

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020623\
 Data File : VL040144.D
 Acq On : 6 Feb 2023 13:36
 Operator : SY/MD
 Sample : 01438-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 07 05:54:56 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)

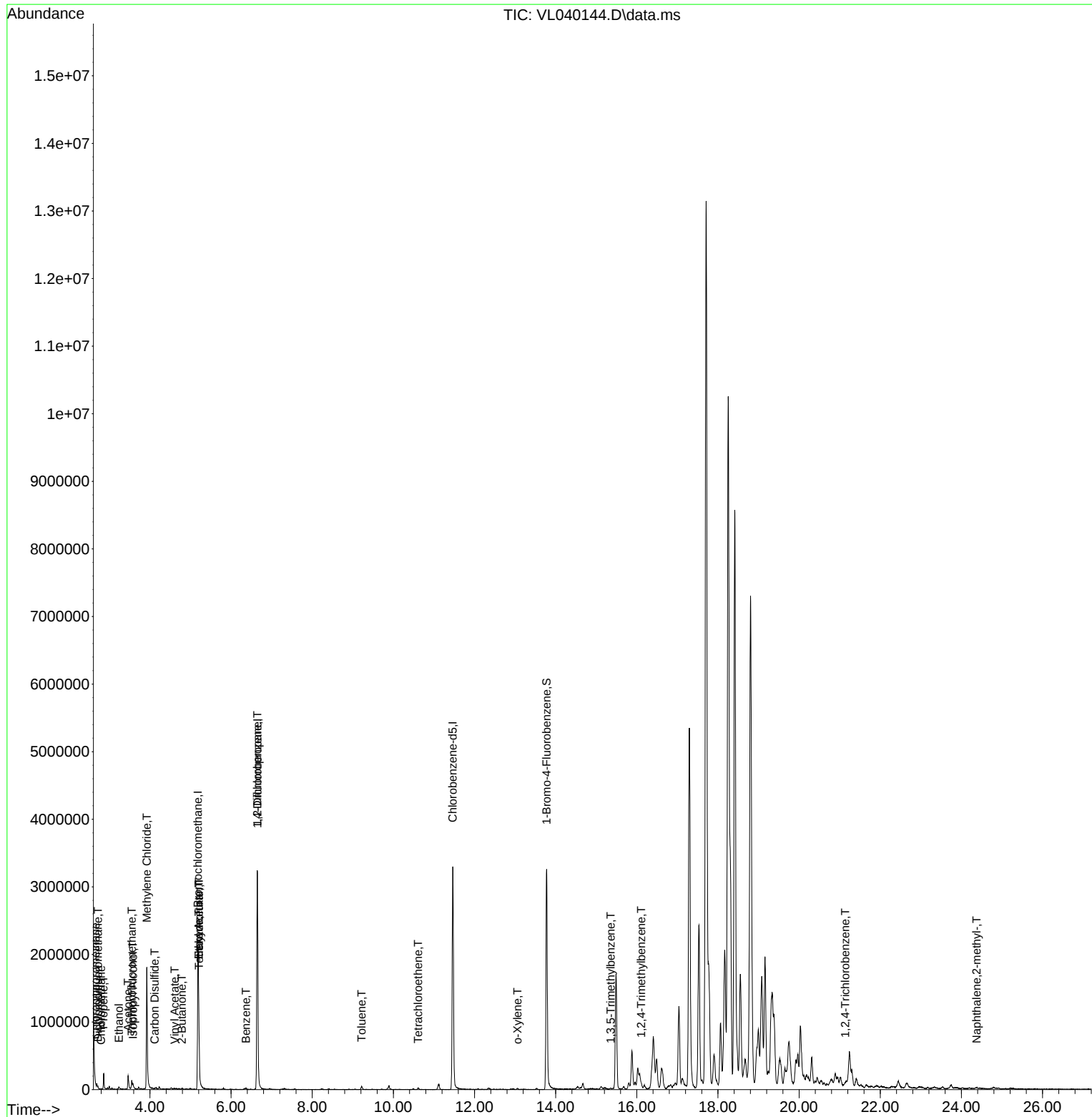
Internal Standards						
1) Bromochloromethane	5.182	49	939460	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.648	114	2419201	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	2065304	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	1602450	9.336	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.719	85	21930	0.133	ppbv	89
3) Chlorodifluoromethane	2.661	51	12640	0.112	ppbv #	87
4) Chloromethane	2.797	50	3521	0.051	ppbv #	70
9) Propene	2.858	41	58963	1.259	ppbv	97
11) Trichlorofluoromethane	3.552	101	76791	0.467	ppbv	89
13) Ethanol	3.237	45	38147	8.853	ppbv	100
15) Acetone	3.462	43	195798	1.738	ppbv #	89
19) Isopropyl Alcohol	3.581	45	71543	1.298	ppbv	99
20) Methylene Chloride	3.925	84	632882	12.732	ppbv	97
23) Vinyl Acetate	4.613	43	2546	0.070	ppbv #	3
25) Ethyl Acetate	5.205	43	198025	0.998	ppbv #	76
26) Hexane	5.205	57	287825	3.313	ppbv #	37
27) Carbon Disulfide	4.118	76	5799	0.052	ppbv #	42
34) 2-Butanone	4.790	43	7356	0.064	ppbv #	23
36) Benzene	6.365	78	10568	0.059	ppbv	96
39) 1,2-Dichloropropane	6.645	63	610602	8.720	ppbv #	22
41) Tetrahydrofuran	5.208	42	109618	1.660	ppbv #	48
52) Tetrachloroethene	10.610	164	3463	0.059	ppbv #	33
53) Toluene	9.217	91	32508	0.170	ppbv	94
60) o-Xylene	13.057	91	9838	0.050	ppbv	88
73) 1,3,5-Trimethylbenzene	15.355	105	7781	0.040	ppbv	98
74) 1,2,4-Trimethylbenzene	16.108	105	27839	0.128	ppbv #	70
80) Naphthalene,2-methyl-	24.378	142	6231	0.148	ppbv	97
81) 1,2,4-Trichlorobenzene	21.140	180	2308	0.030	ppbv #	11

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

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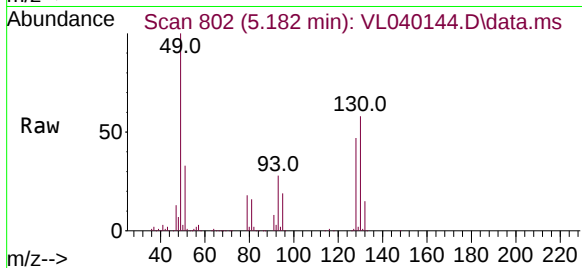
Quant Time: Feb 07 05:54:56 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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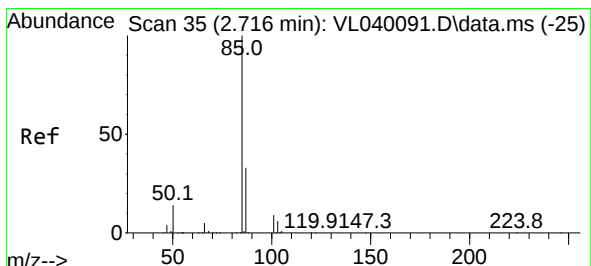
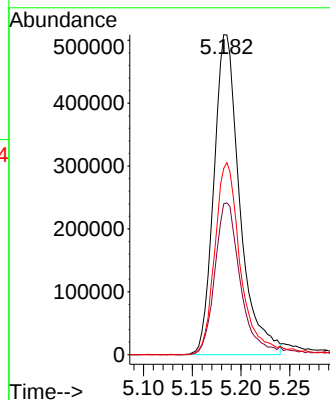
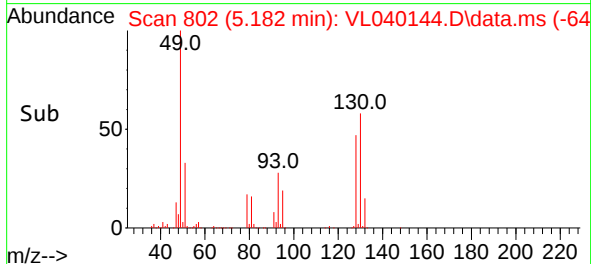


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.182 min Scan# 80
Delta R.T. 0.003 min
Lab File: VL040144.D
Acq: 6 Feb 2023 13:36

Instrument :
MSVOA_L
ClientSampleId :

