

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020623\
 Data File : VL040152.D
 Acq On : 6 Feb 2023 19:03
 Operator : SY/MD
 Sample : 01438-06
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 07 05:58:14 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 31 05:24:57 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.176	49	859096	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	2213528	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.455	117	1906352	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1474873	9.309	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.100%
Target Compounds					Qvalue	

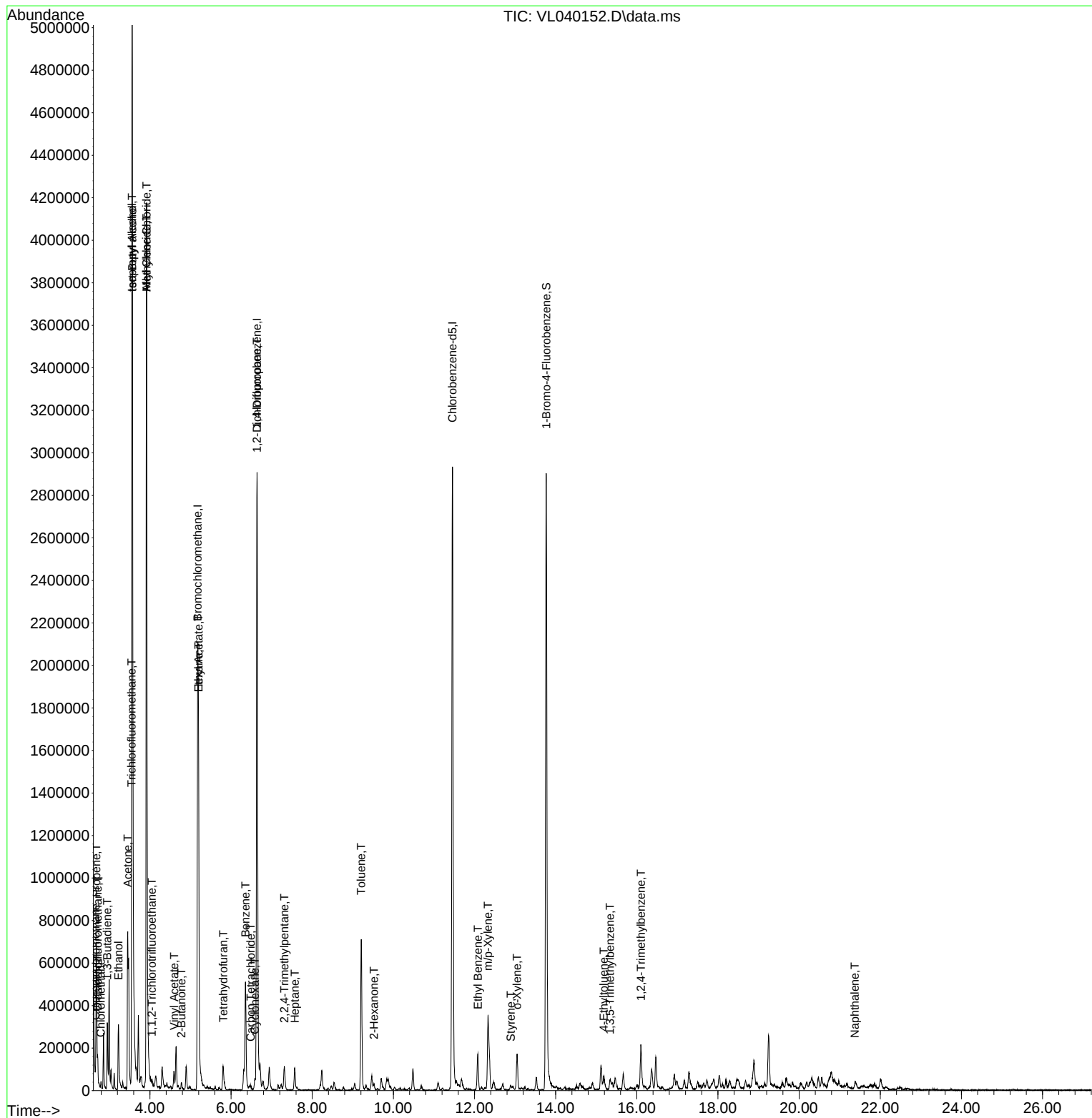
2) Dichlorodifluoromethane	2.713	85	71783	0.477	ppbv	99
3) Chlorodifluoromethane	2.661	51	34056	0.331	ppbv	92
4) Chloromethane	2.793	50	25096	0.394	ppbv	96
9) Propene	2.677	41	261091	6.099	ppbv	97
10) Heptane	7.568	43	35237	0.357	ppbv	89
11) Trichlorofluoromethane	3.546	101	31495	0.210	ppbv	93
12) 1,1,2-Trichlorotrifluo...	4.050	101	7230	0.064	ppbv	93
13) Ethanol	3.224	45	315200	79.990	ppbv	99
15) Acetone	3.452	43	856320	8.311	ppbv	94
16) 1,3-Butadiene	2.951	39	93590	1.948	ppbv #	29
17) tert-Butyl alcohol	3.565	59	246128	2.565	ppbv #	94
19) Isopropyl Alcohol	3.562	45	6216969	123.325	ppbv #	94
20) Methylene Chloride	3.918	84	1481412	32.590	ppbv	97
21) Allyl Chloride	3.918	41	55506	0.839	ppbv #	17
23) Vinyl Acetate	4.600	43	13515	0.405	ppbv #	1
25) Ethyl Acetate	5.198	43	359341	1.980	ppbv #	76
26) Hexane	5.198	57	511847	6.444	ppbv #	37
30) Cyclohexane	6.584	84	5599	0.089	ppbv #	1
34) 2-Butanone	4.777	43	19776	0.189	ppbv #	55
35) Carbon Tetrachloride	6.484	117	5335	0.043	ppbv #	69
36) Benzene	6.356	78	409584	2.500	ppbv	99
39) 1,2-Dichloropropane	6.635	63	546627	8.531	ppbv #	22
41) Tetrahydrofuran	5.806	42	12540	0.208	ppbv #	36
44) 2,2,4-Trimethylpentane	7.314	57	80139	0.294	ppbv #	76
51) 2-Hexanone	9.520	43	5053	0.040	ppbv #	30
53) Toluene	9.208	91	540154	3.092	ppbv	99
58) Ethyl Benzene	12.082	91	143842	0.676	ppbv	98
59) m/p-Xylene	12.333	91	359002	1.877	ppbv	96
60) o-Xylene	13.050	91	128054	0.705	ppbv	99
61) Styrene	12.896	104	3254	0.034	ppbv #	1
72) 4-Ethyltoluene	15.182	105	41310	0.205	ppbv #	92
73) 1,3,5-Trimethylbenzene	15.342	105	20925	0.115	ppbv #	79
74) 1,2,4-Trimethylbenzene	16.101	105	152327	0.758	ppbv #	67
79) Naphthalene	21.374	128	8381	0.073	ppbv #	88

(#) = 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
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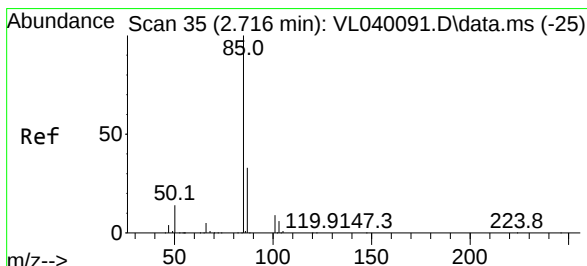
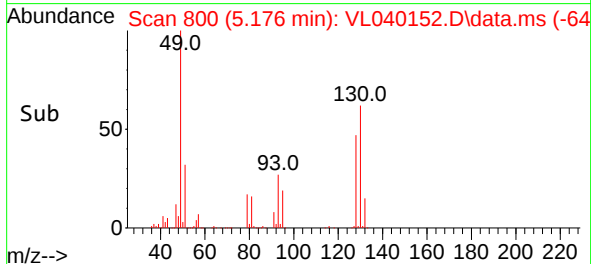
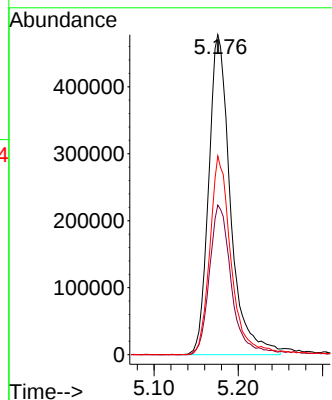
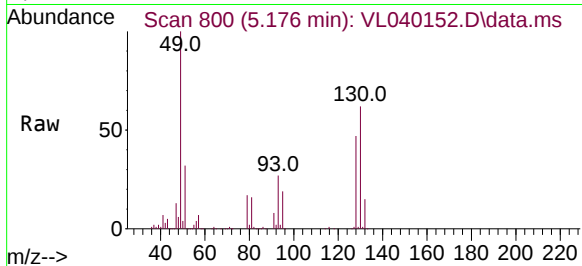




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.176 min Scan# 80
Delta R.T. -0.003 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

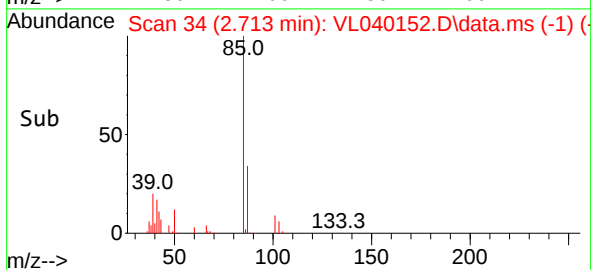
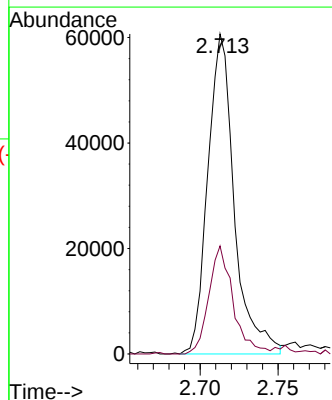
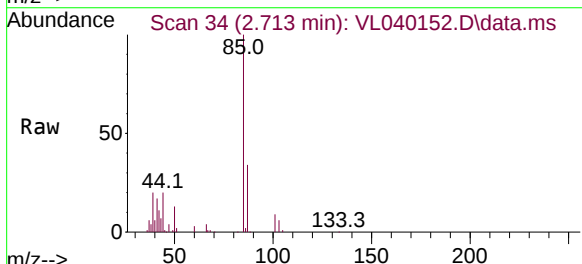
Instrument :
MSVOA_L
ClientSampleId :

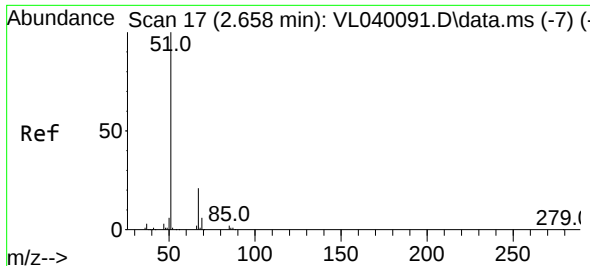
Tgt Ion: 49 Resp: 859096
Ion Ratio Lower Upper
49 100
128 48.1 23.6 71.0
130 62.2 29.8 89.3



#2
Dichlorodifluoromethane
Concen: 0.477 ppbv
RT: 2.713 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

