

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX123020\
 Data File : VX020456.D
 Acq On : 30 Dec 2020 15:22
 Operator : JC/MD
 Sample : L5222-11 50X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 31 01:07:33 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 18 13:09:49 2020
 Response via : Initial Calibration

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

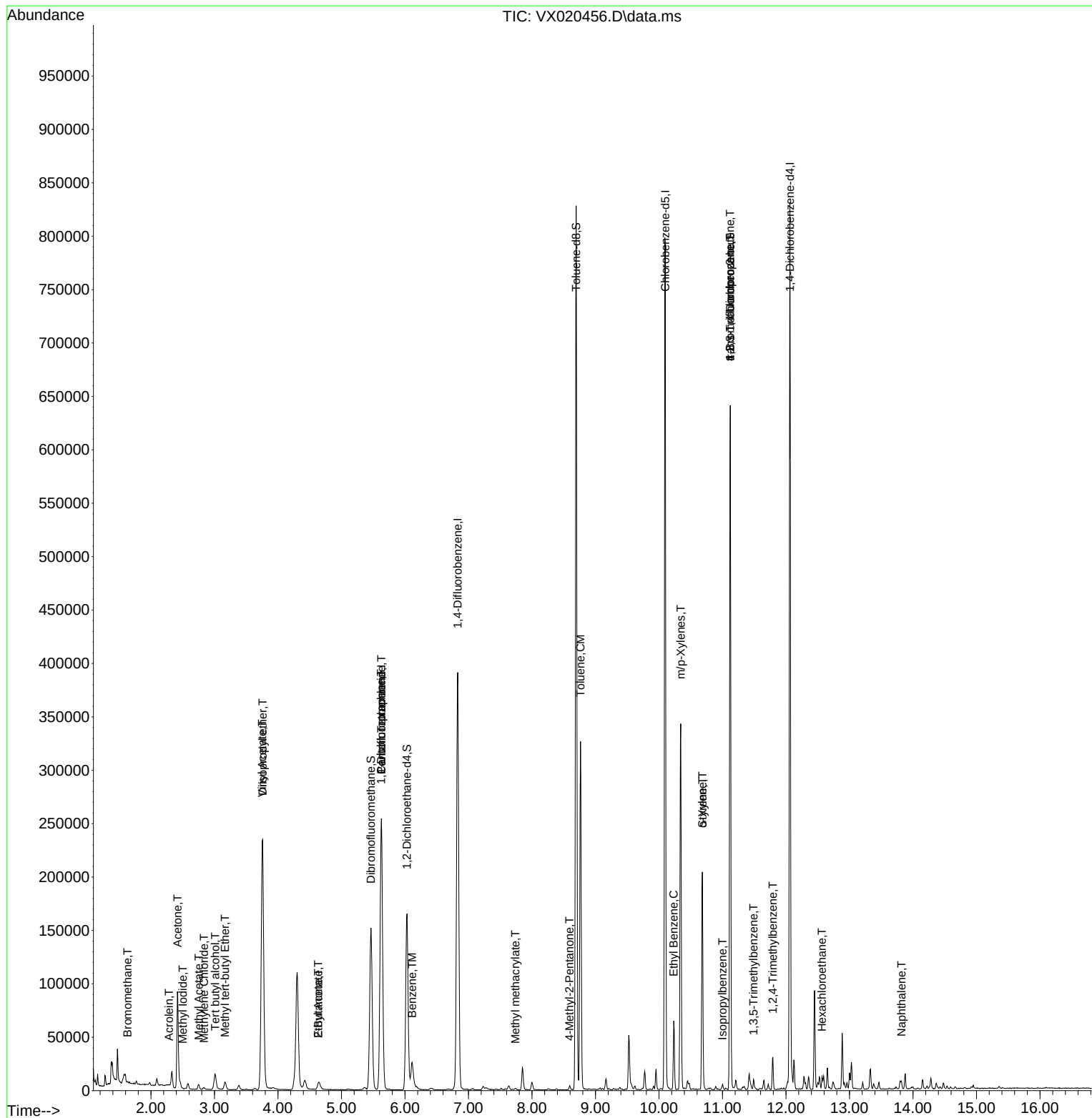
Internal Standards						
1) Pentafluorobenzene	5.629	168	240866	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.830	114	396288	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.098	117	375700	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.061	152	165637	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.032	65	156353	48.43	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	96.86%		
35) Dibromofluoromethane	5.465	113	132135	52.12	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	104.24%		
50) Toluene-d8	8.696	98	483841	49.58	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	99.16%		
62) 4-Bromofluorobenzene	11.122	95	175603	47.02	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	94.04%		
Target Compounds						Qvalue
5) Bromomethane	1.630	94	553	0.52	ug/l	83
10) Methyl Iodide	2.502	142	260	3.36	ug/l #	69
11) Tert butyl alcohol	3.014	59	9162	12.67	ug/l	98
13) Acrolein	2.282	56	102	0.23	ug/l #	14
16) Acetone	2.416	43	94037	63.87	ug/l	98
18) Methyl Acetate	2.752	43	5158	1.57	ug/l	96
19) Methyl tert-butyl Ether	3.166	73	7223	0.78	ug/l	94
20) Methylene Chloride	2.837	84	780	0.24	ug/l #	81
22) Diisopropyl ether	3.758	45	7398	0.83	ug/l #	1
23) Vinyl Acetate	3.751	43	1668	0.22	ug/l #	68
25) 2-Butanone	4.635	43	10844	5.06	ug/l	97
36) 1,1-Dichloropropene	5.623	75	18464	4.71	ug/l #	49
37) Ethyl Acetate	4.635	43	10844	2.66	ug/l #	64
38) Carbon Tetrachloride	5.629	117	23574	6.33	ug/l #	16
40) Benzene	6.111	78	30006	2.46	ug/l	100
48) Methyl methacrylate	7.739	41	874	0.28	ug/l #	28
51) 4-Methyl-2-Pentanone	8.592	43	1564	0.39	ug/l #	32
52) Toluene	8.763	92	126658	17.02	ug/l	100
67) Ethyl Benzene	10.232	91	36001	2.55	ug/l	98
68) m/p-Xylenes	10.342	106	81904	15.57	ug/l	99
69) o-Xylene	10.683	106	45093	8.91	ug/l	100
70) Styrene	10.683	104	2573	0.30	ug/l #	1
73) Isopropylbenzene	11.000	105	2625	0.22	ug/l	90
76) 1,2,3-Trichloropropane	11.122	75	86393	21.17	ug/l #	39
80) 1,3,5-Trimethylbenzene	11.488	105	3731	0.37	ug/l	95
81) trans-1,4-Dichloro-2-b...	11.122	75	86393	62.82	ug/l #	12
84) 1,2,4-Trimethylbenzene	11.793	105	13348	1.30	ug/l	98
90) Hexachloroethane	12.567	117	570	0.32	ug/l #	9
95) Naphthalene	13.817	128	4243	0.37	ug/l #	96

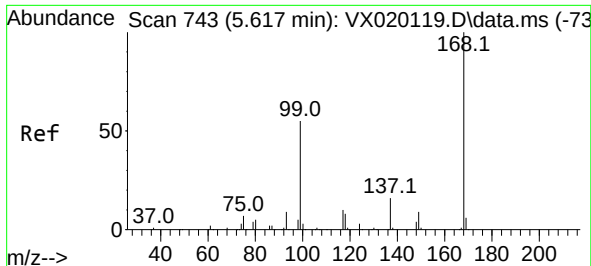
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121820W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 18 13:09:49 2020
Response via : Initial Calibration

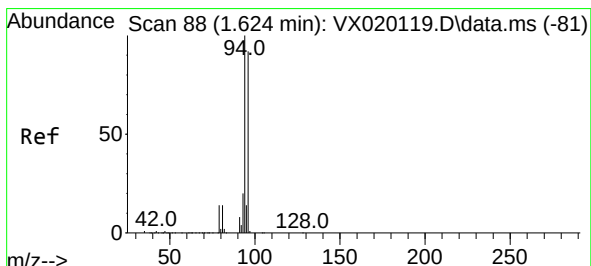
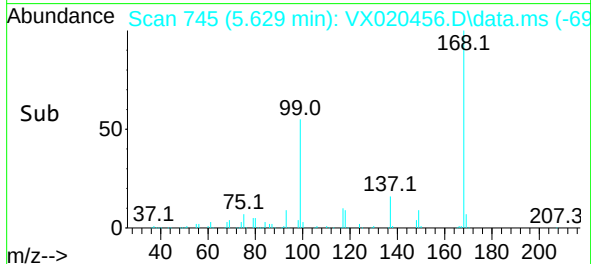
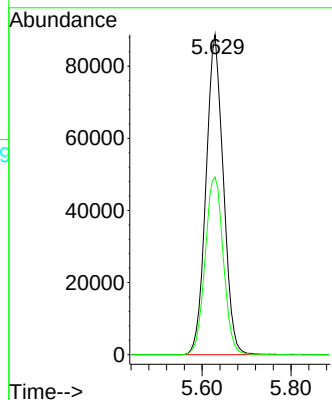
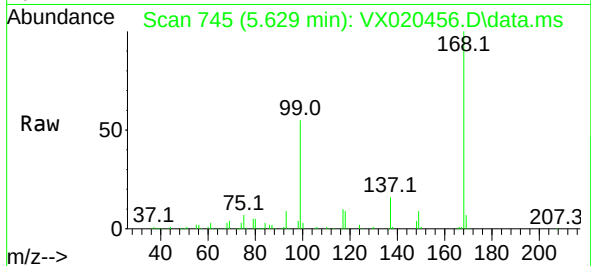




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 745
Delta R.T. 0.012 min
Lab File: VX020456.D
Acq: 30 Dec 2020 15:22

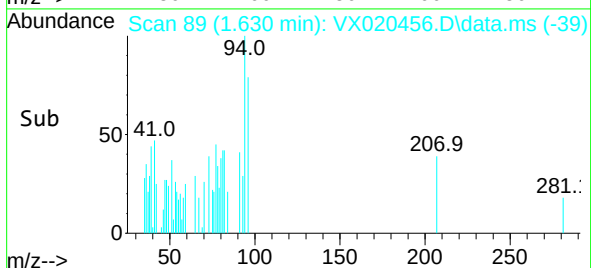
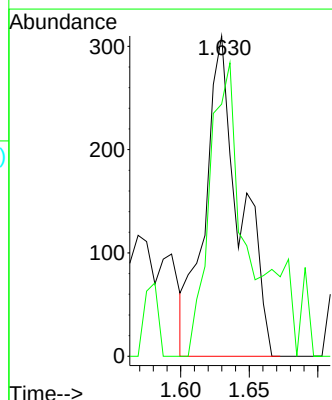
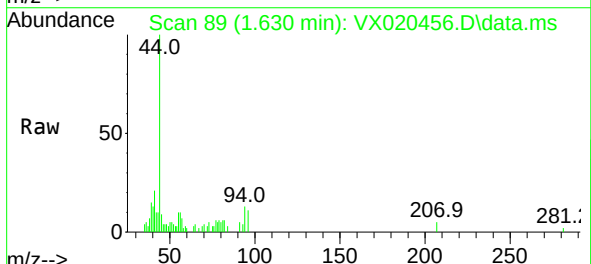
Instrument :
MSVOA_X
ClientSampled :

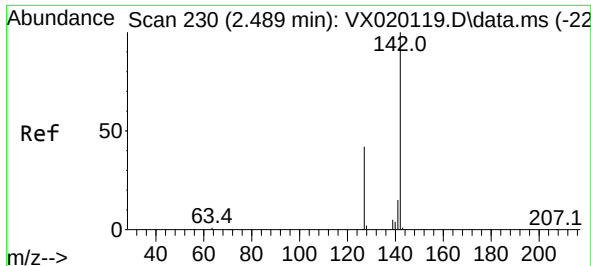
Tgt Ion:168 Resp: 240866
Ion Ratio Lower Upper
168 100
99 55.5 45.8 68.6



