

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041123\
 Data File : VY013255.D
 Acq On : 11 Apr 2023 20:07
 Operator : KP/MD
 Sample : 02232-01
 Misc : 4.36g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 20230203-3-1

Quant Time: Apr 12 01:38:45 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y041123S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 11 11:59:49 2023
 Response via : Initial Calibration

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

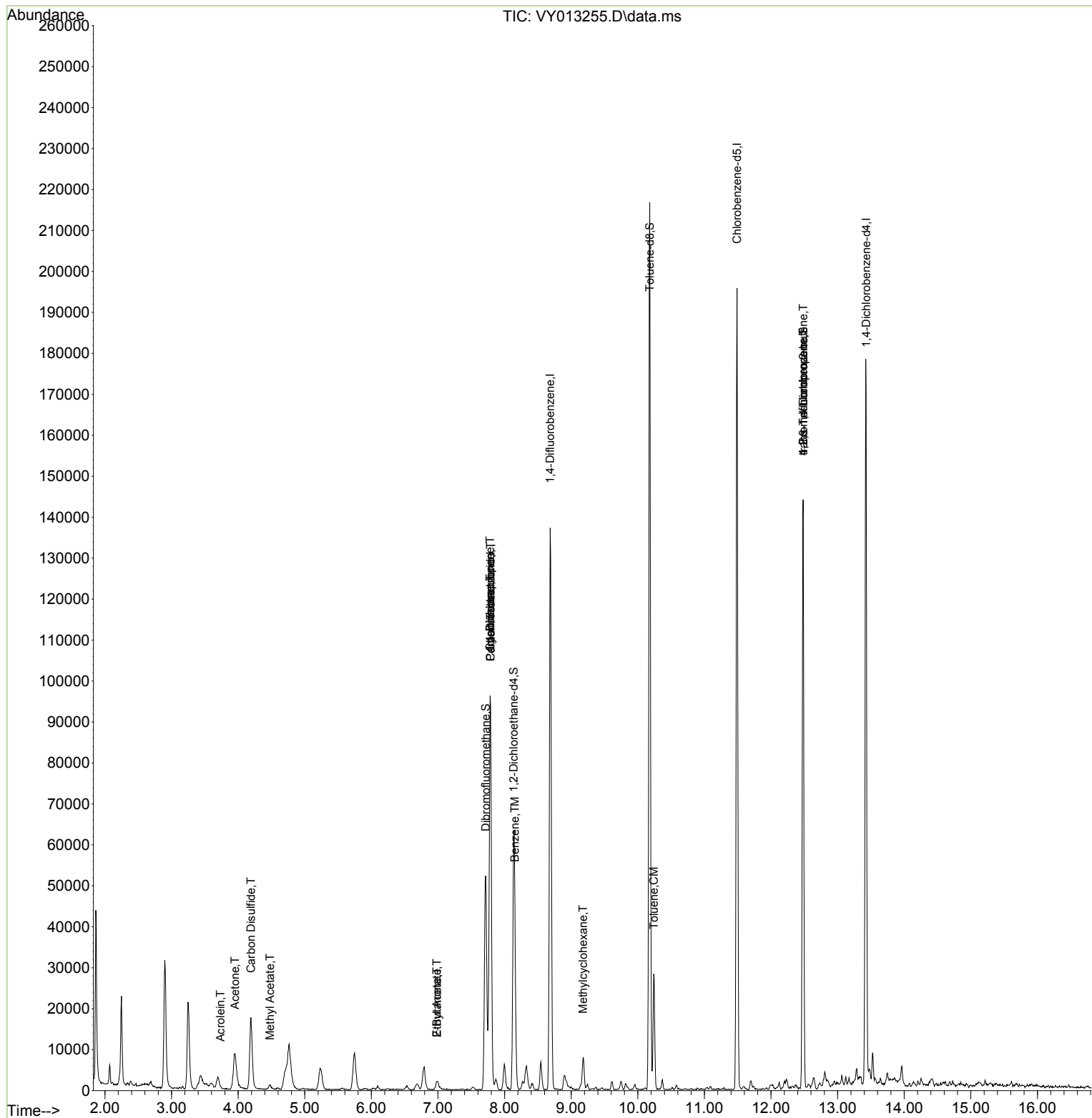
Internal Standards						
1) Pentafluorobenzene	7.789	168	67313	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	112066	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	97721	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	44582	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	46879	61.930	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 123.860%	
35) Dibromofluoromethane	7.716	113	36630	54.682	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 109.360%	
50) Toluene-d8	10.179	98	135182	57.639	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 115.280%	
62) 4-Bromofluorobenzene	12.483	95	40692	48.587	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 97.180%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.113	50	543	Below Cal		90
5) Bromomethane	2.650	94	19	Below Cal	#	1
13) Acrolein	3.735	56	113	1.519	ug/l #	14
16) Acetone	3.954	43	18012	58.473	ug/l	100
17) Carbon Disulfide	4.192	76	34208	30.526	ug/l	99
18) Methyl Acetate	4.478	43	2560	2.799	ug/l #	78
20) Methylene Chloride	4.710	84	1729	Below Cal		90
25) 2-Butanone	6.984	43	3274	1.645	ug/l #	82
31) Cyclohexane	7.783	56	5110	5.310	ug/l #	73
36) 1,1-Dichloropropene	7.783	75	5415	5.878	ug/l #	49
37) Ethyl Acetate	6.984	43	3274	3.839	ug/l #	69
38) Carbon Tetrachloride	7.789	117	6946	6.475	ug/l #	16
39) Methylcyclohexane	9.179	83	2719	2.808	ug/l	93
40) Benzene	8.155	78	12215	4.501	ug/l	95
52) Toluene	10.240	92	11106	6.526	ug/l	98
76) 1,2,3-Trichloropropane	12.483	75	22177	40.869	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.483	75	22177	84.281	ug/l #	13

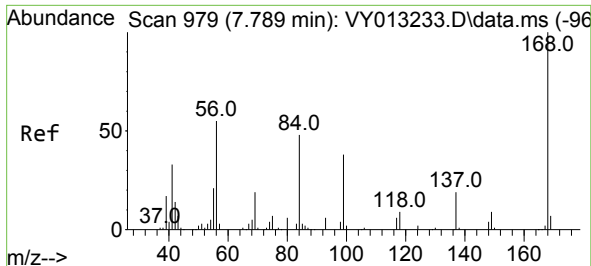
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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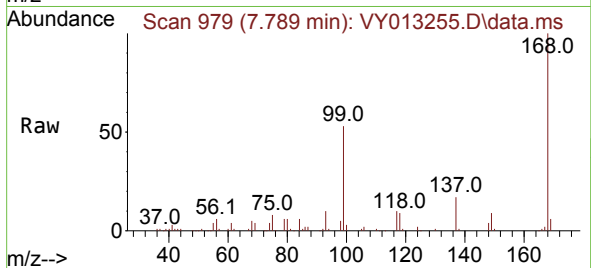
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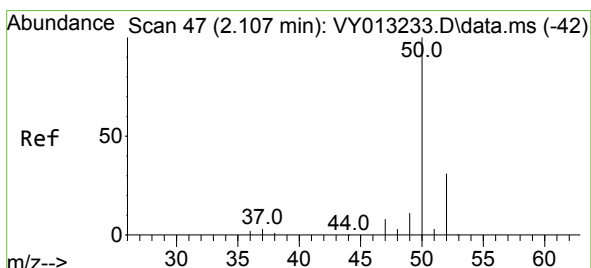
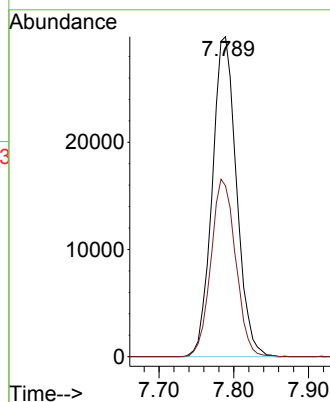
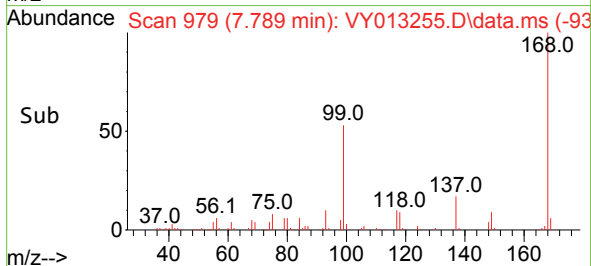


