

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX123020\
 Data File : VX020453.D
 Acq On : 30 Dec 2020 14:12
 Operator : JC/MD
 Sample : L5222-05 50X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 31 01:06:29 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)

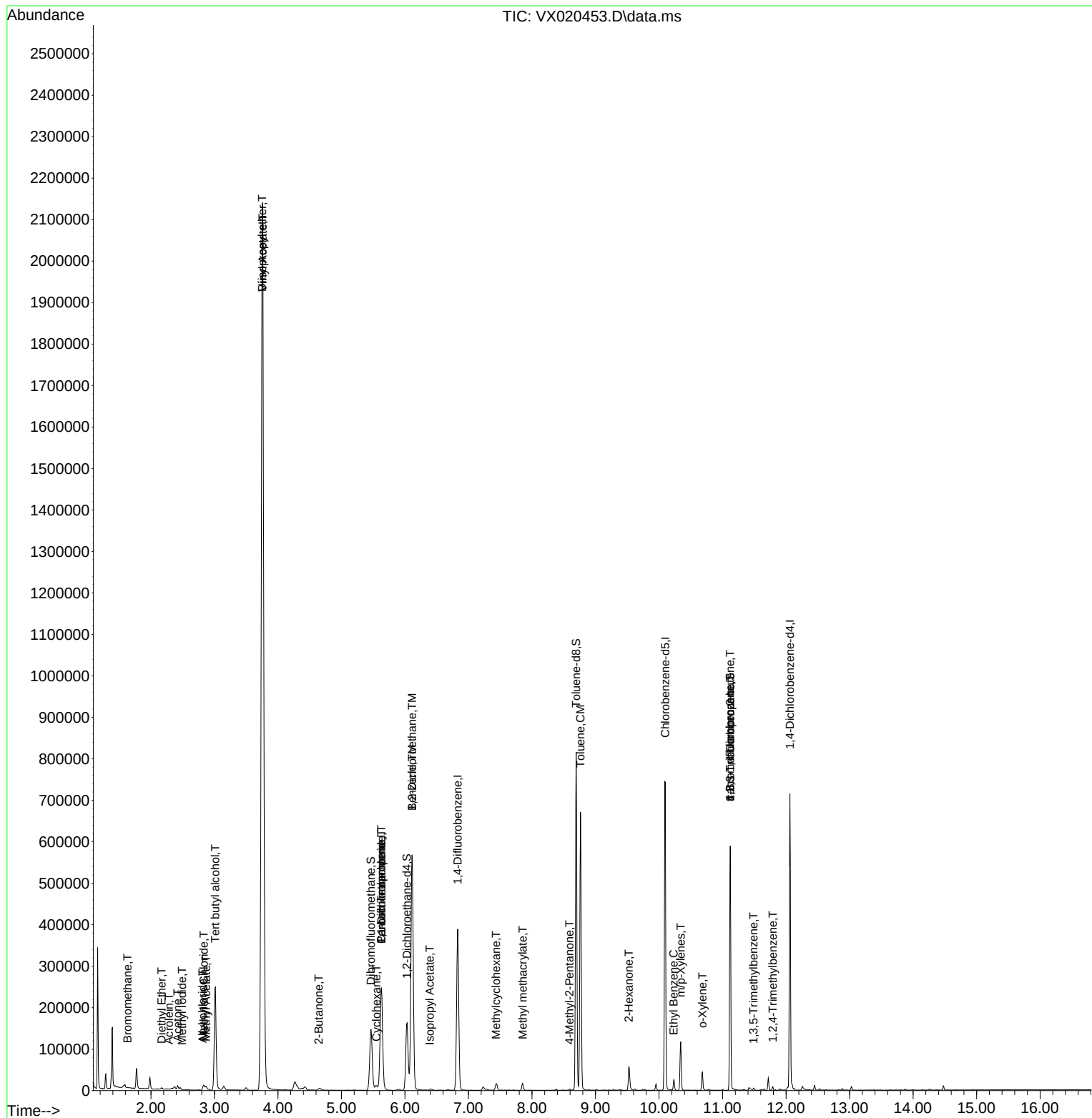
Internal Standards						
1) Pentafluorobenzene	5.629	168	238460	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.830	114	389421	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.098	117	359023	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.061	152	142321	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.031	65	153937	48.16	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	96.32%		
35) Dibromofluoromethane	5.464	113	127789	51.30	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	102.60%		
50) Toluene-d8	8.696	98	469521	48.96	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	97.92%		
62) 4-Bromofluorobenzene	11.122	95	157868	43.02	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	86.04%		
Target Compounds						Qvalue
5) Bromomethane	1.630	94	596	0.57	ug/l #	80
8) Diethyl Ether	2.166	74	1116	0.61	ug/l	99
10) Methyl Iodide	2.489	142	546	3.44	ug/l	93
11) Tert butyl alcohol	3.014	59	23276	32.52	ug/l #	73
13) Acrolein	2.282	56	153	0.34	ug/l #	14
14) Allyl chloride	2.813	41	1460	0.34	ug/l #	56
16) Acetone	2.416	43	9978	6.85	ug/l	97
18) Methyl Acetate	2.867	43	5849	1.80	ug/l #	47
20) Methylene Chloride	2.831	84	4674	1.42	ug/l	89
22) Diisopropyl ether	3.751	45	70192	7.95	ug/l #	1
23) Vinyl Acetate	3.757	43	6874	0.91	ug/l #	68
25) 2-Butanone	4.641	43	1866	0.88	ug/l	97
31) Cyclohexane	5.550	56	7251	1.65	ug/l	95
36) 1,1-Dichloropropene	5.629	75	18355	4.77	ug/l #	49
38) Carbon Tetrachloride	5.629	117	23486	6.42	ug/l #	16
39) Methylcyclohexane	7.434	83	6904	1.55	ug/l	86
40) Benzene	6.111	78	704671	58.82	ug/l	99
42) 1,2-Dichloroethane	6.111	62	6196	1.51	ug/l #	73
43) Isopropyl Acetate	6.391	43	1334	0.21	ug/l #	63
48) Methyl methacrylate	7.854	41	2063	0.67	ug/l #	35
51) 4-Methyl-2-Pentanone	8.592	43	1141	0.29	ug/l #	32
52) Toluene	8.763	92	255031	34.88	ug/l	100
59) 2-Hexanone	9.525	43	3081	1.03	ug/l	85
67) Ethyl Benzene	10.232	91	14507	1.08	ug/l	99
68) m/p-Xylenes	10.342	106	27660	5.50	ug/l	98
69) o-Xylene	10.683	106	9245	1.91	ug/l	96
76) 1,2,3-Trichloropropane	11.122	75	77274	22.04	ug/l #	39
80) 1,3,5-Trimethylbenzene	11.488	105	2169	0.25	ug/l	95
81) trans-1,4-Dichloro-2-b...	11.122	75	77274	65.39	ug/l #	12
84) 1,2,4-Trimethylbenzene	11.793	105	3856	0.44	ug/l	99

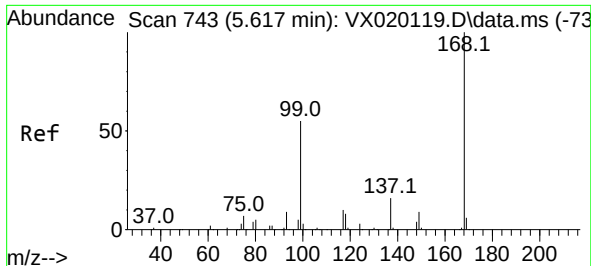
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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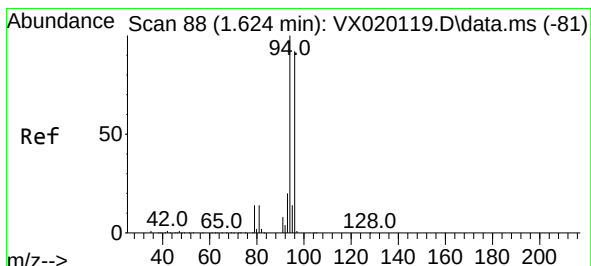
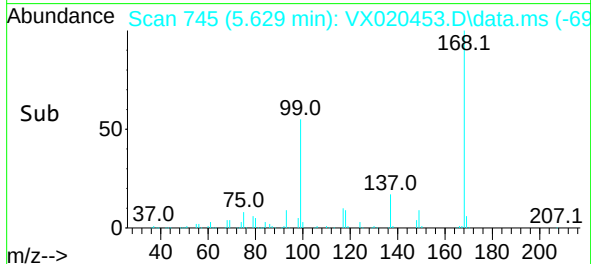
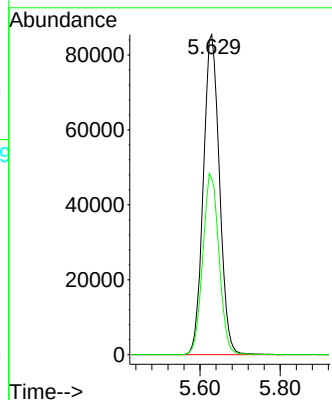
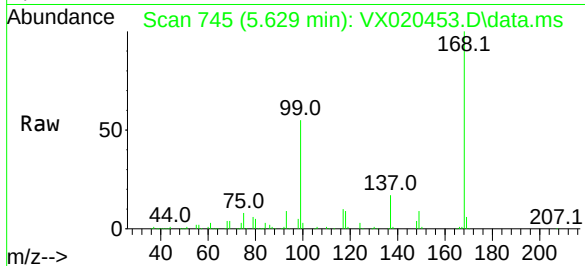




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 745
Delta R.T. 0.012 min
Lab File: VX020453.D
Acq: 30 Dec 2020 14:12

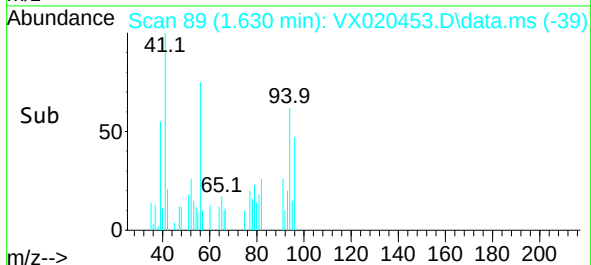
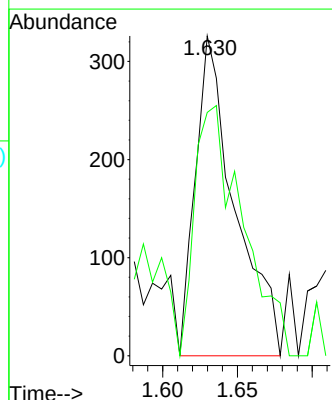
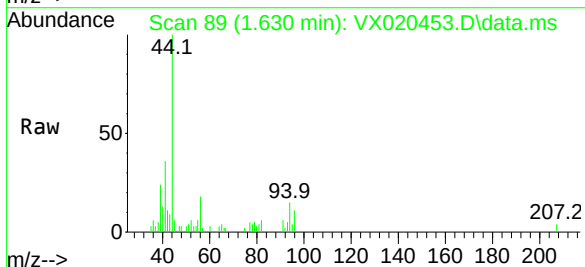
Instrument :
MSVOA_X
ClientSampled :

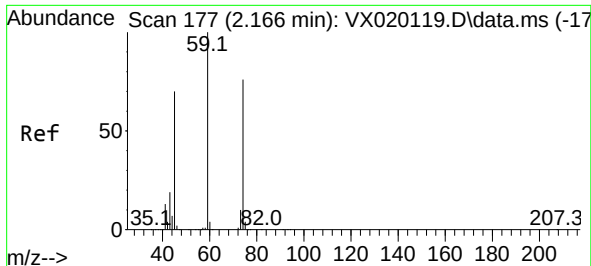
Tgt Ion:168 Resp: 238460
Ion Ratio Lower Upper
168 100
99 55.0 45.8 68.6



#5
Bromomethane
Concen: 0.57 ug/l
RT: 1.630 min Scan# 89
Delta R.T. 0.006 min
Lab File: VX020453.D
Acq: 30 Dec 2020 14:12

