

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050423\
 Data File : VY013605.D
 Acq On : 04 May 2023 17:13
 Operator : KP/MD
 Sample : 02505-04RE
 Misc : 3.96g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WO-4RE

Quant Time: May 05 01:00:39 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)

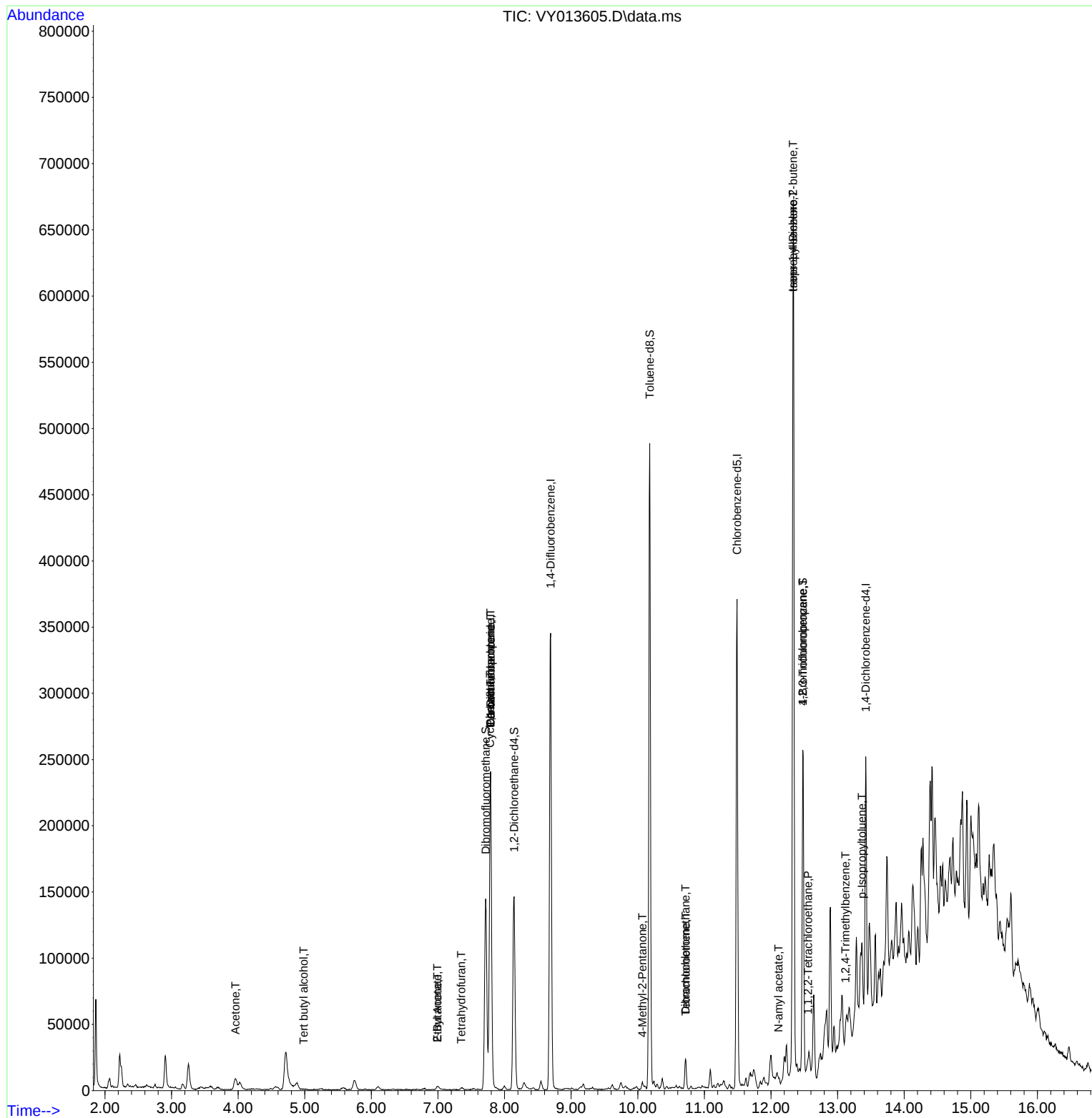
Internal Standards						
1) Pentafluorobenzene	7.789	168	185104	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	290135	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	196144	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	51026	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	121643	59.948	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 119.900%			
35) Dibromofluoromethane	7.716	113	99055	54.282	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 108.560%			
50) Toluene-d8	10.179	98	319044	49.147	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.300%			
62) 4-Bromofluorobenzene	12.477	95	68032	31.086	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 62.180%			
Target Compounds						Qvalue
11) Tert butyl alcohol	4.985	59	565	3.116	ug/l #	89
13) Acrolein	3.729	56	25	Below Cal	#	16
16) Acetone	3.960	43	19106	23.909	ug/l	92
25) 2-Butanone	6.990	43	5035	4.968	ug/l	100
29) Tetrahydrofuran	7.350	42	704	1.116	ug/l #	88
31) Cyclohexane	7.783	56	5081	1.399	ug/l #	62
36) 1,1-Dichloropropene	7.789	75	13886	4.585	ug/l #	50
37) Ethyl Acetate	6.990	43	5035	2.209	ug/l #	69
38) Carbon Tetrachloride	7.789	117	17756	5.594	ug/l #	15
51) 4-Methyl-2-Pentanone	10.069	43	3988	1.860	ug/l	97
60) Dibromochloromethane	10.715	129	4158	1.937	ug/l #	11
64) Tetrachloroethene	10.721	164	4889	3.278	ug/l	94
73) Isopropylbenzene	12.331	105	29169	7.558	ug/l #	64
74) N-amyl acetate	12.111	43	2857	2.080	ug/l #	44
75) 1,1,2,2-Tetrachloroethane	12.556	83	1487	1.576	ug/l #	51
76) 1,2,3-Trichloropropane	12.477	75	36959	53.708	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.331	75	1219	3.624	ug/l #	1
84) 1,2,4-Trimethylbenzene	13.117	105	5075	1.657	ug/l	80
86) p-Isopropyltoluene	13.367	119	26174	7.946	ug/l	92

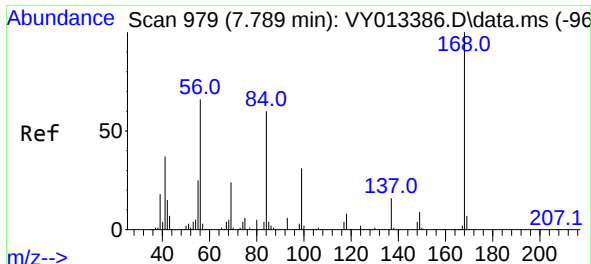
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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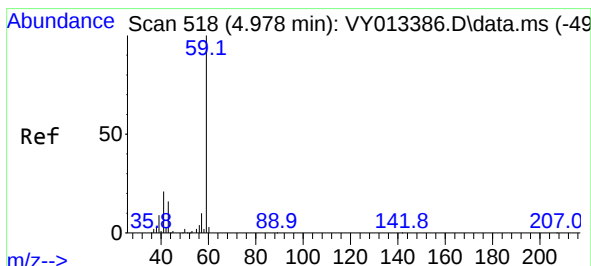
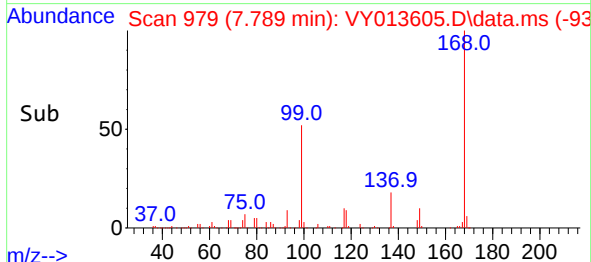
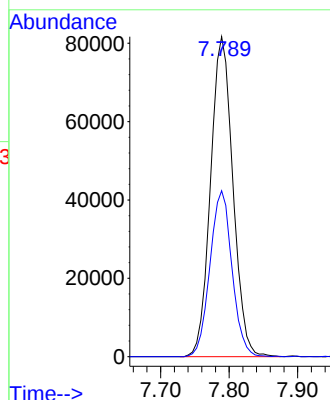
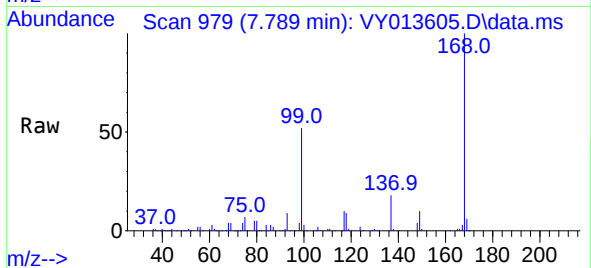




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY013605.D
Acq: 04 May 2023 17:13

