

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041221\
 Data File : VY004388.D
 Acq On : 12 Apr 2021 16:50
 Operator : SY/MD
 Sample : M1998-07
 Misc : 4.06G/5ML/MSVOA_Y/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Apr 13 03:55:48 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y041221S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 13 03:38:02 2021
 Response via : Initial Calibration

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

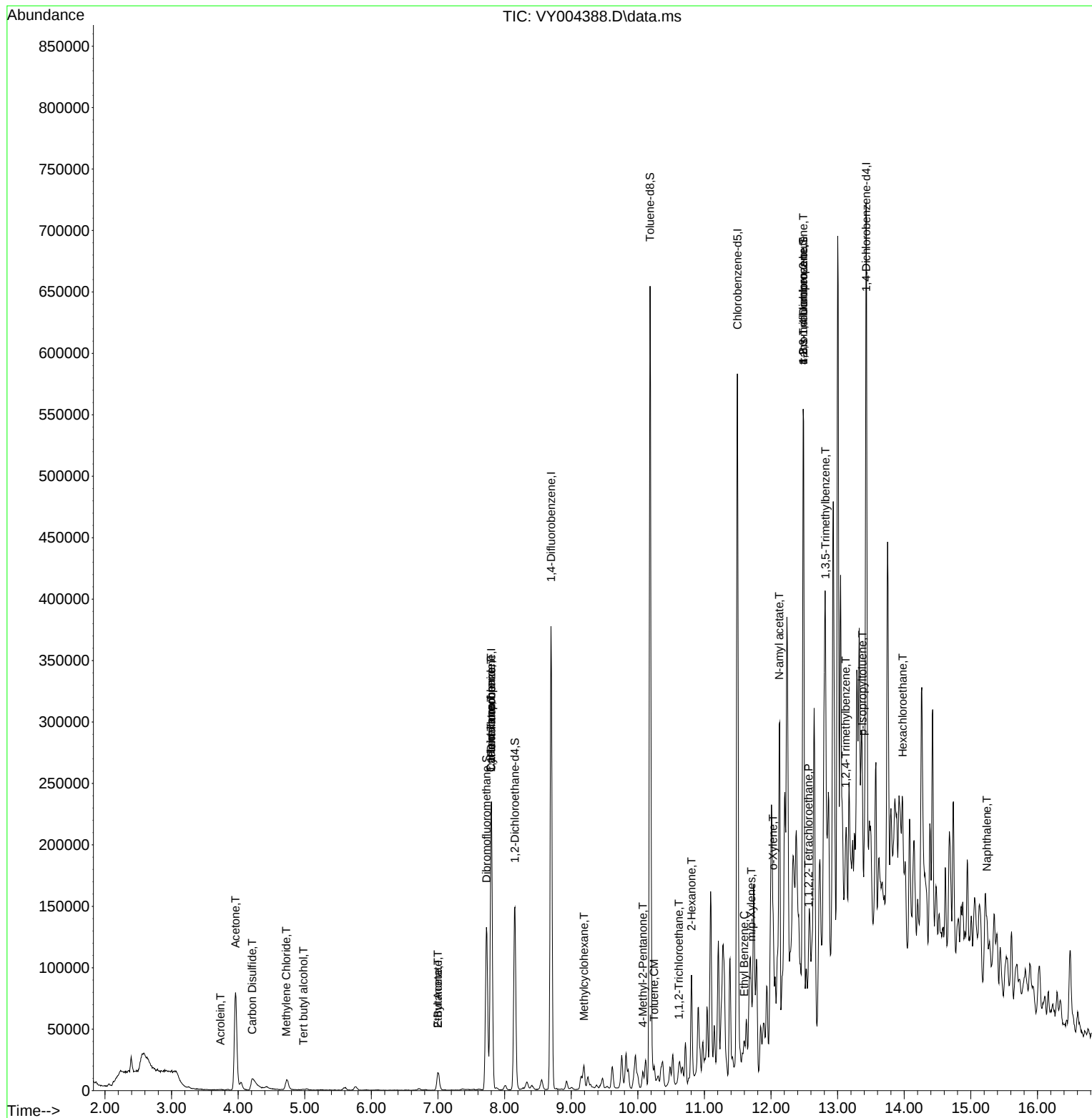
Internal Standards						
1) Pentafluorobenzene	7.801	168	179012	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.697	114	307334	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.495	117	289571	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	139731	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.155	65	116673	58.66	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 117.32%			
35) Dibromofluoromethane	7.728	113	92250	54.09	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 108.18%			
50) Toluene-d8	10.185	98	378238	52.14	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 104.28%			
62) 4-Bromofluorobenzene	12.483	95	137644	55.91	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 111.82%			
Target Compounds						Qvalue
11) Tert butyl alcohol	4.978	59	778	3.97	ug/l #	73
13) Acrolein	3.735	56	564	2.59	ug/l	94
16) Acetone	3.960	43	141036	341.10	ug/l	100
17) Carbon Disulfide	4.210	76	13723	2.56	ug/l	99
20) Methylene Chloride	4.722	84	6080	3.16	ug/l #	83
25) 2-Butanone	6.996	43	25875	34.15	ug/l	97
31) Cyclohexane	7.795	56	4598	1.26	ug/l #	34
36) 1,1-Dichloropropene	7.795	75	14580	4.77	ug/l #	50
37) Ethyl Acetate	6.996	43	25875	13.16	ug/l #	70
38) Carbon Tetrachloride	7.795	117	17518	6.64	ug/l #	16
39) Methylcyclohexane	9.191	83	5209	1.39	ug/l	92
51) 4-Methyl-2-Pentanone	10.075	43	5445	2.84	ug/l	91
52) Toluene	10.246	92	5946	1.07	ug/l	98
55) 1,1,2-Trichloroethane	10.617	97	6466	3.89	ug/l #	20
59) 2-Hexanone	10.806	43	37960	29.57	ug/l #	31
67) Ethyl Benzene	11.599	91	11300	1.02	ug/l	97
68) m/p-Xylenes	11.703	106	11259	2.74	ug/l	99
69) o-Xylene	12.032	106	12711	3.30	ug/l	100
74) N-amyl acetate	12.123	43	68438	18.83	ug/l #	60
75) 1,1,2,2-Tetrachloroethane	12.562	83	5651	2.77	ug/l #	63
76) 1,2,3-Trichloropropane	12.483	75	73924	49.29	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.818	105	15479	1.76	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.483	75	73924	88.18	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.123	105	22037	2.49	ug/l	97
86) p-Isopropyltoluene	13.373	119	26378	2.77	ug/l	98
90) Hexachloroethane	13.977	117	2453	1.92	ug/l #	13
95) Naphthalene	15.239	128	24801	4.30	ug/l #	93

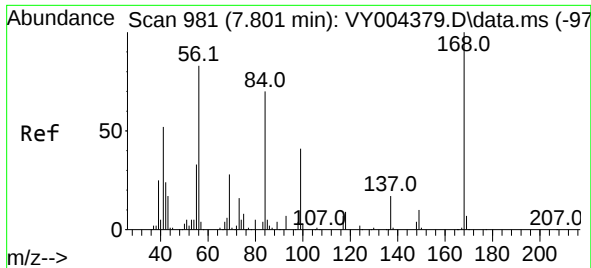
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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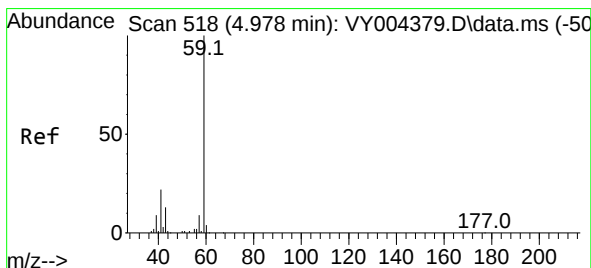
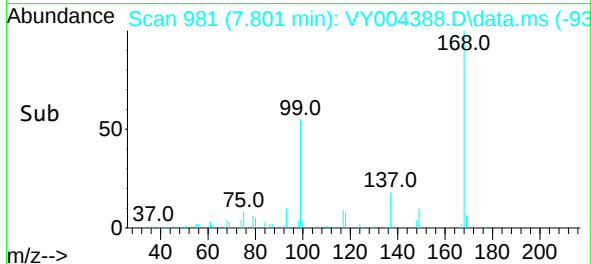
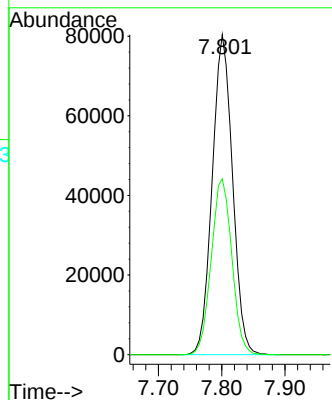
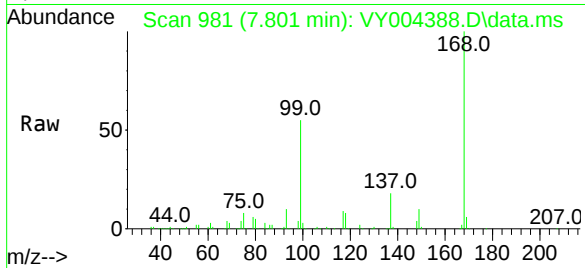




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.801 min Scan# 981
Delta R.T. -0.000 min
Lab File: VY004388.D
Acq: 12 Apr 2021 16:50

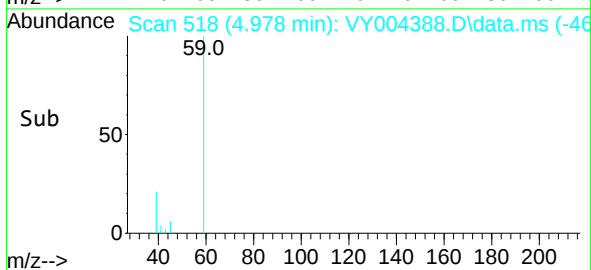
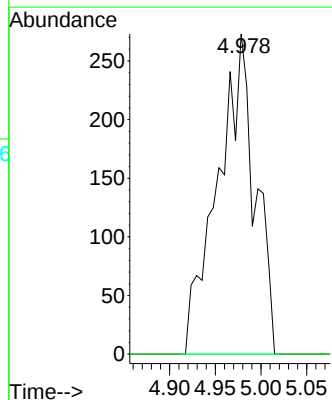
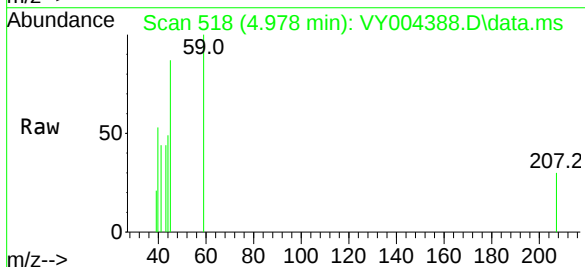
Instrument :
MSVOA_Y
ClientSampled :

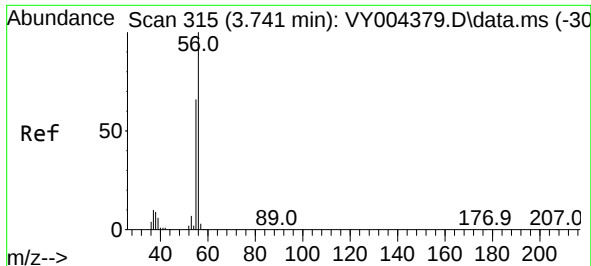
Tgt Ion:168 Resp: 179012
Ion Ratio Lower Upper
168 100
99 55.0 45.5 68.3



