

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050323\
 Data File : VY013590.D
 Acq On : 03 May 2023 18:31
 Operator : KP/MD
 Sample : 02505-04
 Misc : 3.41g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WO-4

Quant Time: May 04 01:22:03 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042423S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 25 02:39:58 2023
 Response via : Initial Calibration

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

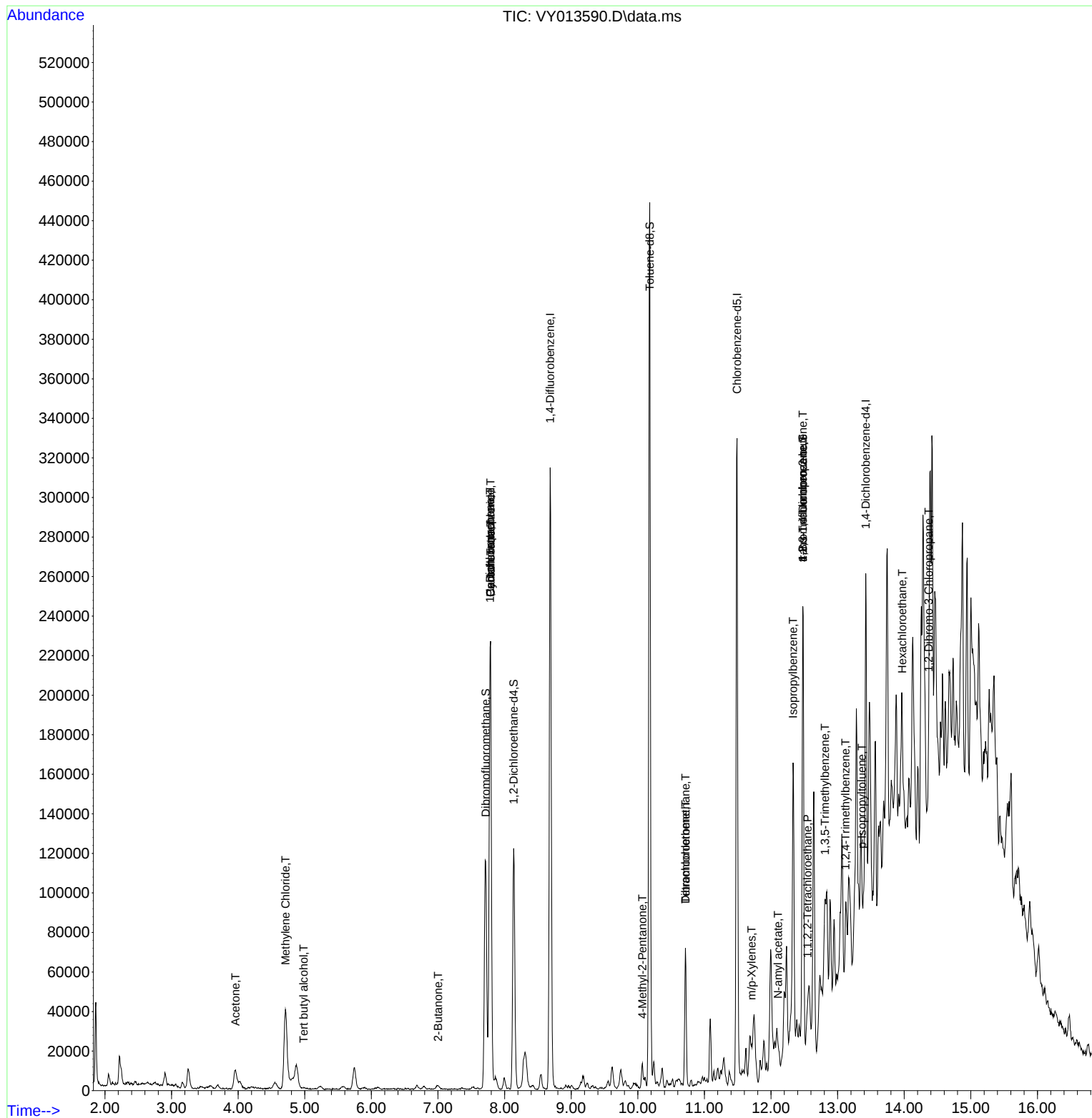
Internal Standards						
1) Pentafluorobenzene	7.789	168	176608	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	265223	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	172034	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	47607	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	97709	50.469	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 100.940%	
35) Dibromofluoromethane	7.716	113	82879	49.684	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 99.360%	
50) Toluene-d8	10.179	98	289767	48.830	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 97.660%	
62) 4-Bromofluorobenzene	12.477	95	59778	29.880	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 59.760%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.985	59	159	1.377	ug/l #	89
13) Acrolein	3.820	56	22	Below Cal	#	16
16) Acetone	3.960	43	23035	30.213	ug/l	96
20) Methylene Chloride	4.710	84	29895	5.281	ug/l	87
25) 2-Butanone	7.003	43	3292	3.405	ug/l	92
31) Cyclohexane	7.789	56	5563	1.605	ug/l #	55
36) 1,1-Dichloropropene	7.783	75	14143	5.109	ug/l #	49
38) Carbon Tetrachloride	7.789	117	17170	5.917	ug/l #	15
51) 4-Methyl-2-Pentanone	10.069	43	9012	4.599	ug/l	91
60) Dibromochloromethane	10.715	129	12698	6.473	ug/l #	11
64) Tetrachloroethene	10.715	164	14443	11.041	ug/l	97
68) m/p-Xylenes	11.709	106	2526	1.010	ug/l	100
73) Isopropylbenzene	12.331	105	7674	2.131	ug/l #	66
74) N-amyl acetate	12.105	43	4887	3.814	ug/l #	43
75) 1,1,2,2-Tetrachloroethane	12.550	83	3171	3.603	ug/l #	26
76) 1,2,3-Trichloropropane	12.477	75	31440	48.969	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.812	105	4892	1.665	ug/l	95
81) trans-1,4-Dichloro-2-b...	12.477	75	31440	100.169	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.117	105	7991	2.797	ug/l	97
86) p-Isopropyltoluene	13.367	119	4447	1.447	ug/l #	74
90) Hexachloroethane	13.971	117	743	1.149	ug/l #	8
92) 1,2-Dibromo-3-Chloropr...	14.367	75	285	1.833	ug/l #	15

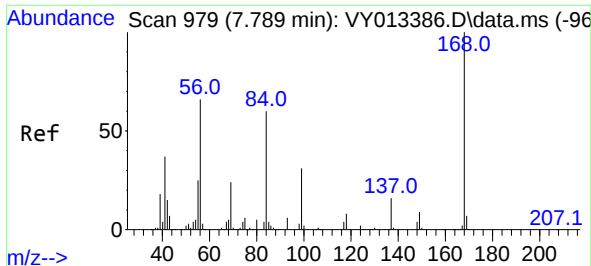
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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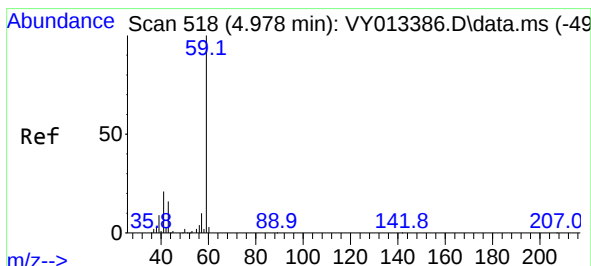
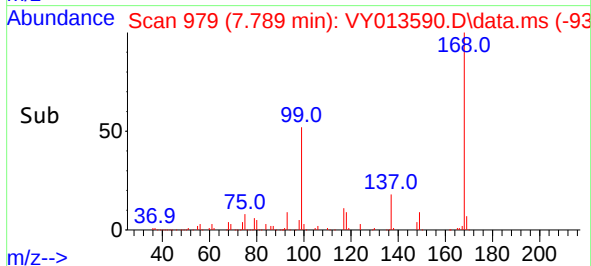
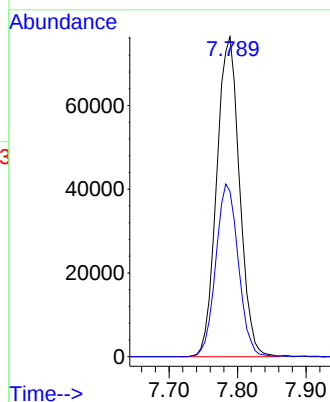
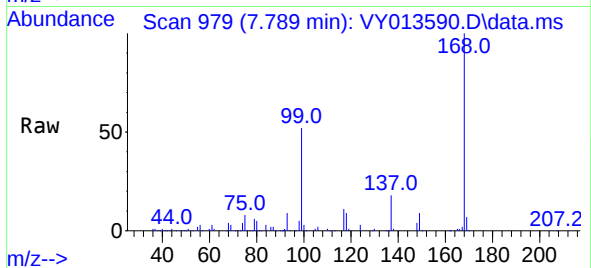




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY013590.D
Acq: 03 May 2023 18:31

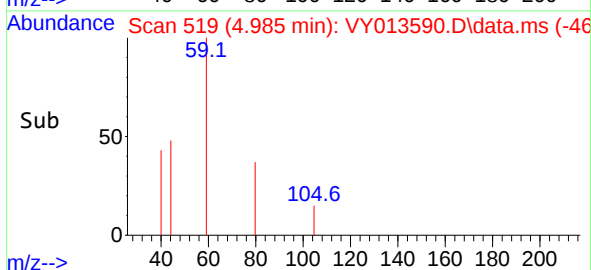
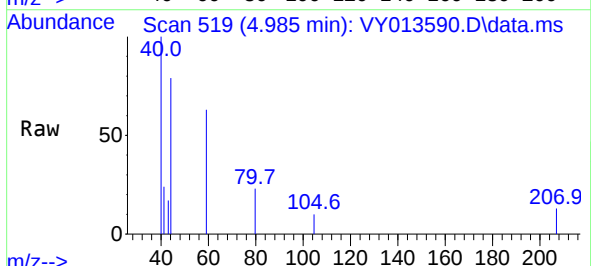
Instrument :
MSVOA_Y
ClientSampleId :
WO-4