Tgt Ion: 85 Resp: 71783
Ion Ratio Lower Upper
85 100
87 33.7 26.5 39.7

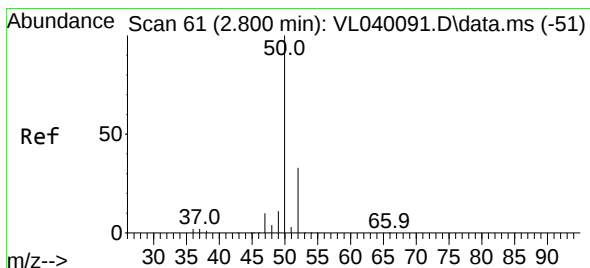
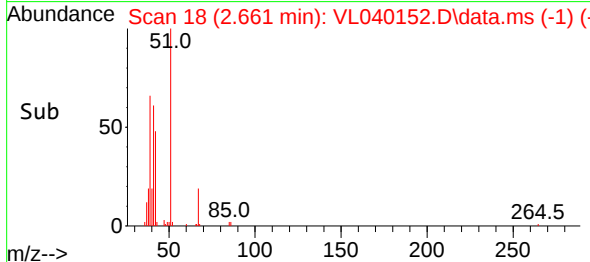
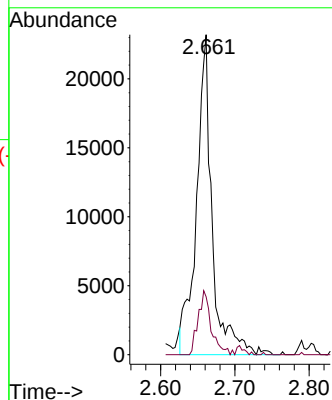
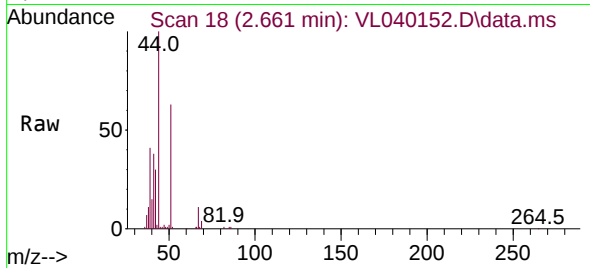




#3
Chlorodifluoromethane
Concen: 0.331 ppbv
RT: 2.661 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

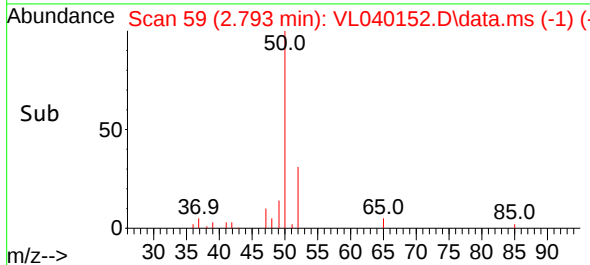
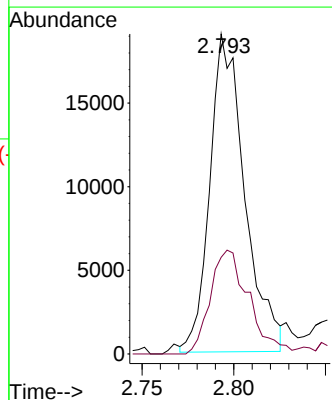
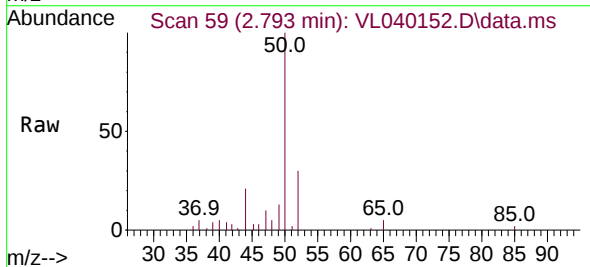
Instrument :
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ClientSampleId :

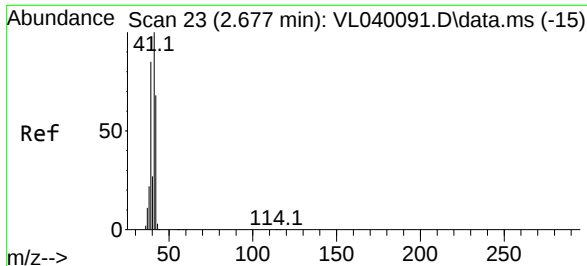
Tgt Ion: 51 Resp: 34056
Ion Ratio Lower Upper
51 100
67 16.6 16.4 24.6



#4
Chloromethane
Concen: 0.394 ppbv
RT: 2.793 min Scan# 59
Delta R.T. 0.000 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

Tgt Ion: 50 Resp: 25096
Ion Ratio Lower Upper
50 100
52 30.9 26.5 39.7

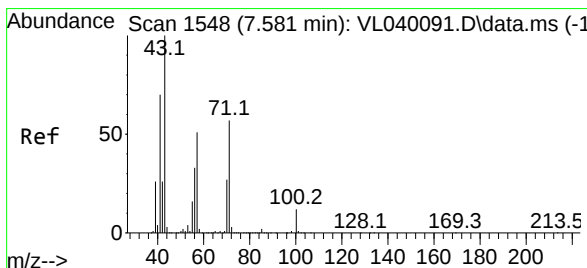
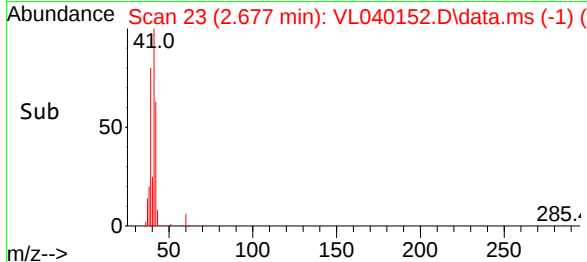
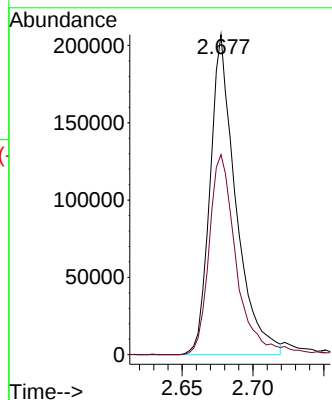
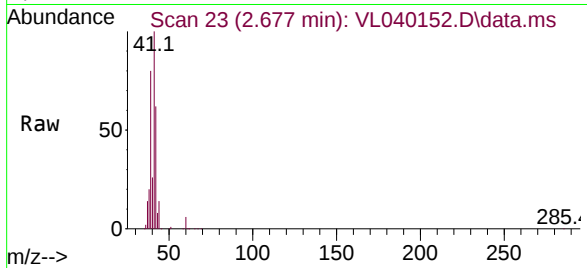




#9
 Propene
 Concen: 6.099 ppbv
 RT: 2.677 min Scan# 21
 Delta R.T. 0.003 min
 Lab File: VL040152.D
 Acq: 6 Feb 2023 19:03

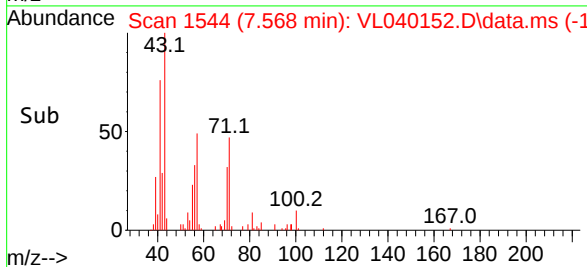
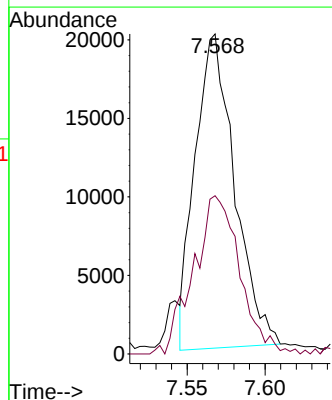
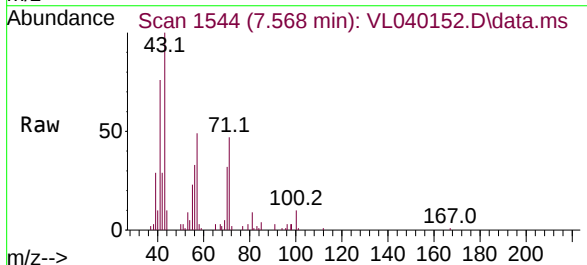
Instrument :
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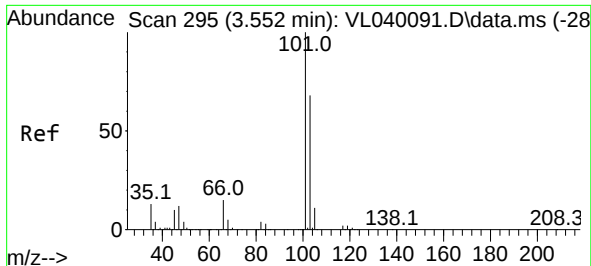
Tgt Ion: 41 Resp: 261091
 Ion Ratio Lower Upper
 41 100
 42 67.4 55.6 83.4



#10
 Heptane
 Concen: 0.357 ppbv
 RT: 7.568 min Scan# 1544
 Delta R.T. 0.000 min
 Lab File: VL040152.D
 Acq: 6 Feb 2023 19:03

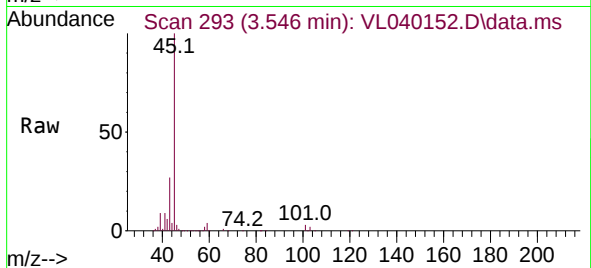
Tgt Ion: 43 Resp: 35237
 Ion Ratio Lower Upper
 43 100
 57 59.0 40.9 61.3



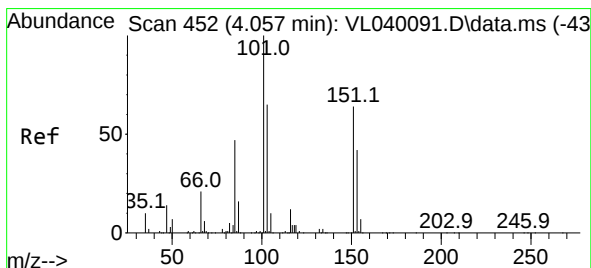
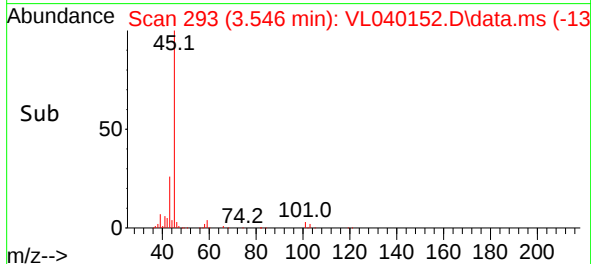
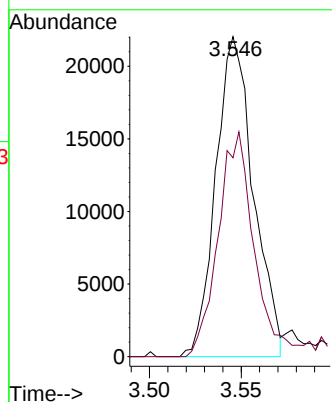


#11
 Trichlorofluoromethane
 Concen: 0.210 ppbv
 RT: 3.546 min Scan# 295
 Delta R.T. 0.000 min
 Lab File: VL040152.D
 Acq: 6 Feb 2023 19:03

Instrument :
 MSVOA_L
 ClientSampleId :