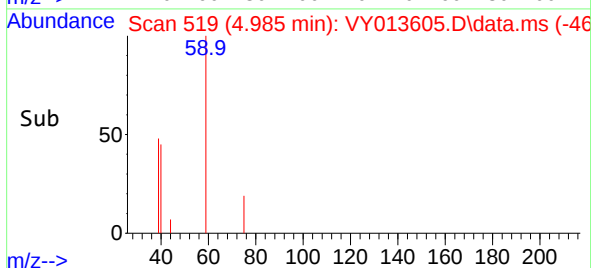
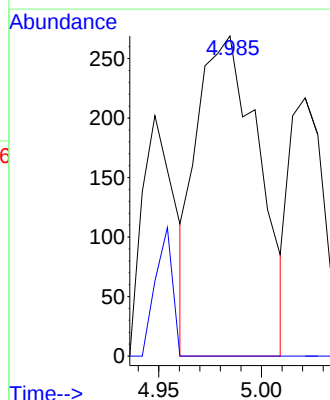
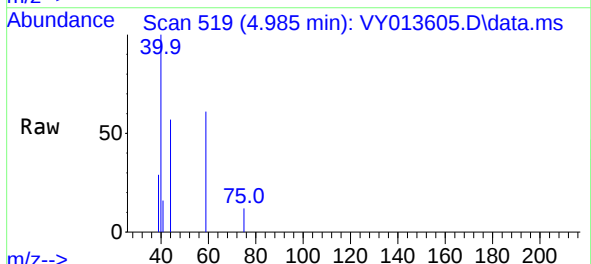
Instrument :
MSVOA_Y
ClientSampleId :
WO-4RE

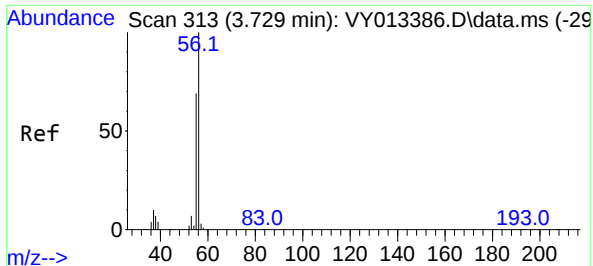
Tgt Ion:168 Resp: 185104
Ion Ratio Lower Upper
168 100
99 51.9 41.8 62.6



#11
Tert butyl alcohol
Concen: 3.116 ug/l
RT: 4.985 min Scan# 519
Delta R.T. 0.007 min
Lab File: VY013605.D
Acq: 04 May 2023 17:13

Tgt Ion: 59 Resp: 565
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.4#

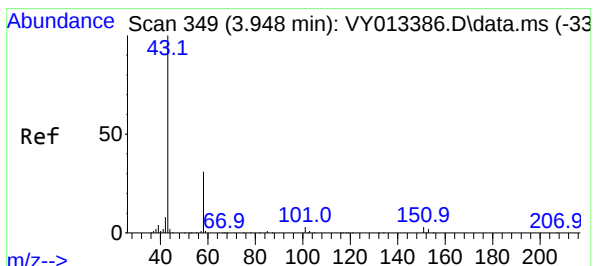
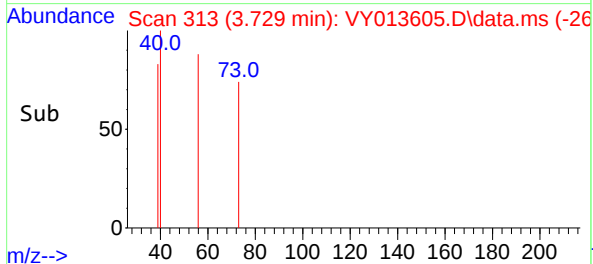
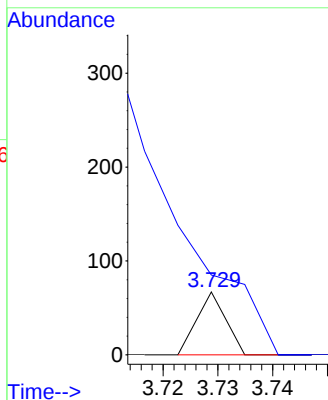
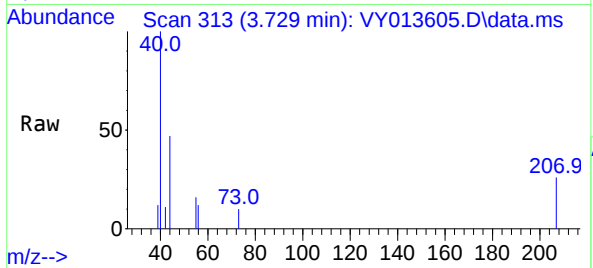




#13
Acrolein
Concen: Below Cal
RT: 3.729 min Scan# 313
Delta R.T. -0.000 min
Lab File: VY013605.D
Acq: 04 May 2023 17:13

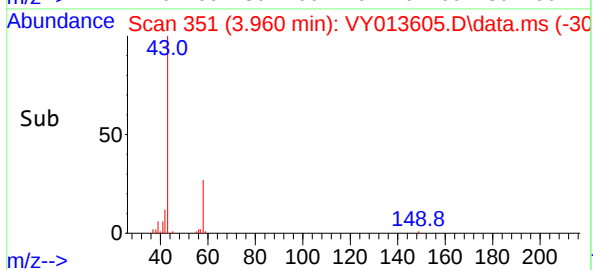
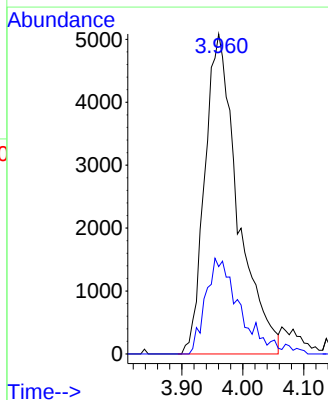
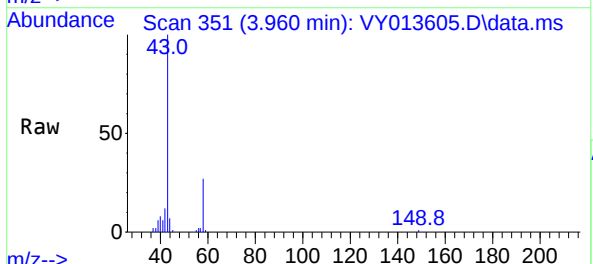
Instrument :
MSVOA_Y
ClientSampleId :
WO-4RE

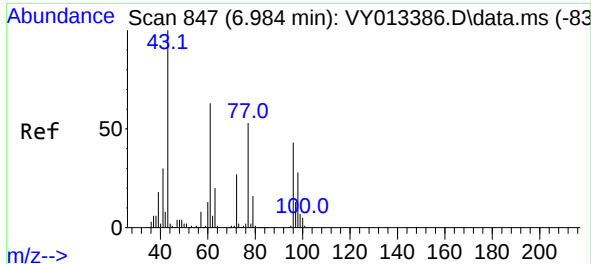
Tgt Ion: 56 Resp: 25
Ion Ratio Lower Upper
56 100
55 0.0 54.1 81.1#



#16
Acetone
Concen: 23.909 ug/l
RT: 3.960 min Scan# 351
Delta R.T. 0.012 min
Lab File: VY013605.D
Acq: 04 May 2023 17:13

Tgt Ion: 43 Resp: 19106
Ion Ratio Lower Upper
43 100
58 27.3 25.4 38.0

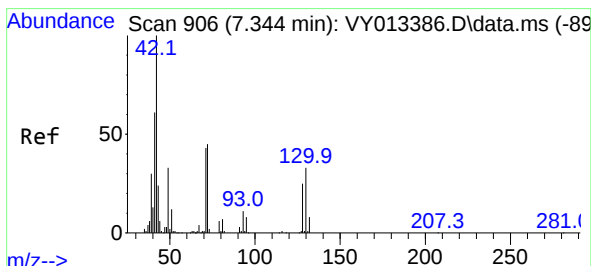
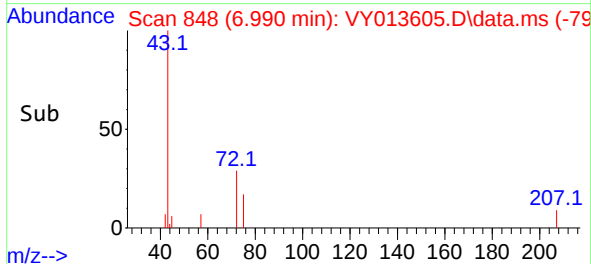
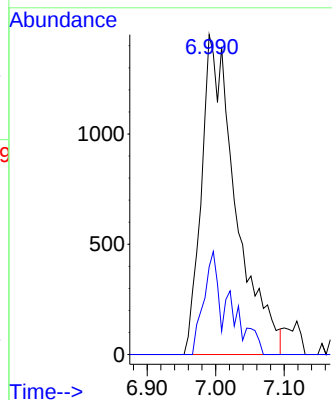
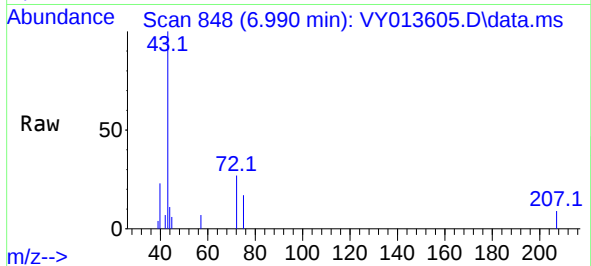