#11
Tert butyl alcohol
Concen: 3.97 ug/l
RT: 4.978 min Scan# 518
Delta R.T. 0.000 min
Lab File: VY004388.D
Acq: 12 Apr 2021 16:50

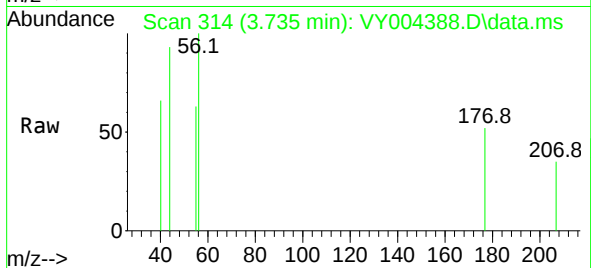
Tgt Ion: 59 Resp: 778
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#



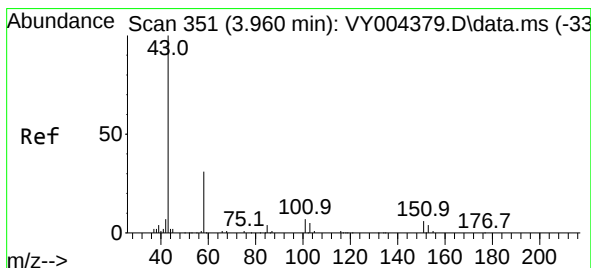
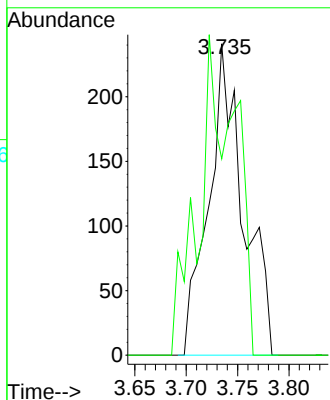
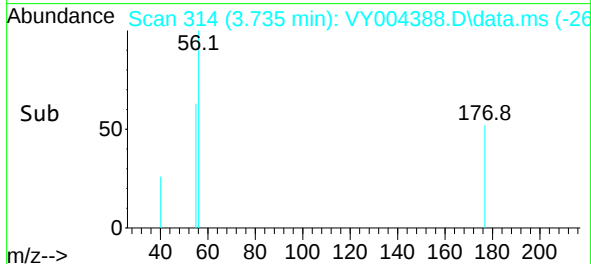


#13
Acrolein
Concen: 2.59 ug/l
RT: 3.735 min Scan# 314
Delta R.T. -0.006 min
Lab File: VY004388.D
Acq: 12 Apr 2021 16:50

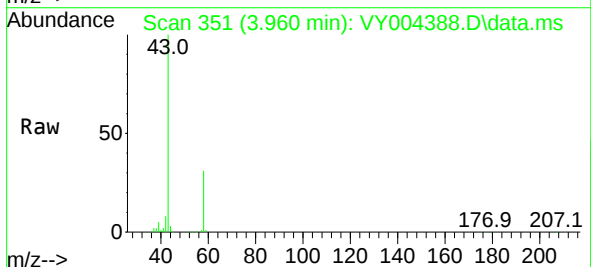
Instrument :
MSVOA_Y
ClientSampled :



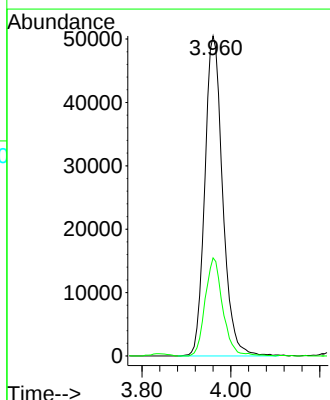
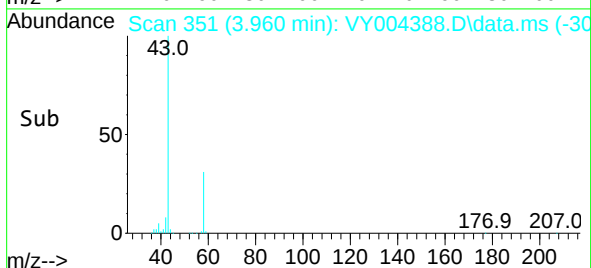
Tgt Ion: 56 Resp: 564
Ion Ratio Lower Upper
56 100
55 64.7 55.4 83.2

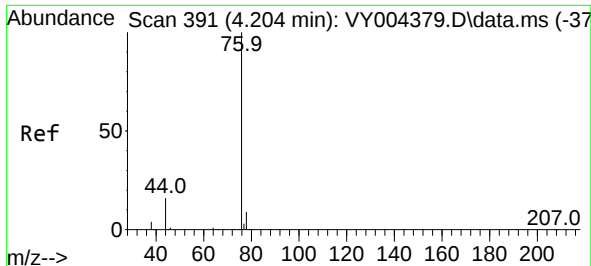


#16
Acetone
Concen: 341.10 ug/l
RT: 3.960 min Scan# 351
Delta R.T. 0.000 min
Lab File: VY004388.D
Acq: 12 Apr 2021 16:50



Tgt Ion: 43 Resp: 141036
Ion Ratio Lower Upper
43 100
58 30.6 24.6 37.0

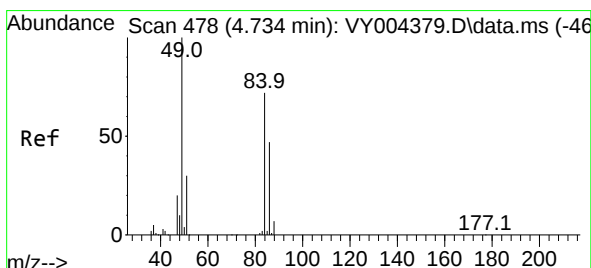
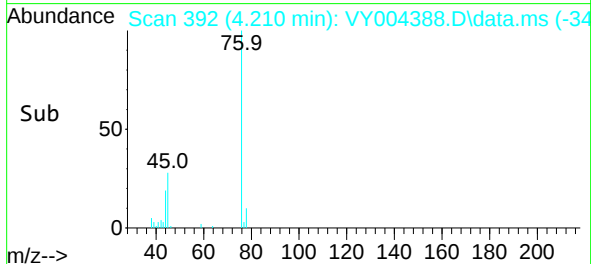
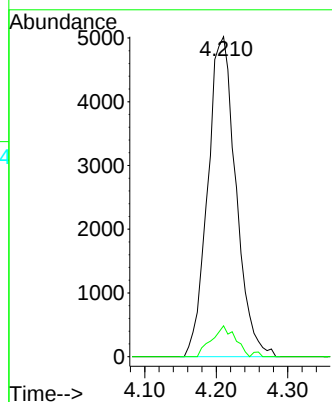
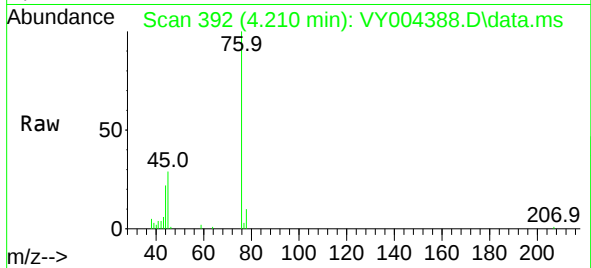




#17
Carbon Disulfide
Concen: 2.56 ug/l
RT: 4.210 min Scan# 392
Delta R.T. 0.006 min
Lab File: VY004388.D
Acq: 12 Apr 2021 16:50

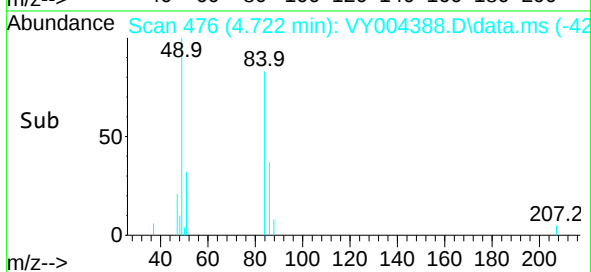
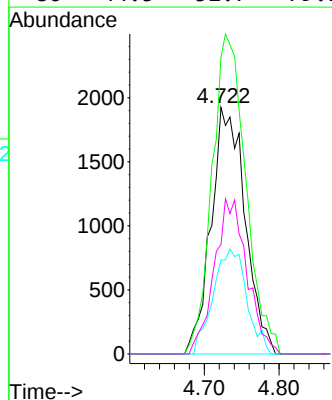
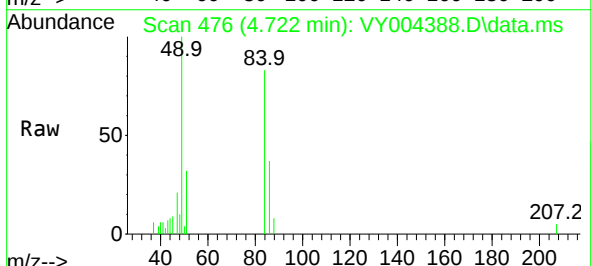
Instrument :
MSVOA_Y
ClientSampled :

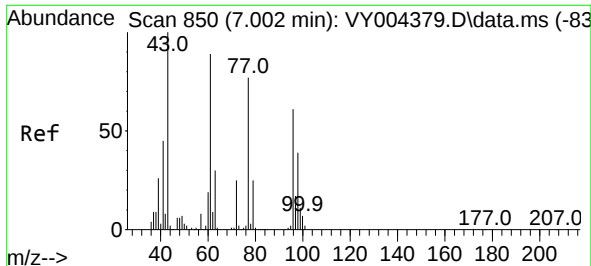
Tgt Ion: 76 Resp: 13723
Ion Ratio Lower Upper
76 100
78 9.6 7.4 11.2



#20
Methylene Chloride
Concen: 3.16 ug/l
RT: 4.722 min Scan# 476
Delta R.T. -0.012 min
Lab File: VY004388.D
Acq: 12 Apr 2021 16:50

Tgt Ion: 84 Resp: 6080
Ion Ratio Lower Upper
84 100
49 120.5 111.2 166.8
51 38.1 33.4 50.2
86 44.5 52.7 79.1#

