

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122420\
 Data File : VX020380.D
 Acq On : 24 Dec 2020 12:15
 Operator : JC/MD
 Sample : L5123-20
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 25 01:11:12 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

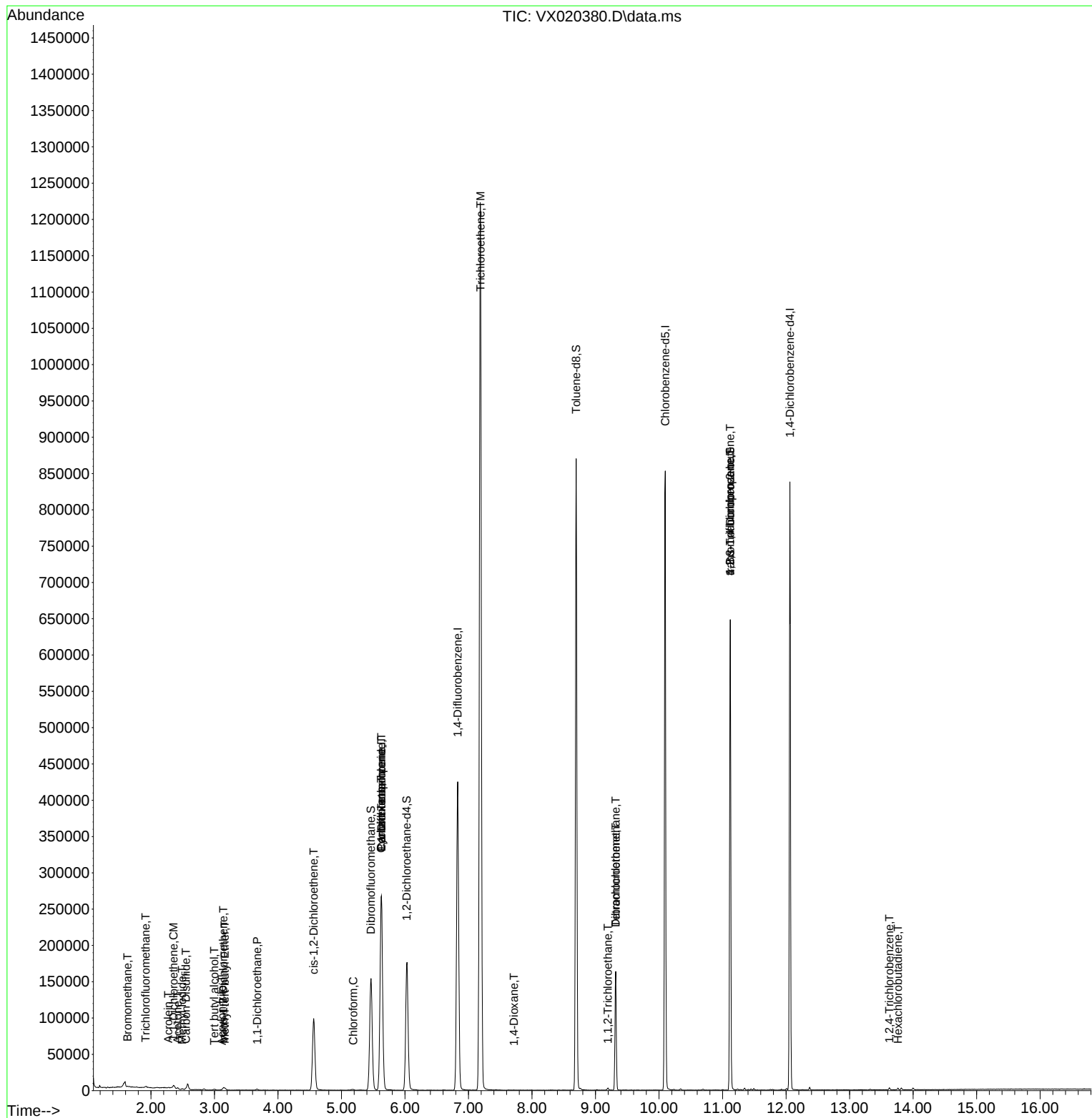
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.629	168	256416	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.830	114	417716	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.098	117	389616	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.061	152	168822	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.025	65	168544	49.04	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	98.08%
35) Dibromofluoromethane	5.464	113	134756	50.43	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	100.86%
50) Toluene-d8	8.695	98	517431	50.31	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	100.62%
62) 4-Bromofluorobenzene	11.122	95	177977	45.21	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	90.42%
Target Compounds						
					Qvalue	
5) Bromomethane	1.630	94	745	0.66	ug/l #	78
7) Trichlorofluoromethane	1.916	101	1009	0.22	ug/l #	74
10) Methyl Iodide	2.489	142	1278	3.63	ug/l #	96
11) Tert butyl alcohol	2.995	59	737	0.96	ug/l #	73
12) 1,1-Dichloroethene	2.355	96	988	0.38	ug/l #	82
13) Acrolein	2.270	56	243	0.51	ug/l #	30
15) Acrylonitrile	3.117	53	489	0.28	ug/l #	84
16) Acetone	2.416	43	2145	1.37	ug/l	94
17) Carbon Disulfide	2.550	76	1958	0.25	ug/l #	90
19) Methyl tert-butyl Ether	3.160	73	2593	0.26	ug/l	91
21) trans-1,2-Dichloroethene	3.142	96	1006	0.32	ug/l	97
24) 1,1-Dichloroethane	3.672	63	1534	0.27	ug/l #	81
27) cis-1,2-Dichloroethene	4.562	96	64745	18.05	ug/l	91
30) Chloroform	5.184	83	1440	0.25	ug/l	96
31) Cyclohexane	5.623	56	5193	1.10	ug/l #	1
36) 1,1-Dichloropropene	5.629	75	20045	4.86	ug/l #	49
38) Carbon Tetrachloride	5.629	117	25323	6.45	ug/l #	16
44) Trichloroethene	7.190	130	479172	144.25	ug/l	97
49) 1,4-Dioxane	7.714	88	161	2.07	ug/l #	44
55) 1,1,2-Trichloroethane	9.195	97	743	0.23	ug/l	95
60) Dibromochloromethane	9.317	129	29106	9.07	ug/l #	11
64) Tetrachloroethene	9.317	164	30842	10.51	ug/l	98
76) 1,2,3-Trichloropropane	11.122	75	87863	21.13	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.122	75	87863	62.68	ug/l #	12
93) 1,2,4-Trichlorobenzene	13.628	180	761	0.21	ug/l	100
94) Hexachlorobutadiene	13.762	225	335	2.85	ug/l	98

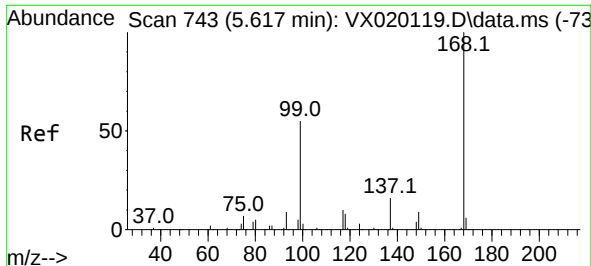
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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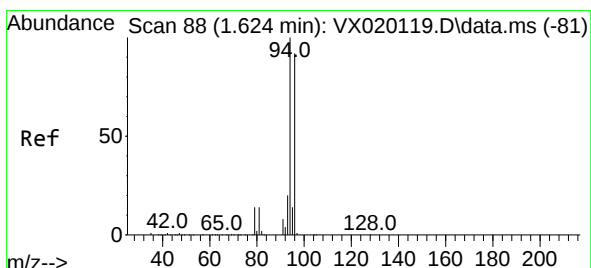
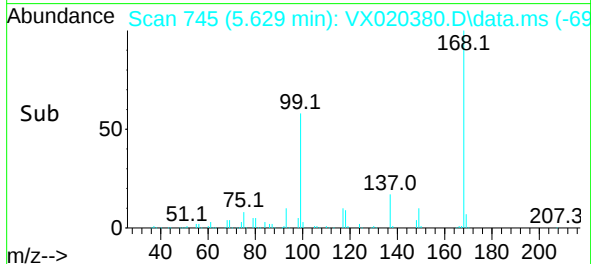
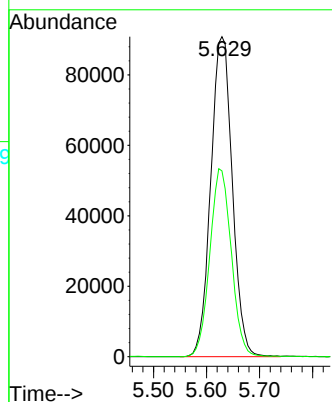
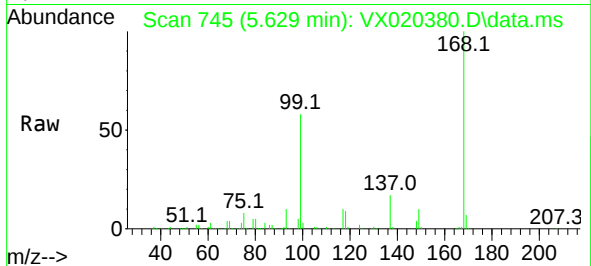