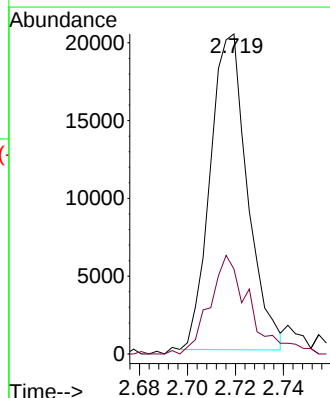
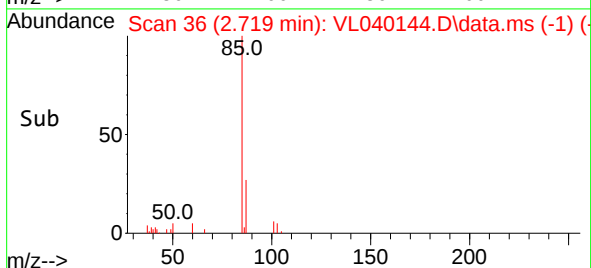
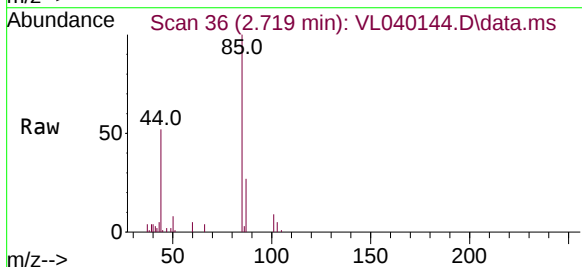


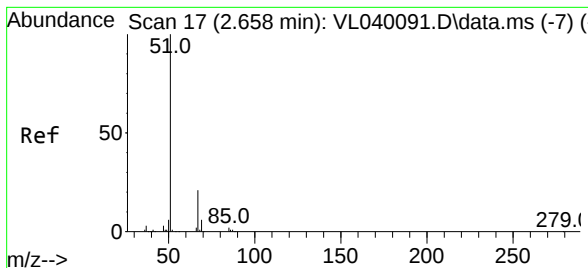
Tgt Ion: 49 Resp: 939460
Ion Ratio Lower Upper
49 100
128 49.3 23.6 71.0
130 61.8 29.8 89.3



#2
Dichlorodifluoromethane
Concen: 0.133 ppbv
RT: 2.719 min Scan# 36
Delta R.T. 0.007 min
Lab File: VL040144.D
Acq: 6 Feb 2023 13:36

Tgt Ion: 85 Resp: 21930
Ion Ratio Lower Upper
85 100
87 26.9 26.5 39.7





#3

Chlorodifluoromethane

Concen: 0.112 ppbv

RT: 2.661 min Scan# 11

Delta R.T. 0.007 min

Lab File: VL040144.D

Acq: 6 Feb 2023 13:36

Instrument :

MSVOA_L

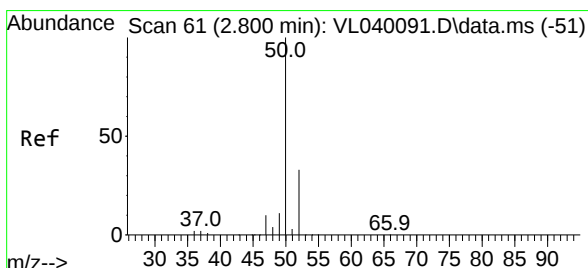
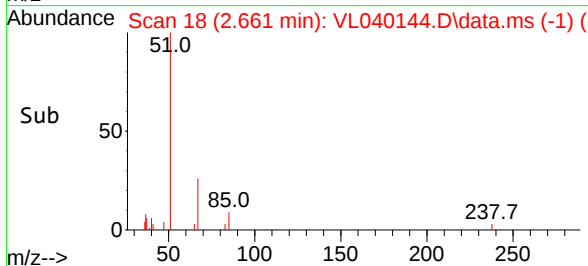
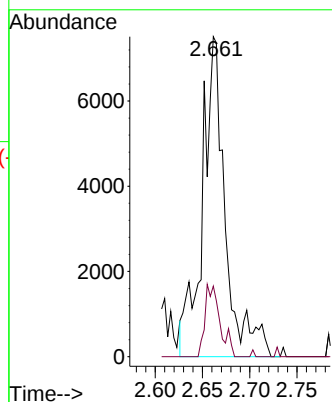
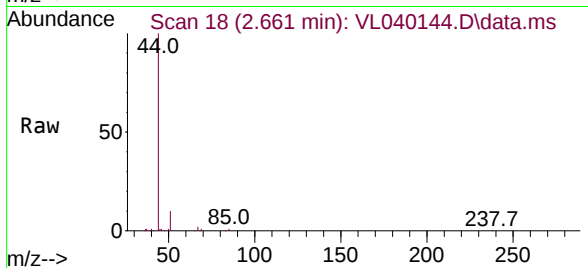
ClientSampleId :

Tgt Ion: 51 Resp: 12640

Ion Ratio Lower Upper

51 100

67 14.7 16.4 24.6#



#4

Chloromethane

Concen: 0.051 ppbv

RT: 2.797 min Scan# 60

Delta R.T. 0.003 min

Lab File: VL040144.D

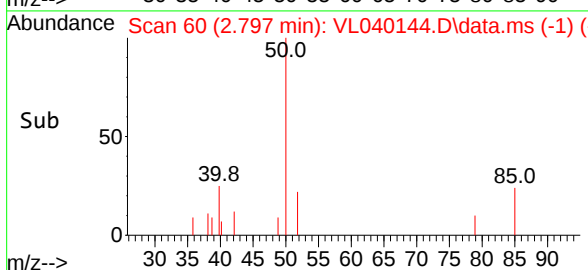
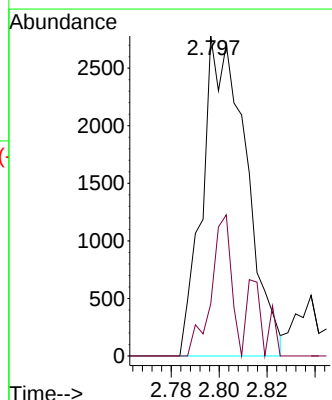
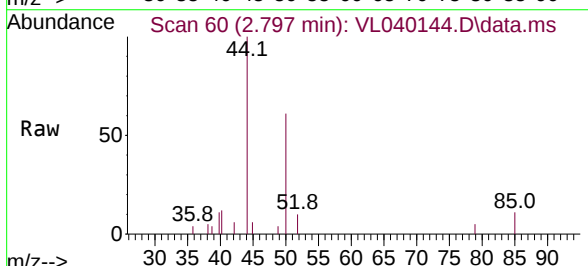
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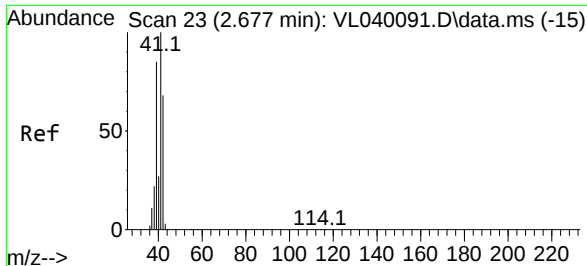
Tgt Ion: 50 Resp: 3521

Ion Ratio Lower Upper

50 100

52 16.3 26.5 39.7#





#9

Propene

Concen: 1.259 ppbv

RT: 2.858 min Scan# 79

Delta R.T. 0.183 min

Lab File: VL040144.D

Acq: 6 Feb 2023 13:36

Instrument :

MSVOA_L

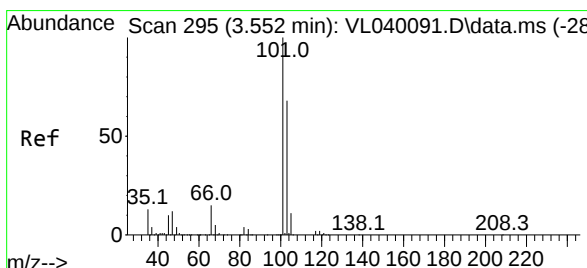
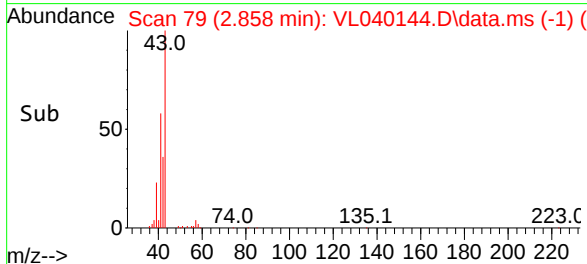
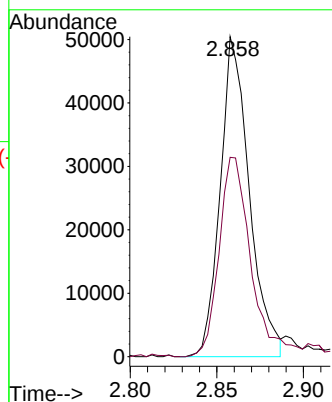
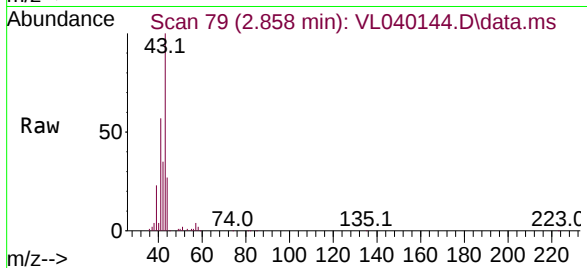
ClientSampleId :