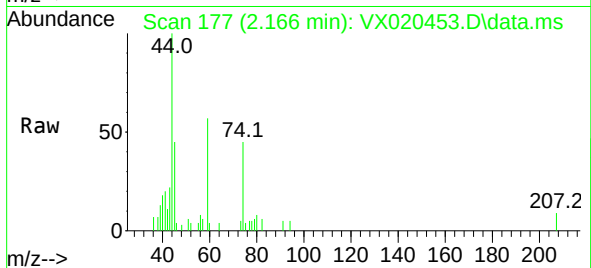
Tgt Ion: 94 Resp: 596
Ion Ratio Lower Upper
94 100
96 76.1 76.4 114.6#



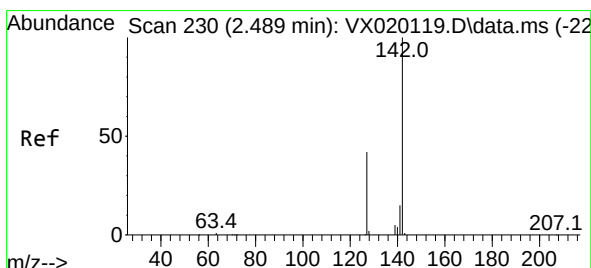
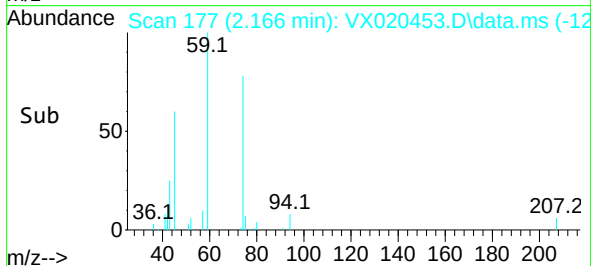
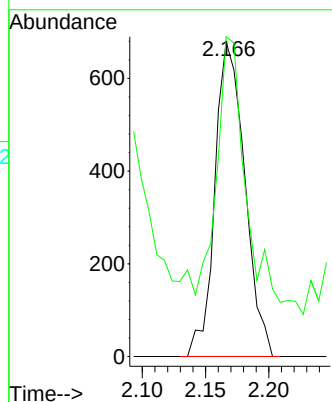


#8
Diethyl Ether
Concen: 0.61 ug/l
RT: 2.166 min Scan# 177
Delta R.T. 0.000 min
Lab File: VX020453.D
Acq: 30 Dec 2020 14:12

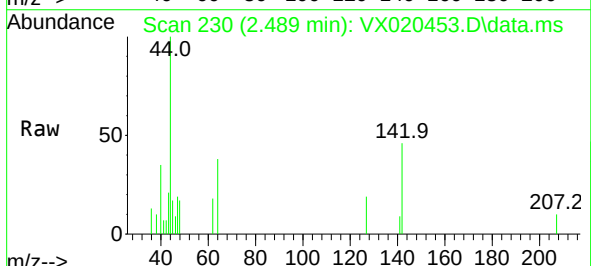
Instrument :
MSVOA_X
ClientSampleId :



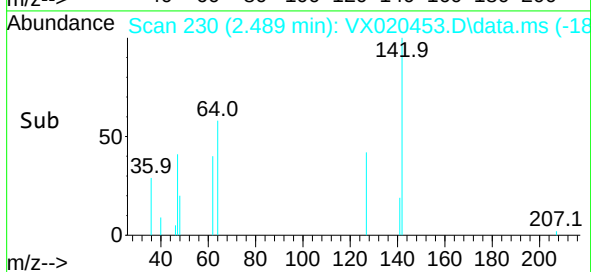
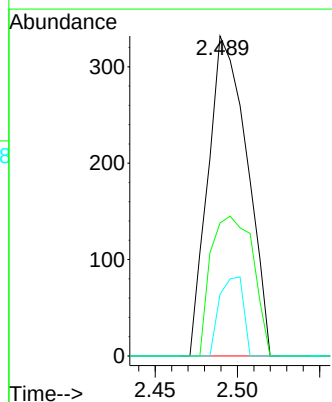
Tgt Ion: 74 Resp: 1116
Ion Ratio Lower Upper
74 100
45 87.9 44.5 133.5

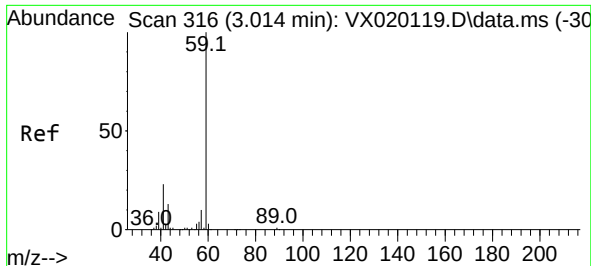


#10
Methyl Iodide
Concen: 3.44 ug/l
RT: 2.489 min Scan# 230
Delta R.T. 0.000 min
Lab File: VX020453.D
Acq: 30 Dec 2020 14:12



Tgt Ion: 142 Resp: 546
Ion Ratio Lower Upper
142 100
127 47.3 33.3 49.9
141 15.2 11.4 17.0

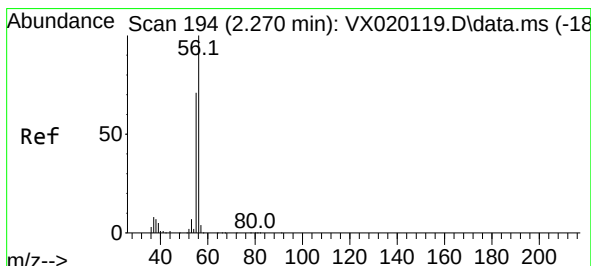
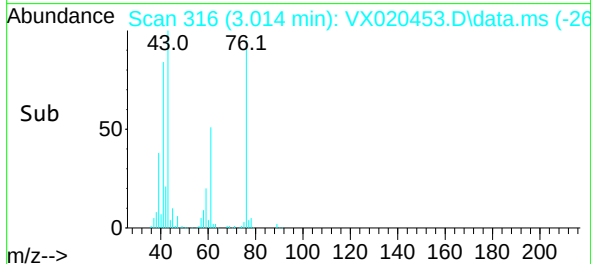
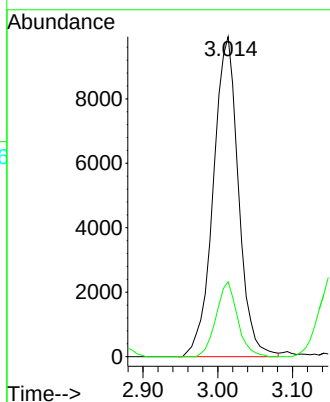
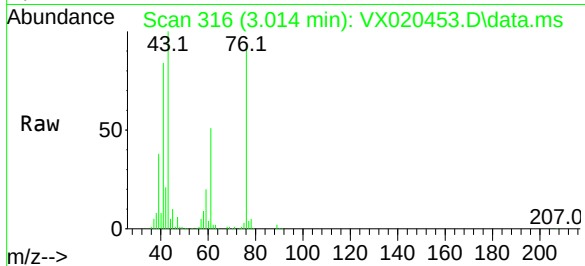




#11
Tert butyl alcohol
Concen: 32.52 ug/l
RT: 3.014 min Scan# 316
Delta R.T. -0.000 min
Lab File: VX020453.D
Acq: 30 Dec 2020 14:12

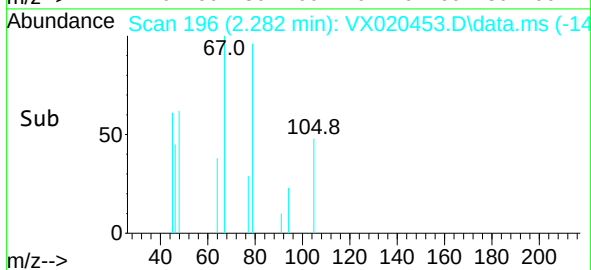
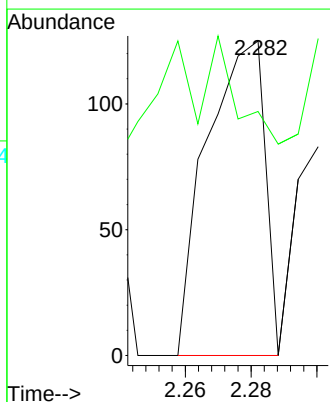
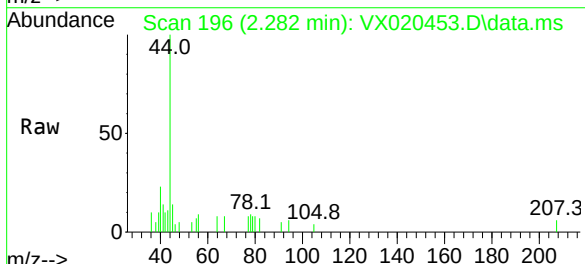
Instrument :
MSVOA_X
ClientSampled :

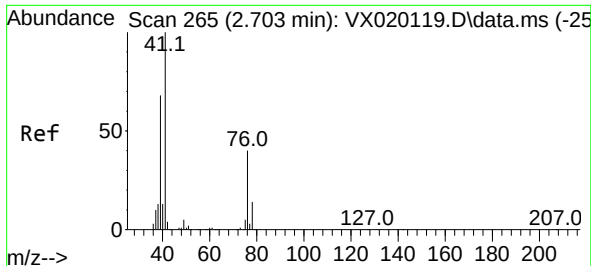
Tgt Ion: 59 Resp: 23276
Ion Ratio Lower Upper
59 100
57 19.9 7.8 11.8#



#13
Acrolein
Concen: 0.34 ug/l
RT: 2.282 min Scan# 196
Delta R.T. 0.012 min
Lab File: VX020453.D
Acq: 30 Dec 2020 14:12

Tgt Ion: 56 Resp: 153
Ion Ratio Lower Upper
56 100
55 0.0 56.4 84.6#





#14

Allyl chloride

Concen: 0.34 ug/l

RT: 2.813 min Scan# 283

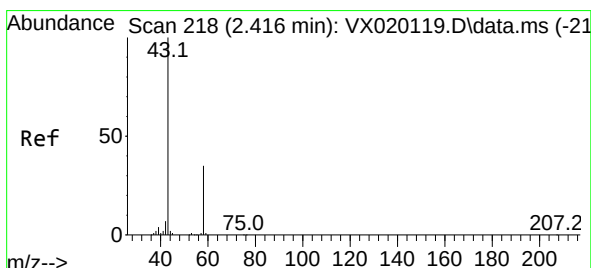
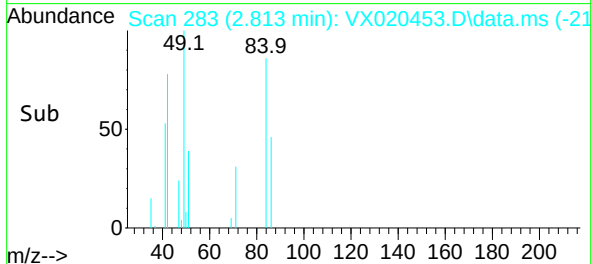
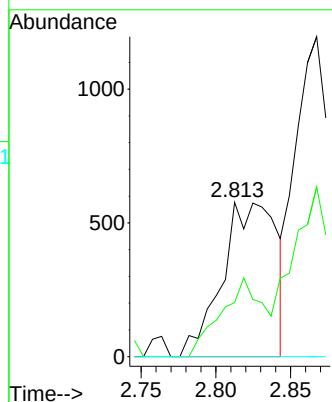
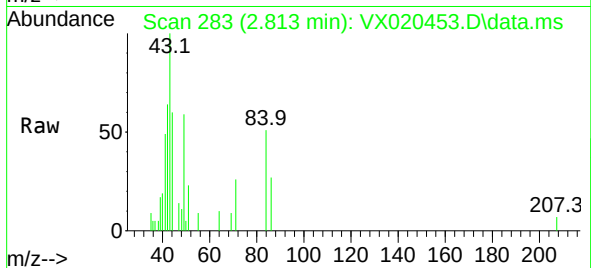
Delta R.T. 0.110 min

Lab File: VX020453.D

Acq: 30 Dec 2020 14:12

Tgt Ion: 41	Resp: 1460
Ion Ratio	Lower Upper
41 100	
39 39.1	51.6 77.4#
76 0.0	30.5 45.7#