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 745
Delta R.T. 0.012 min
Lab File: VX020380.D
Acq: 24 Dec 2020 12:15

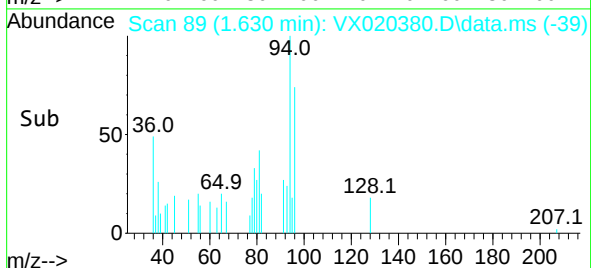
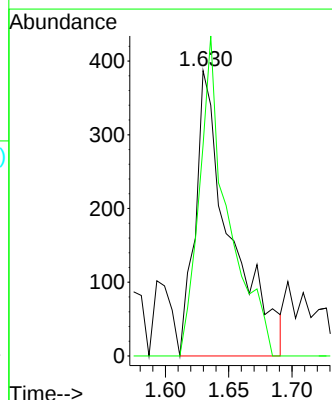
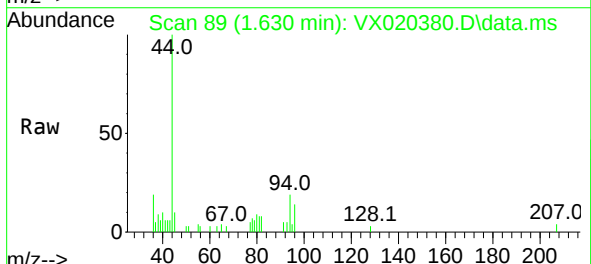
Instrument :
MSVOA_X
ClientSampled :

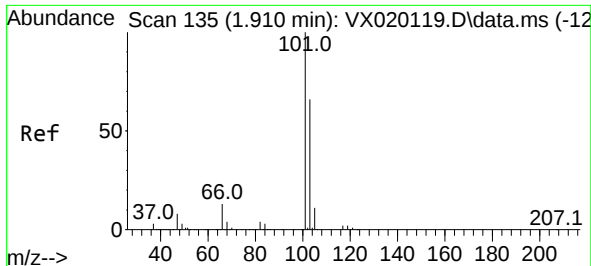
Tgt Ion:168 Resp: 256416
Ion Ratio Lower Upper
168 100
99 58.1 45.8 68.6



#5
Bromomethane
Concen: 0.66 ug/l
RT: 1.630 min Scan# 89
Delta R.T. 0.006 min
Lab File: VX020380.D
Acq: 24 Dec 2020 12:15

Tgt Ion: 94 Resp: 745
Ion Ratio Lower Upper
94 100
96 73.9 76.4 114.6#

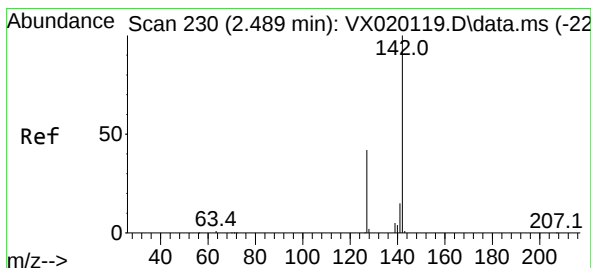
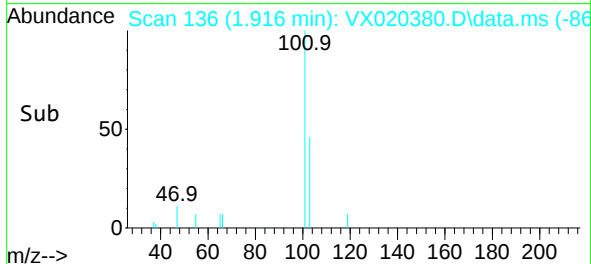
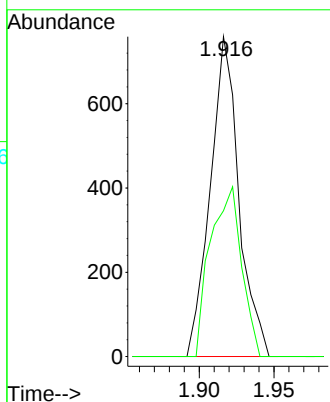
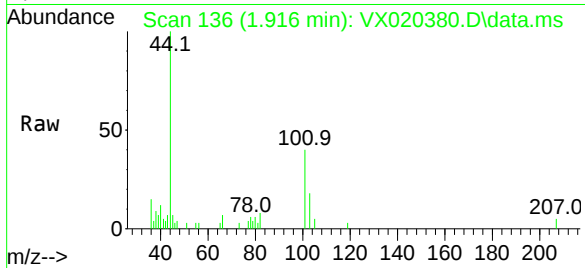




#7
Trichlorofluoromethane
Concen: 0.22 ug/l
RT: 1.916 min Scan# 136
Delta R.T. 0.006 min
Lab File: VX020380.D
Acq: 24 Dec 2020 12:15

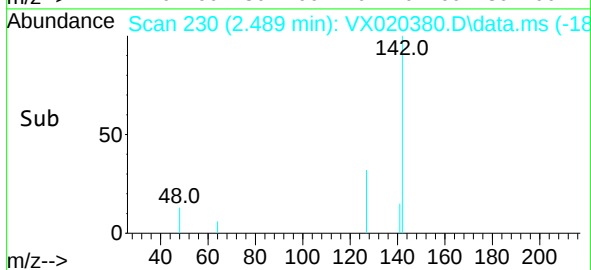
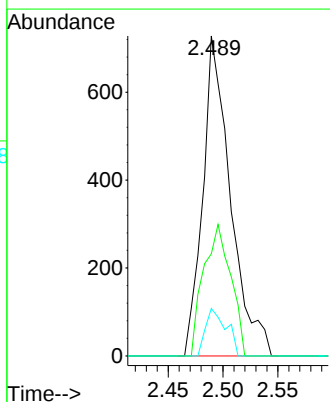
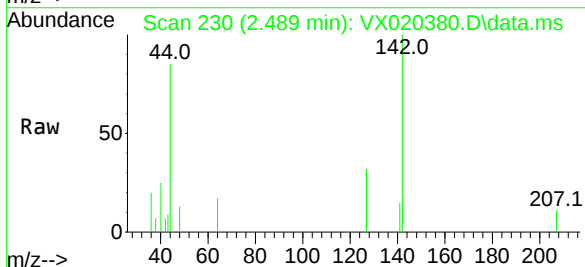
Instrument :
MSVOA_X
ClientSampled :

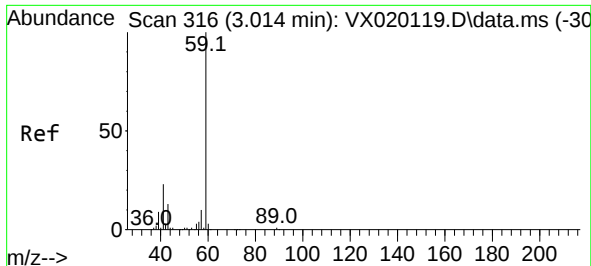
Tgt Ion:101 Resp: 1009
Ion Ratio Lower Upper
101 100
103 45.6 53.2 79.8#