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY013255.D
Acq: 11 Apr 2023 20:07

Instrument :
MSVOA_Y
ClientSampleId :
20230203-3-1

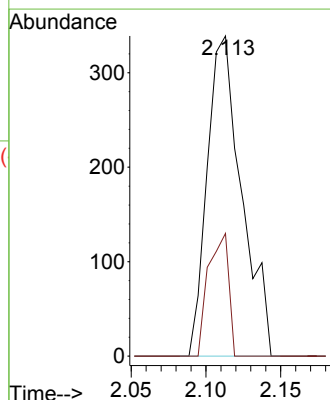
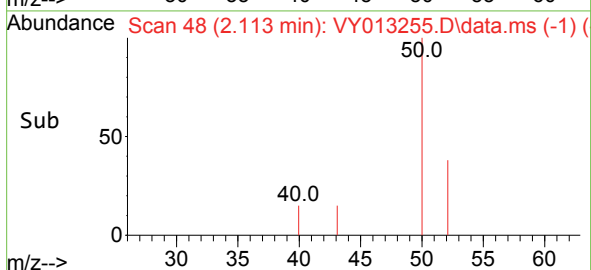
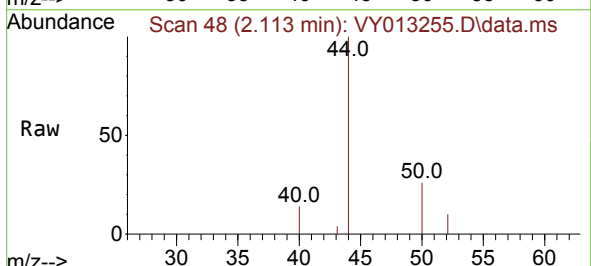


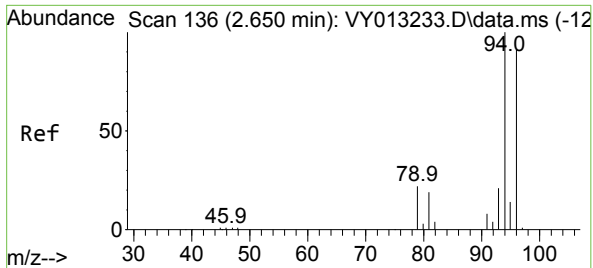
Tgt Ion:168 Resp: 67313
Ion Ratio Lower Upper
168 100
99 53.4 41.7 62.5



#3
Chloromethane
Concen: Below Cal
RT: 2.113 min Scan# 48
Delta R.T. 0.006 min
Lab File: VY013255.D
Acq: 11 Apr 2023 20:07

Tgt Ion: 50 Resp: 543
Ion Ratio Lower Upper
50 100
52 38.3 26.0 39.0

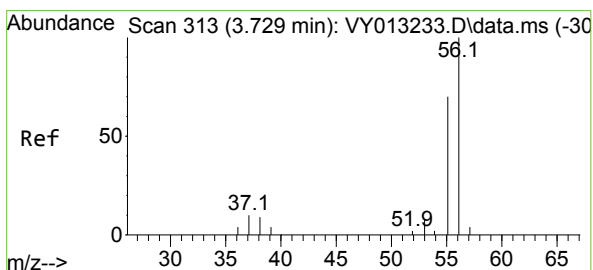
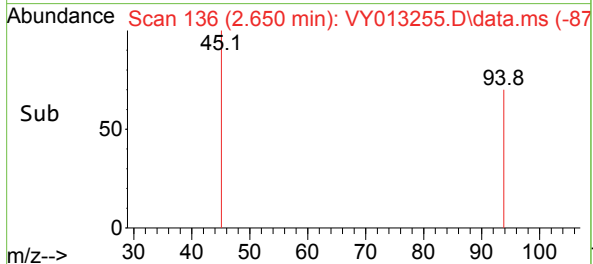
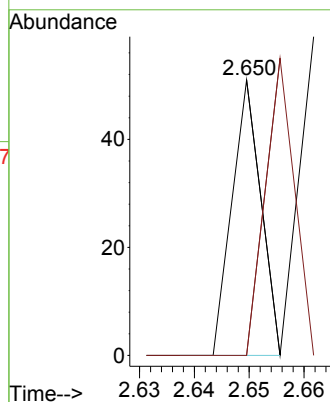
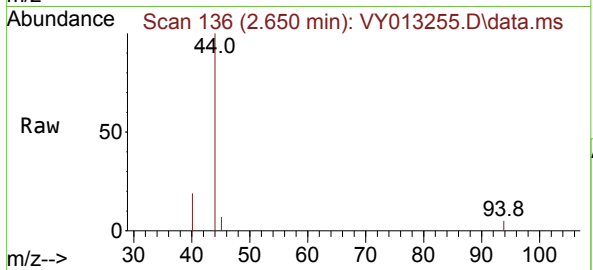




#5
Bromomethane
Concen: Below Cal
RT: 2.650 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY013255.D
Acq: 11 Apr 2023 20:07

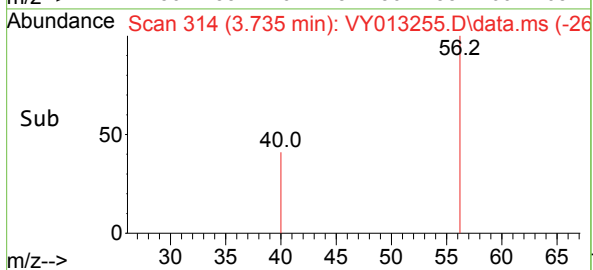
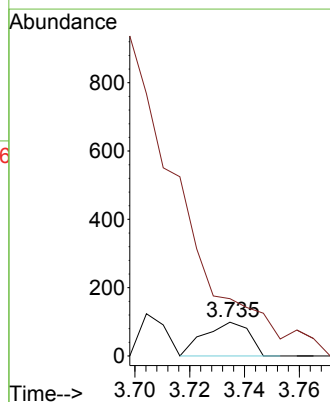
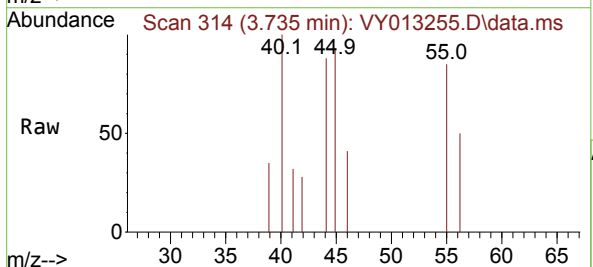
Instrument :
MSVOA_Y
ClientSampleId :
20230203-3-1

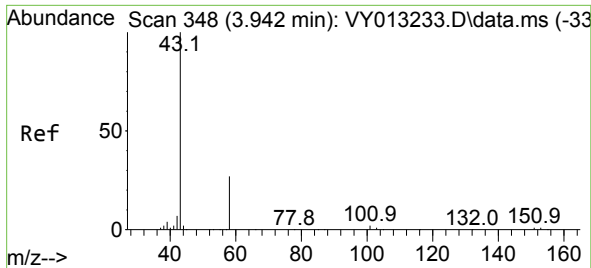
Tgt Ion: 94 Resp: 19
Ion Ratio Lower Upper
94 100
96 0.0 80.3 120.5#



#13
Acrolein
Concen: 1.519 ug/l
RT: 3.735 min Scan# 314
Delta R.T. 0.006 min
Lab File: VY013255.D
Acq: 11 Apr 2023 20:07