Instrument :
MSVOA_X
ClientSampled :



#16

Acetone

Concen: 6.85 ug/l

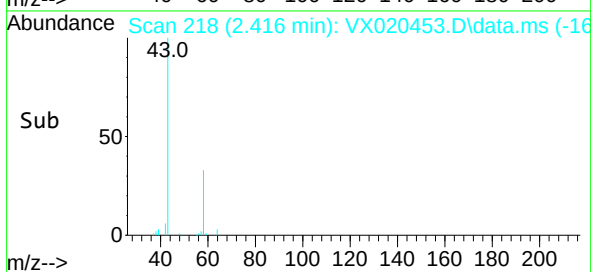
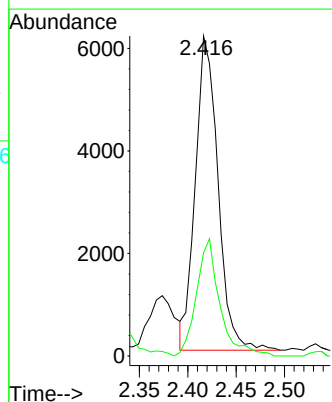
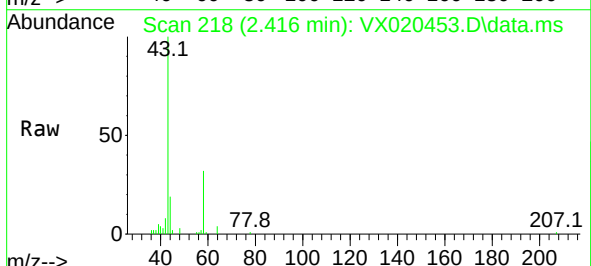
RT: 2.416 min Scan# 218

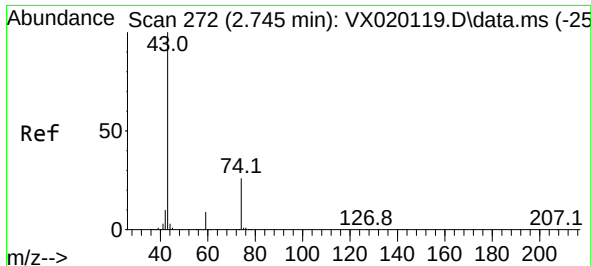
Delta R.T. 0.000 min

Lab File: VX020453.D

Acq: 30 Dec 2020 14:12

Tgt Ion: 43	Resp: 9978
Ion Ratio	Lower Upper
43 100	
58 32.8	27.8 41.8

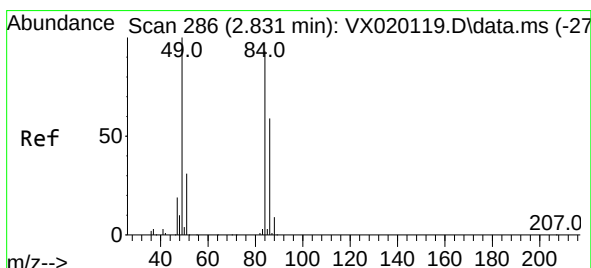
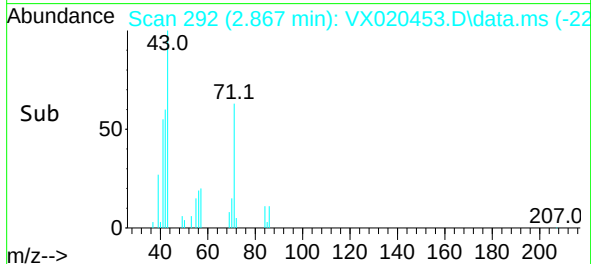
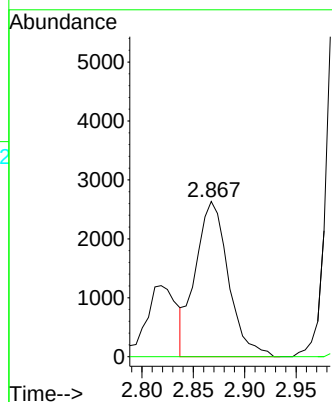
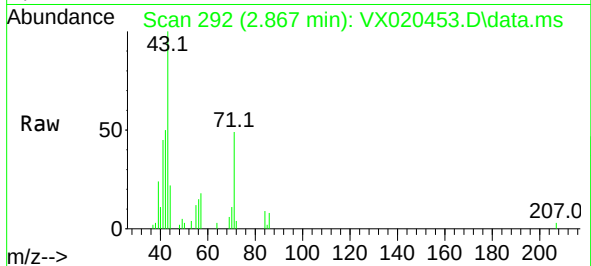




#18
Methyl Acetate
Concen: 1.80 ug/l
RT: 2.867 min Scan# 292
Delta R.T. 0.122 min
Lab File: VX020453.D
Acq: 30 Dec 2020 14:12

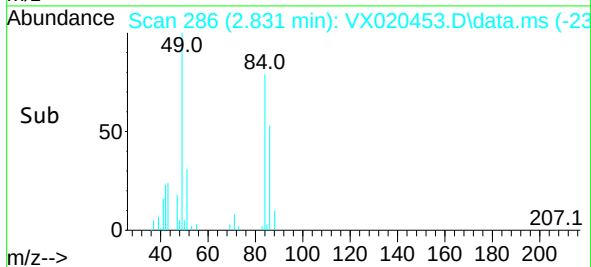
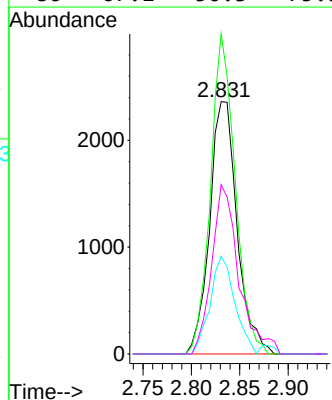
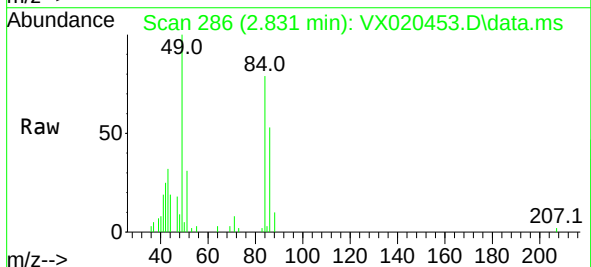
Instrument :
MSVOA_X
ClientSampled :

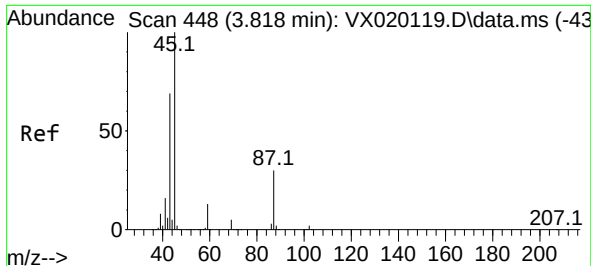
Tgt Ion: 43 Resp: 5849
Ion Ratio Lower Upper
43 100
74 0.0 21.9 32.9#



#20
Methylene Chloride
Concen: 1.42 ug/l
RT: 2.831 min Scan# 286
Delta R.T. -0.000 min
Lab File: VX020453.D
Acq: 30 Dec 2020 14:12

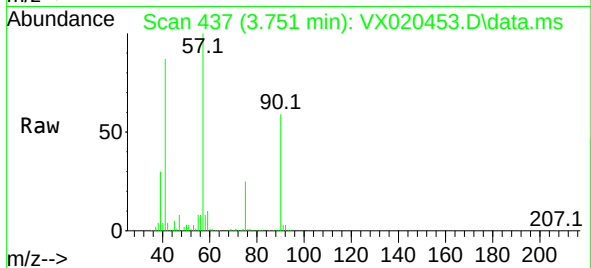
Tgt Ion: 84 Resp: 4674
Ion Ratio Lower Upper
84 100
49 126.8 88.6 132.8
51 38.7 27.0 40.6
86 67.1 50.3 75.5



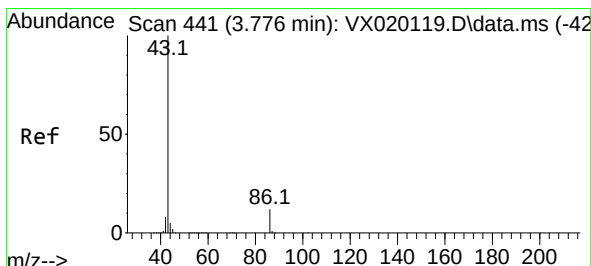
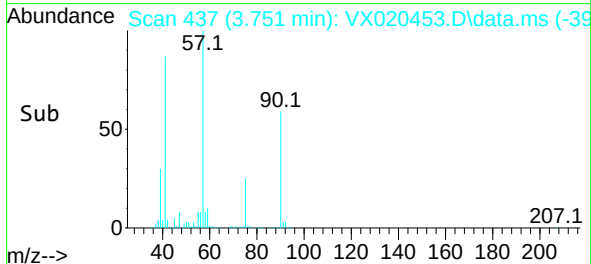
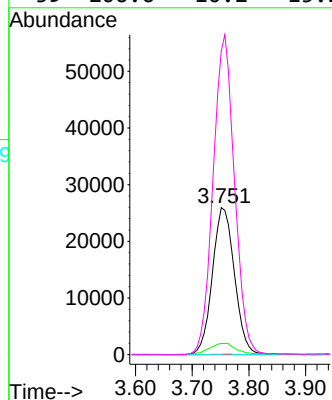


#22
Diisopropyl ether
Concen: 7.95 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.067 min
Lab File: VX020453.D
Acq: 30 Dec 2020 14:12

Instrument :
MSVOA_X
ClientSampled :

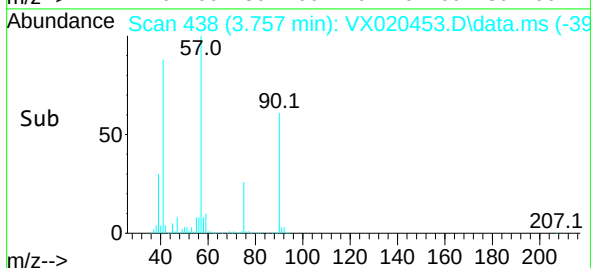
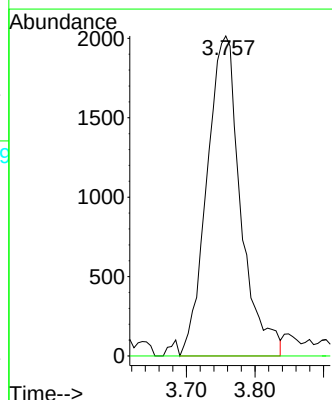
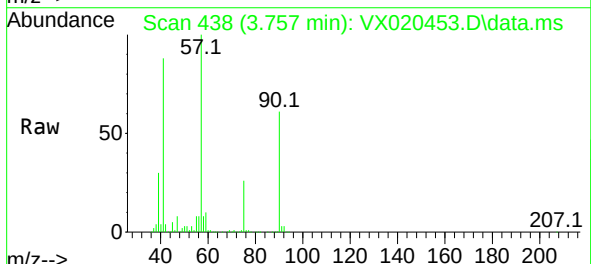


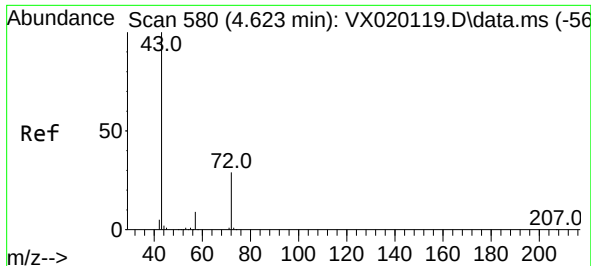
Tgt Ion: 45 Resp: 70192
Ion Ratio Lower Upper
45 100
43 7.3 58.0 87.0#
87 0.4 25.4 38.0#
59 206.6 10.2 15.2#



#23
Vinyl Acetate
Concen: 0.91 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.019 min
Lab File: VX020453.D
Acq: 30 Dec 2020 14:12