#10
Methyl Iodide
Concen: 3.63 ug/l
RT: 2.489 min Scan# 230
Delta R.T. 0.000 min
Lab File: VX020380.D
Acq: 24 Dec 2020 12:15

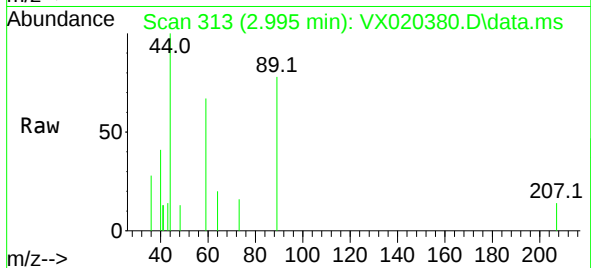
Tgt Ion:142 Resp: 1278
Ion Ratio Lower Upper
142 100
127 40.2 33.3 49.9
141 11.0 11.4 17.0#



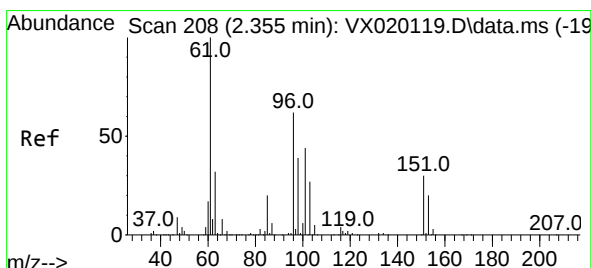
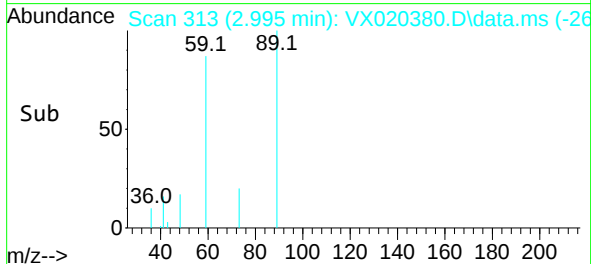
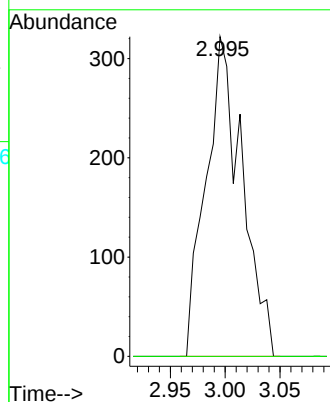


#11
Tert butyl alcohol
Concen: 0.96 ug/l
RT: 2.995 min Scan# 313
Delta R.T. -0.019 min
Lab File: VX020380.D
Acq: 24 Dec 2020 12:15

Instrument :
MSVOA_X
ClientSampled :

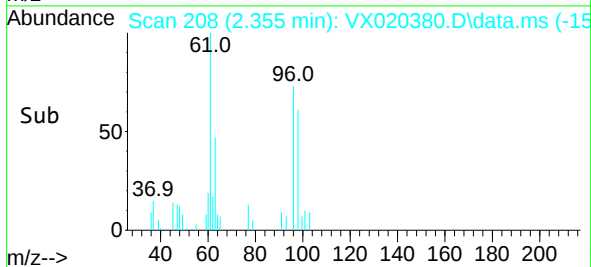
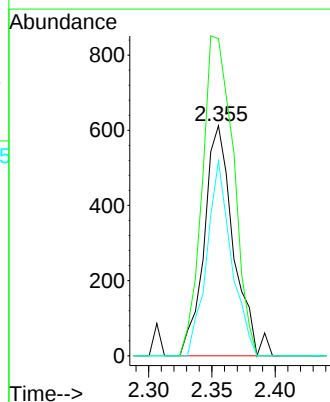
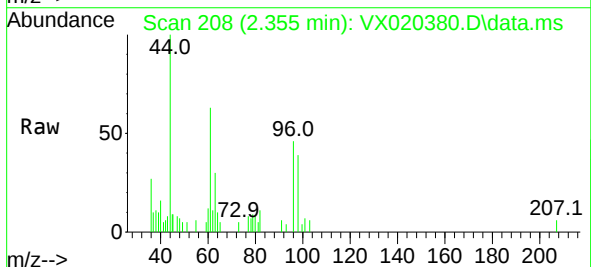


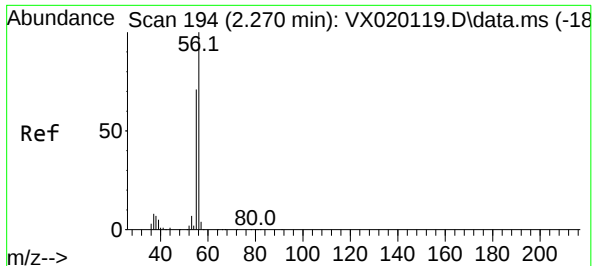
Tgt Ion: 59 Resp: 737
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#



#12
1,1-Dichloroethene
Concen: 0.38 ug/l
RT: 2.355 min Scan# 208
Delta R.T. 0.000 min
Lab File: VX020380.D
Acq: 24 Dec 2020 12:15

Tgt Ion: 96 Resp: 988
Ion Ratio Lower Upper
96 100
61 137.9 124.6 187.0
98 84.8 50.6 76.0#

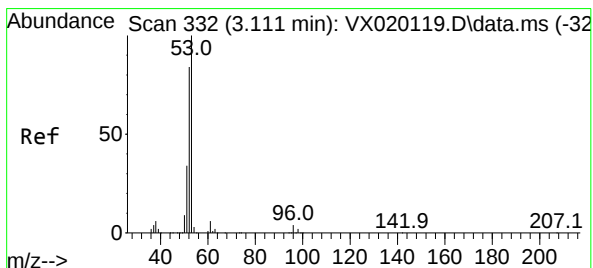
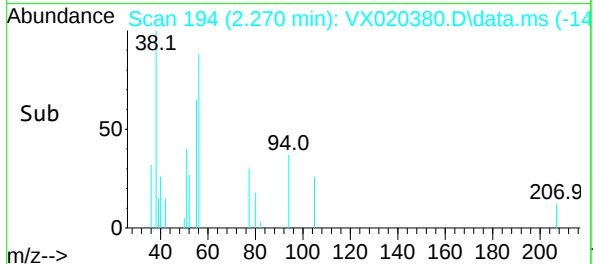
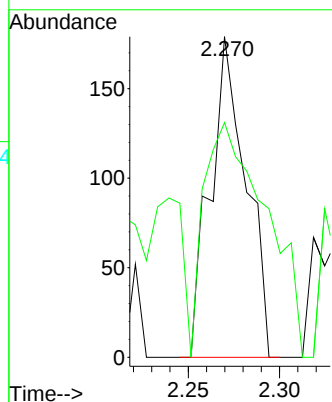
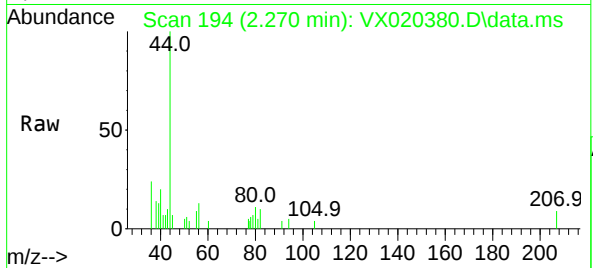




#13
Acrolein
Concen: 0.51 ug/l
RT: 2.270 min Scan# 194
Delta R.T. -0.000 min
Lab File: VX020380.D
Acq: 24 Dec 2020 12:15