#25
2-Butanone
Concen: 4.968 ug/l
RT: 6.990 min Scan# 847
Delta R.T. 0.006 min
Lab File: VY013605.D
Acq: 04 May 2023 17:13

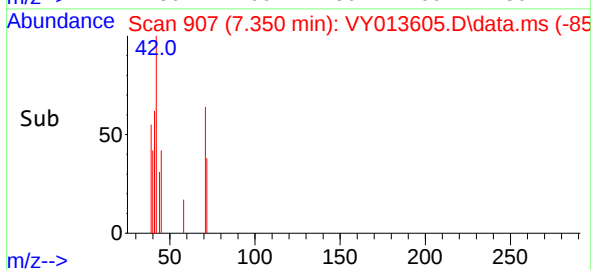
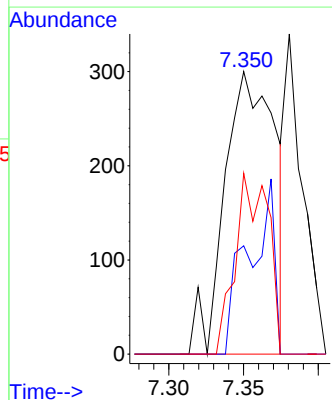
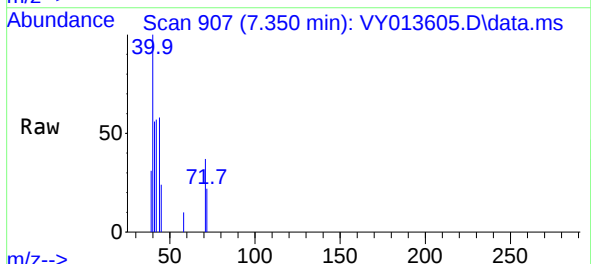
Instrument :
MSVOA_Y
ClientSampleId :
WO-4RE

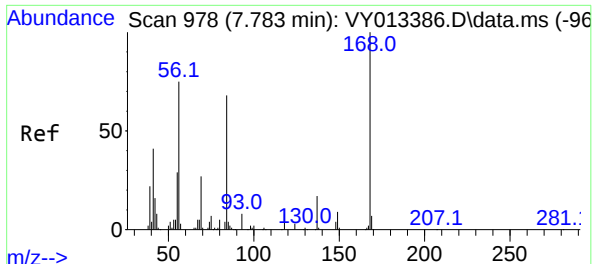
Tgt Ion: 43 Resp: 5035
Ion Ratio Lower Upper
43 100
72 27.4 21.9 32.9



#29
Tetrahydrofuran
Concen: 1.116 ug/l
RT: 7.350 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY013605.D
Acq: 04 May 2023 17:13

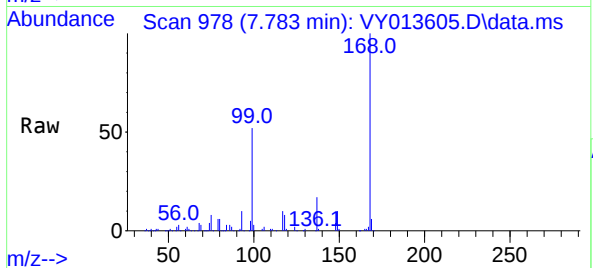
Tgt Ion: 42 Resp: 704
Ion Ratio Lower Upper
42 100
72 31.4 35.9 53.9#
71 41.5 34.3 51.5



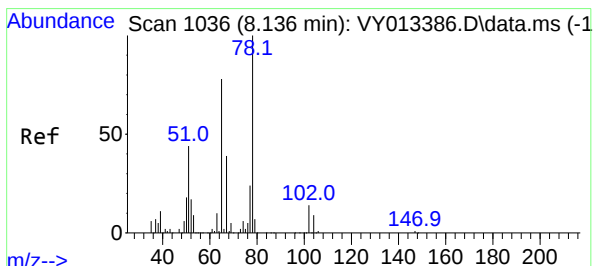
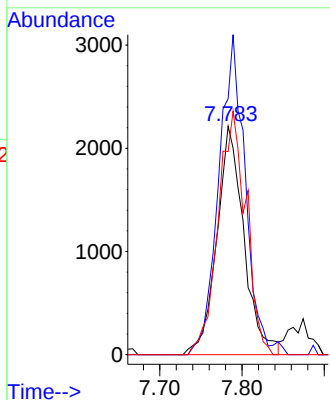
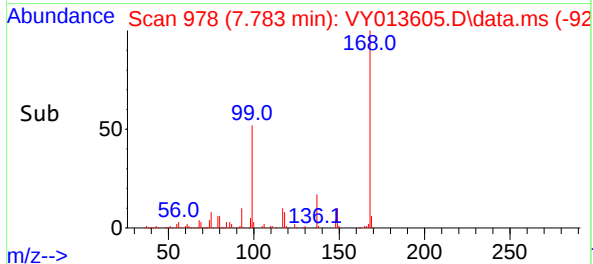


#31
Cyclohexane
Concen: 1.399 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY013605.D
Acq: 04 May 2023 17:13

Instrument :
MSVOA_Y
ClientSampleId :
WO-4RE

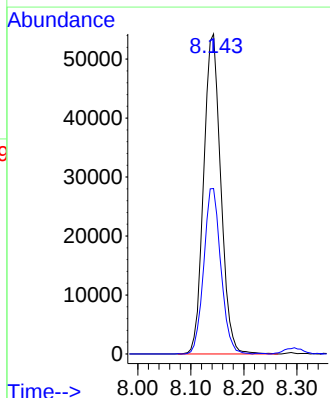
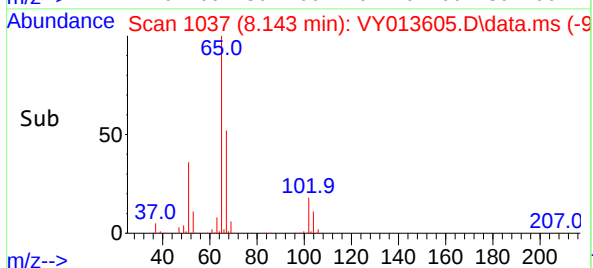
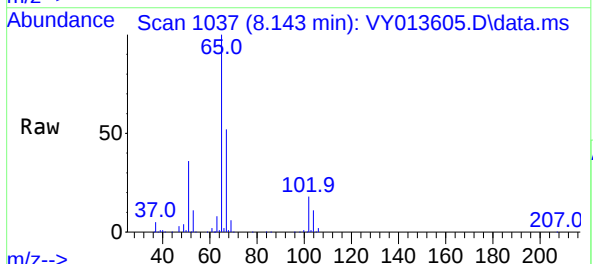


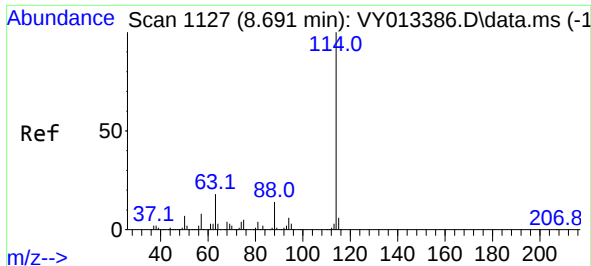
Tgt Ion: 56 Resp: 5081
Ion Ratio Lower Upper
56 100
69 112.0 29.2 43.8#
84 88.9 73.0 109.6



#33
1,2-Dichloroethane-d4
Concen: 59.948 ug/l
RT: 8.143 min Scan# 1037
Delta R.T. 0.007 min
Lab File: VY013605.D
Acq: 04 May 2023 17:13

Tgt Ion: 65 Resp: 121643
Ion Ratio Lower Upper
65 100
67 51.6 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY013605.D

Acq: 04 May 2023 17:13

Instrument :

MSVOA_Y

ClientSampleId :

