

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032123\
 Data File : VY013024.D
 Acq On : 21 Mar 2023 14:01
 Operator : KP/MD
 Sample : 02020-01
 Misc : 5.05g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SP-1

Quant Time: Mar 22 04:19:46 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030223S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 03 01:13:13 2023
 Response via : Initial Calibration

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

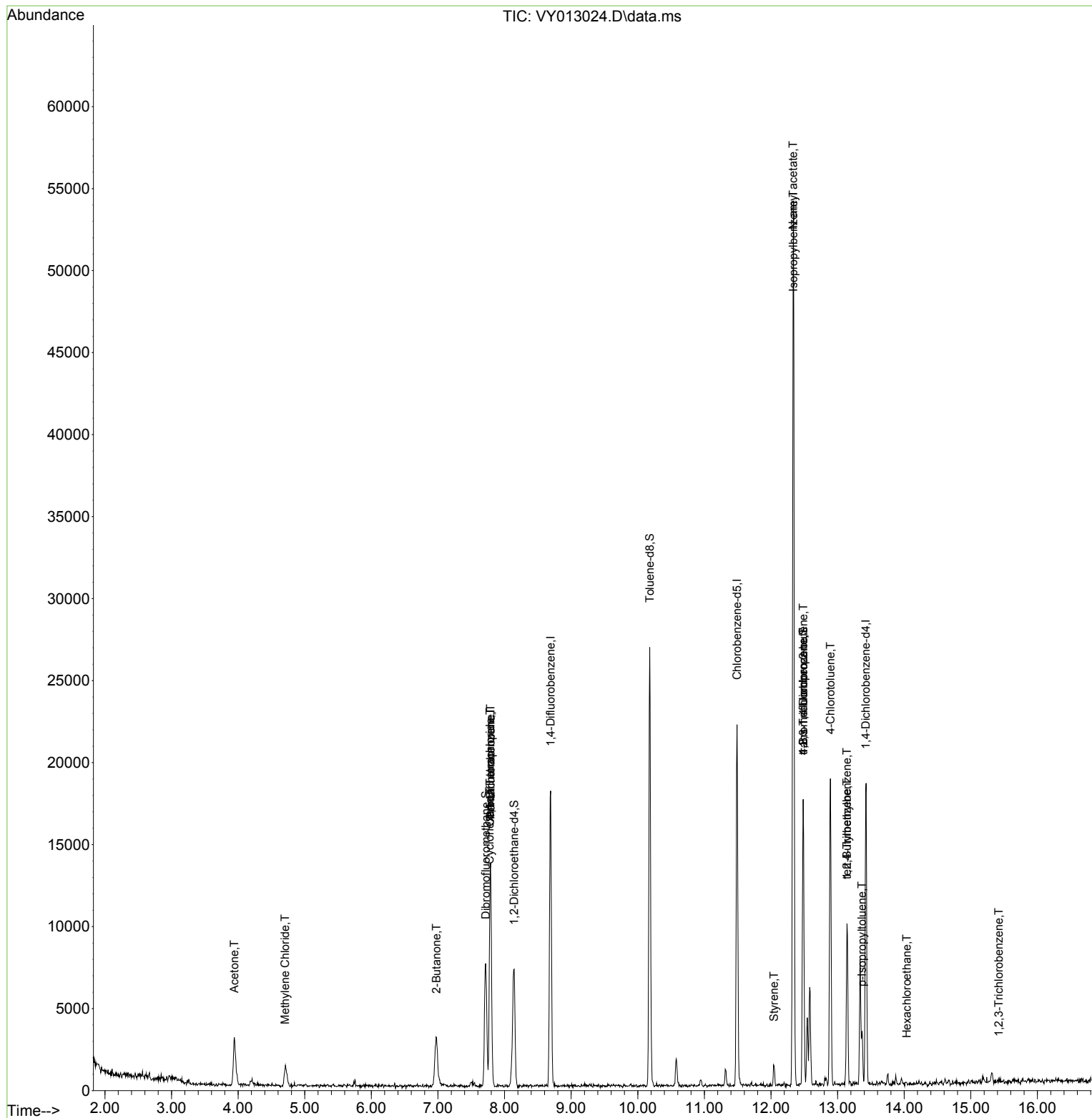
Internal Standards						
1) Pentafluorobenzene	7.789	168	10937	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	15770	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	12169	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	4934	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	5643	51.966	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 103.940%	
35) Dibromofluoromethane	7.716	113	5587	58.704	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 117.400%	
50) Toluene-d8	10.179	98	18123	52.088	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 104.180%	
62) 4-Bromofluorobenzene	12.483	95	4903	41.751	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 83.500%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.948	59	19	Below Cal	#	74
16) Acetone	3.942	43	5016	117.684	ug/l	99
20) Methylene Chloride	4.704	84	815	1.001	ug/l	96
25) 2-Butanone	6.978	43	216	4.092	ug/l	# 49
31) Cyclohexane	7.777	56	253	1.217	ug/l	# 69
36) 1,1-Dichloropropene	7.789	75	908	5.693	ug/l	# 41
38) Carbon Tetrachloride	7.783	117	1043	6.333	ug/l	# 12
70) Styrene	12.044	104	700	2.602	ug/l	# 88
73) Isopropylbenzene	12.337	105	2359	6.746	ug/l	# 71
74) N-amyl acetate	12.331	43	1146	10.416	ug/l	# 14
76) 1,2,3-Trichloropropane	12.483	75	2511	42.617	ug/l	# 100
81) trans-1,4-Dichloro-2-b...	12.483	75	2511	88.304	ug/l	# 13
82) 4-Chlorotoluene	12.892	91	2368	9.547	ug/l	# 39
83) tert-Butylbenzene	13.142	119	439	1.763	ug/l	# 1
84) 1,2,4-Trimethylbenzene	13.142	105	649	2.300	ug/l	# 50
86) p-Isopropyltoluene	13.367	119	1901	6.121	ug/l	# 75
90) Hexachloroethane	14.038	117	76	1.175	ug/l	# 10
96) 1,2,3-Trichlorobenzene	15.422	180	120	1.480	ug/l	# 31

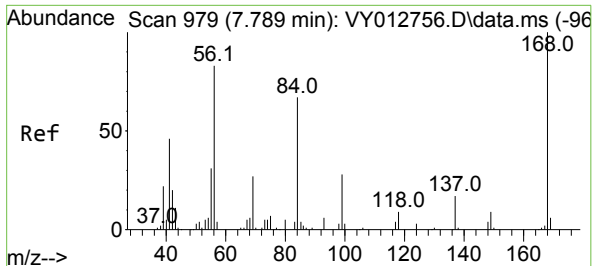
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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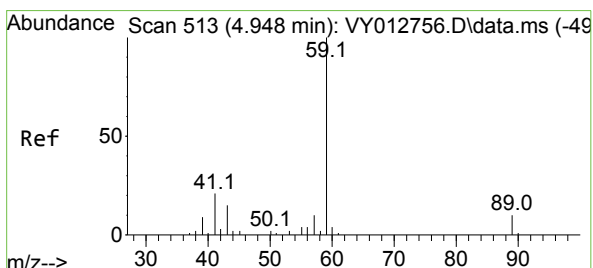
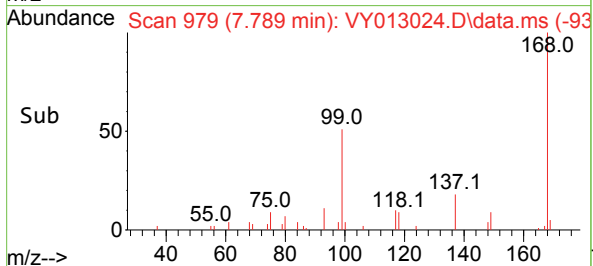
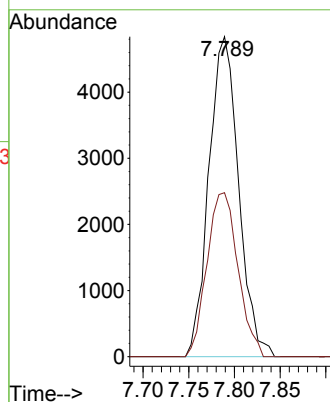
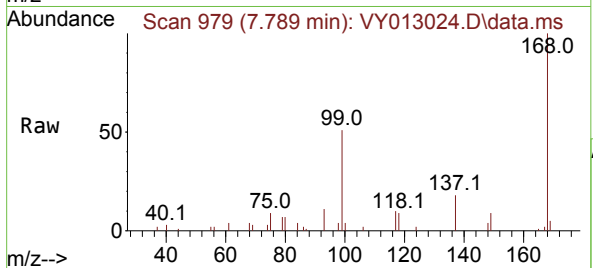