Tgt Ion: 56 Resp: 113
Ion Ratio Lower Upper
56 100
55 0.0 56.8 85.2#

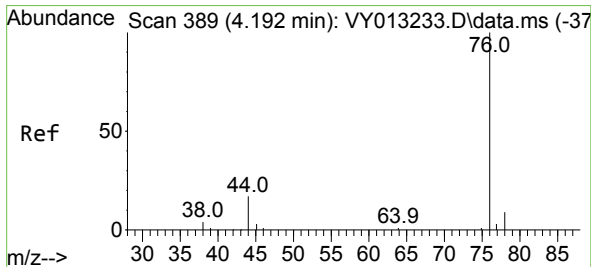
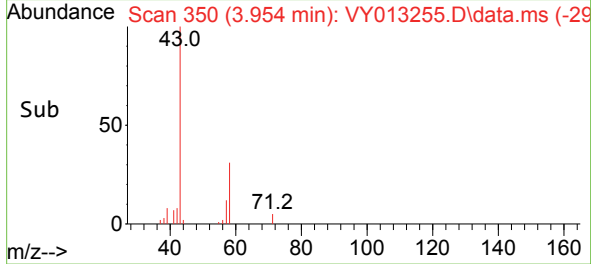
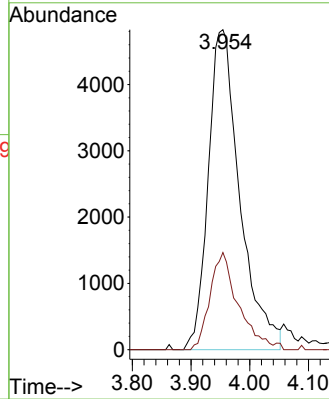
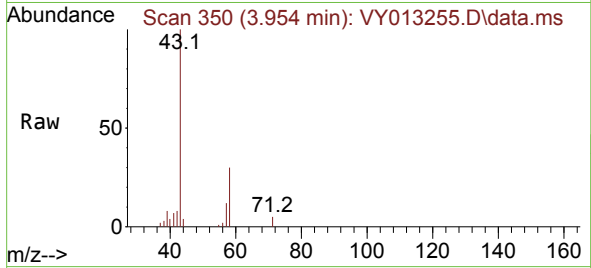




#16
Acetone
Concen: 58.473 ug/l
RT: 3.954 min Scan# 31
Delta R.T. 0.012 min
Lab File: VY013255.D
Acq: 11 Apr 2023 20:07

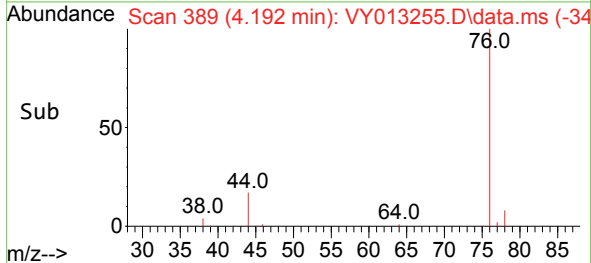
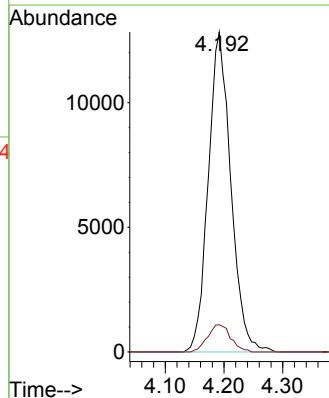
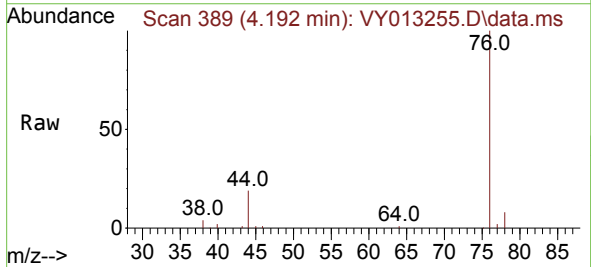
Instrument :
MSVOA_Y
ClientSampleId :
20230203-3-1

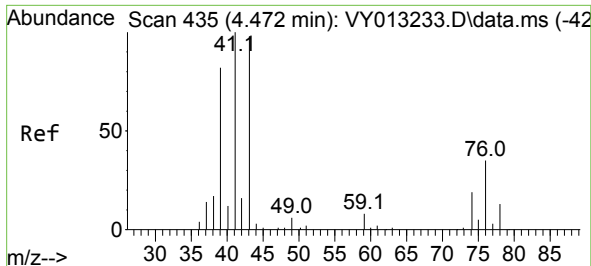
Tgt Ion: 43 Resp: 18012
Ion Ratio Lower Upper
43 100
58 30.4 24.2 36.2



#17
Carbon Disulfide
Concen: 30.526 ug/l
RT: 4.192 min Scan# 389
Delta R.T. -0.000 min
Lab File: VY013255.D
Acq: 11 Apr 2023 20:07

Tgt Ion: 76 Resp: 34208
Ion Ratio Lower Upper
76 100
78 8.5 7.1 10.7





#18

Methyl Acetate

Concen: 2.799 ug/l

RT: 4.478 min Scan# 41

Delta R.T. 0.006 min

Lab File: VY013255.D

Acq: 11 Apr 2023 20:07

Instrument :

MSVOA_Y

ClientSampleId :

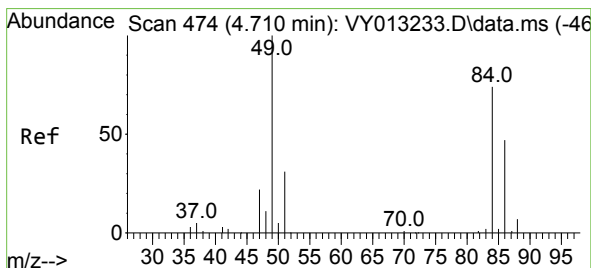
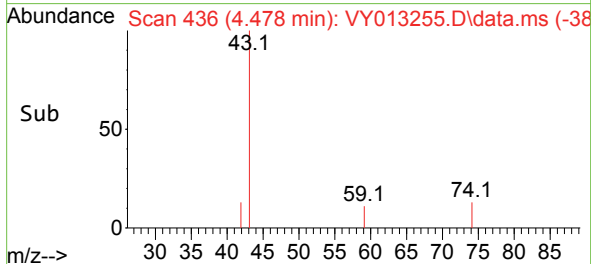
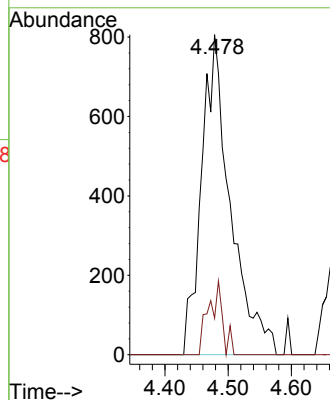
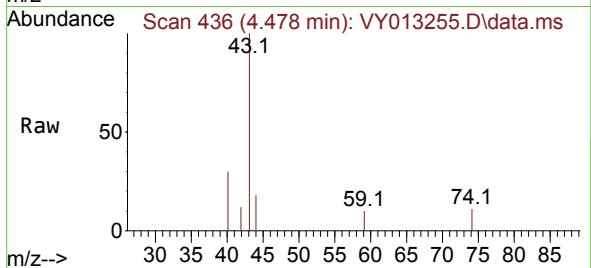
20230203-3-1

Tgt Ion: 43 Resp: 2560

Ion Ratio Lower Upper

43 100

74 11.3 17.4 26.0#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.710 min Scan# 474

Delta R.T. 0.000 min

Lab File: VY013255.D

Acq: 11 Apr 2023 20:07

Tgt Ion: 84 Resp: 1729

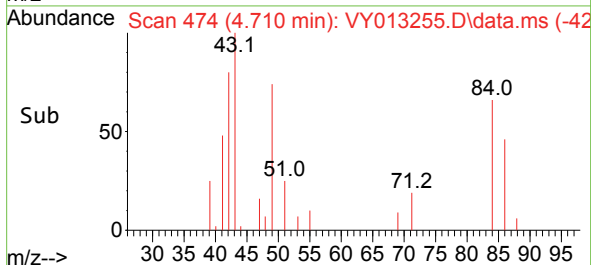
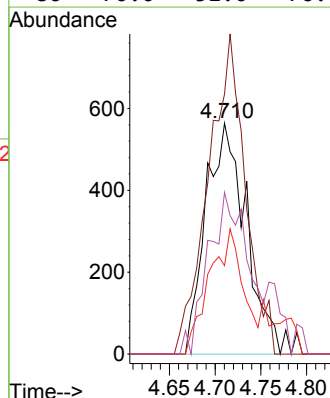
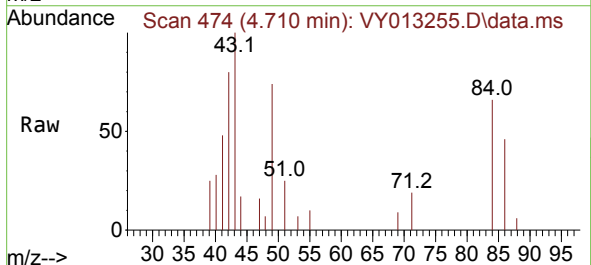
Ion Ratio Lower Upper