WO-4RE

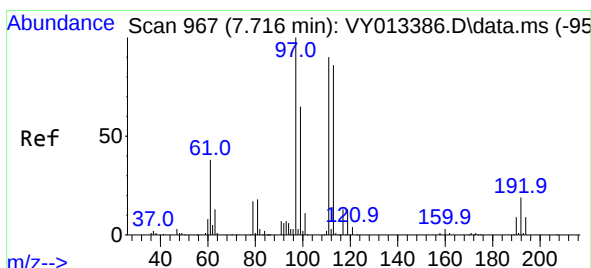
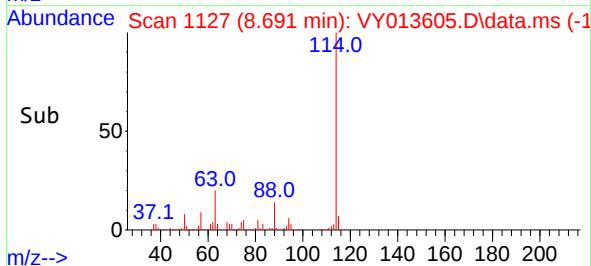
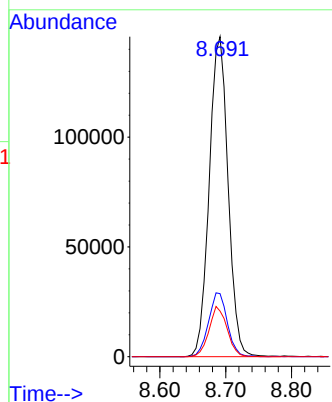
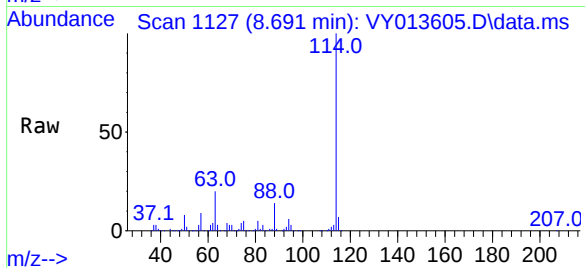
Tgt Ion:114 Resp: 290135

Ion Ratio Lower Upper

114 100

63 19.7 0.0 36.6

88 14.3 0.0 28.8



#35

Dibromofluoromethane

Concen: 54.282 ug/l

RT: 7.716 min Scan# 967

Delta R.T. -0.000 min

Lab File: VY013605.D

Acq: 04 May 2023 17:13

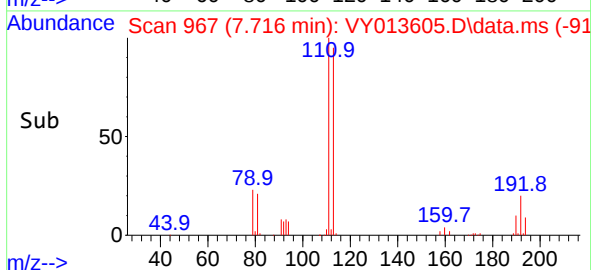
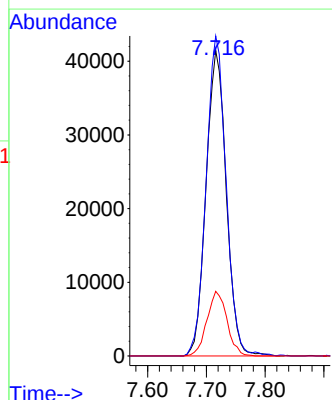
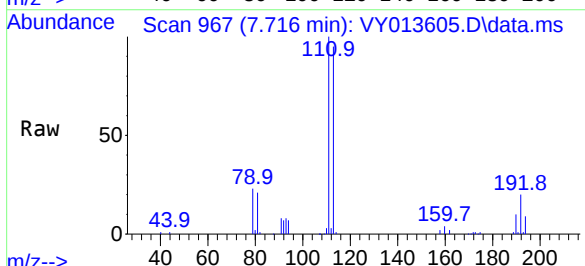
Tgt Ion:113 Resp: 99055

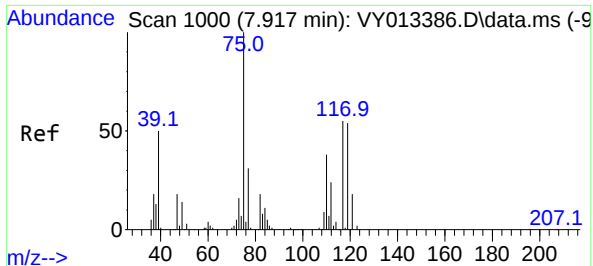
Ion Ratio Lower Upper

113 100

111 103.6 82.2 123.2

192 20.9 16.7 25.1





#36

1,1-Dichloropropene

Concen: 4.585 ug/l

RT: 7.789 min Scan# 91

Delta R.T. -0.128 min

Lab File: VY013605.D

Acq: 04 May 2023 17:13

Instrument :

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ClientSampleId :

WO-4RE

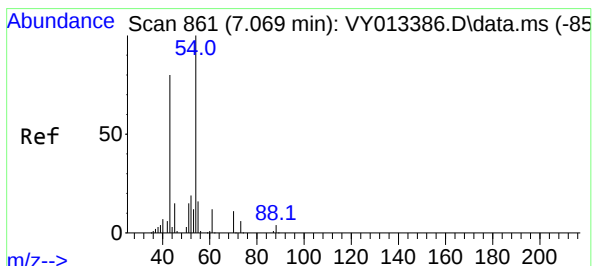
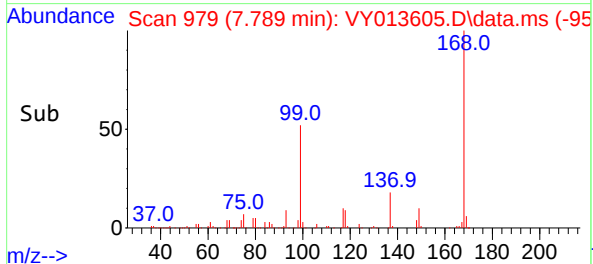
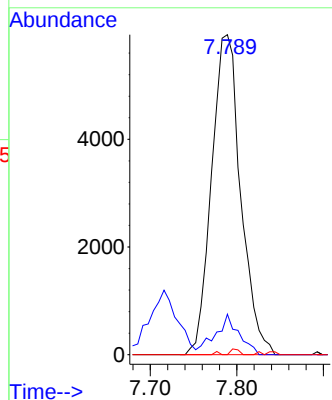
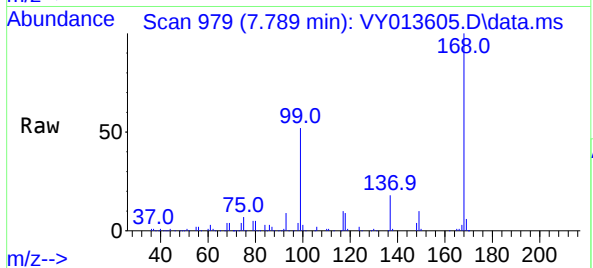
Tgt Ion: 75 Resp: 13886

Ion Ratio Lower Upper

75 100

110 10.2 18.7 56.1#

77 0.5 24.6 37.0#



#37

Ethyl Acetate

Concen: 2.209 ug/l

RT: 6.990 min Scan# 848

Delta R.T. -0.079 min

Lab File: VY013605.D

Acq: 04 May 2023 17:13

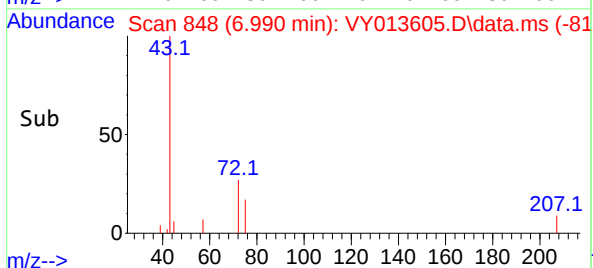
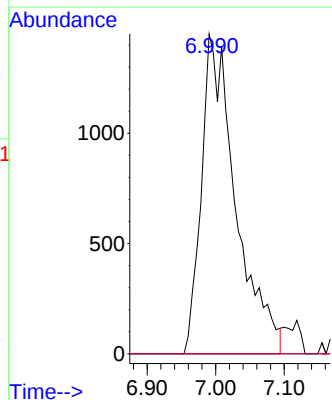
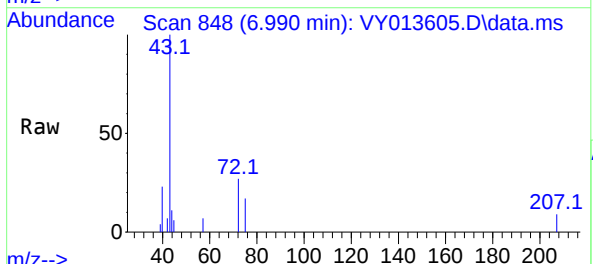
Tgt Ion: 43 Resp: 5035