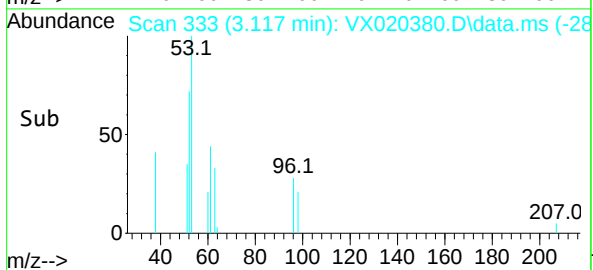
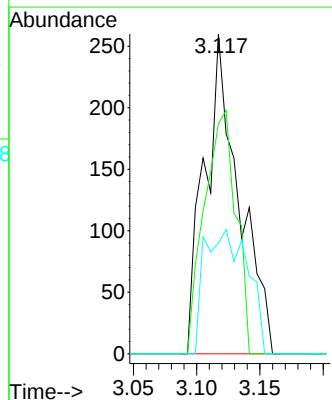
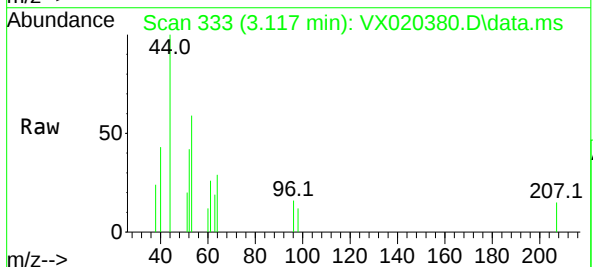
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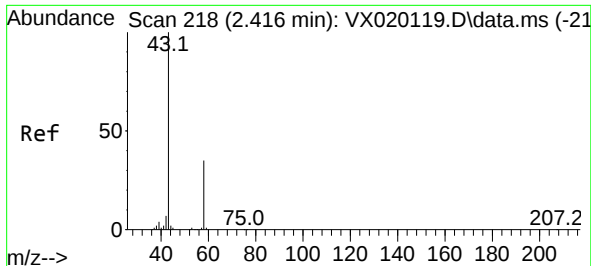
Tgt Ion: 56 Resp: 243
Ion Ratio Lower Upper
56 100
55 128.0 56.4 84.6#



#15
Acrylonitrile
Concen: 0.28 ug/l
RT: 3.117 min Scan# 333
Delta R.T. 0.006 min
Lab File: VX020380.D
Acq: 24 Dec 2020 12:15

Tgt Ion: 53 Resp: 489
Ion Ratio Lower Upper
53 100
52 70.3 65.3 97.9
51 49.1 28.2 42.2#

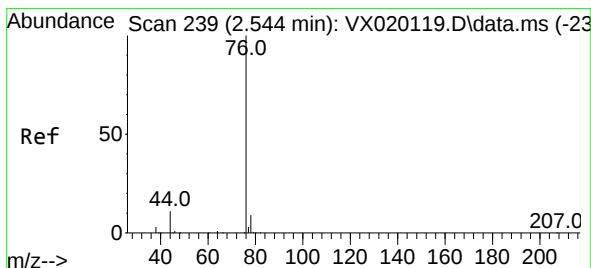
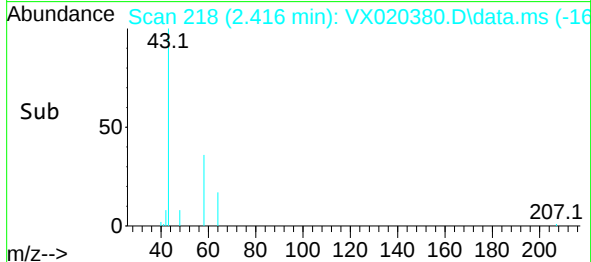
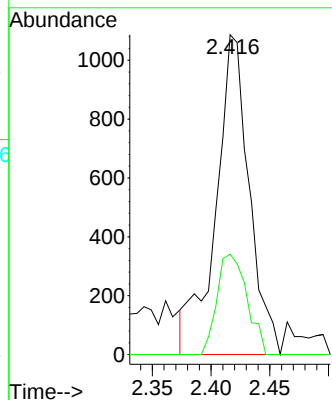
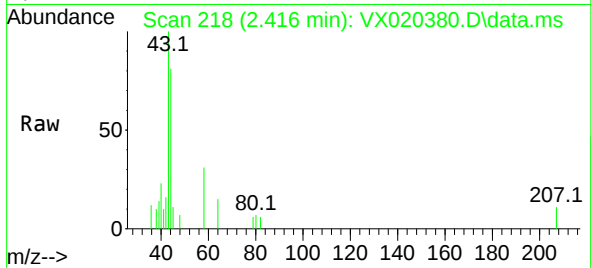




#16
Acetone
Concen: 1.37 ug/l
RT: 2.416 min Scan# 218
Delta R.T. 0.000 min
Lab File: VX020380.D
Acq: 24 Dec 2020 12:15

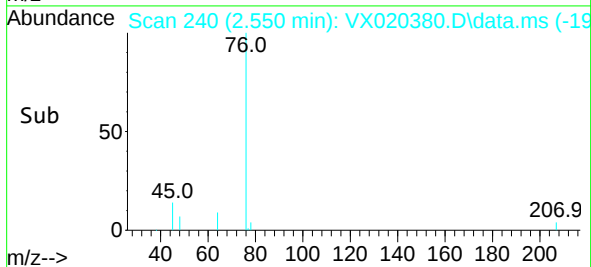
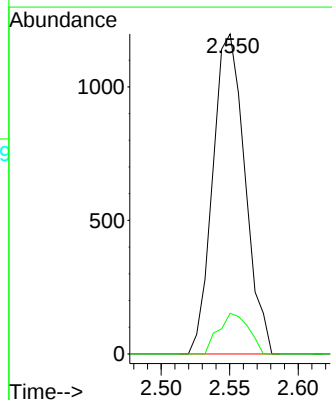
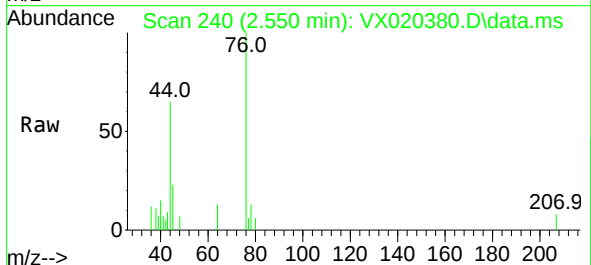
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ClientSampled :

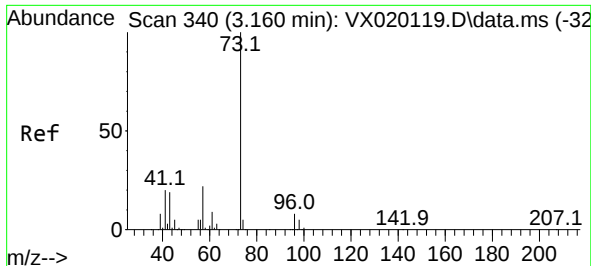
Tgt Ion: 43 Resp: 2145
Ion Ratio Lower Upper
43 100
58 31.4 27.8 41.8



#17
Carbon Disulfide
Concen: 0.25 ug/l
RT: 2.550 min Scan# 240
Delta R.T. 0.006 min
Lab File: VX020380.D
Acq: 24 Dec 2020 12:15

Tgt Ion: 76 Resp: 1958
Ion Ratio Lower Upper
76 100
78 12.7 7.2 10.8#

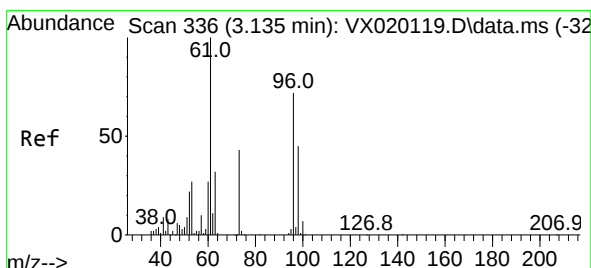
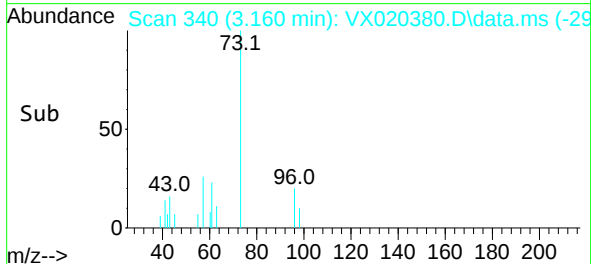
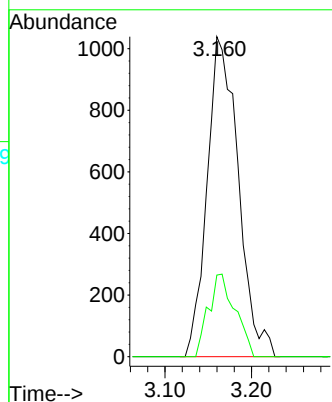
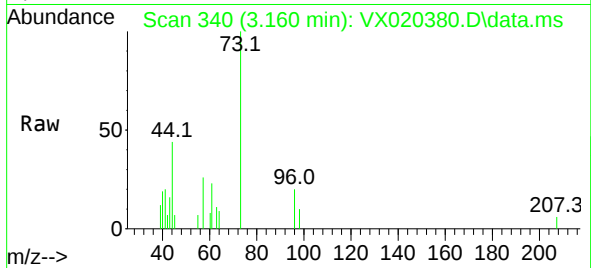