Tgt Ion: 43 Resp: 6874
Ion Ratio Lower Upper
43 100
86 0.0 9.9 14.9#

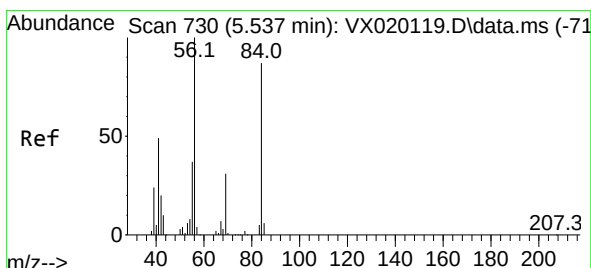
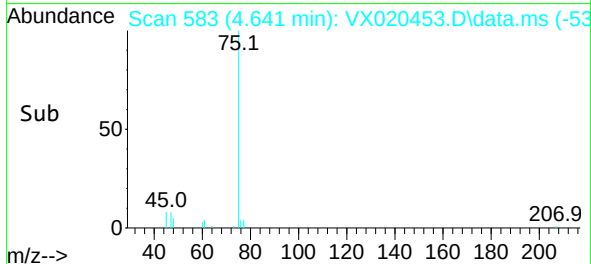
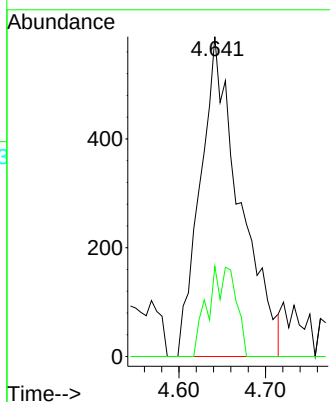
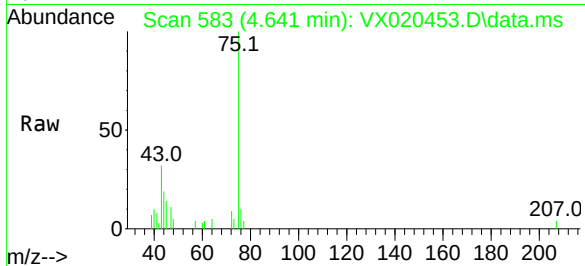




#25
2-Butanone
Concen: 0.88 ug/l
RT: 4.641 min Scan# 583
Delta R.T. 0.018 min
Lab File: VX020453.D
Acq: 30 Dec 2020 14:12

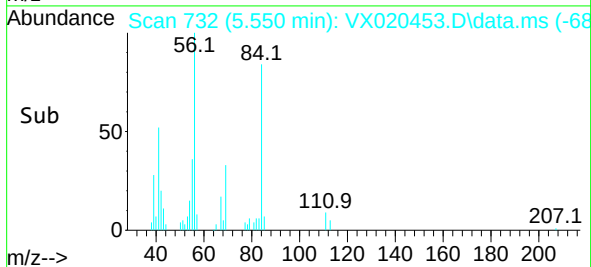
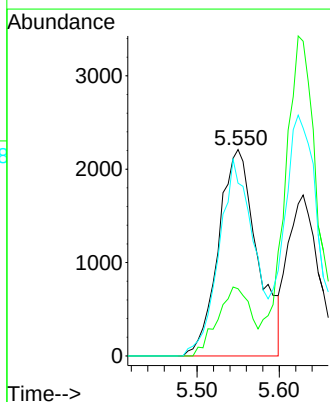
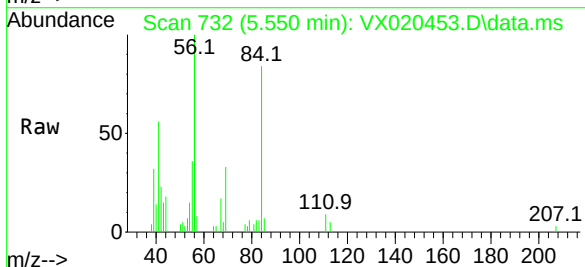
Instrument :
MSVOA_X
ClientSampled :

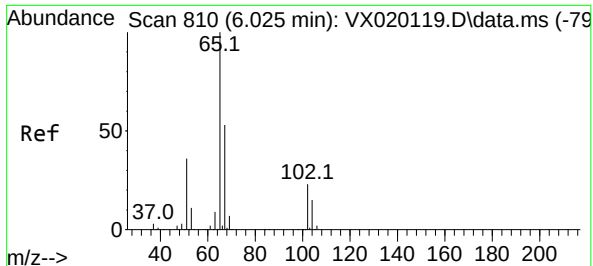
Tgt Ion: 43 Resp: 1866
Ion Ratio Lower Upper
43 100
72 28.2 23.7 35.5



#31
Cyclohexane
Concen: 1.65 ug/l
RT: 5.550 min Scan# 732
Delta R.T. 0.013 min
Lab File: VX020453.D
Acq: 30 Dec 2020 14:12

Tgt Ion: 56 Resp: 7251
Ion Ratio Lower Upper
56 100
69 32.5 25.3 37.9
84 83.7 71.4 107.0





#33

1,2-Dichloroethane-d4

Concen: 48.16 ug/l

RT: 6.031 min Scan# 811

Delta R.T. 0.006 min

Lab File: VX020453.D

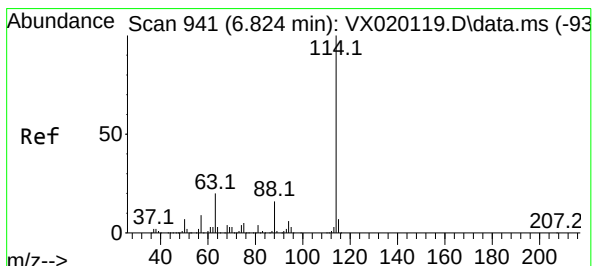
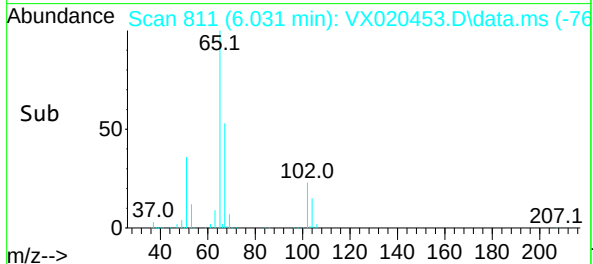
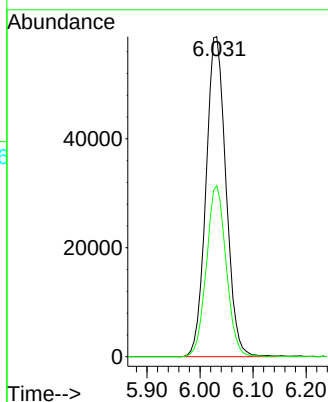
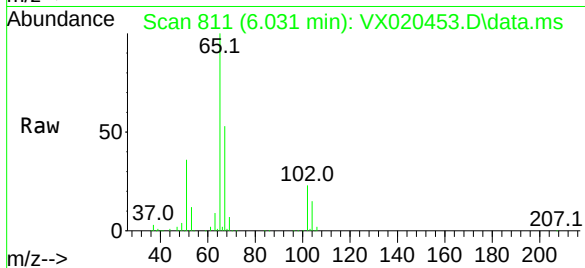
Acq: 30 Dec 2020 14:12

Tgt Ion: 65 Resp: 153937

Ion Ratio Lower Upper

65 100

67 52.7 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: VX020453.D

Acq: 30 Dec 2020 14:12

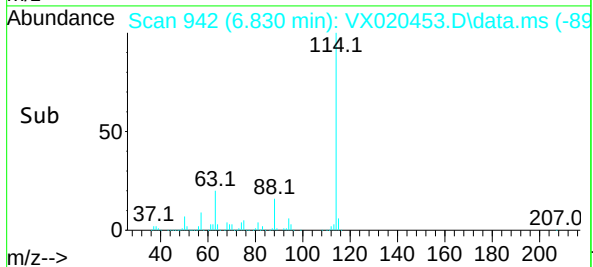
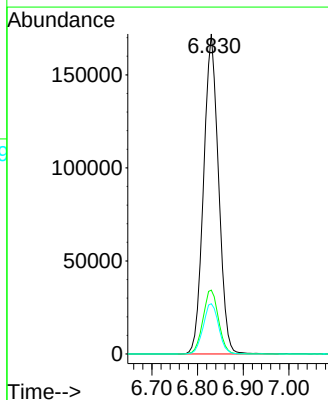
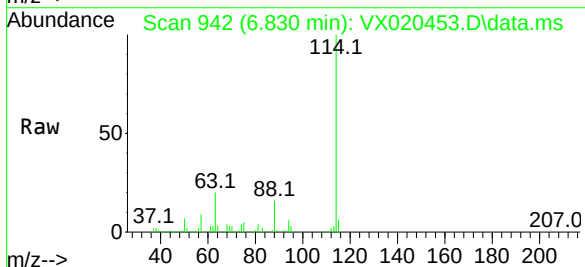
Tgt Ion: 114 Resp: 389421

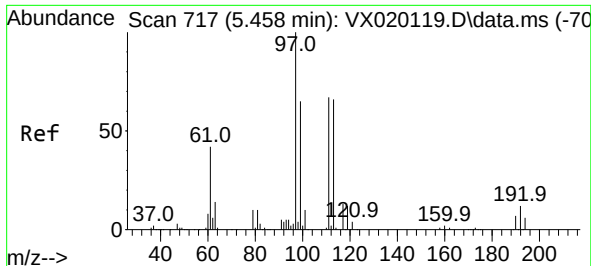
Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.8

88 15.7 0.0 32.8

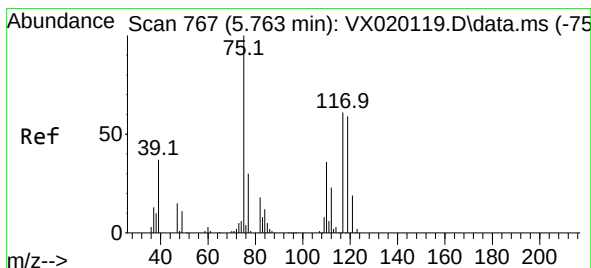
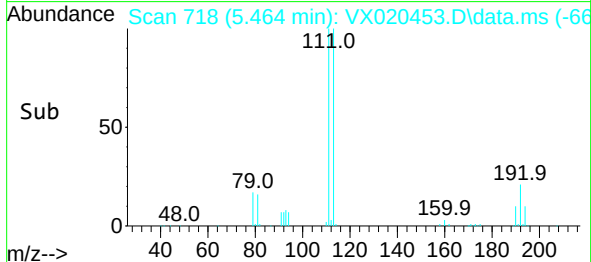
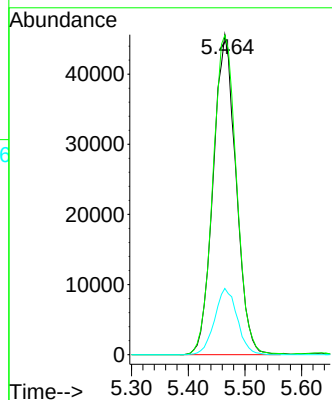
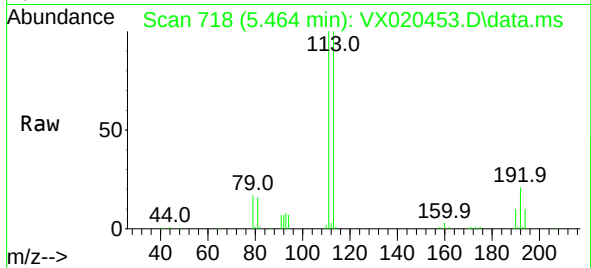




#35
Dibromofluoromethane
Concen: 51.30 ug/l
RT: 5.464 min Scan# 718
Delta R.T. 0.006 min
Lab File: VX020453.D
Acq: 30 Dec 2020 14:12