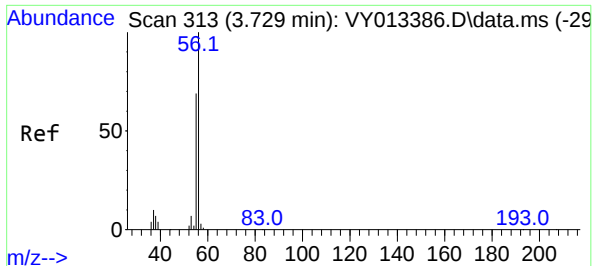
Tgt Ion:168 Resp: 176608
Ion Ratio Lower Upper
168 100
99 51.6 41.8 62.6



#11
Tert butyl alcohol
Concen: 1.377 ug/l
RT: 4.985 min Scan# 519
Delta R.T. 0.007 min
Lab File: VY013590.D
Acq: 03 May 2023 18:31

Tgt Ion: 59 Resp: 159
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.4#

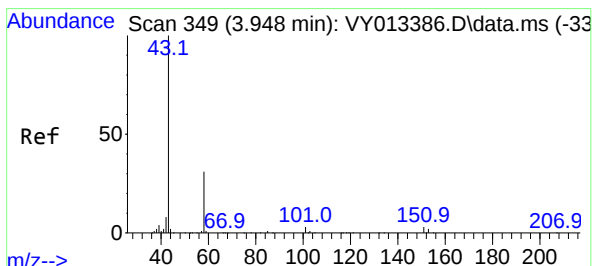
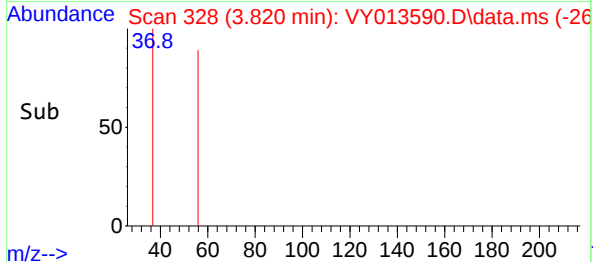
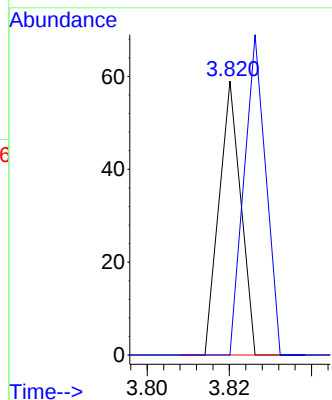
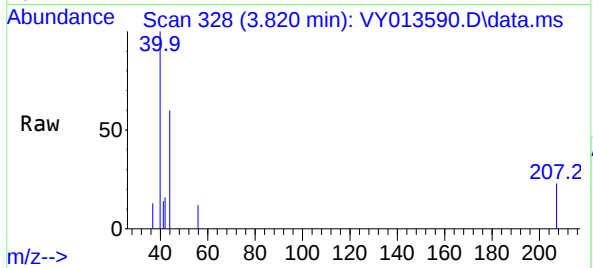




#13
Acrolein
Concen: Below Cal
RT: 3.820 min Scan# 313
Delta R.T. 0.091 min
Lab File: VY013590.D
Acq: 03 May 2023 18:31

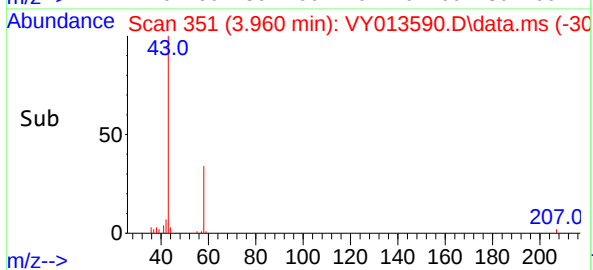
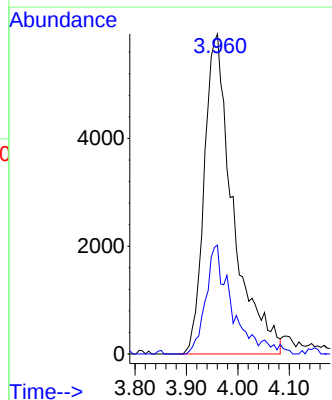
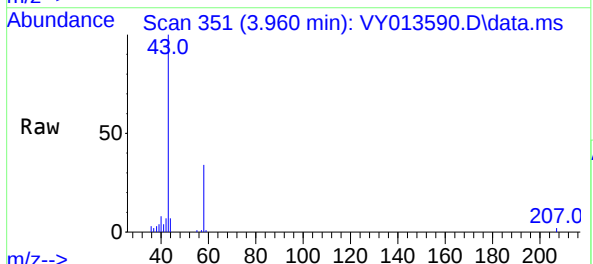
Instrument :
MSVOA_Y
ClientSampleId :
WO-4

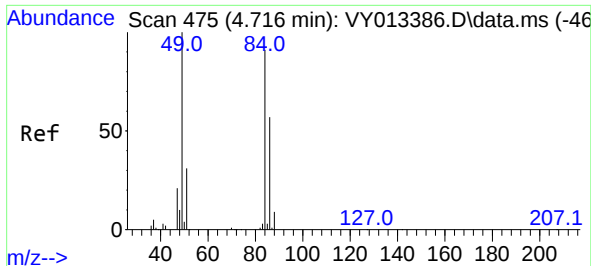
Tgt Ion: 56 Resp: 22
Ion Ratio Lower Upper
56 100
55 0.0 54.1 81.1#



#16
Acetone
Concen: 30.213 ug/l
RT: 3.960 min Scan# 351
Delta R.T. 0.012 min
Lab File: VY013590.D
Acq: 03 May 2023 18:31

Tgt Ion: 43 Resp: 23035
Ion Ratio Lower Upper
43 100
58 34.0 25.4 38.0



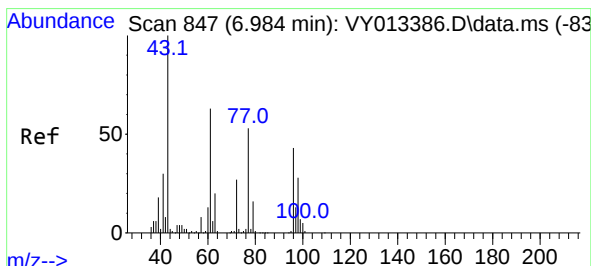
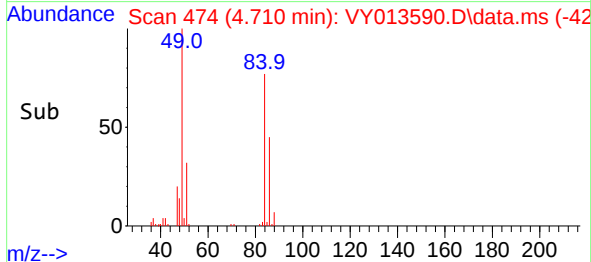
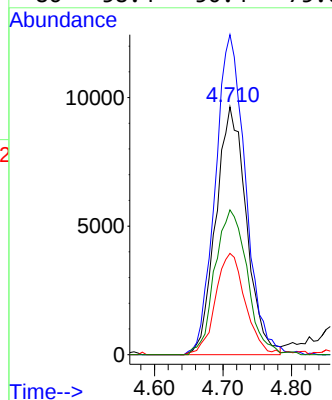
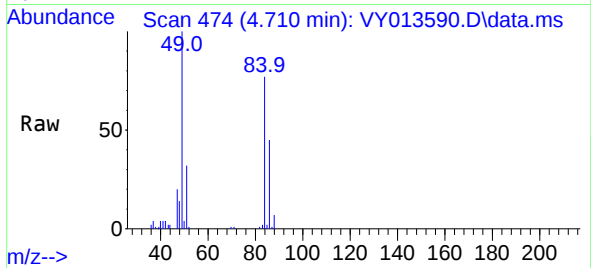


#20
Methylene Chloride
Concen: 5.281 ug/l
RT: 4.710 min Scan# 41
Delta R.T. -0.006 min
Lab File: VY013590.D
Acq: 03 May 2023 18:31

Instrument :
MSVOA_Y
ClientSampleId :
WO-4

Tgt Ion: 84 Resp: 29895

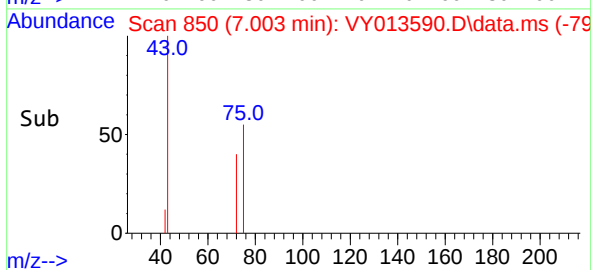
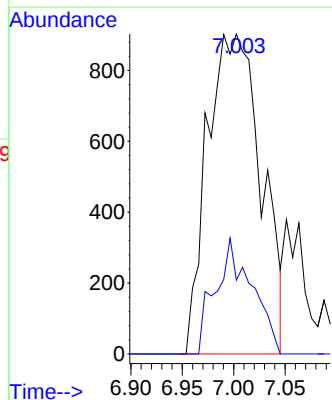
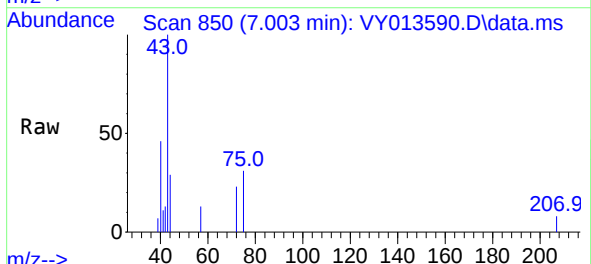
Ion	Ratio	Lower	Upper
84	100		
49	129.1	88.0	132.0
51	40.9	27.4	41.0
86	58.4	50.4	75.6