#5
Bromomethane
Concen: 0.52 ug/l
RT: 1.630 min Scan# 89
Delta R.T. 0.006 min
Lab File: VX020456.D
Acq: 30 Dec 2020 15:22

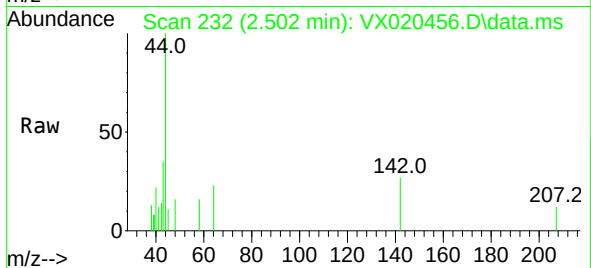
Tgt Ion: 94 Resp: 553
Ion Ratio Lower Upper
94 100
96 78.7 76.4 114.6



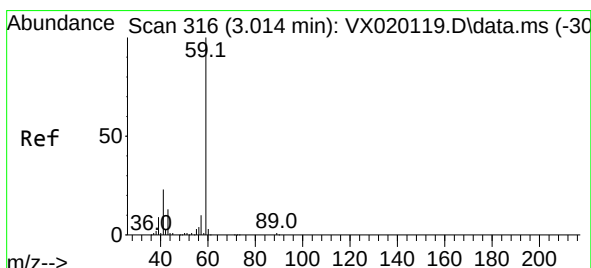
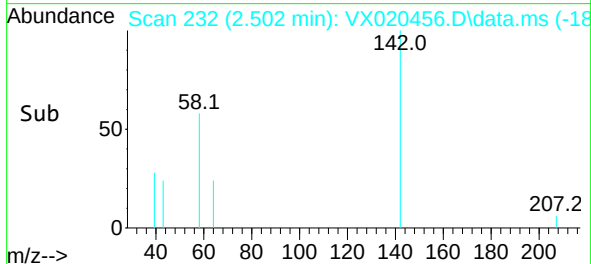
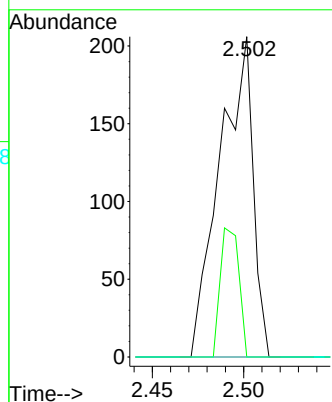


#10
Methyl Iodide
Concen: 3.36 ug/l
RT: 2.502 min Scan# 232
Delta R.T. 0.013 min
Lab File: VX020456.D
Acq: 30 Dec 2020 15:22

Instrument :
MSVOA_X
ClientSampled :

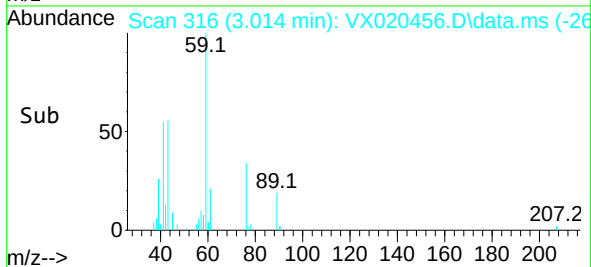
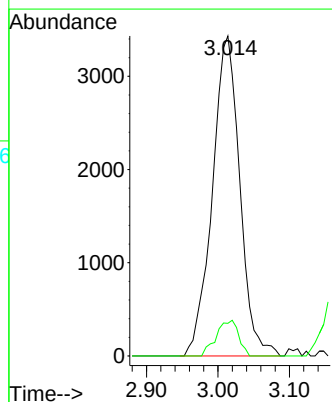
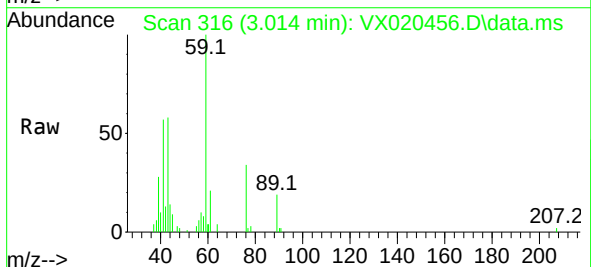


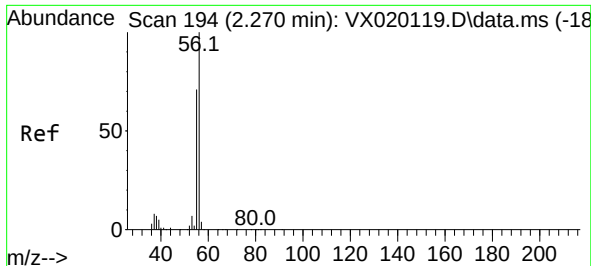
Tgt Ion:142 Resp: 260
Ion Ratio Lower Upper
142 100
127 22.7 33.3 49.9#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 12.67 ug/l
RT: 3.014 min Scan# 316
Delta R.T. -0.000 min
Lab File: VX020456.D
Acq: 30 Dec 2020 15:22

Tgt Ion: 59 Resp: 9162
Ion Ratio Lower Upper
59 100
57 9.0 7.8 11.8

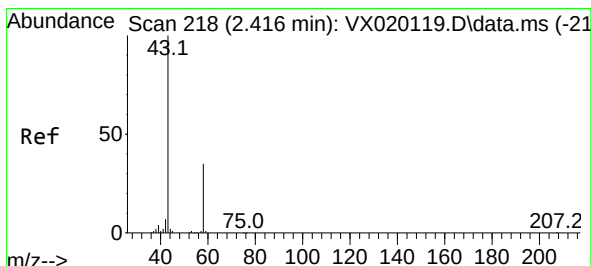
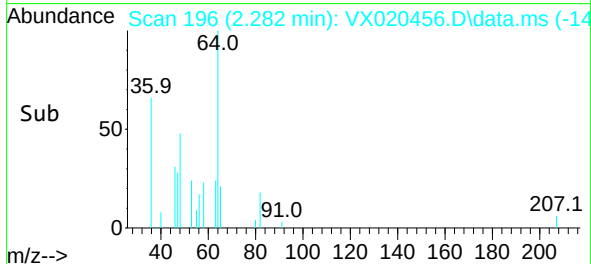
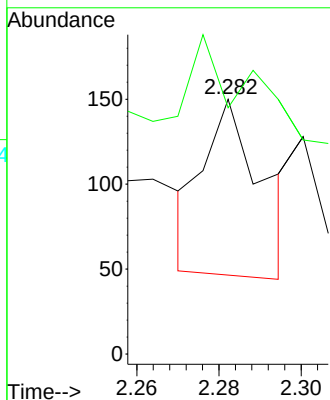
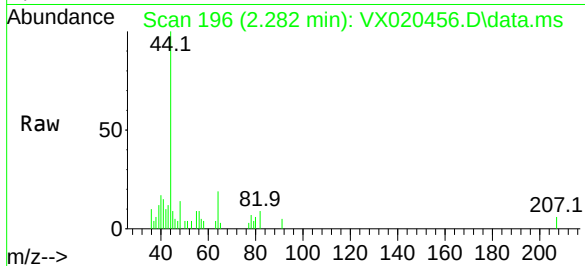




#13
Acrolein
Concen: 0.23 ug/l
RT: 2.282 min Scan# 196
Delta R.T. 0.012 min
Lab File: VX020456.D
Acq: 30 Dec 2020 15:22

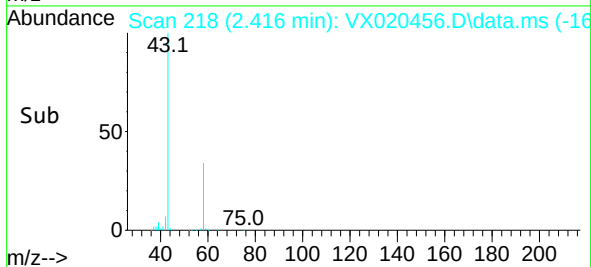
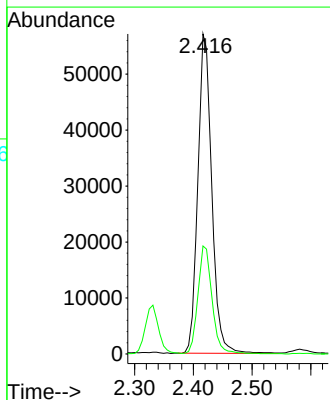
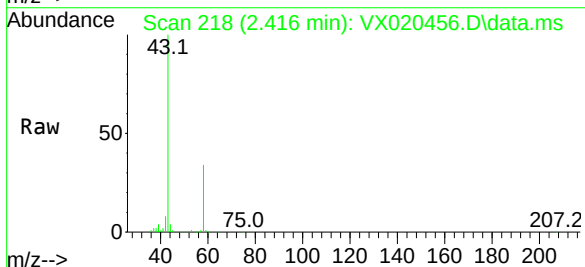
Instrument :
MSVOA_X
ClientSampleId :

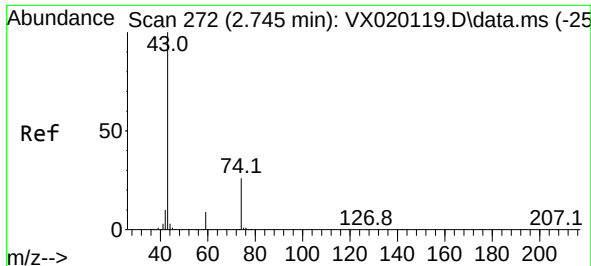
Tgt Ion: 56 Resp: 102
Ion Ratio Lower Upper
56 100
55 0.0 56.4 84.6#



#16
Acetone
Concen: 63.87 ug/l
RT: 2.416 min Scan# 218
Delta R.T. 0.000 min
Lab File: VX020456.D
Acq: 30 Dec 2020 15:22

Tgt Ion: 43 Resp: 94037
Ion Ratio Lower Upper
43 100
58 33.7 27.8 41.8

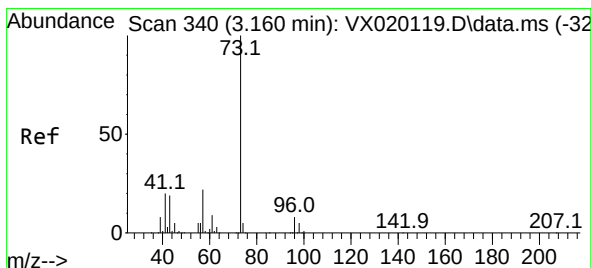
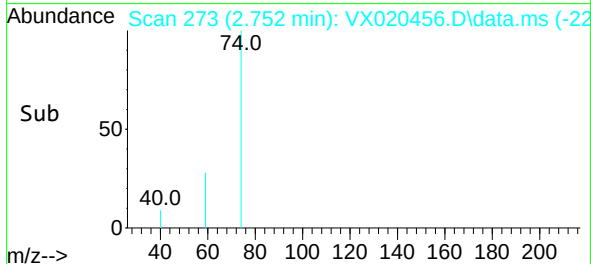
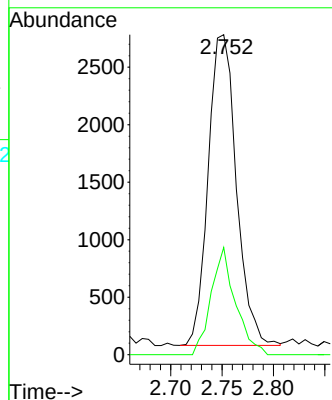
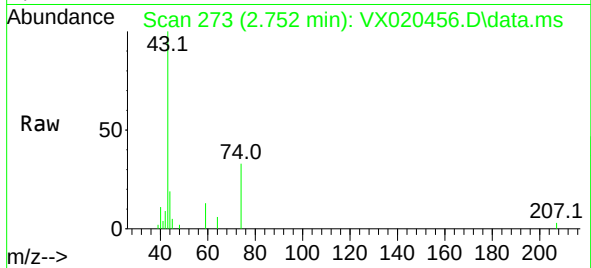