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY013024.D
Acq: 21 Mar 2023 14:01

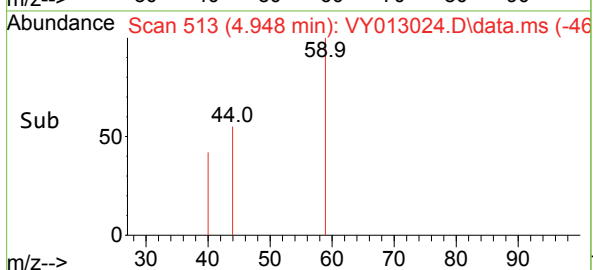
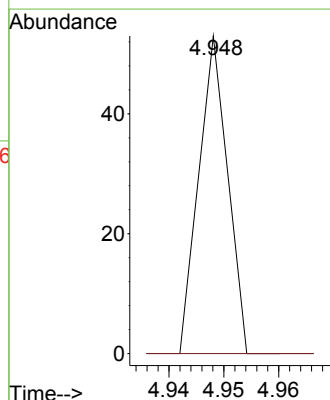
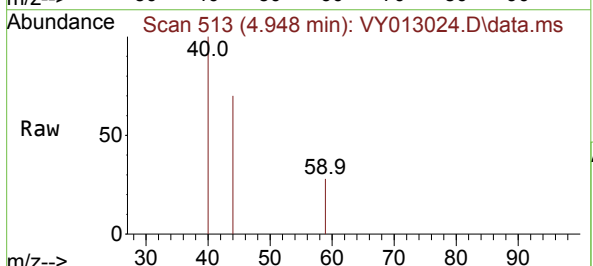
Instrument :
MSVOA_Y
ClientSampleId :
SP-1

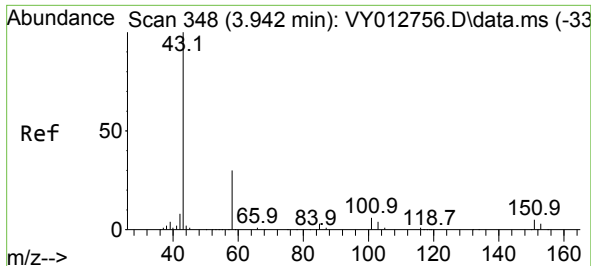
Tgt Ion:168 Resp: 10937
Ion Ratio Lower Upper
168 100
99 51.3 41.7 62.5



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.948 min Scan# 513
Delta R.T. 0.000 min
Lab File: VY013024.D
Acq: 21 Mar 2023 14:01

Tgt Ion: 59 Resp: 19
Ion Ratio Lower Upper
59 100
57 0.0 7.7 11.5#

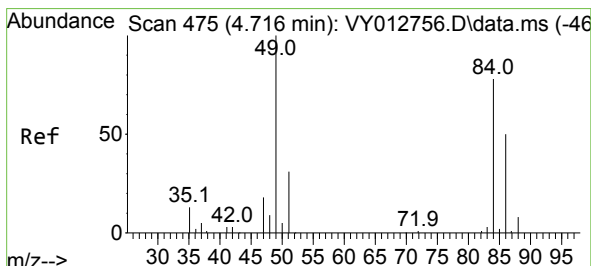
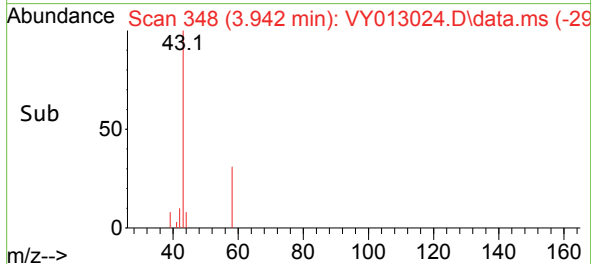
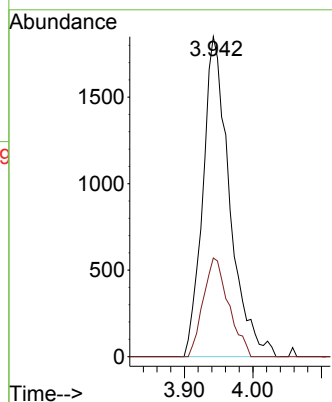
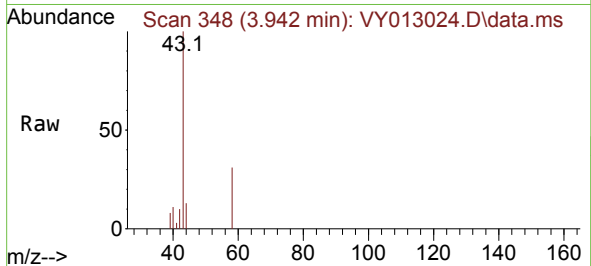




#16
Acetone
Concen: 117.684 ug/l
RT: 3.942 min Scan# 348
Delta R.T. 0.000 min
Lab File: VY013024.D
Acq: 21 Mar 2023 14:01

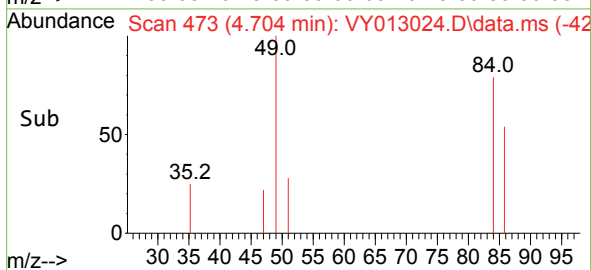
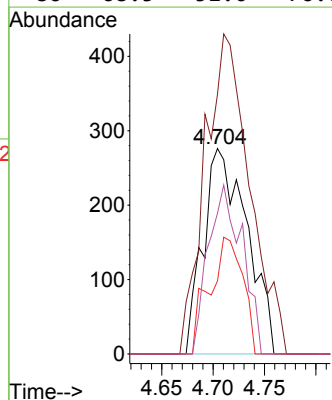
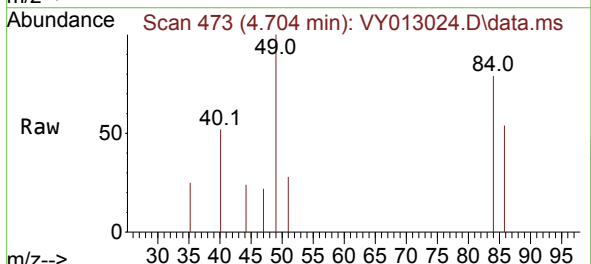
Instrument :
MSVOA_Y
ClientSampleId :
SP-1

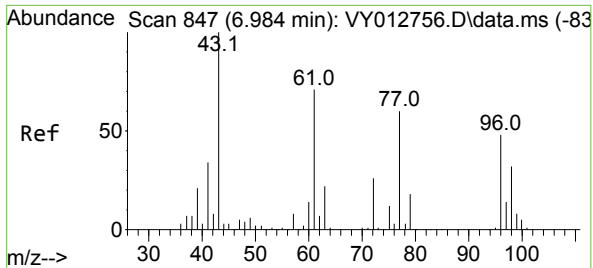
Tgt Ion: 43 Resp: 5016
Ion Ratio Lower Upper
43 100
58 30.8 24.2 36.2



#20
Methylene Chloride
Concen: 1.001 ug/l
RT: 4.704 min Scan# 473
Delta R.T. -0.012 min
Lab File: VY013024.D
Acq: 21 Mar 2023 14:01

Tgt Ion: 84 Resp: 815
Ion Ratio Lower Upper
84 100
49 126.4 102.6 154.0
51 35.5 31.9 47.9
86 68.5 51.0 76.6