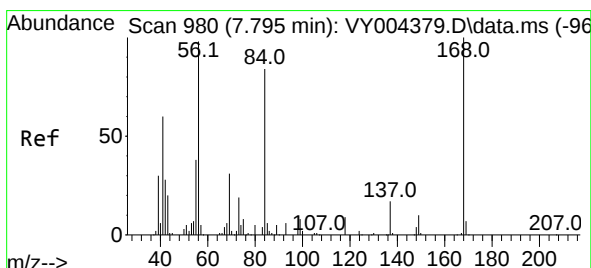
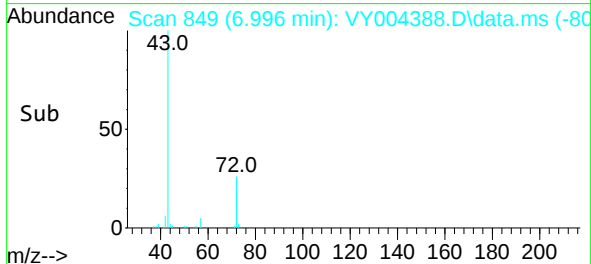
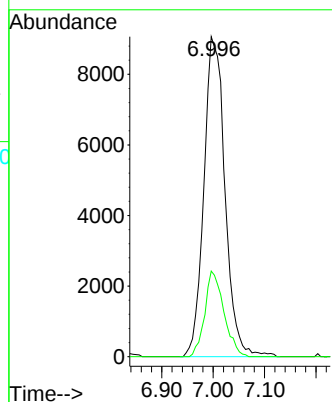
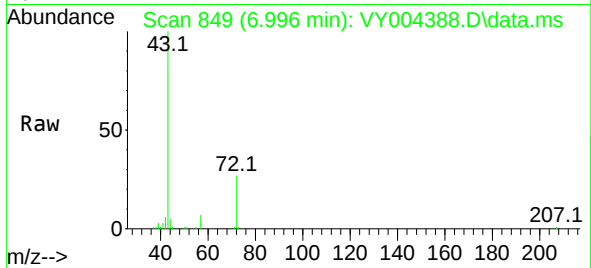




#25
2-Butanone
Concen: 34.15 ug/l
RT: 6.996 min Scan# 849
Delta R.T. -0.006 min
Lab File: VY004388.D
Acq: 12 Apr 2021 16:50

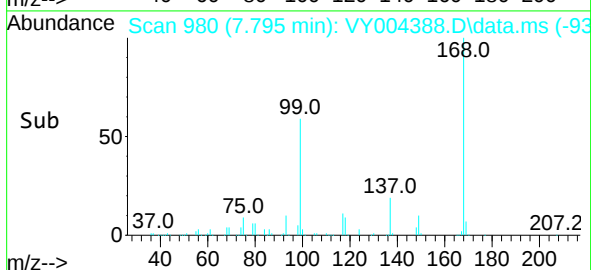
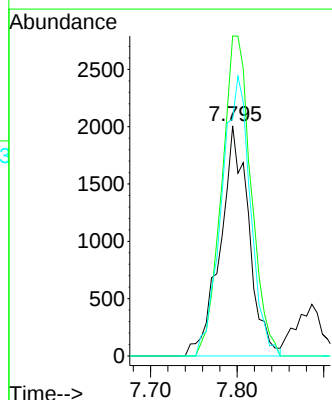
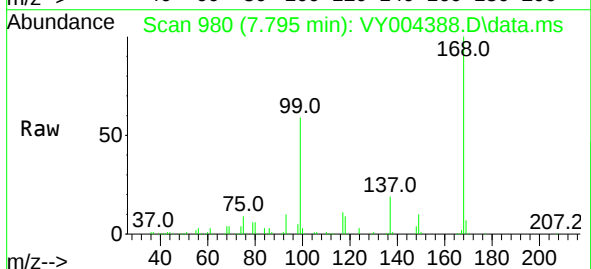
Instrument :
MSVOA_Y
ClientSampled :

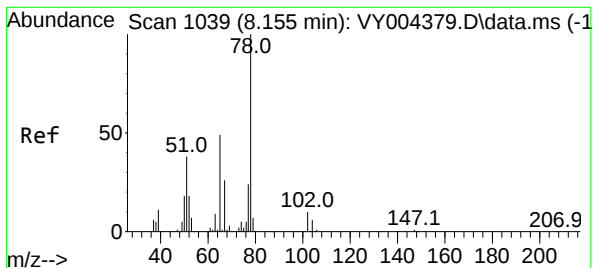
Tgt Ion: 43 Resp: 25875
Ion Ratio Lower Upper
43 100
72 26.8 20.2 30.2



#31
Cyclohexane
Concen: 1.26 ug/l
RT: 7.795 min Scan# 980
Delta R.T. 0.000 min
Lab File: VY004388.D
Acq: 12 Apr 2021 16:50

Tgt Ion: 56 Resp: 4598
Ion Ratio Lower Upper
56 100
69 139.1 25.8 38.6#
84 102.9 68.2 102.4#





#33

1,2-Dichloroethane-d4

Concen: 58.66 ug/l

RT: 8.155 min Scan# 1039

Delta R.T. 0.000 min

Lab File: VY004388.D

Acq: 12 Apr 2021 16:50

Tgt Ion: 65 Resp: 116673

Ion Ratio Lower Upper

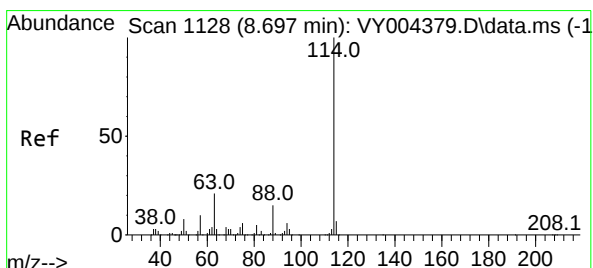
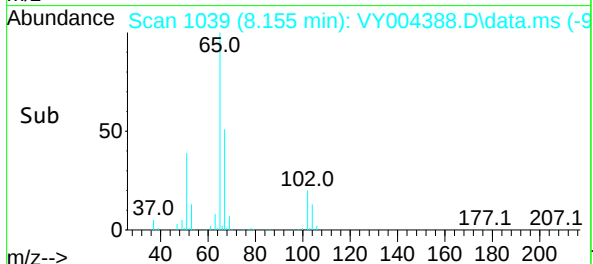
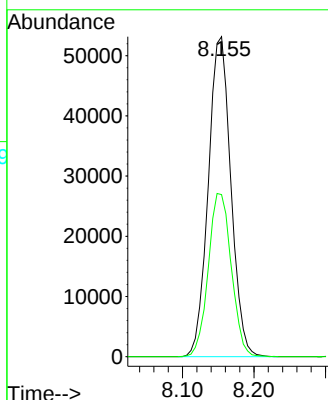
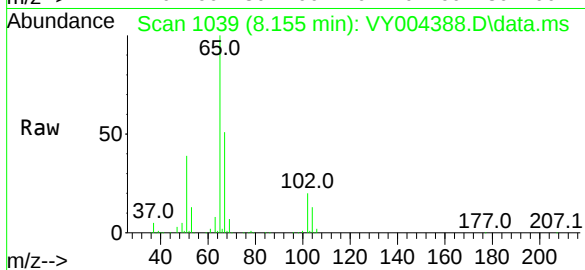
65 100

67 52.0 0.0 106.4

Instrument :

MSVOA_Y

ClientSampled :



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.697 min Scan# 1128

Delta R.T. 0.000 min

Lab File: VY004388.D

Acq: 12 Apr 2021 16:50

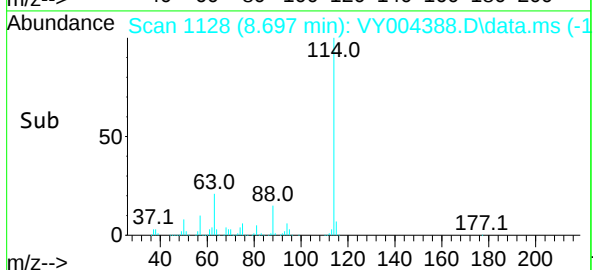
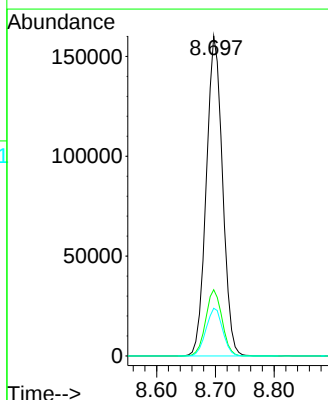
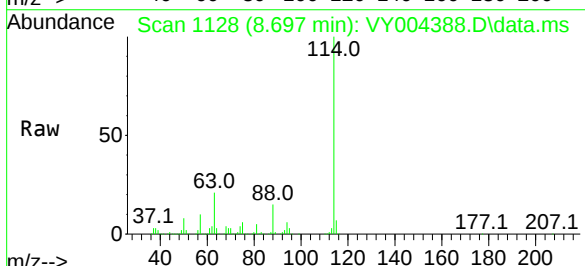
Tgt Ion:114 Resp: 307334

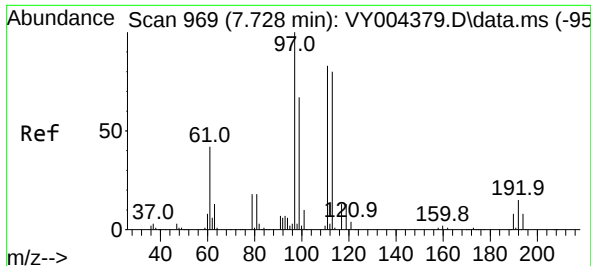
Ion Ratio Lower Upper

114 100

63 20.7 0.0 42.4

88 14.9 0.0 30.8





#35

Dibromofluoromethane

Concen: 54.09 ug/l

RT: 7.728 min Scan# 969

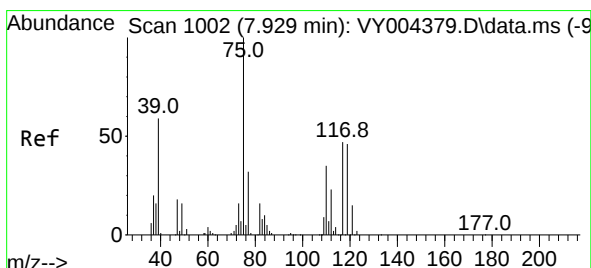
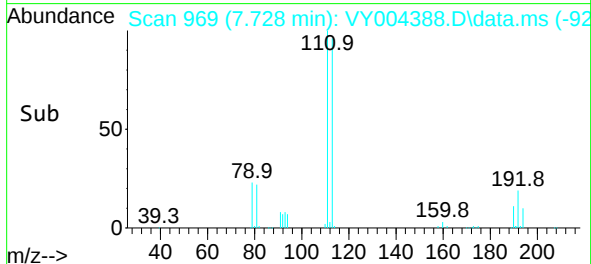
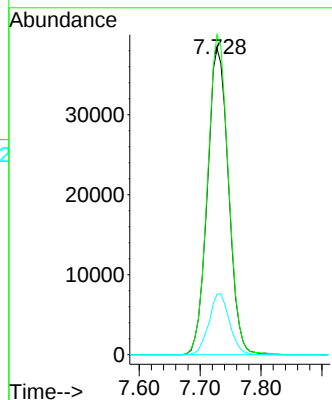
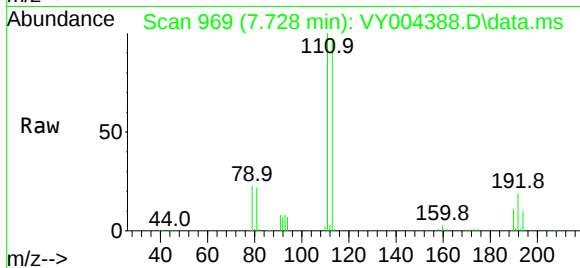
Delta R.T. 0.000 min

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Tgt Ion:	113	Resp:	92250
Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.6	123.8
192	19.4	16.1	24.1

Instrument :
MSVOA_Y
ClientSampleId :