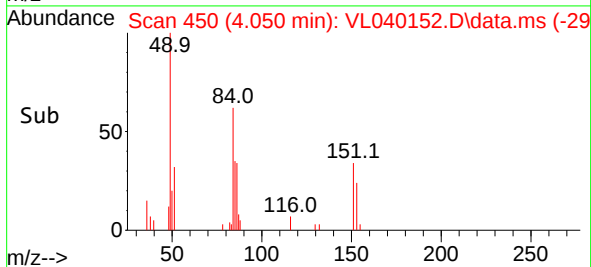
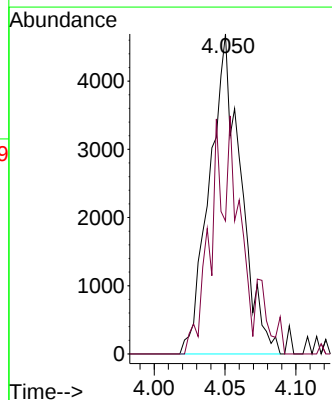
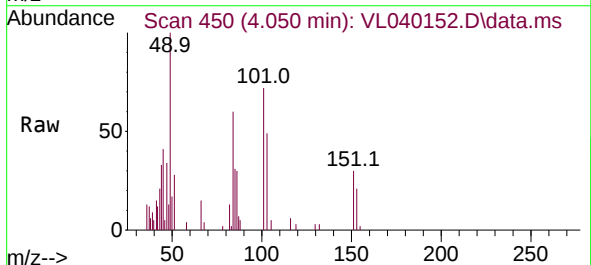


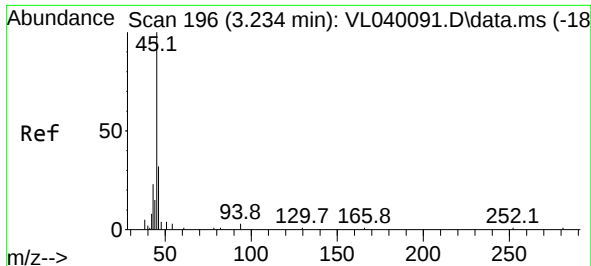
Tgt Ion:101 Resp: 31495
 Ion Ratio Lower Upper
 101 100
 103 62.1 54.0 81.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.064 ppbv
 RT: 4.050 min Scan# 450
 Delta R.T. 0.003 min
 Lab File: VL040152.D
 Acq: 6 Feb 2023 19:03

Tgt Ion:101 Resp: 7230
 Ion Ratio Lower Upper
 101 100
 151 72.4 53.2 79.8

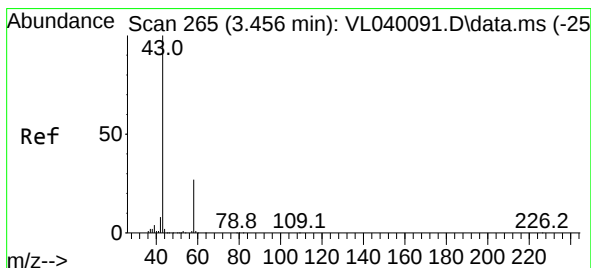
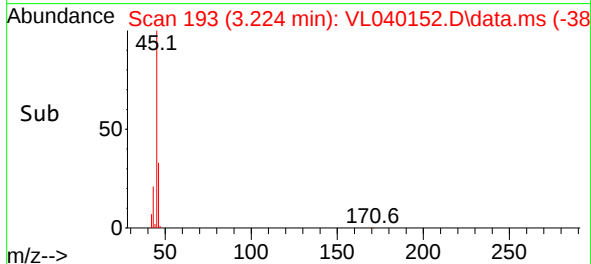
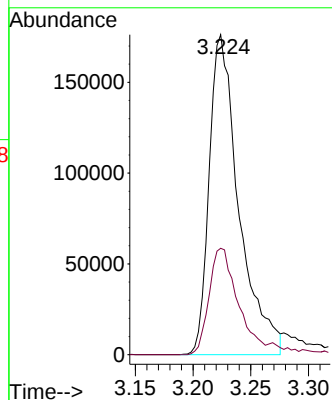
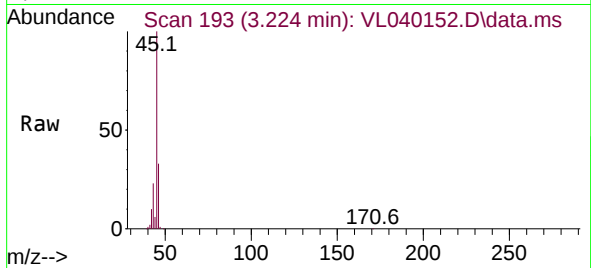




#13
Ethanol
Concen: 79.990 ppbv
RT: 3.224 min Scan# 196
Delta R.T. -0.003 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

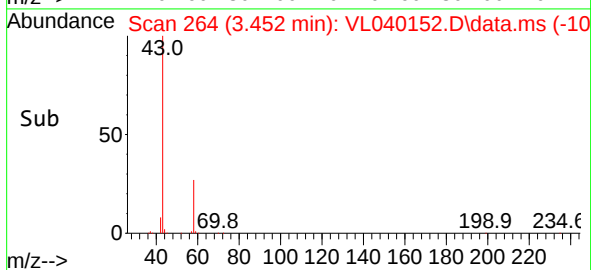
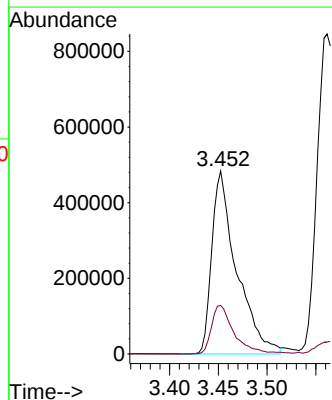
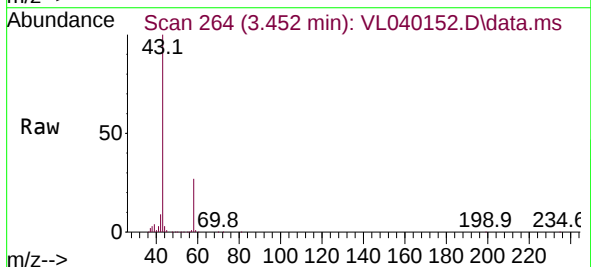
Instrument :
MSVOA_L
ClientSampleId :

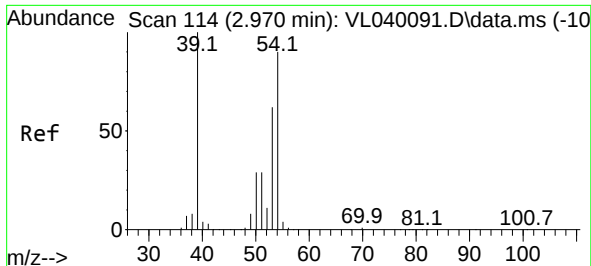
Tgt Ion: 45 Resp: 315200
Ion Ratio Lower Upper
45 100
46 36.2 14.8 59.2



#15
Acetone
Concen: 8.311 ppbv
RT: 3.452 min Scan# 264
Delta R.T. 0.003 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

Tgt Ion: 43 Resp: 856320
Ion Ratio Lower Upper
43 100
58 24.3 21.8 32.8

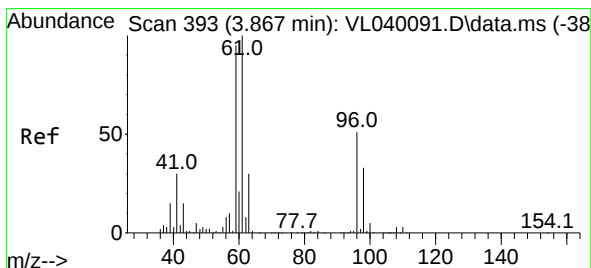
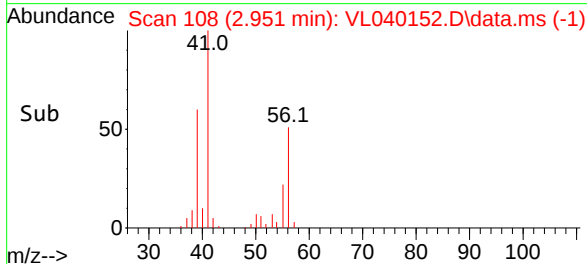
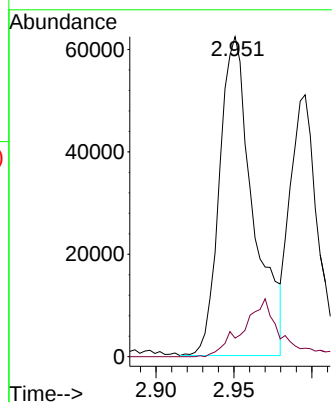
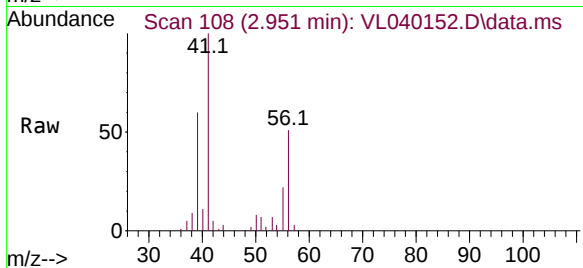




#16
1,3-Butadiene
Concen: 1.948 ppbv
RT: 2.951 min Scan# 10
Delta R.T. -0.016 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

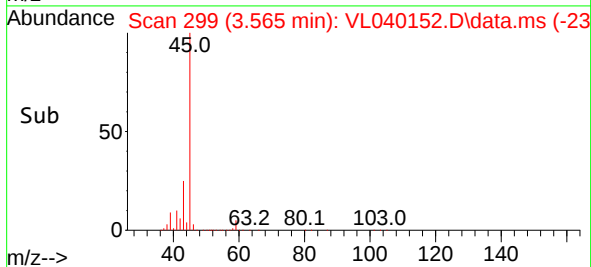
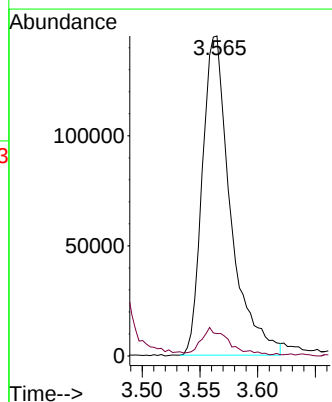
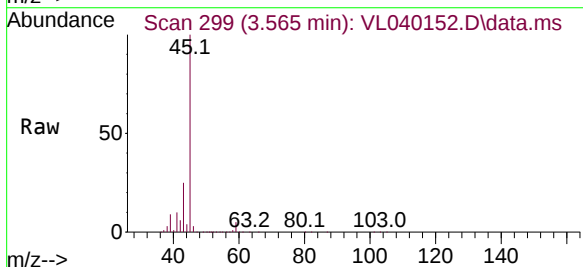
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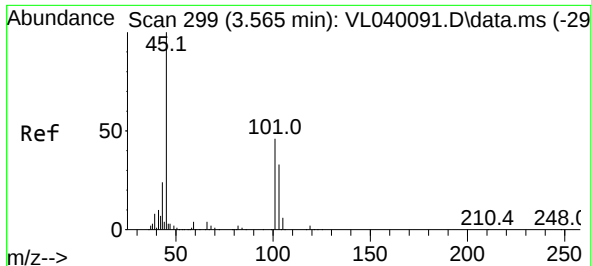
Tgt Ion: 39 Resp: 93590
Ion Ratio Lower Upper
39 100
54 20.5 67.9 101.9#



#17
tert-Butyl alcohol
Concen: 2.565 ppbv
RT: 3.565 min Scan# 299
Delta R.T. -0.296 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