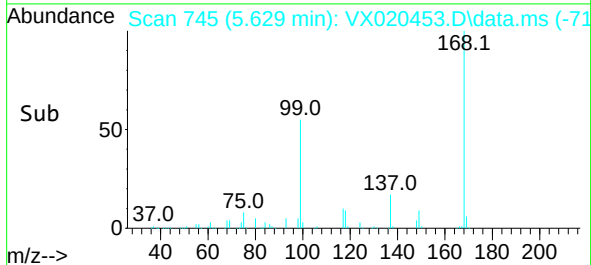
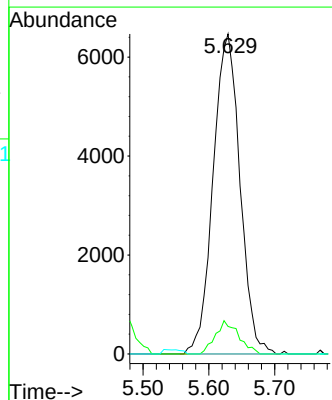
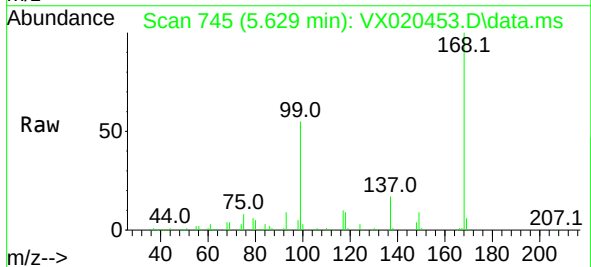
Instrument :
MSVOA_X
ClientSampled :

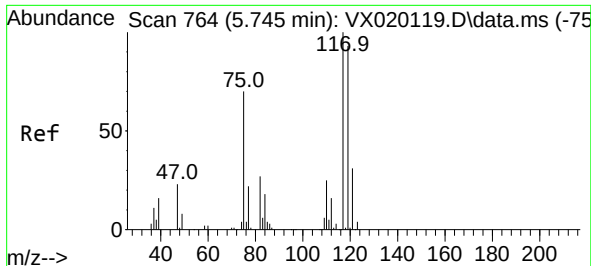
Tgt Ion:113 Resp: 127789
Ion Ratio Lower Upper
113 100
111 103.0 81.9 122.9
192 20.5 16.7 25.1



#36
1,1-Dichloropropene
Concen: 4.77 ug/l
RT: 5.629 min Scan# 745
Delta R.T. -0.134 min
Lab File: VX020453.D
Acq: 30 Dec 2020 14:12

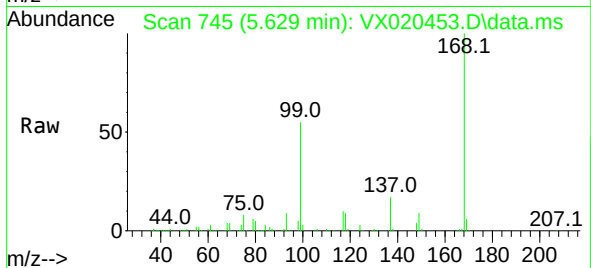
Tgt Ion: 75 Resp: 18355
Ion Ratio Lower Upper
75 100
110 9.0 18.1 54.4#
77 0.0 25.3 37.9#



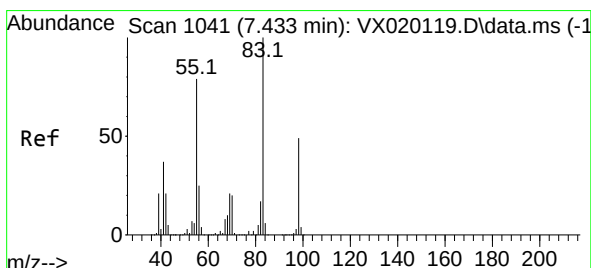
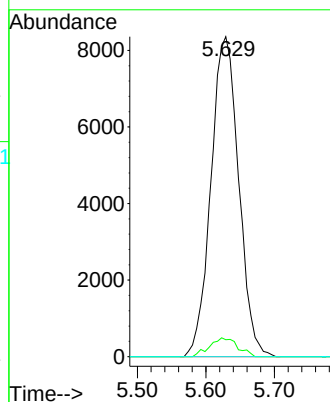
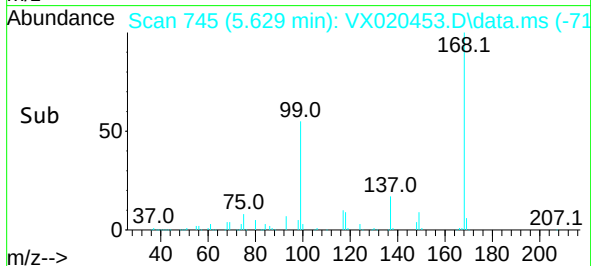


#38
Carbon Tetrachloride
Concen: 6.42 ug/l
RT: 5.629 min Scan# 745
Delta R.T. -0.116 min
Lab File: VX020453.D
Acq: 30 Dec 2020 14:12

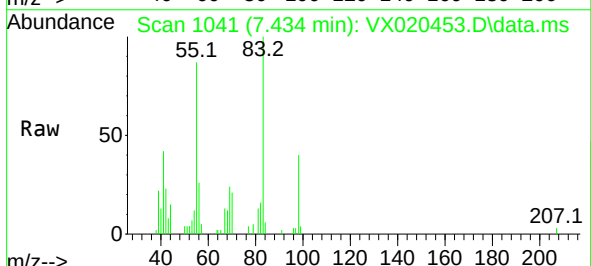
Instrument :
MSVOA_X
ClientSampleId :



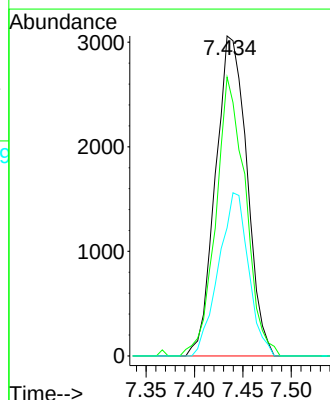
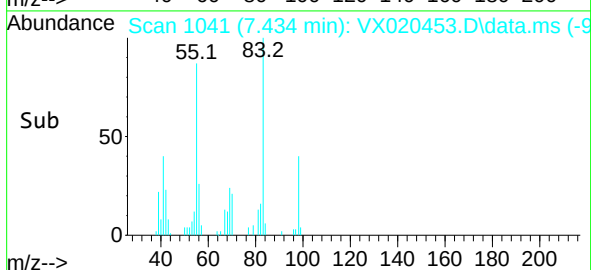
Tgt Ion:117 Resp: 23486
Ion Ratio Lower Upper
117 100
119 5.3 76.2 114.2#
121 0.0 24.8 37.2#

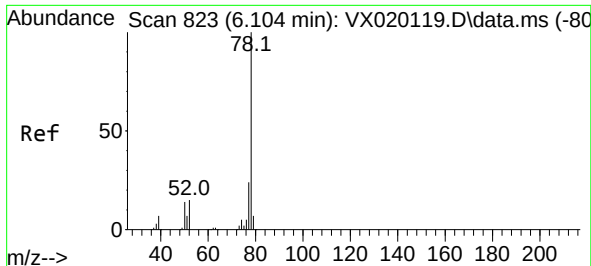


#39
Methylcyclohexane
Concen: 1.55 ug/l
RT: 7.434 min Scan# 1041
Delta R.T. 0.001 min
Lab File: VX020453.D
Acq: 30 Dec 2020 14:12



Tgt Ion: 83 Resp: 6904
Ion Ratio Lower Upper
83 100
55 87.2 58.9 88.3
98 40.0 38.1 57.1





#40

Benzene

Concen: 58.82 ug/l

RT: 6.111 min Scan# 824

Delta R.T. 0.007 min

Lab File: VX020453.D

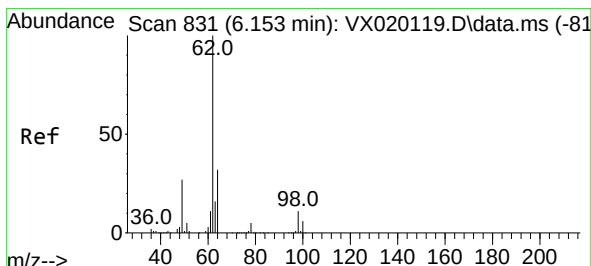
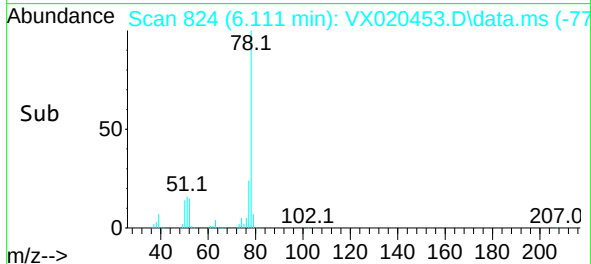
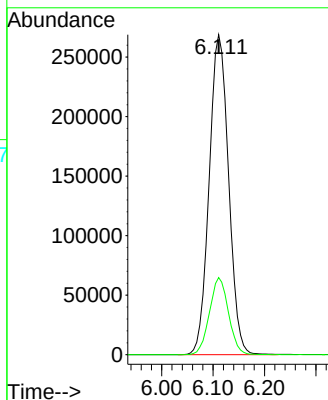
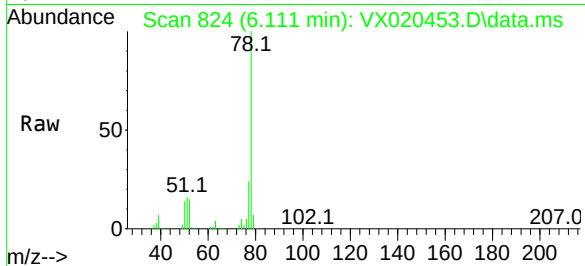
Acq: 30 Dec 2020 14:12

Tgt Ion: 78 Resp: 704671

Ion Ratio Lower Upper

78 100

77 24.1 18.9 28.3



#42

1,2-Dichloroethane

Concen: 1.51 ug/l

RT: 6.111 min Scan# 824

Delta R.T. -0.042 min

Lab File: VX020453.D

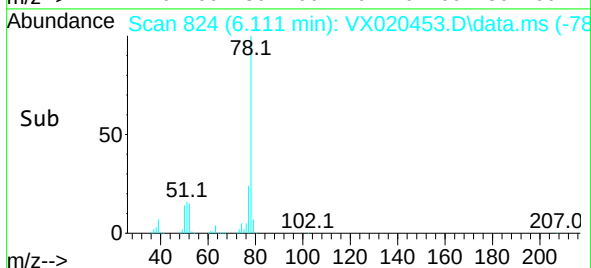
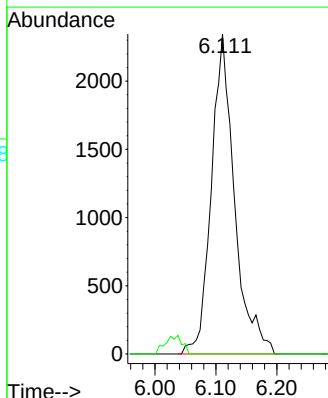
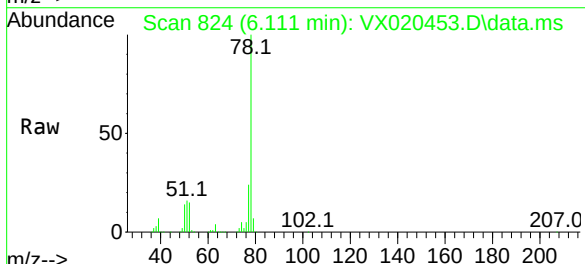
Acq: 30 Dec 2020 14:12