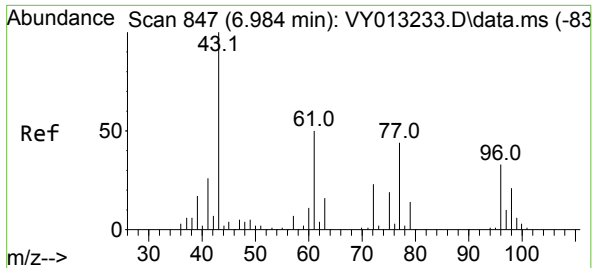
84 100

49 112.6 102.6 154.0

51 38.3 31.9 47.9

86 70.0 51.0 76.6

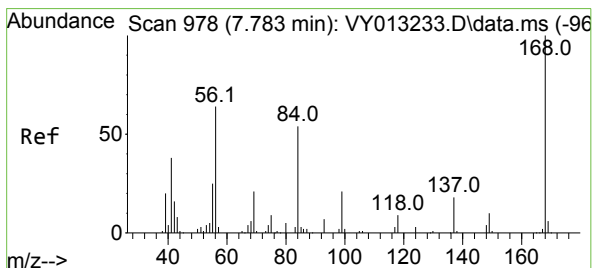
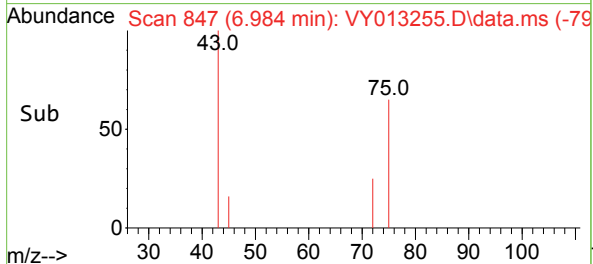
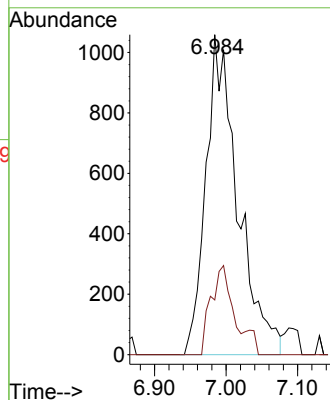
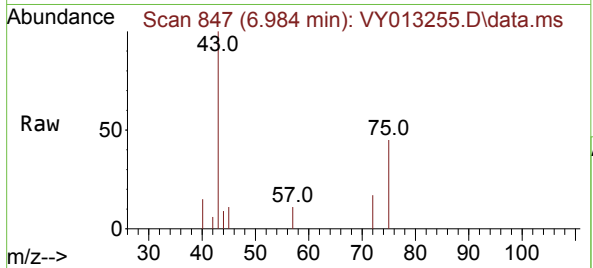




#25
2-Butanone
Concen: 1.645 ug/l
RT: 6.984 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY013255.D
Acq: 11 Apr 2023 20:07

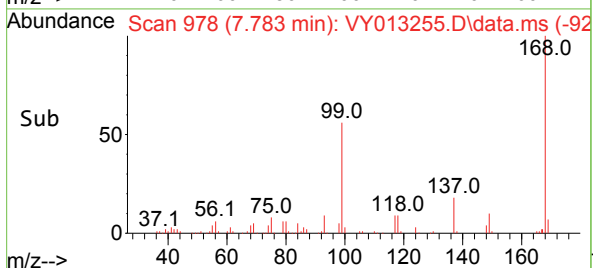
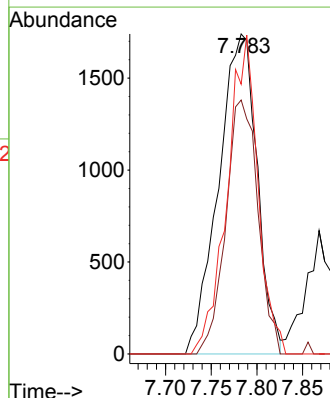
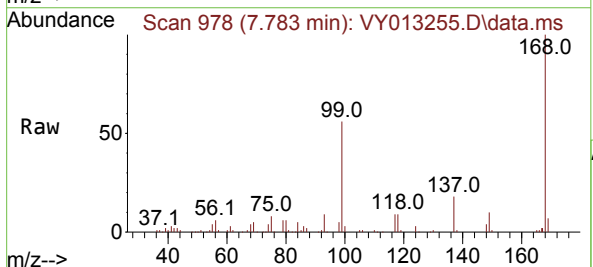
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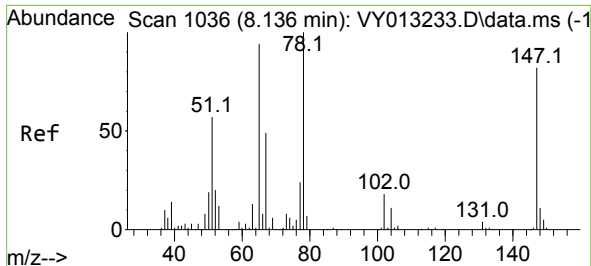
Tgt Ion: 43 Resp: 3274
Ion Ratio Lower Upper
43 100
72 17.1 21.0 31.4#



#31
Cyclohexane
Concen: 5.310 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.000 min
Lab File: VY013255.D
Acq: 11 Apr 2023 20:07

Tgt Ion: 56 Resp: 5110
Ion Ratio Lower Upper
56 100
69 79.4 25.7 38.5#
84 84.3 64.3 96.5





#33

1,2-Dichloroethane-d4

Concen: 61.930 ug/l

RT: 8.136 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VY013255.D

Acq: 11 Apr 2023 20:07

Instrument :

MSVOA_Y

ClientSampleId :

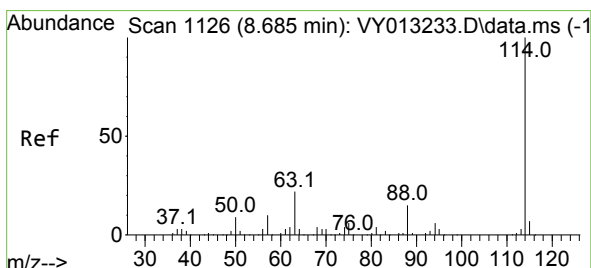
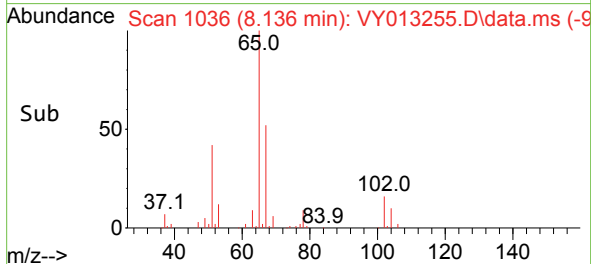
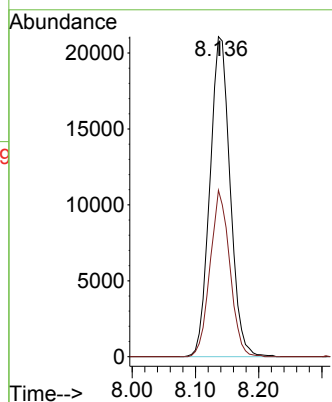
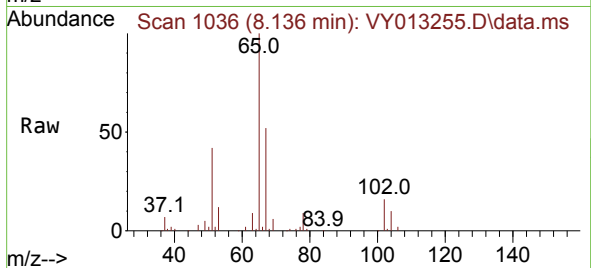
20230203-3-1