Tgt Ion: 59 Resp: 246128
Ion Ratio Lower Upper
59 100
57 8.3 8.5 12.7#

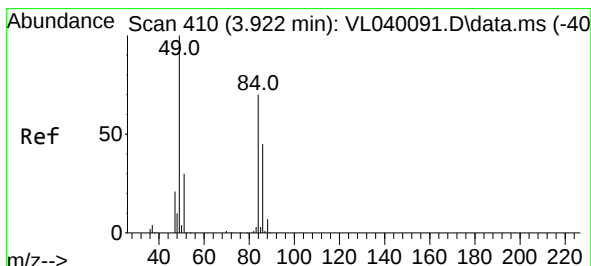
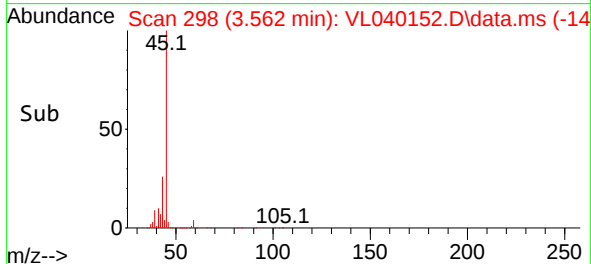
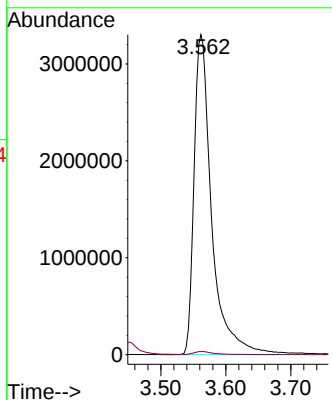
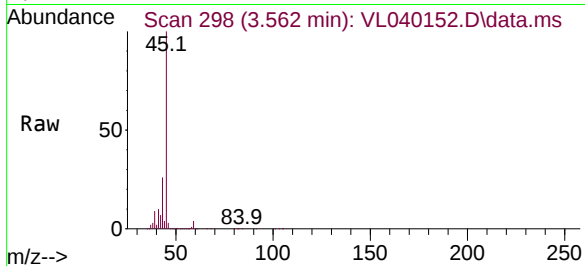




#19
Isopropyl Alcohol
Concen: 123.325 ppbv
RT: 3.562 min Scan# 299
Delta R.T. 0.003 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

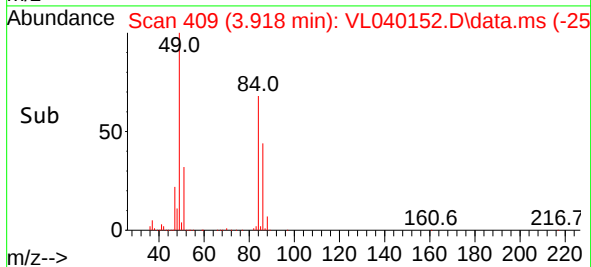
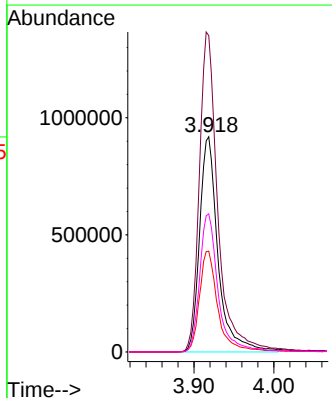
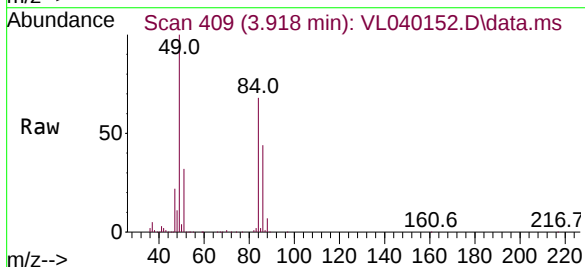
Instrument :
MSVOA_L
ClientSampleId :

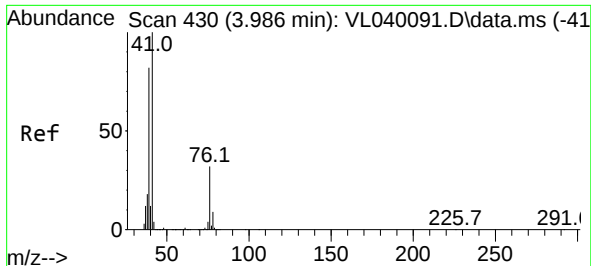
Tgt Ion: 45 Resp: 6216969
Ion Ratio Lower Upper
45 100
58 1.3 2.6 4.0#



#20
Methylene Chloride
Concen: 32.590 ppbv
RT: 3.918 min Scan# 409
Delta R.T. 0.003 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

Tgt Ion: 84 Resp: 1481412
Ion Ratio Lower Upper
84 100
49 147.0 114.6 171.8
51 46.8 34.3 51.5
86 64.2 51.8 77.8





#21

Allyl Chloride

Concen: 0.839 ppbv

RT: 3.918 min Scan# 409

Delta R.T. -0.061 min

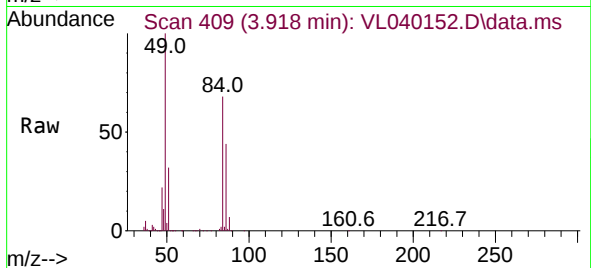
Lab File: VL040152.D

Acq: 6 Feb 2023 19:03

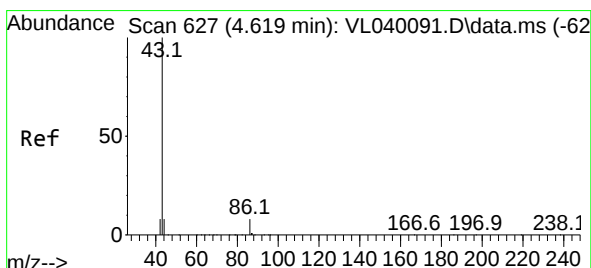
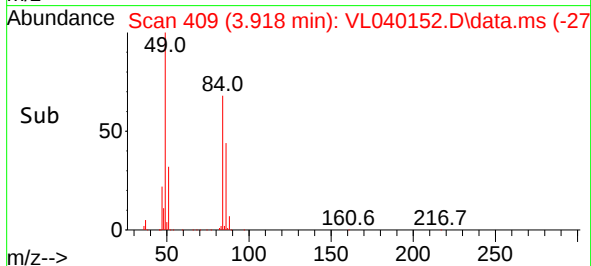
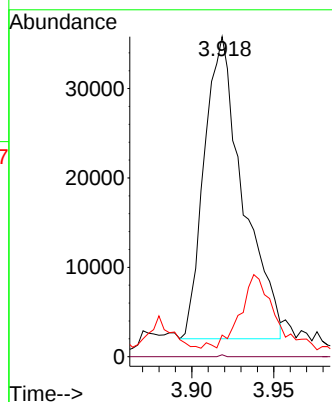
Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:	41	Resp:	55506
Ion Ratio	Lower	Upper	
41	100		
76	0.4	25.9	38.9#
39	0.0	66.8	100.2#



#23

Vinyl Acetate

Concen: 0.405 ppbv

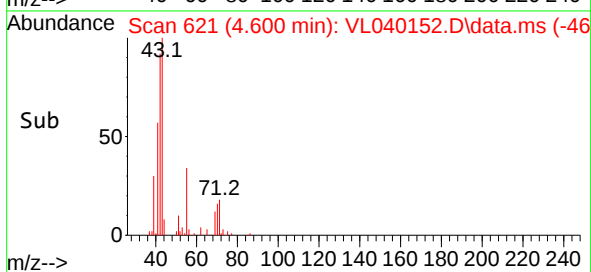
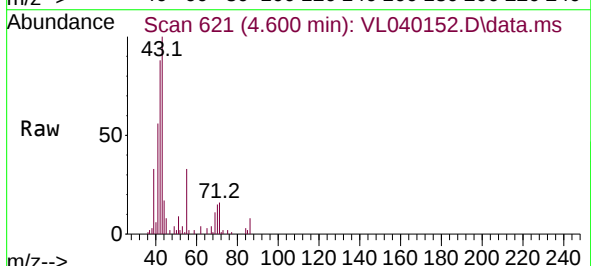
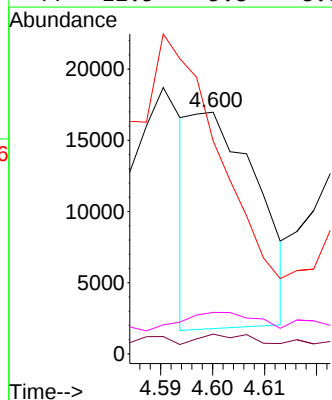
RT: 4.600 min Scan# 621

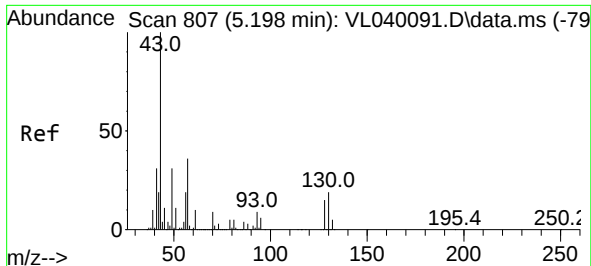
Delta R.T. -0.013 min

Lab File: VL040152.D

Acq: 6 Feb 2023 19:03

Tgt Ion:	43	Resp:	13515
Ion Ratio	Lower	Upper	
43	100		
86	8.0	5.6	8.4
42	106.8	7.7	11.5#
44	12.5	5.8	8.8#

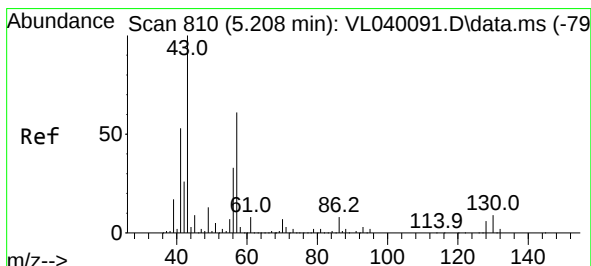
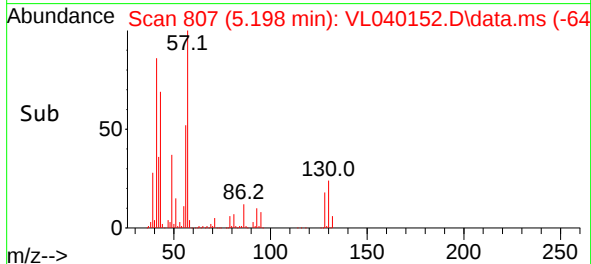
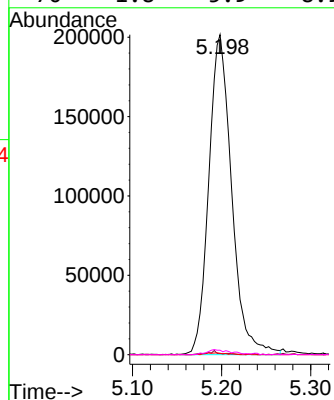
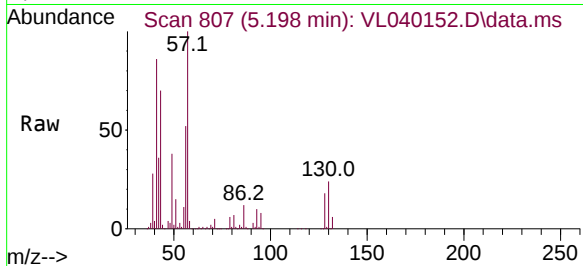




#25
Ethyl Acetate
Concen: 1.980 ppbv
RT: 5.198 min Scan# 807
Delta R.T. 0.010 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

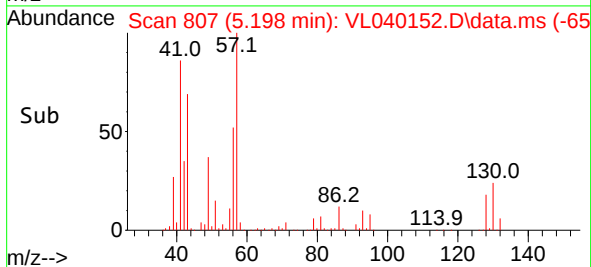
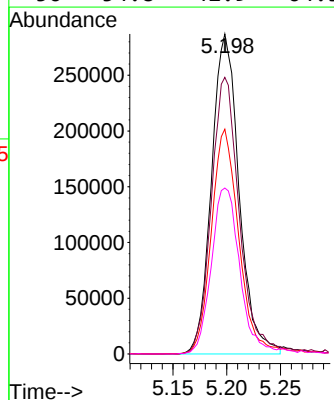
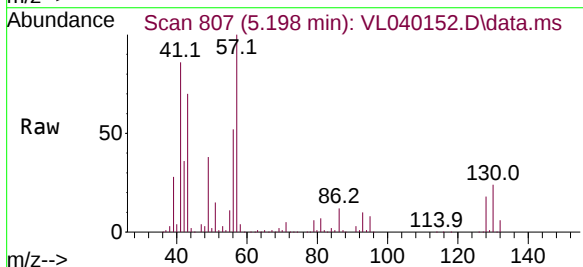
Instrument :
MSVOA_L
ClientSampleId :