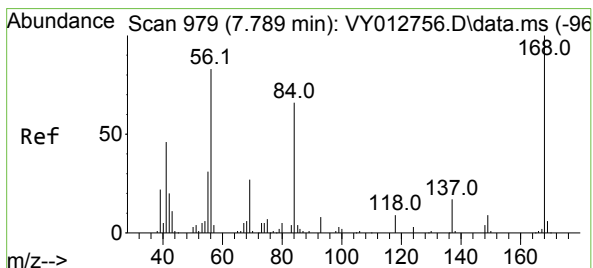
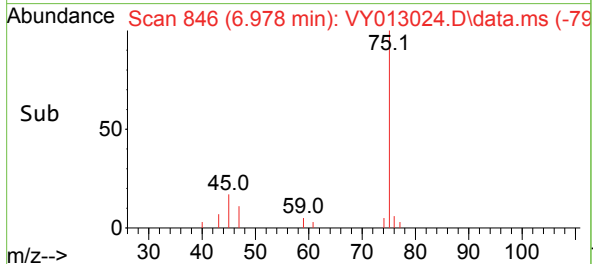
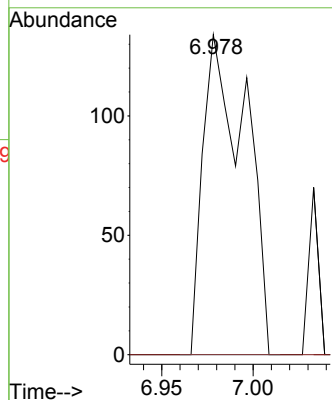
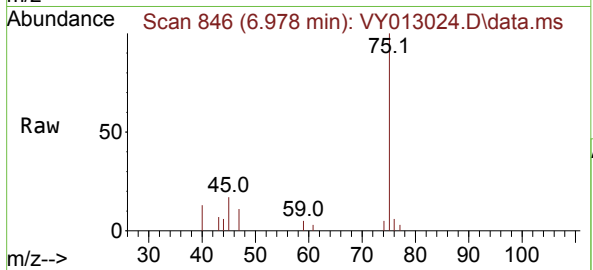




#25
2-Butanone
Concen: 4.092 ug/l
RT: 6.978 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY013024.D
Acq: 21 Mar 2023 14:01

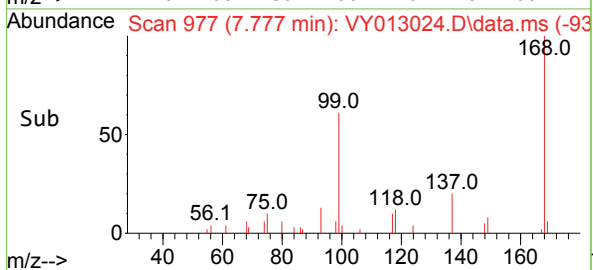
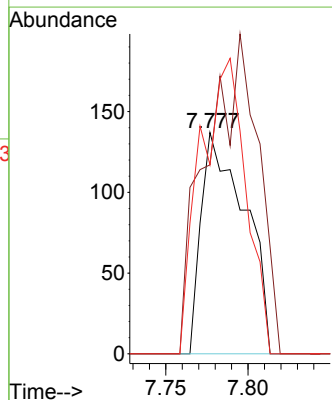
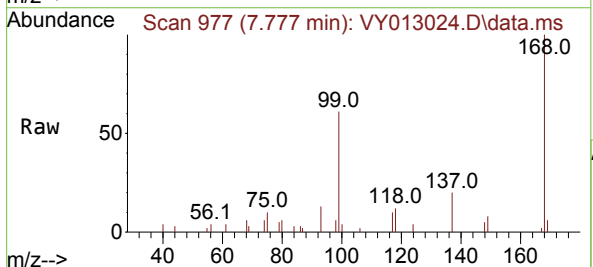
Instrument :
MSVOA_Y
ClientSampleId :
SP-1

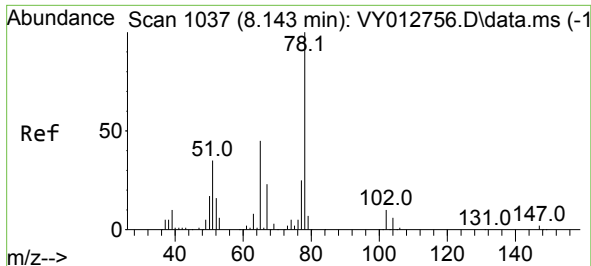
Tgt Ion: 43 Resp: 216
Ion Ratio Lower Upper
43 100
72 0.0 21.0 31.4#



#31
Cyclohexane
Concen: 1.217 ug/l
RT: 7.777 min Scan# 977
Delta R.T. -0.012 min
Lab File: VY013024.D
Acq: 21 Mar 2023 14:01

Tgt Ion: 56 Resp: 253
Ion Ratio Lower Upper
56 100
69 85.4 25.7 38.5#
84 85.4 64.3 96.5

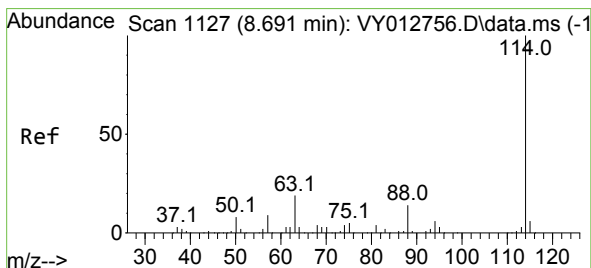
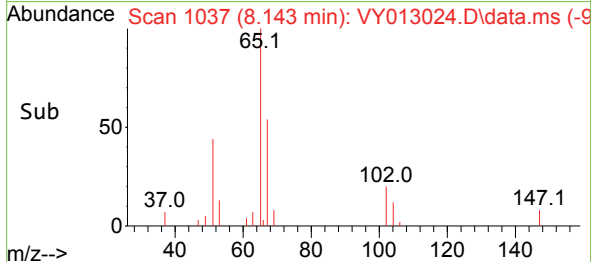
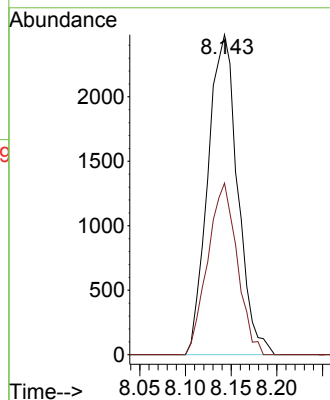
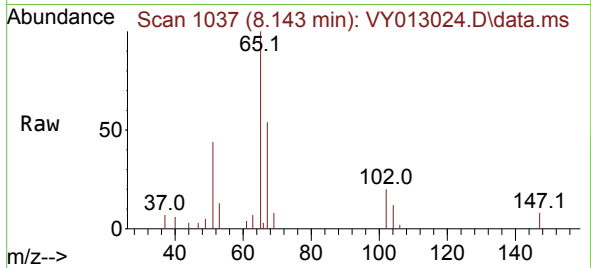




#33
 1,2-Dichloroethane-d4
 Concen: 51.966 ug/l
 RT: 8.143 min Scan# 1037
 Delta R.T. -0.000 min
 Lab File: VY013024.D
 Acq: 21 Mar 2023 14:01

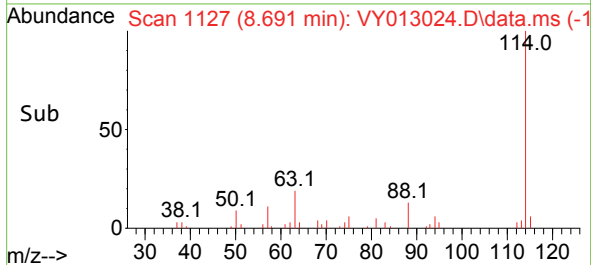
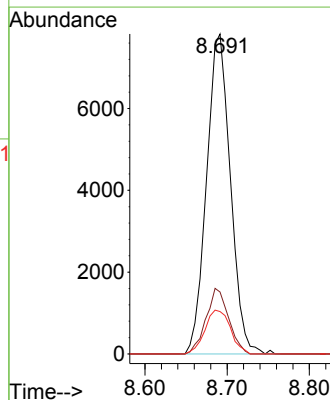
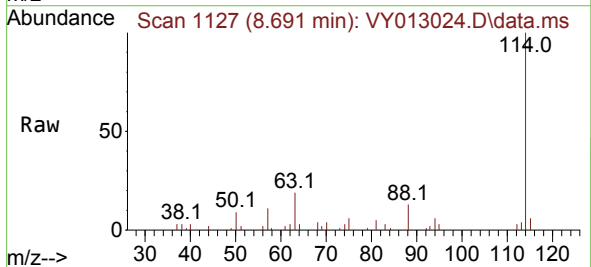
Instrument :
 MSVOA_Y
 ClientSampleId :
 SP-1