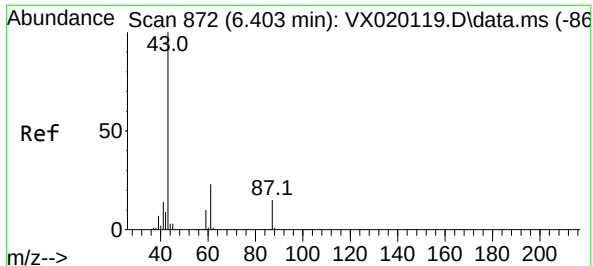
Tgt Ion: 62 Resp: 6196

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.2

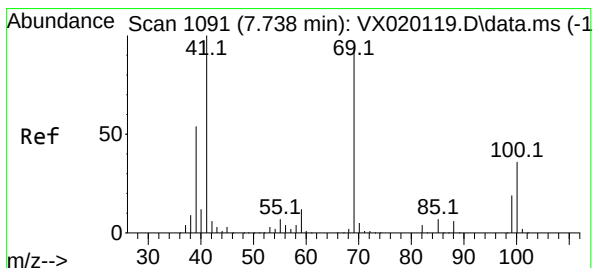
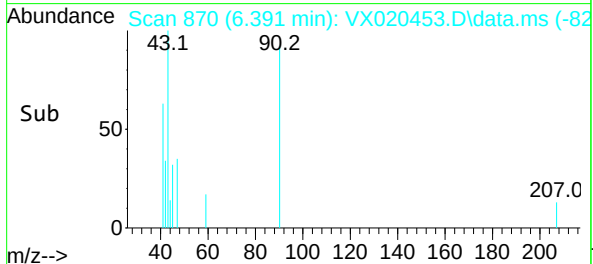
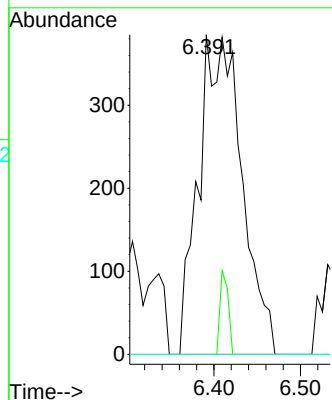
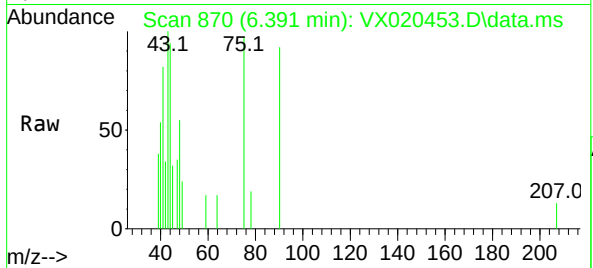




#43
Isopropyl Acetate
Concen: 0.21 ug/l
RT: 6.391 min Scan# 870
Delta R.T. -0.012 min
Lab File: VX020453.D
Acq: 30 Dec 2020 14:12

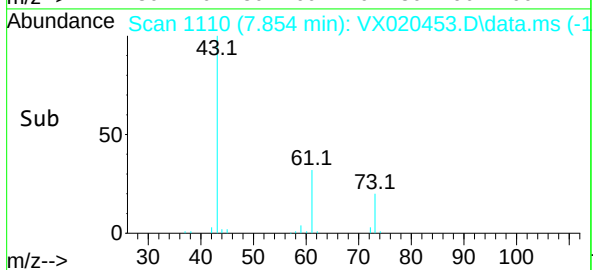
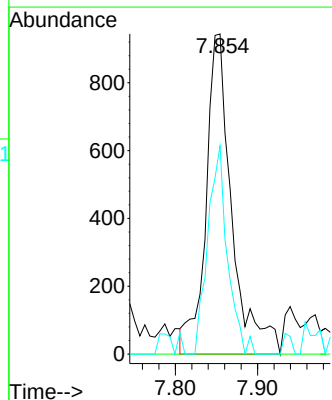
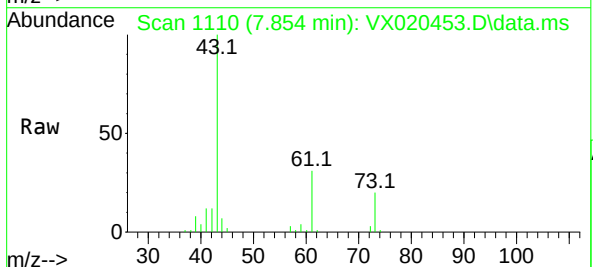
Instrument :
MSVOA_X
ClientSampleId :

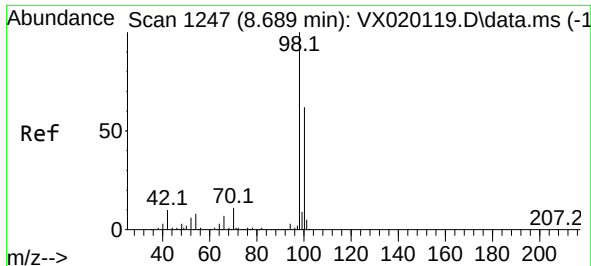
Tgt Ion: 43 Resp: 1334
Ion Ratio Lower Upper
43 100
61 4.9 18.2 27.4#
87 0.0 12.5 18.7#



#48
Methyl methacrylate
Concen: 0.67 ug/l
RT: 7.854 min Scan# 1110
Delta R.T. 0.116 min
Lab File: VX020453.D
Acq: 30 Dec 2020 14:12

Tgt Ion: 41 Resp: 2063
Ion Ratio Lower Upper
41 100
69 0.0 76.0 114.0#
39 49.4 44.6 67.0

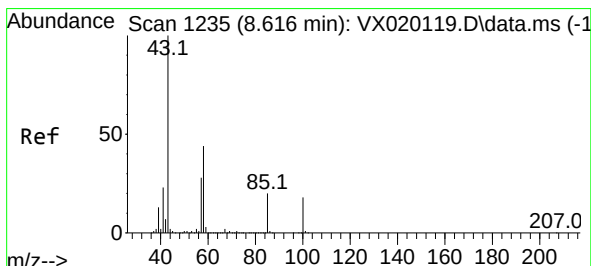
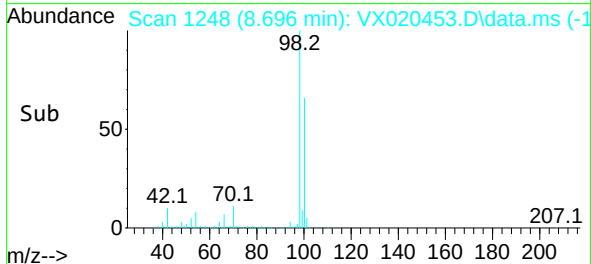
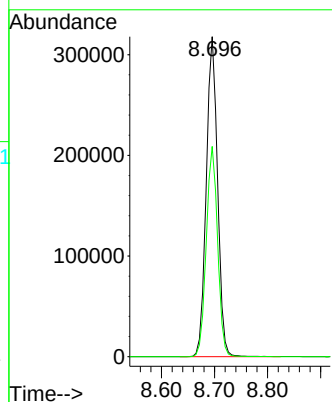
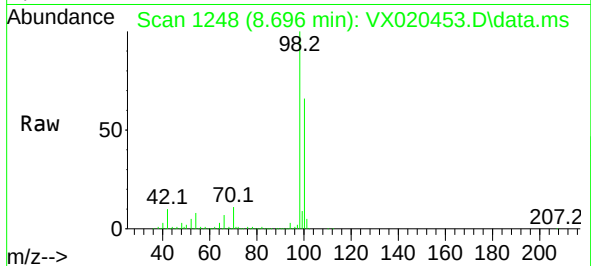




#50
Toluene-d8
Concen: 48.96 ug/l
RT: 8.696 min Scan# 1248
Delta R.T. 0.007 min
Lab File: VX020453.D
Acq: 30 Dec 2020 14:12

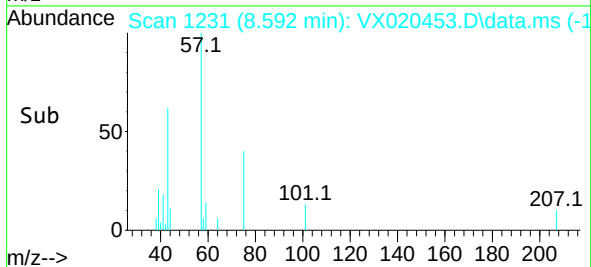
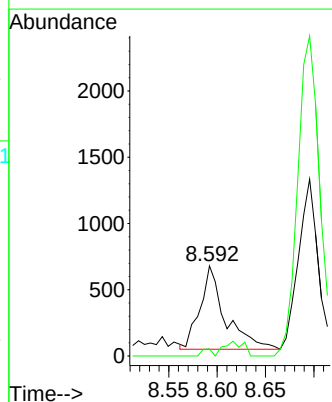
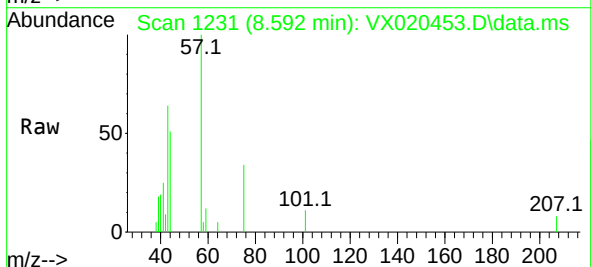
Instrument :
MSVOA_X
ClientSampled :

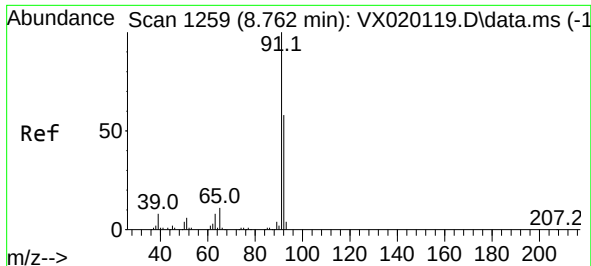
Tgt Ion: 98 Resp: 469521
Ion Ratio Lower Upper
98 100
100 65.9 51.9 77.9



#51
4-Methyl-2-Pentanone
Concen: 0.29 ug/l
RT: 8.592 min Scan# 1231
Delta R.T. -0.024 min
Lab File: VX020453.D
Acq: 30 Dec 2020 14:12

Tgt Ion: 43 Resp: 1141
Ion Ratio Lower Upper
43 100
58 0.0 35.4 53.0#

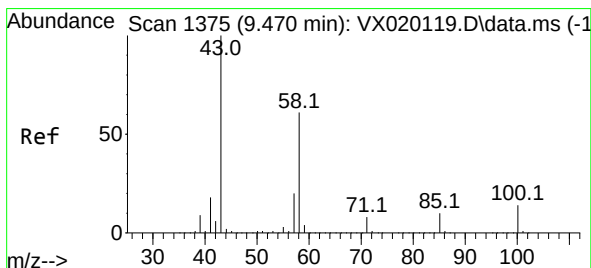
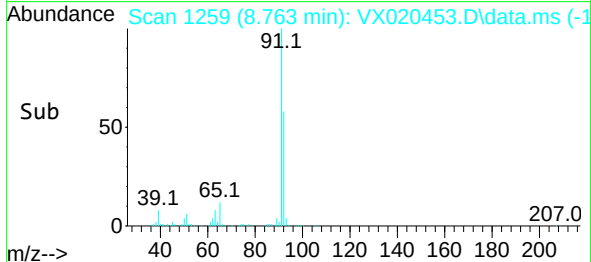
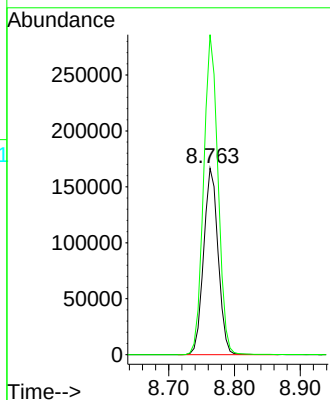
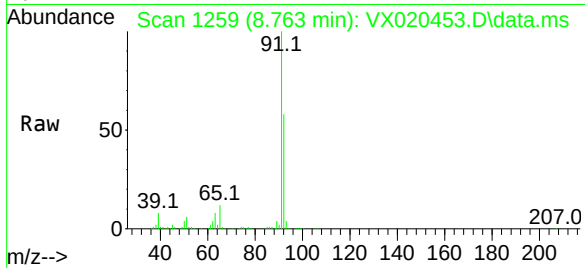




#52
Toluene
Concen: 34.88 ug/l
RT: 8.763 min Scan# 1259
Delta R.T. 0.001 min
Lab File: VX020453.D
Acq: 30 Dec 2020 14:12