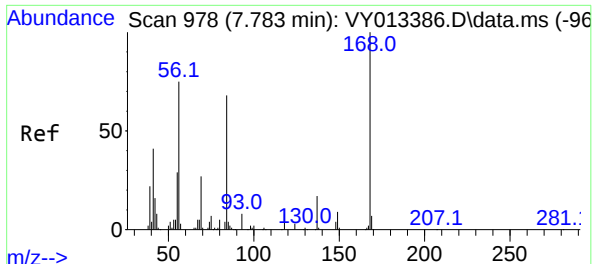


#25
2-Butanone
Concen: 3.405 ug/l
RT: 7.003 min Scan# 850
Delta R.T. 0.019 min
Lab File: VY013590.D
Acq: 03 May 2023 18:31

Tgt Ion: 43 Resp: 3292

Ion	Ratio	Lower	Upper
43	100		
72	23.0	21.9	32.9

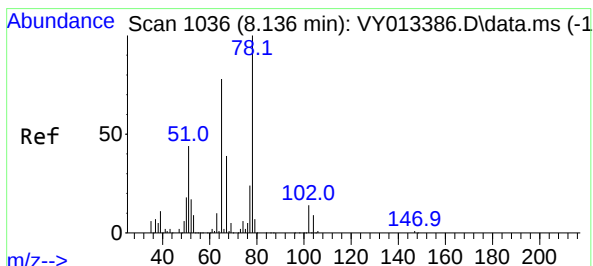
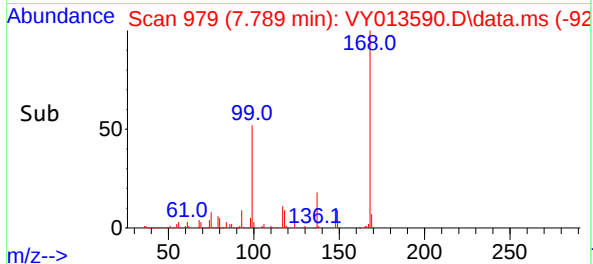
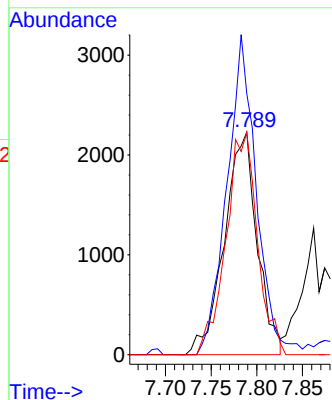
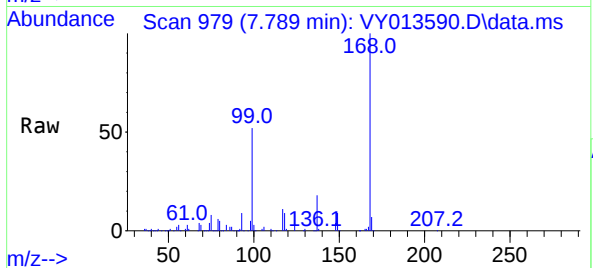




#31
Cyclohexane
Concen: 1.605 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY013590.D
Acq: 03 May 2023 18:31

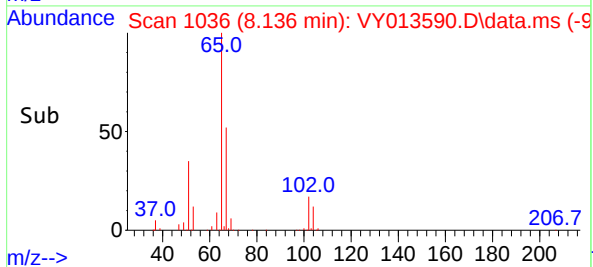
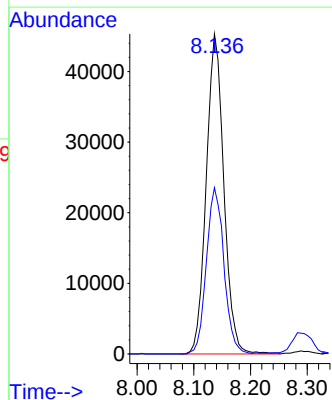
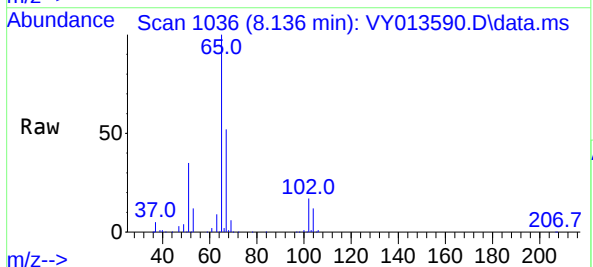
Instrument :
MSVOA_Y
ClientSampleId :
WO-4

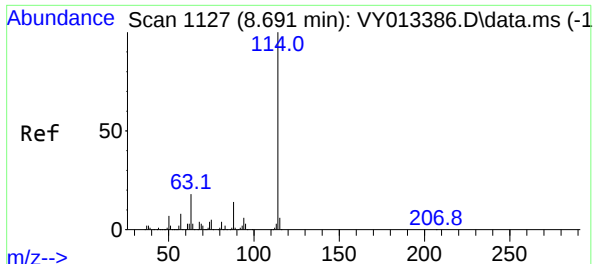
Tgt Ion: 56 Resp: 5563
Ion Ratio Lower Upper
56 100
69 117.4 29.2 43.8#
84 99.8 73.0 109.6



#33
1,2-Dichloroethane-d4
Concen: 50.469 ug/l
RT: 8.136 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VY013590.D
Acq: 03 May 2023 18:31

Tgt Ion: 65 Resp: 97709
Ion Ratio Lower Upper
65 100
67 51.9 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VY013590.D

Acq: 03 May 2023 18:31

Instrument :

MSVOA_Y

ClientSampleId :

WO-4

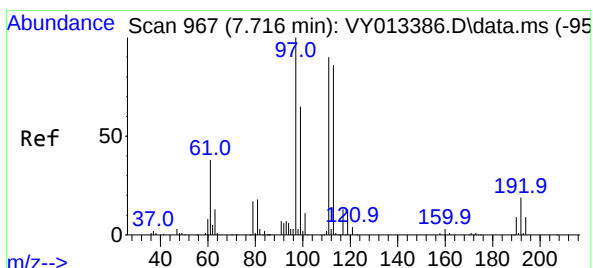
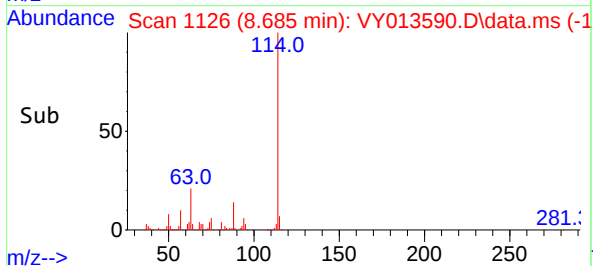
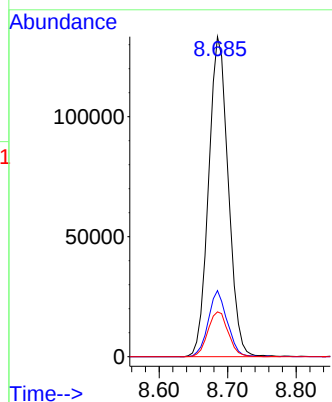
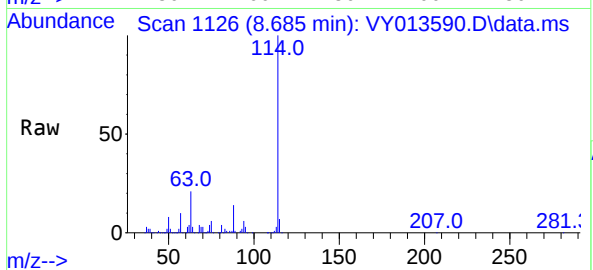
Tgt Ion:114 Resp: 265223