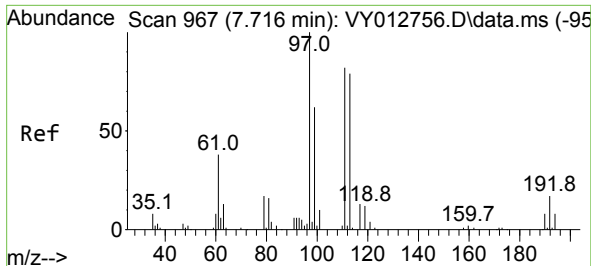
Tgt Ion: 65 Resp: 5643
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.691 min Scan# 1127
 Delta R.T. 0.000 min
 Lab File: VY013024.D
 Acq: 21 Mar 2023 14:01

Tgt Ion: 114 Resp: 15770
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 37.4
 88 13.2 0.0 28.6

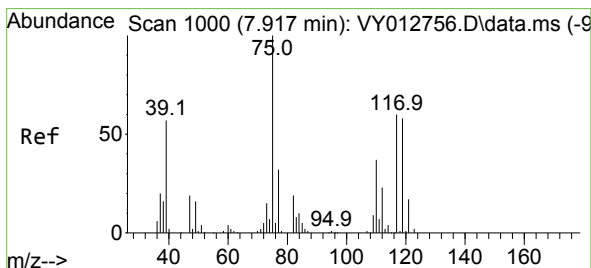
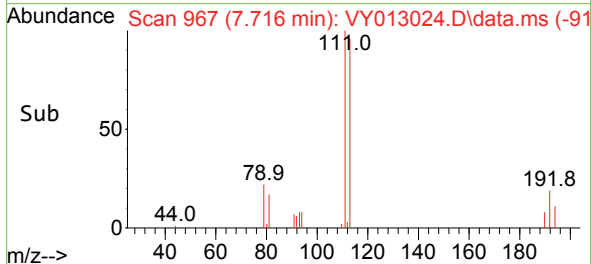
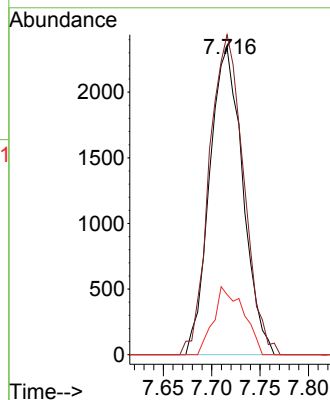
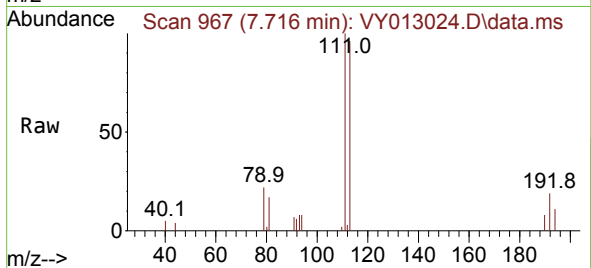




#35
Dibromofluoromethane
Concen: 58.704 ug/l
RT: 7.716 min Scan# 901
Delta R.T. 0.000 min
Lab File: VY013024.D
Acq: 21 Mar 2023 14:01

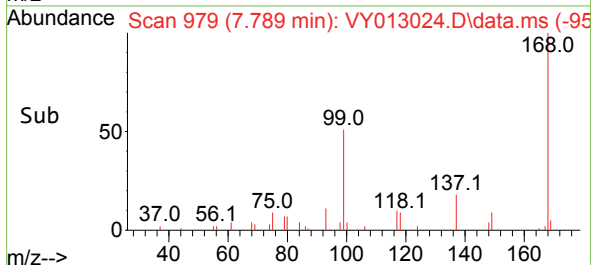
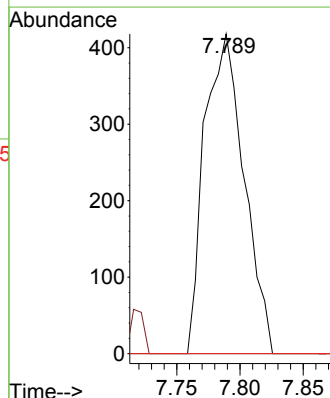
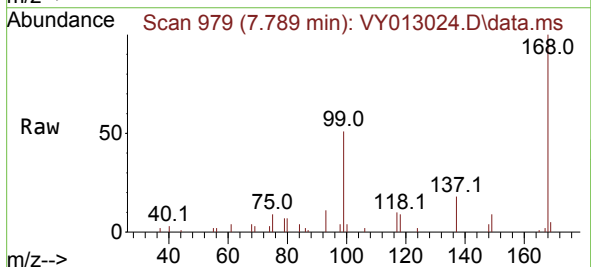
Instrument :
MSVOA_Y
ClientSampleId :
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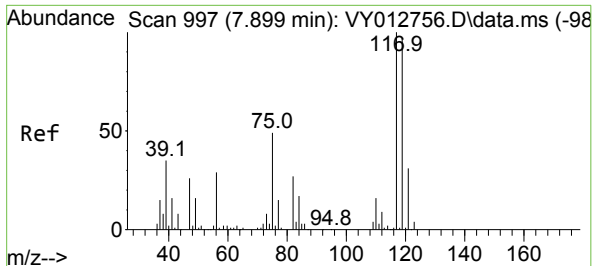
Tgt Ion:113 Resp: 5587
Ion Ratio Lower Upper
113 100
111 107.2 82.2 123.2
192 19.9 16.8 25.2



#36
1,1-Dichloropropene
Concen: 5.693 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.128 min
Lab File: VY013024.D
Acq: 21 Mar 2023 14:01

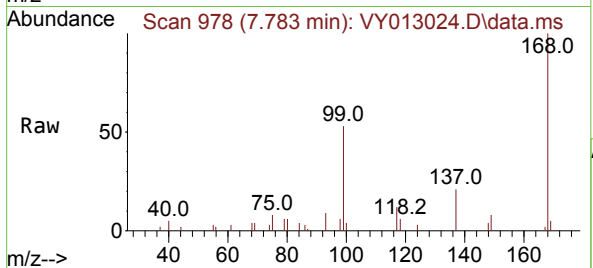
Tgt Ion: 75 Resp: 908
Ion Ratio Lower Upper
75 100
110 0.0 17.8 53.3#
77 0.0 25.0 37.4#



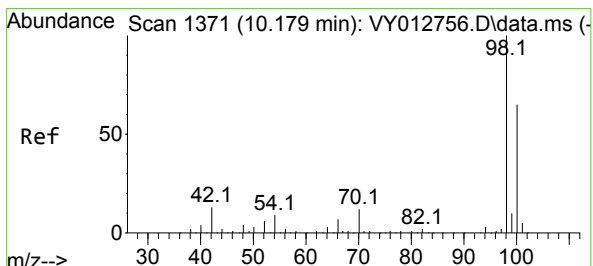
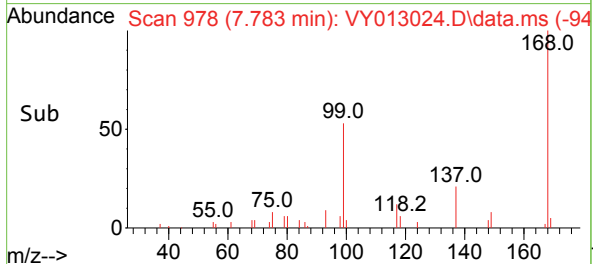
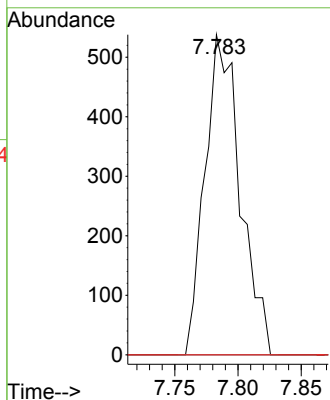


#38
Carbon Tetrachloride
Concen: 6.333 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY013024.D
Acq: 21 Mar 2023 14:01