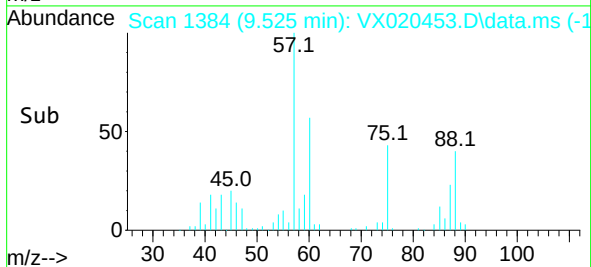
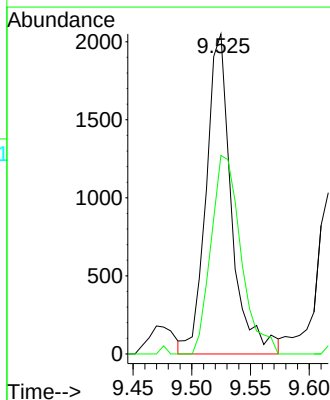
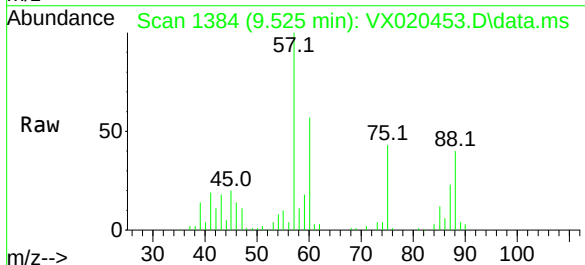
Instrument :
MSVOA_X
ClientSampled :

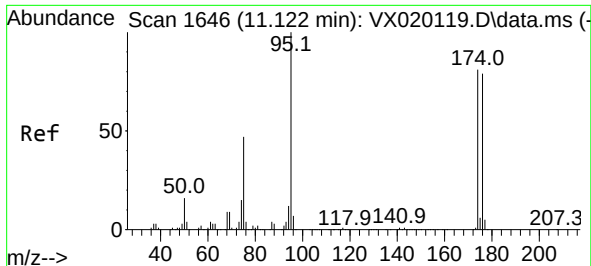
Tgt Ion: 92 Resp: 255031
Ion Ratio Lower Upper
92 100
91 170.9 137.1 205.7



#59
2-Hexanone
Concen: 1.03 ug/l
RT: 9.525 min Scan# 1384
Delta R.T. 0.055 min
Lab File: VX020453.D
Acq: 30 Dec 2020 14:12

Tgt Ion: 43 Resp: 3081
Ion Ratio Lower Upper
43 100
58 73.3 30.9 92.8

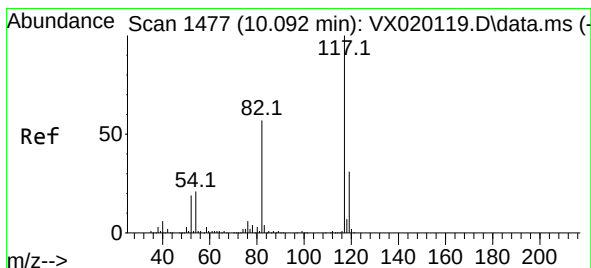
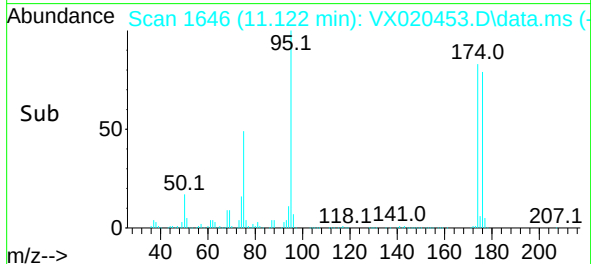
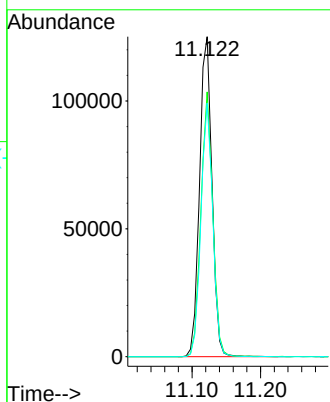
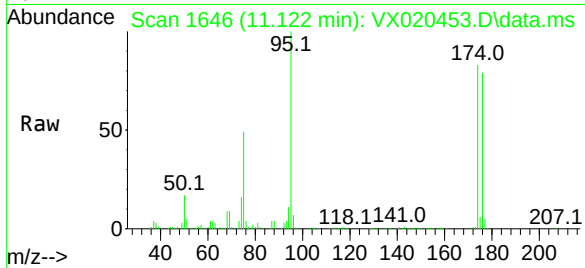




#62
4-Bromofluorobenzene
Concen: 43.02 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. 0.000 min
Lab File: VX020453.D
Acq: 30 Dec 2020 14:12

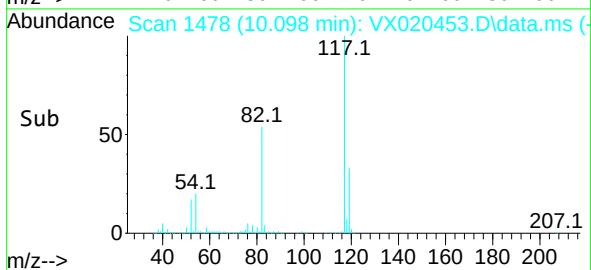
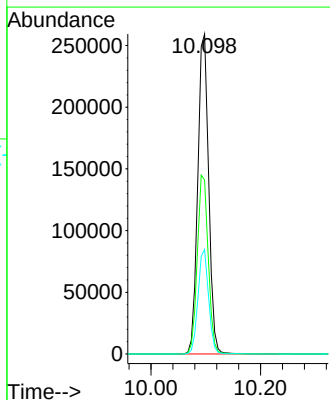
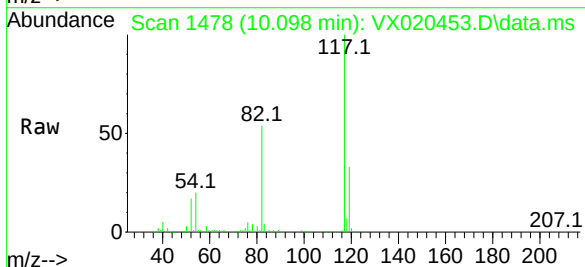
Instrument :
MSVOA_X
ClientSampleId :

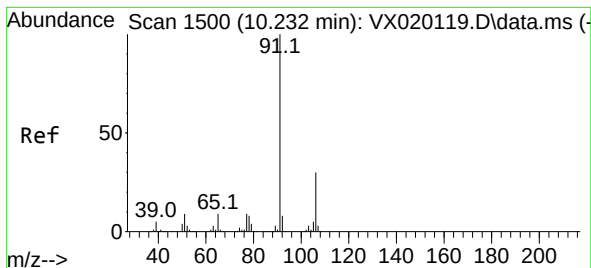
Tgt Ion: 95 Resp: 157868
Ion Ratio Lower Upper
95 100
174 79.4 0.0 154.6
176 75.7 0.0 155.8



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.098 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VX020453.D
Acq: 30 Dec 2020 14:12

Tgt Ion: 117 Resp: 359023
Ion Ratio Lower Upper
117 100
82 54.3 47.4 71.2
119 32.7 26.6 39.8

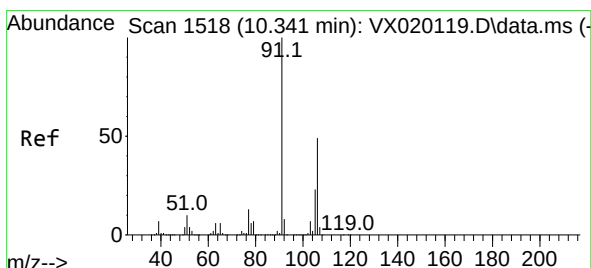
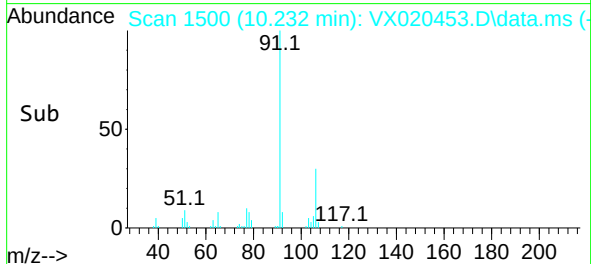
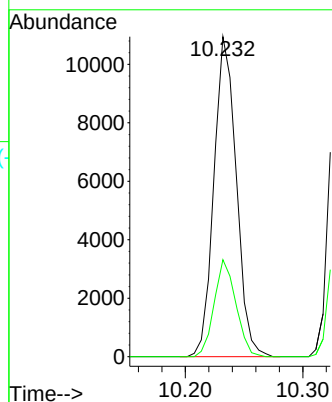
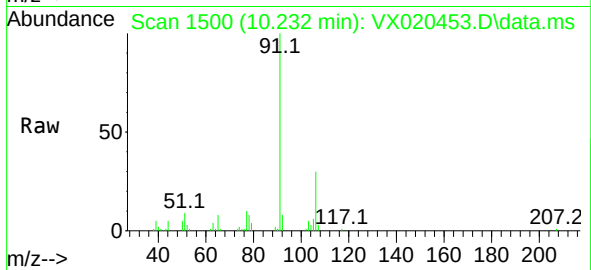




#67
Ethyl Benzene
Concen: 1.08 ug/l
RT: 10.232 min Scan# 1500
Delta R.T. -0.000 min
Lab File: VX020453.D
Acq: 30 Dec 2020 14:12

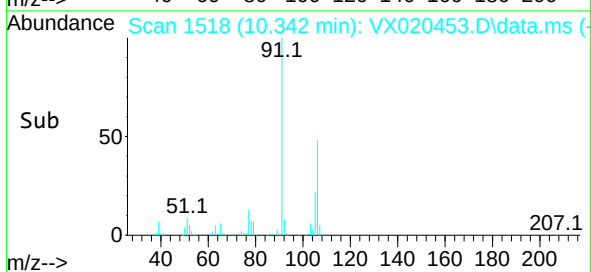
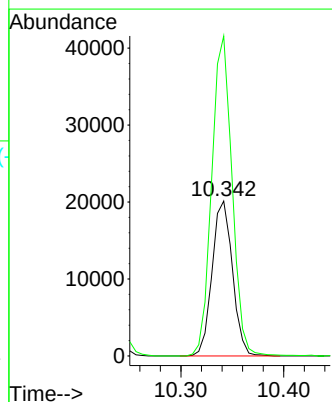
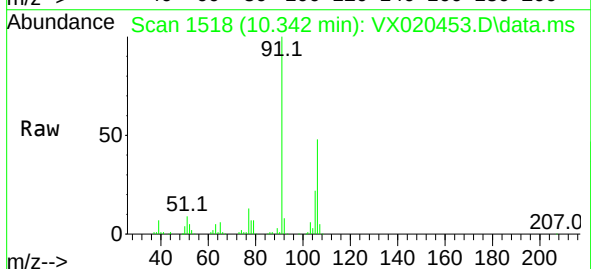
Instrument :
MSVOA_X
ClientSampled :

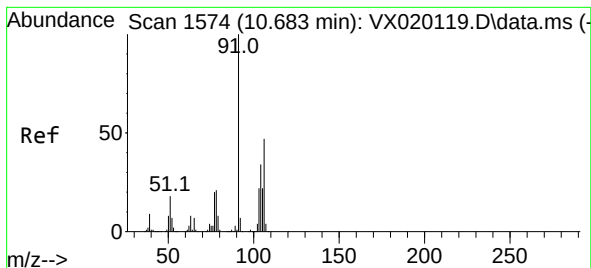
Tgt Ion: 91 Resp: 14507
Ion Ratio Lower Upper
91 100
106 30.3 24.6 37.0



#68
m/p-Xylenes
Concen: 5.50 ug/l
RT: 10.342 min Scan# 1518
Delta R.T. 0.001 min
Lab File: VX020453.D
Acq: 30 Dec 2020 14:12