Tgt Ion: 41 Resp: 58963

Ion Ratio Lower Upper

41 100

42 72.3 55.6 83.4



#11

Trichlorofluoromethane

Concen: 0.467 ppbv

RT: 3.552 min Scan# 295

Delta R.T. 0.007 min

Lab File: VL040144.D

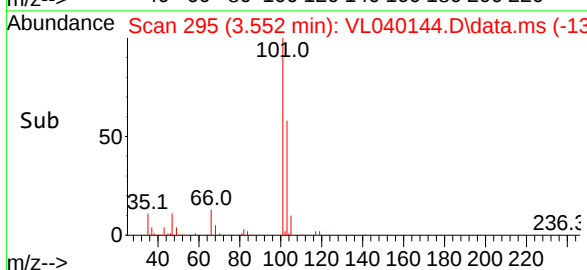
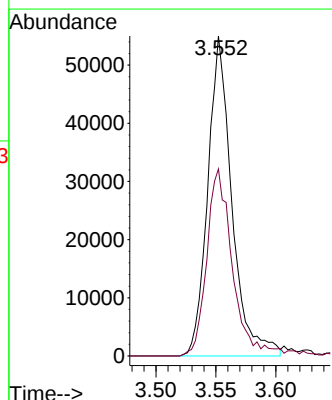
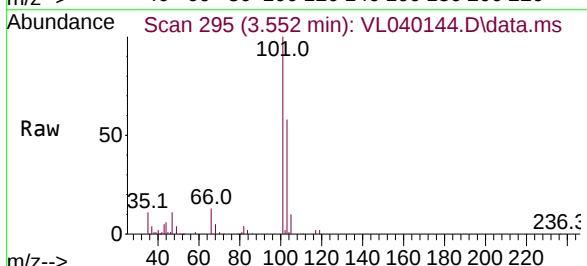
Acq: 6 Feb 2023 13:36

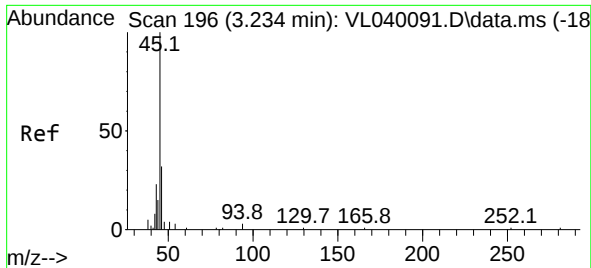
Tgt Ion: 101 Resp: 76791

Ion Ratio Lower Upper

101 100

103 58.5 54.0 81.0

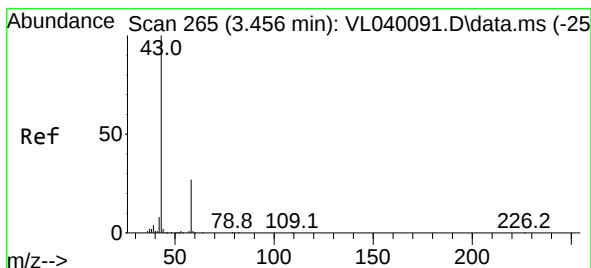
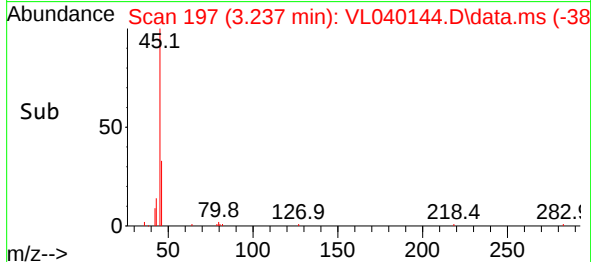
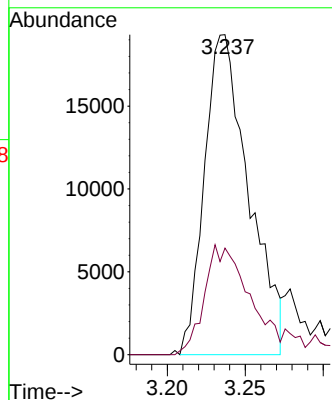
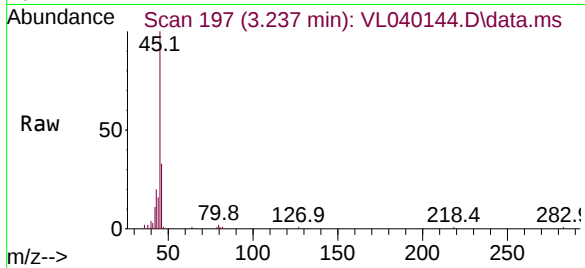




#13
 Ethanol
 Concen: 8.853 ppbv
 RT: 3.237 min Scan# 196
 Delta R.T. 0.010 min
 Lab File: VL040144.D
 Acq: 6 Feb 2023 13:36

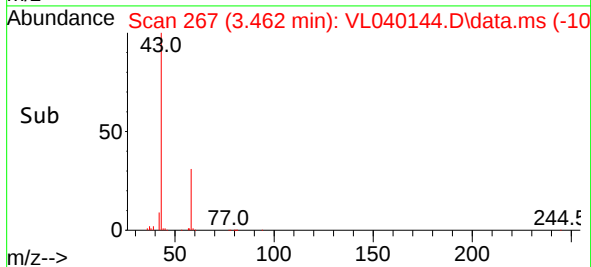
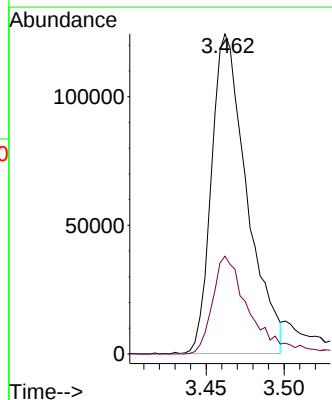
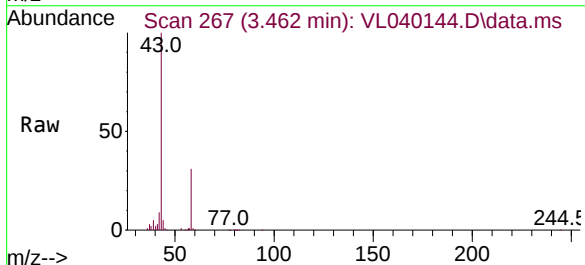
Instrument :
 MSVOA_L
 ClientSampleId :

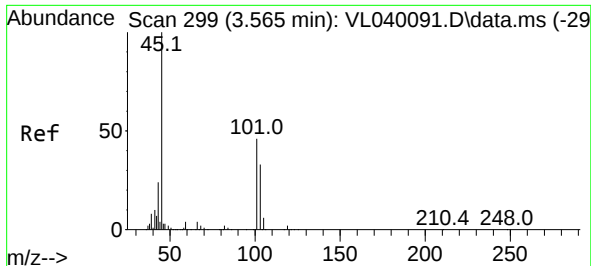
Tgt Ion: 45 Resp: 38147
 Ion Ratio Lower Upper
 45 100
 46 37.3 14.8 59.2



#15
 Acetone
 Concen: 1.738 ppbv
 RT: 3.462 min Scan# 267
 Delta R.T. 0.013 min
 Lab File: VL040144.D
 Acq: 6 Feb 2023 13:36

Tgt Ion: 43 Resp: 195798
 Ion Ratio Lower Upper
 43 100
 58 32.8 21.8 32.8#





#19

Isopropyl Alcohol

Concen: 1.298 ppbv

RT: 3.581 min Scan# 304

Delta R.T. 0.023 min

Lab File: VL040144.D

Acq: 6 Feb 2023 13:36

Instrument :

MSVOA_L

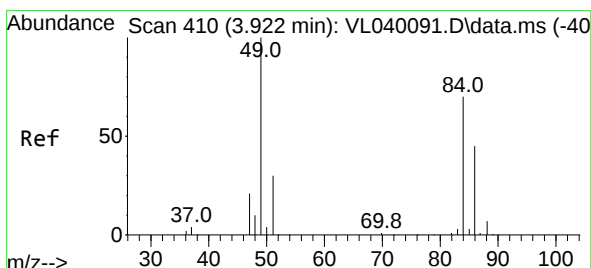
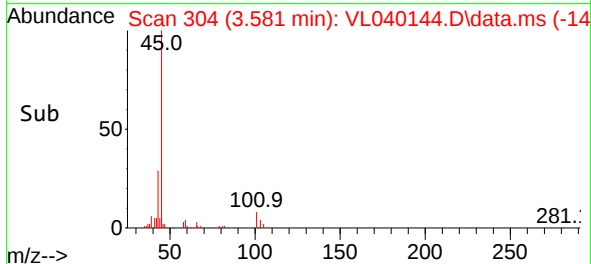
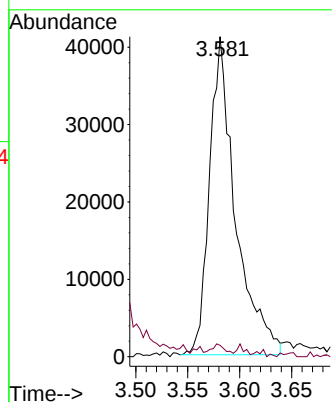
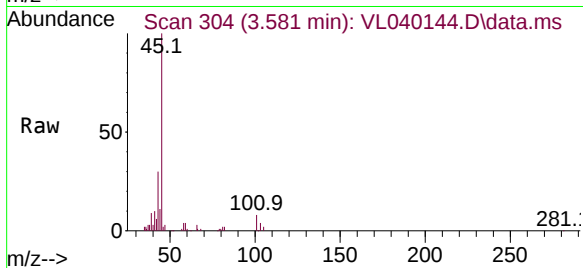
ClientSampleId :