Instrument :
MSVOA_Y
ClientSampleId :
SP-1

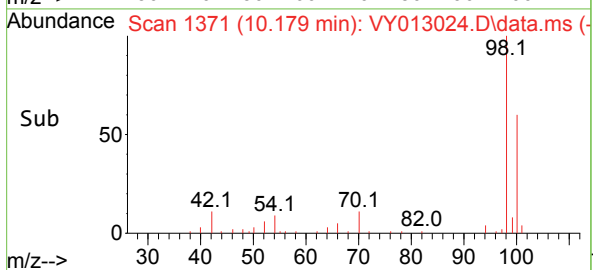
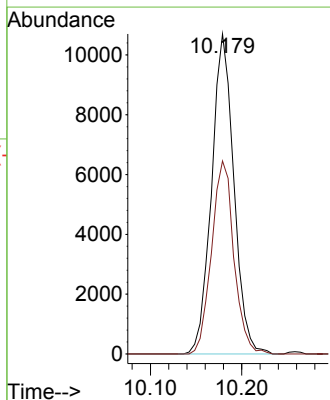
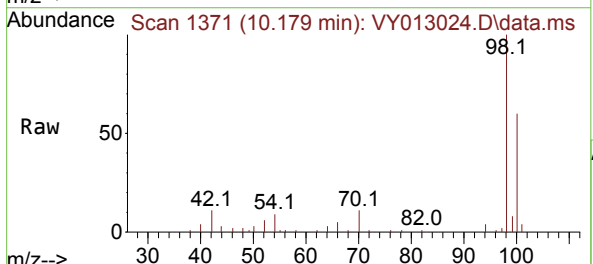


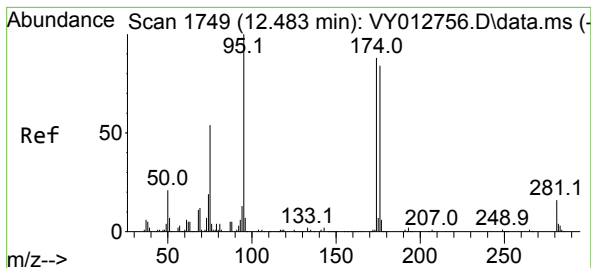
Tgt Ion:117 Resp: 1043
Ion Ratio Lower Upper
117 100
119 0.0 77.2 115.8#
121 0.0 24.7 37.1#



#50
Toluene-d8
Concen: 52.088 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. 0.000 min
Lab File: VY013024.D
Acq: 21 Mar 2023 14:01

Tgt Ion: 98 Resp: 18123
Ion Ratio Lower Upper
98 100
100 60.4 50.9 76.3

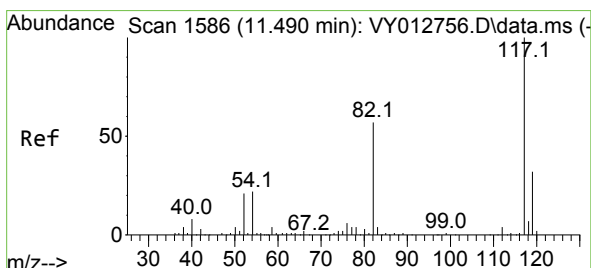
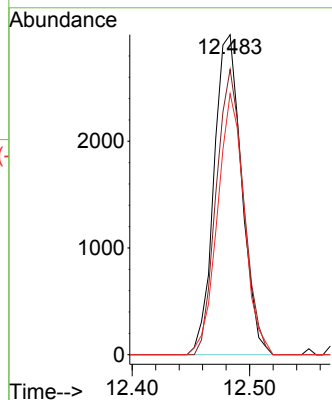
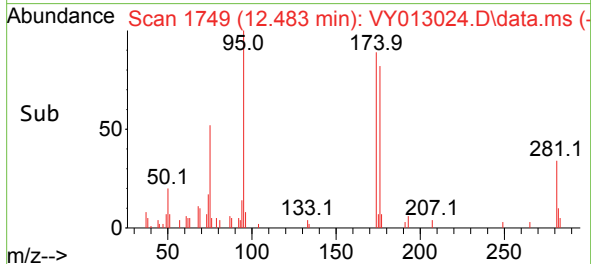
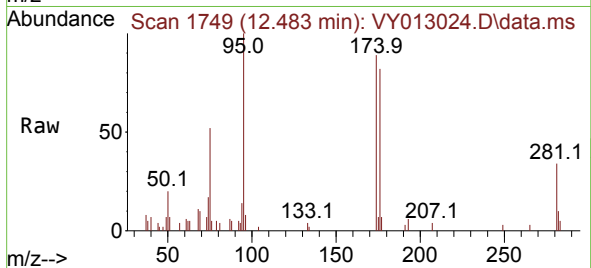




#62
4-Bromofluorobenzene
Concen: 41.751 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VY013024.D
Acq: 21 Mar 2023 14:01

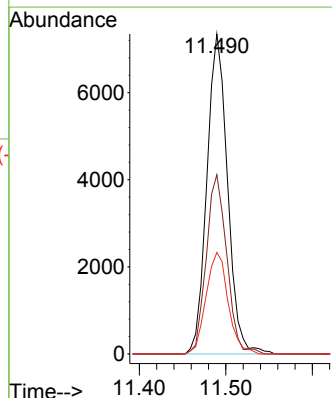
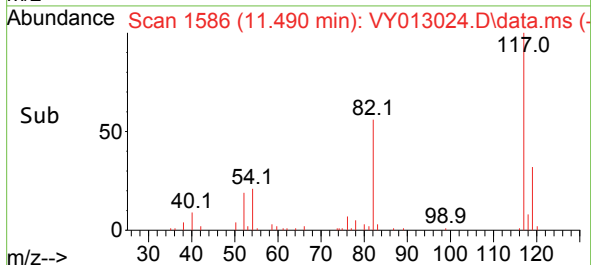
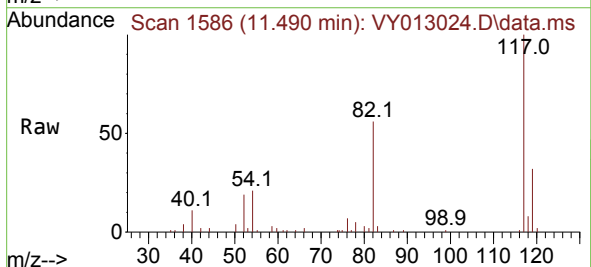
Instrument :
MSVOA_Y
ClientSampleId :
SP-1

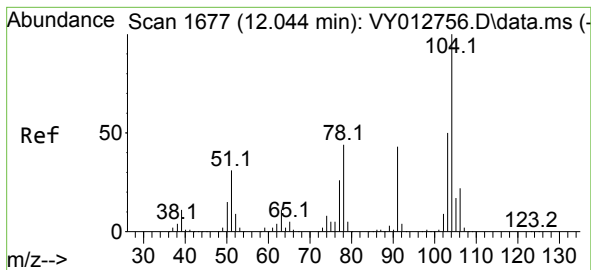
Tgt Ion: 95 Resp: 4903
Ion Ratio Lower Upper
95 100
174 88.1 0.0 176.6
176 79.2 0.0 170.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY013024.D
Acq: 21 Mar 2023 14:01

Tgt Ion: 117 Resp: 12169
Ion Ratio Lower Upper
117 100
82 56.0 45.4 68.0
119 31.7 25.6 38.4





#70

Styrene

Concen: 2.602 ug/l

RT: 12.044 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY013024.D

Acq: 21 Mar 2023 14:01

Instrument :

MSVOA_Y

ClientSampleId :

SP-1

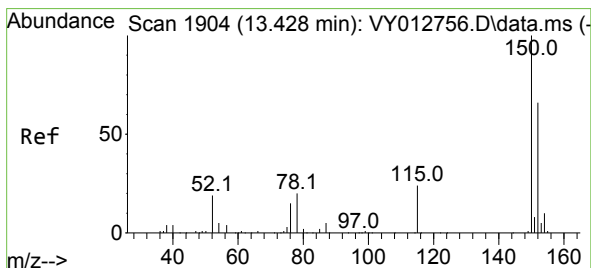
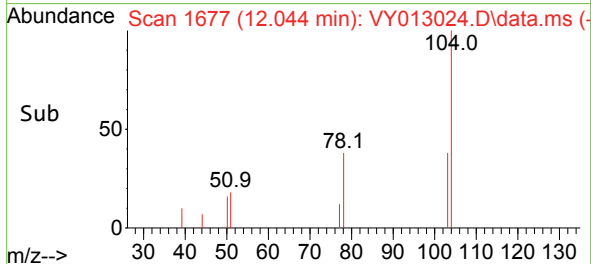
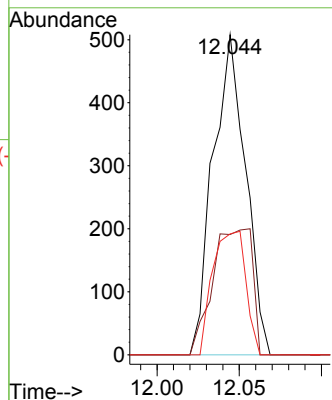
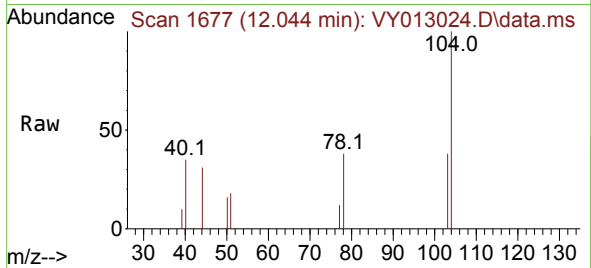
Tgt Ion:104 Resp: 700