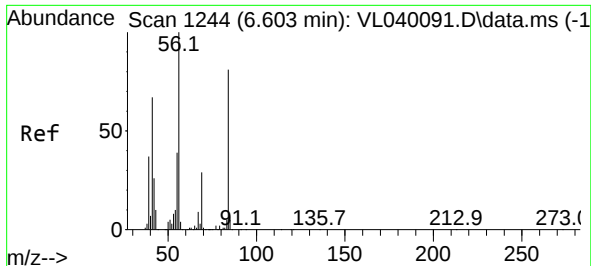
Tgt Ion: 43 Resp: 359341
Ion Ratio Lower Upper
43 100
45 0.7 8.5 12.7#
61 0.5 8.4 12.6#
70 1.8 5.9 8.9#



#26
Hexane
Concen: 6.444 ppbv
RT: 5.198 min Scan# 807
Delta R.T. 0.000 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

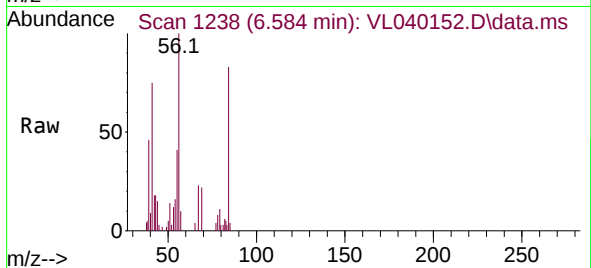
Tgt Ion: 57 Resp: 511847
Ion Ratio Lower Upper
57 100
41 89.6 72.2 108.4
43 71.1 192.1 288.1#
56 54.8 42.9 64.3



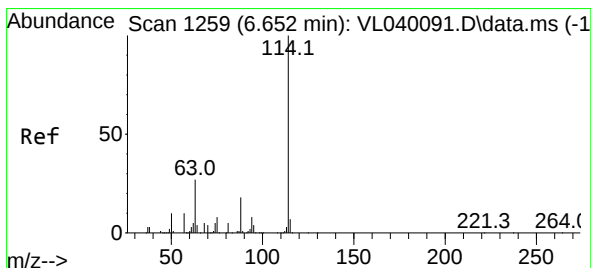
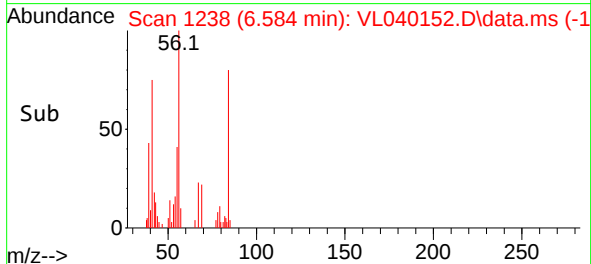
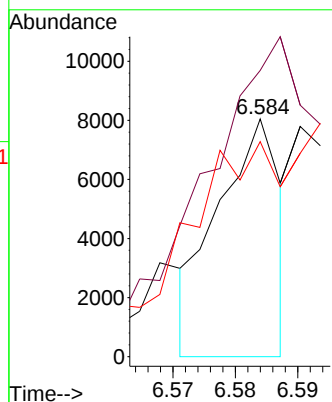


#30
Cyclohexane
Concen: 0.089 ppbv
RT: 6.584 min Scan# 1238
Delta R.T. -0.006 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

Instrument :
MSVOA_L
ClientSampleId :

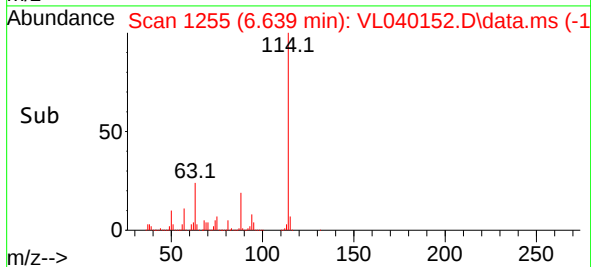
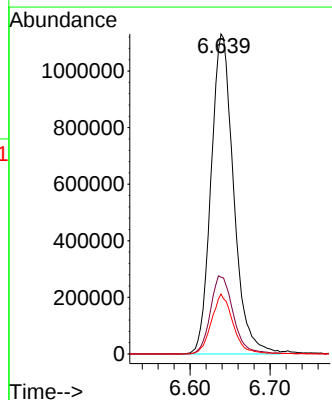
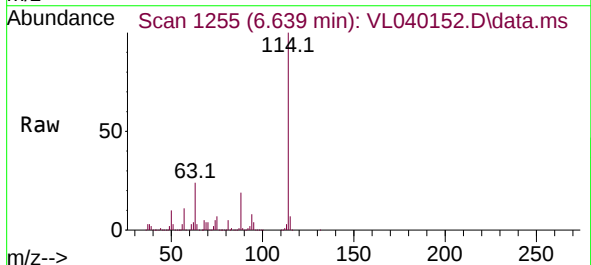


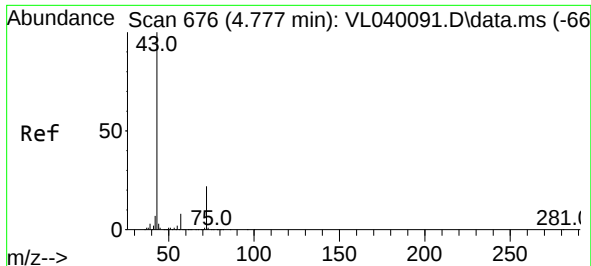
Tgt Ion: 84 Resp: 5599
Ion Ratio Lower Upper
84 100
56 0.0 111.5 167.3#
41 0.0 71.4 107.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.639 min Scan# 1255
Delta R.T. -0.003 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

Tgt Ion: 114 Resp: 2213528
Ion Ratio Lower Upper
114 100
63 25.0 21.8 32.8
88 18.1 14.8 22.2

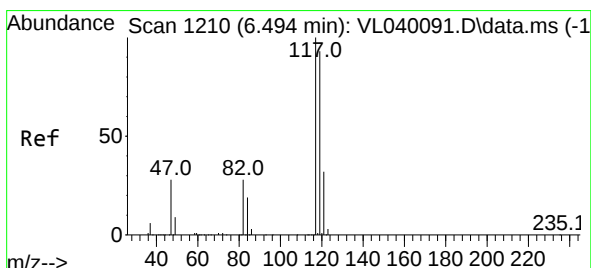
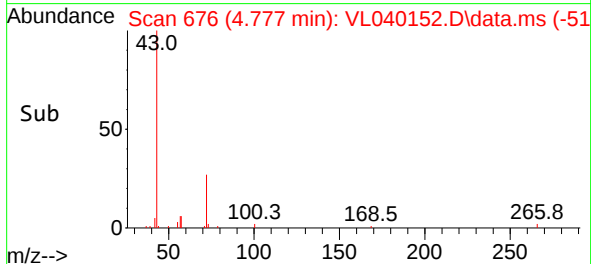
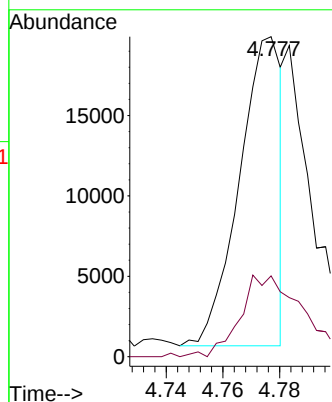
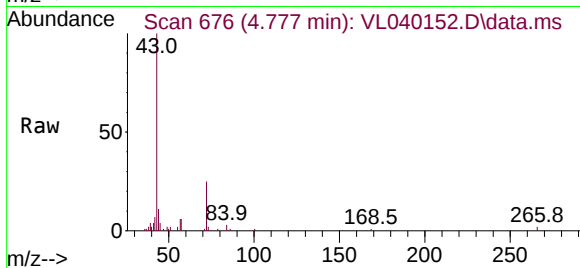




#34
2-Butanone
Concen: 0.189 ppbv
RT: 4.777 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

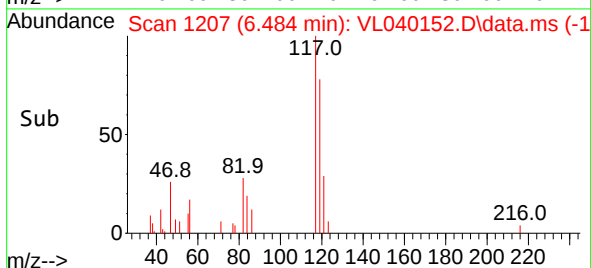
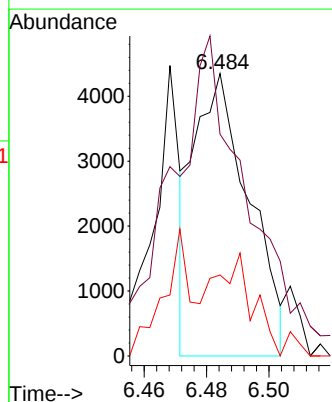
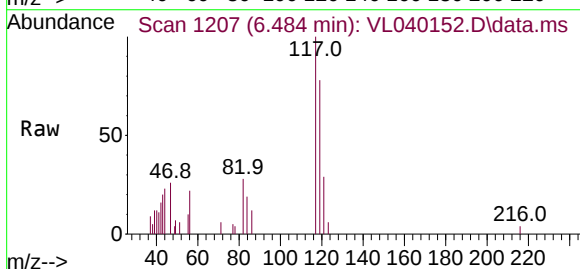
Instrument :
MSVOA_L
ClientSampleId :

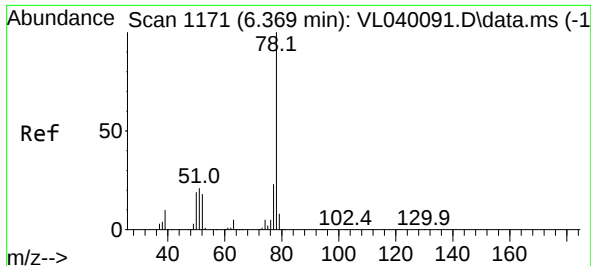
Tgt Ion: 43 Resp: 19776
Ion Ratio Lower Upper
43 100
72 44.7 18.4 27.6#



#35
Carbon Tetrachloride
Concen: 0.043 ppbv
RT: 6.484 min Scan# 1207
Delta R.T. 0.003 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

Tgt Ion: 117 Resp: 5335
Ion Ratio Lower Upper
117 100
119 54.7 74.5 111.7#
121 34.9 25.4 38.0





#36

Benzene

Concen: 2.500 ppbv

RT: 6.356 min Scan# 1167

Delta R.T. -0.003 min

Lab File: VL040152.D

Acq: 6 Feb 2023 19:03

Instrument :

MSVOA_L

ClientSampleId :