Tgt Ion: 45 Resp: 71543

Ion Ratio Lower Upper

45 100

58 3.5 2.6 4.0



#20

Methylene Chloride

Concen: 12.732 ppbv

RT: 3.925 min Scan# 411

Delta R.T. 0.010 min

Lab File: VL040144.D

Acq: 6 Feb 2023 13:36

Tgt Ion: 84 Resp: 632882

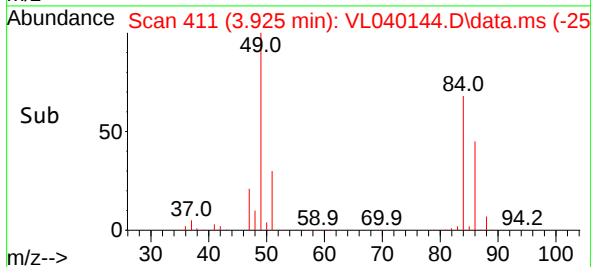
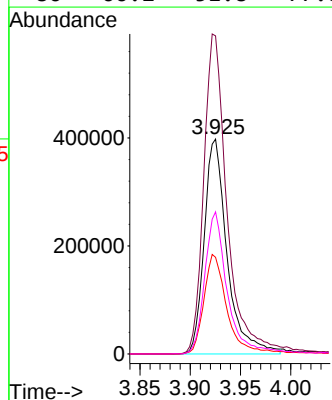
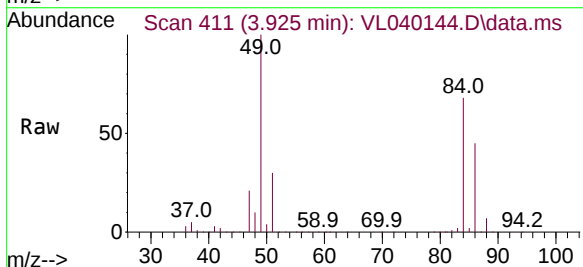
Ion Ratio Lower Upper

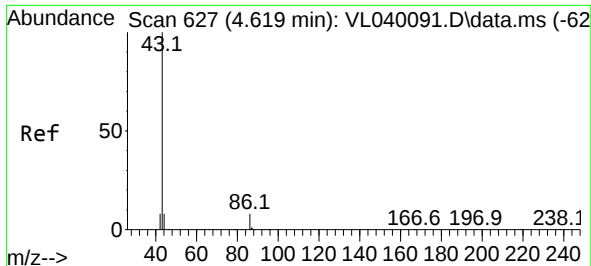
84 100

49 147.9 114.6 171.8

51 45.0 34.3 51.5

86 66.2 51.8 77.8

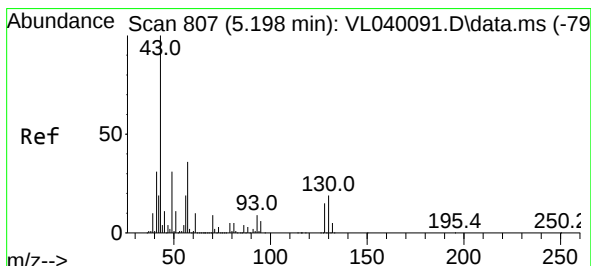
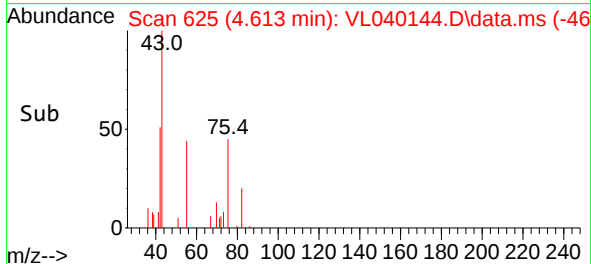
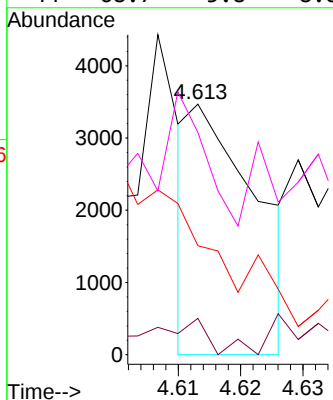
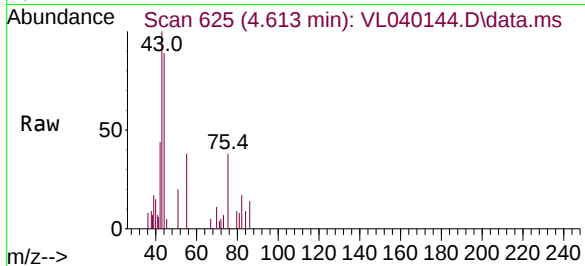




#23
 Vinyl Acetate
 Concen: 0.070 ppbv
 RT: 4.613 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL040144.D
 Acq: 6 Feb 2023 13:36

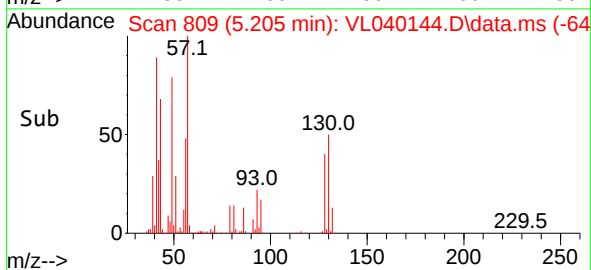
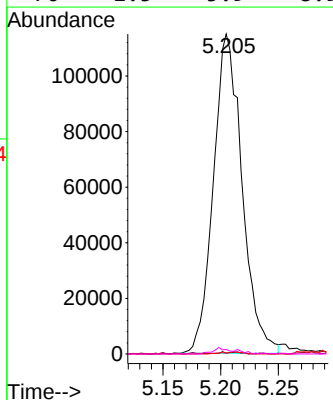
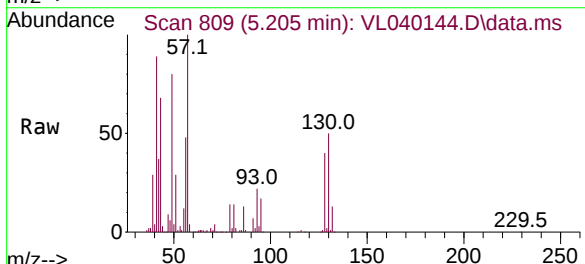
Instrument :
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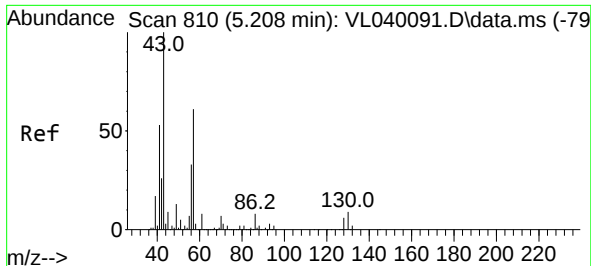
Tgt Ion: 43 Resp: 2546
 Ion Ratio Lower Upper
 43 100
 86 15.0 5.6 8.4#
 42 43.0 7.7 11.5#
 44 68.7 5.8 8.8#



#25
 Ethyl Acetate
 Concen: 0.998 ppbv
 RT: 5.205 min Scan# 809
 Delta R.T. 0.016 min
 Lab File: VL040144.D
 Acq: 6 Feb 2023 13:36

Tgt Ion: 43 Resp: 198025
 Ion Ratio Lower Upper
 43 100
 45 0.6 8.5 12.7#
 61 0.4 8.4 12.6#
 70 1.5 5.9 8.9#

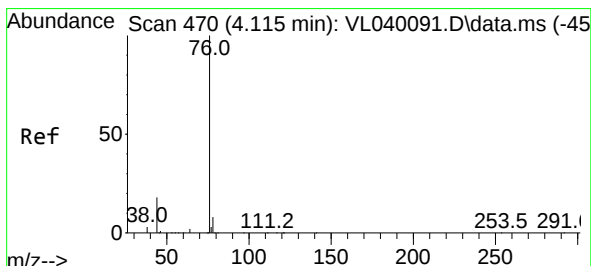
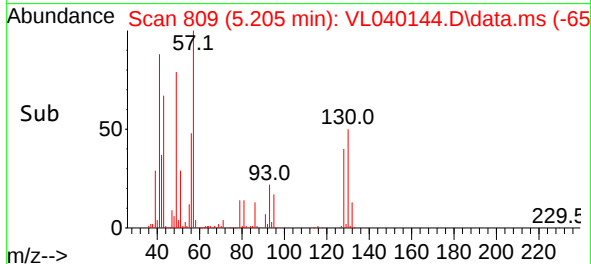
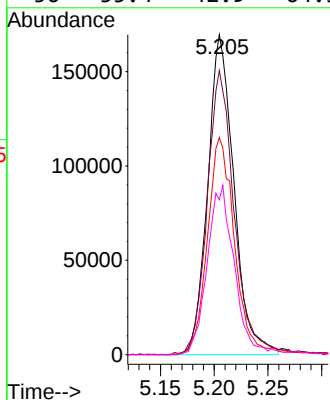
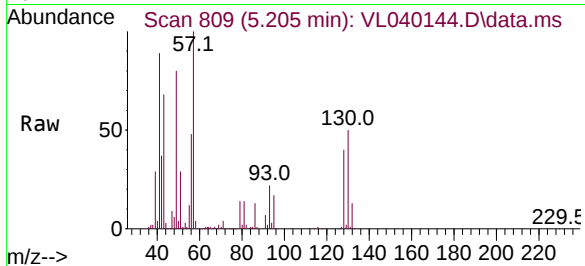