Tgt Ion: 65 Resp: 46879

Ion Ratio Lower Upper

65 100

67 50.5 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VY013255.D

Acq: 11 Apr 2023 20:07

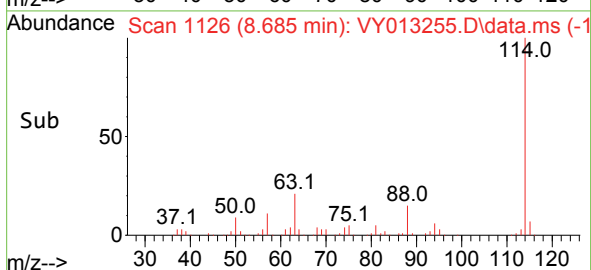
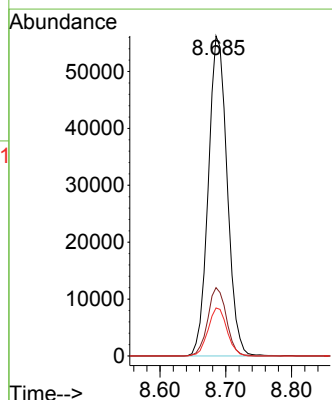
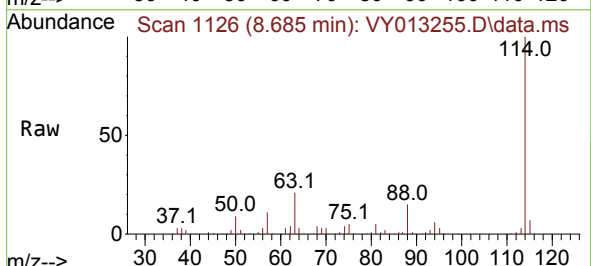
Tgt Ion: 114 Resp: 112066

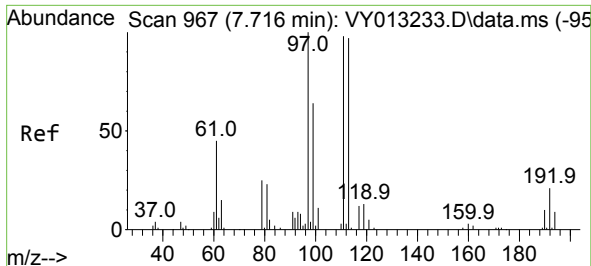
Ion Ratio Lower Upper

114 100

63 21.3 0.0 37.4

88 15.0 0.0 28.6

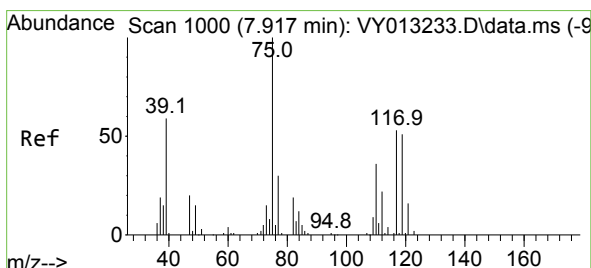
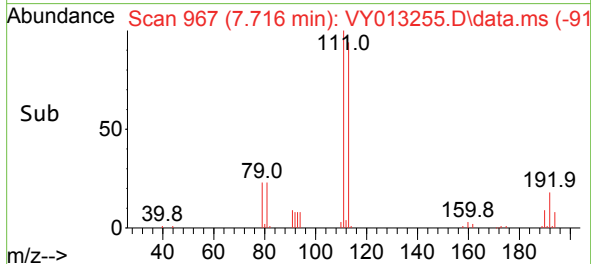
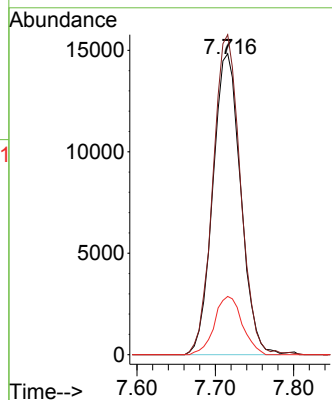
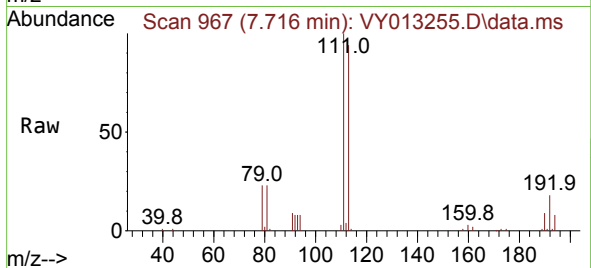




#35
 Dibromofluoromethane
 Concen: 54.682 ug/l
 RT: 7.716 min Scan# 91
 Delta R.T. -0.000 min
 Lab File: VY013255.D
 Acq: 11 Apr 2023 20:07

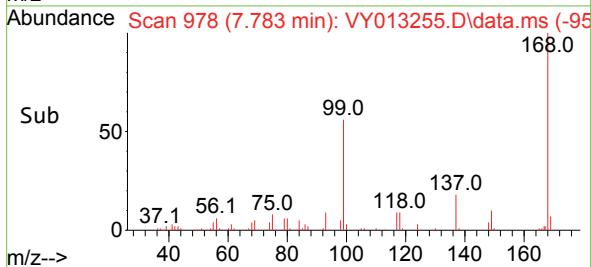
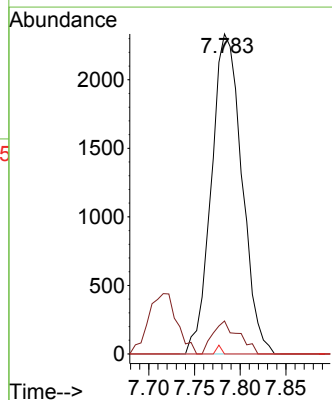
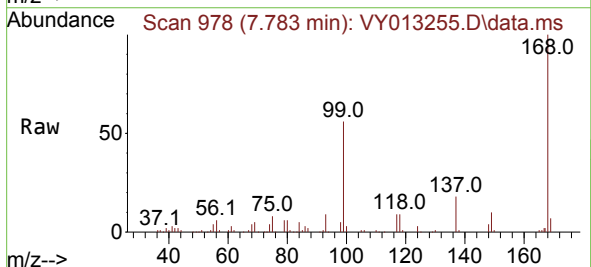
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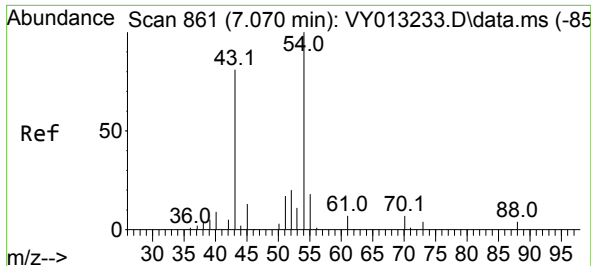
Tgt Ion:113 Resp: 36630
 Ion Ratio Lower Upper
 113 100
 111 105.0 82.2 123.2
 192 19.3 16.8 25.2



#36
 1,1-Dichloropropene
 Concen: 5.878 ug/l
 RT: 7.783 min Scan# 978
 Delta R.T. -0.134 min
 Lab File: VY013255.D
 Acq: 11 Apr 2023 20:07

Tgt Ion: 75 Resp: 5415
 Ion Ratio Lower Upper
 75 100
 110 8.7 17.8 53.3#
 77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 3.839 ug/l

RT: 6.984 min Scan# 847

Delta R.T. -0.086 min

Lab File: VY013255.D

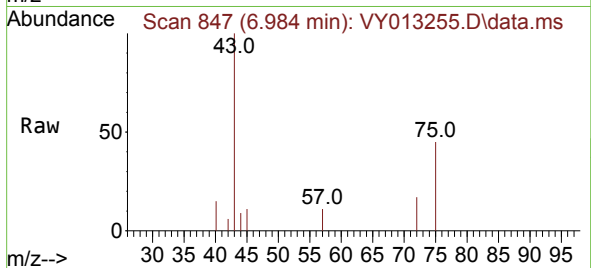
Acq: 11 Apr 2023 20:07

Instrument :