Ion Ratio Lower Upper

104 100

78 48.0 39.2 58.8

103 39.1 43.7 65.5#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. -0.006 min

Lab File: VY013024.D

Acq: 21 Mar 2023 14:01

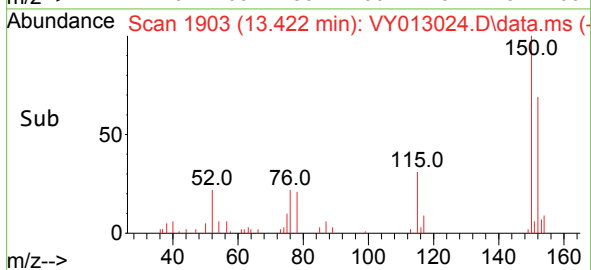
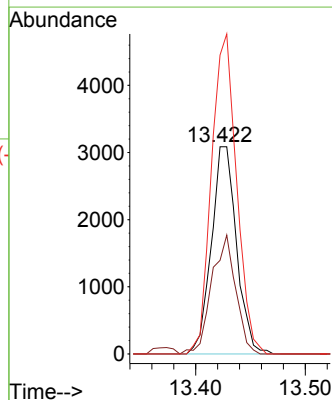
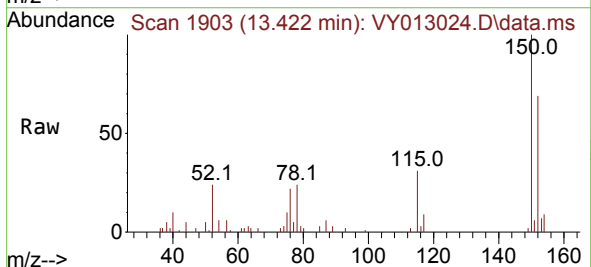
Tgt Ion:152 Resp: 4934

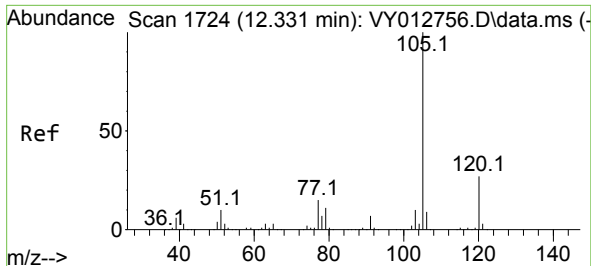
Ion Ratio Lower Upper

152 100

115 54.7 27.1 81.3

150 153.3 0.0 347.8

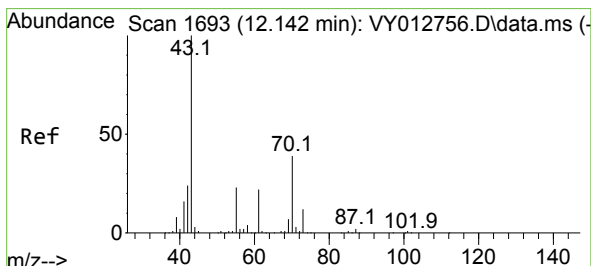
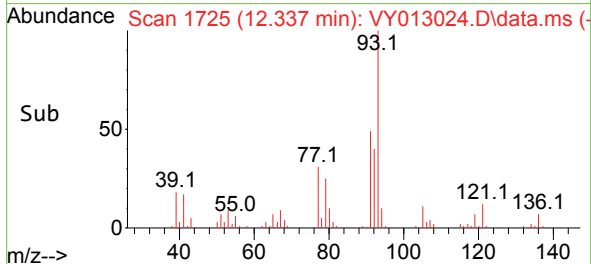
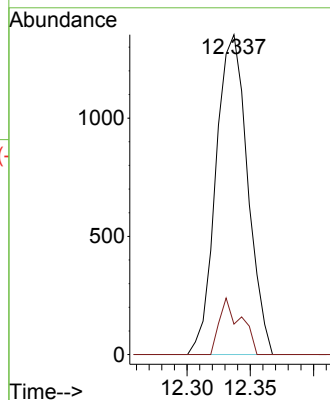
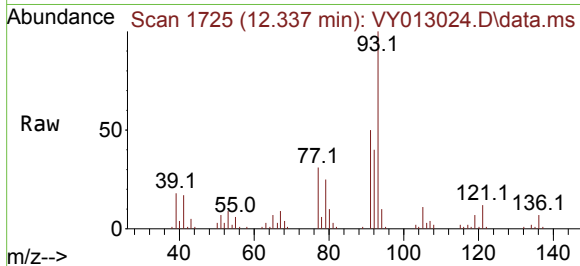




#73
Isopropylbenzene
Concen: 6.746 ug/l
RT: 12.337 min Scan# 1724
Delta R.T. 0.006 min
Lab File: VY013024.D
Acq: 21 Mar 2023 14:01

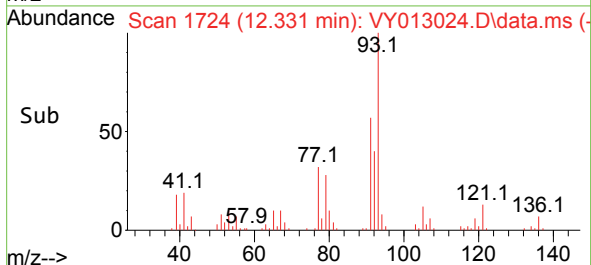
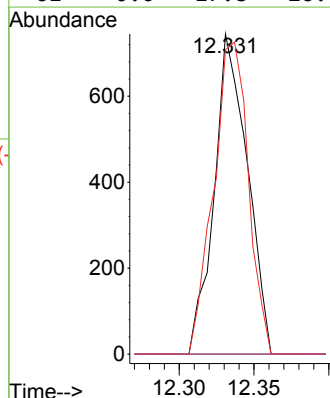
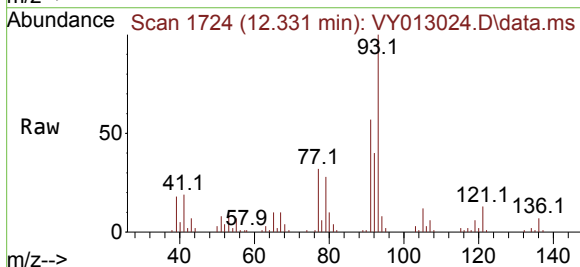
Instrument :
MSVOA_Y
ClientSampleId :
SP-1

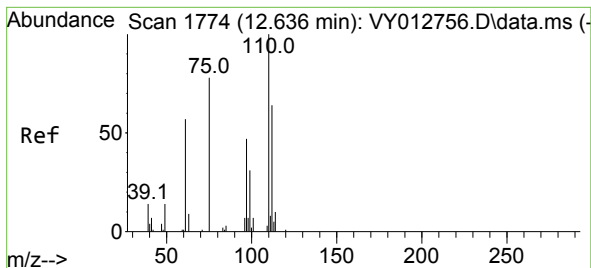
Tgt Ion:105 Resp: 2359
Ion Ratio Lower Upper
105 100
120 12.1 13.4 40.2#



#74
N-ethyl acetate
Concen: 10.416 ug/l
RT: 12.331 min Scan# 1724
Delta R.T. 0.189 min
Lab File: VY013024.D
Acq: 21 Mar 2023 14:01

Tgt Ion: 43 Resp: 1146
Ion Ratio Lower Upper
43 100
70 0.0 31.6 47.4#
55 102.5 18.8 28.2#
61 0.0 17.8 26.8#





#76

1,2,3-Trichloropropane

Concen: 42.617 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.152 min

Lab File: VY013024.D

Acq: 21 Mar 2023 14:01

Instrument :

MSVOA_Y

ClientSampleId :