#26
Hexane
Concen: 3.313 ppbv
RT: 5.205 min Scan# 80
Delta R.T. 0.007 min
Lab File: VL040144.D
Acq: 6 Feb 2023 13:36

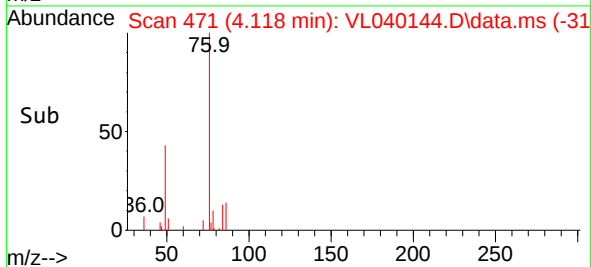
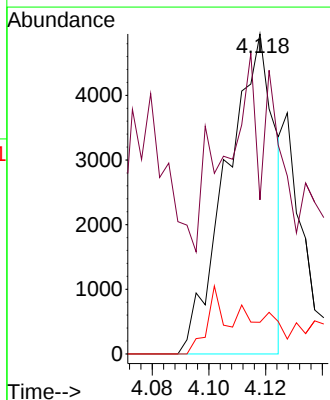
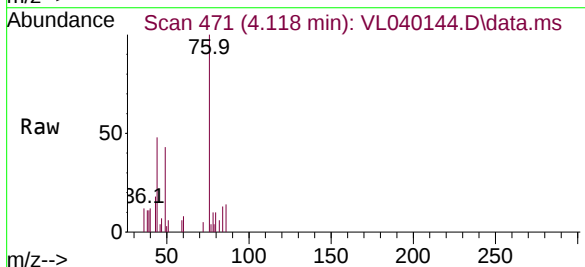
Instrument :
MSVOA_L
ClientSampleId :

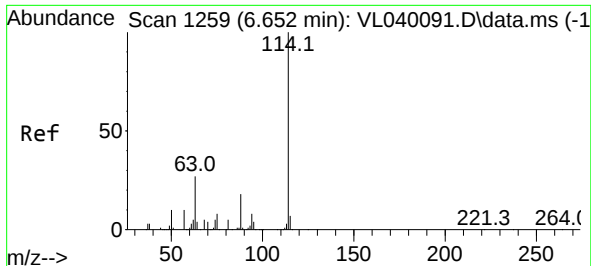
Tgt Ion: 57 Resp: 287825
Ion Ratio Lower Upper
57 100
41 93.1 72.2 108.4
43 70.4 192.1 288.1#
56 55.4 42.9 64.3



#27
Carbon Disulfide
Concen: 0.052 ppbv
RT: 4.118 min Scan# 471
Delta R.T. 0.010 min
Lab File: VL040144.D
Acq: 6 Feb 2023 13:36

Tgt Ion: 76 Resp: 5799
Ion Ratio Lower Upper
76 100
44 46.7 14.9 22.3#
78 28.5 8.2 12.2#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.648 min Scan# 11

Delta R.T. 0.007 min

Lab File: VL040144.D

Acq: 6 Feb 2023 13:36

Instrument :

MSVOA_L

ClientSampleId :

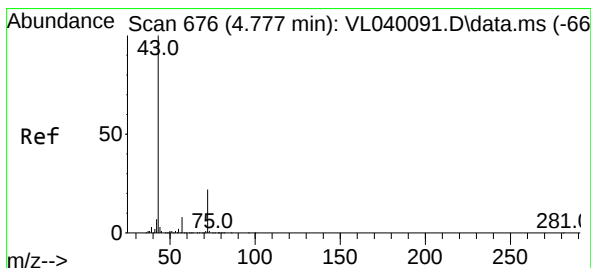
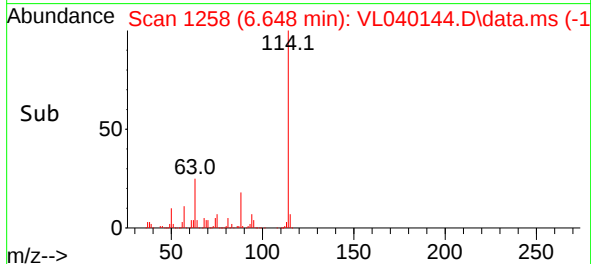
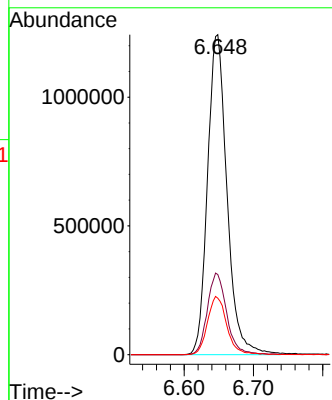
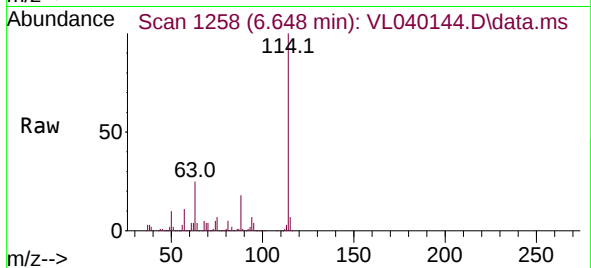
Tgt Ion:114 Resp: 2419201

Ion Ratio Lower Upper

114 100

63 25.5 21.8 32.8

88 18.1 14.8 22.2



#34

2-Butanone

Concen: 0.064 ppbv

RT: 4.790 min Scan# 680

Delta R.T. 0.019 min

Lab File: VL040144.D

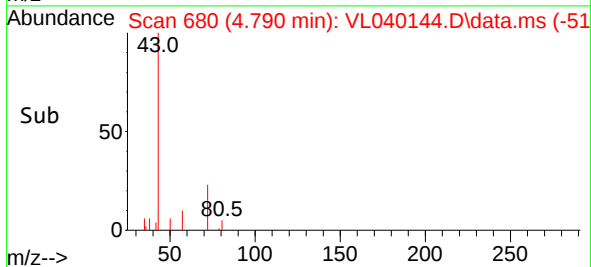
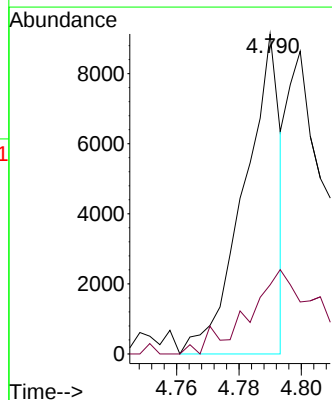
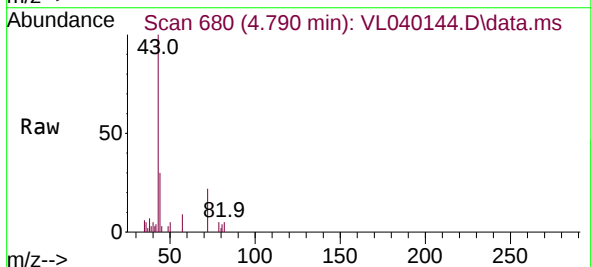
Acq: 6 Feb 2023 13:36