#18
Methyl Acetate
Concen: 1.57 ug/l
RT: 2.752 min Scan# 273
Delta R.T. 0.007 min
Lab File: VX020456.D
Acq: 30 Dec 2020 15:22

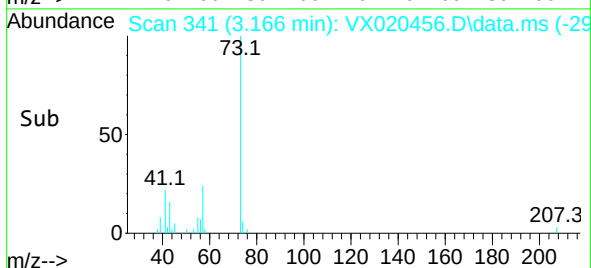
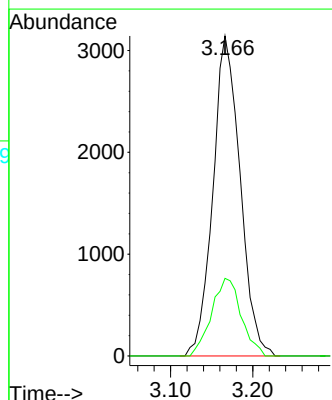
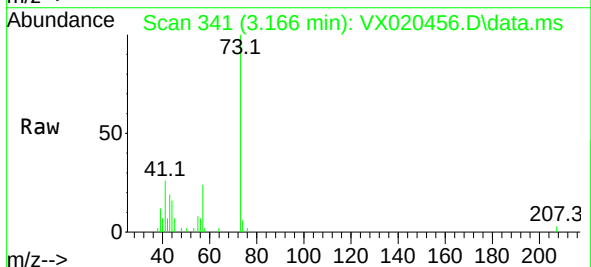
Instrument :
MSVOA_X
ClientSampled :

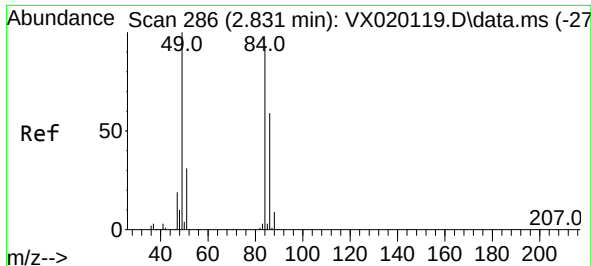
Tgt Ion: 43 Resp: 5158
Ion Ratio Lower Upper
43 100
74 29.7 21.9 32.9



#19
Methyl tert-butyl Ether
Concen: 0.78 ug/l
RT: 3.166 min Scan# 341
Delta R.T. 0.006 min
Lab File: VX020456.D
Acq: 30 Dec 2020 15:22

Tgt Ion: 73 Resp: 7223
Ion Ratio Lower Upper
73 100
57 24.3 17.1 25.7





#20

Methylene Chloride

Concen: 0.24 ug/l

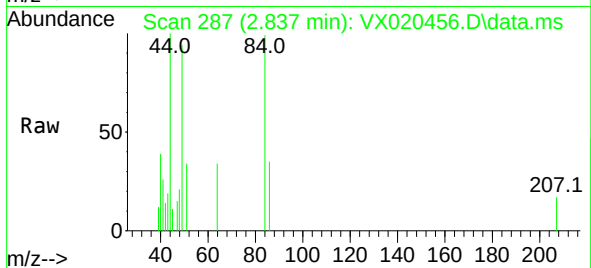
RT: 2.837 min Scan# 287

Delta R.T. 0.006 min

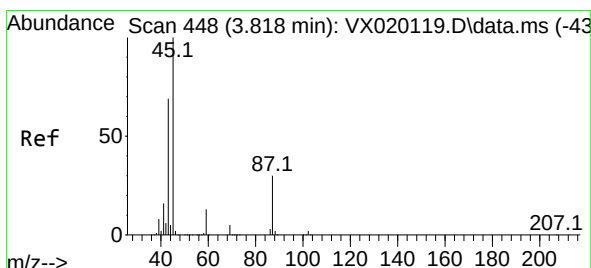
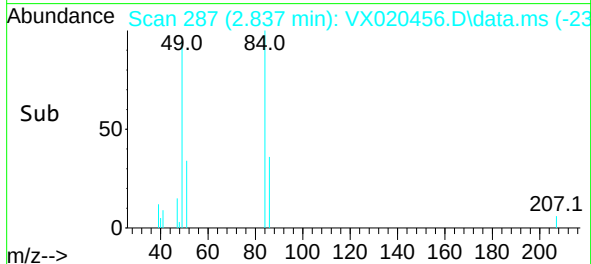
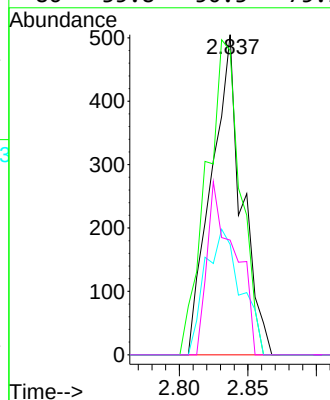
Lab File: VX020456.D

Acq: 30 Dec 2020 15:22

Instrument :
MSVOA_X
ClientSampled :



Tgt Ion: 84	Resp: 780
Ion Ratio	Lower Upper
84 100	
49 95.0	88.6 132.8
51 34.5	27.0 40.6
86 35.8	50.3 75.5#



#22

Diisopropyl ether

Concen: 0.83 ug/l

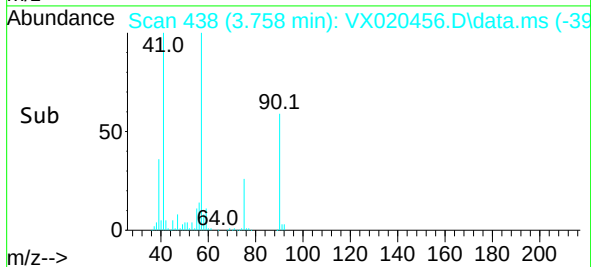
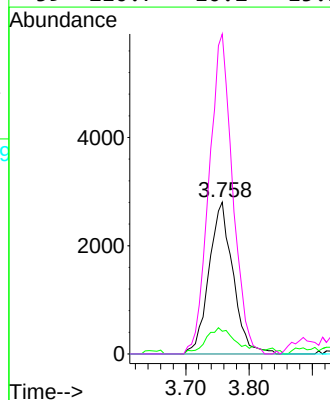
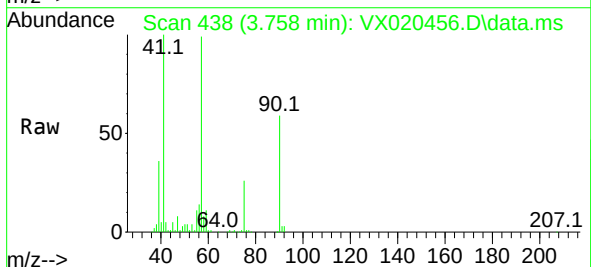
RT: 3.758 min Scan# 438

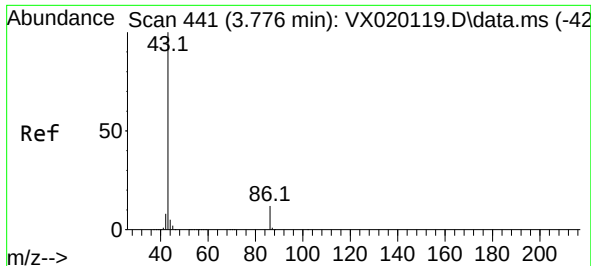
Delta R.T. -0.060 min

Lab File: VX020456.D

Acq: 30 Dec 2020 15:22

Tgt	Ion: 45	Resp:	7398
Ion	Ratio	Lower	Upper
45	100		
43	14.9	58.0	87.0#
87	0.0	25.4	38.0#
59	210.7	10.2	15.2#

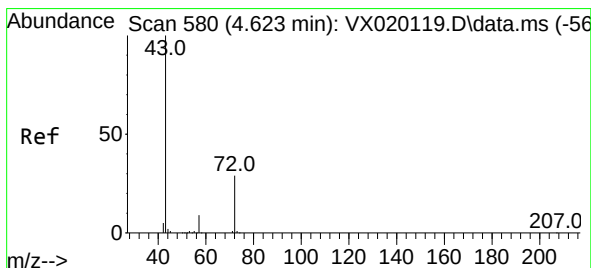
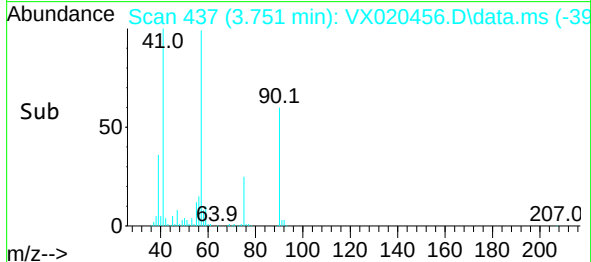
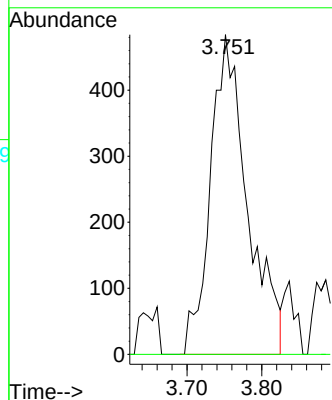
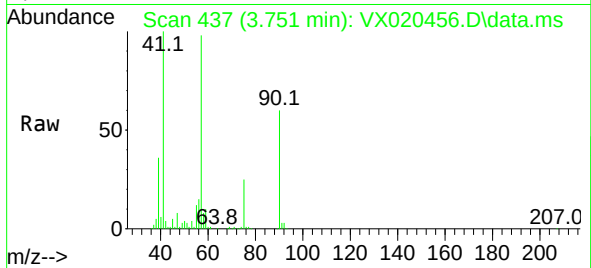




#23
 Vinyl Acetate
 Concen: 0.22 ug/l
 RT: 3.751 min Scan# 437
 Delta R.T. -0.025 min
 Lab File: VX020456.D
 Acq: 30 Dec 2020 15:22

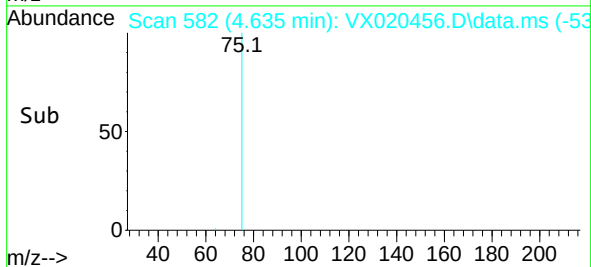
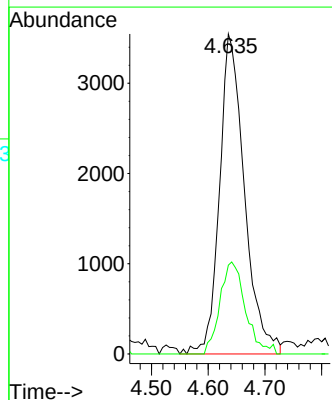
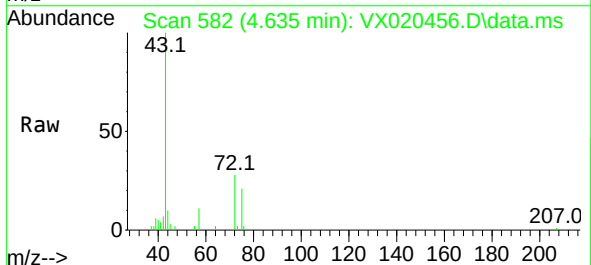
Instrument :
 MSVOA_X
 ClientSampled :

