

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122120\
 Data File : VX020260.D
 Acq On : 21 Dec 2020 19:09
 Operator : JC/MD
 Sample : L5053-21
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 22 01:36:34 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)

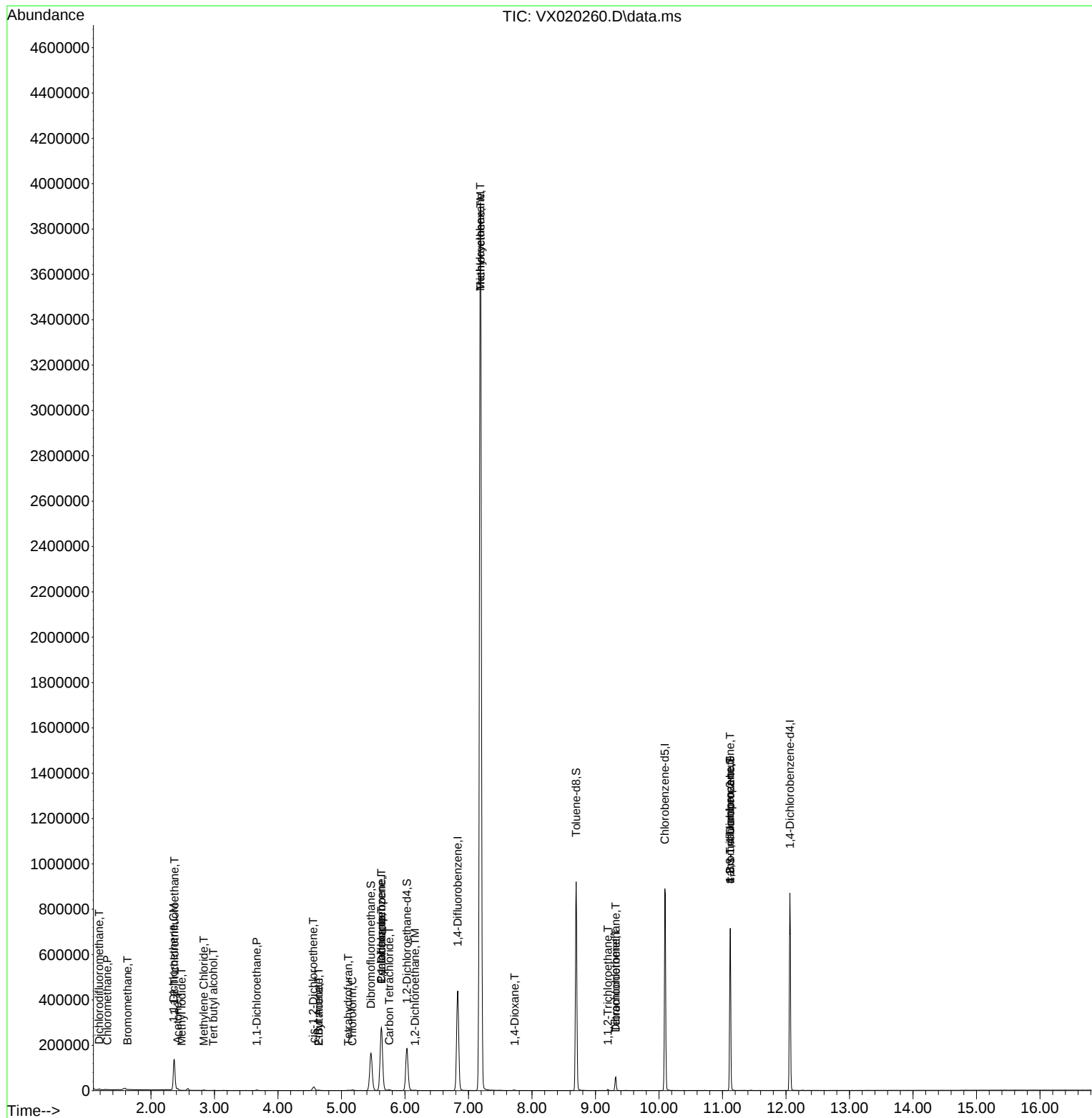
Internal Standards						
1) Pentafluorobenzene	5.629	168	264820	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.830	114	446743	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.092	117	410109	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.061	152	177016	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.032	65	177591	50.03	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery	=	100.06%	
35) Dibromofluoromethane	5.465	113	143739	50.30	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery	=	100.60%	
50) Toluene-d8	8.696	98	545588	49.60	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery	=	99.20%	
62) 4-Bromofluorobenzene	11.122	95	191742	45.54	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery	=	91.08%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.185	85	922	0.32	ug/l	93
3) Chloromethane	1.313	50	1100	0.33	ug/l	97
5) Bromomethane	1.630	94	395	0.34	ug/l	87
9) 1,1,2-Trichlorotrifluo...	2.368	101	52146	19.72	ug/l	95
10) Methyl Iodide	2.483	142	19	3.29	ug/l #	42
11) Tert butyl alcohol	2.983	59	216	0.27	ug/l #	73
12) 1,1-Dichloroethene	2.355	96	5121	1.89	ug/l	98
16) Acetone	2.416	43	6242	3.86	ug/l	98
20) Methylene Chloride	2.831	84	866	0.24	ug/l #	81
24) 1,1-Dichloroethane	3.666	63	2682	0.46	ug/l #	88
25) 2-Butanone	4.641	43	2443	1.04	ug/l	97
27) cis-1,2-Dichloroethene	4.556	96	10404	2.81	ug/l	90
29) Tetrahydrofuran	5.105	42	715	0.48	ug/l #	90
30) Chloroform	5.172	83	3139	0.53	ug/l	95
31) Cyclohexane	5.629	56	5277	1.08	ug/l #	1
36) 1,1-Dichloropropene	5.629	75	20494	4.64	ug/l #	48
37) Ethyl Acetate	4.641	43	2443	0.53	ug/l #	64
38) Carbon Tetrachloride	5.751	117	2466	0.59	ug/l	91
39) Methylcyclohexane	7.184	83	18864	3.70	ug/l #	1
42) 1,2-Dichloroethane	6.160	62	1030	0.22	ug/l	83
44) Trichloroethene	7.190	130	1544906	434.85	ug/l	95
49) 1,4-Dioxane	7.726	88	1580	19.01	ug/l #	93
55) 1,1,2-Trichloroethane	9.196	97	1156	0.33	ug/l	93
60) Dibromochloromethane	9.317	129	10908	3.18	ug/l #	11
64) Tetrachloroethene	9.317	164	11972	3.87	ug/l	95
76) 1,2,3-Trichloropropane	11.122	75	93795	21.51	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.122	75	93795	63.82	ug/l #	12

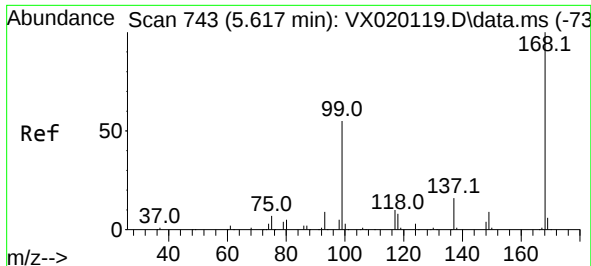
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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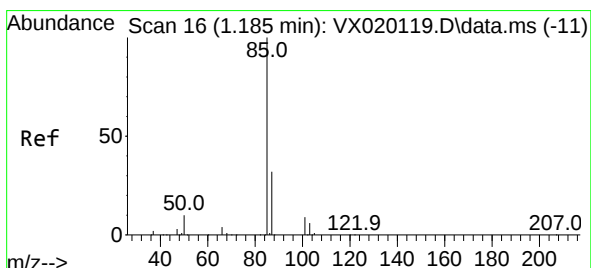
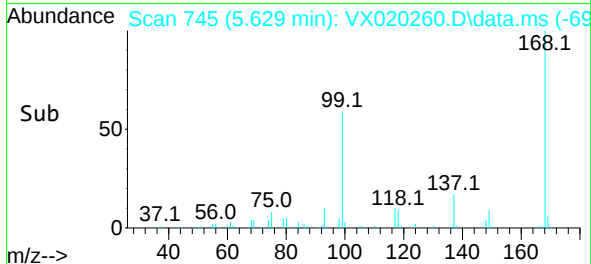
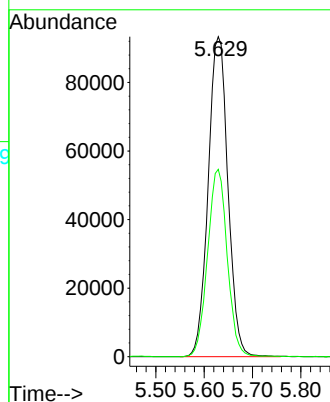
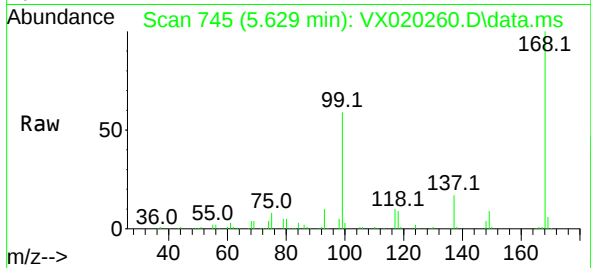




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 745
Delta R.T. 0.012 min
Lab File: VX020260.D
Acq: 21 Dec 2020 19:09

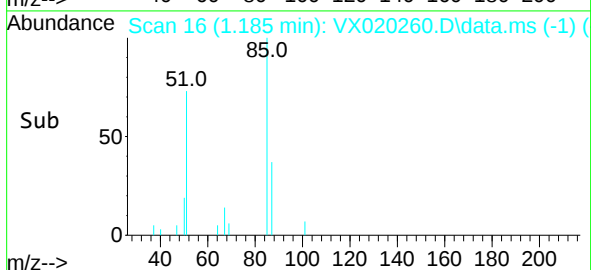
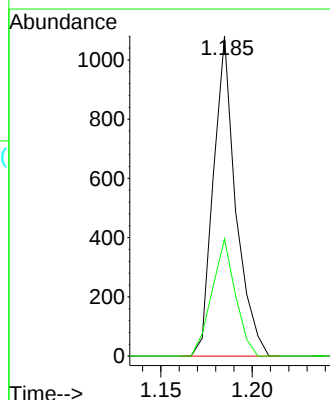
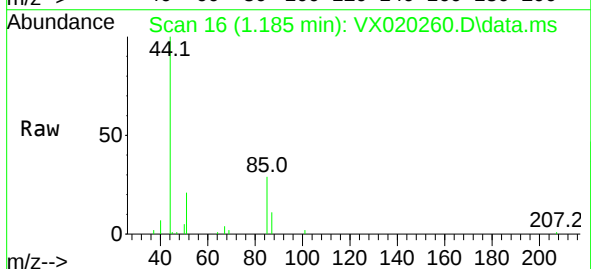
Instrument :
MSVOA_X
ClientSampled :

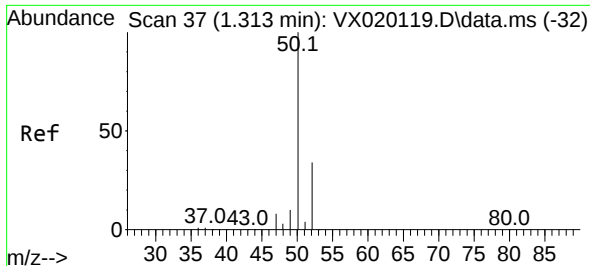
Tgt Ion:168 Resp: 264820
Ion Ratio Lower Upper
168 100
99 58.6 45.8 68.6