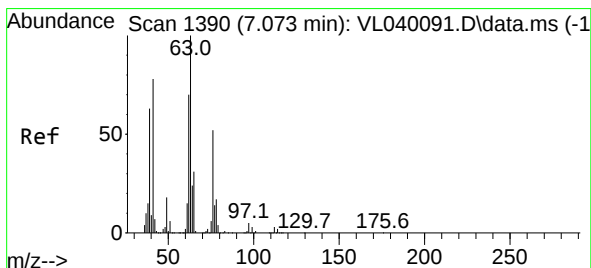
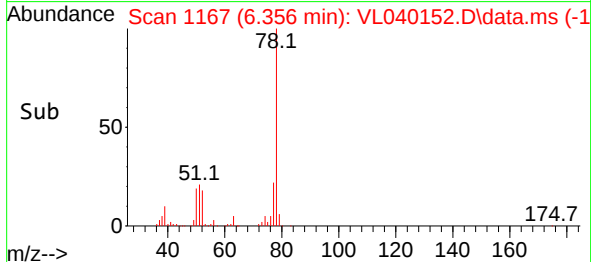
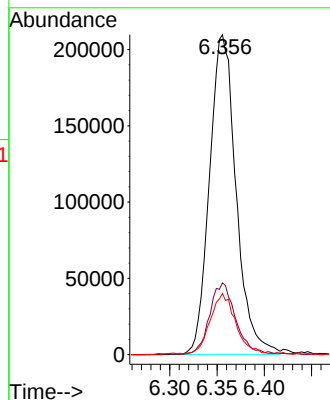
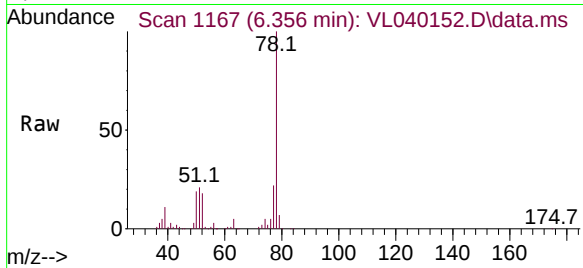
Tgt Ion: 78 Resp: 409584

Ion Ratio Lower Upper

78 100

77 22.3 18.1 27.1

50 18.6 15.6 23.4



#39

1,2-Dichloropropane

Concen: 8.531 ppbv

RT: 6.635 min Scan# 1254

Delta R.T. -0.428 min

Lab File: VL040152.D

Acq: 6 Feb 2023 19:03

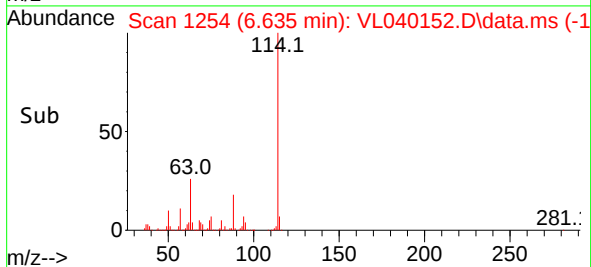
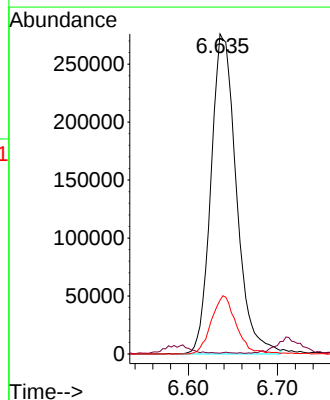
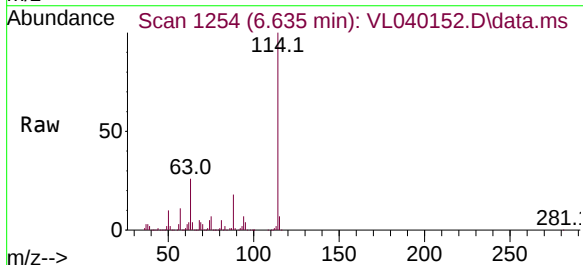
Tgt Ion: 63 Resp: 546627

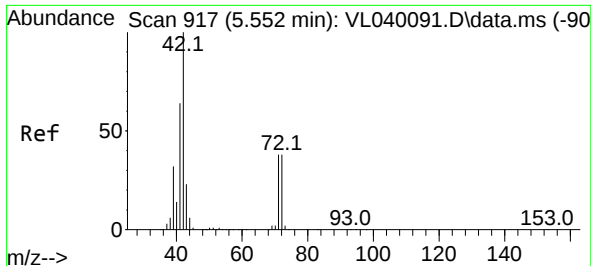
Ion Ratio Lower Upper

63 100

41 0.0 62.2 93.4#

62 16.8 55.8 83.8#

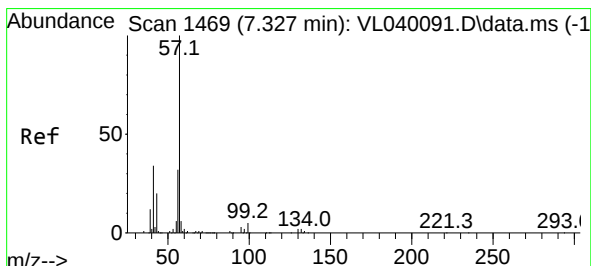
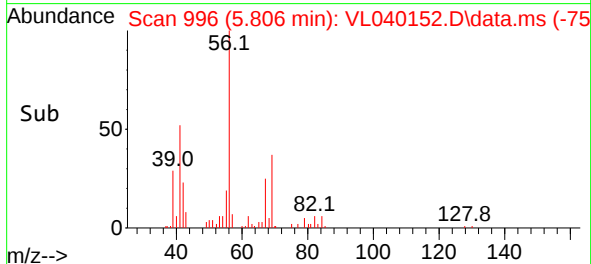
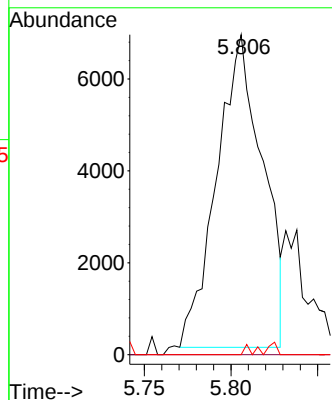
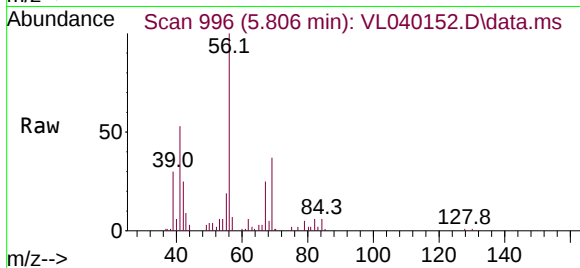




#41
Tetrahydrofuran
Concen: 0.208 ppbv
RT: 5.806 min Scan# 917
Delta R.T. 0.264 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

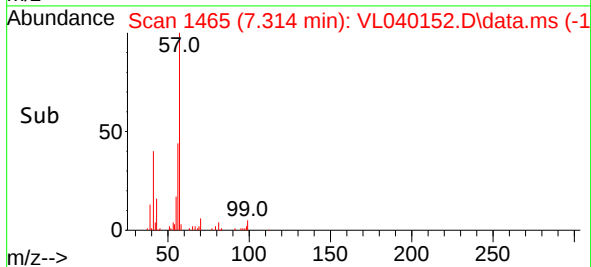
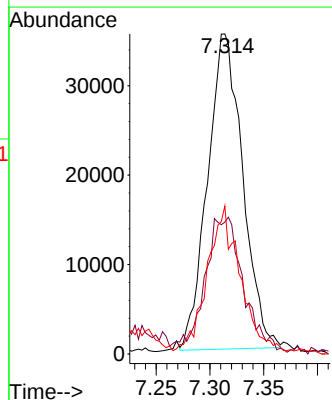
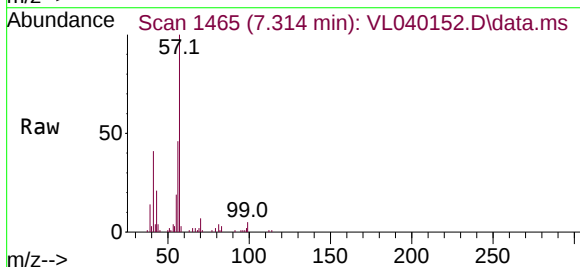
Instrument :
MSVOA_L
ClientSampleId :

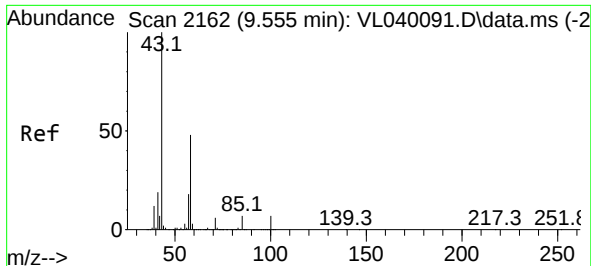
Tgt Ion: 42 Resp: 12540
Ion Ratio Lower Upper
42 100
72 0.0 31.9 47.9#
71 0.0 31.4 47.2#



#44
2,2,4-Trimethylpentane
Concen: 0.294 ppbv
RT: 7.314 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

Tgt Ion: 57 Resp: 80139
Ion Ratio Lower Upper
57 100
41 45.8 27.1 40.7#
56 46.0 25.0 37.4#

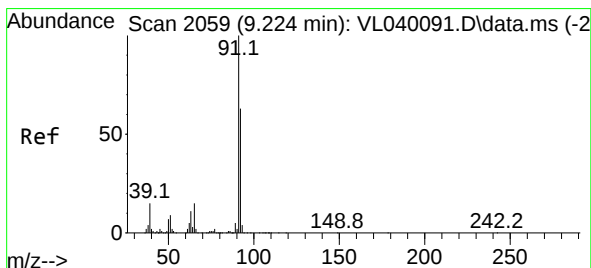
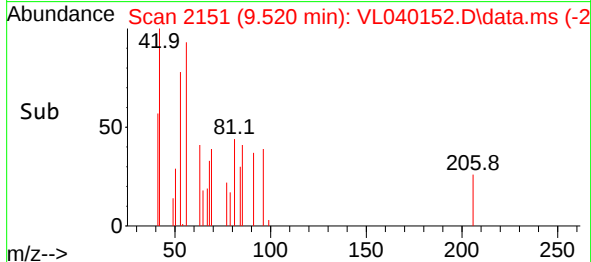
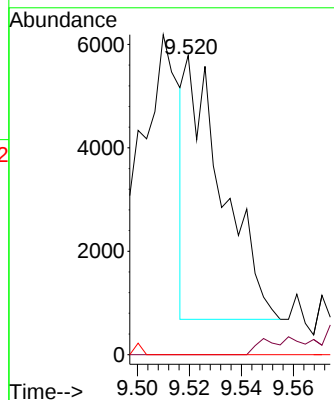
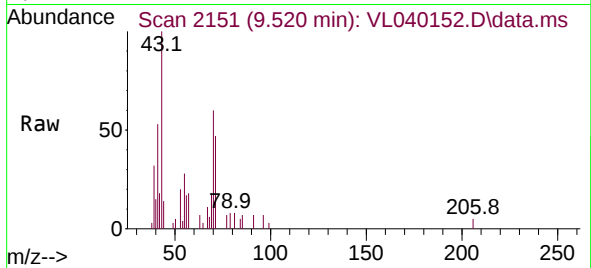




#51
2-Hexanone
Concen: 0.040 ppbv
RT: 9.520 min Scan# 2162
Delta R.T. -0.022 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