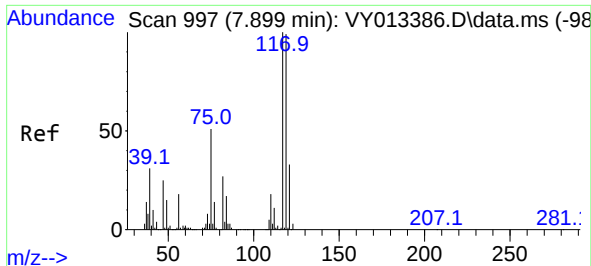
Ion Ratio Lower Upper

43 100

61 0.0 11.4 17.0#

70 0.0 7.9 11.9#

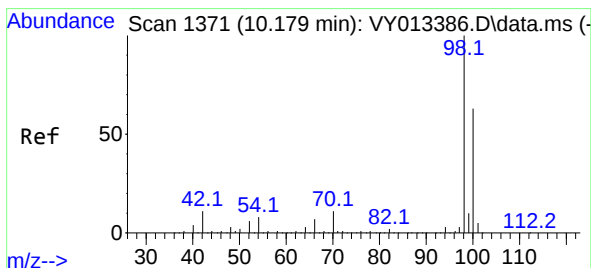
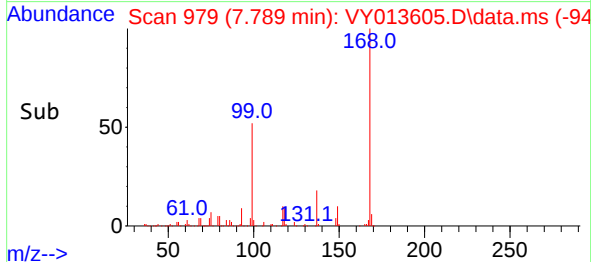
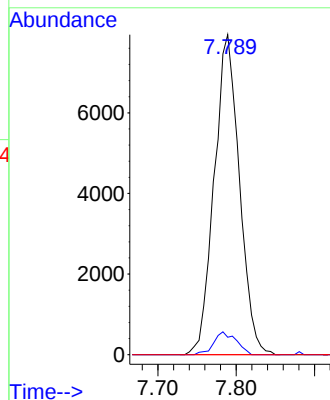
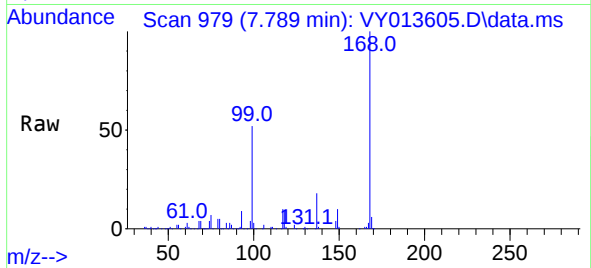




#38
Carbon Tetrachloride
Concen: 5.594 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY013605.D
Acq: 04 May 2023 17:13

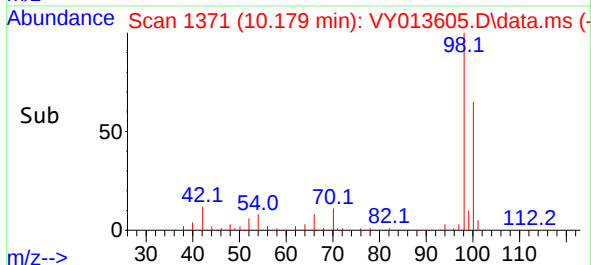
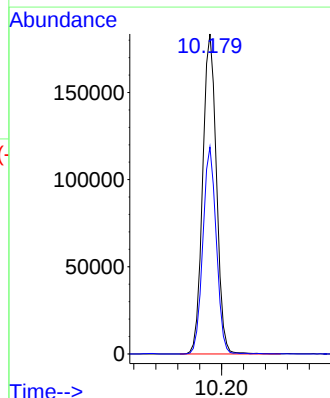
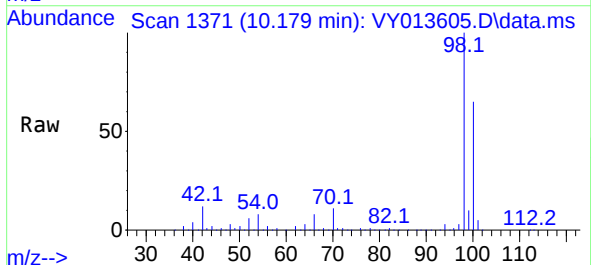
Instrument :
MSVOA_Y
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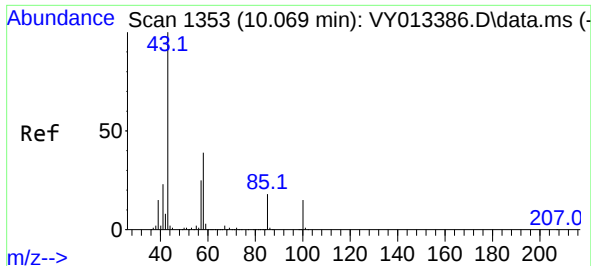
Tgt Ion:117 Resp: 17756
Ion Ratio Lower Upper
117 100
119 5.5 79.0 118.6#
121 0.0 26.6 40.0#



#50
Toluene-d8
Concen: 49.147 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY013605.D
Acq: 04 May 2023 17:13

Tgt Ion: 98 Resp: 319044
Ion Ratio Lower Upper
98 100
100 63.1 50.5 75.7

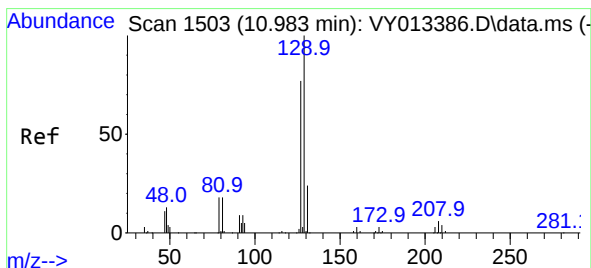
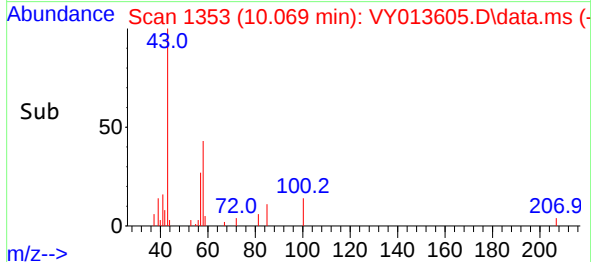
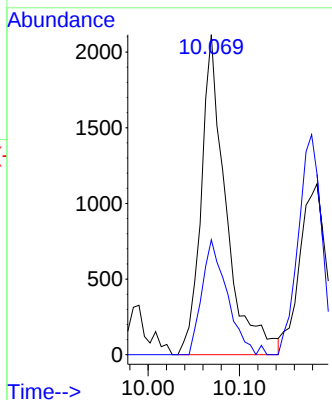
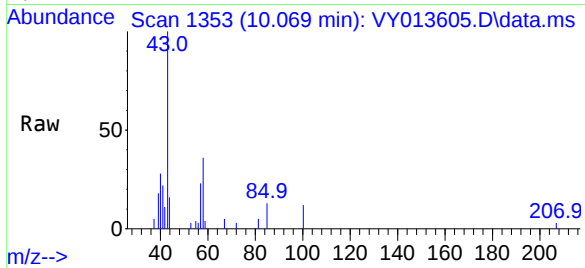




#51
4-Methyl-2-Pentanone
Concen: 1.860 ug/l
RT: 10.069 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY013605.D
Acq: 04 May 2023 17:13

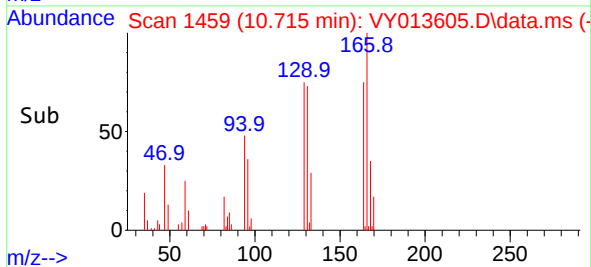
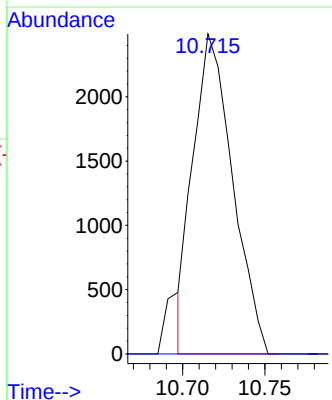
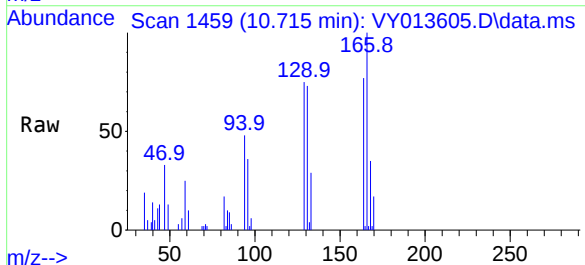
Instrument :
MSVOA_Y
ClientSampleId :
WO-4RE