#2
Dichlorodifluoromethane
Concen: 0.32 ug/l
RT: 1.185 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX020260.D
Acq: 21 Dec 2020 19:09

Tgt Ion: 85 Resp: 922
Ion Ratio Lower Upper
85 100
87 36.6 16.4 49.2

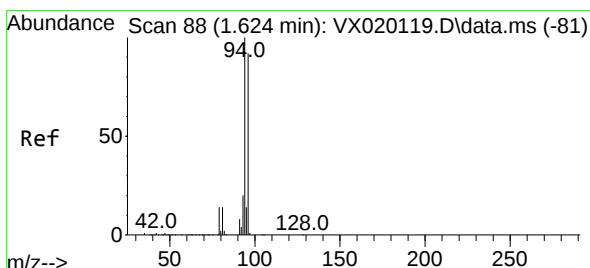
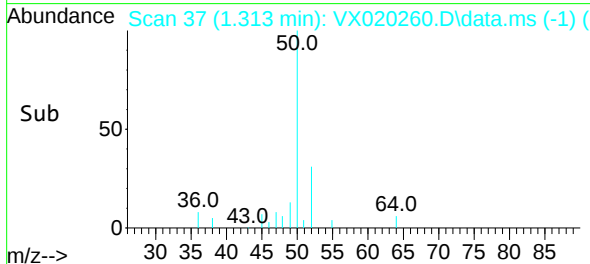
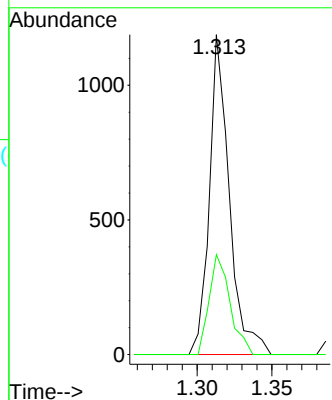
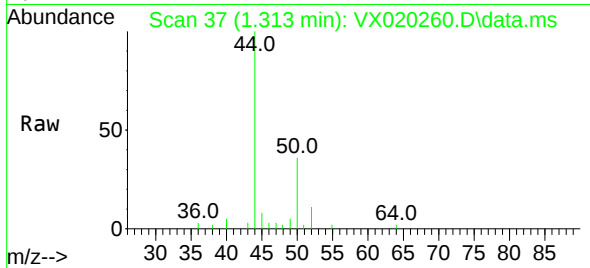




#3
Chloromethane
Concen: 0.33 ug/l
RT: 1.313 min Scan# 37
Delta R.T. -0.000 min
Lab File: VX020260.D
Acq: 21 Dec 2020 19:09

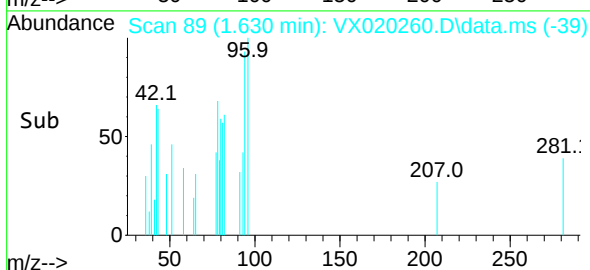
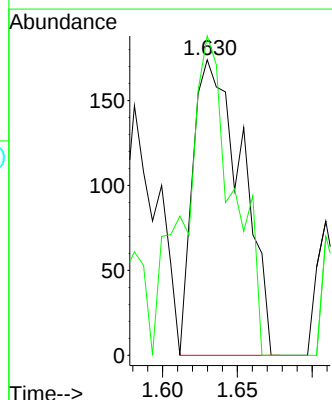
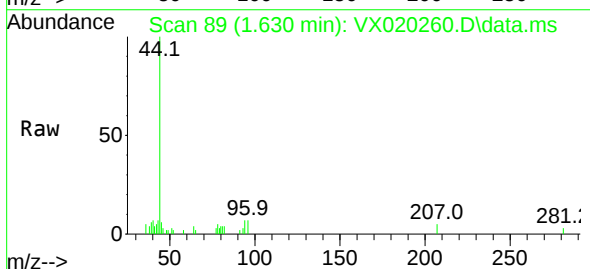
Instrument :
MSVOA_X
ClientSampled :

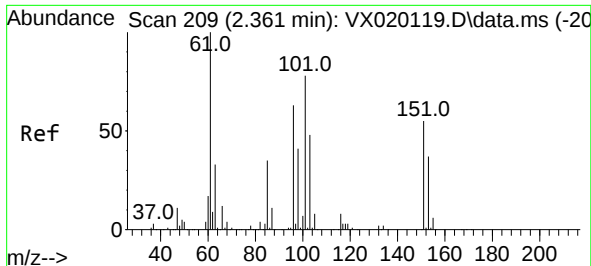
Tgt Ion: 50 Resp: 1100
Ion Ratio Lower Upper
50 100
52 31.2 26.4 39.6



#5
Bromomethane
Concen: 0.34 ug/l
RT: 1.630 min Scan# 89
Delta R.T. 0.006 min
Lab File: VX020260.D
Acq: 21 Dec 2020 19:09

Tgt Ion: 94 Resp: 395
Ion Ratio Lower Upper
94 100
96 108.0 76.4 114.6

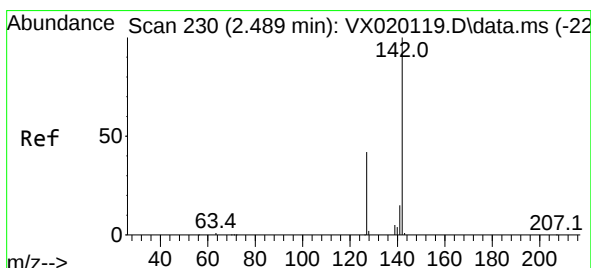
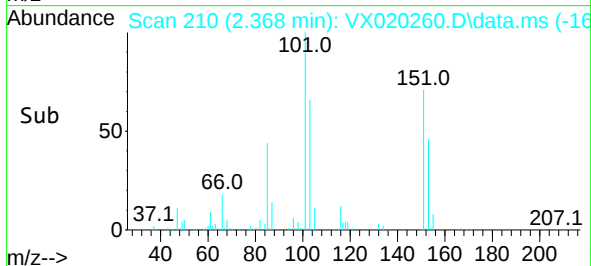
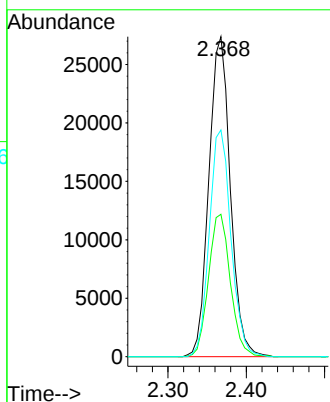
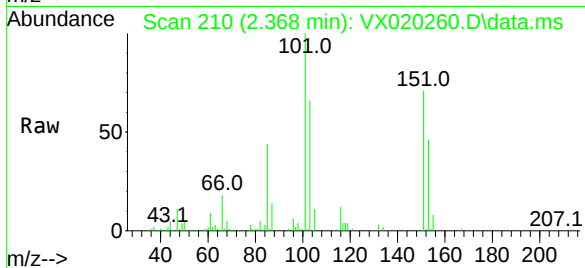




#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.72 ug/l
RT: 2.368 min Scan# 210
Delta R.T. 0.007 min
Lab File: VX020260.D
Acq: 21 Dec 2020 19:09

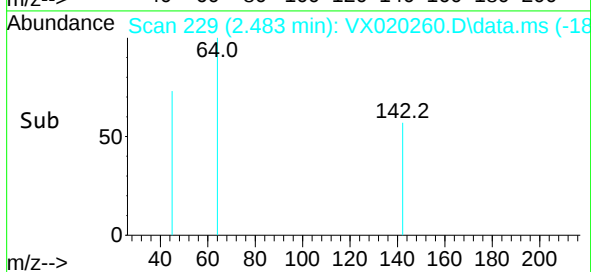
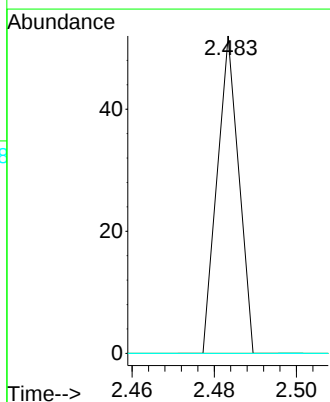
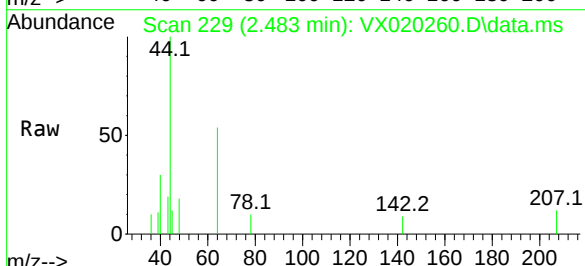
Instrument :
MSVOA_X
ClientSampled :

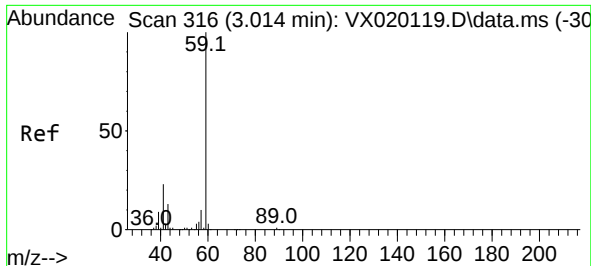
Tgt Ion:101 Resp: 52146
Ion Ratio Lower Upper
101 100
85 45.3 34.9 52.3
151 71.6 61.4 92.2



#10
Methyl Iodide
Concen: 3.29 ug/l
RT: 2.483 min Scan# 229
Delta R.T. -0.006 min
Lab File: VX020260.D
Acq: 21 Dec 2020 19:09

Tgt Ion:142 Resp: 19
Ion Ratio Lower Upper
142 100
127 0.0 33.3 49.9#
141 0.0 11.4 17.0#



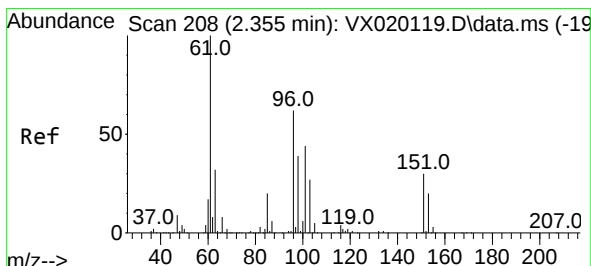
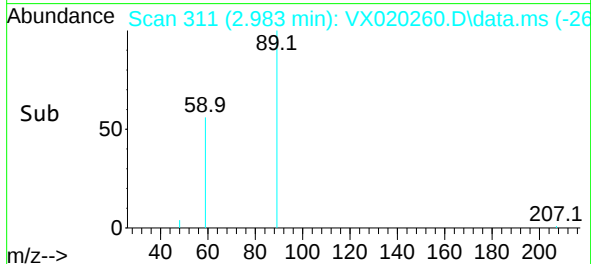
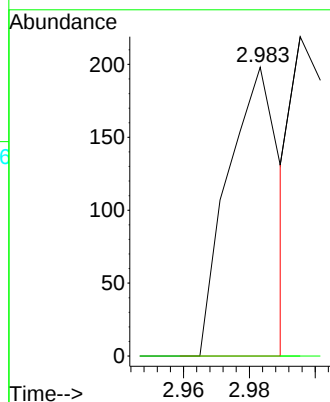
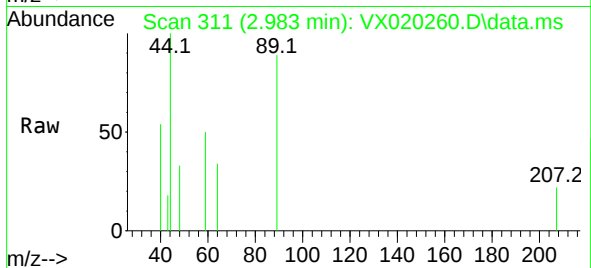