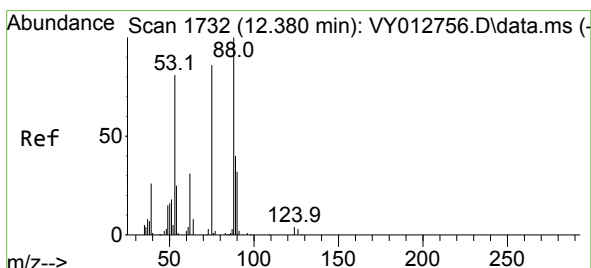
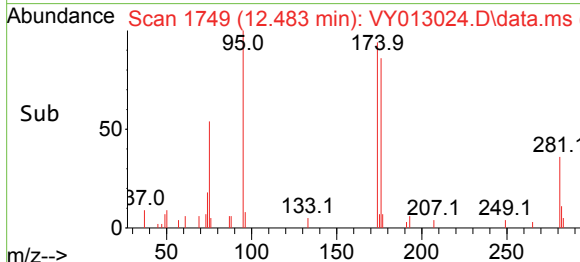
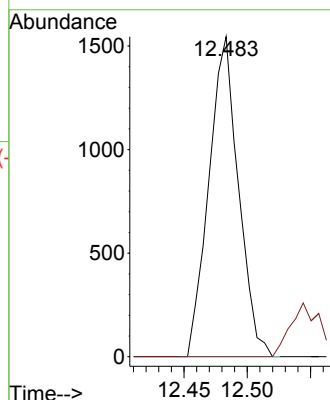
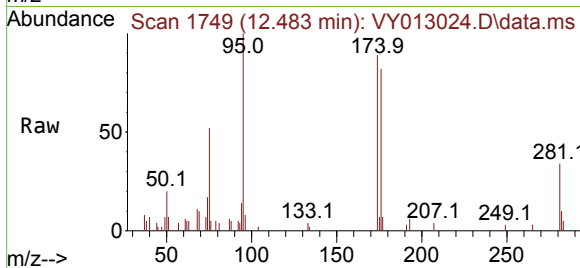
SP-1

Tgt Ion: 75 Resp: 2511

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



#81

trans-1,4-Dichloro-2-butene

Concen: 88.304 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.104 min

Lab File: VY013024.D

Acq: 21 Mar 2023 14:01

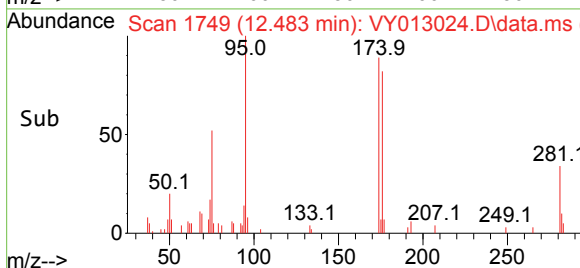
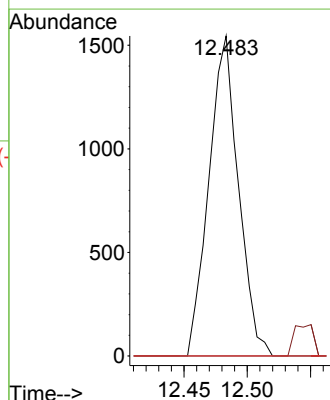
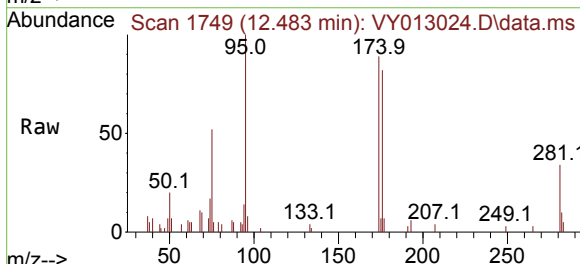
Tgt Ion: 75 Resp: 2511

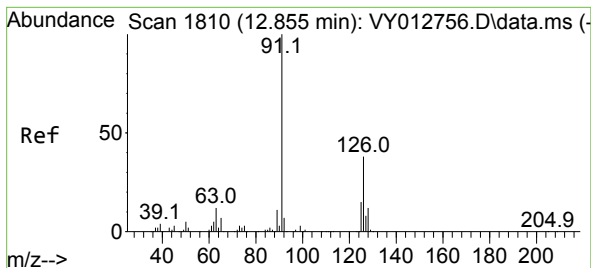
Ion Ratio Lower Upper

75 100

53 0.0 73.4 110.0#

89 0.0 36.6 55.0#





#82

4-Chlorotoluene

Concen: 9.547 ug/l

RT: 12.892 min Scan# 1816

Delta R.T. 0.037 min

Lab File: VY013024.D

Acq: 21 Mar 2023 14:01

Instrument :

MSVOA_Y

ClientSampleId :

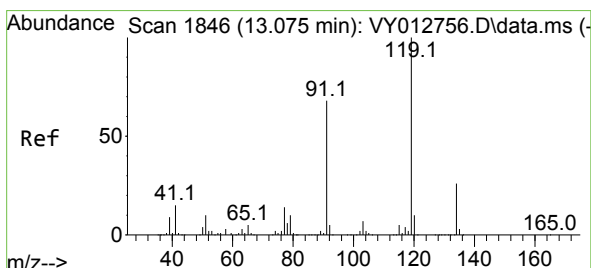
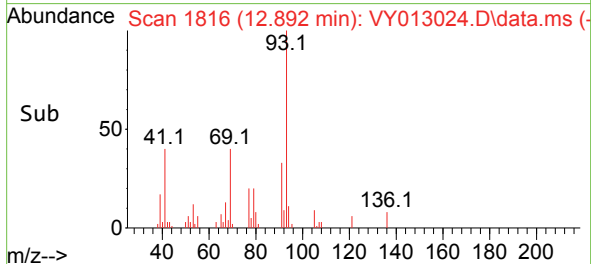
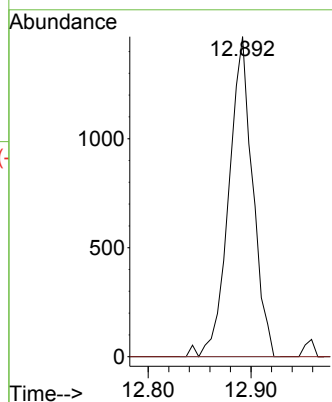
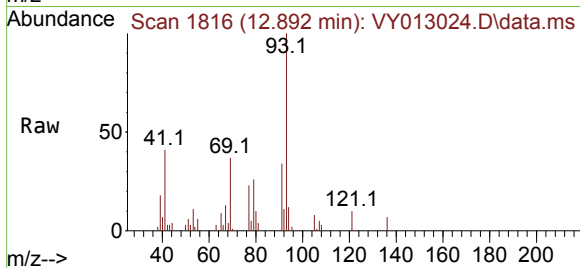
SP-1

Tgt Ion: 91 Resp: 2368

Ion Ratio Lower Upper

91 100

126 0.0 17.7 53.1#



#83

tert-Butylbenzene

Concen: 1.763 ug/l

RT: 13.142 min Scan# 1857

Delta R.T. 0.067 min

Lab File: VY013024.D

Acq: 21 Mar 2023 14:01

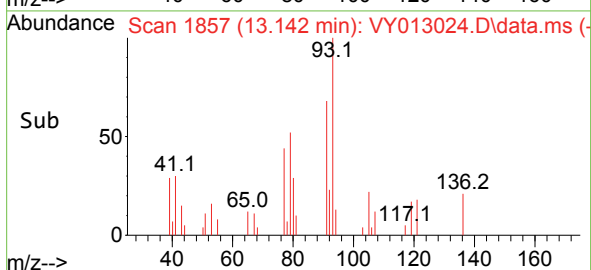
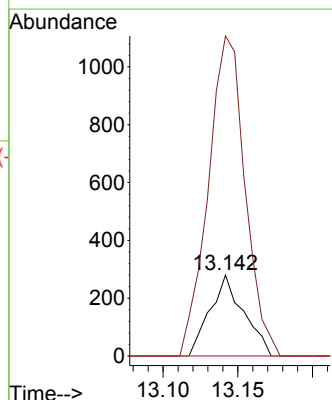
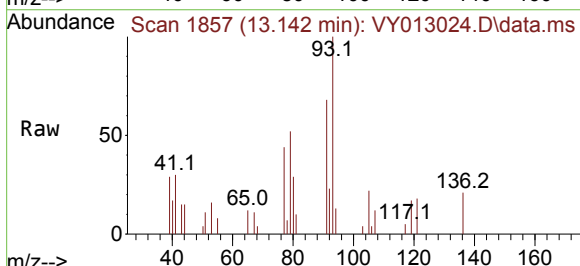
Tgt Ion: 119 Resp: 439