Ion Ratio Lower Upper

114 100

63 20.7 0.0 36.6

88 14.0 0.0 28.8



#35

Dibromofluoromethane

Concen: 49.684 ug/l

RT: 7.716 min Scan# 967

Delta R.T. -0.000 min

Lab File: VY013590.D

Acq: 03 May 2023 18:31

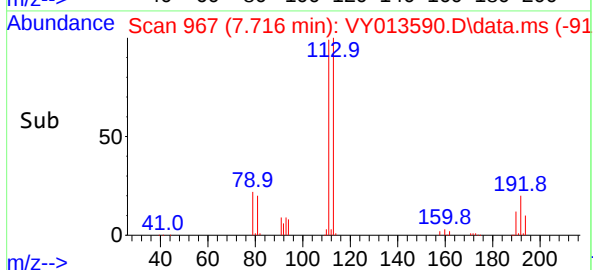
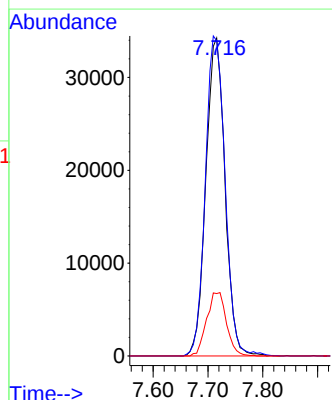
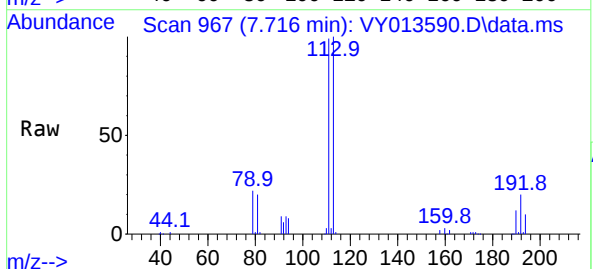
Tgt Ion:113 Resp: 82879

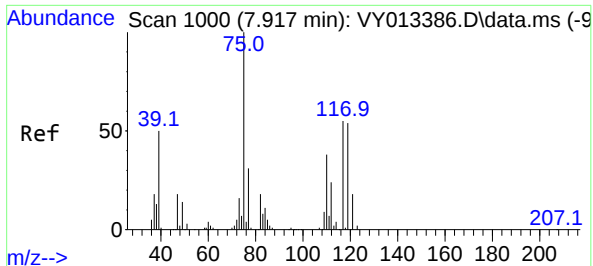
Ion Ratio Lower Upper

113 100

111 103.5 82.2 123.2

192 20.6 16.7 25.1





#36

1,1-Dichloropropene

Concen: 5.109 ug/l

RT: 7.783 min Scan# 91

Delta R.T. -0.134 min

Lab File: VY013590.D

Acq: 03 May 2023 18:31

Instrument :

MSVOA_Y

ClientSampleId :

WO-4

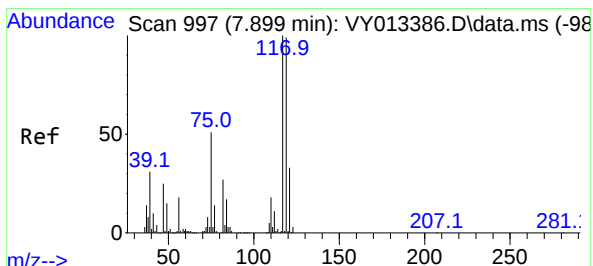
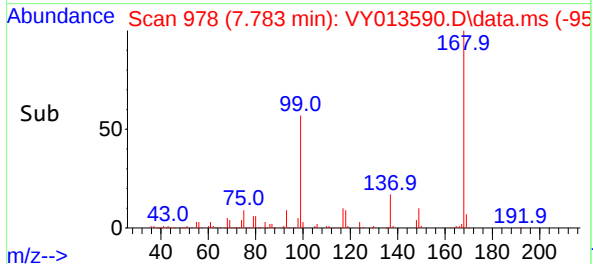
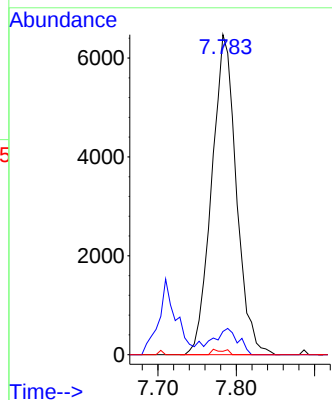
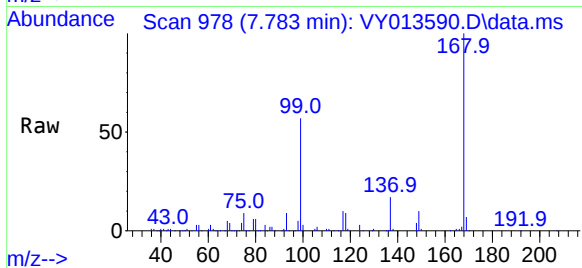
Tgt Ion: 75 Resp: 14143

Ion Ratio Lower Upper

75 100

110 9.0 18.7 56.1#

77 0.9 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 5.917 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.110 min

Lab File: VY013590.D

Acq: 03 May 2023 18:31

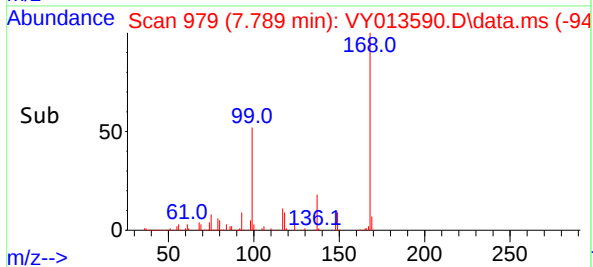
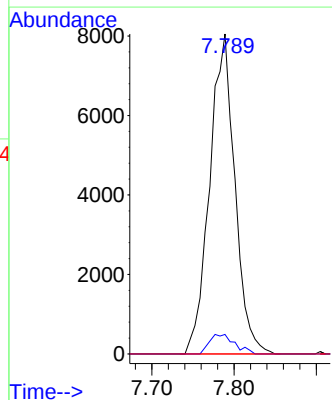
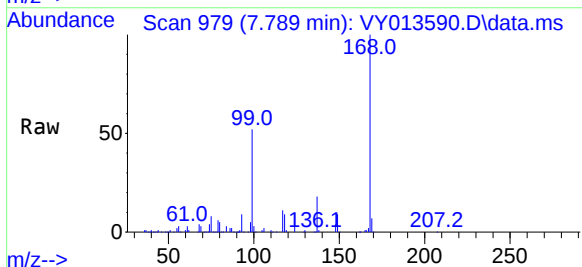
Tgt Ion: 117 Resp: 17170

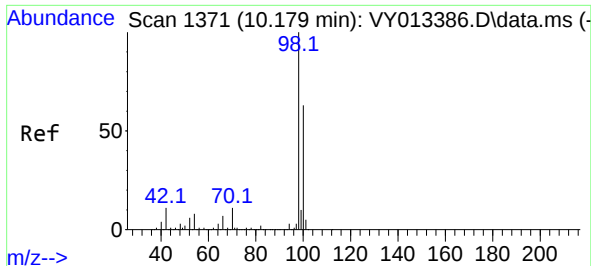
Ion Ratio Lower Upper

117 100

119 6.1 79.0 118.6#

121 0.0 26.6 40.0#

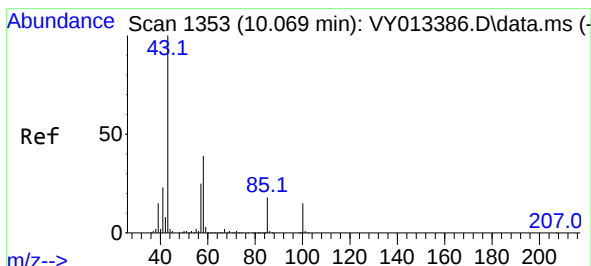
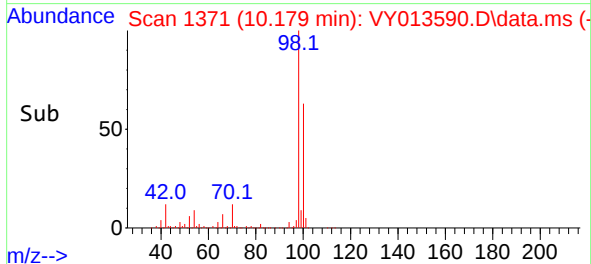
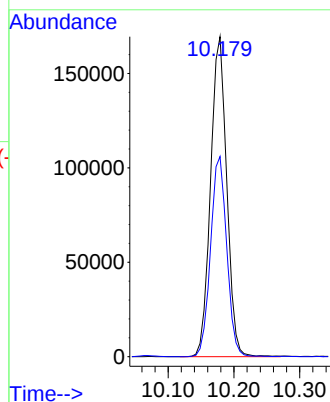
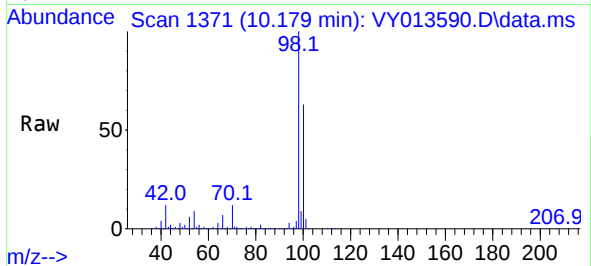




#50
Toluene-d8
Concen: 48.830 ug/l
RT: 10.179 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY013590.D
Acq: 03 May 2023 18:31

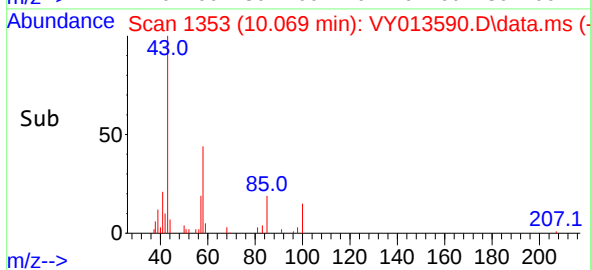
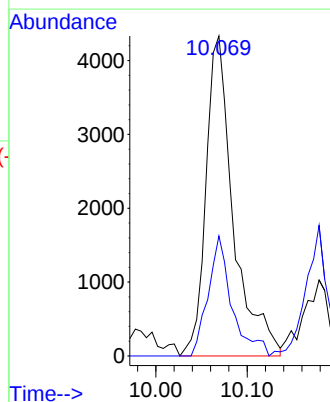
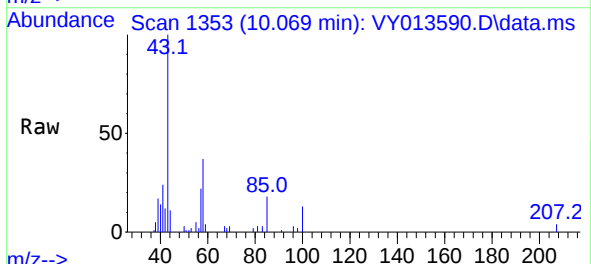
Instrument :
MSVOA_Y
ClientSampleId :
WO-4