#11

Tert butyl alcohol
Concen: 0.27 ug/l
RT: 2.983 min Scan# 311
Delta R.T. -0.031 min
Lab File: VX020260.D
Acq: 21 Dec 2020 19:09

Instrument :
MSVOA_X
ClientSampled :

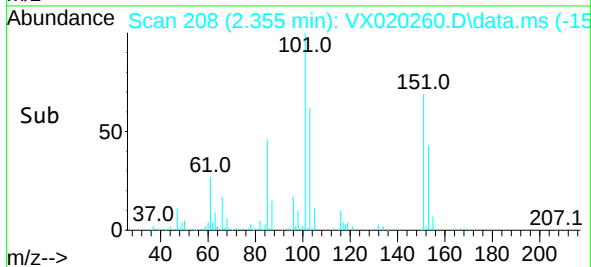
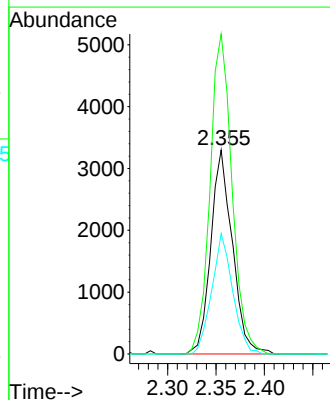
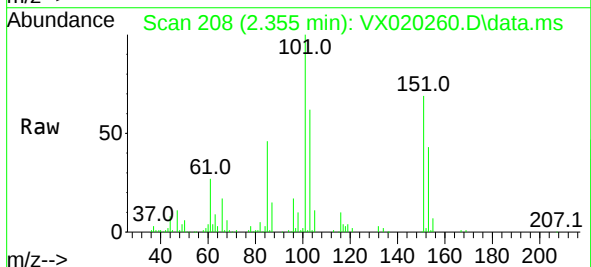
Tgt Ion: 59 Resp: 216
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#

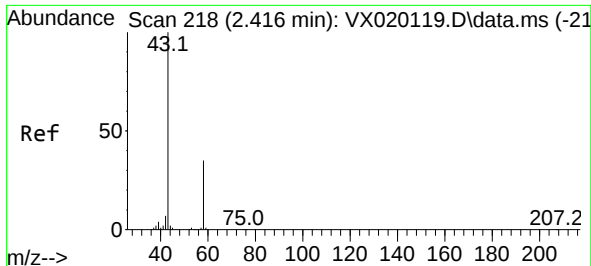


#12

1,1-Dichloroethene
Concen: 1.89 ug/l
RT: 2.355 min Scan# 208
Delta R.T. 0.000 min
Lab File: VX020260.D
Acq: 21 Dec 2020 19:09

Tgt Ion: 96 Resp: 5121
Ion Ratio Lower Upper
96 100
61 156.9 124.6 187.0
98 59.0 50.6 76.0

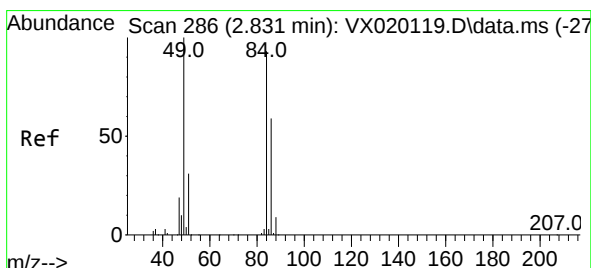
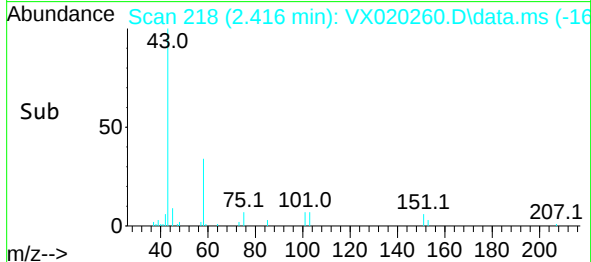
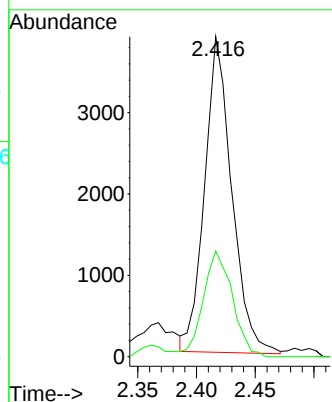
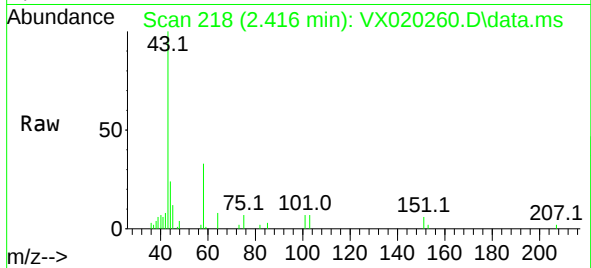




#16
Acetone
Concen: 3.86 ug/l
RT: 2.416 min Scan# 218
Delta R.T. 0.000 min
Lab File: VX020260.D
Acq: 21 Dec 2020 19:09

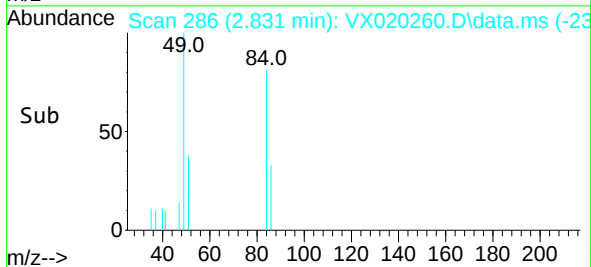
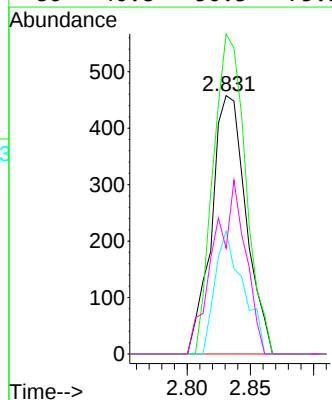
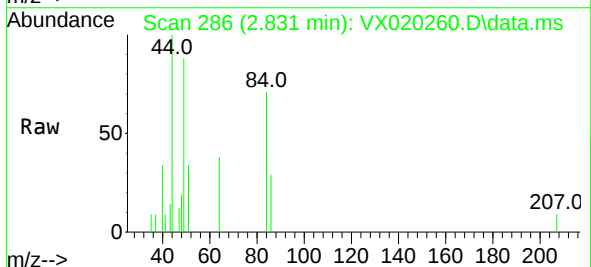
Instrument :
MSVOA_X
ClientSampled :

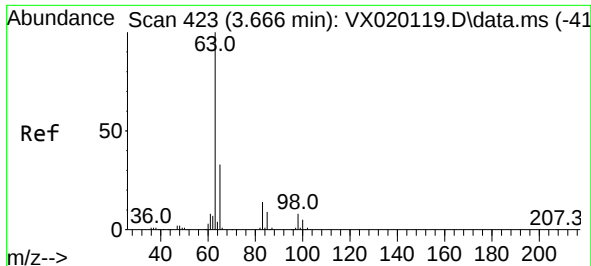
Tgt Ion: 43 Resp: 6242
Ion Ratio Lower Upper
43 100
58 33.6 27.8 41.8



#20
Methylene Chloride
Concen: 0.24 ug/l
RT: 2.831 min Scan# 286
Delta R.T. -0.000 min
Lab File: VX020260.D
Acq: 21 Dec 2020 19:09

Tgt Ion: 84 Resp: 866
Ion Ratio Lower Upper
84 100
49 123.8 88.6 132.8
51 47.6 27.0 40.6#
86 40.8 50.3 75.5#

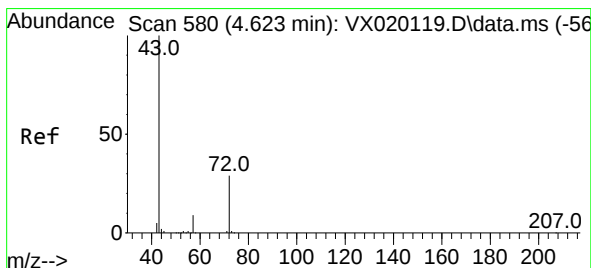
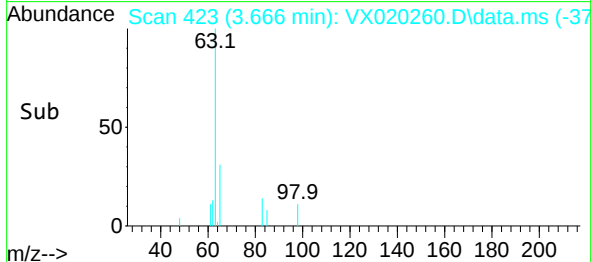
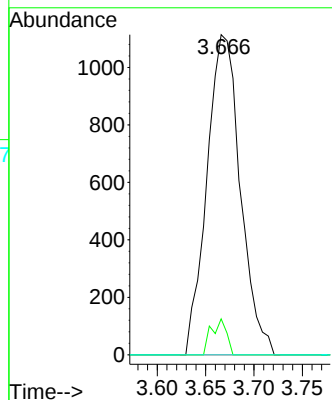
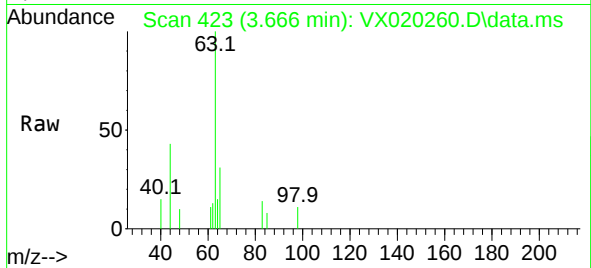




#24
1,1-Dichloroethane
Concen: 0.46 ug/l
RT: 3.666 min Scan# 423
Delta R.T. 0.000 min
Lab File: VX020260.D
Acq: 21 Dec 2020 19:09