#36

1,1-Dichloropropene

Concen: 4.77 ug/l

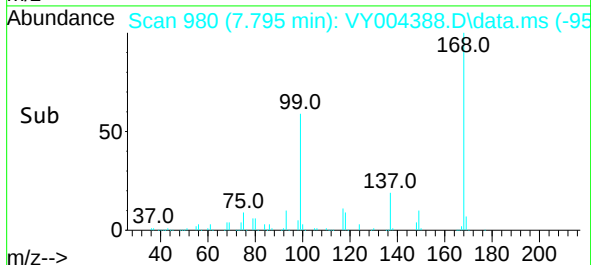
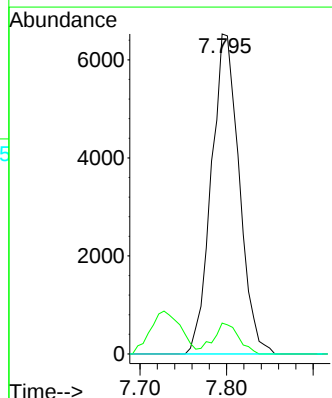
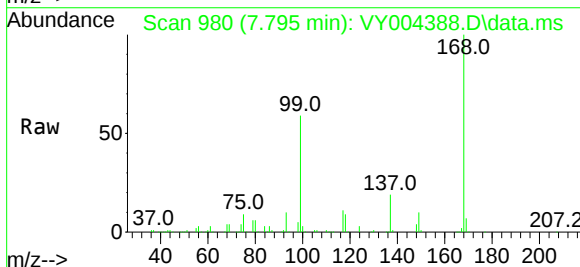
RT: 7.795 min Scan# 980

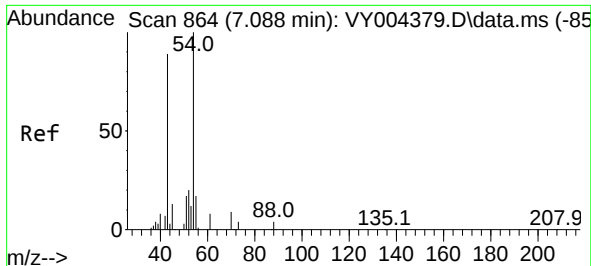
Delta R.T. -0.134 min

Lab File: VY004388.D

Acq: 12 Apr 2021 16:50

Tgt Ion:	75	Resp:	14580
Ion	Ratio	Lower	Upper
75	100		
110	8.8	17.3	51.7#
77	0.0	24.3	36.5#





#37

Ethyl Acetate

Concen: 13.16 ug/l

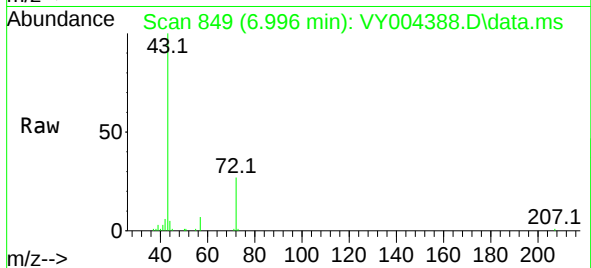
RT: 6.996 min Scan# 849

Delta R.T. -0.091 min

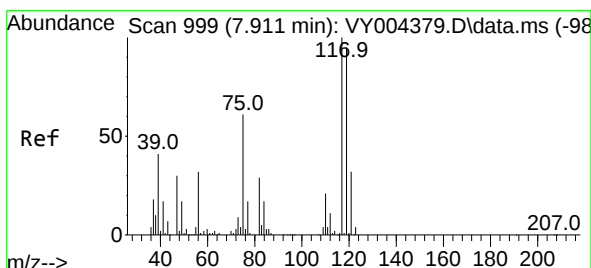
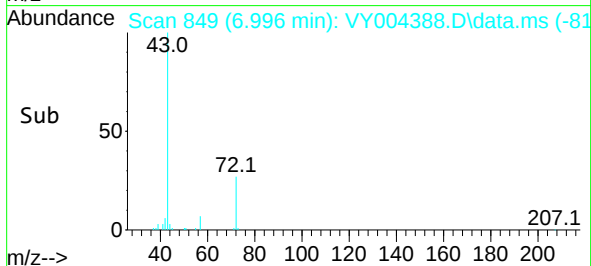
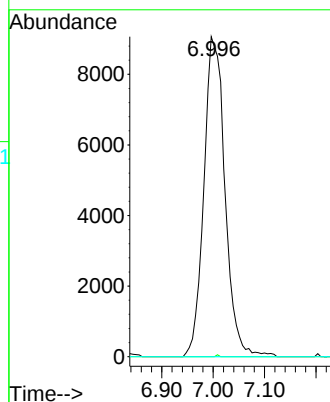
Lab File: VY004388.D

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Instrument :
MSVOA_Y
ClientSampled :



Tgt Ion:	43	Resp:	25875
Ion	Ratio	Lower	Upper
43	100		
61	0.1	10.4	15.6#
70	0.0	7.5	11.3#



#38

Carbon Tetrachloride

Concen: 6.64 ug/l

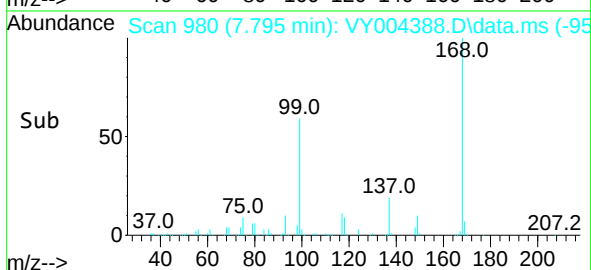
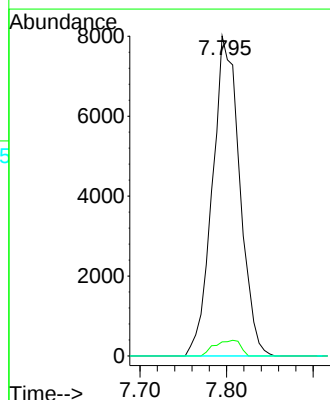
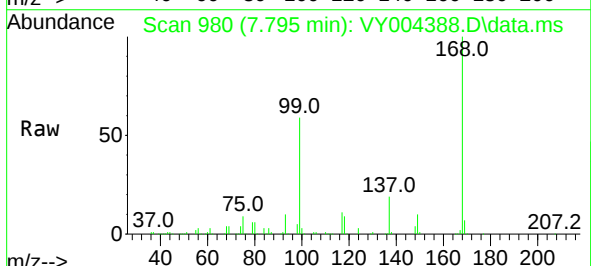
RT: 7.795 min Scan# 980

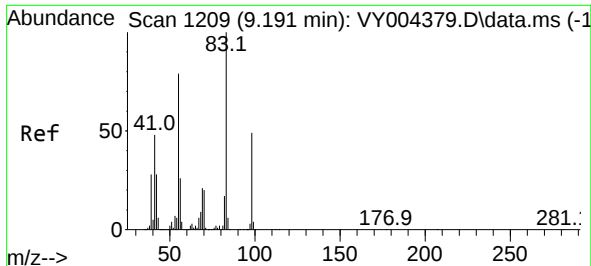
Delta R.T. -0.116 min

Lab File: VY004388.D

Acq: 12 Apr 2021 16:50

Tgt Ion:	117	Resp:	17518
Ion	Ratio	Lower	Upper
117	100		
119	4.4	75.8	113.8#
121	0.0	25.3	37.9#

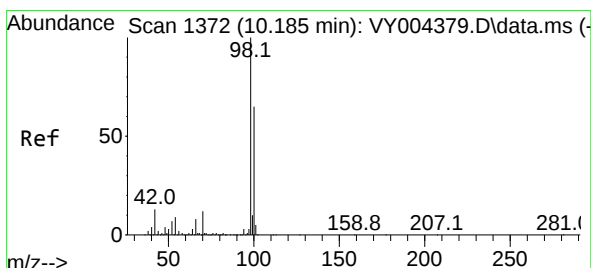
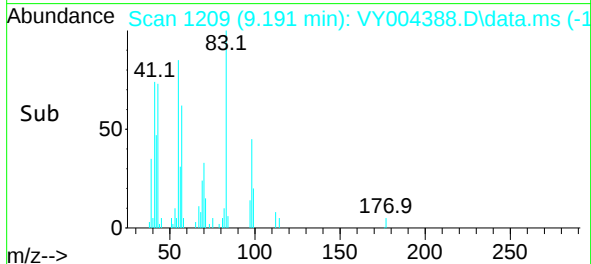
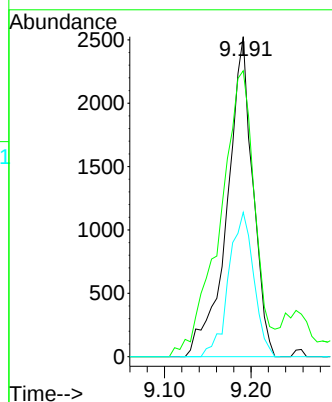
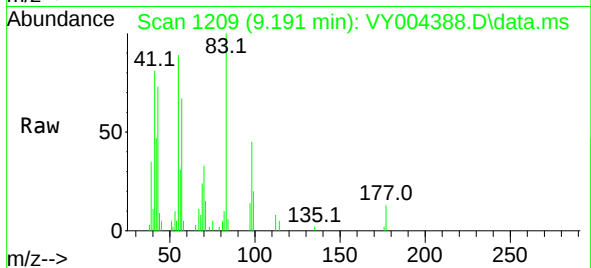




#39
Methylcyclohexane
Concen: 1.39 ug/l
RT: 9.191 min Scan# 1209
Delta R.T. 0.000 min
Lab File: VY004388.D
Acq: 12 Apr 2021 16:50

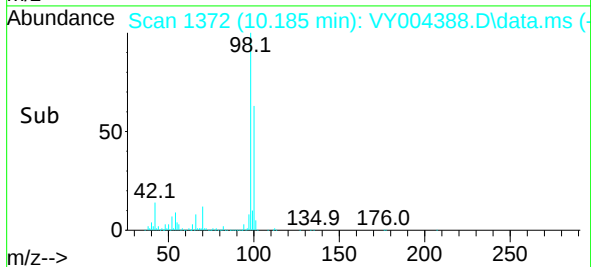
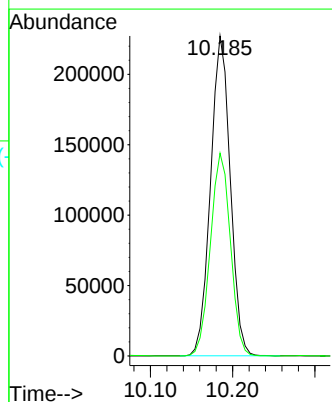
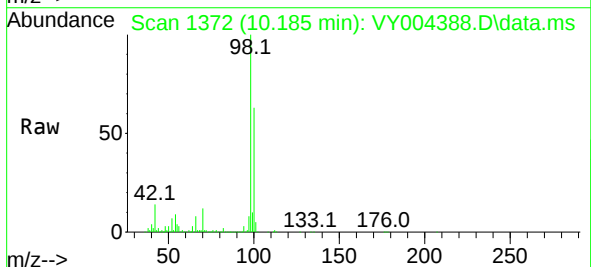
Instrument :
MSVOA_Y
ClientSampled :