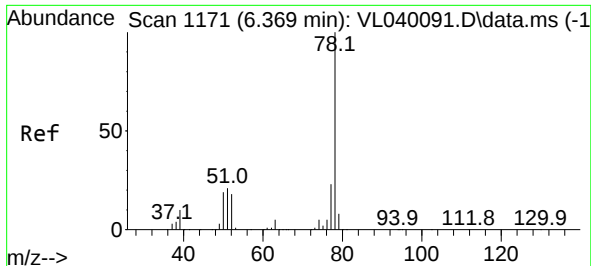
Tgt Ion: 43 Resp: 7356

Ion Ratio Lower Upper

43 100

72 60.2 18.4 27.6#

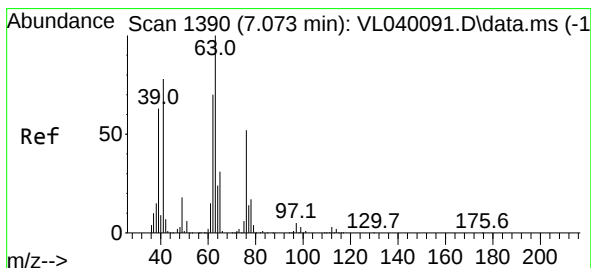
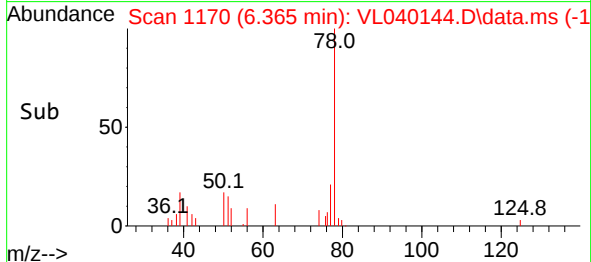
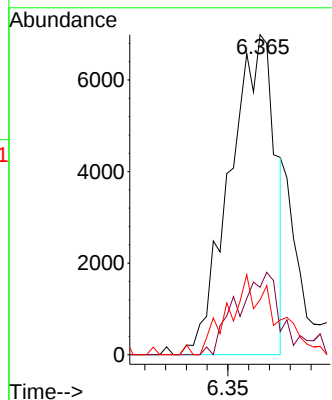
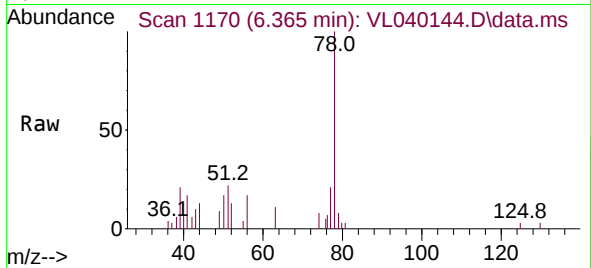




#36
Benzene
Concen: 0.059 ppbv
RT: 6.365 min Scan# 1171
Delta R.T. 0.007 min
Lab File: VL040144.D
Acq: 6 Feb 2023 13:36

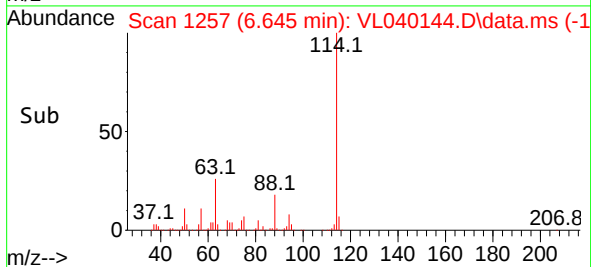
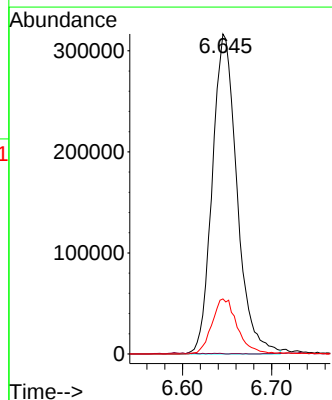
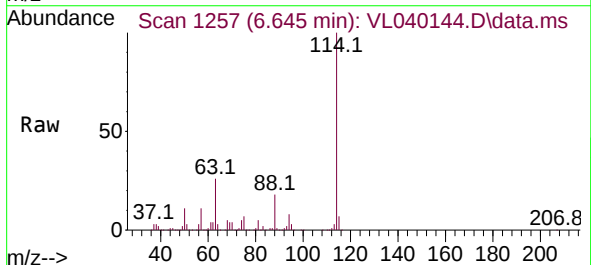
Instrument :
MSVOA_L
ClientSampleId :

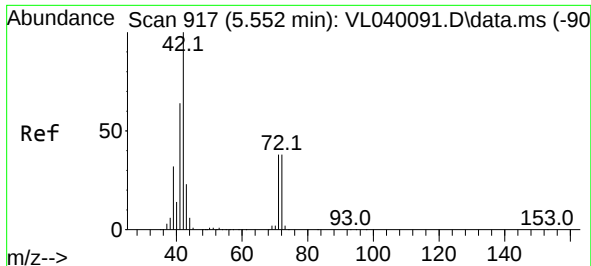
Tgt Ion: 78 Resp: 10568
Ion Ratio Lower Upper
78 100
77 21.0 18.1 27.1
50 17.2 15.6 23.4



#39
1,2-Dichloropropane
Concen: 8.720 ppbv
RT: 6.645 min Scan# 1257
Delta R.T. -0.418 min
Lab File: VL040144.D
Acq: 6 Feb 2023 13:36

Tgt Ion: 63 Resp: 610602
Ion Ratio Lower Upper
63 100
41 0.0 62.2 93.4#
62 17.2 55.8 83.8#





#41

Tetrahydrofuran

Concen: 1.660 ppbv

RT: 5.208 min Scan# 81

Delta R.T. -0.334 min

Lab File: VL040144.D

Acq: 6 Feb 2023 13:36

Instrument :

MSVOA_L

ClientSampleId :

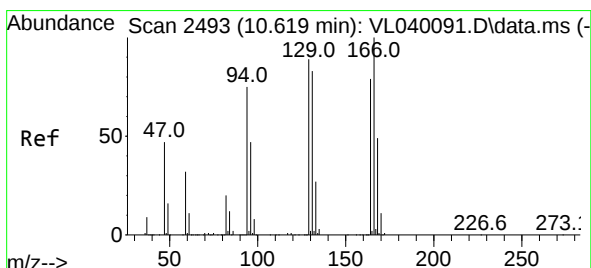
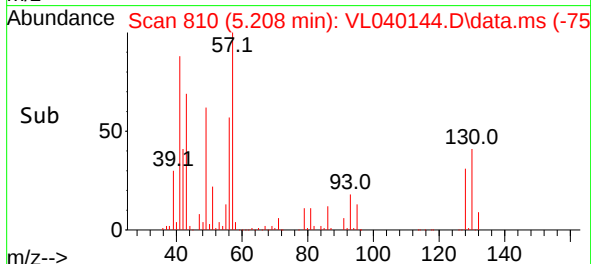
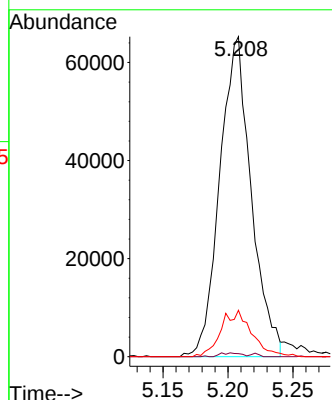
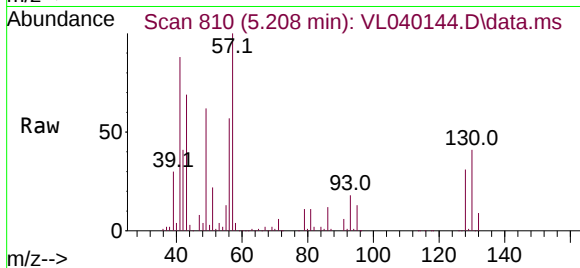
Tgt Ion: 42 Resp: 109618

Ion Ratio Lower Upper

42 100

72 1.1 31.9 47.9#

71 14.3 31.4 47.2#



#52

Tetrachloroethene

Concen: 0.059 ppbv

RT: 10.610 min Scan# 2490

Delta R.T. 0.003 min

Lab File: VL040144.D

Acq: 6 Feb 2023 13:36

Tgt Ion:164 Resp: 3463

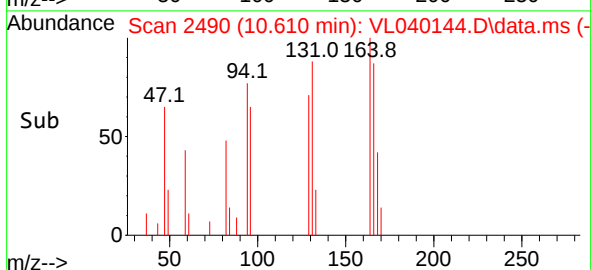
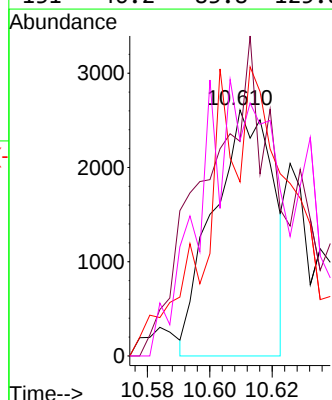
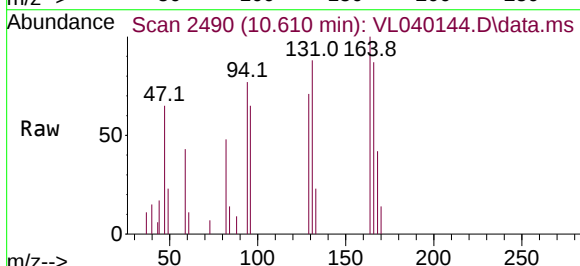
Ion Ratio Lower Upper