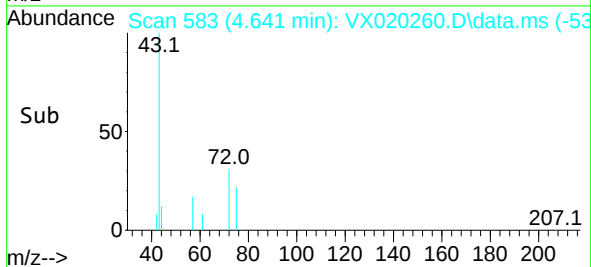
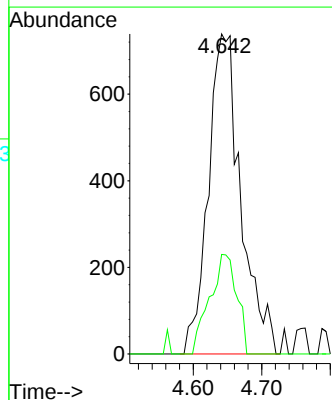
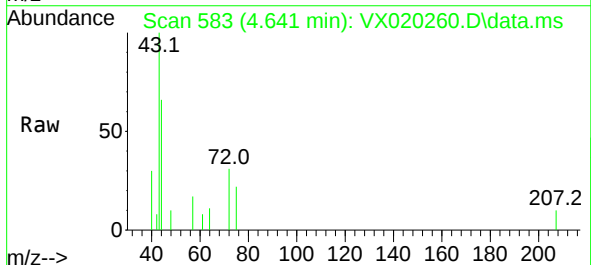
Instrument :
MSVOA_X
ClientSampled :

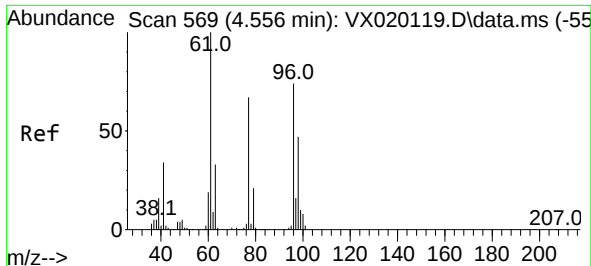
Tgt Ion: 63 Resp: 2682
Ion Ratio Lower Upper
63 100
98 11.2 3.8 11.2
100 0.0 2.5 7.5#



#25
2-Butanone
Concen: 1.04 ug/l
RT: 4.641 min Scan# 583
Delta R.T. 0.018 min
Lab File: VX020260.D
Acq: 21 Dec 2020 19:09

Tgt Ion: 43 Resp: 2443
Ion Ratio Lower Upper
43 100
72 31.1 23.7 35.5





#27

cis-1,2-Dichloroethene

Concen: 2.81 ug/l

RT: 4.556 min Scan# 569

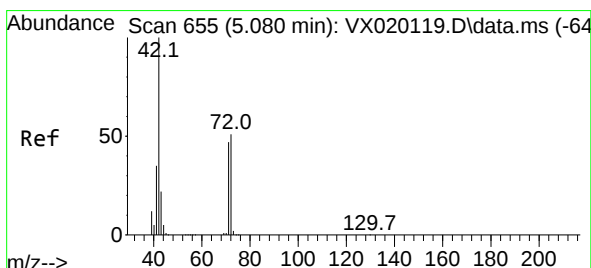
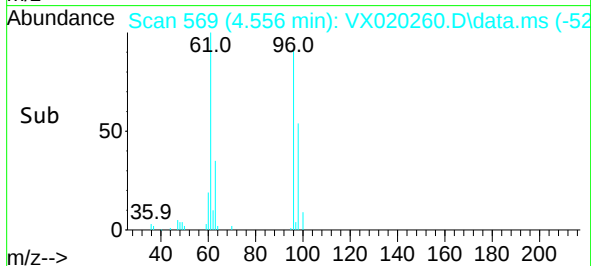
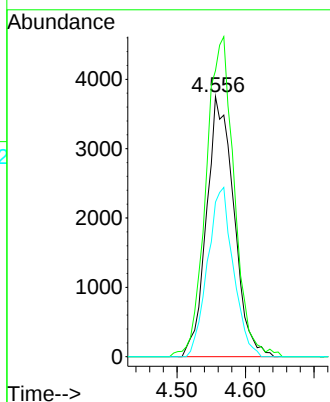
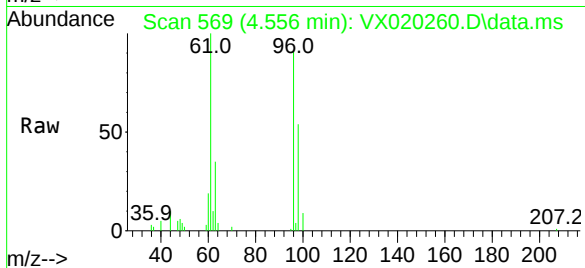
Delta R.T. 0.000 min

Lab File: VX020260.D

Acq: 21 Dec 2020 19:09

Tgt Ion:	96	Resp:	10404
Ion	Ratio	Lower	Upper
96	100		
61	126.6	0.0	285.6
98	61.2	0.0	129.6

Instrument :
MSVOA_X
ClientSampled :



#29

Tetrahydrofuran

Concen: 0.48 ug/l

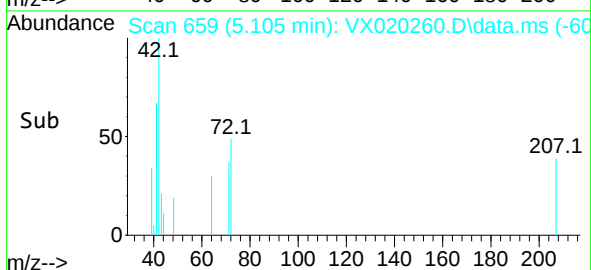
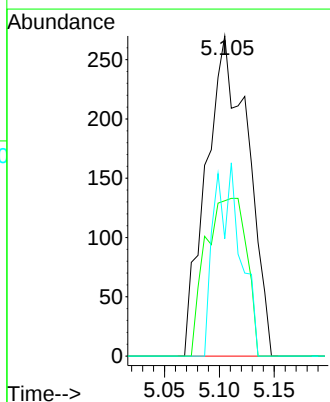
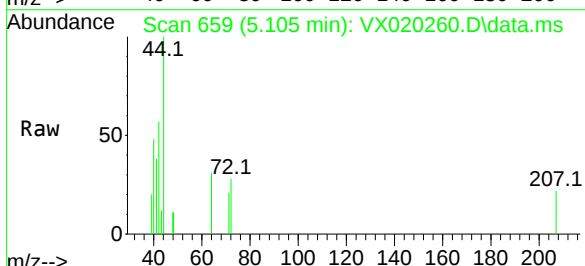
RT: 5.105 min Scan# 659

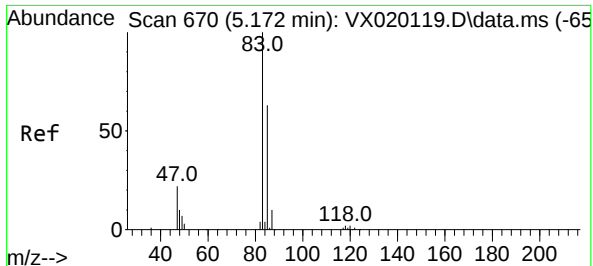
Delta R.T. 0.025 min

Lab File: VX020260.D

Acq: 21 Dec 2020 19:09

Tgt Ion:	42	Resp:	715
Ion	Ratio	Lower	Upper
42	100		
72	48.3	41.7	62.5
71	38.2	38.4	57.6





#30

Chloroform

Concen: 0.53 ug/l

RT: 5.172 min Scan# 670

Delta R.T. -0.000 min

Lab File: VX020260.D

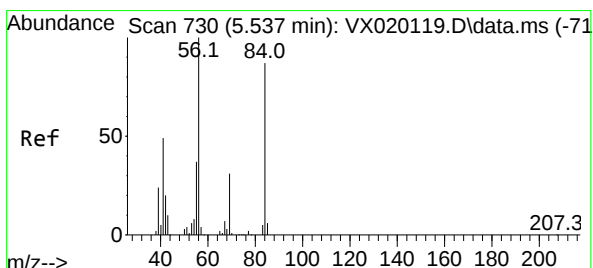
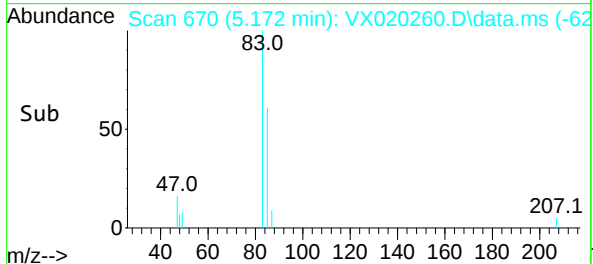
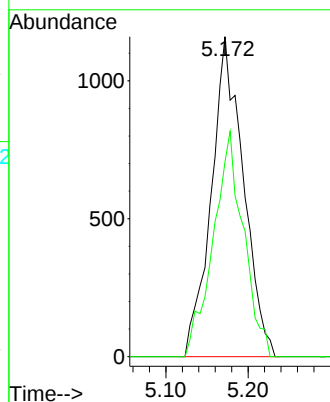
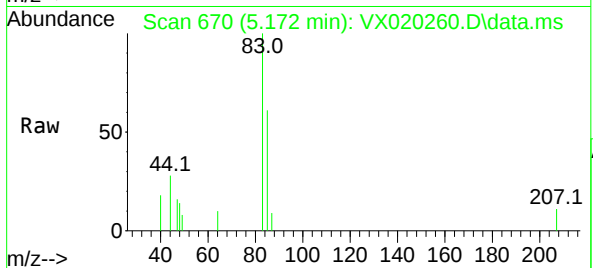
Acq: 21 Dec 2020 19:09

Tgt Ion: 83 Resp: 3139

Ion Ratio Lower Upper

83 100

85 60.9 52.0 78.0



#31

Cyclohexane

Concen: 1.08 ug/l

RT: 5.629 min Scan# 745

Delta R.T. 0.092 min

Lab File: VX020260.D

Acq: 21 Dec 2020 19:09

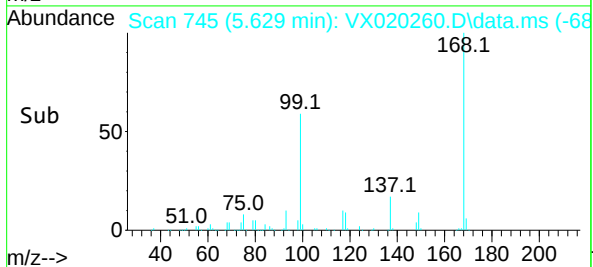
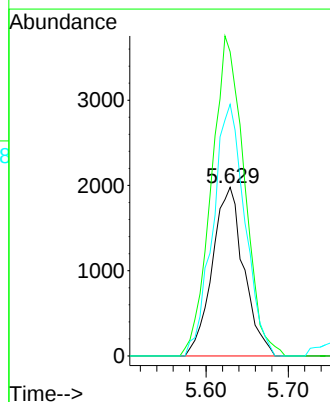
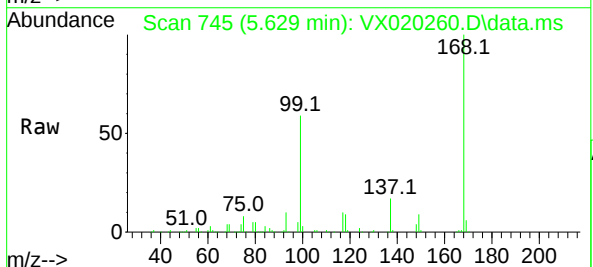
Tgt Ion: 56 Resp: 5277