MSVOA_Y

ClientSampleId :

20230203-3-1



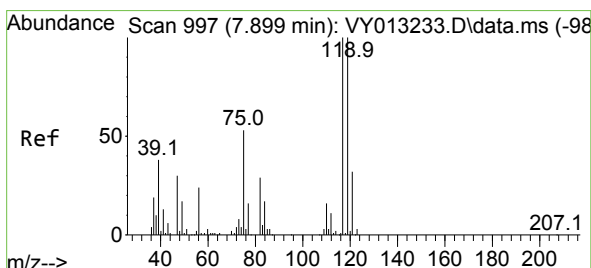
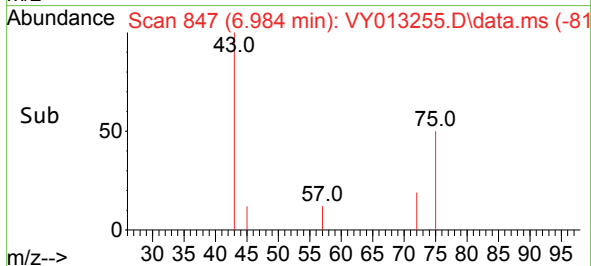
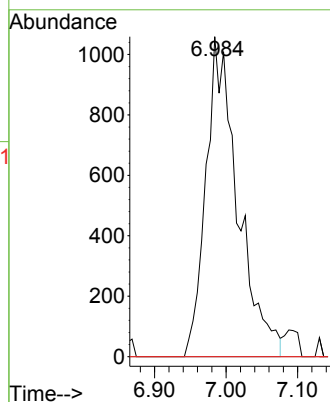
Tgt Ion: 43 Resp: 3274

Ion Ratio Lower Upper

43 100

61 0.0 10.7 16.1#

70 0.0 7.8 11.8#



#38

Carbon Tetrachloride

Concen: 6.475 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.110 min

Lab File: VY013255.D

Acq: 11 Apr 2023 20:07

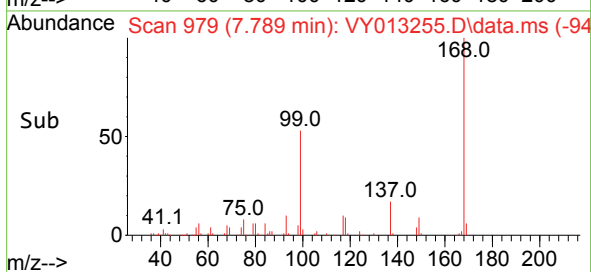
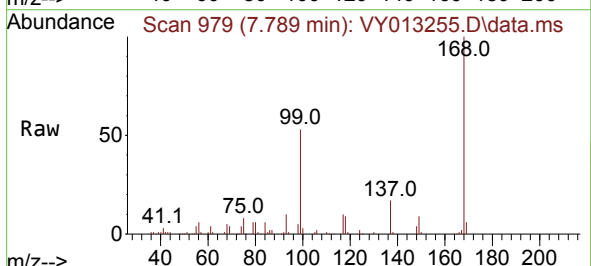
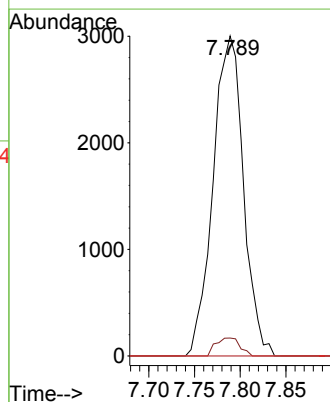
Tgt Ion: 117 Resp: 6946

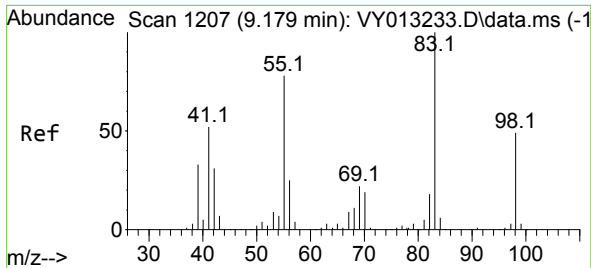
Ion Ratio Lower Upper

117 100

119 5.6 77.2 115.8#

121 0.0 24.7 37.1#





#39

Methylcyclohexane

Concen: 2.808 ug/l

RT: 9.179 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY013255.D

Acq: 11 Apr 2023 20:07

Instrument :

MSVOA_Y

ClientSampleId :

20230203-3-1

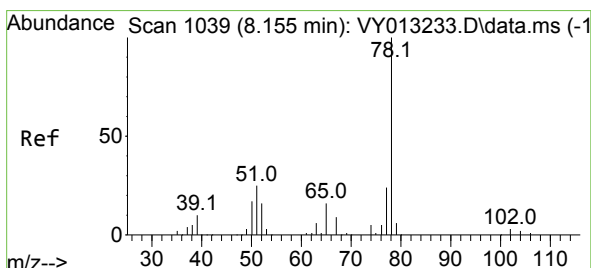
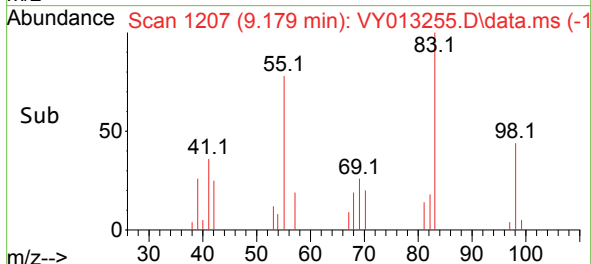
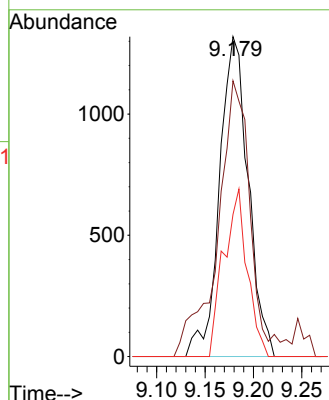
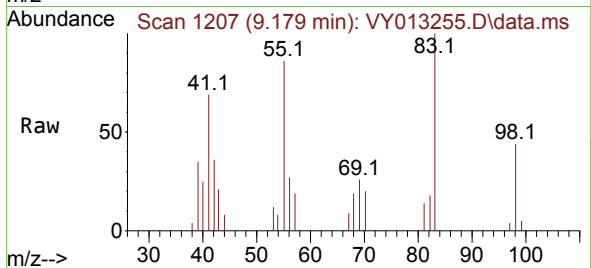
Tgt Ion: 83 Resp: 2719

Ion Ratio Lower Upper

83 100

55 81.8 60.0 90.0

98 44.4 38.3 57.5



#40

Benzene

Concen: 4.501 ug/l

RT: 8.155 min Scan# 1039

Delta R.T. -0.000 min

Lab File: VY013255.D

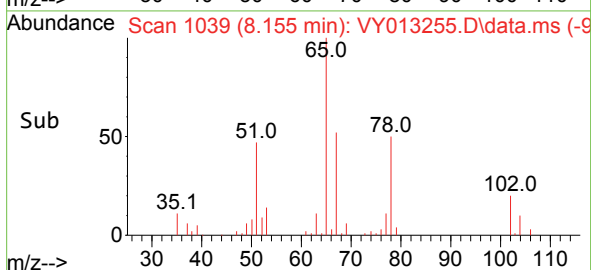
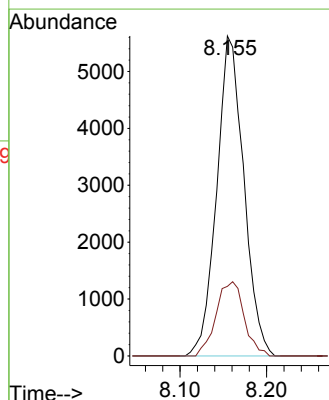
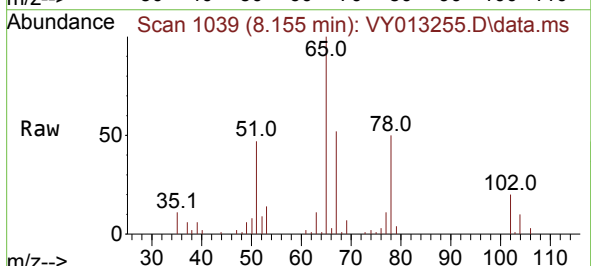
Acq: 11 Apr 2023 20:07