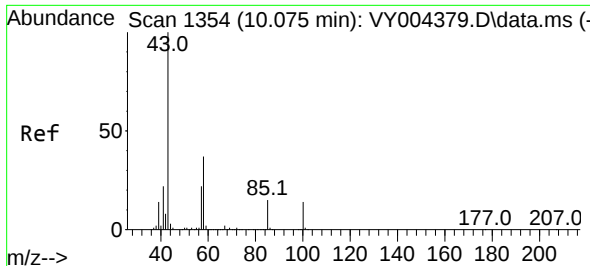
Tgt Ion: 83	Resp: 5209
Ion Ratio	Lower Upper
83 100	
55 87.1	63.0 94.4
98 45.1	39.2 58.8



#50
Toluene-d8
Concen: 52.14 ug/l
RT: 10.185 min Scan# 1372
Delta R.T. 0.000 min
Lab File: VY004388.D
Acq: 12 Apr 2021 16:50

Tgt Ion: 98	Resp: 378238
Ion Ratio	Lower Upper
98 100	
100 64.5	51.8 77.6

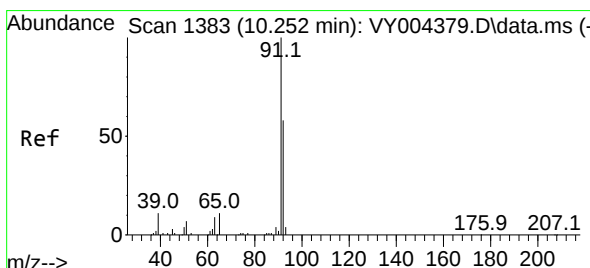
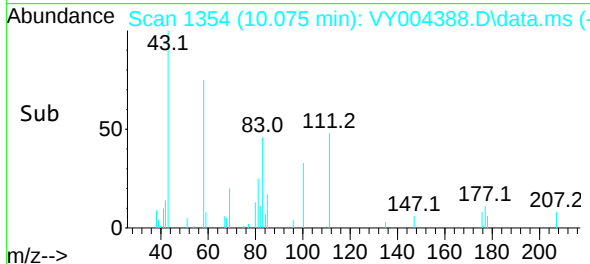
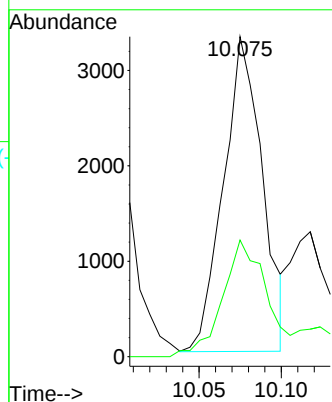
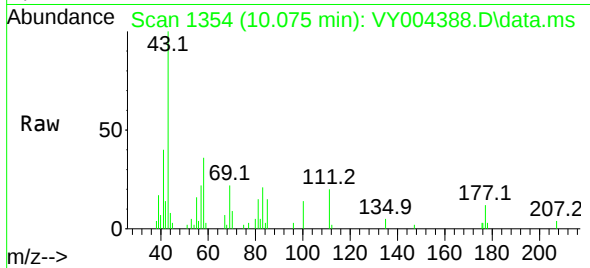




#51
4-Methyl-2-Pentanone
Concen: 2.84 ug/l
RT: 10.075 min Scan# 1354
Delta R.T. 0.000 min
Lab File: VY004388.D
Acq: 12 Apr 2021 16:50

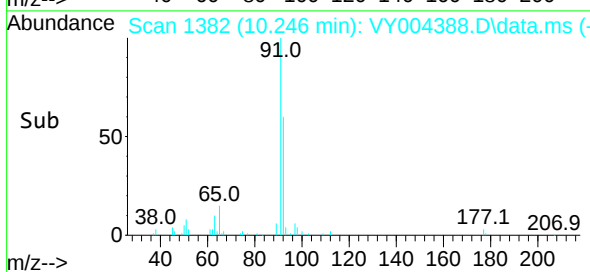
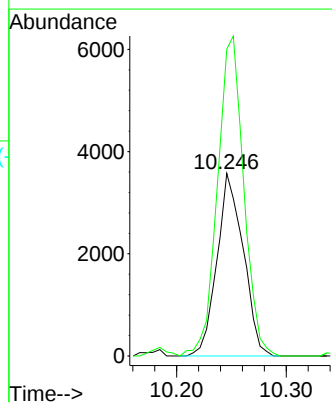
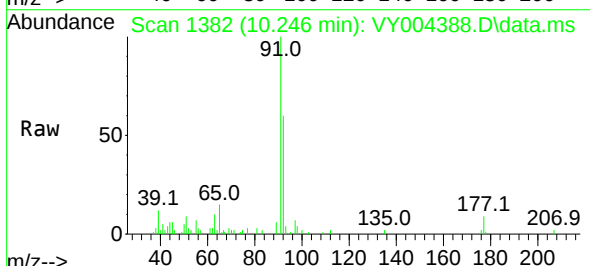
Instrument :
MSVOA_Y
ClientSampled :

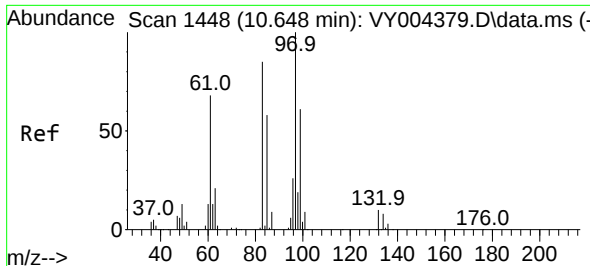
Tgt Ion: 43 Resp: 5445
Ion Ratio Lower Upper
43 100
58 41.5 29.2 43.8



#52
Toluene
Concen: 1.07 ug/l
RT: 10.246 min Scan# 1382
Delta R.T. -0.006 min
Lab File: VY004388.D
Acq: 12 Apr 2021 16:50

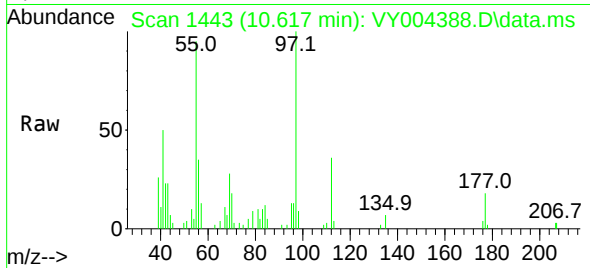
Tgt Ion: 92 Resp: 5946
Ion Ratio Lower Upper
92 100
91 175.1 137.8 206.6



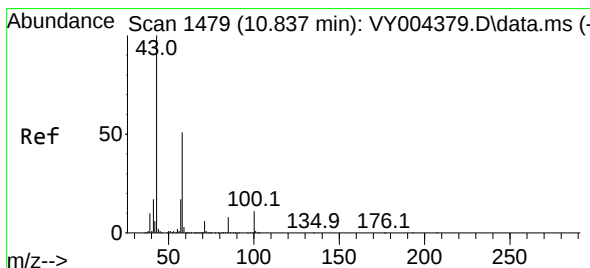
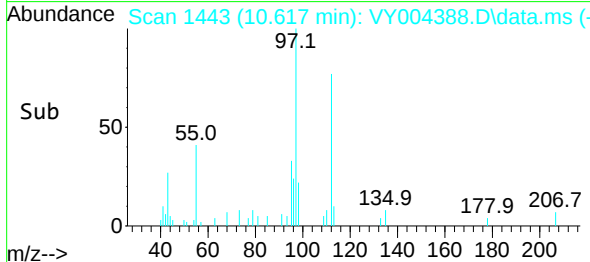
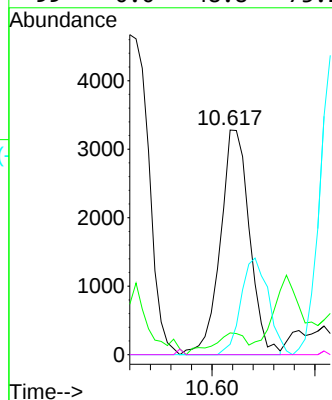


#55
1,1,2-Trichloroethane
Concen: 3.89 ug/l
RT: 10.617 min Scan# 1443
Delta R.T. -0.030 min
Lab File: VY004388.D
Acq: 12 Apr 2021 16:50

Instrument :
MSVOA_Y
ClientSampleId :

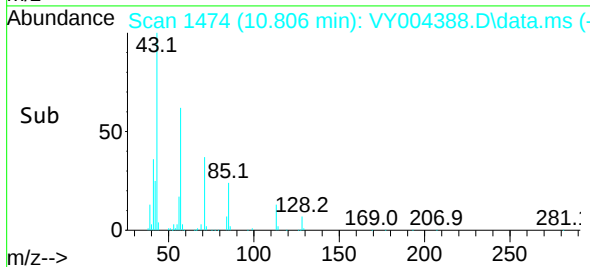
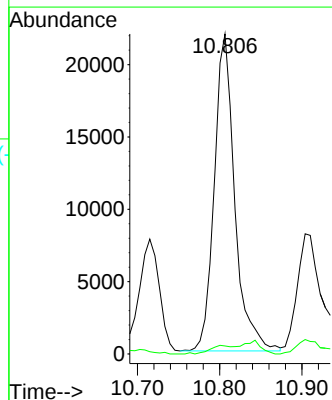
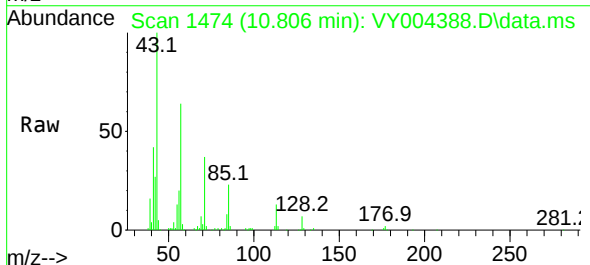


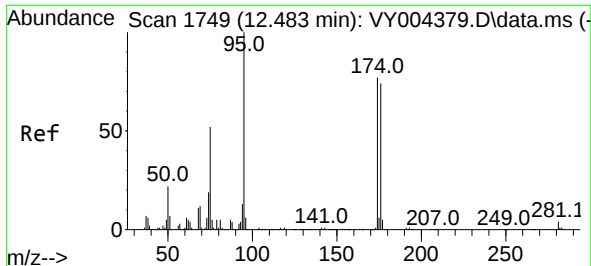
Tgt Ion: 97 Resp: 6466
Ion Ratio Lower Upper
97 100
83 7.1 68.4 102.6#
85 4.7 46.2 69.4#
99 0.0 48.8 73.2#



#59
2-Hexanone
Concen: 29.57 ug/l
RT: 10.806 min Scan# 1474
Delta R.T. -0.030 min
Lab File: VY004388.D
Acq: 12 Apr 2021 16:50