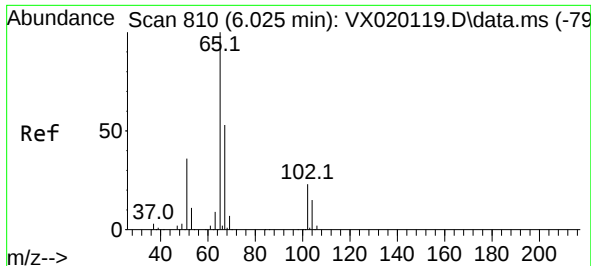
Ion Ratio Lower Upper

56 100

69 180.4 25.3 37.9#

84 149.3 71.4 107.0#

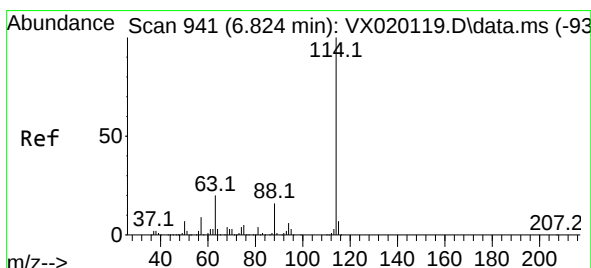
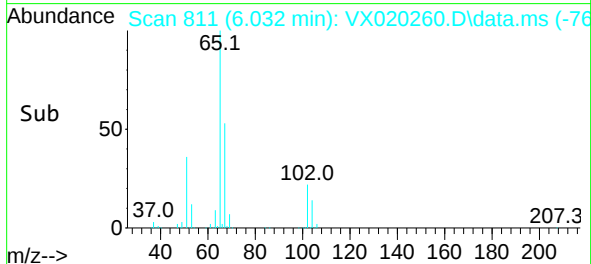
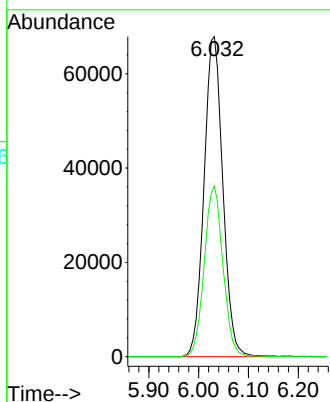
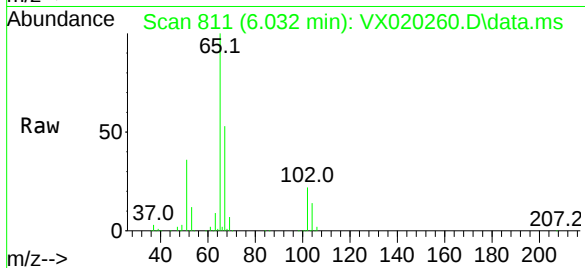




#33
1,2-Dichloroethane-d4
Concen: 50.03 ug/l
RT: 6.032 min Scan# 811
Delta R.T. 0.006 min
Lab File: VX020260.D
Acq: 21 Dec 2020 19:09

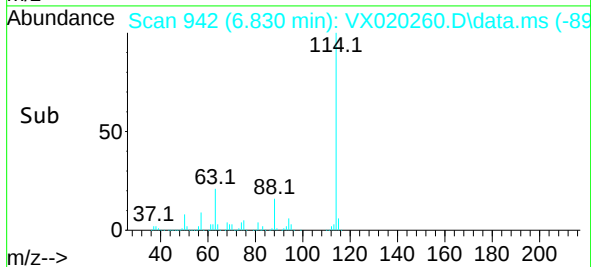
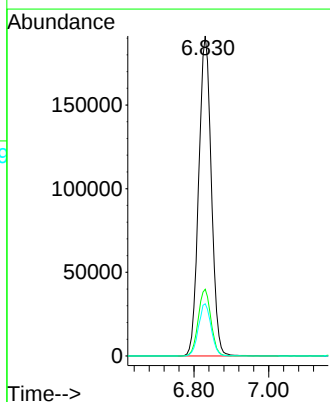
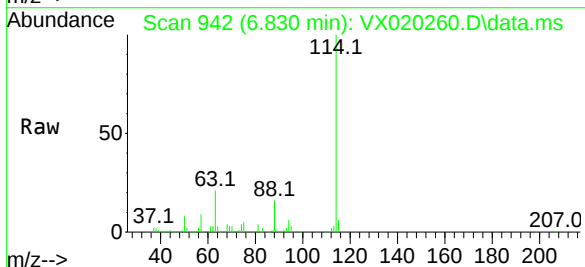
Instrument :
MSVOA_X
ClientSampled :

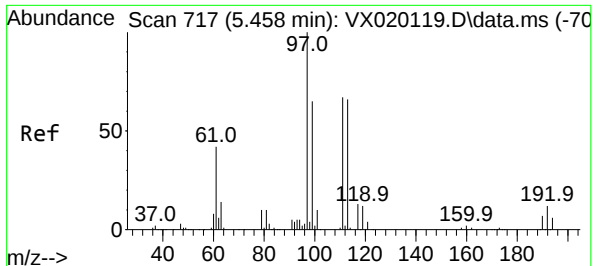
Tgt Ion: 65 Resp: 177591
Ion Ratio Lower Upper
65 100
67 53.1 0.0 105.4



#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.830 min Scan# 942
Delta R.T. 0.006 min
Lab File: VX020260.D
Acq: 21 Dec 2020 19:09

Tgt Ion: 114 Resp: 446743
Ion Ratio Lower Upper
114 100
63 20.8 0.0 40.8
88 16.3 0.0 32.8





#35

Dibromofluoromethane

Concen: 50.30 ug/l

RT: 5.465 min Scan# 718

Delta R.T. 0.007 min

Lab File: VX020260.D

Acq: 21 Dec 2020 19:09

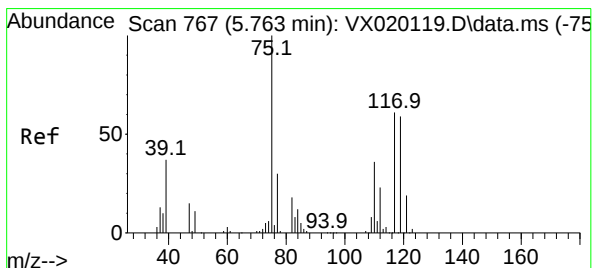
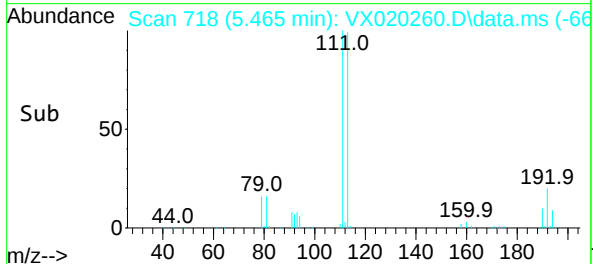
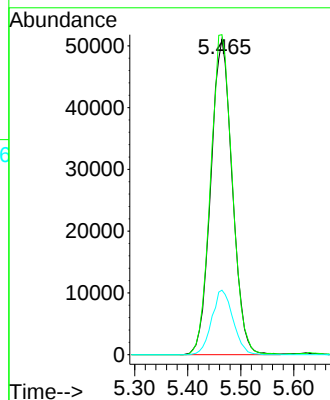
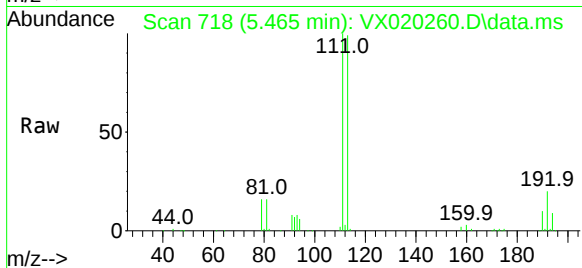
Tgt Ion:113 Resp: 143739

Ion Ratio Lower Upper

113 100

111 102.4 81.9 122.9

192 20.2 16.7 25.1



#36

1,1-Dichloropropene

Concen: 4.64 ug/l

RT: 5.629 min Scan# 745

Delta R.T. -0.134 min

Lab File: VX020260.D

Acq: 21 Dec 2020 19:09

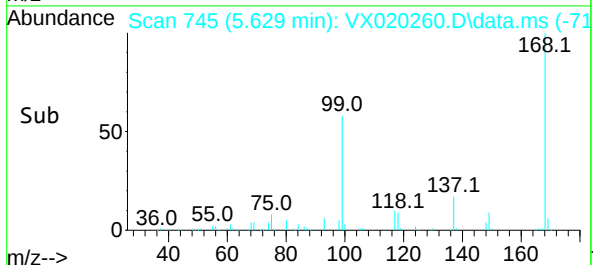
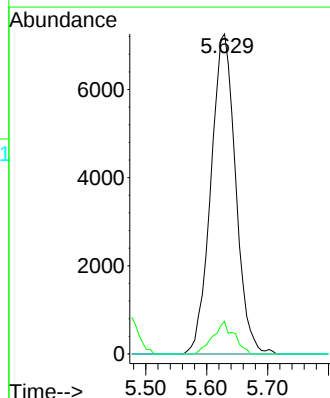
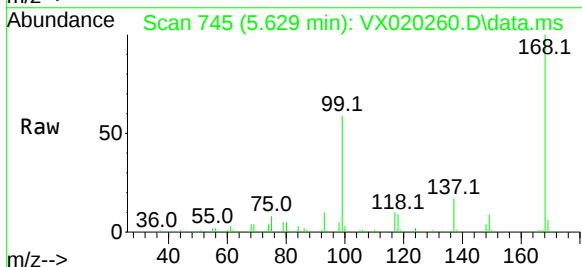
Tgt Ion: 75 Resp: 20494

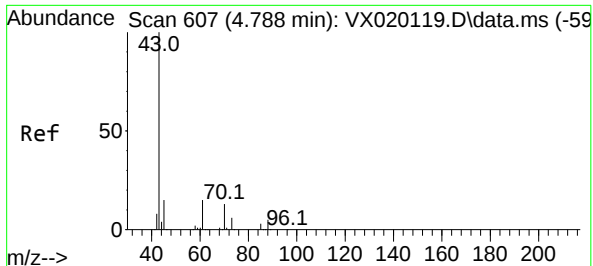
Ion Ratio Lower Upper

75 100

110 8.7 18.1 54.4#

77 0.0 25.3 37.9#





#37

Ethyl Acetate

Concen: 0.53 ug/l

RT: 4.641 min Scan# 583

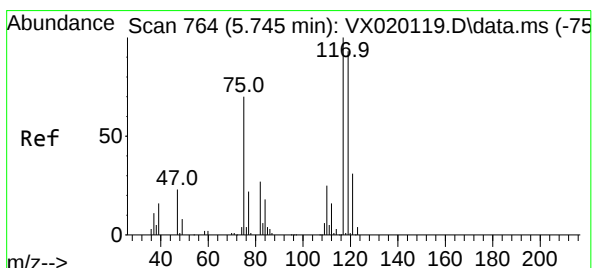
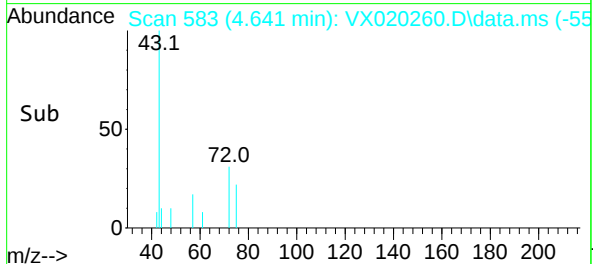
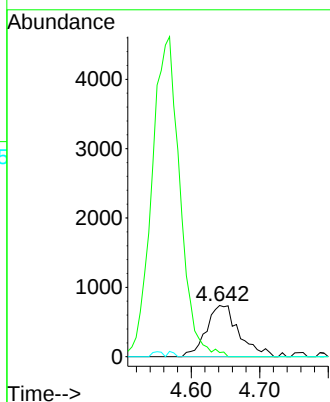
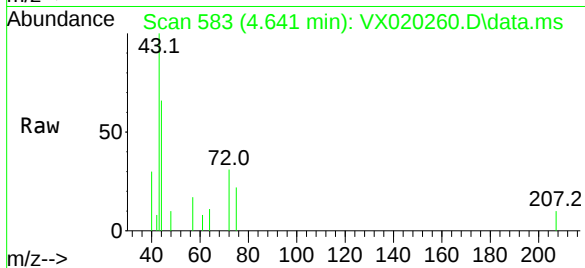
Delta R.T. -0.147 min