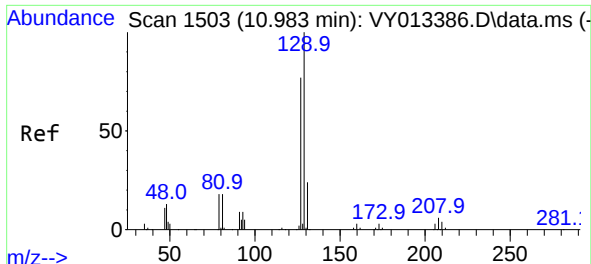
Tgt Ion: 98 Resp: 289767
Ion Ratio Lower Upper
98 100
100 62.6 50.5 75.7



#51
4-Methyl-2-Pentanone
Concen: 4.599 ug/l
RT: 10.069 min Scan# 1353
Delta R.T. 0.000 min
Lab File: VY013590.D
Acq: 03 May 2023 18:31

Tgt Ion: 43 Resp: 9012
Ion Ratio Lower Upper
43 100
58 32.9 30.6 46.0

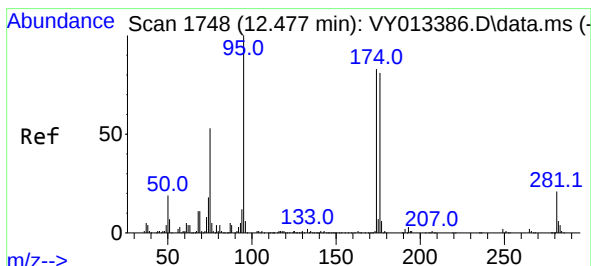
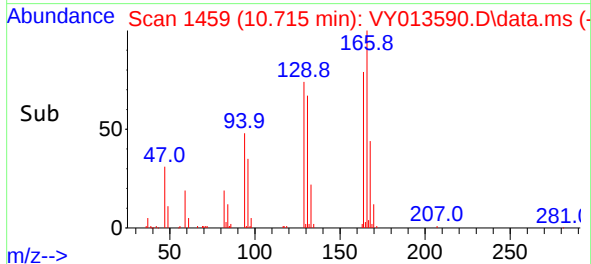
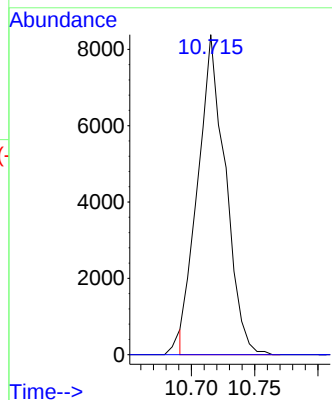
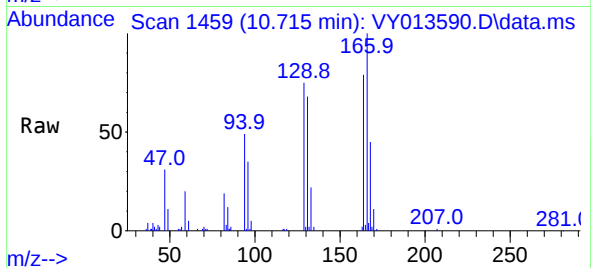




#60
Dibromochloromethane
Concen: 6.473 ug/l
RT: 10.715 min Scan# 1459
Delta R.T. -0.268 min
Lab File: VY013590.D
Acq: 03 May 2023 18:31

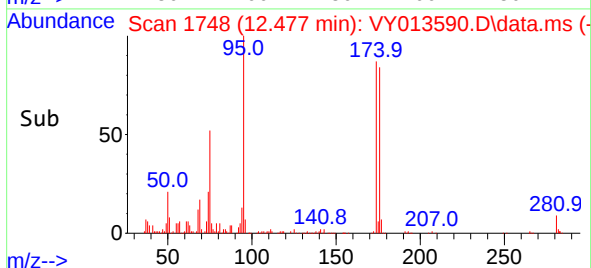
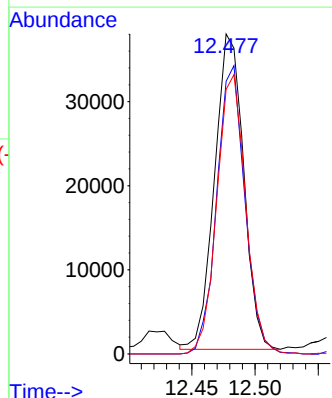
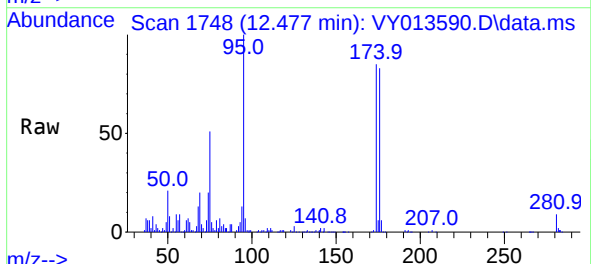
Instrument :
MSVOA_Y
ClientSampleId :
WO-4

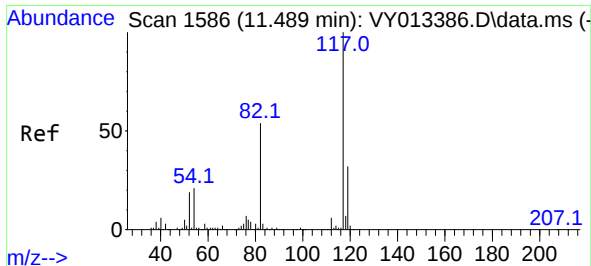
Tgt Ion:129 Resp: 12698
Ion Ratio Lower Upper
129 100
127 0.0 38.7 116.1#



#62
4-Bromofluorobenzene
Concen: 29.880 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY013590.D
Acq: 03 May 2023 18:31

Tgt Ion: 95 Resp: 59778
Ion Ratio Lower Upper
95 100
174 88.8 0.0 182.0
176 87.8 0.0 175.4

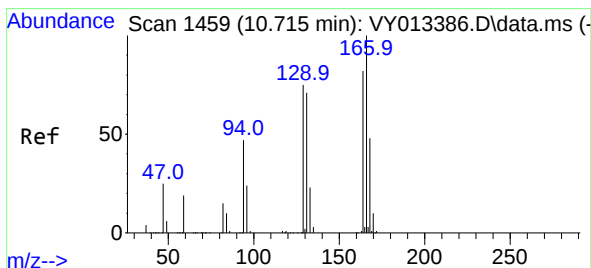
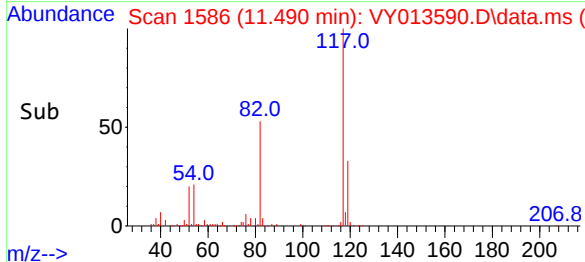
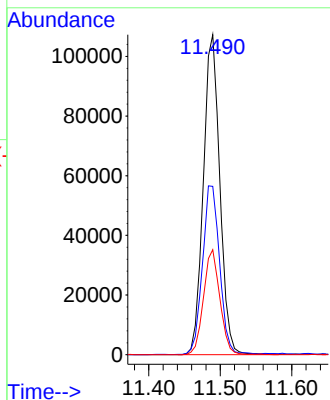
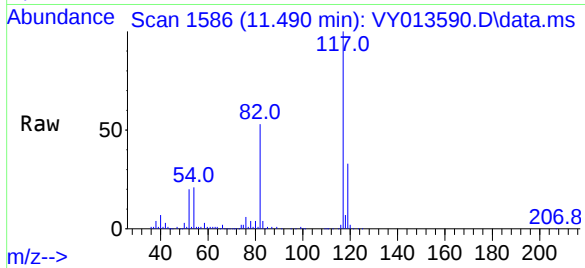




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1170
Delta R.T. 0.001 min
Lab File: VY013590.D
Acq: 03 May 2023 18:31

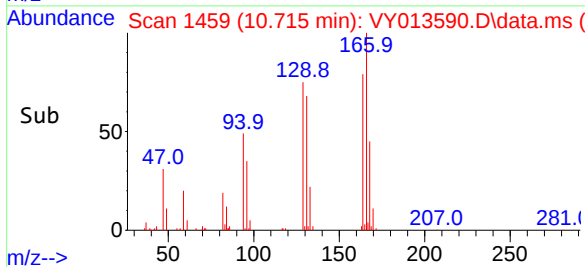
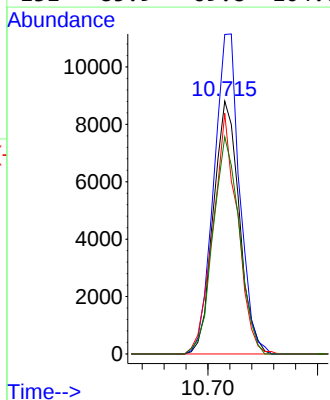
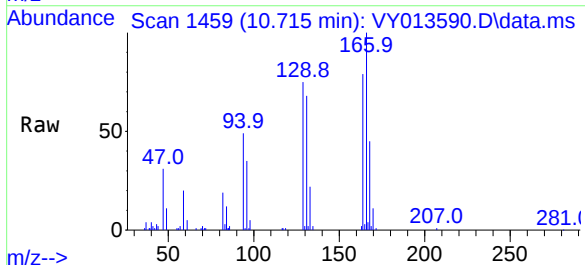
Instrument :
MSVOA_Y
ClientSampleId :
WO-4