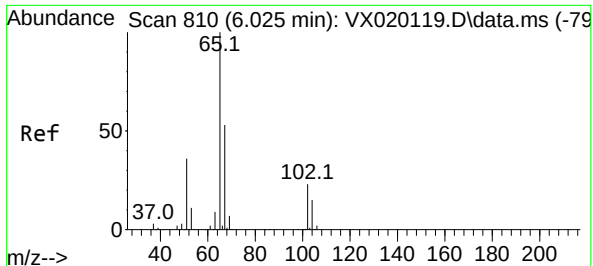
Tgt Ion: 43 Resp: 1668
 Ion Ratio Lower Upper
 43 100
 86 0.0 9.9 14.9#



#25
 2-Butanone
 Concen: 5.06 ug/l
 RT: 4.635 min Scan# 582
 Delta R.T. 0.012 min
 Lab File: VX020456.D
 Acq: 30 Dec 2020 15:22

Tgt Ion: 43 Resp: 10844
 Ion Ratio Lower Upper
 43 100
 72 27.8 23.7 35.5





#33

1,2-Dichloroethane-d4

Concen: 48.43 ug/l

RT: 6.032 min Scan# 811

Delta R.T. 0.007 min

Lab File: VX020456.D

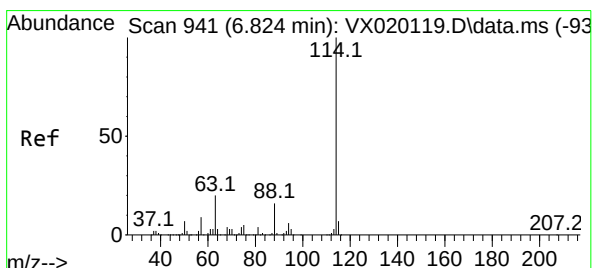
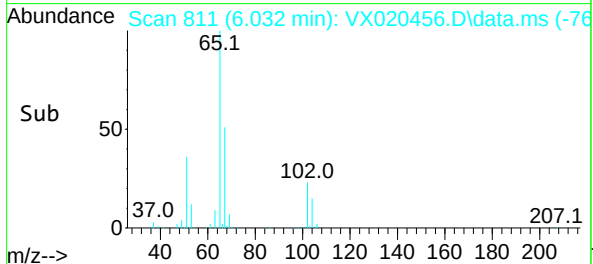
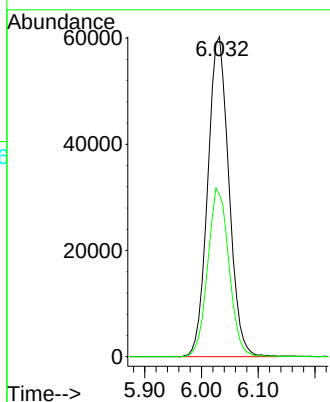
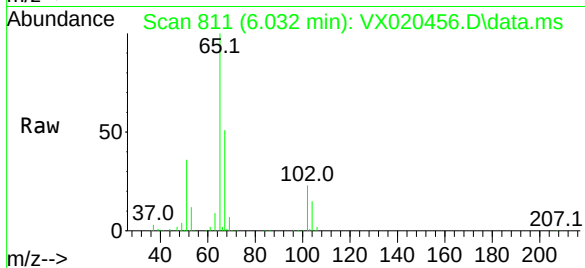
Acq: 30 Dec 2020 15:22

Tgt Ion: 65 Resp: 156353

Ion Ratio Lower Upper

65 100

67 52.9 0.0 105.4



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.830 min Scan# 942

Delta R.T. 0.006 min

Lab File: VX020456.D

Acq: 30 Dec 2020 15:22

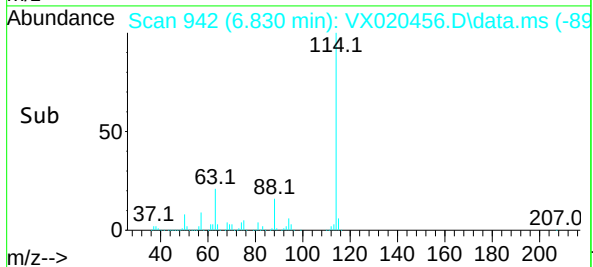
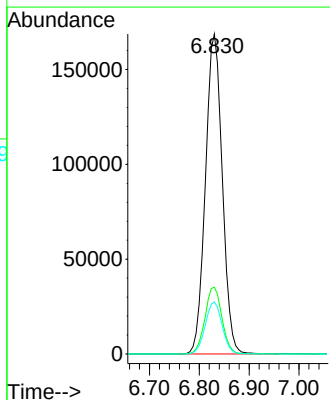
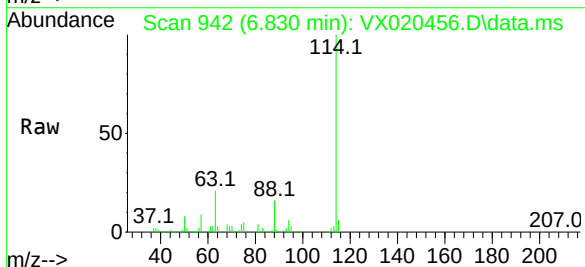
Tgt Ion: 114 Resp: 396288

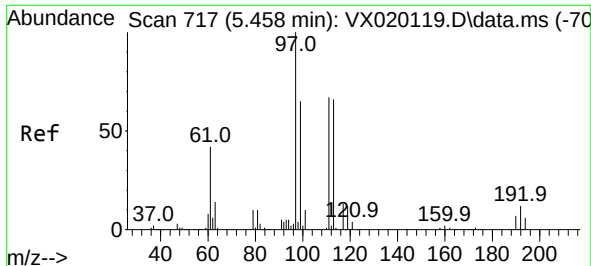
Ion Ratio Lower Upper

114 100

63 20.9 0.0 40.8

88 16.3 0.0 32.8

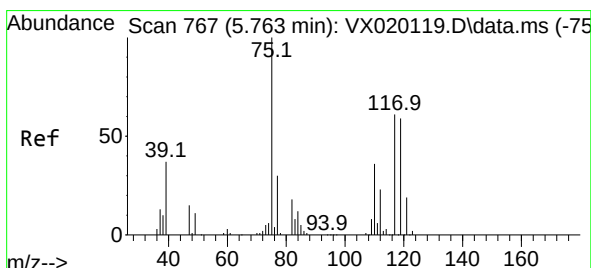
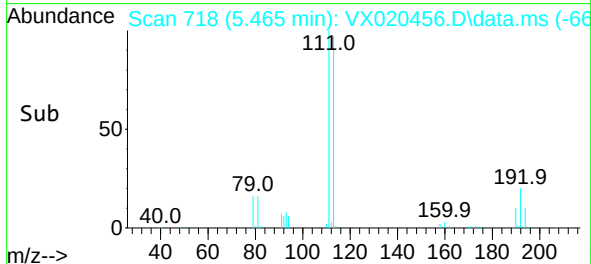
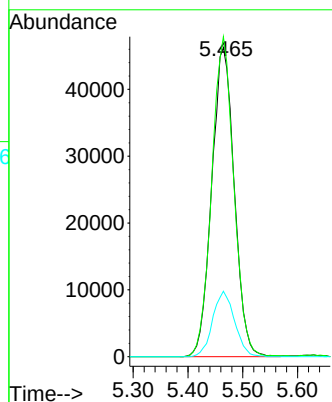
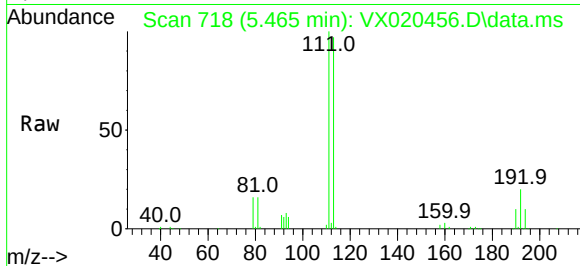




#35
Dibromofluoromethane
Concen: 52.12 ug/l
RT: 5.465 min Scan# 718
Delta R.T. 0.007 min
Lab File: VX020456.D
Acq: 30 Dec 2020 15:22

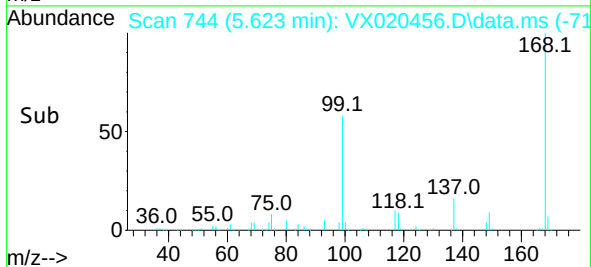
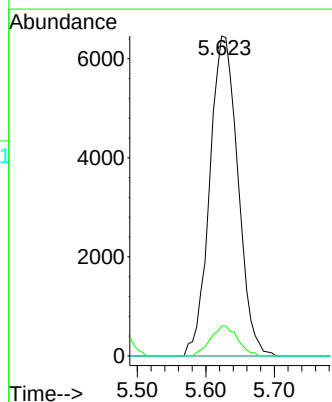
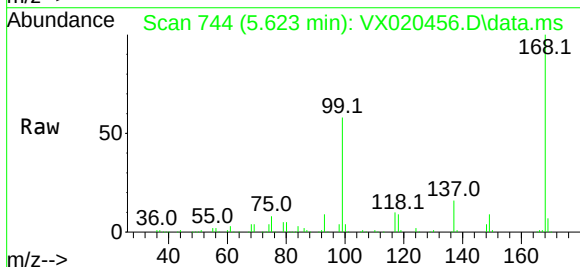
Instrument :
MSVOA_X
ClientSampleId :

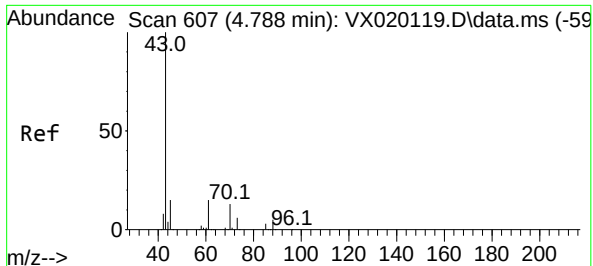
Tgt Ion:113 Resp: 132135
Ion Ratio Lower Upper
113 100
111 101.5 81.9 122.9
192 20.6 16.7 25.1



#36
1,1-Dichloropropene
Concen: 4.71 ug/l
RT: 5.623 min Scan# 744
Delta R.T. -0.140 min
Lab File: VX020456.D
Acq: 30 Dec 2020 15:22

Tgt Ion: 75 Resp: 18464
Ion Ratio Lower Upper
75 100
110 9.1 18.1 54.4#
77 0.0 25.3 37.9#





#37

Ethyl Acetate

Concen: 2.66 ug/l

RT: 4.635 min Scan# 582

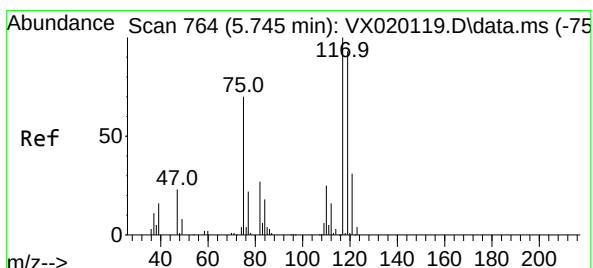
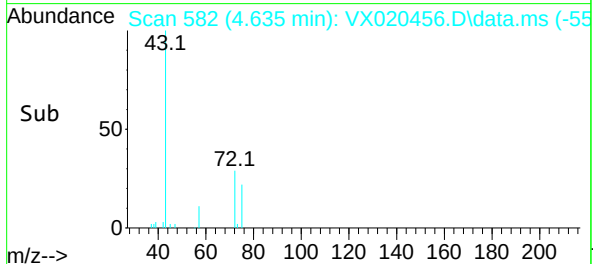
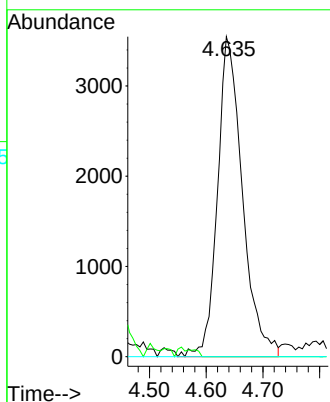
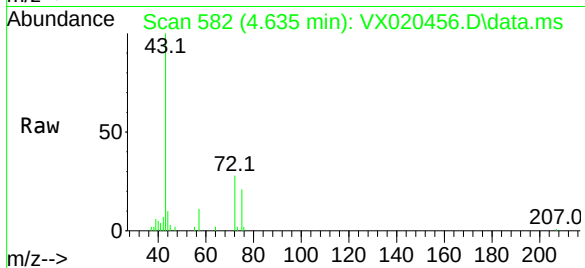
Delta R.T. -0.153 min