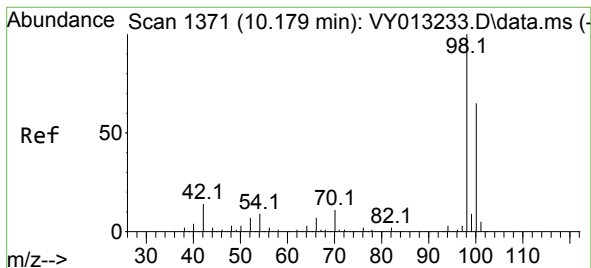
Tgt Ion: 78 Resp: 12215

Ion Ratio Lower Upper

78 100

77 21.8 19.4 29.0





#50

Toluene-d8

Concen: 57.639 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. -0.000 min

Lab File: VY013255.D

Acq: 11 Apr 2023 20:07

Instrument :

MSVOA_Y

ClientSampleId :

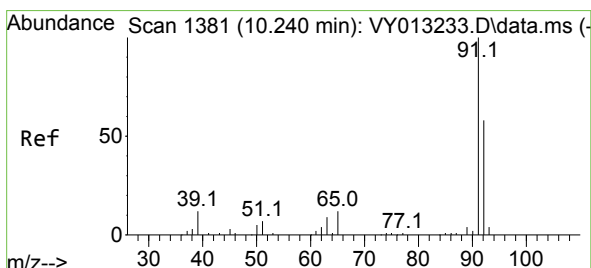
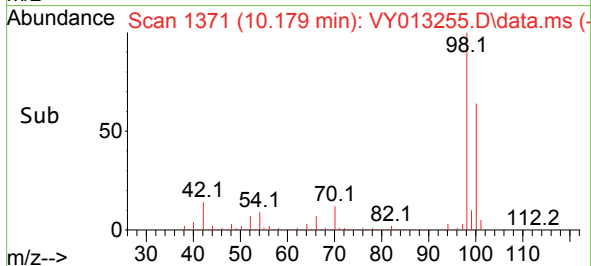
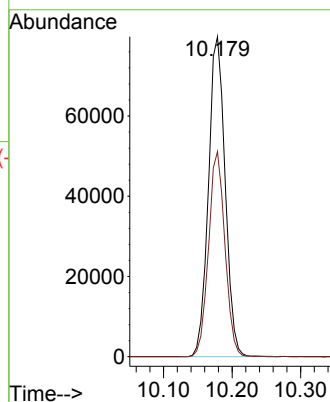
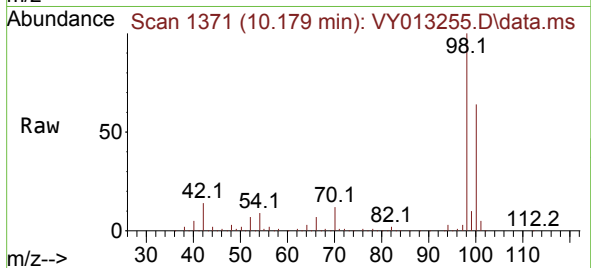
20230203-3-1

Tgt Ion: 98 Resp: 135182

Ion Ratio Lower Upper

98 100

100 62.8 50.9 76.3



#52

Toluene

Concen: 6.526 ug/l

RT: 10.240 min Scan# 1381

Delta R.T. -0.000 min

Lab File: VY013255.D

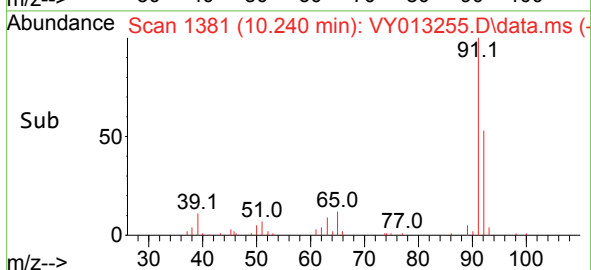
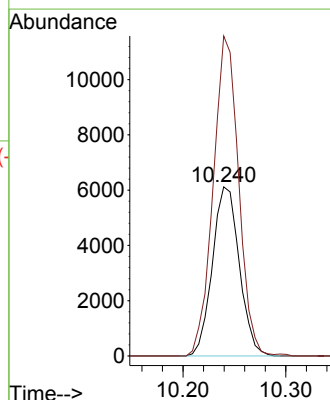
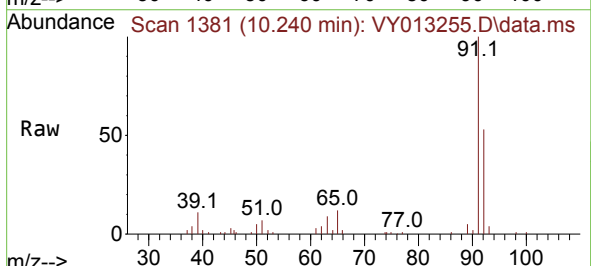
Acq: 11 Apr 2023 20:07

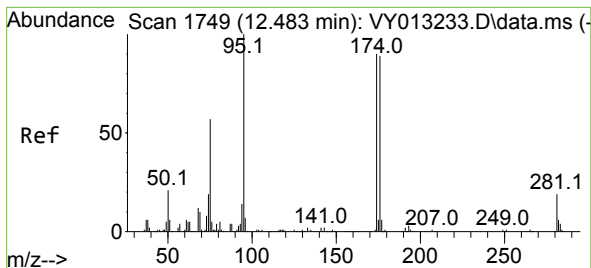
Tgt Ion: 92 Resp: 11106

Ion Ratio Lower Upper

92 100

91 179.5 141.3 211.9

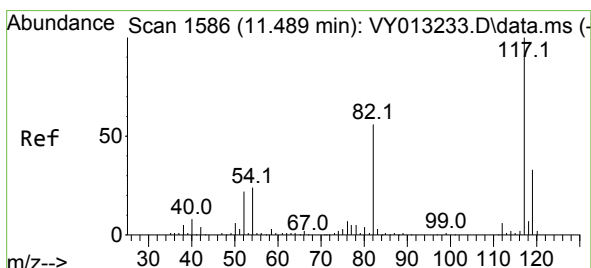
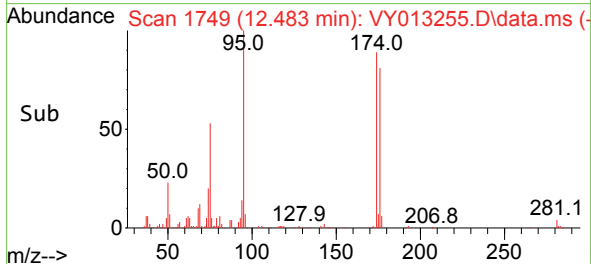
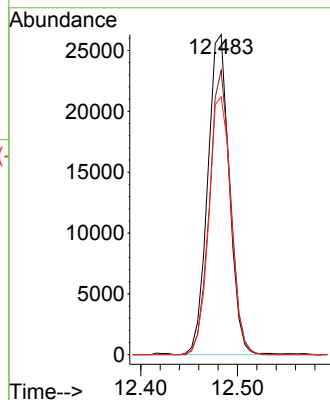
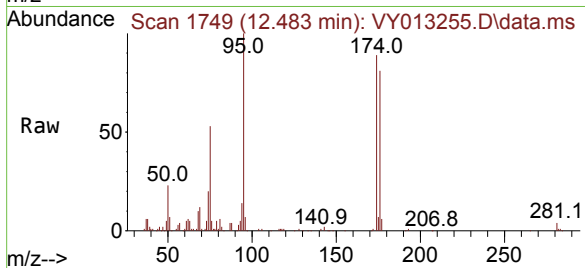




#62
4-Bromofluorobenzene
Concen: 48.587 ug/l
RT: 12.483 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY013255.D
Acq: 11 Apr 2023 20:07