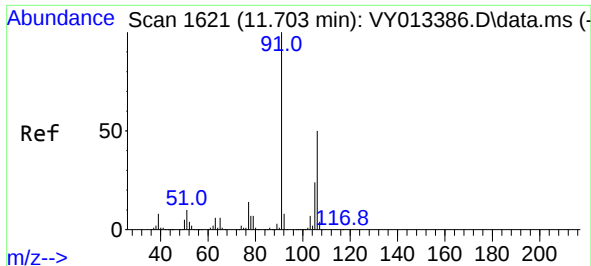
Tgt Ion:117 Resp: 172034
Ion Ratio Lower Upper
117 100
82 52.5 43.0 64.6
119 32.8 25.5 38.3



#64
Tetrachloroethene
Concen: 11.041 ug/l
RT: 10.715 min Scan# 1459
Delta R.T. 0.000 min
Lab File: VY013590.D
Acq: 03 May 2023 18:31

Tgt Ion:164 Resp: 14443
Ion Ratio Lower Upper
164 100
166 126.4 97.5 146.3
129 95.2 72.6 109.0
131 85.9 69.8 104.6

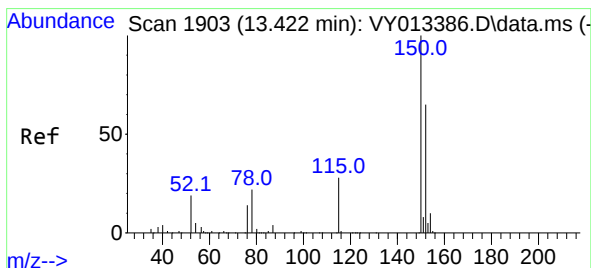
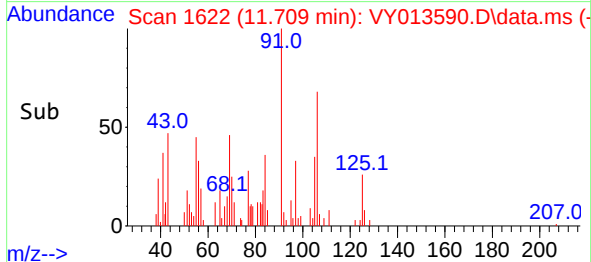
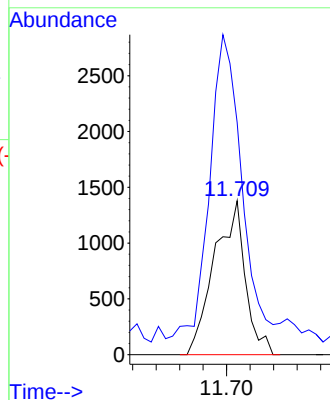
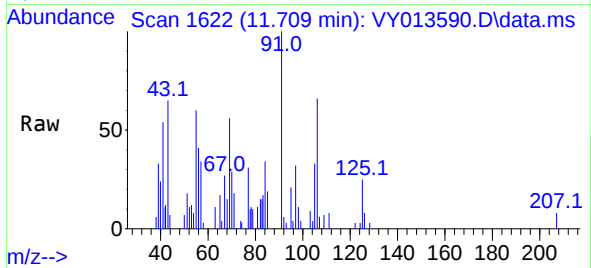




#68
m/p-Xylenes
Concen: 1.010 ug/l
RT: 11.709 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY013590.D
Acq: 03 May 2023 18:31

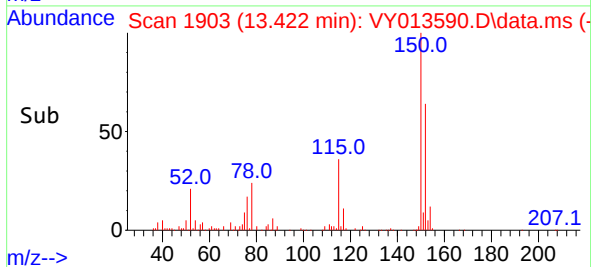
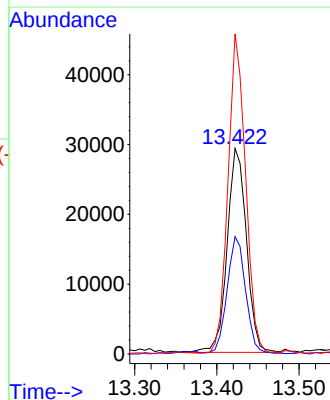
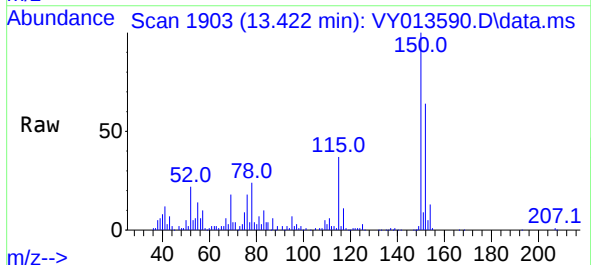
Instrument :
MSVOA_Y
ClientSampleId :
WO-4

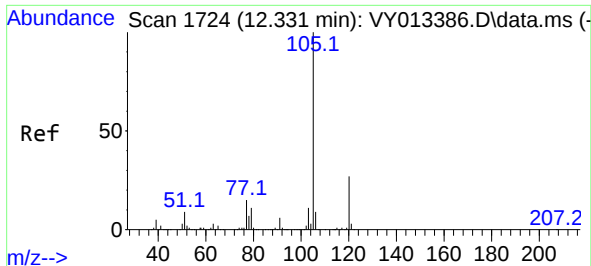
Tgt Ion:106 Resp: 2526
Ion Ratio Lower Upper
106 100
91 200.8 160.9 241.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY013590.D
Acq: 03 May 2023 18:31

Tgt Ion:152 Resp: 47607
Ion Ratio Lower Upper
152 100
115 54.9 28.1 84.2
150 142.8 0.0 352.0

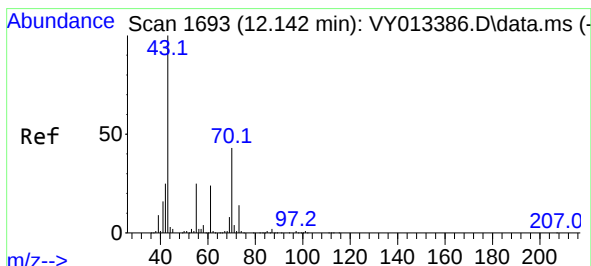
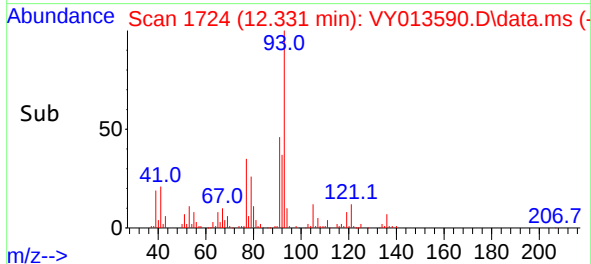
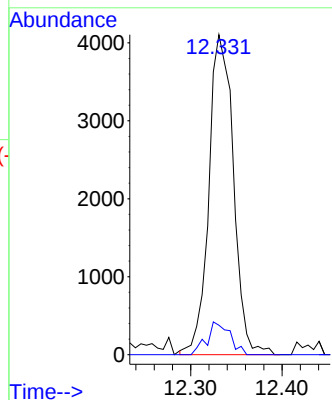
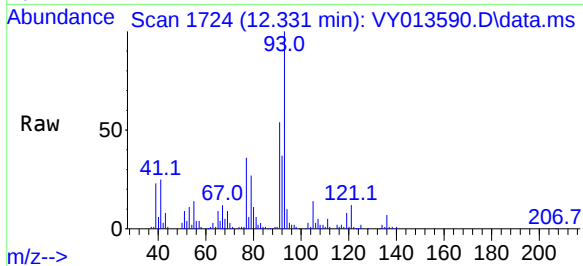




#73
Isopropylbenzene
Concen: 2.131 ug/l
RT: 12.331 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY013590.D
Acq: 03 May 2023 18:31

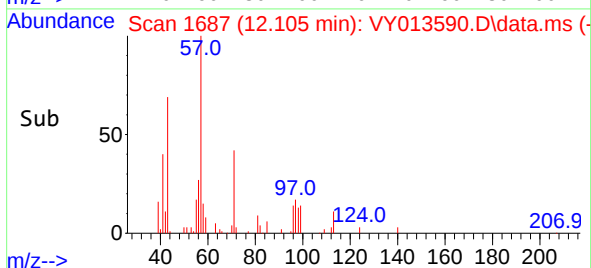
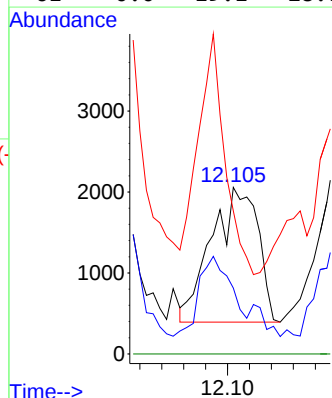
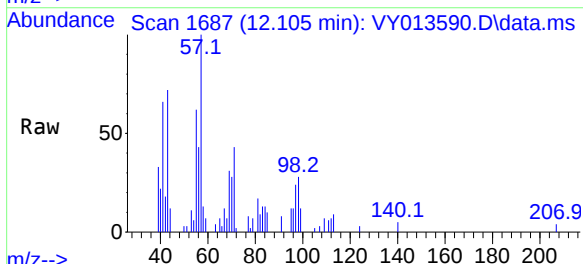
Instrument :
MSVOA_Y
ClientSampleId :
WO-4