Lab File: VX020456.D

Acq: 30 Dec 2020 15:22

Instrument :
MSVOA_X
ClientSampleId :

Tgt Ion: 43	Resp: 10844
Ion Ratio	Lower Upper
43 100	
61 0.0	12.8 19.2#
70 0.0	10.5 15.7#



#38

Carbon Tetrachloride

Concen: 6.33 ug/l

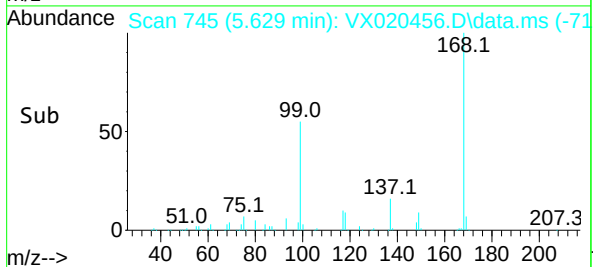
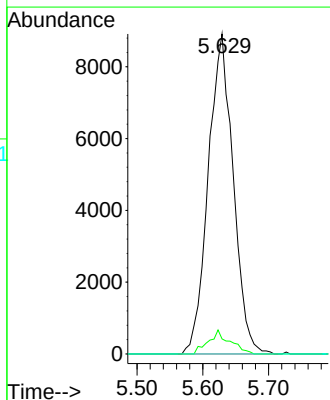
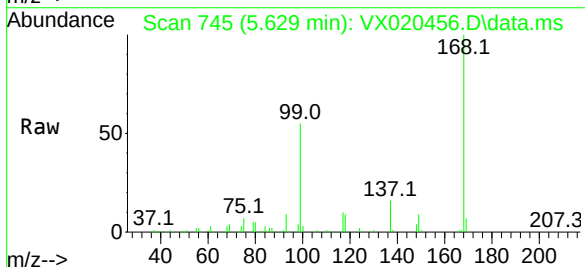
RT: 5.629 min Scan# 745

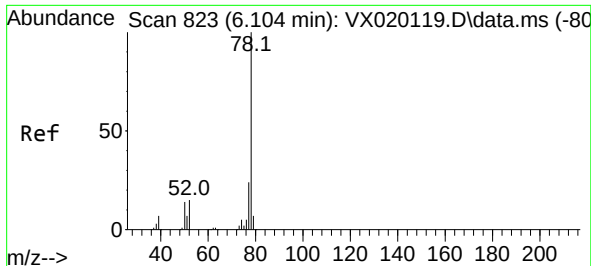
Delta R.T. -0.116 min

Lab File: VX020456.D

Acq: 30 Dec 2020 15:22

Tgt Ion: 117	Resp: 23574
Ion Ratio	Lower Upper
117 100	
119 4.7	76.2 114.2#
121 0.0	24.8 37.2#

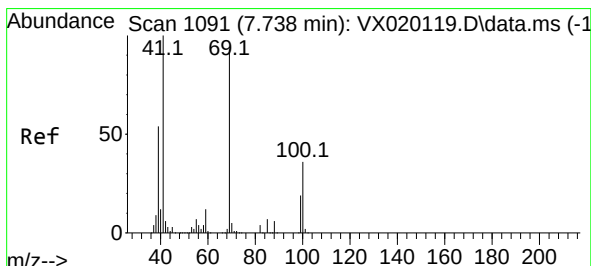
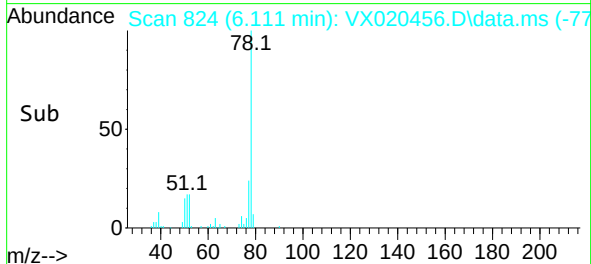
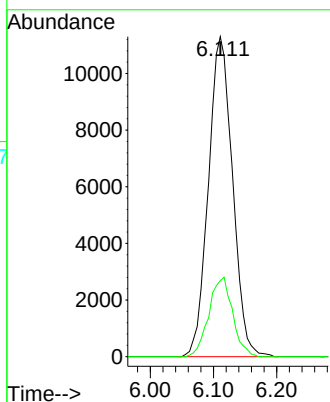
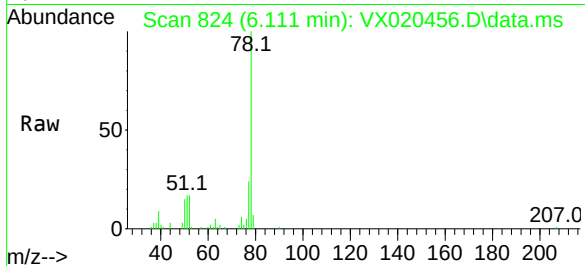




#40
Benzene
Concen: 2.46 ug/l
RT: 6.111 min Scan# 824
Delta R.T. 0.007 min
Lab File: VX020456.D
Acq: 30 Dec 2020 15:22

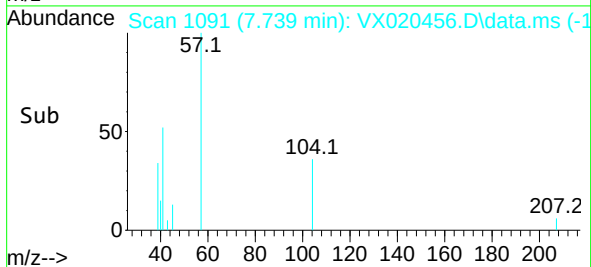
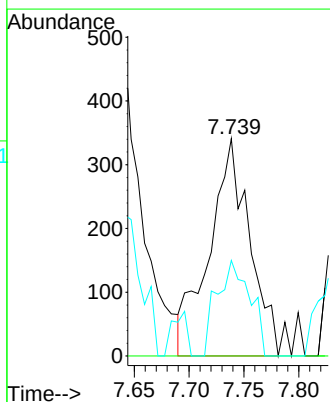
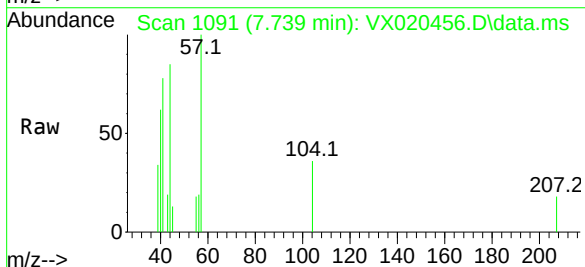
Instrument :
MSVOA_X
ClientSampled :

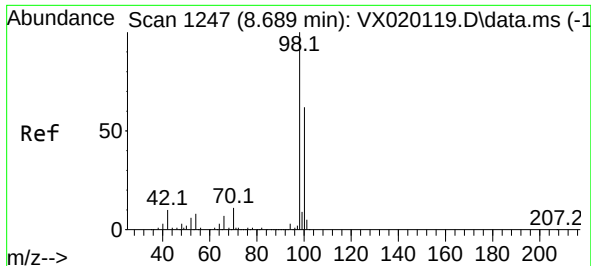
Tgt Ion: 78 Resp: 30006
Ion Ratio Lower Upper
78 100
77 23.8 18.9 28.3



#48
Methyl methacrylate
Concen: 0.28 ug/l
RT: 7.739 min Scan# 1091
Delta R.T. 0.001 min
Lab File: VX020456.D
Acq: 30 Dec 2020 15:22

Tgt Ion: 41 Resp: 874
Ion Ratio Lower Upper
41 100
69 0.0 76.0 114.0#
39 36.0 44.6 67.0#

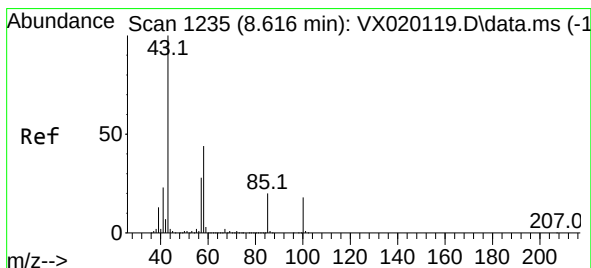
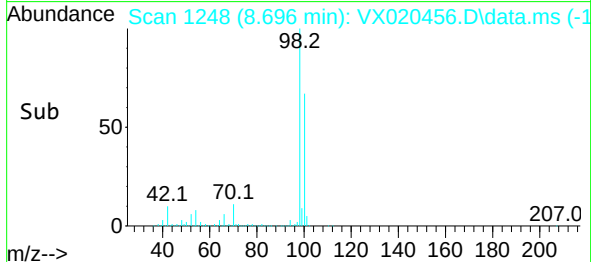
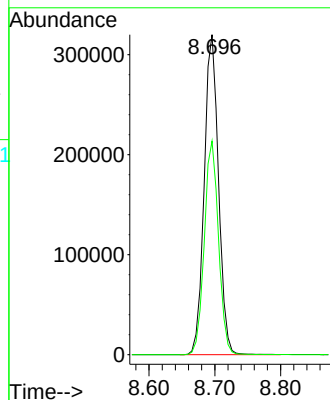
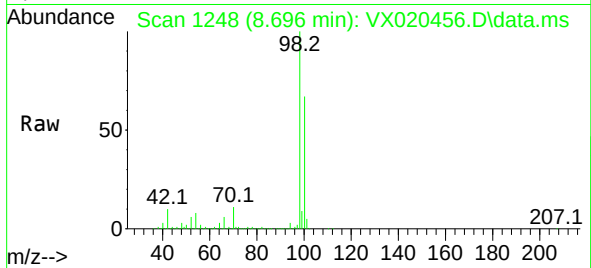




#50
Toluene-d8
Concen: 49.58 ug/l
RT: 8.696 min Scan# 1248
Delta R.T. 0.007 min
Lab File: VX020456.D
Acq: 30 Dec 2020 15:22

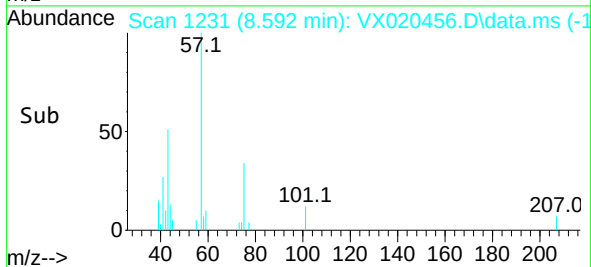
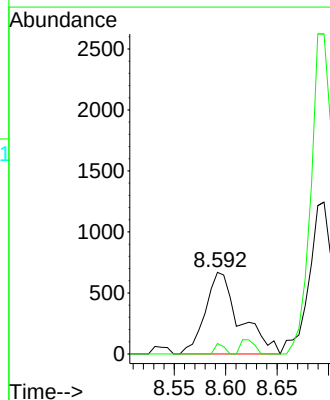
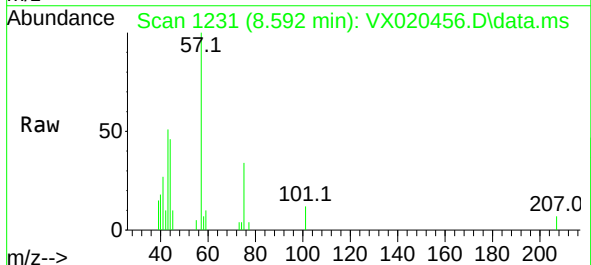
Instrument :
MSVOA_X
ClientSampled :