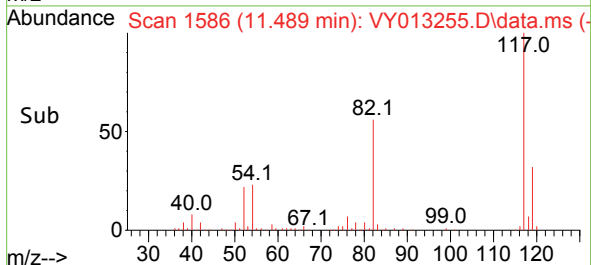
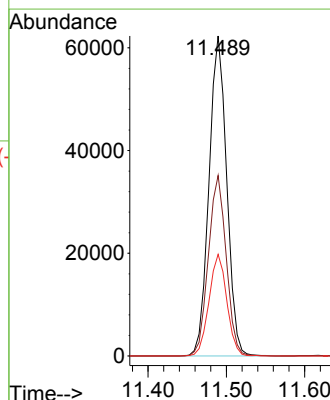
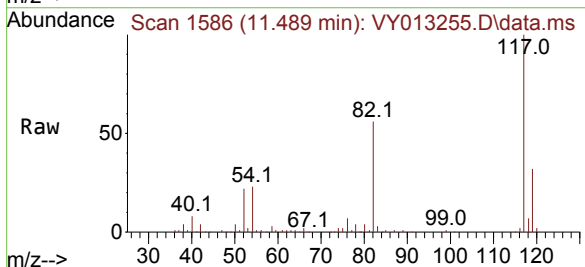
Instrument :
MSVOA_Y
ClientSampleId :
20230203-3-1

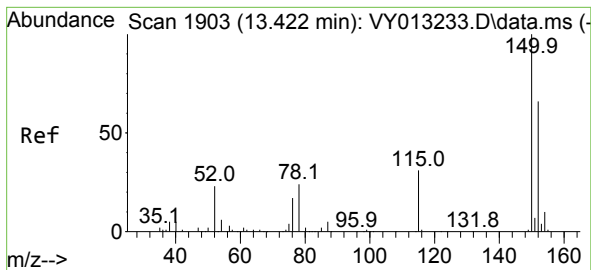
Tgt Ion: 95 Resp: 40692
Ion Ratio Lower Upper
95 100
174 87.6 0.0 176.6
176 83.2 0.0 170.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY013255.D
Acq: 11 Apr 2023 20:07

Tgt Ion: 117 Resp: 97721
Ion Ratio Lower Upper
117 100
82 56.4 45.4 68.0
119 31.8 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1903

Delta R.T. 0.006 min

Lab File: VY013255.D

Acq: 11 Apr 2023 20:07

Instrument :

MSVOA_Y

ClientSampleId :

20230203-3-1

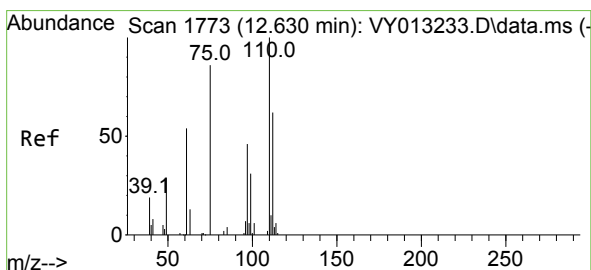
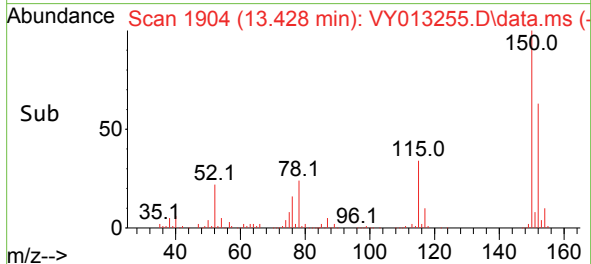
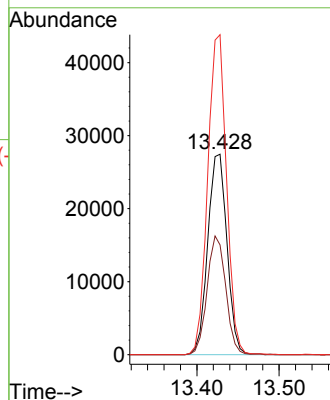
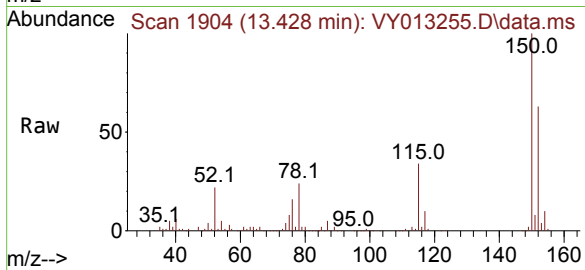
Tgt Ion:152 Resp: 44582

Ion Ratio Lower Upper

152 100

115 57.5 27.1 81.3

150 156.3 0.0 347.8



#76

1,2,3-Trichloropropane

Concen: 40.869 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.147 min

Lab File: VY013255.D

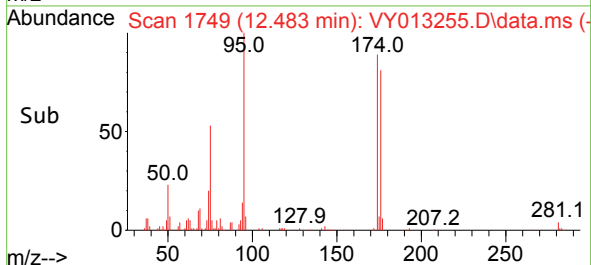
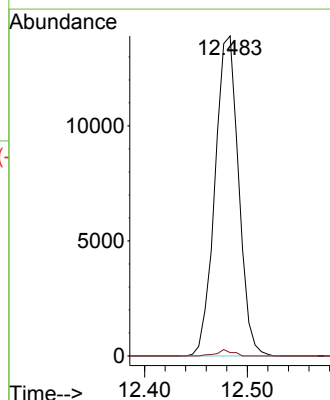
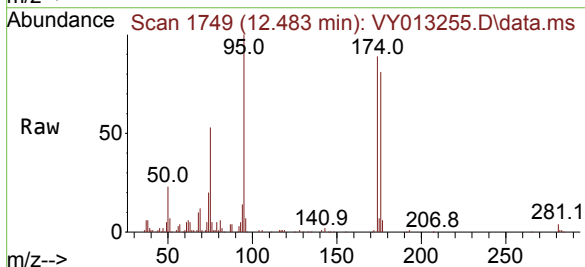
Acq: 11 Apr 2023 20:07

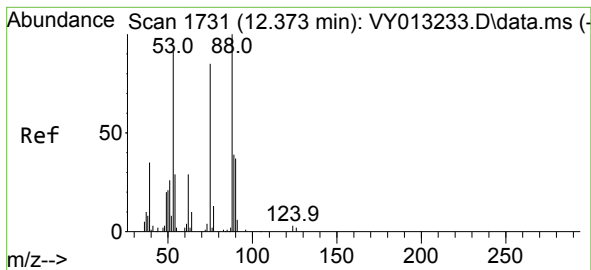
Tgt Ion: 75 Resp: 22177

Ion Ratio Lower Upper

75 100

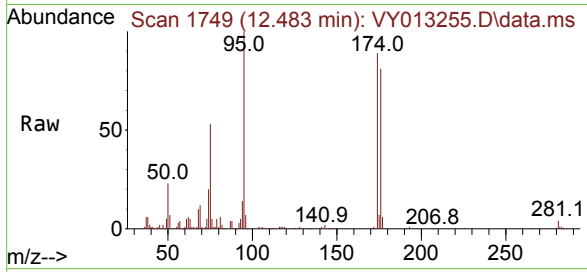
77 1.3 0.0 0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 84.281 ug/l
 RT: 12.483 min Scan# 11
 Delta R.T. 0.110 min
 Lab File: VY013255.D
 Acq: 11 Apr 2023 20:07

Instrument :
 MSVOA_Y
 ClientSampleId :
 20230203-3-1



Tgt Ion: 75 Resp: 22177
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.4 110.0#
 89 0.0 36.6 55.0#