Tgt Ion: 43 Resp: 37960
Ion Ratio Lower Upper
43 100
58 2.7 25.4 76.4#

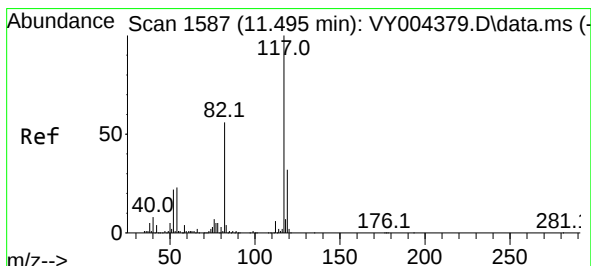
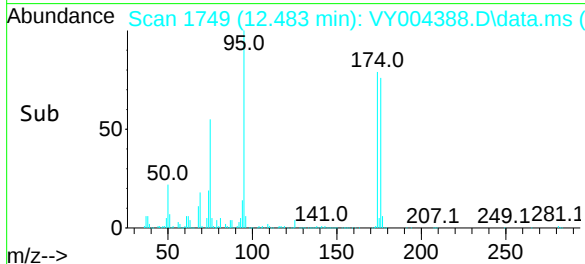
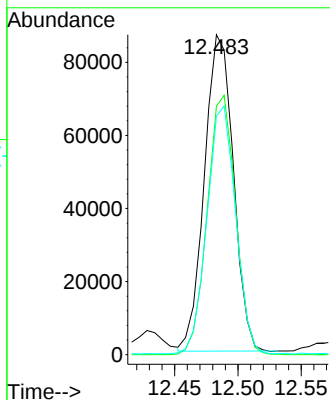
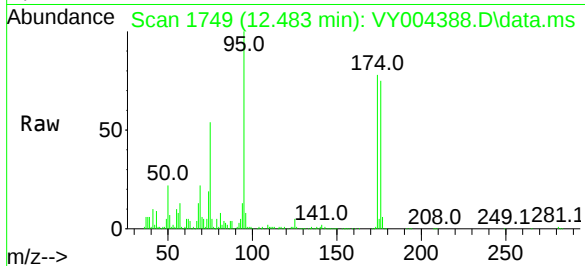




#62
4-Bromofluorobenzene
Concen: 55.91 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VY004388.D
Acq: 12 Apr 2021 16:50

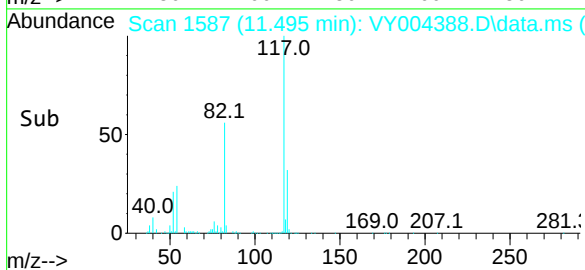
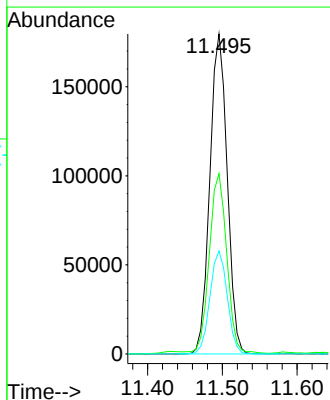
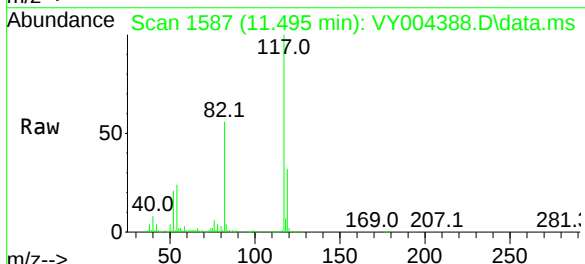
Instrument :
MSVOA_Y
ClientSampled :

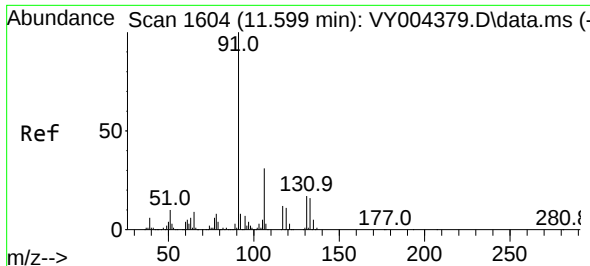
Tgt Ion: 95 Resp: 137644
Ion Ratio Lower Upper
95 100
174 80.8 0.0 162.4
176 77.6 0.0 156.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.495 min Scan# 1587
Delta R.T. 0.000 min
Lab File: VY004388.D
Acq: 12 Apr 2021 16:50

Tgt Ion: 117 Resp: 289571
Ion Ratio Lower Upper
117 100
82 55.9 44.9 67.3
119 32.1 25.4 38.0

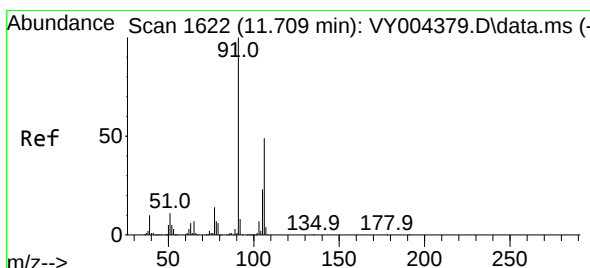
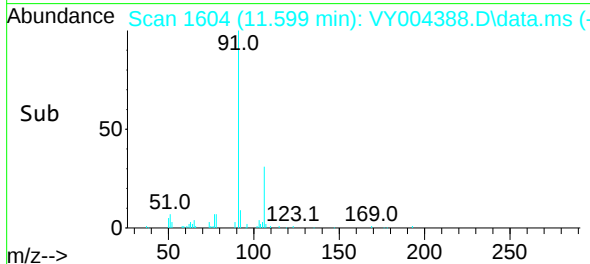
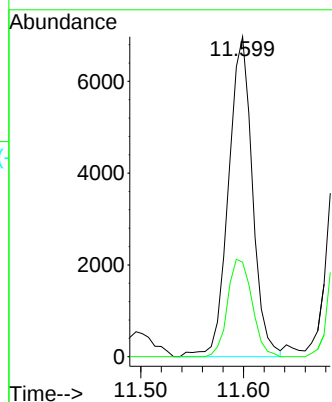
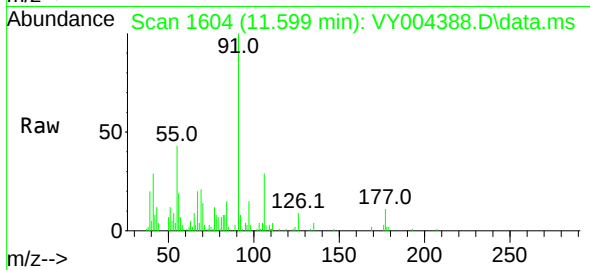




#67
Ethyl Benzene
Concen: 1.02 ug/l
RT: 11.599 min Scan# 1604
Delta R.T. 0.000 min
Lab File: VY004388.D
Acq: 12 Apr 2021 16:50

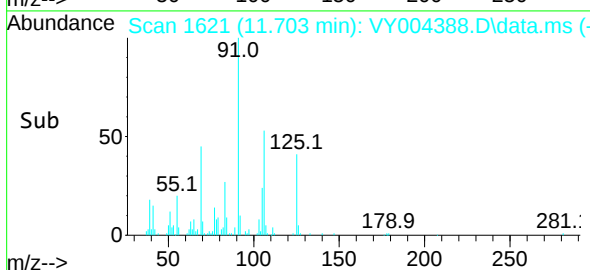
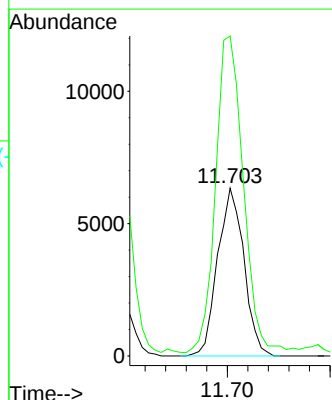
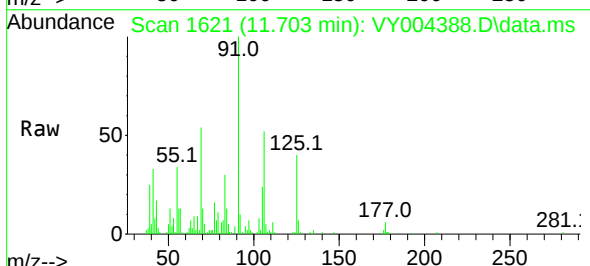
Instrument :
MSVOA_Y
ClientSampleId :

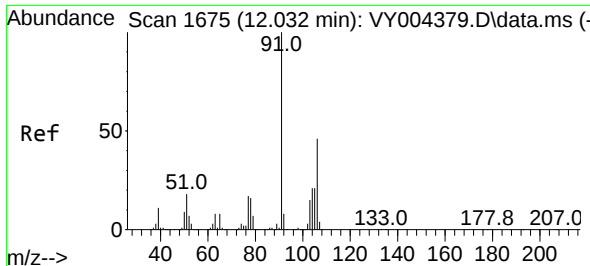
Tgt Ion: 91 Resp: 11300
Ion Ratio Lower Upper
91 100
106 29.5 25.1 37.7



#68
m/p-Xylenes
Concen: 2.74 ug/l
RT: 11.703 min Scan# 1621
Delta R.T. -0.006 min
Lab File: VY004388.D
Acq: 12 Apr 2021 16:50

Tgt Ion:106 Resp: 11259
Ion Ratio Lower Upper
106 100
91 202.9 163.2 244.8

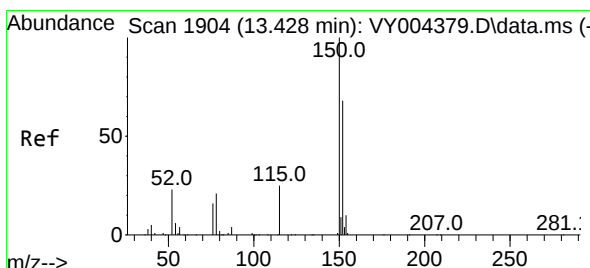
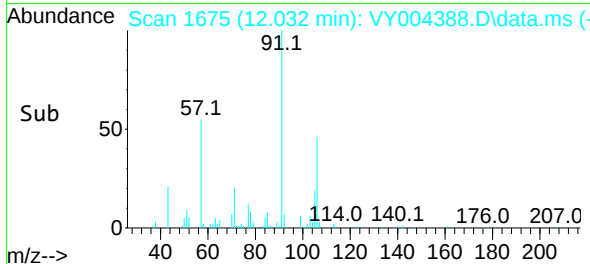
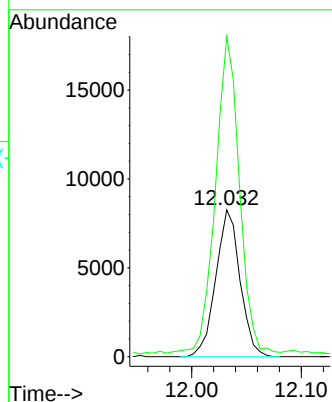
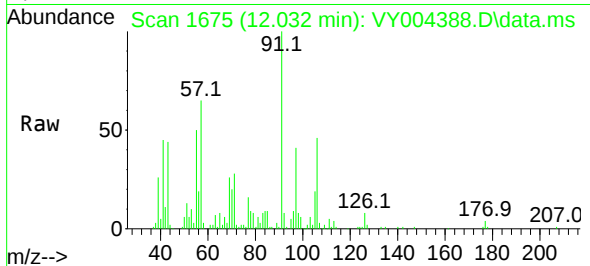




#69
o-Xylene
Concen: 3.30 ug/l
RT: 12.032 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VY004388.D
Acq: 12 Apr 2021 16:50