#19
Methyl tert-butyl Ether
Concen: 0.26 ug/l
RT: 3.160 min Scan# 340
Delta R.T. -0.000 min
Lab File: VX020380.D
Acq: 24 Dec 2020 12:15

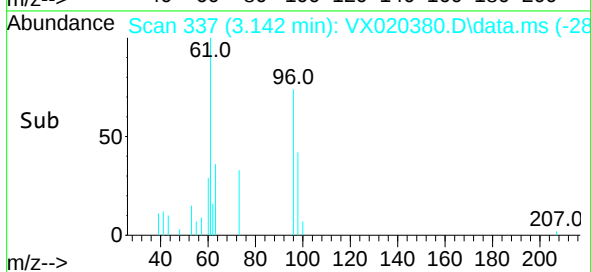
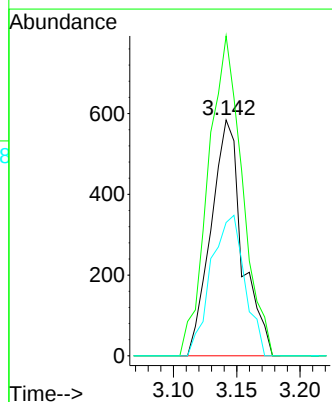
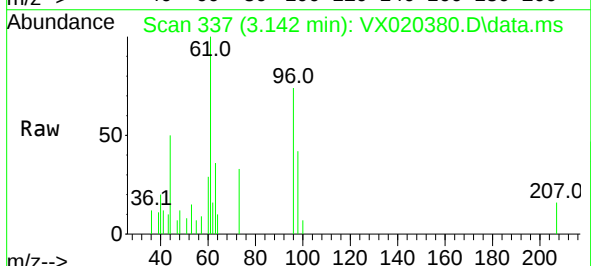
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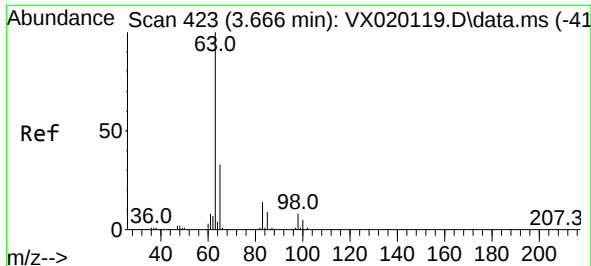
Tgt Ion: 73 Resp: 2593
Ion Ratio Lower Upper
73 100
57 25.5 17.1 25.7



#21
trans-1,2-Dichloroethene
Concen: 0.32 ug/l
RT: 3.142 min Scan# 337
Delta R.T. 0.007 min
Lab File: VX020380.D
Acq: 24 Dec 2020 12:15

Tgt Ion: 96 Resp: 1006
Ion Ratio Lower Upper
96 100
61 135.6 107.7 161.5
98 56.5 50.4 75.6

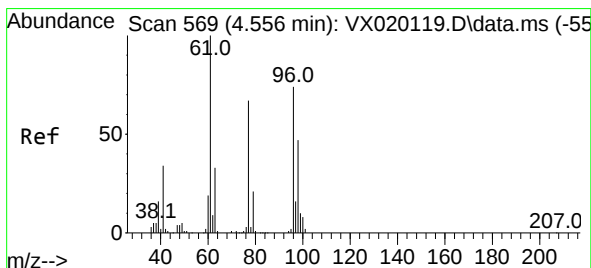
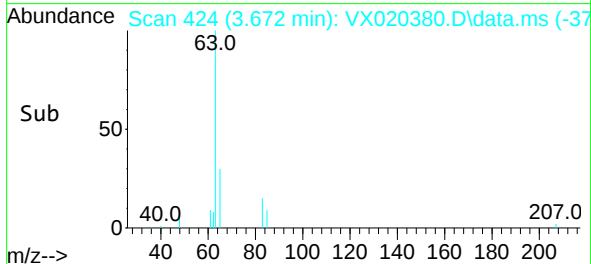
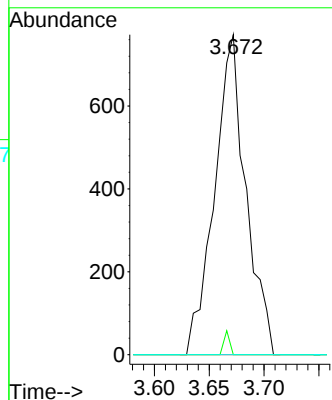
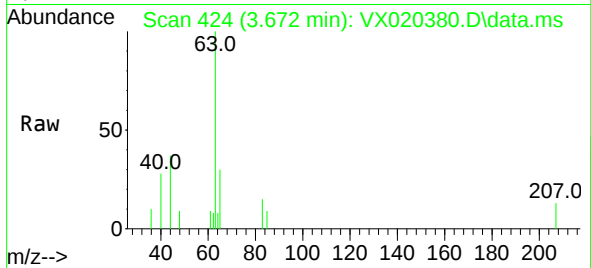




#24
1,1-Dichloroethane
Concen: 0.27 ug/l
RT: 3.672 min Scan# 424
Delta R.T. 0.006 min
Lab File: VX020380.D
Acq: 24 Dec 2020 12:15

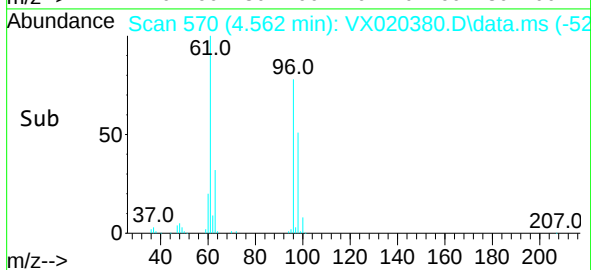
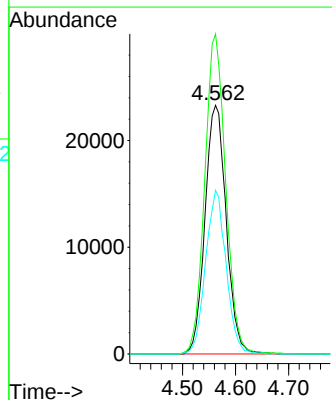
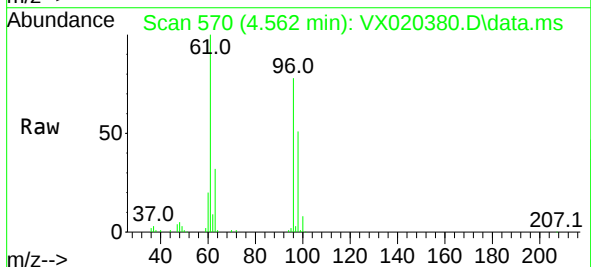
Instrument :
MSVOA_X
ClientSampleId :

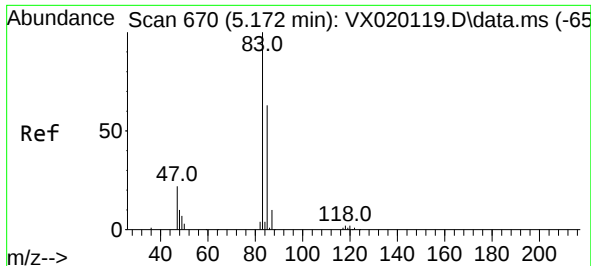
Tgt Ion: 63 Resp: 1534
Ion Ratio Lower Upper
63 100
98 0.0 3.8 11.2#
100 0.0 2.5 7.5#