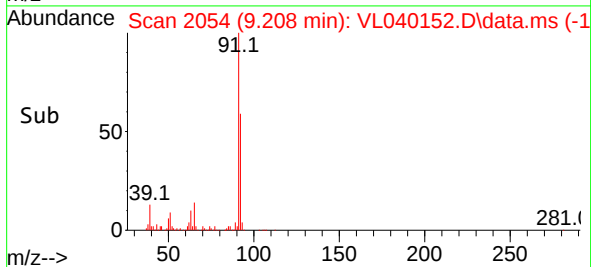
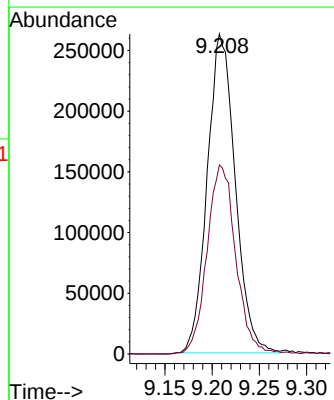
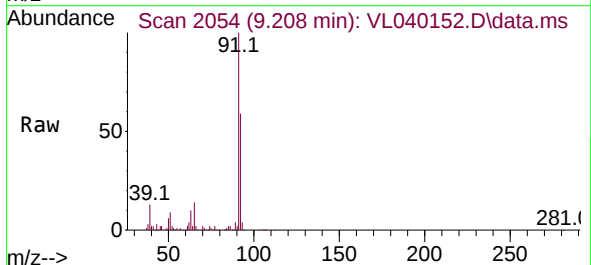
Instrument :
MSVOA_L
ClientSampleId :

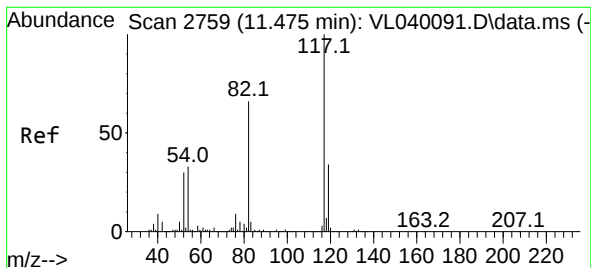
Tgt Ion: 43 Resp: 5053
Ion Ratio Lower Upper
43 100
58 0.0 37.5 56.3#
98 0.0 0.4 0.6#



#53
Toluene
Concen: 3.092 ppbv
RT: 9.208 min Scan# 2054
Delta R.T. -0.003 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

Tgt Ion: 91 Resp: 540154
Ion Ratio Lower Upper
91 100
92 61.0 48.3 72.5





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.455 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL040152.D

Acq: 6 Feb 2023 19:03

Instrument :

MSVOA_L

ClientSampleId :

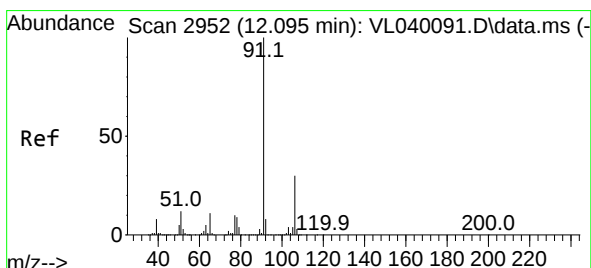
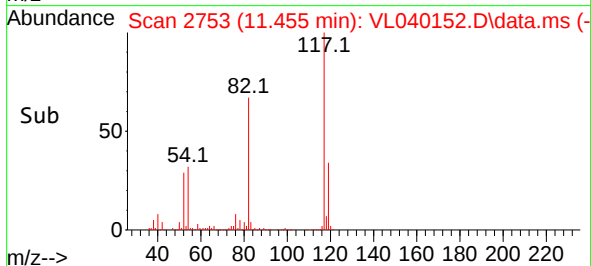
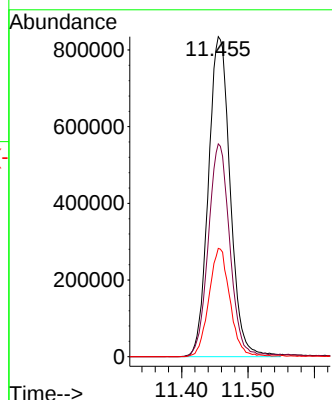
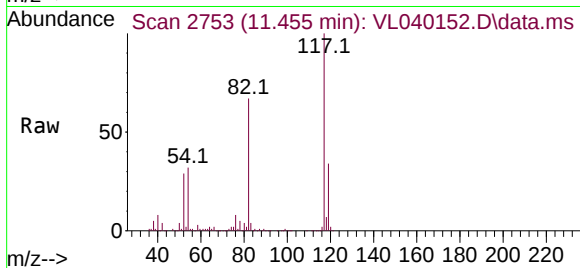
Tgt Ion:117 Resp: 1906352

Ion Ratio Lower Upper

117 100

82 65.9 54.4 81.6

119 32.9 26.8 40.2



#58

Ethyl Benzene

Concen: 0.676 ppbv

RT: 12.082 min Scan# 2948

Delta R.T. 0.000 min

Lab File: VL040152.D

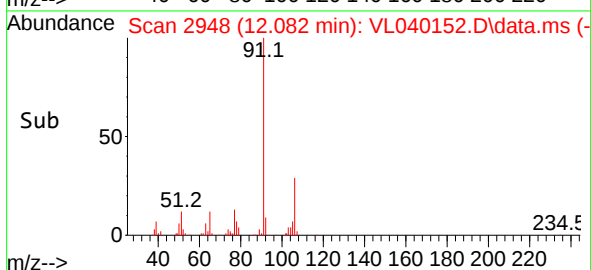
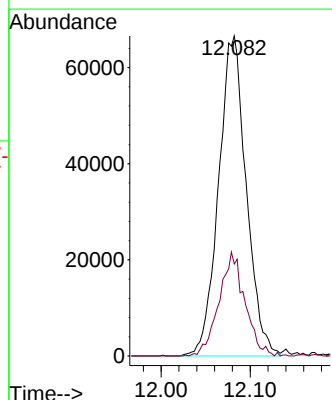
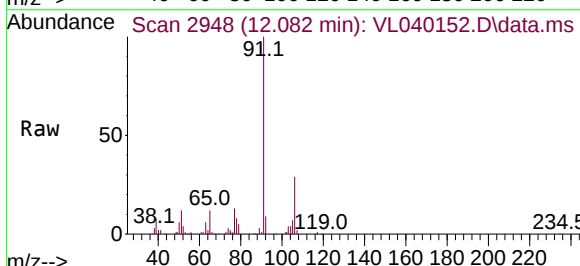
Acq: 6 Feb 2023 19:03

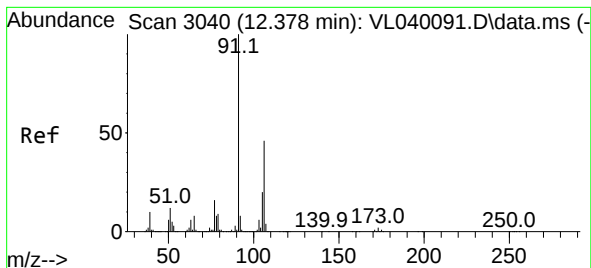
Tgt Ion: 91 Resp: 143842

Ion Ratio Lower Upper

91 100

106 28.8 23.7 35.5





#59

m/p-Xylene

Concen: 1.877 ppbv

RT: 12.333 min Scan# 3040

Delta R.T. -0.032 min

Lab File: VL040152.D

Acq: 6 Feb 2023 19:03

Instrument :

MSVOA_L

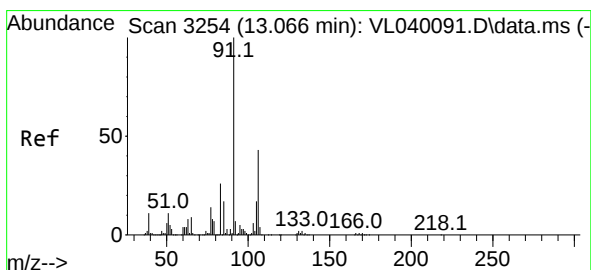
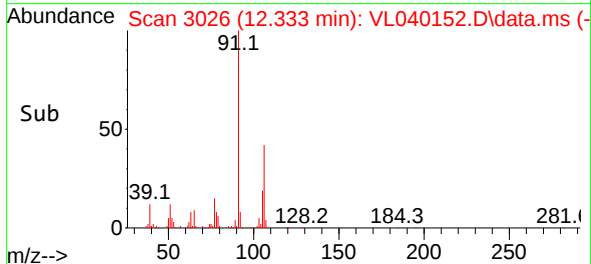
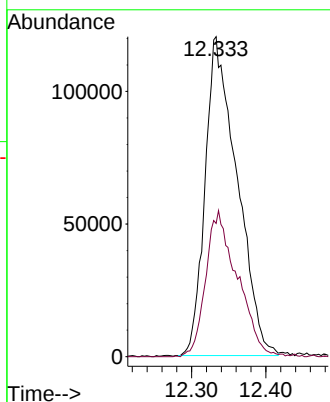
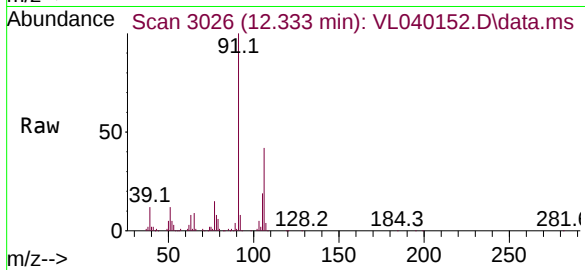
ClientSampleId :

Tgt Ion: 91 Resp: 359002

Ion Ratio Lower Upper

91 100

106 45.7 34.2 51.4



#60

o-Xylene

Concen: 0.705 ppbv

RT: 13.050 min Scan# 3249

Delta R.T. 0.000 min

Lab File: VL040152.D

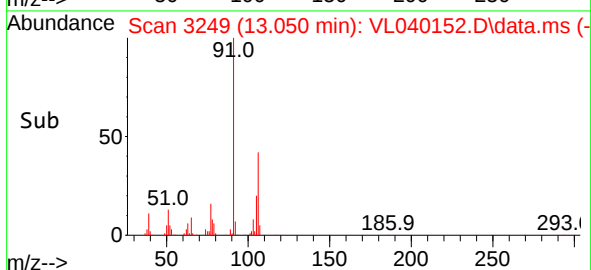
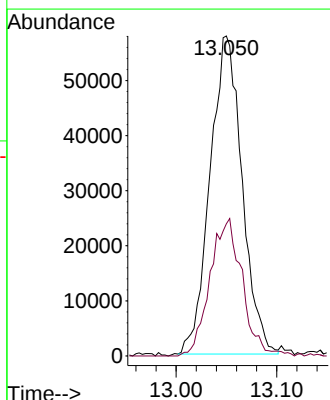
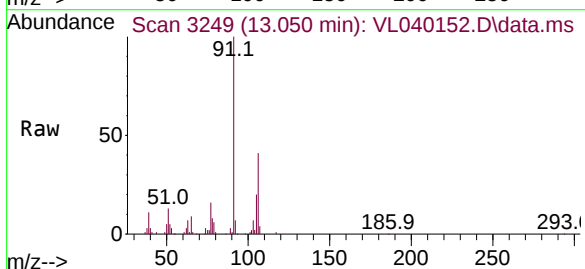
Acq: 6 Feb 2023 19:03

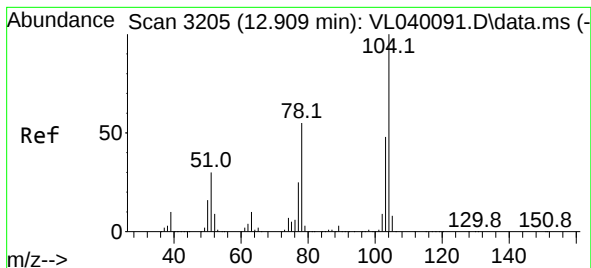
Tgt Ion: 91 Resp: 128054

Ion Ratio Lower Upper

91 100

106 43.8 21.6 64.8





#61

Styrene

Concen: 0.034 ppbv

RT: 12.896 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL040152.D

Acq: 6 Feb 2023 19:03

Instrument :

MSVOA_L

ClientSampleId :