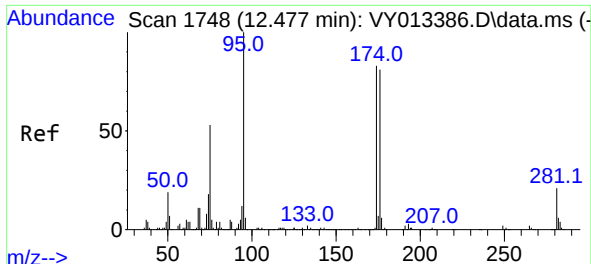
Tgt Ion: 43 Resp: 3988
Ion Ratio Lower Upper
43 100
58 36.5 30.6 46.0



#60
Dibromochloromethane
Concen: 1.937 ug/l
RT: 10.715 min Scan# 1459
Delta R.T. -0.268 min
Lab File: VY013605.D
Acq: 04 May 2023 17:13

Tgt Ion: 129 Resp: 4158
Ion Ratio Lower Upper
129 100
127 0.0 38.7 116.1#

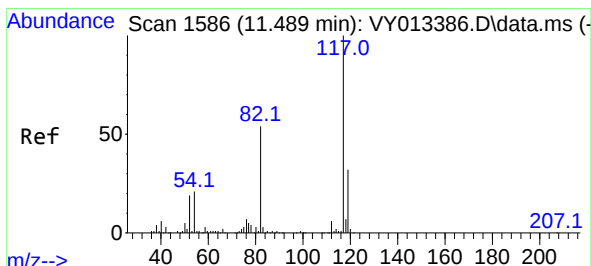
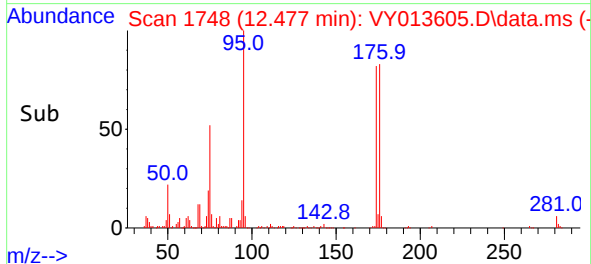
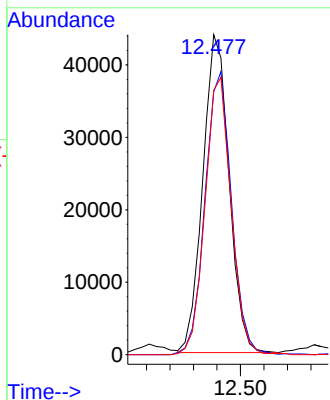
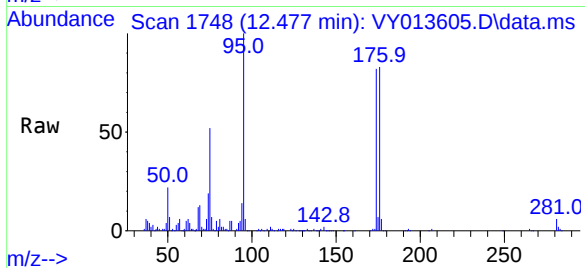




#62
4-Bromofluorobenzene
Concen: 31.086 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY013605.D
Acq: 04 May 2023 17:13

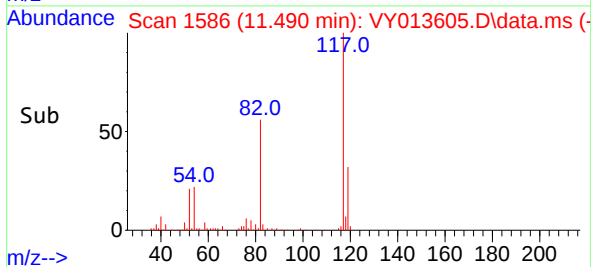
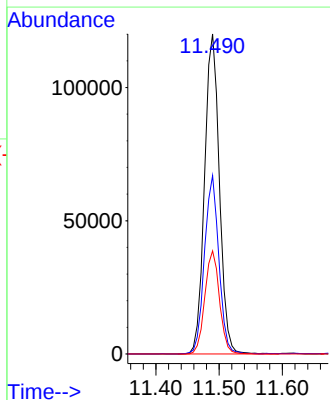
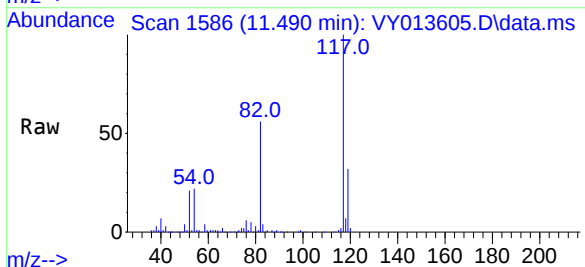
Instrument :
MSVOA_Y
ClientSampleId :
WO-4RE

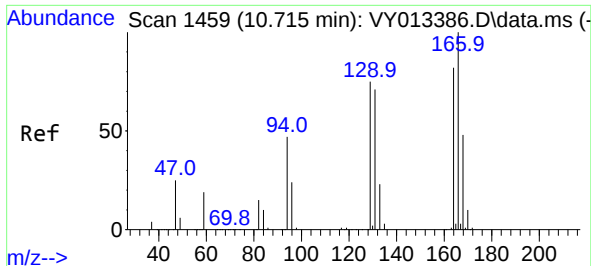
Tgt Ion: 95 Resp: 68032
Ion Ratio Lower Upper
95 100
174 90.0 0.0 182.0
176 86.9 0.0 175.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1586
Delta R.T. 0.001 min
Lab File: VY013605.D
Acq: 04 May 2023 17:13

Tgt Ion: 117 Resp: 196144
Ion Ratio Lower Upper
117 100
82 55.7 43.0 64.6
119 32.2 25.5 38.3



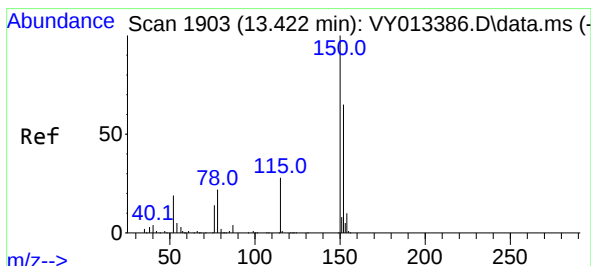
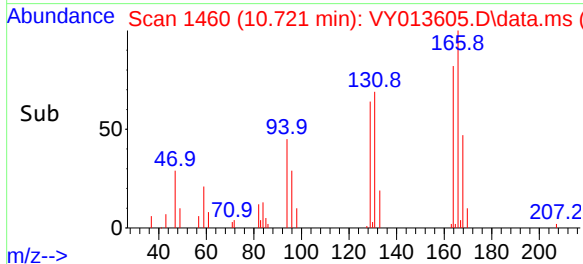
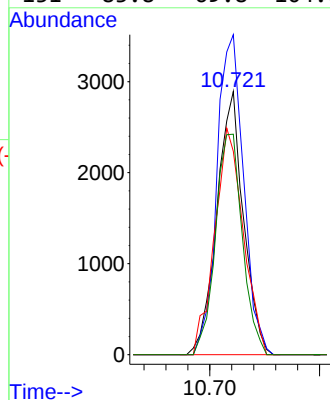
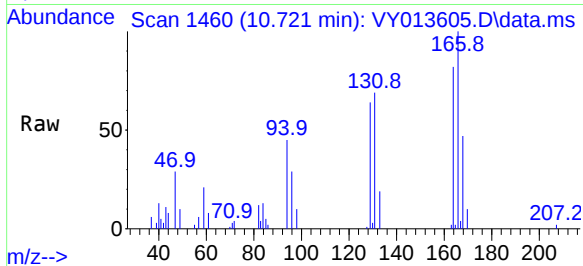


#64
Tetrachloroethene
Concen: 3.278 ug/l
RT: 10.721 min Scan# 1459
Delta R.T. 0.006 min
Lab File: VY013605.D
Acq: 04 May 2023 17:13