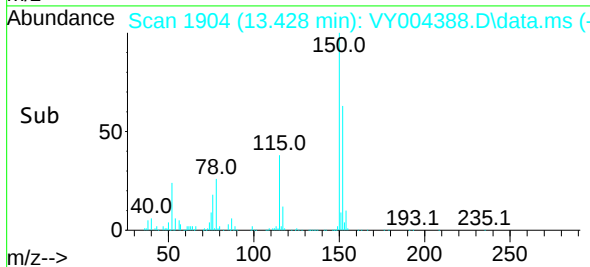
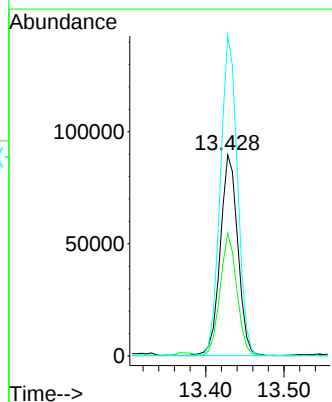
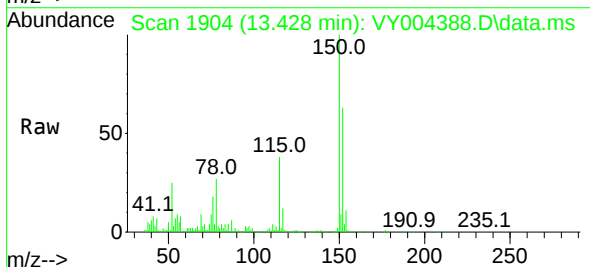
Instrument :
MSVOA_Y
ClientSampleId :

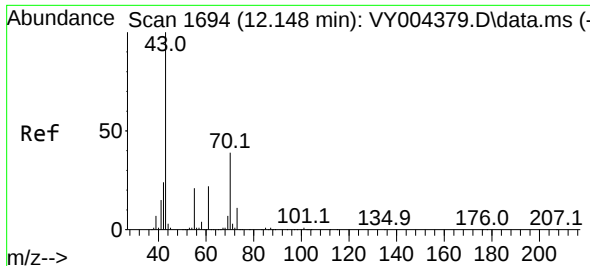
Tgt Ion:106 Resp: 12711
Ion Ratio Lower Upper
106 100
91 215.1 107.4 322.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VY004388.D
Acq: 12 Apr 2021 16:50

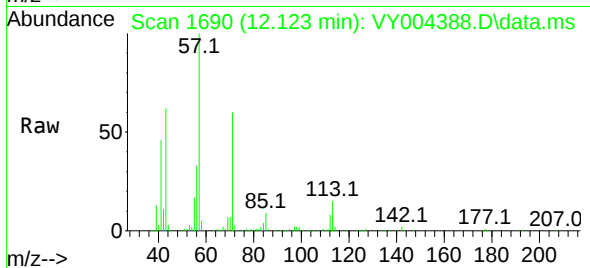
Tgt Ion:152 Resp: 139731
Ion Ratio Lower Upper
152 100
115 57.9 29.6 88.8
150 155.9 0.0 348.4



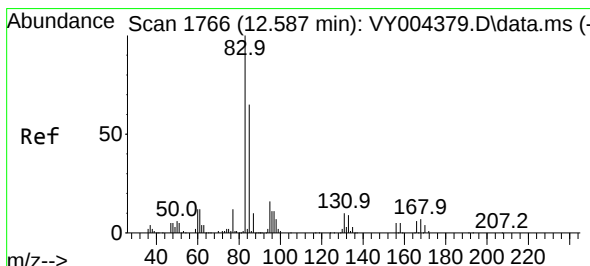
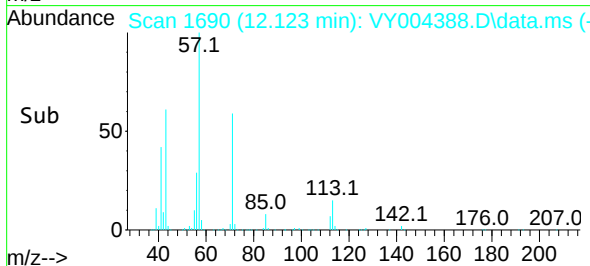
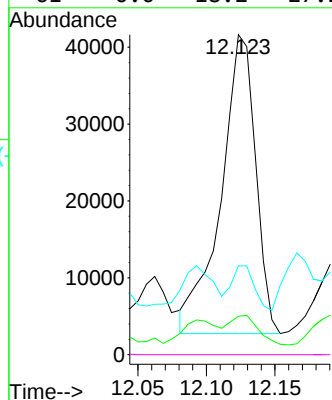


#74
N-amy1 acetate
Concen: 18.83 ug/l
RT: 12.123 min Scan# 1690
Delta R.T. -0.024 min
Lab File: VY004388.D
Acq: 12 Apr 2021 16:50

Instrument :
MSVOA_Y
ClientSampleId :

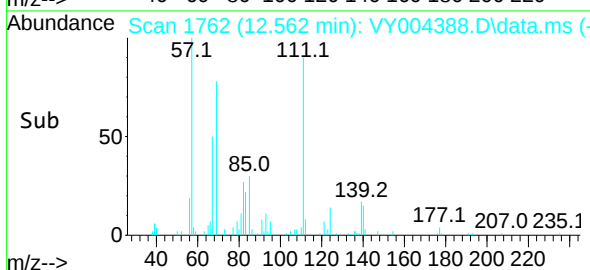
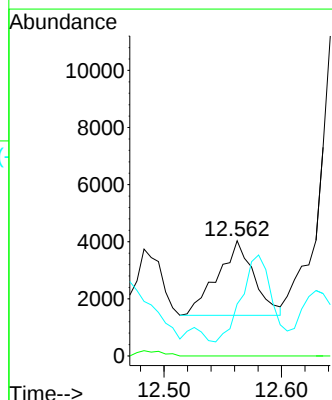
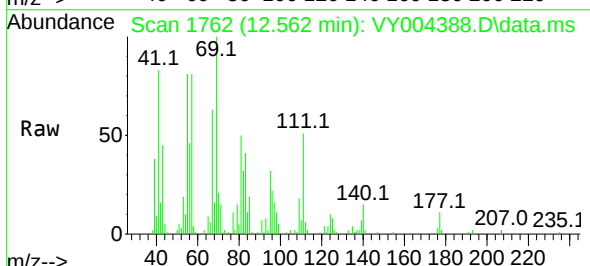


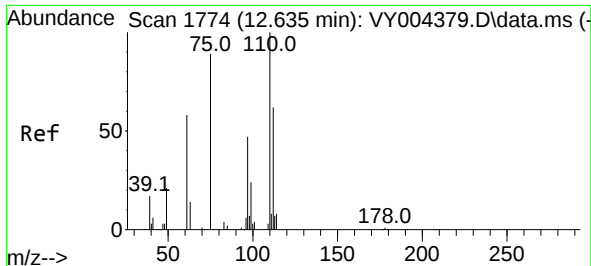
Tgt Ion: 43 Resp: 68438
Ion Ratio Lower Upper
43 100
70 8.0 30.4 45.6#
55 13.6 17.4 26.0#
61 0.0 18.2 27.2#



#75
1,1,2,2-Tetrachloroethane
Concen: 2.77 ug/l
RT: 12.562 min Scan# 1762
Delta R.T. -0.024 min
Lab File: VY004388.D
Acq: 12 Apr 2021 16:50

Tgt Ion: 83 Resp: 5651
Ion Ratio Lower Upper
83 100
131 0.0 5.1 15.4#
85 93.5 31.6 94.8

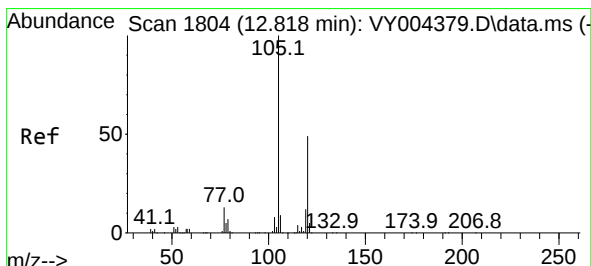
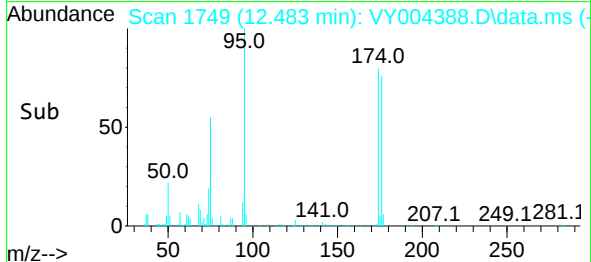
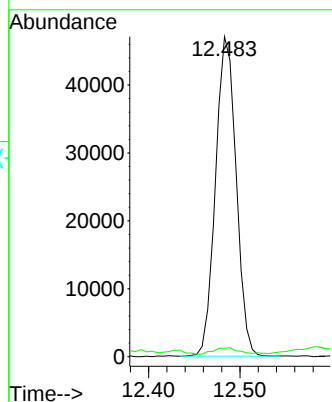
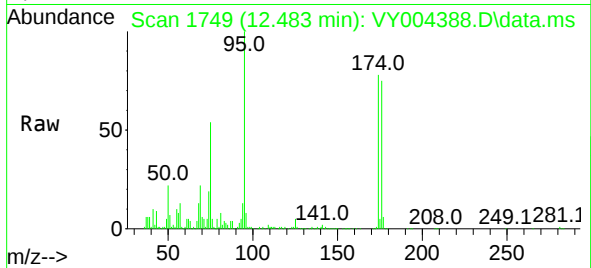




#76
1,2,3-Trichloropropane
Concen: 49.29 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.152 min
Lab File: VY004388.D
Acq: 12 Apr 2021 16:50

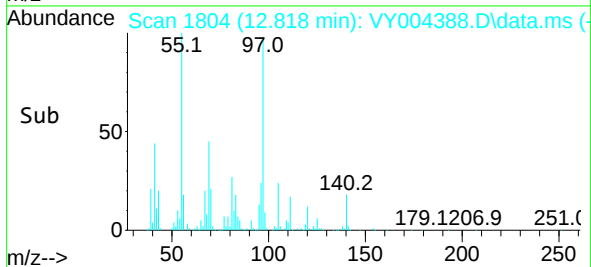
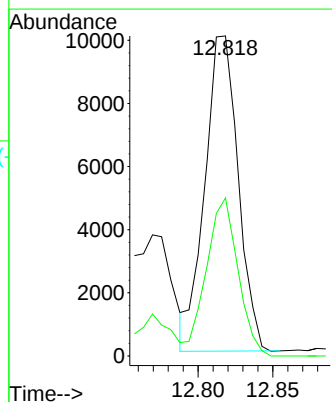
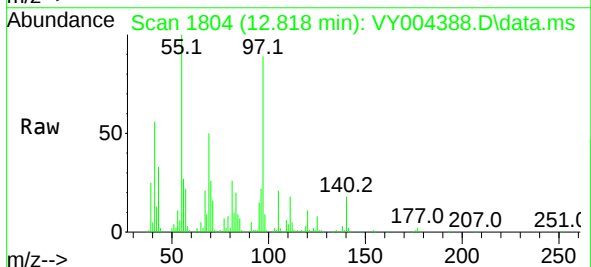
Instrument :
MSVOA_Y
ClientSampleId :

