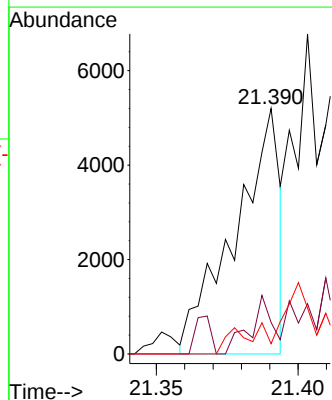
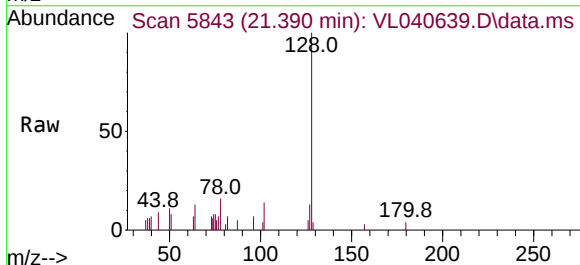
Instrument :
MSVOA_L
ClientSampleId :
E065-1100

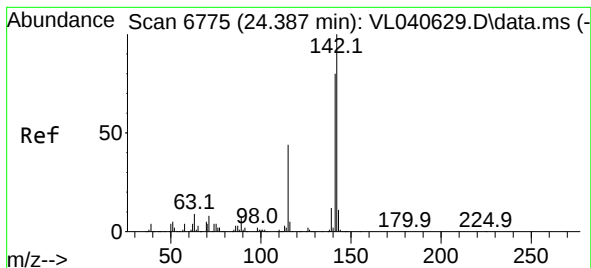
Tgt Ion:225 Resp: 4356
Ion Ratio Lower Upper
225 100
223 168.9 50.6 76.0#
227 0.0 51.2 76.8#



#79
Naphthalene
Concen: 0.035 ppbv
RT: 21.390 min Scan# 5843
Delta R.T. -0.010 min
Lab File: VL040639.D
Acq: 15 Aug 2023 19:28

Tgt Ion:128 Resp: 5708
Ion Ratio Lower Upper
128 100
127 12.8 10.1 15.1
129 4.1 9.2 13.8#





#80

Naphthalene, 2-methyl-

Concen: 0.050 ppbv

RT: 24.419 min Scan# 61

Delta R.T. 0.032 min

Lab File: VL040639.D

Acq: 15 Aug 2023 19:28

Instrument :

MSVOA_L

ClientSampleId :

E065-1100

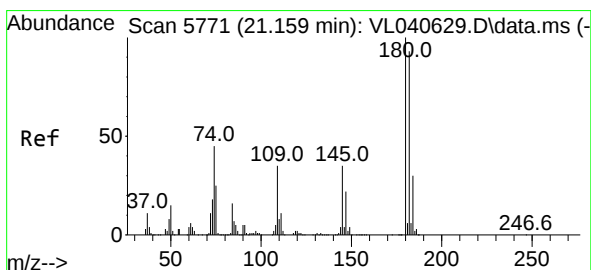
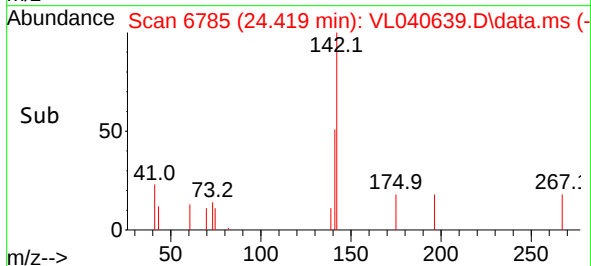
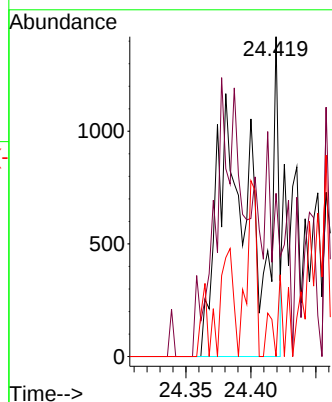
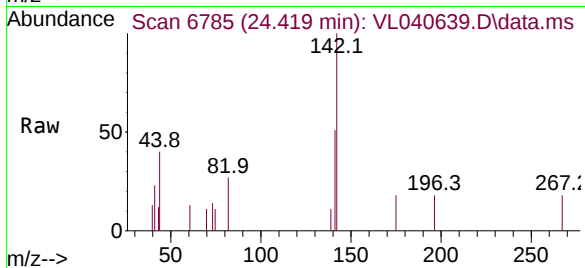
Tgt Ion:142 Resp: 2320

Ion Ratio Lower Upper

142 100

141 121.0 64.6 96.8#

115 44.2 33.7 50.5



#81

1,2,4-Trichlorobenzene

Concen: 0.053 ppbv

RT: 21.156 min Scan# 5770

Delta R.T. -0.003 min

Lab File: VL040639.D

Acq: 15 Aug 2023 19:28

Tgt Ion:180 Resp: 5689

Ion Ratio Lower Upper

180 100

182 0.0 78.0 117.0#

184 0.0 24.6 36.8#