Instrument :
MSVOA_Y
ClientSampleId :
WO-4RE

Tgt Ion:164 Resp: 4889

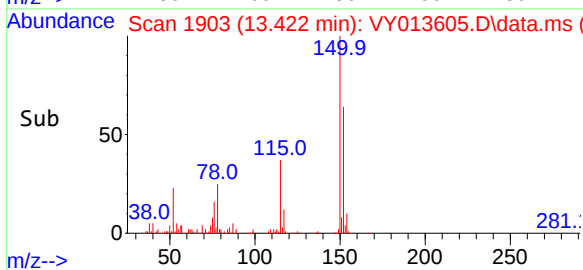
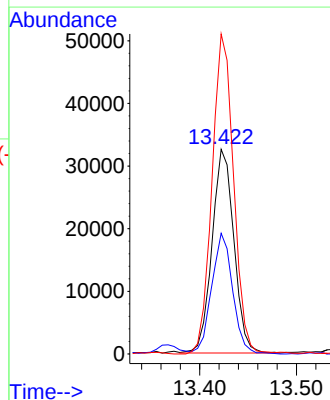
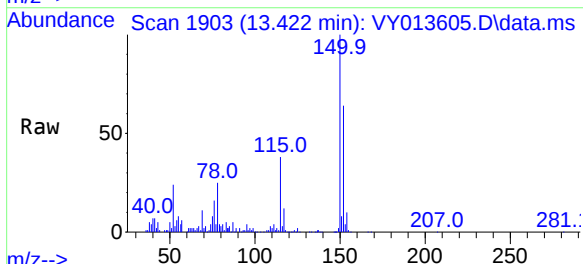
Ion	Ratio	Lower	Upper
164	100		
166	121.6	97.5	146.3
129	77.2	72.6	109.0
131	83.8	69.8	104.6

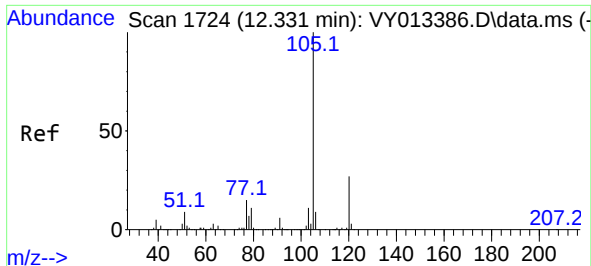


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY013605.D
Acq: 04 May 2023 17:13

Tgt Ion:152 Resp: 51026

Ion	Ratio	Lower	Upper
152	100		
115	56.9	28.1	84.2
150	155.5	0.0	352.0

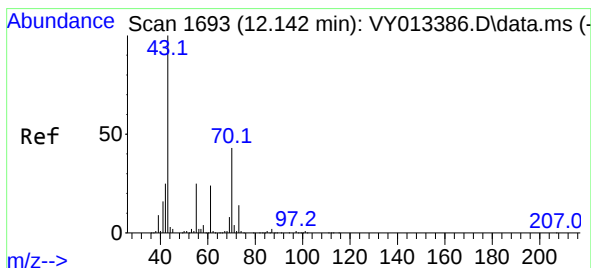
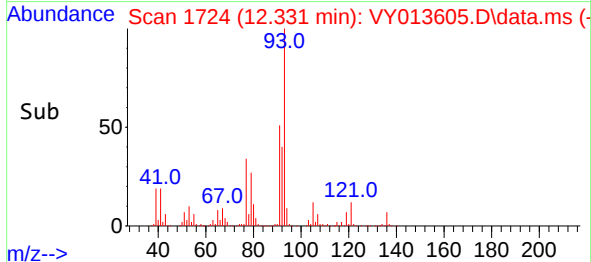
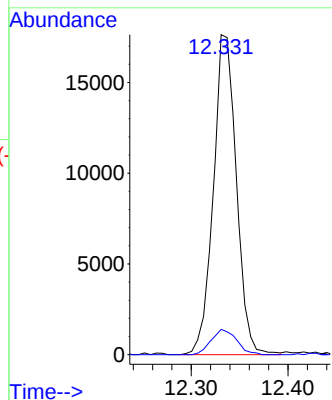
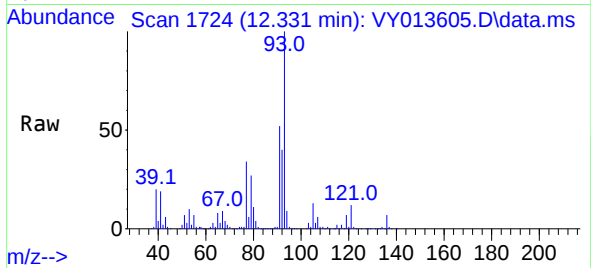




#73
Isopropylbenzene
Concen: 7.558 ug/l
RT: 12.331 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY013605.D
Acq: 04 May 2023 17:13

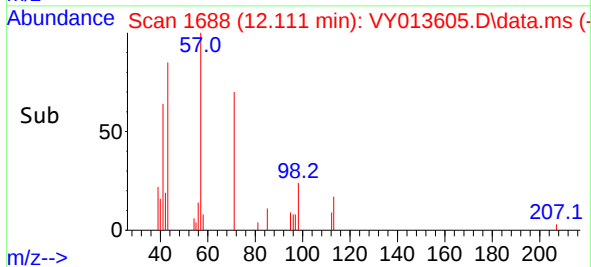
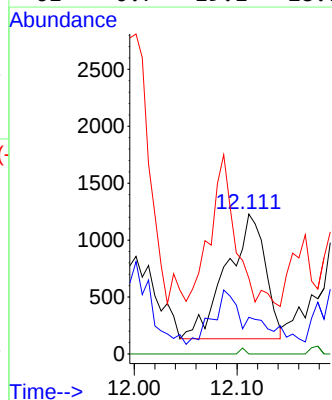
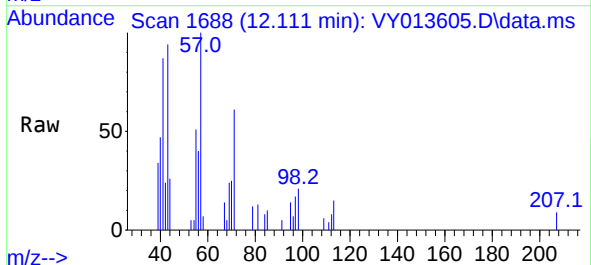
Instrument :
MSVOA_Y
ClientSampleId :
WO-4RE

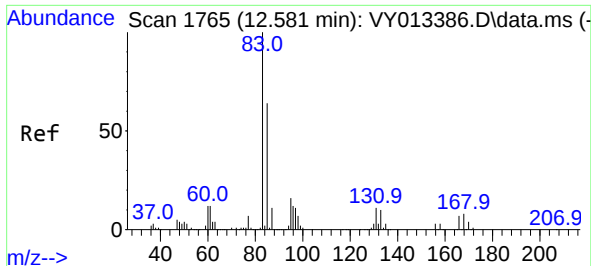
Tgt Ion:105 Resp: 29169
Ion Ratio Lower Upper
105 100
120 8.7 13.7 41.0#



#74
N-ethyl acetate
Concen: 2.080 ug/l
RT: 12.111 min Scan# 1688
Delta R.T. -0.031 min
Lab File: VY013605.D
Acq: 04 May 2023 17:13

Tgt Ion: 43 Resp: 2857
Ion Ratio Lower Upper
43 100
70 0.0 33.0 49.4#
55 0.0 19.8 29.6#
61 0.7 19.1 28.7#

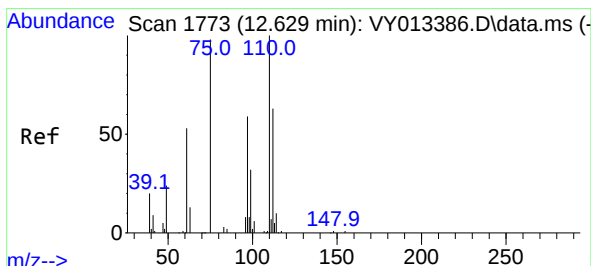
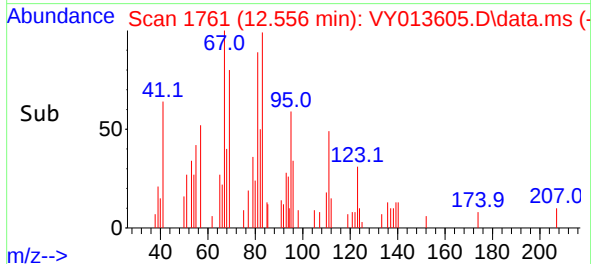
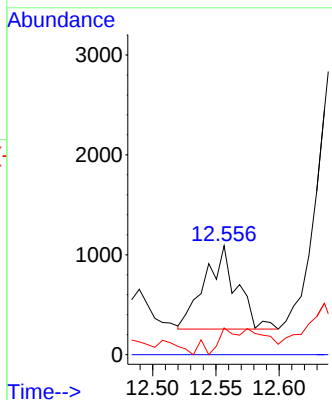
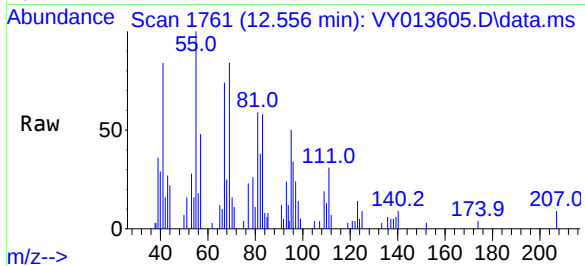