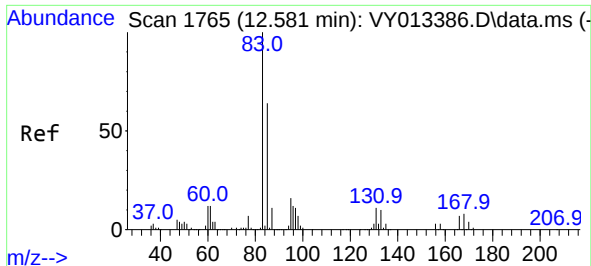
Tgt Ion:105 Resp: 7674
Ion Ratio Lower Upper
105 100
120 9.5 13.7 41.0#



#74
N-ethyl acetate
Concen: 3.814 ug/l
RT: 12.105 min Scan# 1687
Delta R.T. -0.037 min
Lab File: VY013590.D
Acq: 03 May 2023 18:31

Tgt Ion: 43 Resp: 4887
Ion Ratio Lower Upper
43 100
70 42.0 33.0 49.4
55 103.0 19.8 29.6#
61 0.0 19.1 28.7#

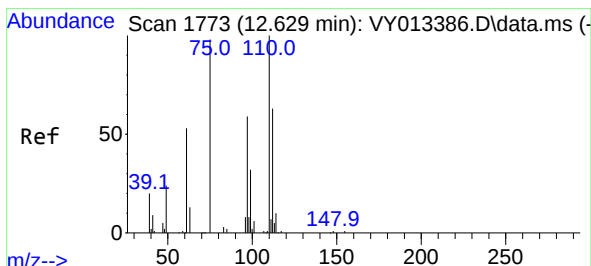
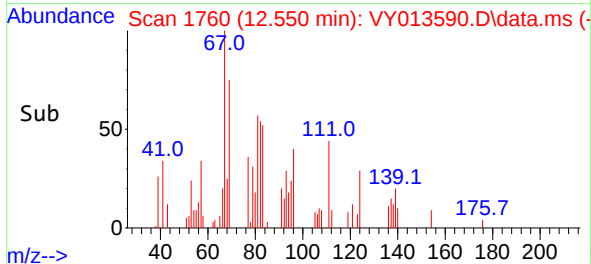
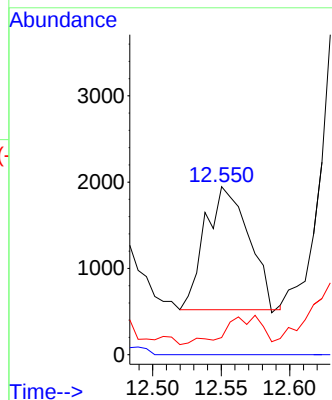
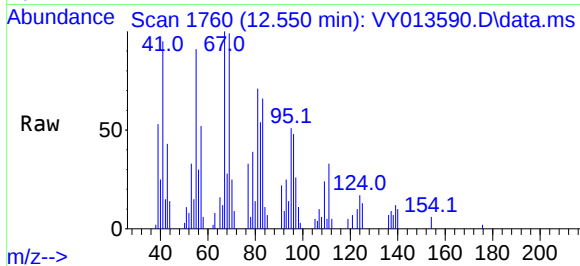




#75
1,1,2,2-Tetrachloroethane
Concen: 3.603 ug/l
RT: 12.550 min Scan# 1760
Delta R.T. -0.031 min
Lab File: VY013590.D
Acq: 03 May 2023 18:31

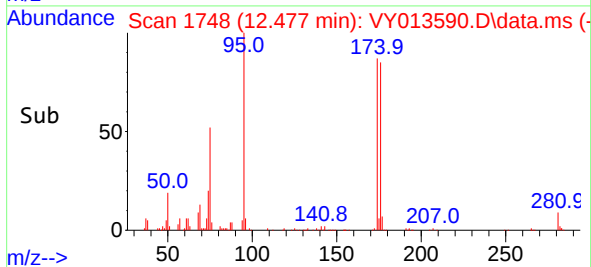
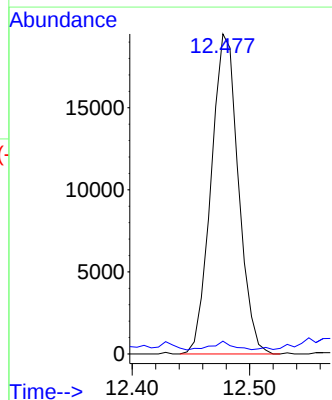
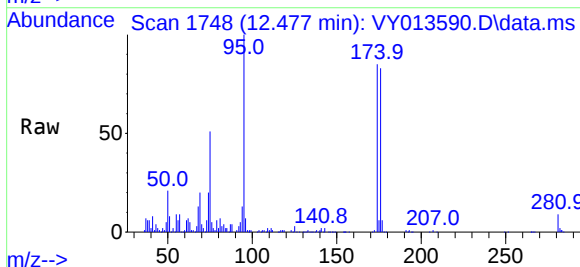
Instrument :
MSVOA_Y
ClientSampleId :
WO-4

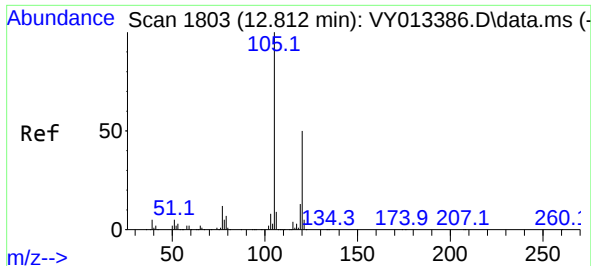
Tgt Ion: 83 Resp: 3171
Ion Ratio Lower Upper
83 100
131 0.0 5.7 17.0#
85 0.0 31.8 95.4#



#76
1,2,3-Trichloropropane
Concen: 48.969 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.152 min
Lab File: VY013590.D
Acq: 03 May 2023 18:31

Tgt Ion: 75 Resp: 31440
Ion Ratio Lower Upper
75 100
77 2.1 0.0 0.0#

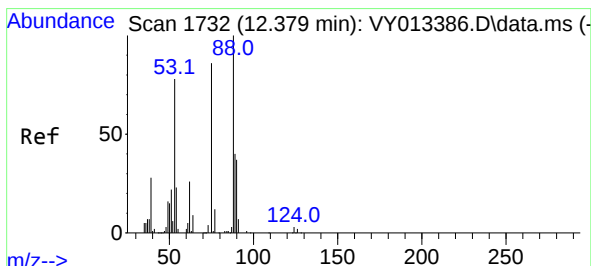
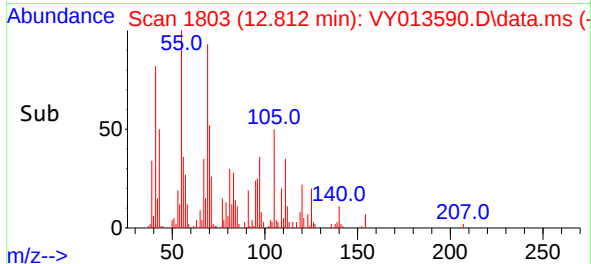
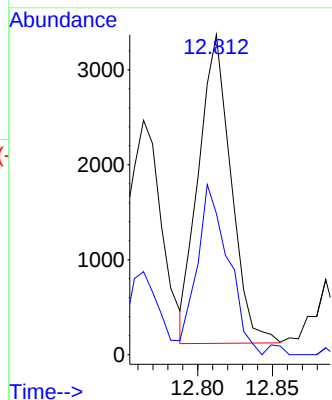
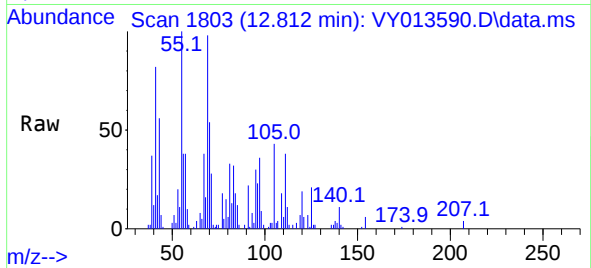




#80
1,3,5-Trimethylbenzene
Concen: 1.665 ug/l
RT: 12.812 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY013590.D
Acq: 03 May 2023 18:31