Tgt Ion: 106 Resp: 27660
Ion Ratio Lower Upper
106 100
91 206.9 162.8 244.2

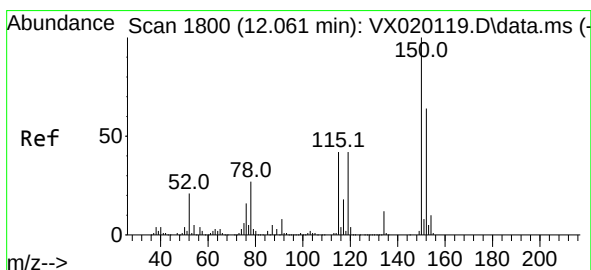
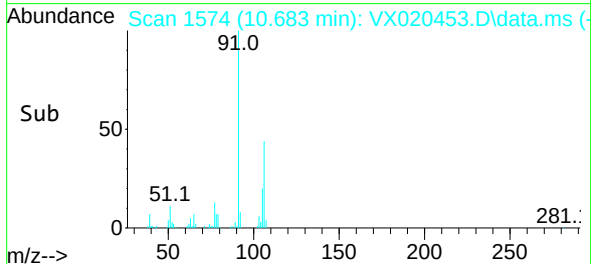
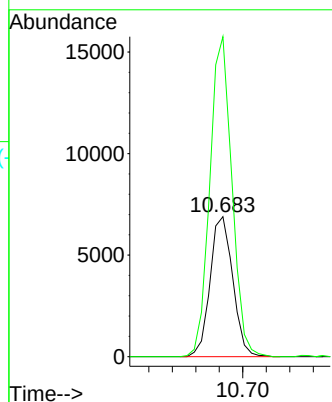
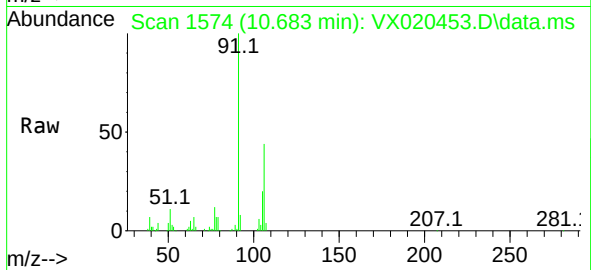




#69
o-Xylene
Concen: 1.91 ug/l
RT: 10.683 min Scan# 1574
Delta R.T. 0.000 min
Lab File: VX020453.D
Acq: 30 Dec 2020 14:12

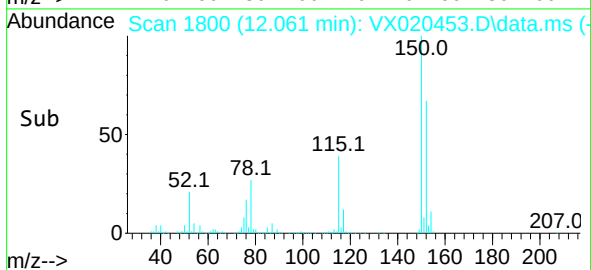
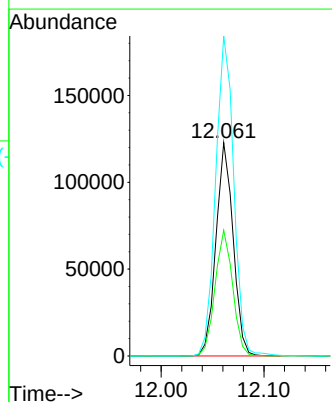
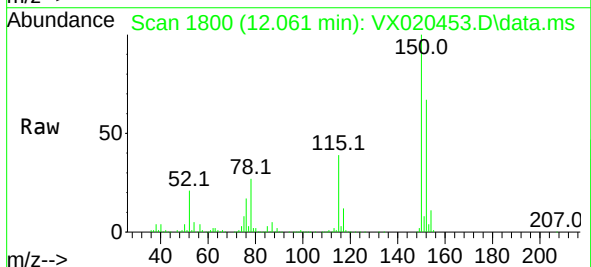
Instrument :
MSVOA_X
ClientSampled :

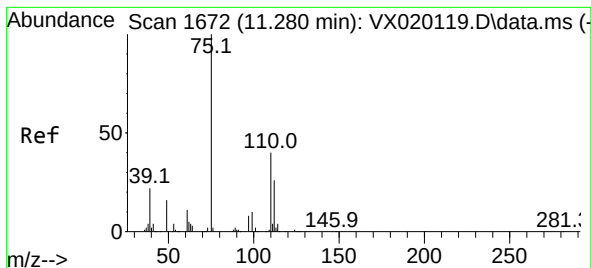
Tgt Ion:106 Resp: 9245
Ion Ratio Lower Upper
106 100
91 222.8 108.1 324.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.061 min Scan# 1800
Delta R.T. -0.000 min
Lab File: VX020453.D
Acq: 30 Dec 2020 14:12

Tgt Ion:152 Resp: 142321
Ion Ratio Lower Upper
152 100
115 60.5 41.1 123.3
150 158.2 0.0 349.0

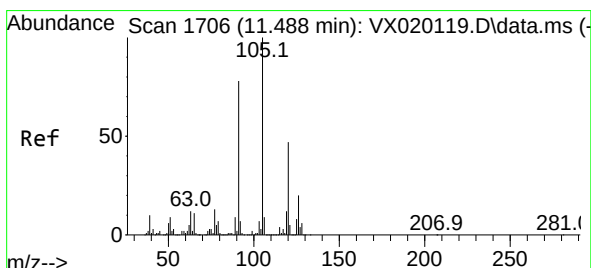
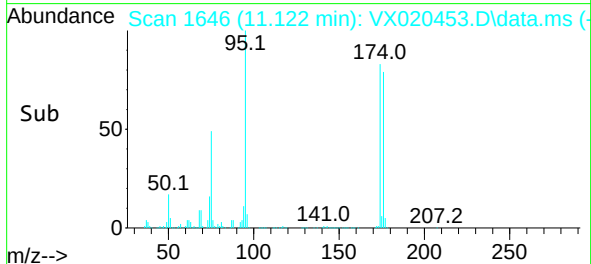
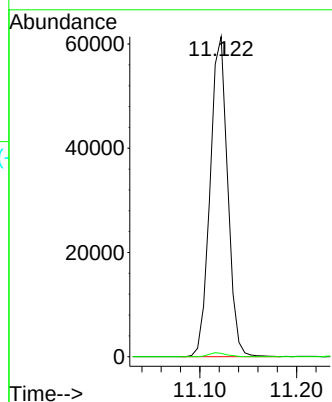
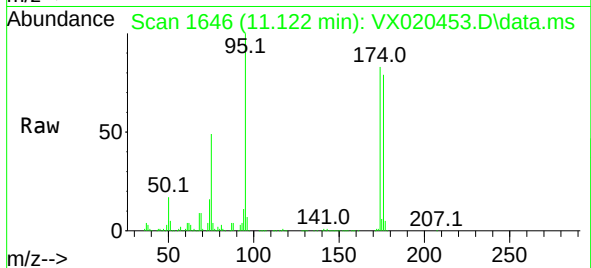




#76
1,2,3-Trichloropropane
Concen: 22.04 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. -0.158 min
Lab File: VX020453.D
Acq: 30 Dec 2020 14:12

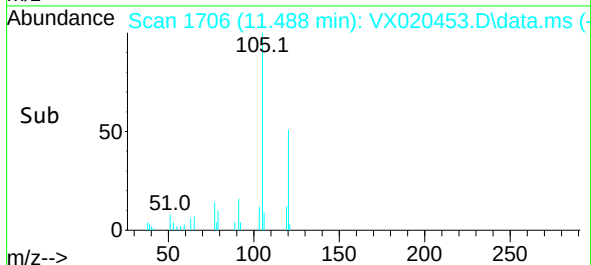
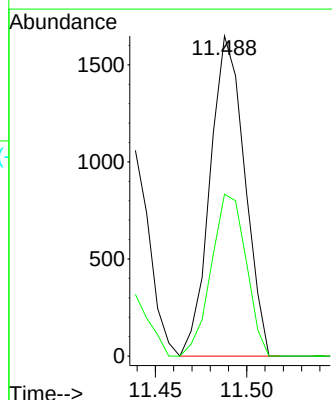
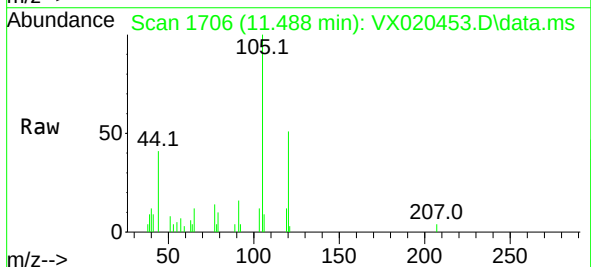
Instrument :
MSVOA_X
ClientSampled :

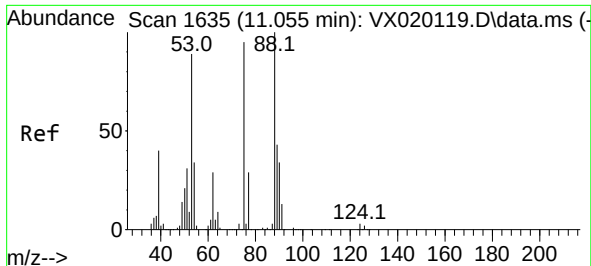
Tgt Ion: 75 Resp: 77274
Ion Ratio Lower Upper
75 100
77 1.3 19.1 57.5#



#80
1,3,5-Trimethylbenzene
Concen: 0.25 ug/l
RT: 11.488 min Scan# 1706
Delta R.T. -0.000 min
Lab File: VX020453.D
Acq: 30 Dec 2020 14:12

Tgt Ion: 105 Resp: 2169
Ion Ratio Lower Upper
105 100
120 50.9 23.8 71.5

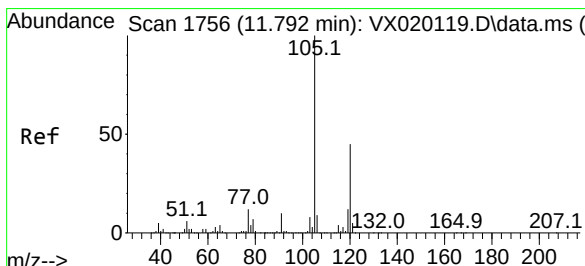
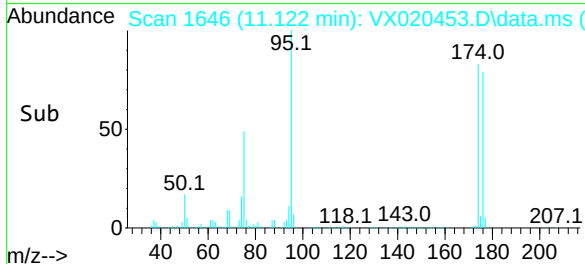
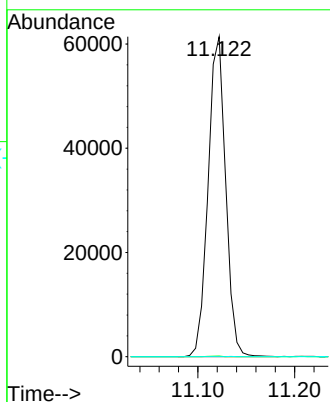
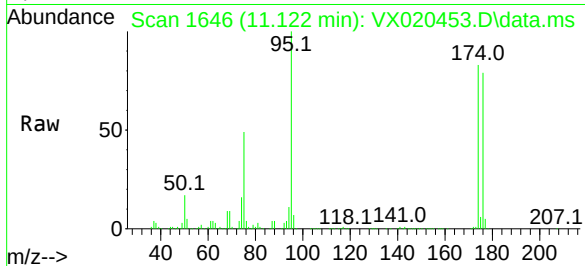




#81
trans-1,4-Dichloro-2-butene
Concen: 65.39 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. 0.067 min
Lab File: VX020453.D
Acq: 30 Dec 2020 14:12

Instrument :
MSVOA_X
ClientSampleId :

Tgt Ion: 75 Resp: 77274
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: 0.44 ug/l
RT: 11.793 min Scan# 1756
Delta R.T. 0.001 min
Lab File: VX020453.D
Acq: 30 Dec 2020 14:12

Tgt Ion: 105 Resp: 3856
Ion Ratio Lower Upper
105 100
120 45.6 22.4 67.3