#27
cis-1,2-Dichloroethene
Concen: 18.05 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.006 min
Lab File: VX020380.D
Acq: 24 Dec 2020 12:15

Tgt Ion: 96 Resp: 64745
Ion Ratio Lower Upper
96 100
61 126.7 0.0 285.6
98 63.8 0.0 129.6





#30

Chloroform

Concen: 0.25 ug/l

RT: 5.184 min Scan# 672

Delta R.T. 0.012 min

Lab File: VX020380.D

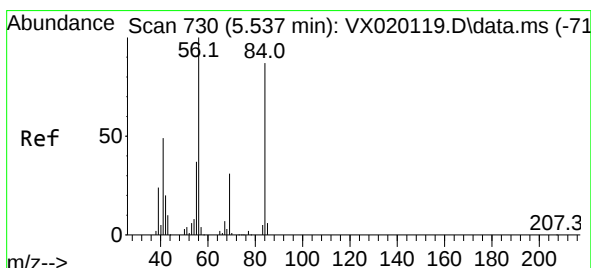
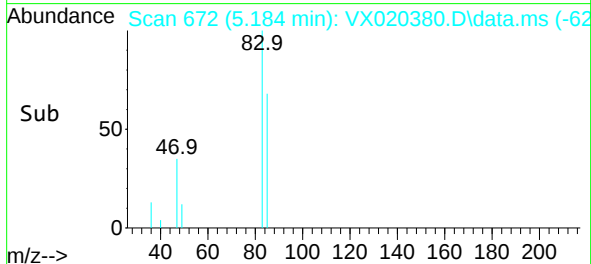
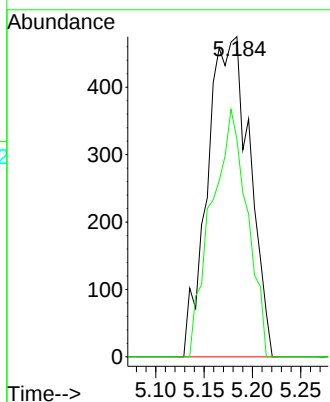
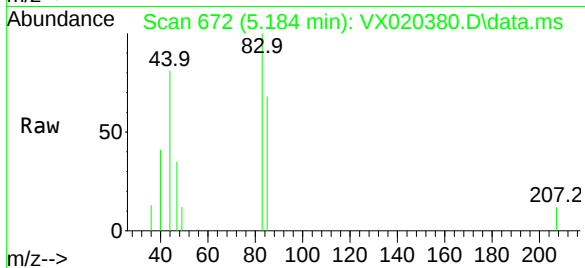
Acq: 24 Dec 2020 12:15

Tgt Ion: 83 Resp: 1440

Ion Ratio Lower Upper

83 100

85 68.0 52.0 78.0



#31

Cyclohexane

Concen: 1.10 ug/l

RT: 5.623 min Scan# 744

Delta R.T. 0.086 min

Lab File: VX020380.D

Acq: 24 Dec 2020 12:15

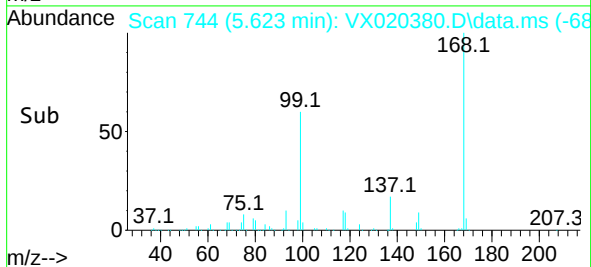
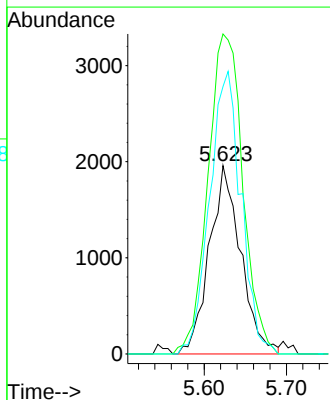
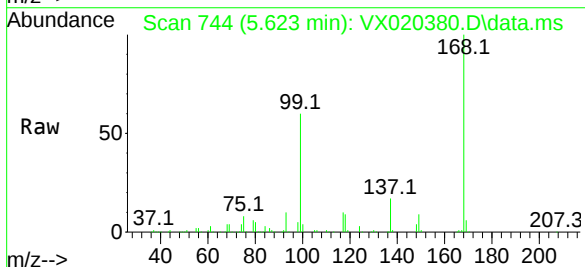
Tgt Ion: 56 Resp: 5193

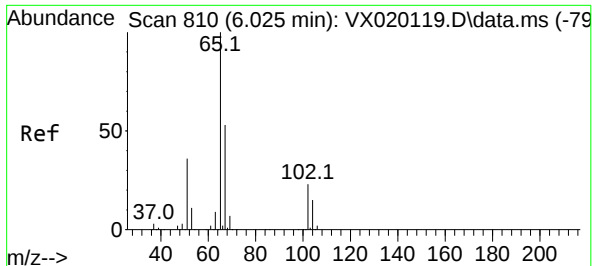
Ion Ratio Lower Upper

56 100

69 169.9 25.3 37.9#

84 142.0 71.4 107.0#





#33

1,2-Dichloroethane-d4

Concen: 49.04 ug/l

RT: 6.025 min Scan# 810

Delta R.T. 0.000 min

Lab File: VX020380.D

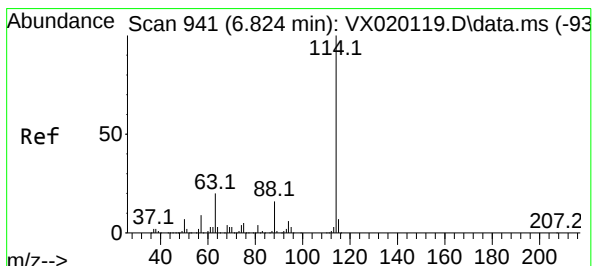
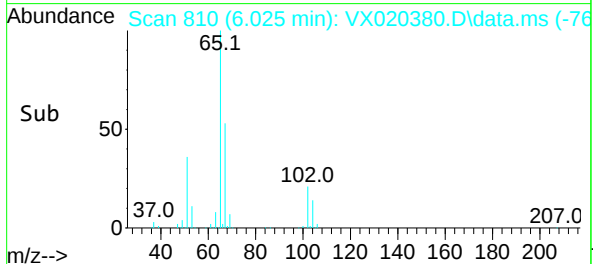
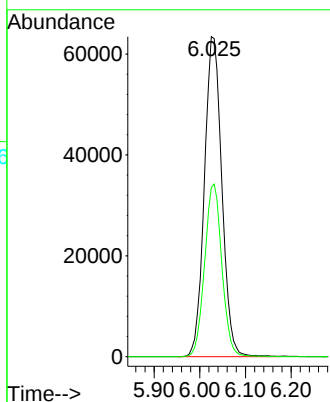
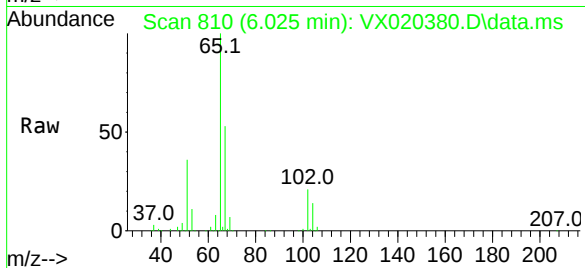
Acq: 24 Dec 2020 12:15