Lab File: VX020260.D

Acq: 21 Dec 2020 19:09

Tgt Ion: 43	Resp: 2443
Ion Ratio	Lower Upper
43 100	
61 0.0	12.8 19.2#
70 0.0	10.5 15.7#

Instrument :
MSVOA_X
ClientSampled :



#38

Carbon Tetrachloride

Concen: 0.59 ug/l

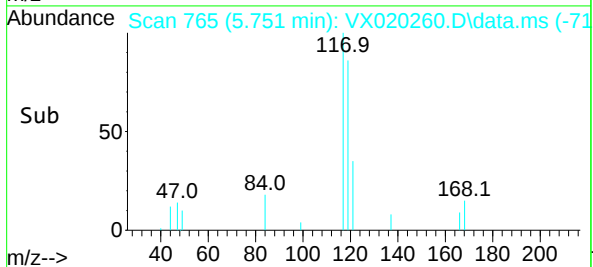
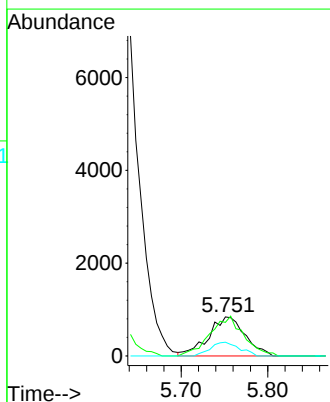
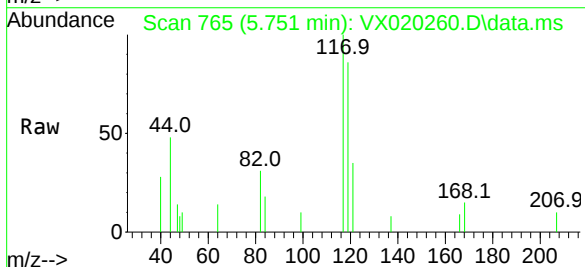
RT: 5.751 min Scan# 765

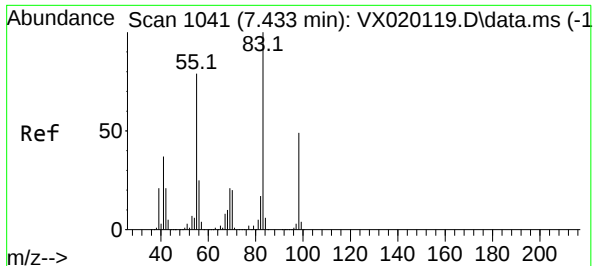
Delta R.T. 0.006 min

Lab File: VX020260.D

Acq: 21 Dec 2020 19:09

Tgt Ion: 117	Resp: 2466
Ion Ratio	Lower Upper
117 100	
119 86.0	76.2 114.2
121 35.0	24.8 37.2





#39

Methylcyclohexane

Concen: 3.70 ug/l

RT: 7.184 min Scan# 1000

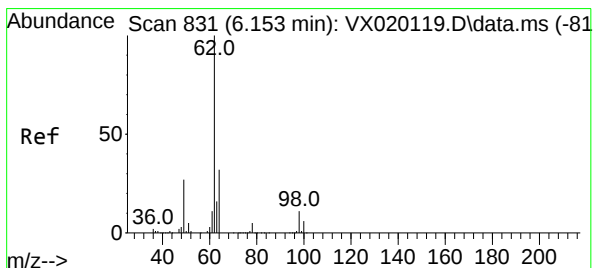
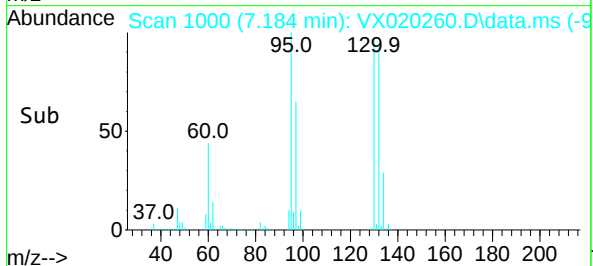
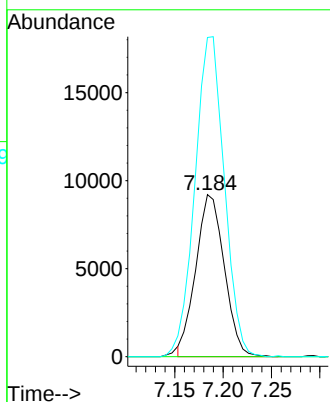
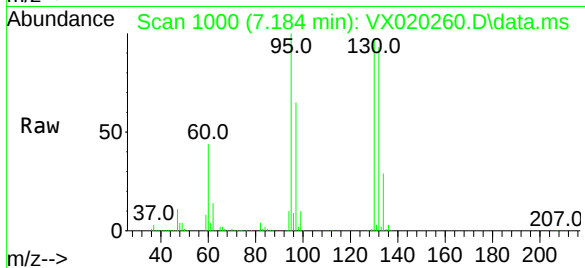
Delta R.T. -0.249 min

Lab File: VX020260.D

Acq: 21 Dec 2020 19:09

Tgt Ion:	83	Resp:	18864
Ion	Ratio	Lower	Upper
83	100		
55	0.0	58.9	88.3#
98	196.3	38.1	57.1#

Instrument :
MSVOA_X
ClientSampled :



#42

1,2-Dichloroethane

Concen: 0.22 ug/l

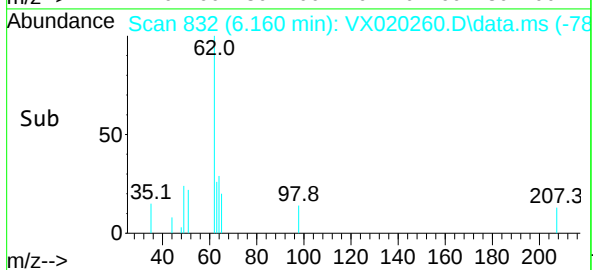
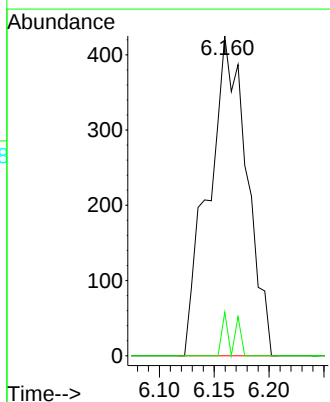
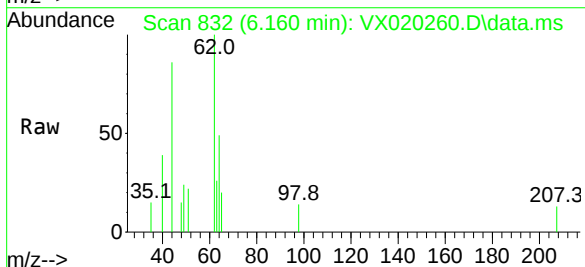
RT: 6.160 min Scan# 832

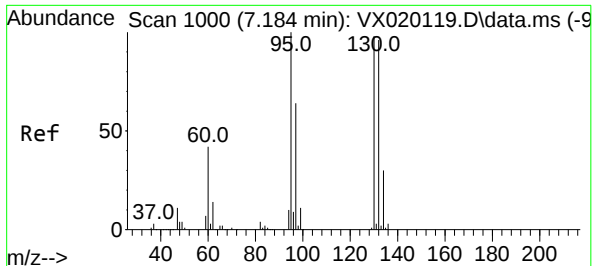
Delta R.T. 0.007 min

Lab File: VX020260.D

Acq: 21 Dec 2020 19:09

Tgt Ion:	62	Resp:	1030
Ion	Ratio	Lower	Upper
62	100		
98	3.9	0.0	20.2

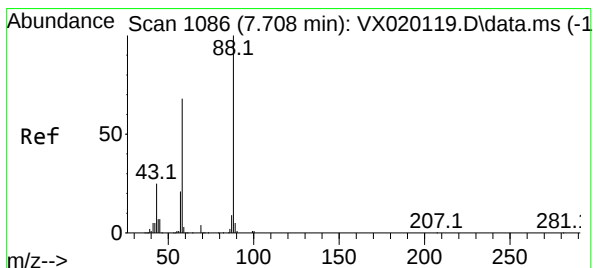
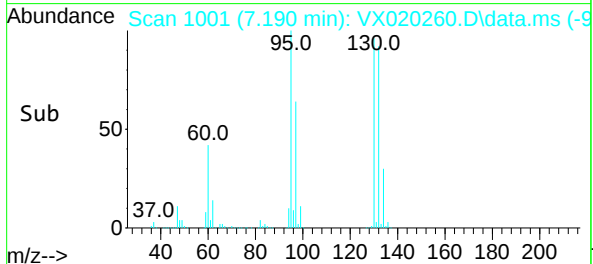
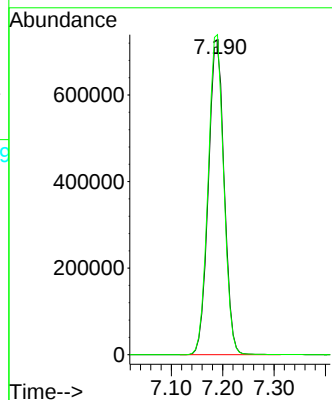
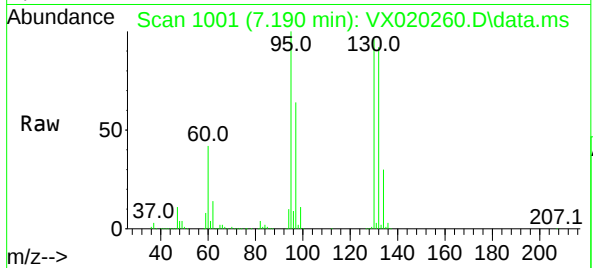




#44
Trichloroethene
Concen: 434.85 ug/l
RT: 7.190 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VX020260.D
Acq: 21 Dec 2020 19:09