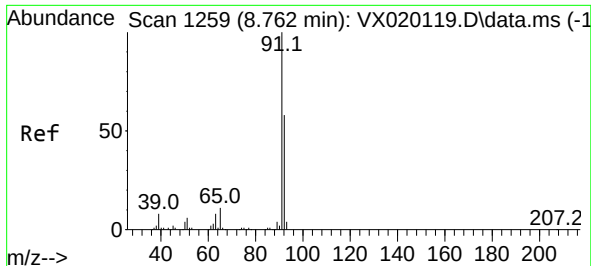
Tgt Ion: 98 Resp: 483841
Ion Ratio Lower Upper
98 100
100 66.3 51.9 77.9



#51
4-Methyl-2-Pentanone
Concen: 0.39 ug/l
RT: 8.592 min Scan# 1231
Delta R.T. -0.024 min
Lab File: VX020456.D
Acq: 30 Dec 2020 15:22

Tgt Ion: 43 Resp: 1564
Ion Ratio Lower Upper
43 100
58 0.0 35.4 53.0#

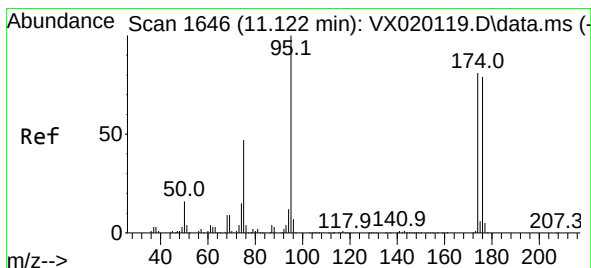
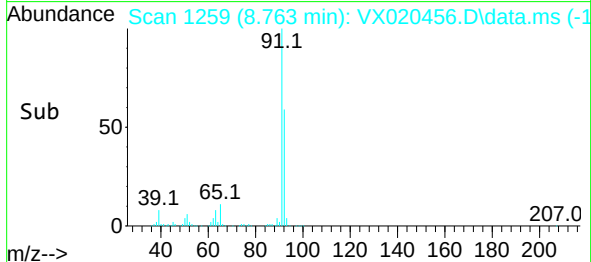
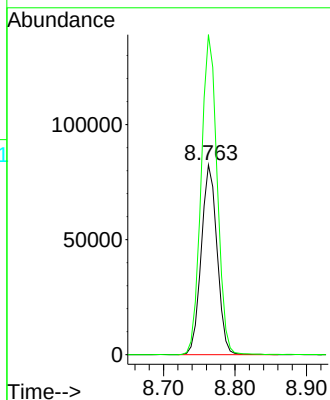
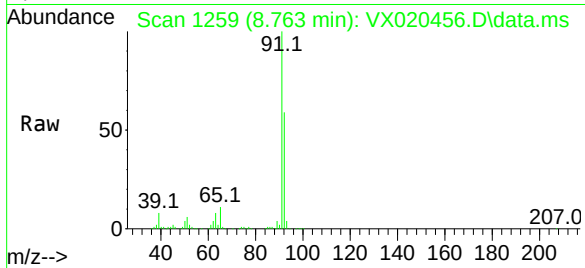




#52
Toluene
Concen: 17.02 ug/l
RT: 8.763 min Scan# 1259
Delta R.T. 0.001 min
Lab File: VX020456.D
Acq: 30 Dec 2020 15:22

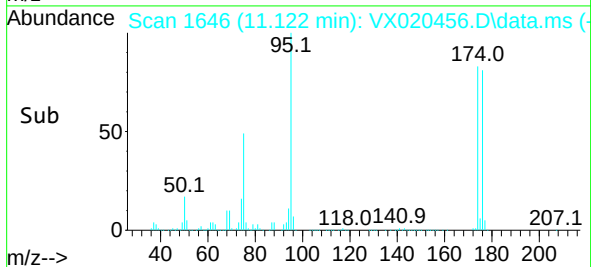
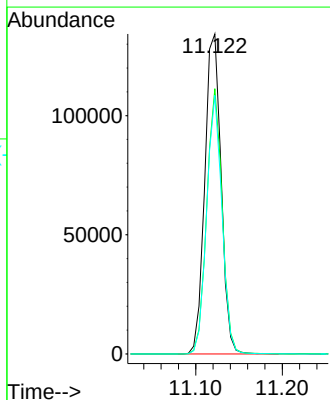
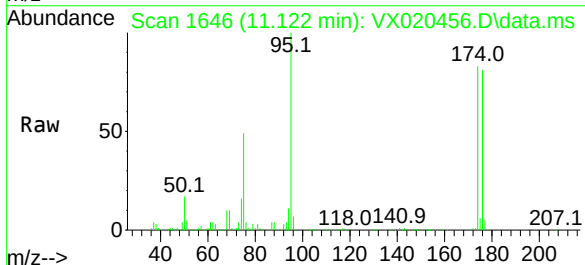
Instrument :
MSVOA_X
ClientSampleId :

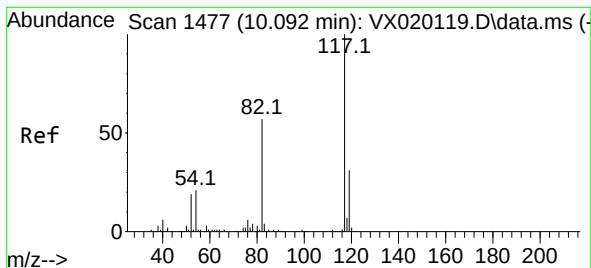
Tgt Ion: 92 Resp: 126658
Ion Ratio Lower Upper
92 100
91 171.4 137.1 205.7



#62
4-Bromofluorobenzene
Concen: 47.02 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. 0.000 min
Lab File: VX020456.D
Acq: 30 Dec 2020 15:22

Tgt Ion: 95 Resp: 175603
Ion Ratio Lower Upper
95 100
174 78.6 0.0 154.6
176 75.9 0.0 155.8

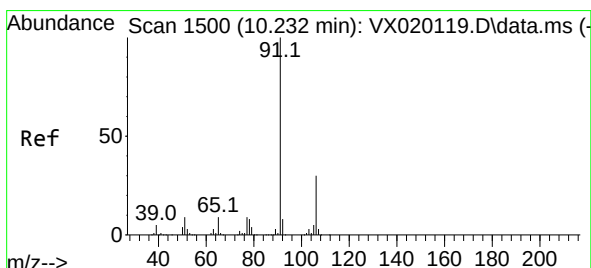
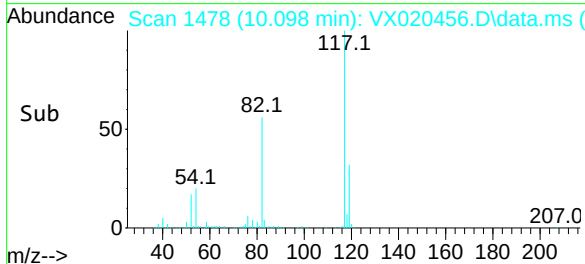
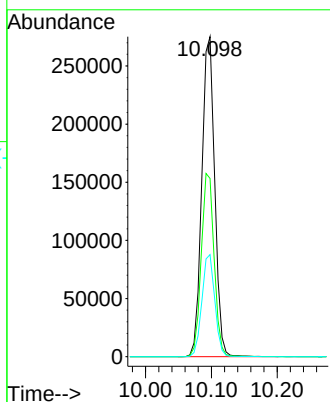
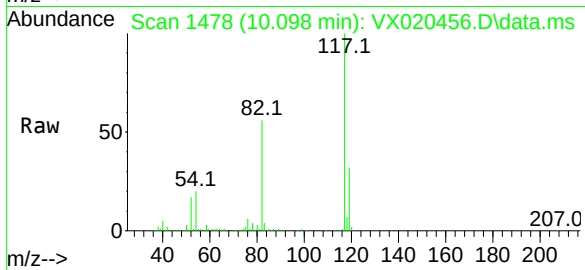




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.098 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VX020456.D
Acq: 30 Dec 2020 15:22

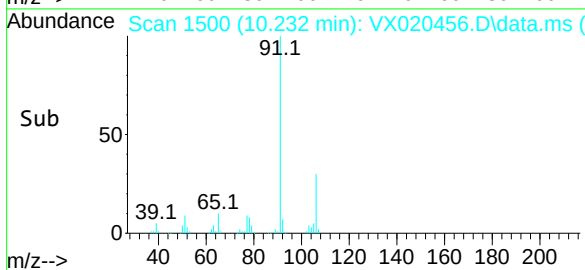
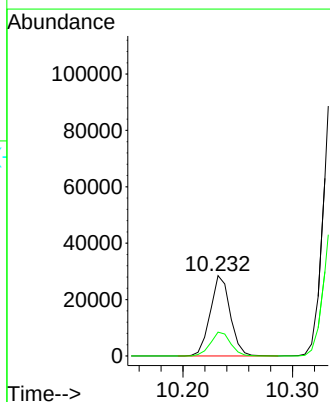
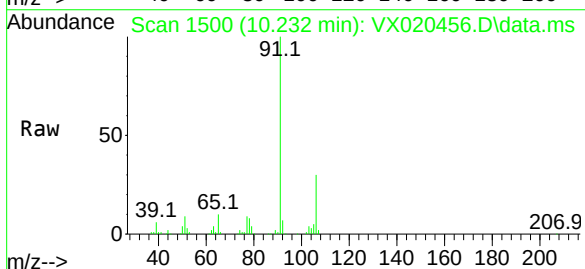
Instrument :
MSVOA_X
ClientSampleId :

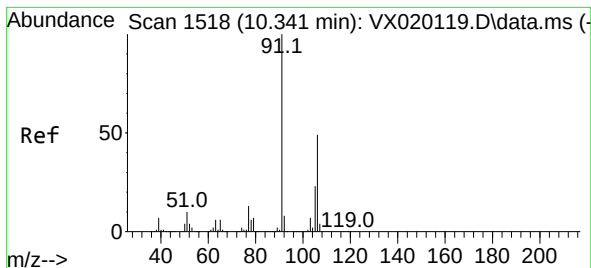
Tgt Ion:117 Resp: 375700
Ion Ratio Lower Upper
117 100
82 55.7 47.4 71.2
119 31.9 26.6 39.8



#67
Ethyl Benzene
Concen: 2.55 ug/l
RT: 10.232 min Scan# 1500
Delta R.T. -0.000 min
Lab File: VX020456.D
Acq: 30 Dec 2020 15:22