Tgt Ion: 65 Resp: 168544

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: VX020380.D

Acq: 24 Dec 2020 12:15

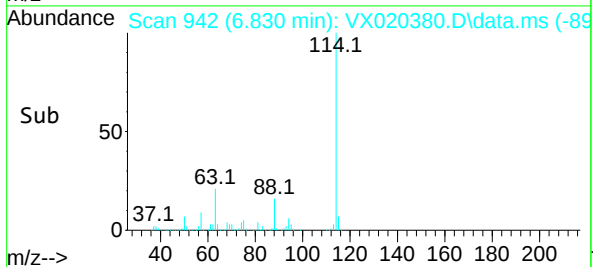
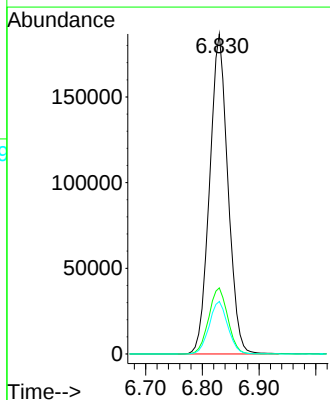
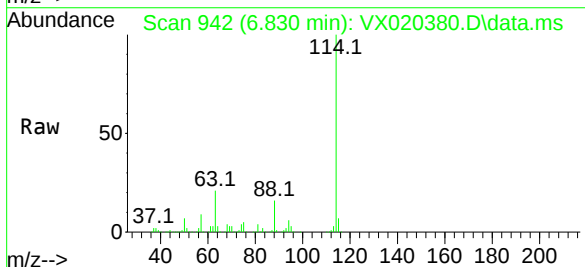
Tgt Ion: 114 Resp: 417716

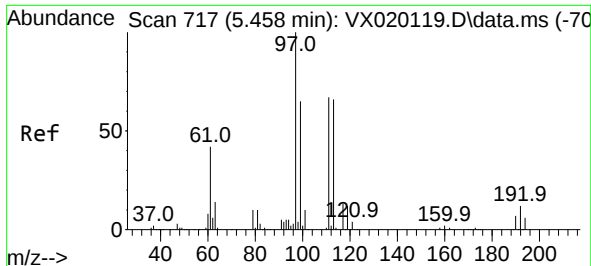
Ion Ratio Lower Upper

114 100

63 20.7 0.0 40.8

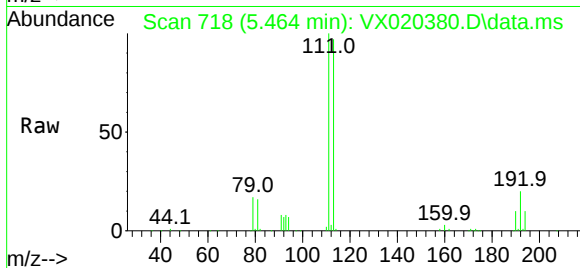
88 16.4 0.0 32.8



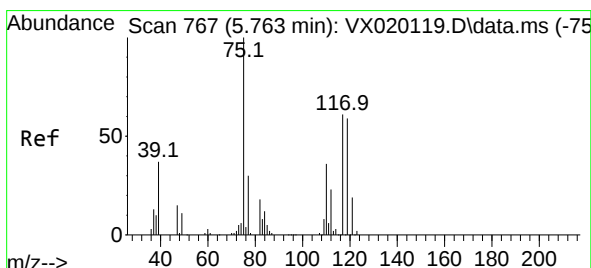
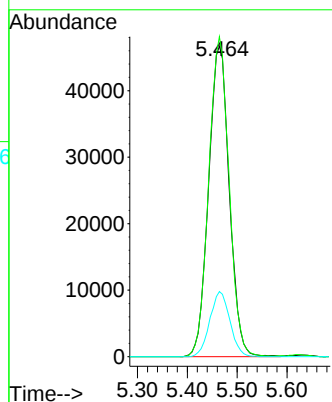
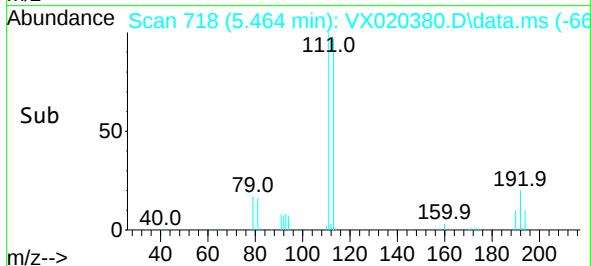


#35
Dibromofluoromethane
Concen: 50.43 ug/l
RT: 5.464 min Scan# 718
Delta R.T. 0.006 min
Lab File: VX020380.D
Acq: 24 Dec 2020 12:15

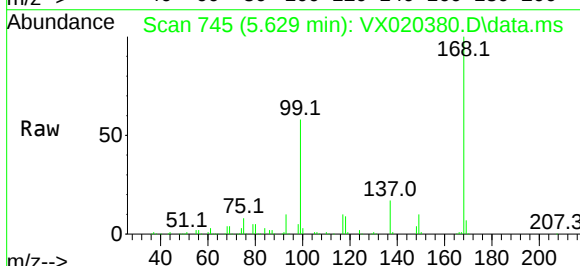
Instrument :
MSVOA_X
ClientSampleId :



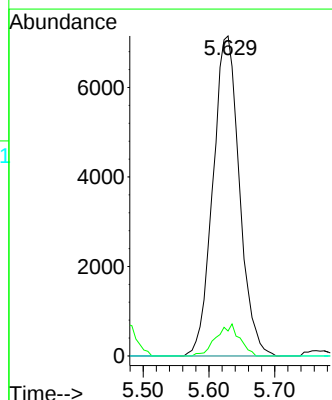
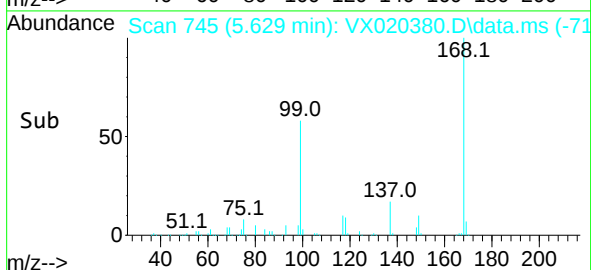
Tgt Ion:113 Resp: 134756
Ion Ratio Lower Upper
113 100
111 101.1 81.9 122.9
192 20.3 16.7 25.1

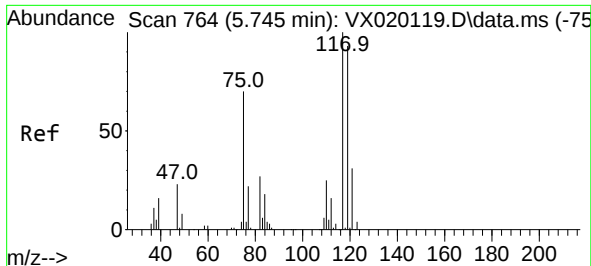


#36
1,1-Dichloropropene
Concen: 4.86 ug/l
RT: 5.629 min Scan# 745
Delta R.T. -0.134 min
Lab File: VX020380.D
Acq: 24 Dec 2020 12:15



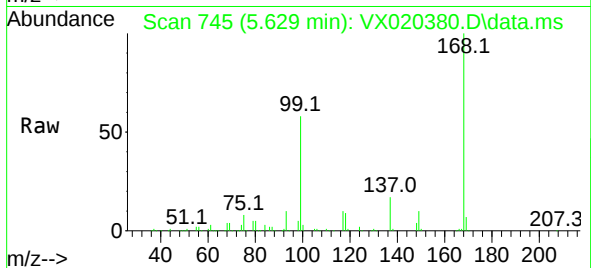
Tgt Ion: 75 Resp: 20045
Ion Ratio Lower Upper
75 100
110 8.8 18.1 54.4#
77 0.0 25.3 37.9#



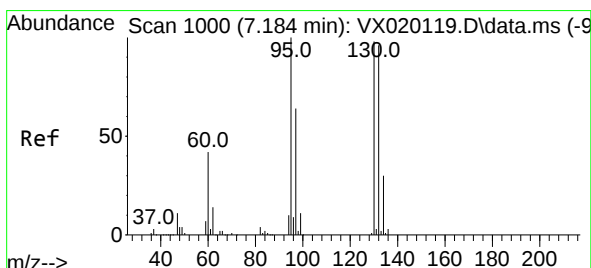
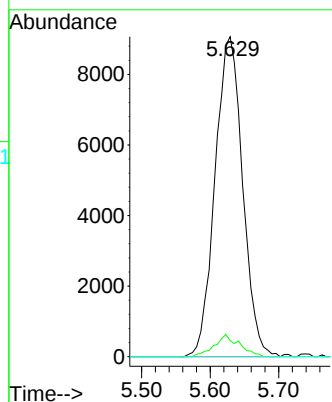
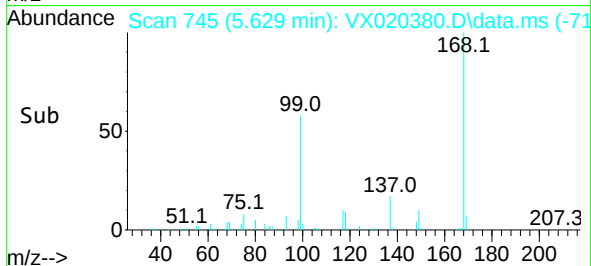