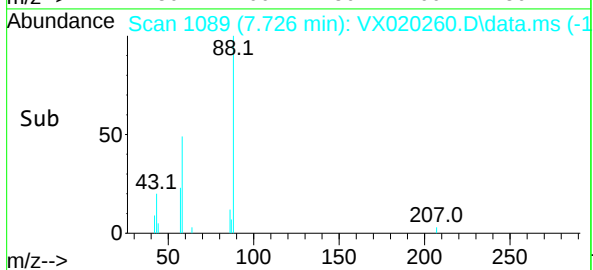
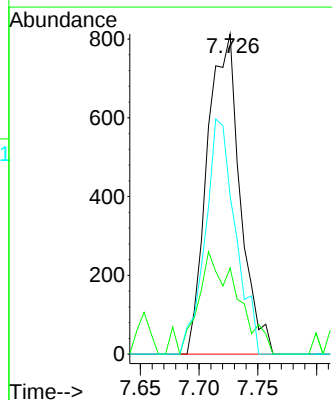
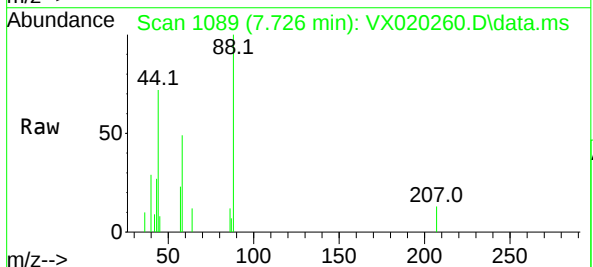
Instrument :
MSVOA_X
ClientSampled :

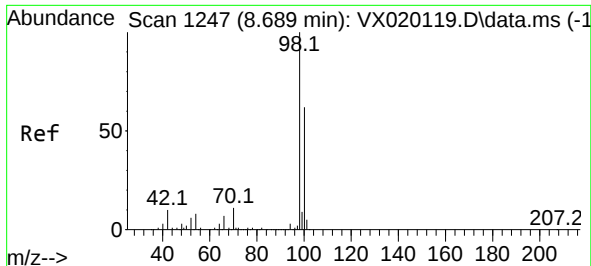
Tgt Ion:130 Resp: 1544906
Ion Ratio Lower Upper
130 100
95 104.0 0.0 198.0



#49
1,4-Dioxane
Concen: 19.01 ug/l
RT: 7.726 min Scan# 1089
Delta R.T. 0.018 min
Lab File: VX020260.D
Acq: 21 Dec 2020 19:09

Tgt Ion: 88 Resp: 1580
Ion Ratio Lower Upper
88 100
43 39.2 23.2 34.8#
58 67.6 55.0 82.4

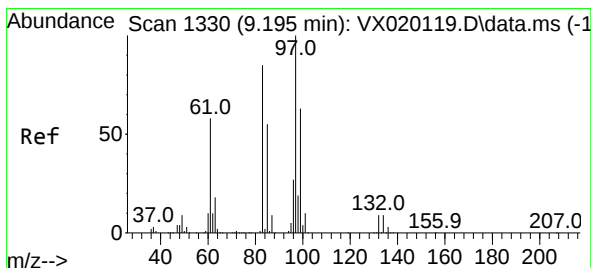
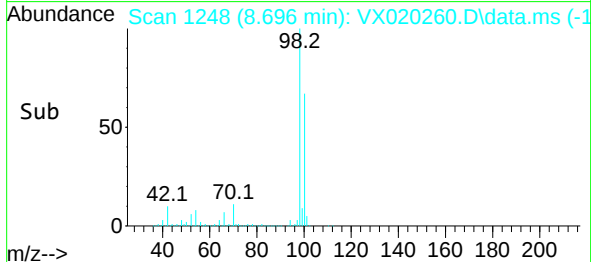
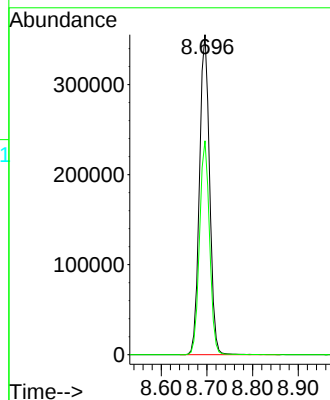
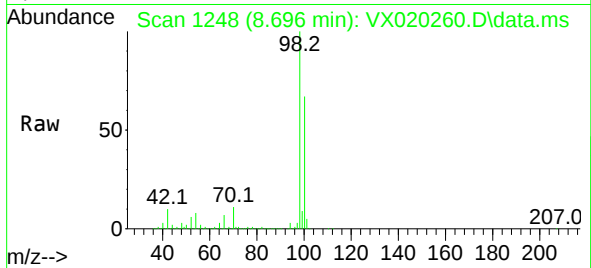




#50
Toluene-d8
Concen: 49.60 ug/l
RT: 8.696 min Scan# 1248
Delta R.T. 0.007 min
Lab File: VX020260.D
Acq: 21 Dec 2020 19:09

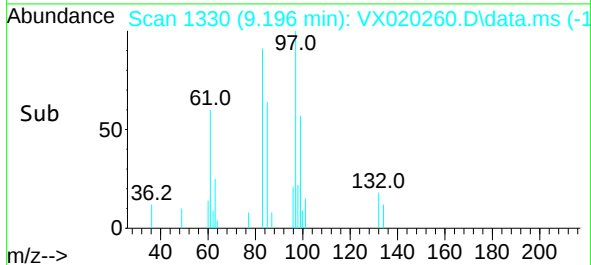
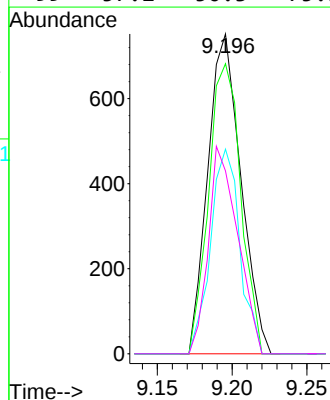
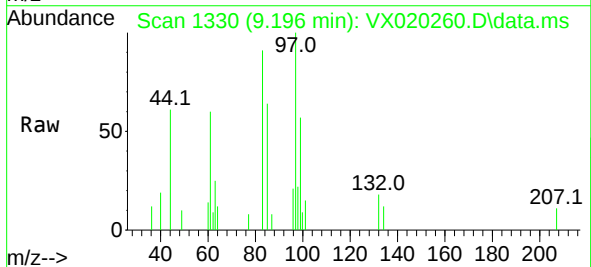
Instrument :
MSVOA_X
ClientSampled :

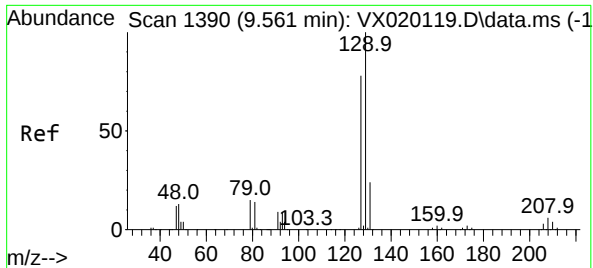
Tgt Ion: 98 Resp: 545588
Ion Ratio Lower Upper
98 100
100 66.1 51.9 77.9



#55
1,1,2-Trichloroethane
Concen: 0.33 ug/l
RT: 9.196 min Scan# 1330
Delta R.T. 0.001 min
Lab File: VX020260.D
Acq: 21 Dec 2020 19:09

Tgt Ion: 97 Resp: 1156
Ion Ratio Lower Upper
97 100
83 90.7 69.3 103.9
85 64.0 44.3 66.5
99 57.2 50.3 75.5

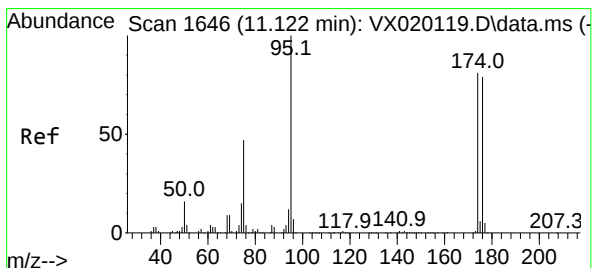
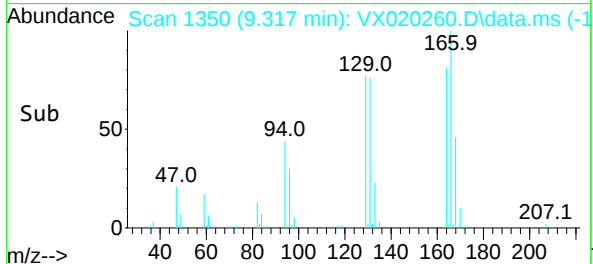
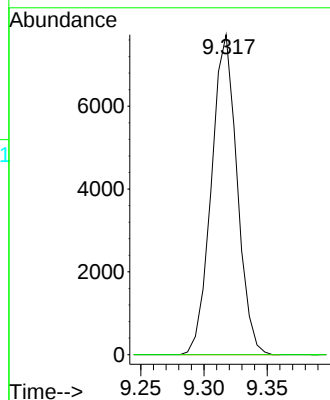
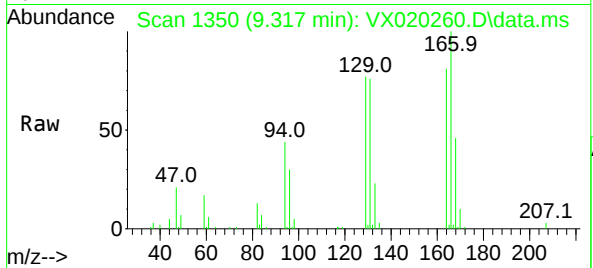




#60
Dibromochloromethane
Concen: 3.18 ug/l
RT: 9.317 min Scan# 1350
Delta R.T. -0.244 min
Lab File: VX020260.D
Acq: 21 Dec 2020 19:09

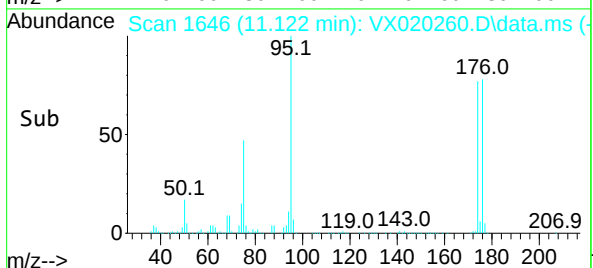
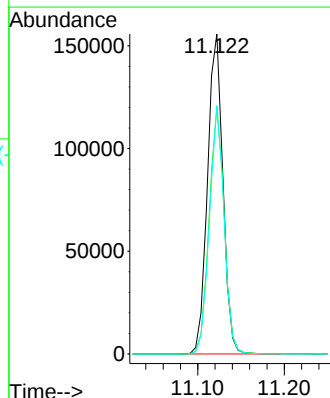
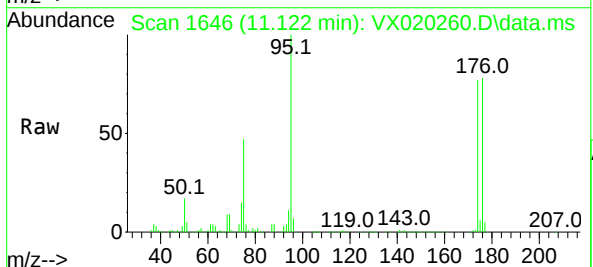
Instrument :
MSVOA_X
ClientSampled :