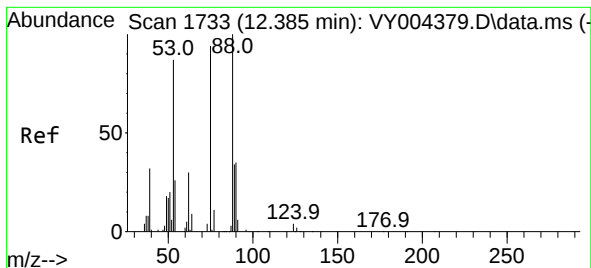
Tgt Ion: 75 Resp: 73924
Ion Ratio Lower Upper
75 100
77 2.8 0.0 0.0#



#80
1,3,5-Trimethylbenzene
Concen: 1.76 ug/l
RT: 12.818 min Scan# 1804
Delta R.T. 0.000 min
Lab File: VY004388.D
Acq: 12 Apr 2021 16:50

Tgt Ion: 105 Resp: 15479
Ion Ratio Lower Upper
105 100
120 47.7 24.6 74.0

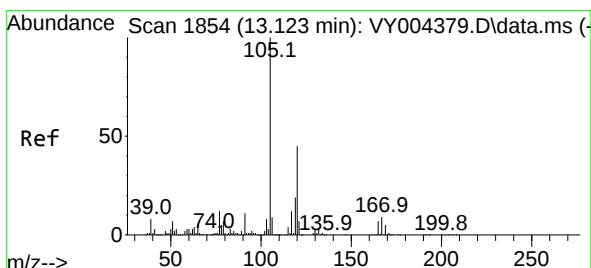
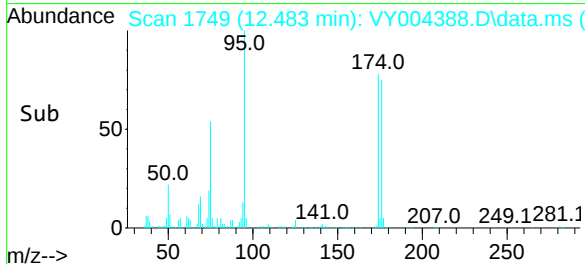
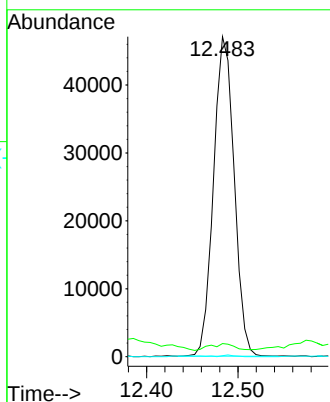
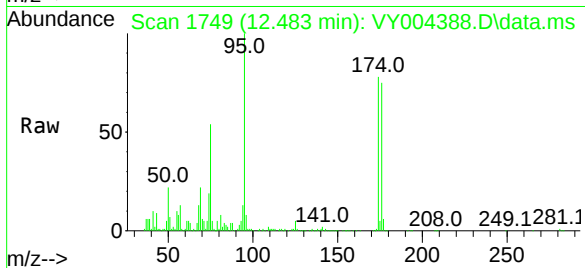




#81
trans-1,4-Dichloro-2-butene
Concen: 88.18 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.098 min
Lab File: VY004388.D
Acq: 12 Apr 2021 16:50

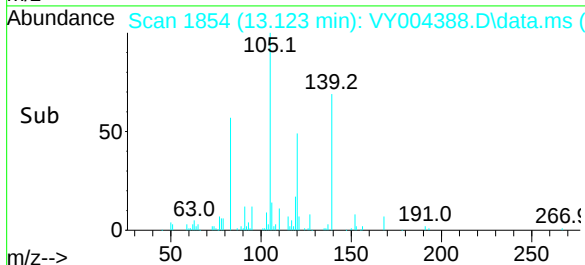
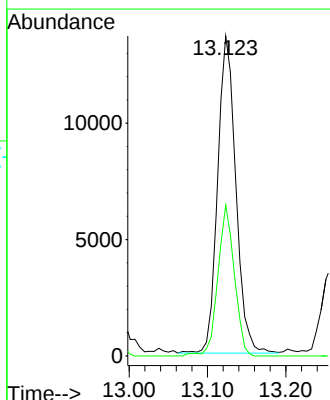
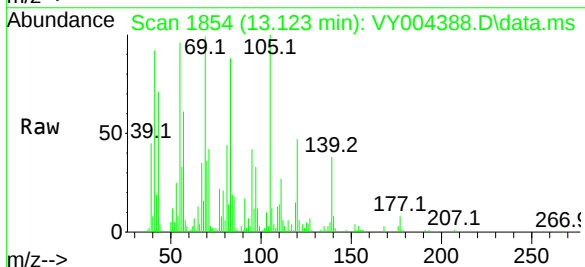
Instrument :
MSVOA_Y
ClientSampled :

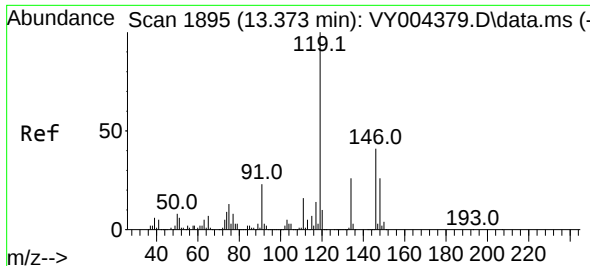
Tgt Ion: 75 Resp: 73924
Ion Ratio Lower Upper
75 100
53 2.6 75.0 112.6#
89 0.3 36.1 54.1#



#84
1,2,4-Trimethylbenzene
Concen: 2.49 ug/l
RT: 13.123 min Scan# 1854
Delta R.T. 0.000 min
Lab File: VY004388.D
Acq: 12 Apr 2021 16:50

Tgt Ion: 105 Resp: 22037
Ion Ratio Lower Upper
105 100
120 43.1 22.4 67.3

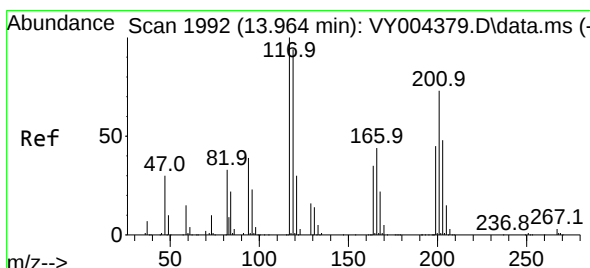
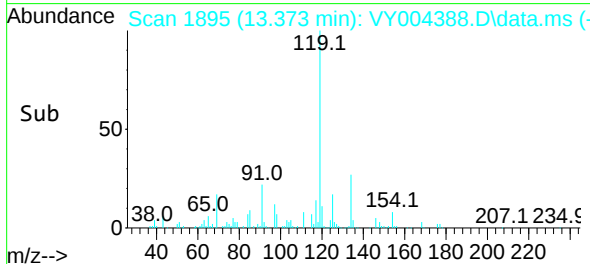
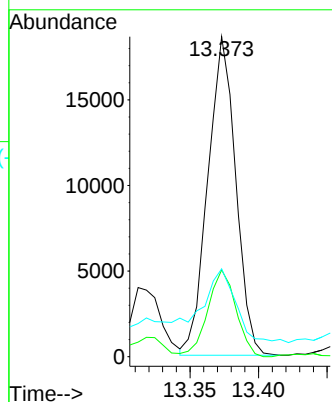
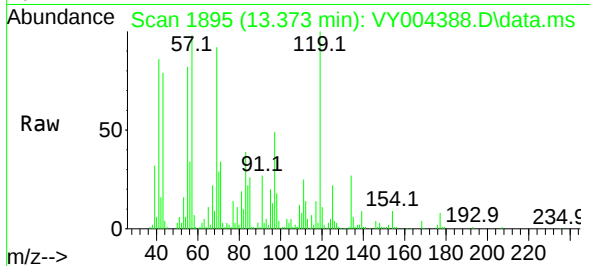




#86
p-Isopropyltoluene
Concen: 2.77 ug/l
RT: 13.373 min Scan# 1895
Delta R.T. 0.000 min
Lab File: VY004388.D
Acq: 12 Apr 2021 16:50

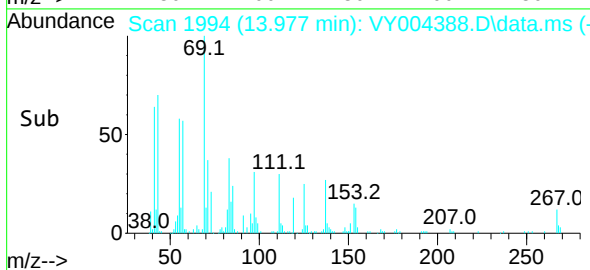
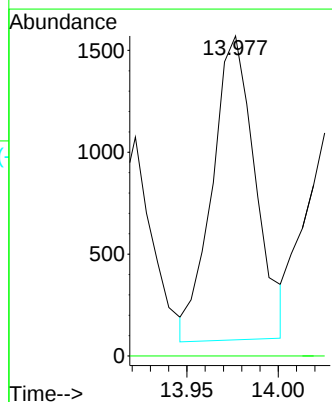
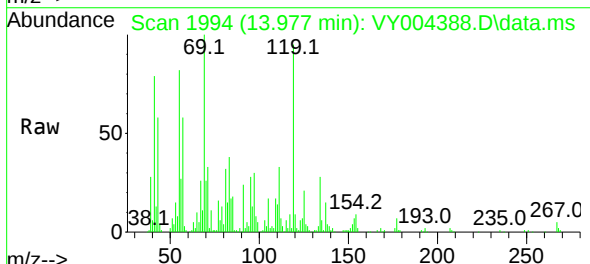
Instrument :
MSVOA_Y
ClientSampled :

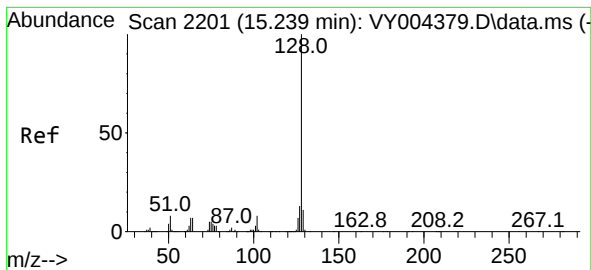
Tgt Ion:119 Resp: 26378
Ion Ratio Lower Upper
119 100
134 27.4 13.3 39.8
91 25.4 11.9 35.7



#90
Hexachloroethane
Concen: 1.92 ug/l
RT: 13.977 min Scan# 1994
Delta R.T. 0.012 min
Lab File: VY004388.D
Acq: 12 Apr 2021 16:50

Tgt Ion:117 Resp: 2453
Ion Ratio Lower Upper
117 100
201 0.0 36.6 109.9#





#95
Naphthalene
Concen: 4.30 ug/l
RT: 15.239 min Scan# 2201
Delta R.T. 0.000 min
Lab File: VY004388.D
Acq: 12 Apr 2021 16:50

Instrument :
MSVOA_Y
ClientSampleId :

Tgt Ion:128 Resp: 24801
Ion Ratio Lower Upper
128 100
127 15.7 10.2 15.2#
129 13.7 8.8 13.2#