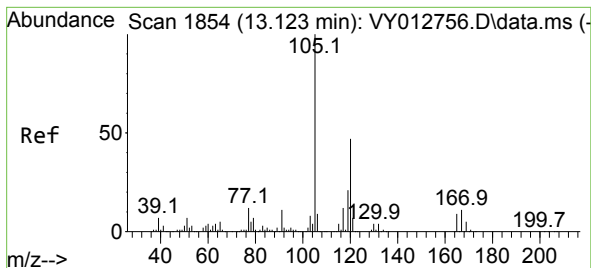
Ion Ratio Lower Upper

119 100

91 432.6 32.8 98.3#

134 0.0 13.6 40.8#





#84

1,2,4-Trimethylbenzene

Concen: 2.300 ug/l

RT: 13.142 min Scan# 1854

Delta R.T. 0.018 min

Lab File: VY013024.D

Acq: 21 Mar 2023 14:01

Instrument :

MSVOA_Y

ClientSampleId :

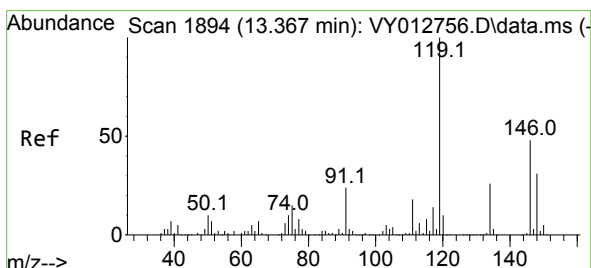
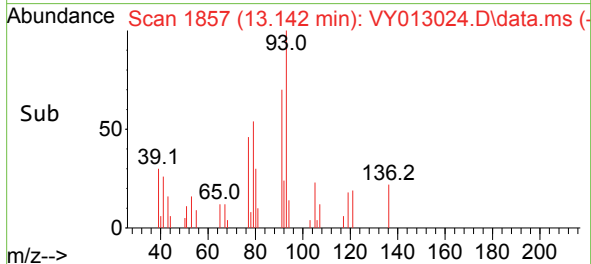
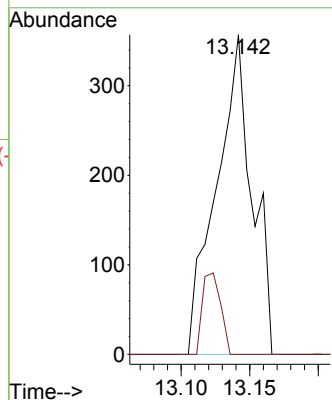
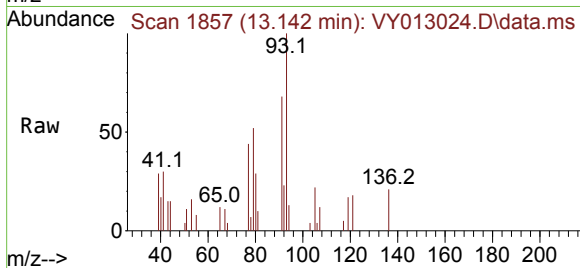
SP-1

Tgt Ion:105 Resp: 649

Ion Ratio Lower Upper

105 100

120 12.9 23.0 69.0#



#86

p-Isopropyltoluene

Concen: 6.121 ug/l

RT: 13.367 min Scan# 1894

Delta R.T. 0.000 min

Lab File: VY013024.D

Acq: 21 Mar 2023 14:01

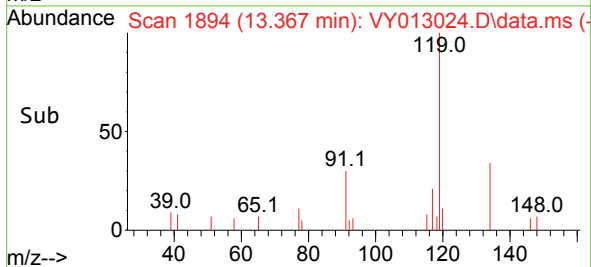
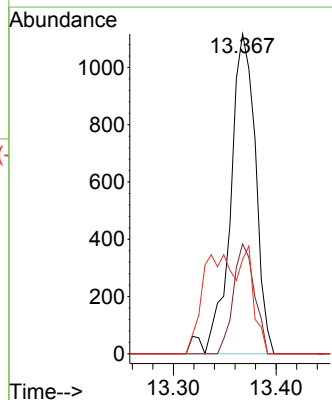
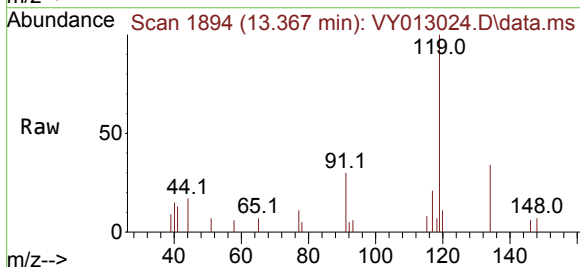
Tgt Ion:119 Resp: 1901

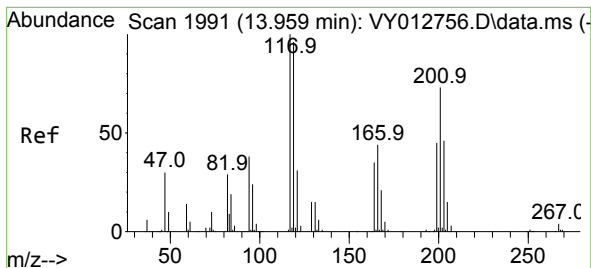
Ion Ratio Lower Upper

119 100

134 29.0 13.2 39.6

91 0.0 11.8 35.3#





#90

Hexachloroethane

Concen: 1.175 ug/l

RT: 14.038 min Scan# 20

Delta R.T. 0.079 min

Lab File: VY013024.D

Acq: 21 Mar 2023 14:01

Instrument :

MSVOA_Y

ClientSampleId :

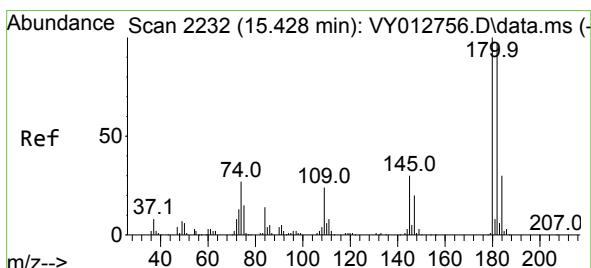
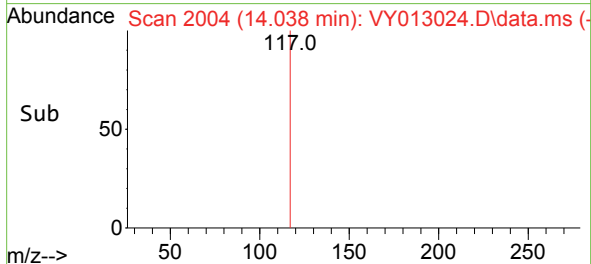
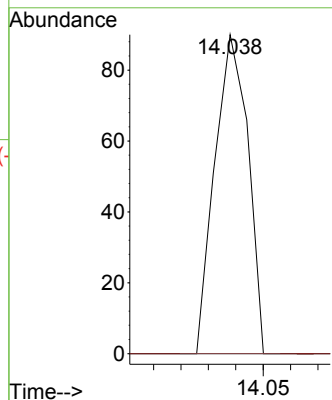
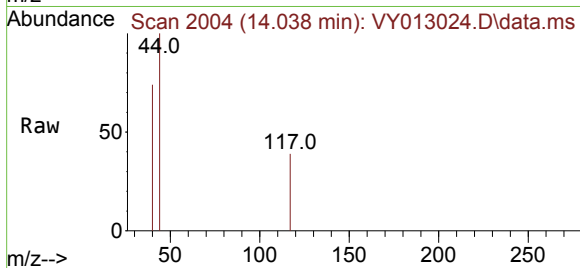
SP-1

Tgt Ion:117 Resp: 76

Ion Ratio Lower Upper

117 100

201 0.0 39.4 118.1#



#96

1,2,3-Trichlorobenzene

Concen: 1.480 ug/l

RT: 15.422 min Scan# 2231

Delta R.T. -0.006 min

Lab File: VY013024.D

Acq: 21 Mar 2023 14:01

Tgt Ion:180 Resp: 120

Ion Ratio Lower Upper

180 100

182 23.3 47.4 142.3#

145 0.0 15.3 45.8#