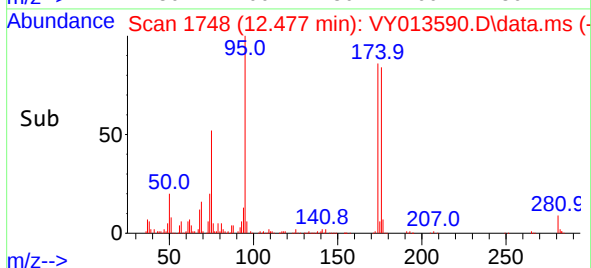
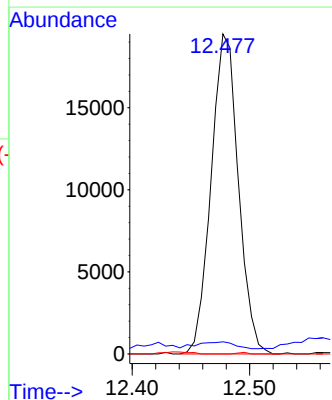
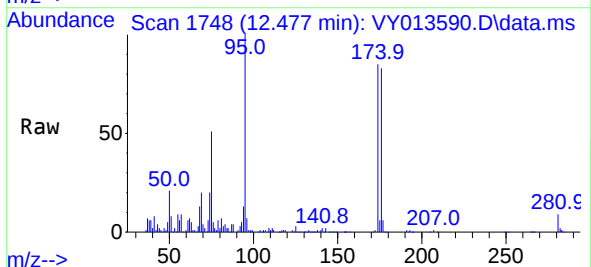
Instrument :
MSVOA_Y
ClientSampleId :
WO-4

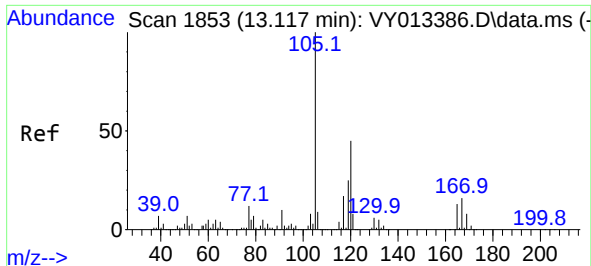
Tgt Ion:105 Resp: 4892
Ion Ratio Lower Upper
105 100
120 52.9 24.7 74.1



#81
trans-1,4-Dichloro-2-butene
Concen: 100.169 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.098 min
Lab File: VY013590.D
Acq: 03 May 2023 18:31

Tgt Ion: 75 Resp: 31440
Ion Ratio Lower Upper
75 100
53 2.9 73.2 109.8#
89 0.2 38.0 57.0#

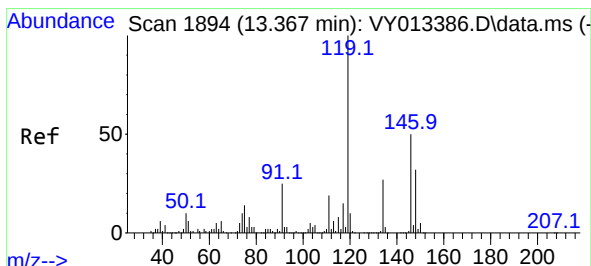
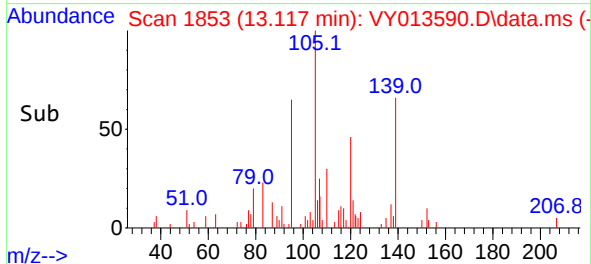
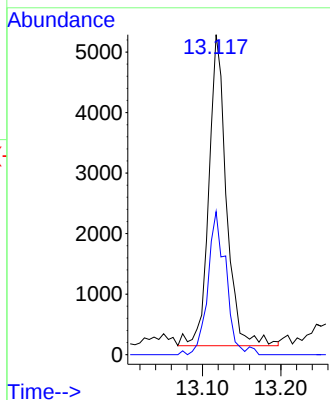
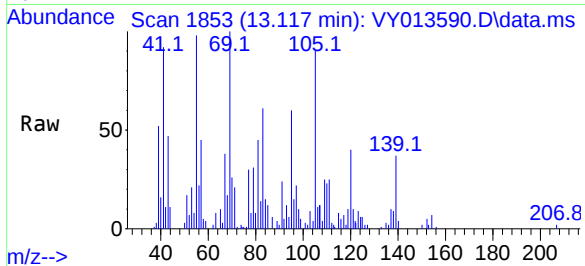




#84
1,2,4-Trimethylbenzene
Concen: 2.797 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY013590.D
Acq: 03 May 2023 18:31

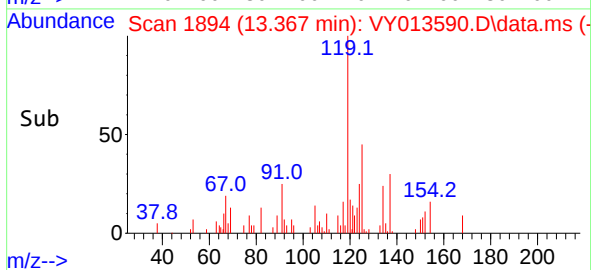
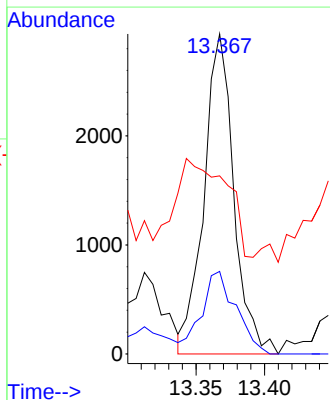
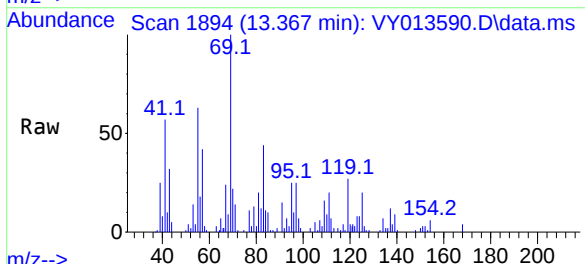
Instrument :
MSVOA_Y
ClientSampleId :
WO-4

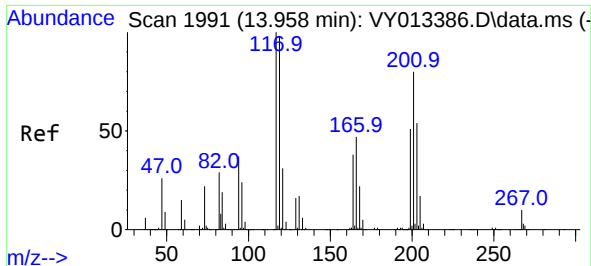
Tgt Ion:105 Resp: 7991
Ion Ratio Lower Upper
105 100
120 46.4 22.3 66.9



#86
p-Isopropyltoluene
Concen: 1.447 ug/l
RT: 13.367 min Scan# 1894
Delta R.T. 0.000 min
Lab File: VY013590.D
Acq: 03 May 2023 18:31

Tgt Ion:119 Resp: 4447
Ion Ratio Lower Upper
119 100
134 30.0 13.4 40.2
91 0.0 12.1 36.3#

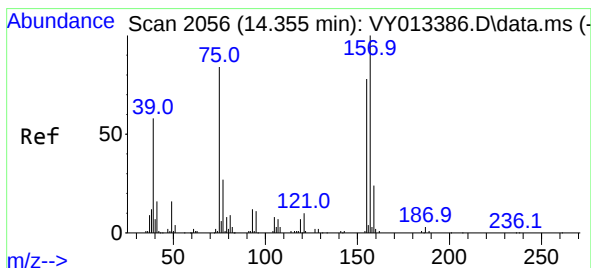
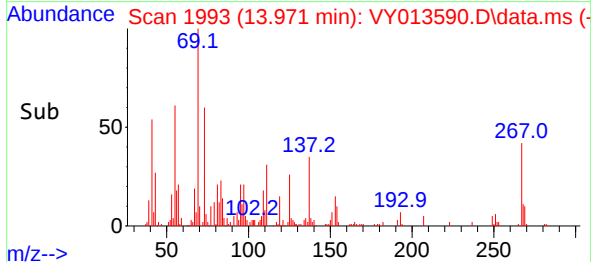
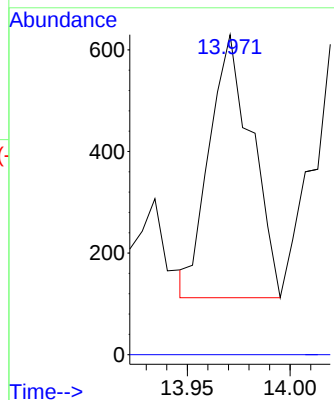
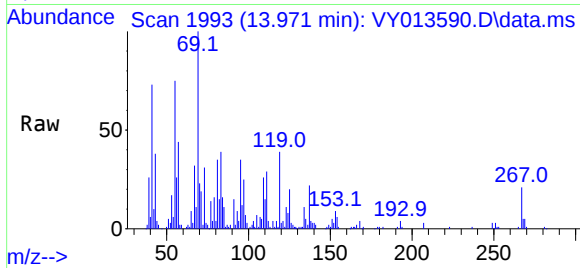




#90
Hexachloroethane
Concen: 1.149 ug/l
RT: 13.971 min Scan# 1993
Delta R.T. 0.013 min
Lab File: VY013590.D
Acq: 03 May 2023 18:31

Instrument :
MSVOA_Y
ClientSampleId :
WO-4

Tgt Ion:117 Resp: 743
Ion Ratio Lower Upper
117 100
201 0.0 41.6 124.8#



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.833 ug/l
RT: 14.367 min Scan# 2058
Delta R.T. 0.012 min
Lab File: VY013590.D
Acq: 03 May 2023 18:31

Tgt Ion: 75 Resp: 285
Ion Ratio Lower Upper
75 100
155 35.4 44.6 134.0#
157 0.0 57.6 172.7#