Tgt Ion: 91 Resp: 36001
Ion Ratio Lower Upper
91 100
106 29.7 24.6 37.0

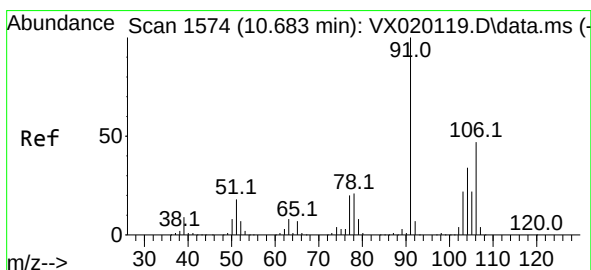
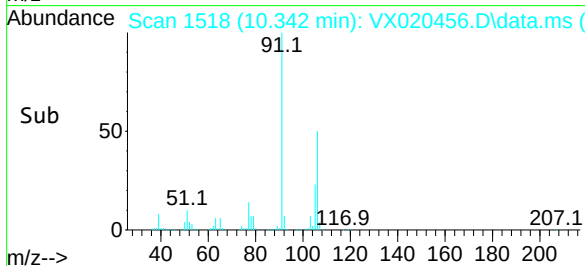
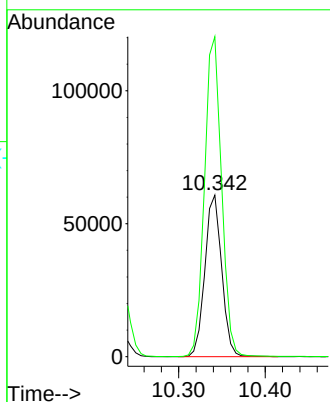
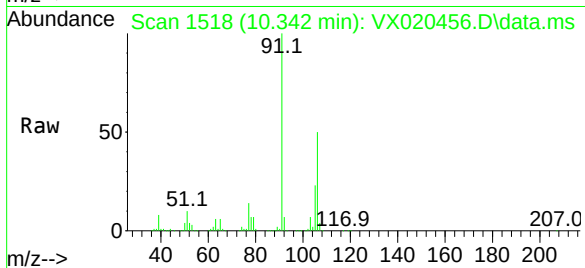




#68
m/p-Xylenes
Concen: 15.57 ug/l
RT: 10.342 min Scan# 1518
Delta R.T. 0.001 min
Lab File: VX020456.D
Acq: 30 Dec 2020 15:22

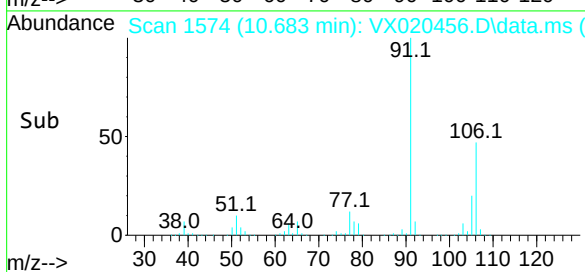
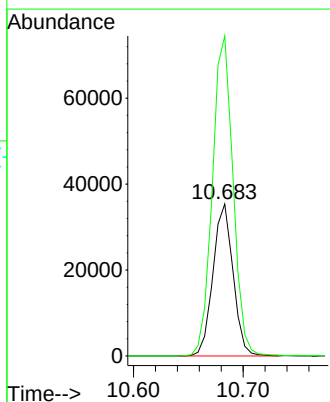
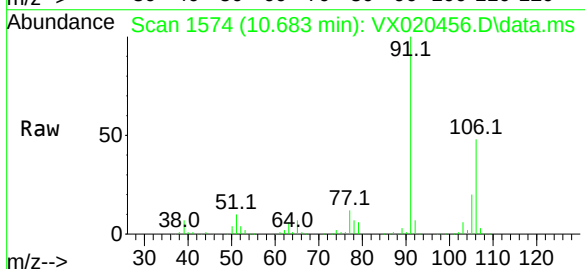
Instrument :
MSVOA_X
ClientSampled :

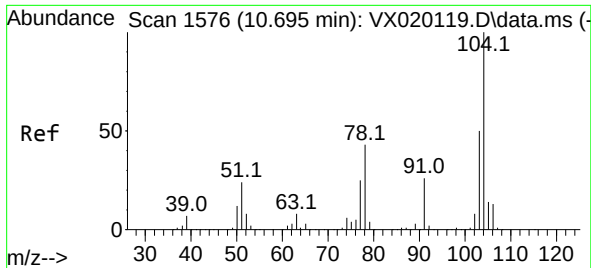
Tgt Ion:106 Resp: 81904
Ion Ratio Lower Upper
106 100
91 201.7 162.8 244.2



#69
o-Xylene
Concen: 8.91 ug/l
RT: 10.683 min Scan# 1574
Delta R.T. 0.000 min
Lab File: VX020456.D
Acq: 30 Dec 2020 15:22

Tgt Ion:106 Resp: 45093
Ion Ratio Lower Upper
106 100
91 216.7 108.1 324.2

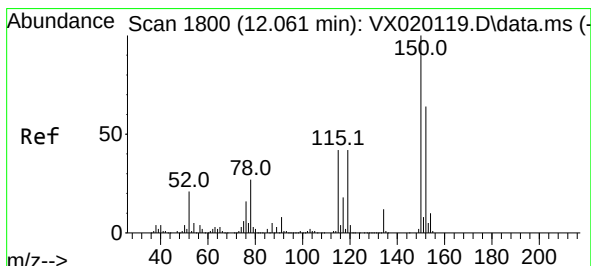
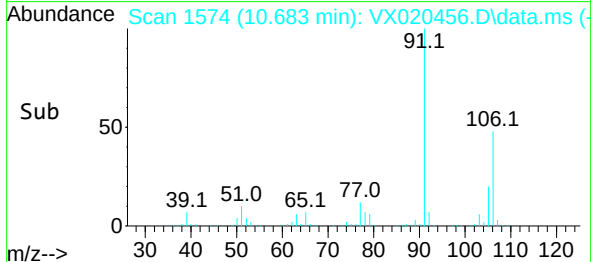
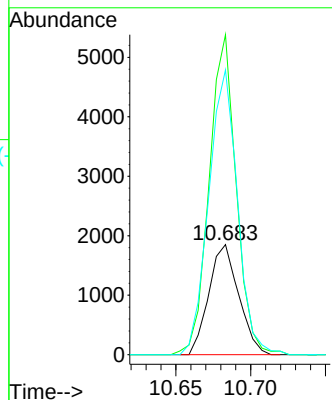
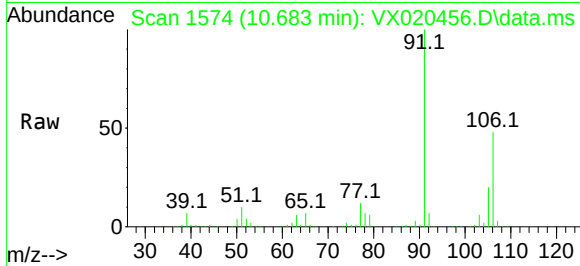




#70
Styrene
Concen: 0.30 ug/l
RT: 10.683 min Scan# 1574
Delta R.T. -0.012 min
Lab File: VX020456.D
Acq: 30 Dec 2020 15:22

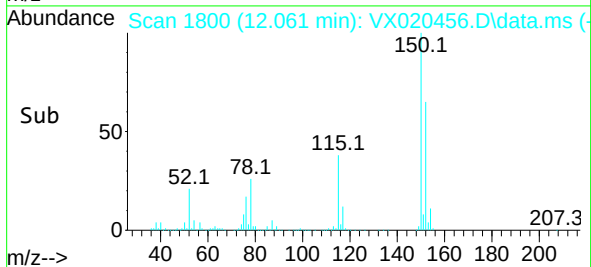
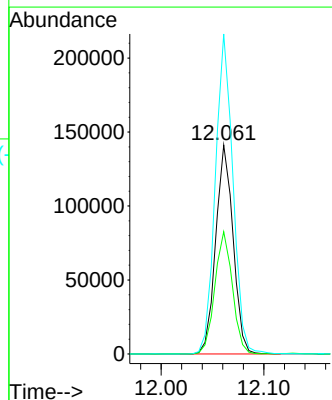
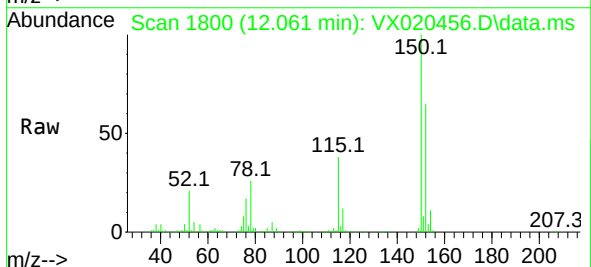
Instrument :
MSVOA_X
ClientSampled :

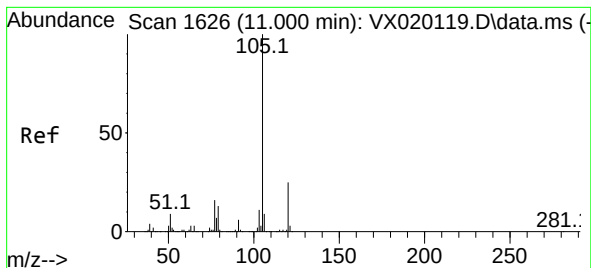
Tgt Ion:104 Resp: 2573
Ion Ratio Lower Upper
104 100
78 263.0 40.0 60.0#
103 249.4 43.4 65.0#



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.061 min Scan# 1800
Delta R.T. -0.000 min
Lab File: VX020456.D
Acq: 30 Dec 2020 15:22

Tgt Ion:152 Resp: 165637
Ion Ratio Lower Upper
152 100
115 59.1 41.1 123.3
150 155.0 0.0 349.0

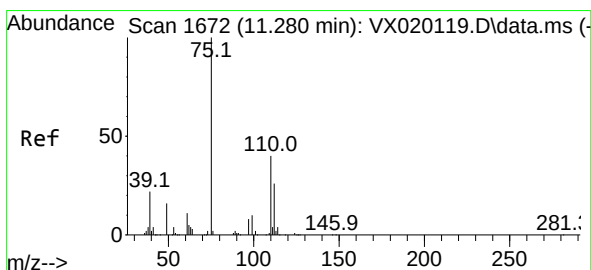
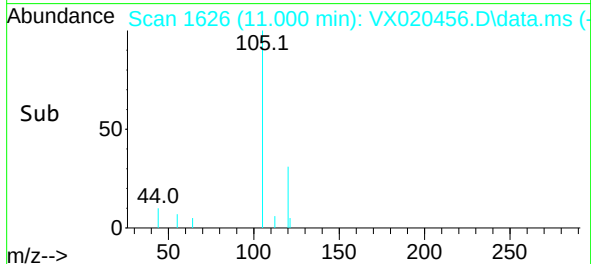
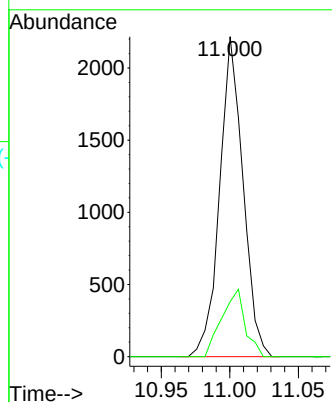
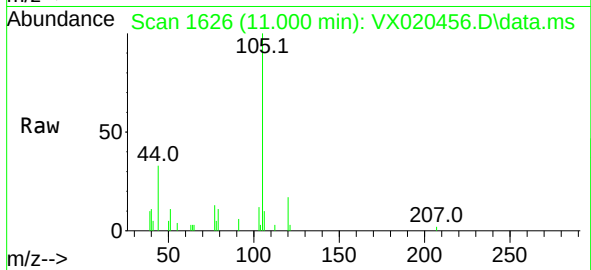




#73
Isopropylbenzene
Concen: 0.22 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. 0.000 min
Lab File: VX020456.D
Acq: 30 Dec 2020 15:22