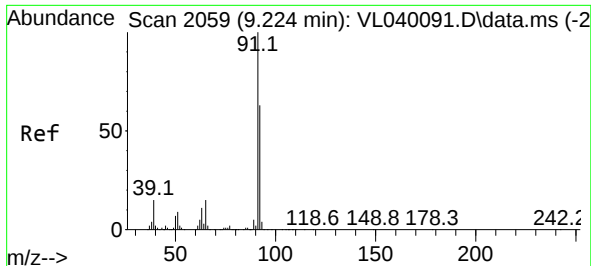
164 100

166 30.1 101.2 151.8#

129 50.1 90.2 135.2#

131 46.2 83.8 125.8#

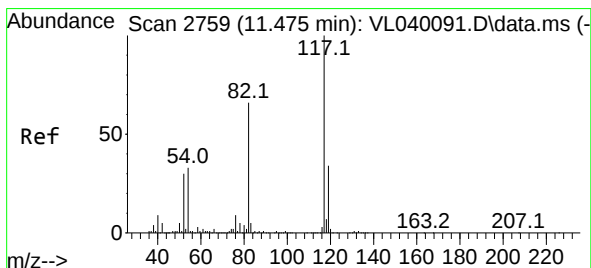
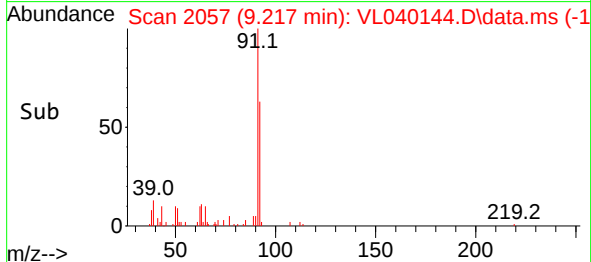
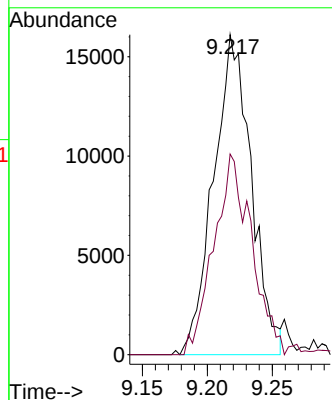
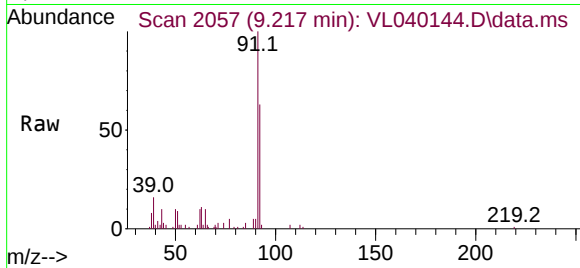




#53
Toluene
Concen: 0.170 ppbv
RT: 9.217 min Scan# 2057
Delta R.T. 0.007 min
Lab File: VL040144.D
Acq: 6 Feb 2023 13:36

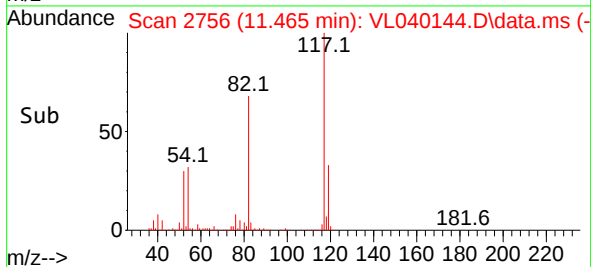
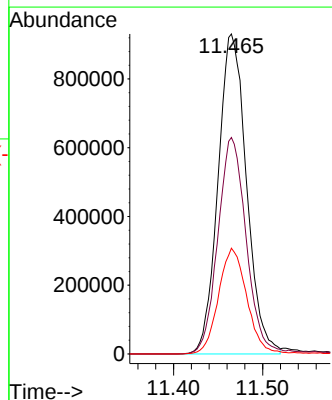
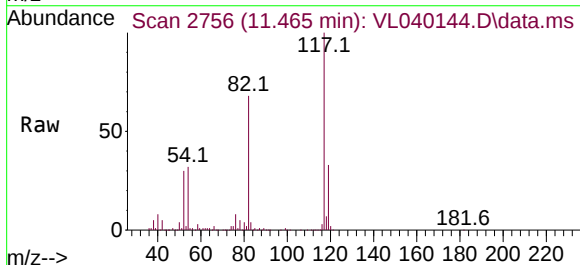
Instrument :
MSVOA_L
ClientSampleId :

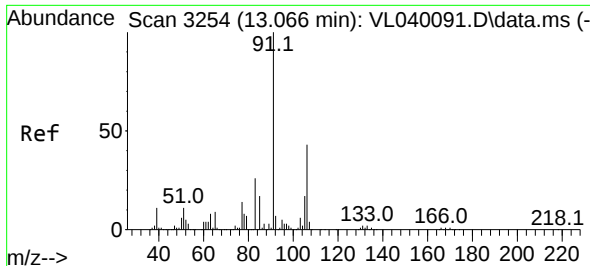
Tgt Ion: 91 Resp: 32508
Ion Ratio Lower Upper
91 100
92 64.9 48.3 72.5



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 2756
Delta R.T. 0.007 min
Lab File: VL040144.D
Acq: 6 Feb 2023 13:36

Tgt Ion: 117 Resp: 2065304
Ion Ratio Lower Upper
117 100
82 68.9 54.4 81.6
119 33.4 26.8 40.2

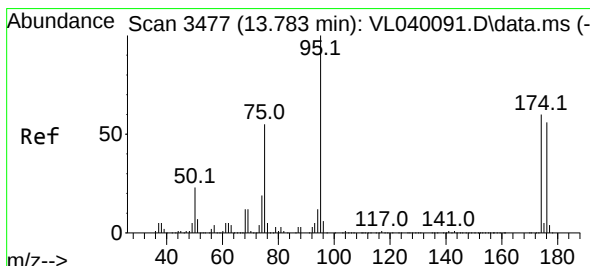
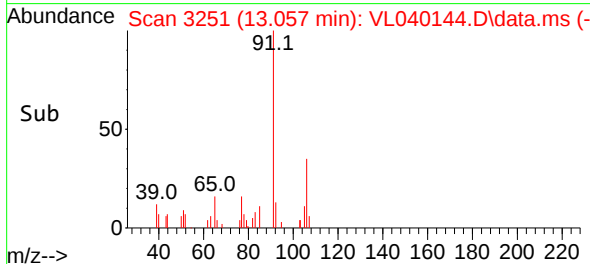
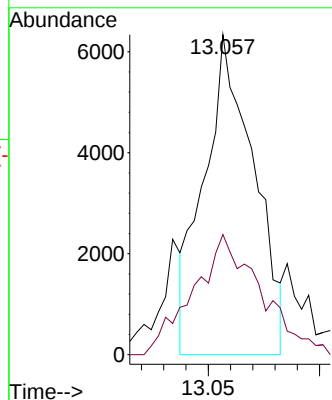
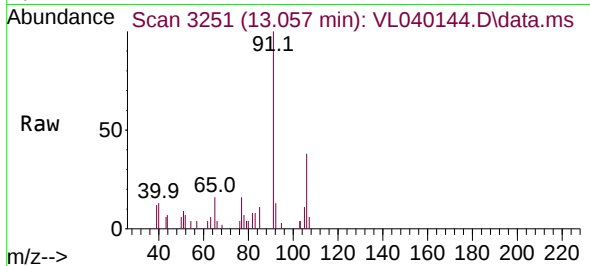




#60
o-Xylene
Concen: 0.050 ppbv
RT: 13.057 min Scan# 31
Delta R.T. 0.007 min
Lab File: VL040144.D
Acq: 6 Feb 2023 13:36

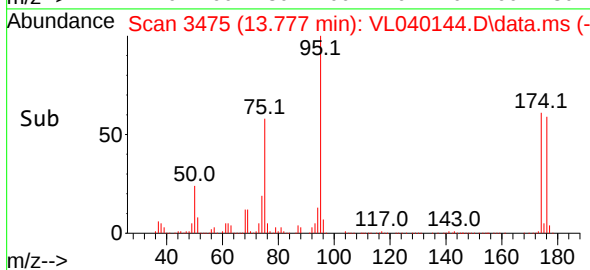
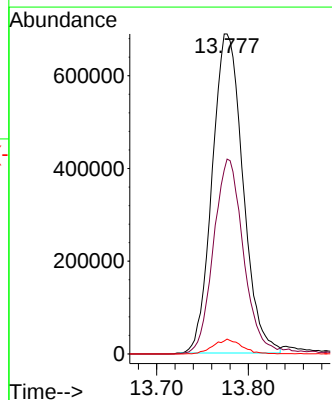
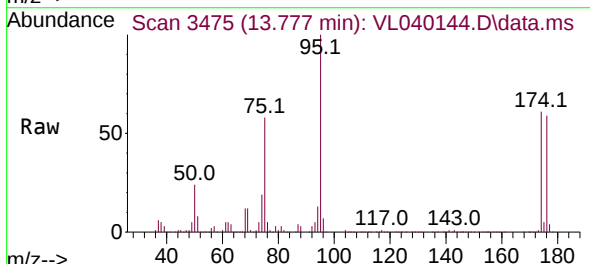
Instrument :
MSVOA_L
ClientSampleId :