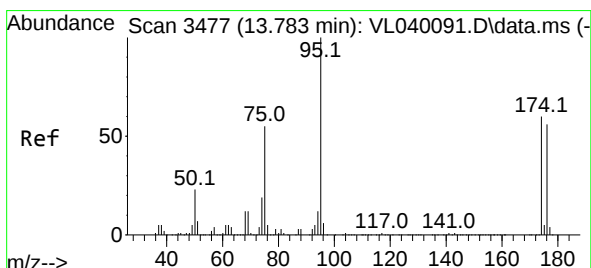
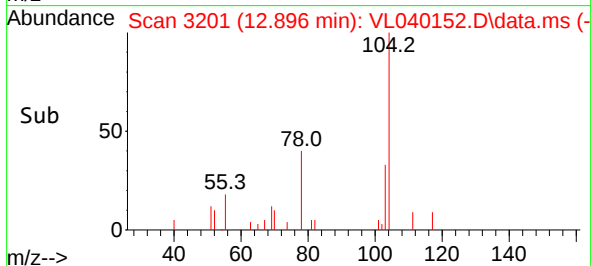
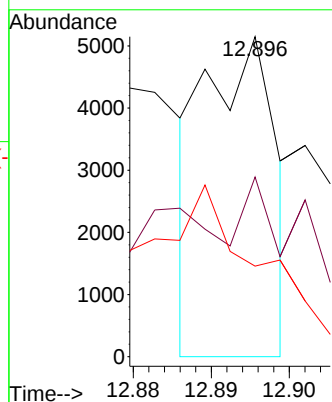
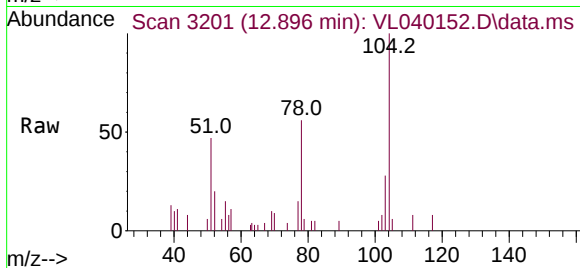
Tgt Ion:104 Resp: 3254

Ion Ratio Lower Upper

104 100

78 197.4 44.0 66.0#

103 138.8 37.8 56.6#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.309 ppbv

RT: 13.767 min Scan# 3472

Delta R.T. -0.003 min

Lab File: VL040152.D

Acq: 6 Feb 2023 19:03

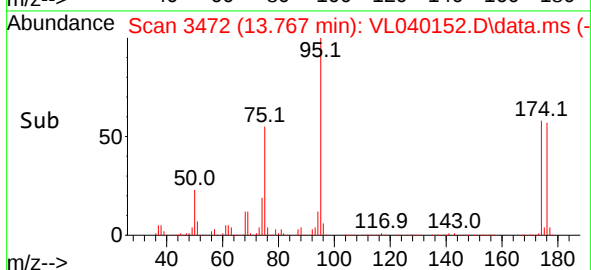
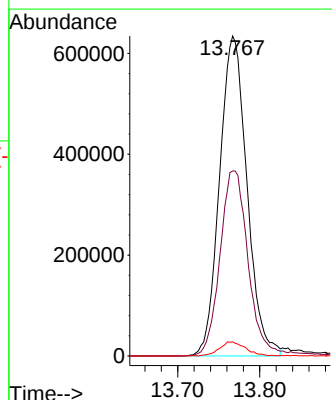
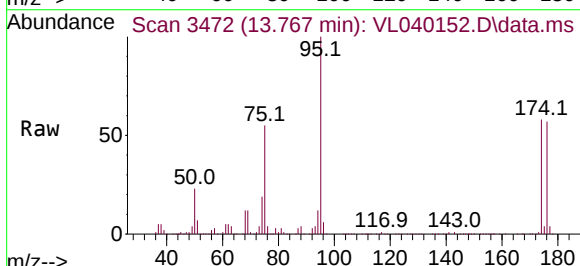
Tgt Ion: 95 Resp: 1474873

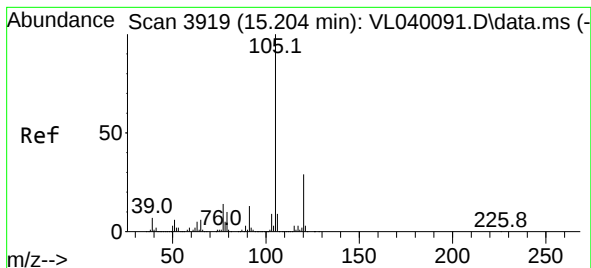
Ion Ratio Lower Upper

95 100

174 60.1 47.7 71.5

175 4.4 3.4 5.2

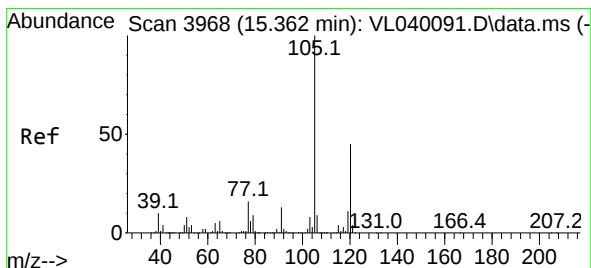
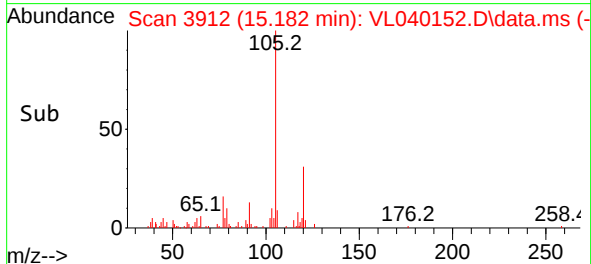
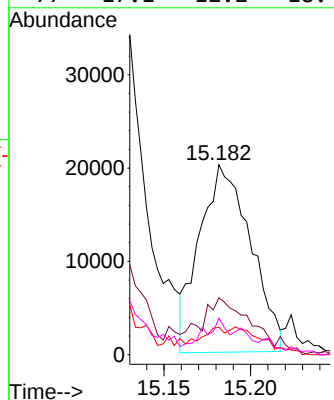
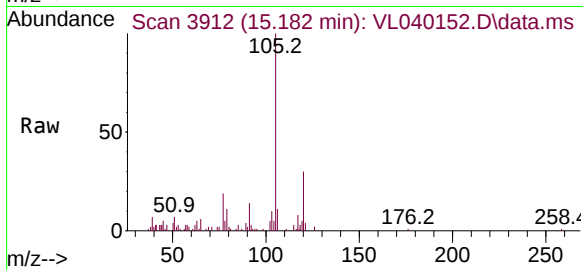




#72
4-Ethyltoluene
Concen: 0.205 ppbv
RT: 15.182 min Scan# 3919
Delta R.T. -0.006 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

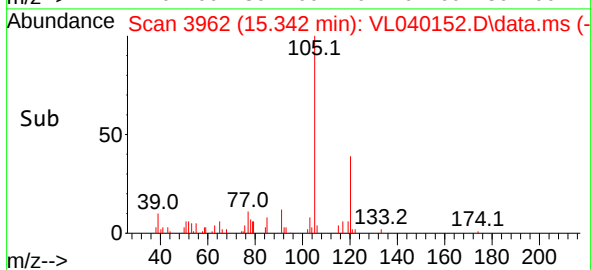
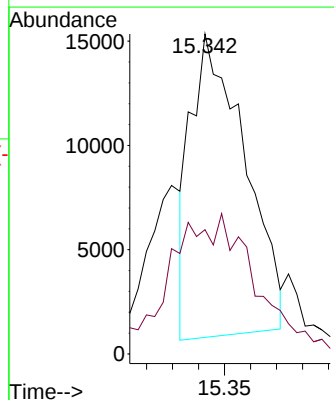
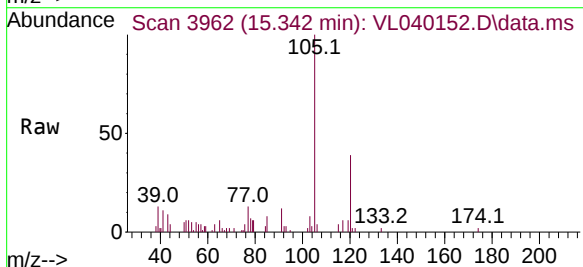
Instrument :
MSVOA_L
ClientSampleId :

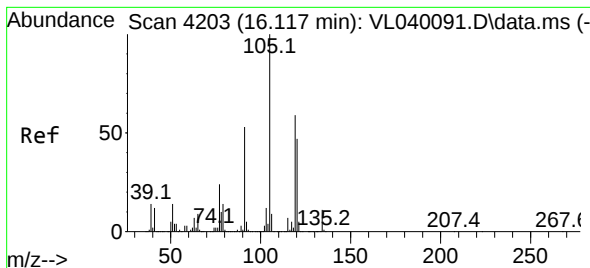
Tgt Ion:105	Resp:	41310
Ion Ratio	Lower	Upper
105	100	
120	33.5	23.1 34.7
91	18.4	11.2 16.8#
77	17.1	12.2 18.4



#73
1,3,5-Trimethylbenzene
Concen: 0.115 ppbv
RT: 15.342 min Scan# 3962
Delta R.T. -0.006 min
Lab File: VL040152.D
Acq: 6 Feb 2023 19:03

Tgt Ion:105	Resp:	20925
Ion Ratio	Lower	Upper
105	100	
120	31.6	36.2 54.4#





#74

1,2,4-Trimethylbenzene

Concen: 0.758 ppbv

RT: 16.101 min Scan# 41

Delta R.T. 0.000 min

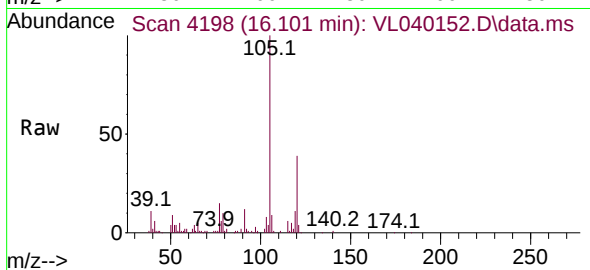
Lab File: VL040152.D

Acq: 6 Feb 2023 19:03

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:105 Resp: 152327

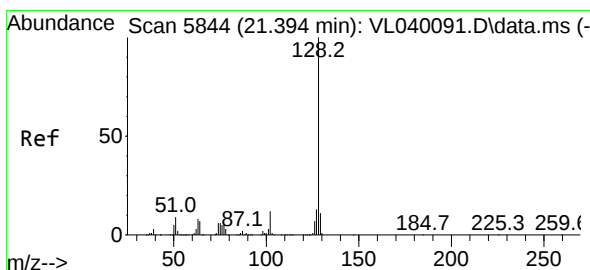
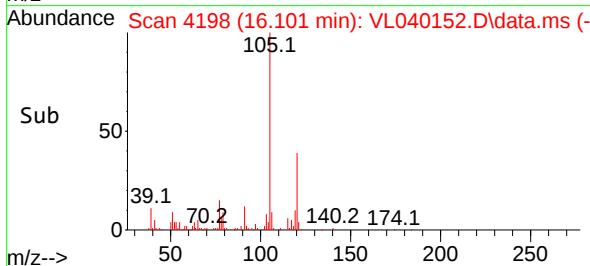
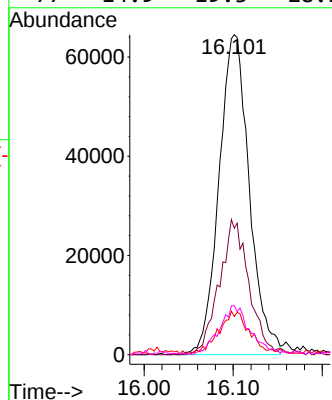
Ion Ratio Lower Upper

105 100

120 39.5 38.0 57.0

91 11.7 42.1 63.1#

77 14.9 19.3 28.9#



#79

Naphthalene

Concen: 0.073 ppbv

RT: 21.374 min Scan# 5838

Delta R.T. -0.003 min

Lab File: VL040152.D

Acq: 6 Feb 2023 19:03

Tgt Ion:128 Resp: 8381

Ion Ratio Lower Upper

128 100

127 8.6 10.3 15.5#

129 5.9 8.8 13.2#