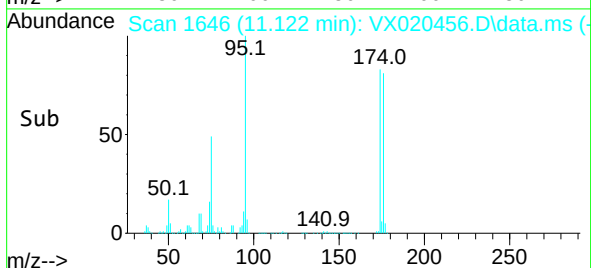
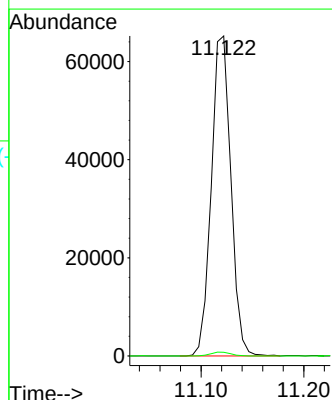
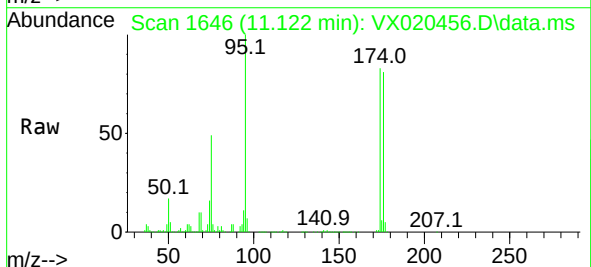
Instrument :
MSVOA_X
ClientSampled :

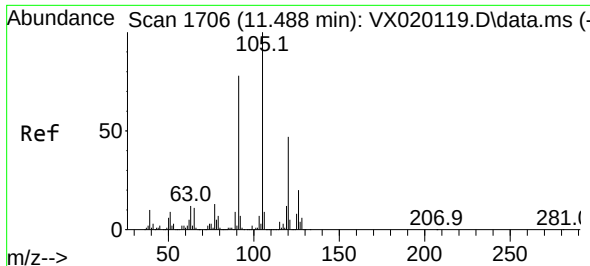
Tgt Ion:105 Resp: 2625
Ion Ratio Lower Upper
105 100
120 21.0 13.2 39.6



#76
1,2,3-Trichloropropane
Concen: 21.17 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. -0.158 min
Lab File: VX020456.D
Acq: 30 Dec 2020 15:22

Tgt Ion: 75 Resp: 86393
Ion Ratio Lower Upper
75 100
77 1.3 19.1 57.5#

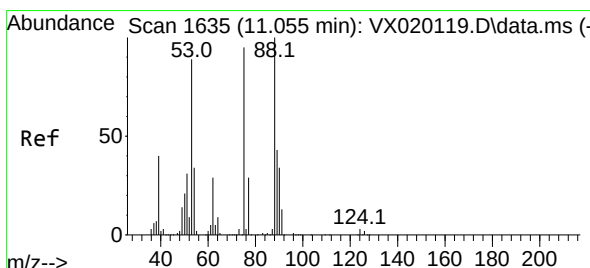
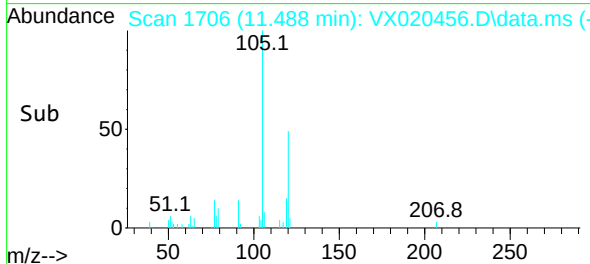
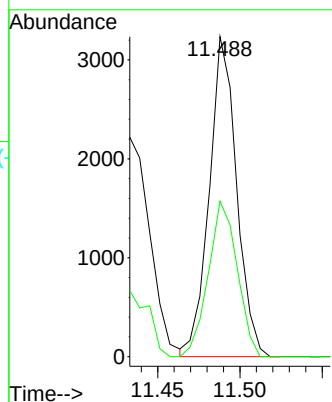
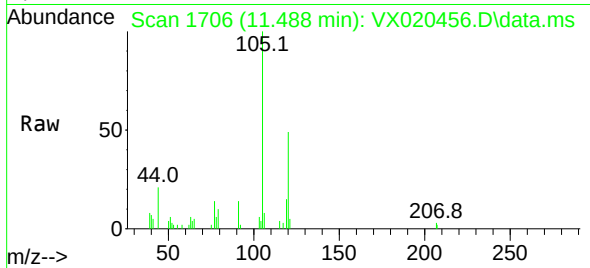




#80
1,3,5-Trimethylbenzene
Concen: 0.37 ug/l
RT: 11.488 min Scan# 1706
Delta R.T. -0.000 min
Lab File: VX020456.D
Acq: 30 Dec 2020 15:22

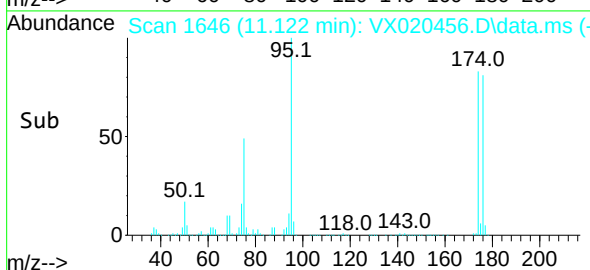
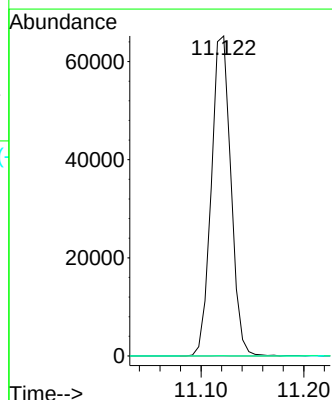
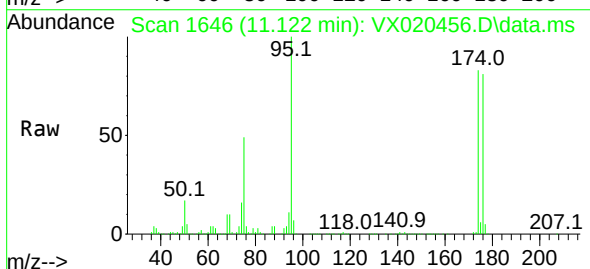
Instrument :
MSVOA_X
ClientSampled :

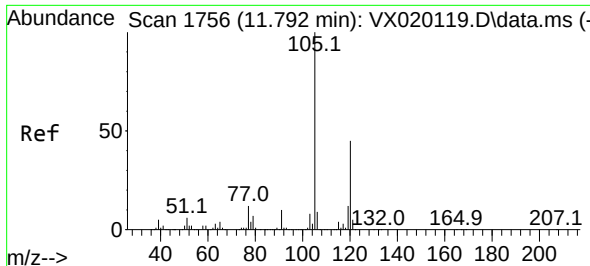
Tgt Ion:105 Resp: 3731
Ion Ratio Lower Upper
105 100
120 51.3 23.8 71.5



#81
trans-1,4-Dichloro-2-butene
Concen: 62.82 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. 0.067 min
Lab File: VX020456.D
Acq: 30 Dec 2020 15:22

Tgt Ion: 75 Resp: 86393
Ion Ratio Lower Upper
75 100
53 0.1 74.5 111.7#
89 0.0 37.9 56.9#

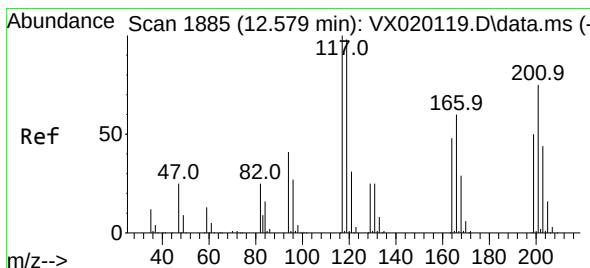
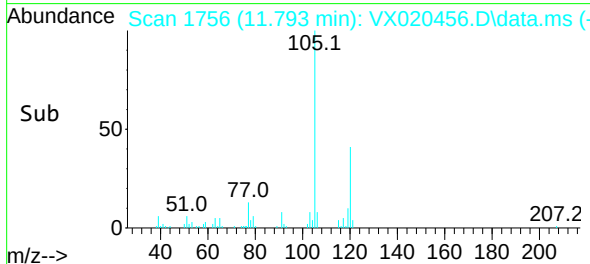
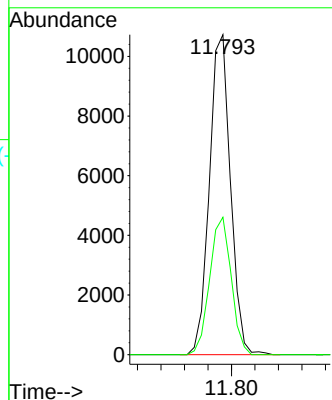
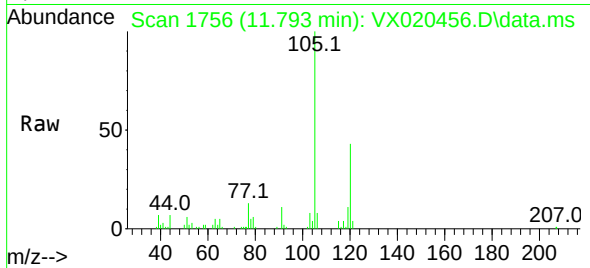




#84
1,2,4-Trimethylbenzene
Concen: 1.30 ug/l
RT: 11.793 min Scan# 1756
Delta R.T. 0.001 min
Lab File: VX020456.D
Acq: 30 Dec 2020 15:22

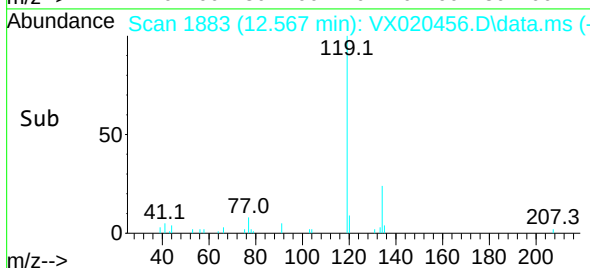
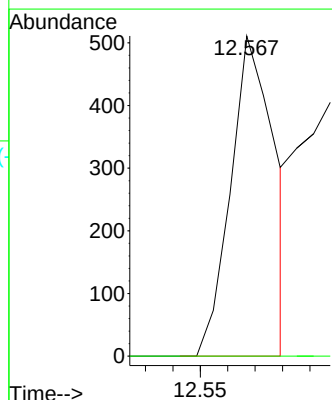
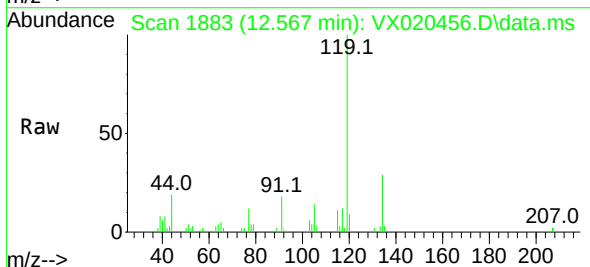
Instrument :
MSVOA_X
ClientSampled :

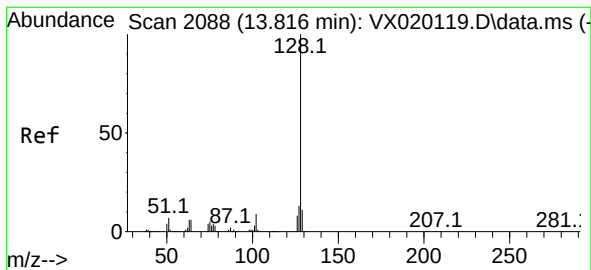
Tgt Ion:105 Resp: 13348
Ion Ratio Lower Upper
105 100
120 43.9 22.4 67.3



#90
Hexachloroethane
Concen: 0.32 ug/l
RT: 12.567 min Scan# 1883
Delta R.T. -0.012 min
Lab File: VX020456.D
Acq: 30 Dec 2020 15:22

Tgt Ion:117 Resp: 570
Ion Ratio Lower Upper
117 100
201 0.0 40.4 121.2#





#95
Naphthalene
Concen: 0.37 ug/l
RT: 13.817 min Scan# 2088
Delta R.T. 0.001 min
Lab File: VX020456.D
Acq: 30 Dec 2020 15:22

Instrument :
MSVOA_X
ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
128	100		
127	14.0	10.3	15.5
129	8.5	8.8	13.2#