#75
1,1,2,2-Tetrachloroethane
Concen: 1.576 ug/l
RT: 12.556 min Scan# 11
Delta R.T. -0.025 min
Lab File: VY013605.D
Acq: 04 May 2023 17:13

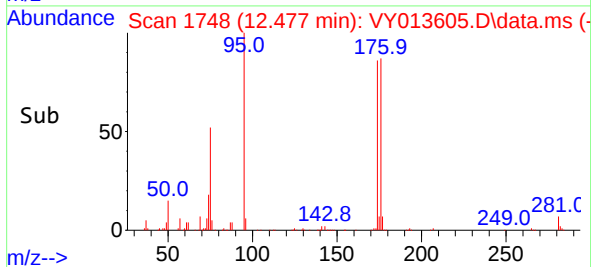
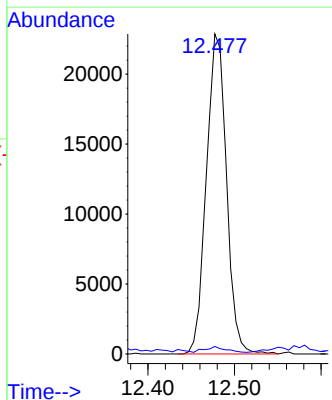
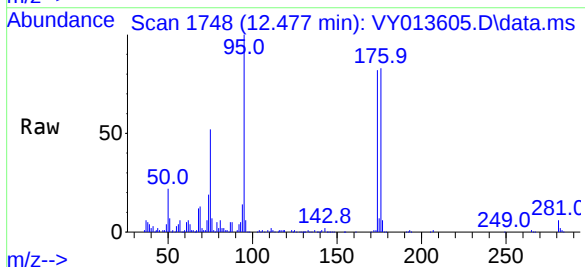
Instrument :
MSVOA_Y
ClientSampleId :
WO-4RE

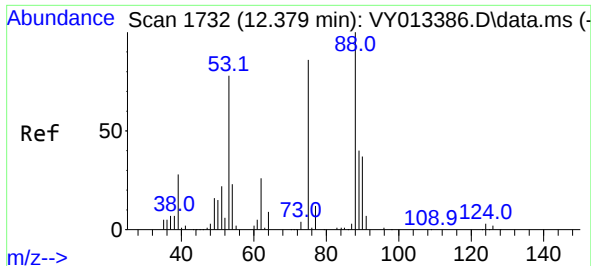
Tgt Ion: 83 Resp: 1487
Ion Ratio Lower Upper
83 100
131 0.0 5.7 17.0#
85 22.3 31.8 95.4#



#76
1,2,3-Trichloropropane
Concen: 53.708 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.152 min
Lab File: VY013605.D
Acq: 04 May 2023 17:13

Tgt Ion: 75 Resp: 36959
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0

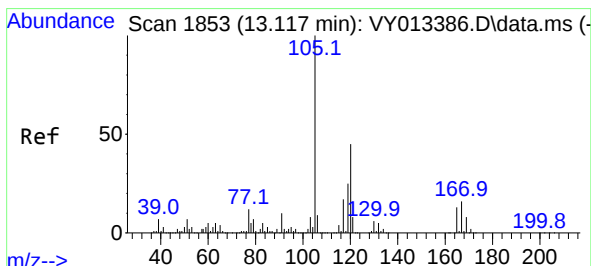
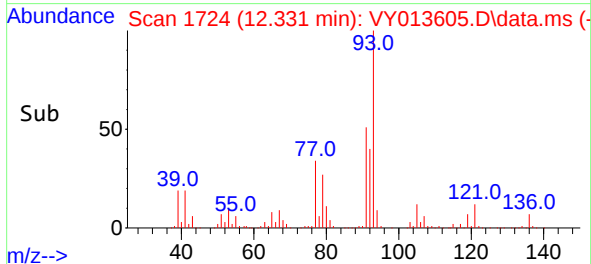
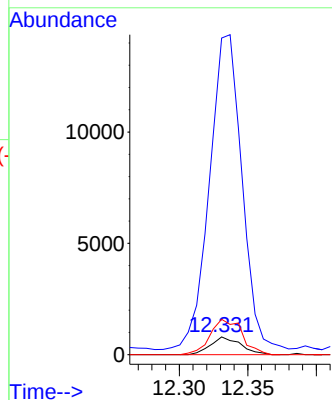
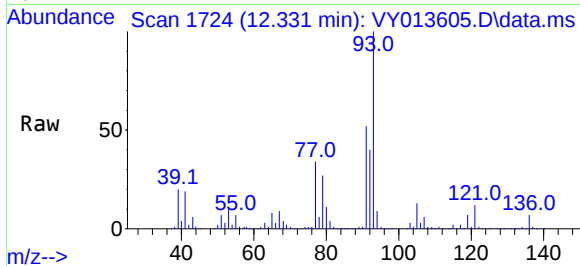




#81
trans-1,4-Dichloro-2-butene
Concen: 3.624 ug/l
RT: 12.331 min Scan# 11
Delta R.T. -0.048 min
Lab File: VY013605.D
Acq: 04 May 2023 17:13

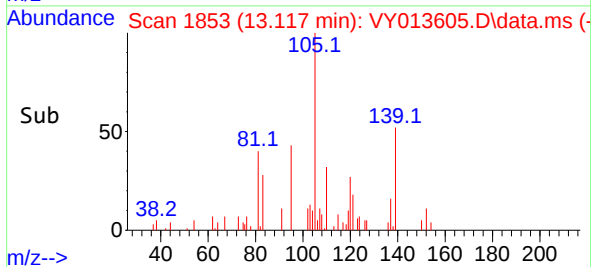
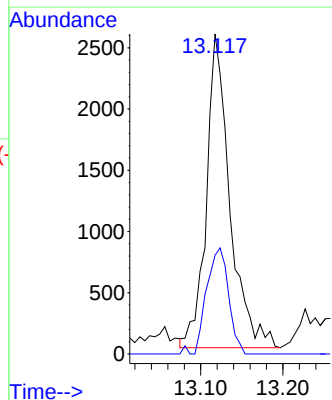
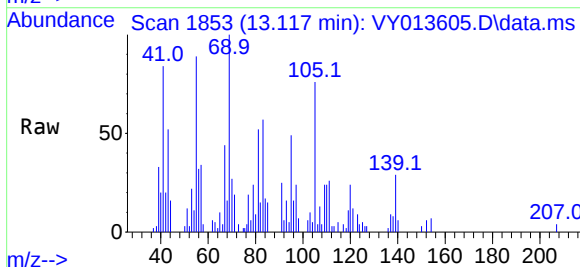
Instrument :
MSVOA_Y
ClientSampleId :
WO-4RE

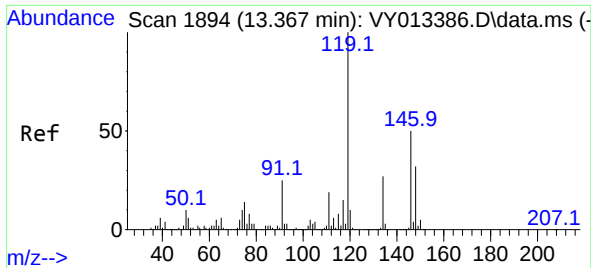
Tgt Ion: 75 Resp: 1219
Ion Ratio Lower Upper
75 100
53 1906.7 73.2 109.8#
89 212.4 38.0 57.0#



#84
1,2,4-Trimethylbenzene
Concen: 1.657 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY013605.D
Acq: 04 May 2023 17:13

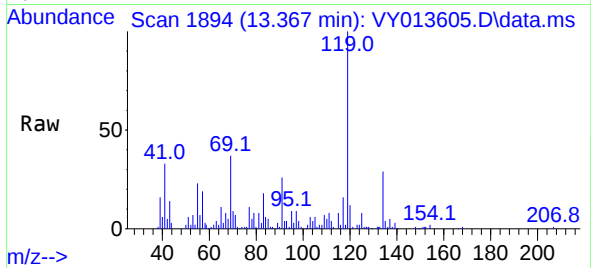
Tgt Ion:105 Resp: 5075
Ion Ratio Lower Upper
105 100
120 31.9 22.3 66.9





#86
 p-Isopropyltoluene
 Concen: 7.946 ug/l
 RT: 13.367 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VY013605.D
 Acq: 04 May 2023 17:13

Instrument :
 MSVOA_Y
 ClientSampleId :
 WO-4RE



Tgt Ion:	119	Resp:	26174
Ion	Ratio	Lower	Upper
119	100		
134	27.6	13.4	40.2
91	31.9	12.1	36.3