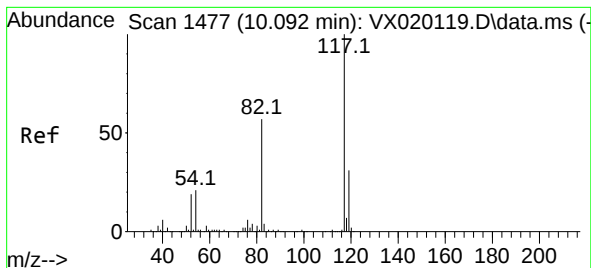
Tgt Ion:129 Resp: 10908
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.2#



#62
4-Bromofluorobenzene
Concen: 45.54 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. 0.000 min
Lab File: VX020260.D
Acq: 21 Dec 2020 19:09

Tgt Ion: 95 Resp: 191742
Ion Ratio Lower Upper
95 100
174 75.9 0.0 154.6
176 73.9 0.0 155.8

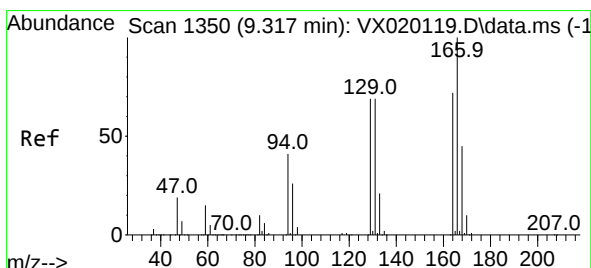
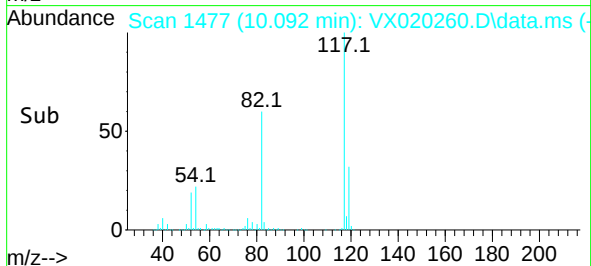
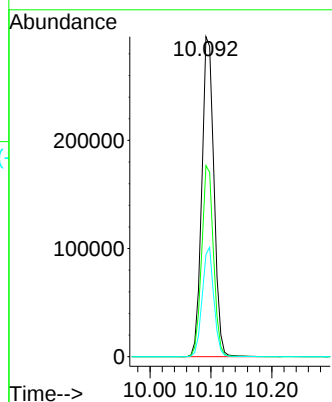
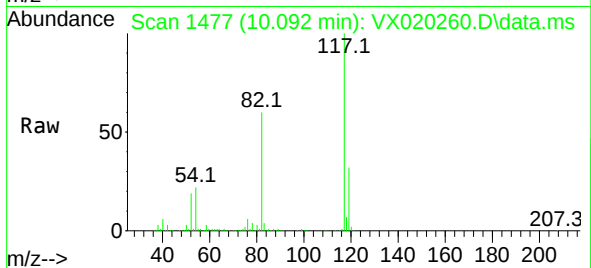




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.092 min Scan# 1477
Delta R.T. -0.000 min
Lab File: VX020260.D
Acq: 21 Dec 2020 19:09

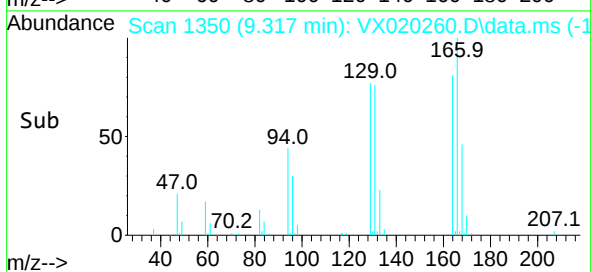
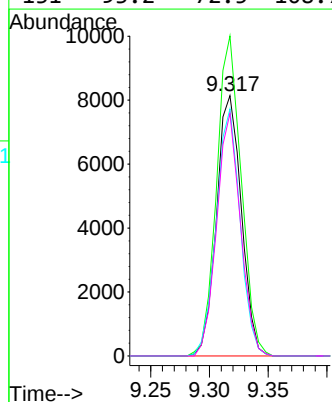
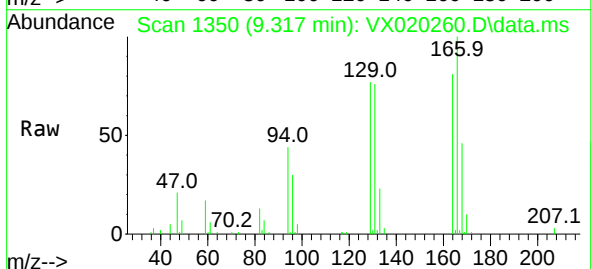
Instrument :
MSVOA_X
ClientSampleId :

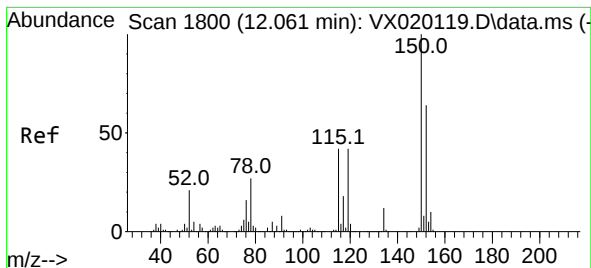
Tgt Ion:117 Resp: 410109
Ion Ratio Lower Upper
117 100
82 59.7 47.4 71.2
119 31.9 26.6 39.8



#64
Tetrachloroethene
Concen: 3.87 ug/l
RT: 9.317 min Scan# 1350
Delta R.T. 0.000 min
Lab File: VX020260.D
Acq: 21 Dec 2020 19:09

Tgt Ion:164 Resp: 11972
Ion Ratio Lower Upper
164 100
166 122.9 103.4 155.2
129 94.9 70.8 106.2
131 93.2 72.5 108.7

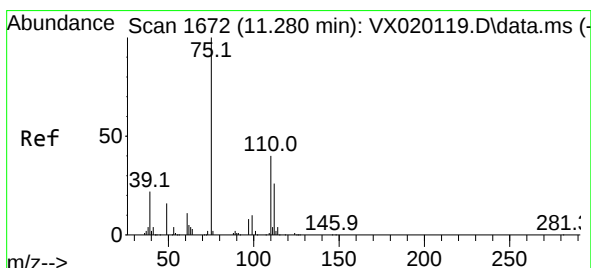
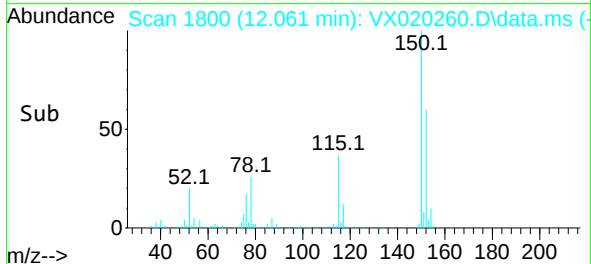
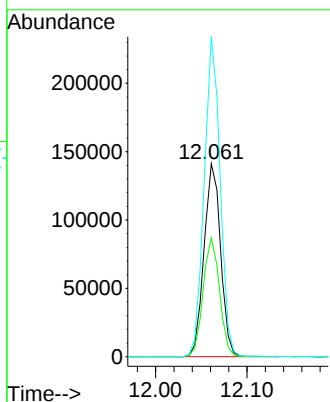
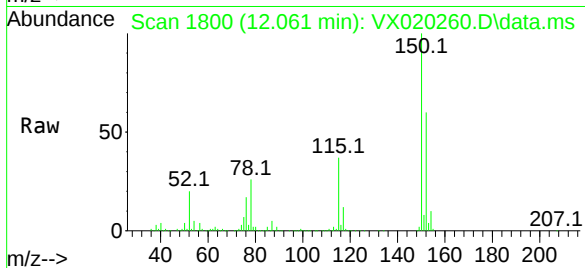




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.061 min Scan# 1800
Delta R.T. -0.000 min
Lab File: VX020260.D
Acq: 21 Dec 2020 19:09

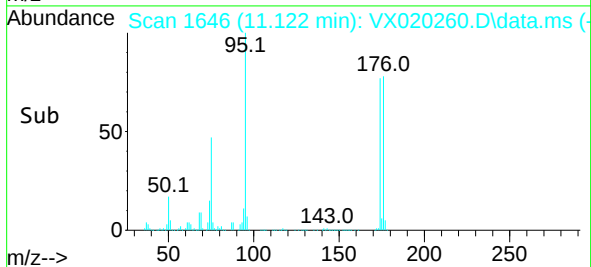
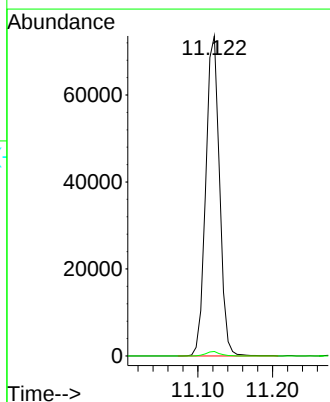
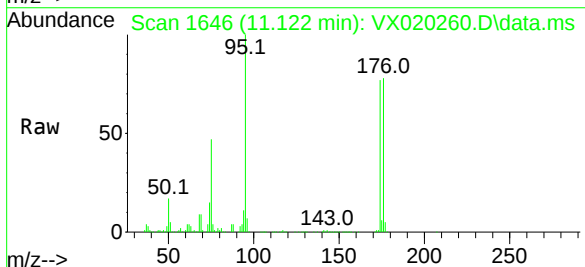
Instrument :
MSVOA_X
ClientSampled :

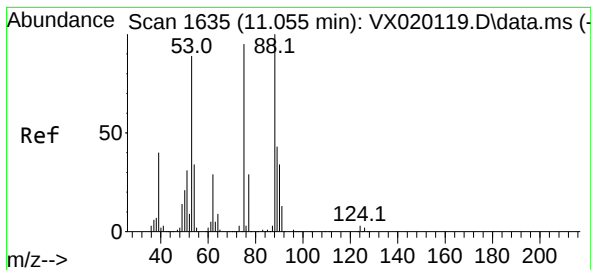
Tgt Ion:152 Resp: 177016
Ion Ratio Lower Upper
152 100
115 60.7 41.1 123.3
150 159.8 0.0 349.0



#76
1,2,3-Trichloropropane
Concen: 21.51 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. -0.158 min
Lab File: VX020260.D
Acq: 21 Dec 2020 19:09

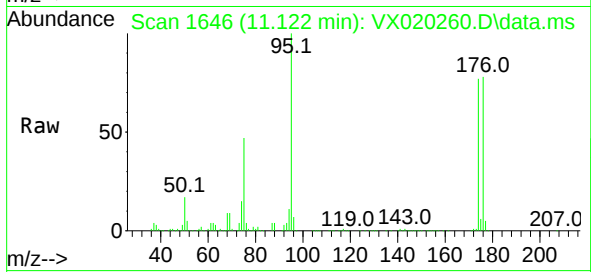
Tgt Ion: 75 Resp: 93795
Ion Ratio Lower Upper
75 100
77 1.4 19.1 57.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.82 ug/l
 RT: 11.122 min Scan# 1646
 Delta R.T. 0.067 min
 Lab File: VX020260.D
 Acq: 21 Dec 2020 19:09

Instrument :
 MSVOA_X
 ClientSampleId :



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