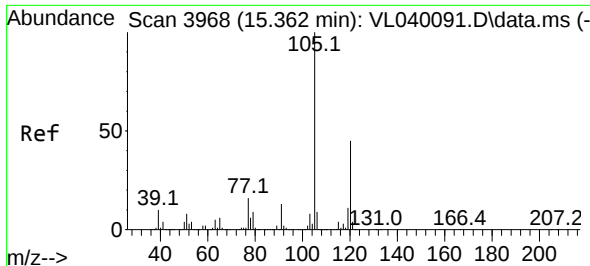
Tgt Ion: 91 Resp: 9838
Ion Ratio Lower Upper
91 100
106 51.2 21.6 64.8



#68
1-Bromo-4-Fluorobenzene
Concen: 9.336 ppbv
RT: 13.777 min Scan# 3475
Delta R.T. 0.007 min
Lab File: VL040144.D
Acq: 6 Feb 2023 13:36

Tgt Ion: 95 Resp: 1602450
Ion Ratio Lower Upper
95 100
174 61.5 47.7 71.5
175 4.3 3.4 5.2

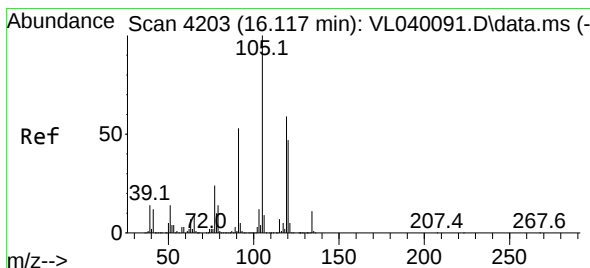
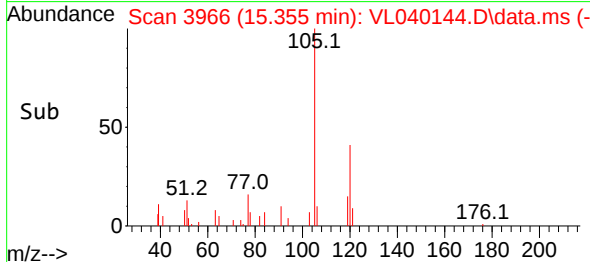
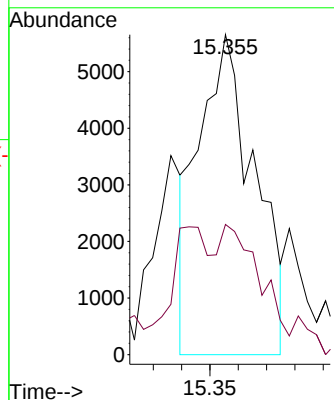
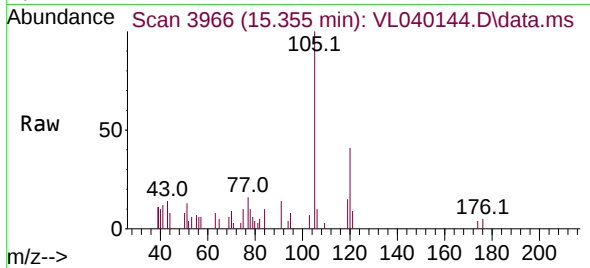




#73
 1,3,5-Trimethylbenzene
 Concen: 0.040 ppbv
 RT: 15.355 min Scan# 3966
 Delta R.T. 0.007 min
 Lab File: VL040144.D
 Acq: 6 Feb 2023 13:36

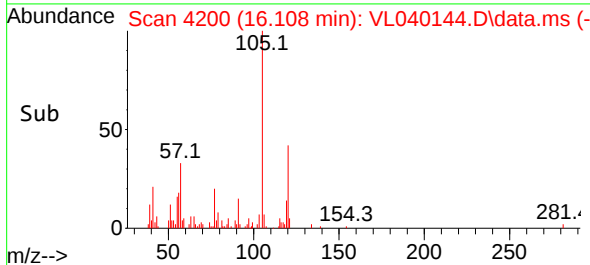
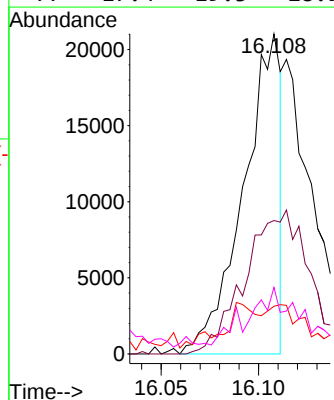
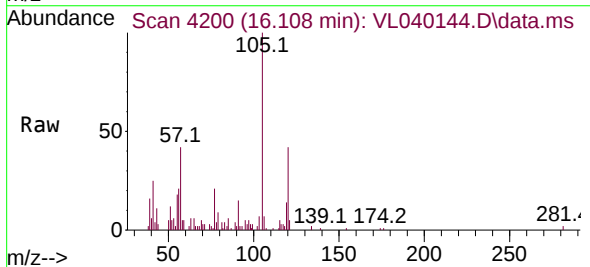
Instrument :
 MSVOA_L
 ClientSampleId :

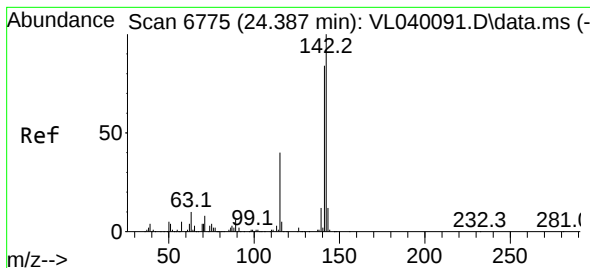
Tgt Ion:105 Resp: 7781
 Ion Ratio Lower Upper
 105 100
 120 44.1 36.2 54.4



#74
 1,2,4-Trimethylbenzene
 Concen: 0.128 ppbv
 RT: 16.108 min Scan# 4200
 Delta R.T. 0.007 min
 Lab File: VL040144.D
 Acq: 6 Feb 2023 13:36

Tgt Ion:105 Resp: 27839
 Ion Ratio Lower Upper
 105 100
 120 41.7 38.0 57.0
 91 13.1 42.1 63.1#
 77 17.4 19.3 28.9#





#80

Naphthalene, 2-methyl-

Concen: 0.148 ppbv

RT: 24.378 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL040144.D

Acq: 6 Feb 2023 13:36

Instrument :

MSVOA_L

ClientSampleId :

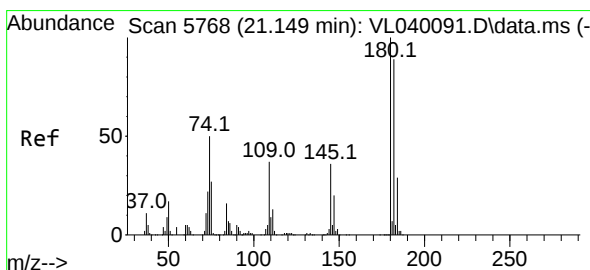
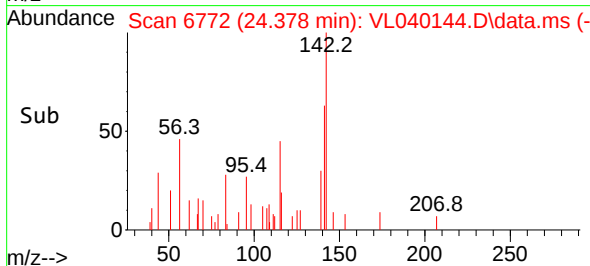
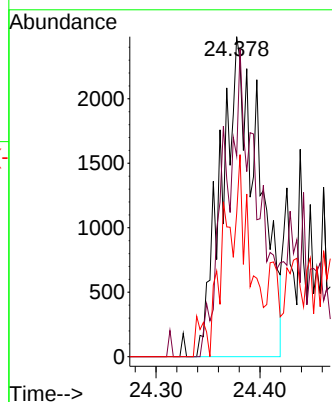
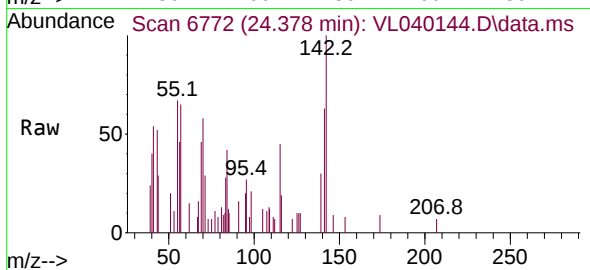
Tgt Ion:142 Resp: 6231

Ion Ratio Lower Upper

142 100

141 84.2 65.0 97.6

115 42.0 31.8 47.8



#81

1,2,4-Trichlorobenzene

Concen: 0.030 ppbv

RT: 21.140 min Scan# 5765

Delta R.T. 0.007 min

Lab File: VL040144.D

Acq: 6 Feb 2023 13:36

Tgt Ion:180 Resp: 2308

Ion Ratio Lower Upper

180 100

182 0.0 78.6 117.8#

184 0.0 25.1 37.7#