#38
Carbon Tetrachloride
Concen: 6.45 ug/l
RT: 5.629 min Scan# 745
Delta R.T. -0.116 min
Lab File: VX020380.D
Acq: 24 Dec 2020 12:15

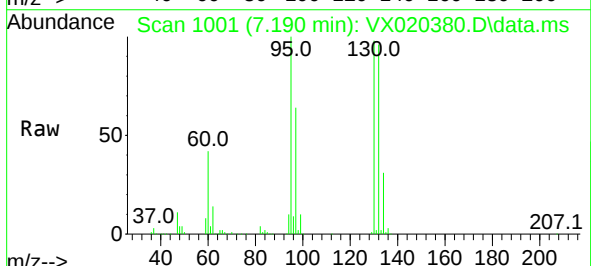
Instrument :
MSVOA_X
ClientSampleId :



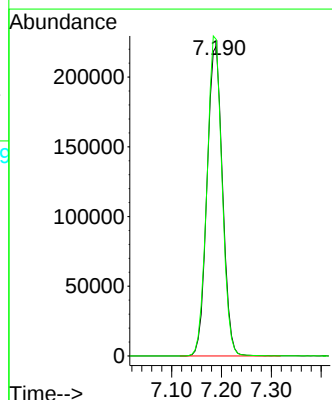
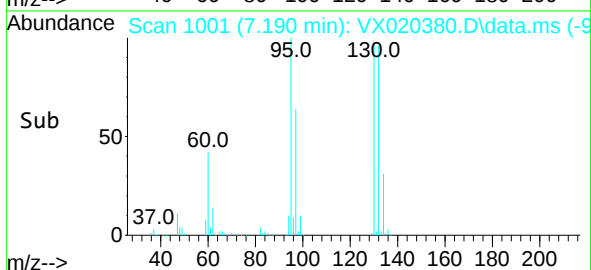
Tgt Ion:117 Resp: 25323
Ion Ratio Lower Upper
117 100
119 5.0 76.2 114.2#
121 0.0 24.8 37.2#

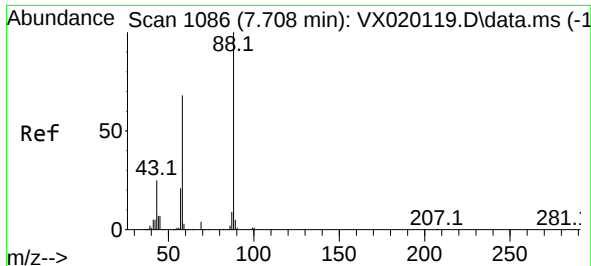


#44
Trichloroethene
Concen: 144.25 ug/l
RT: 7.190 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VX020380.D
Acq: 24 Dec 2020 12:15



Tgt Ion:130 Resp: 479172
Ion Ratio Lower Upper
130 100
95 102.1 0.0 198.0

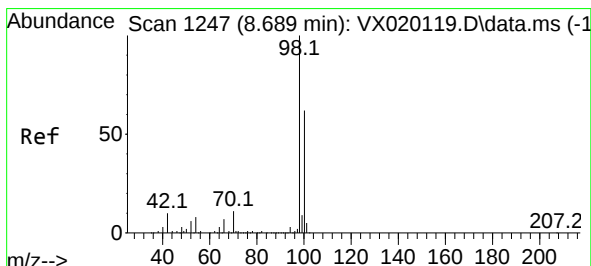
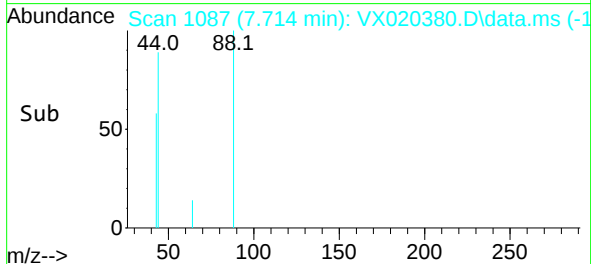
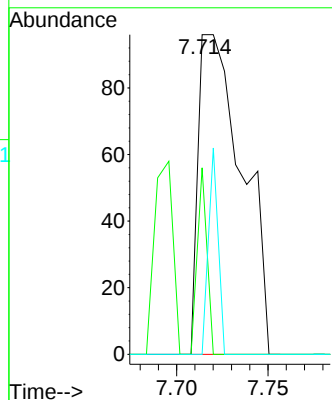
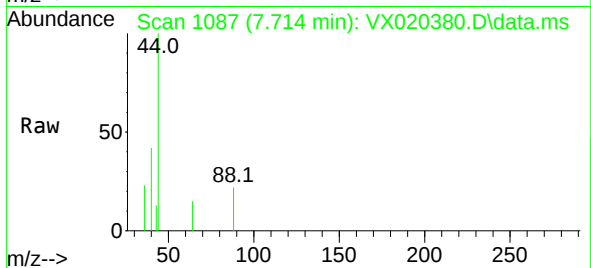




#49
1,4-Dioxane
Concen: 2.07 ug/l
RT: 7.714 min Scan# 1087
Delta R.T. 0.006 min
Lab File: VX020380.D
Acq: 24 Dec 2020 12:15

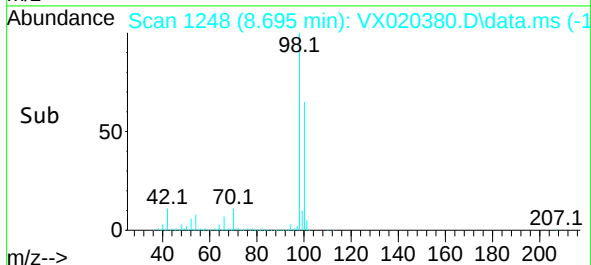
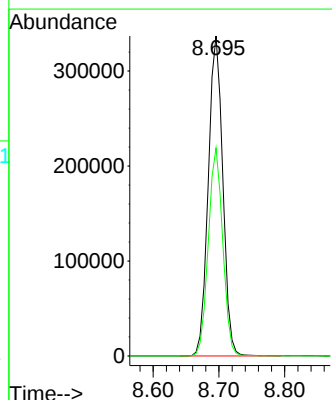
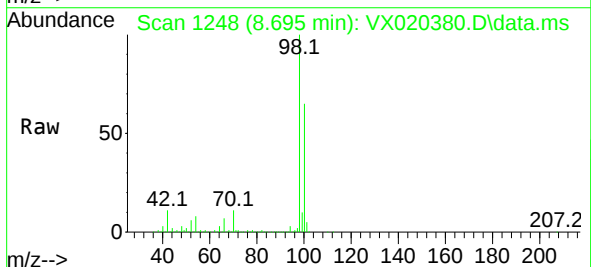
Instrument :
MSVOA_X
ClientSampleId :

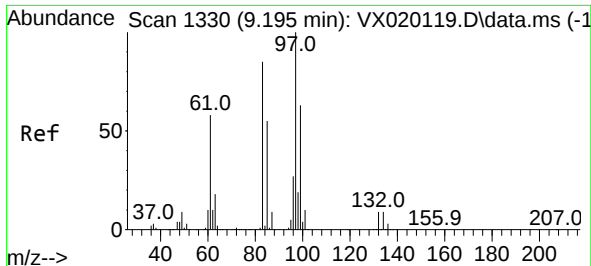
Tgt Ion: 88 Resp: 161
Ion Ratio Lower Upper
88 100
43 12.4 23.2 34.8#
58 14.3 55.0 82.4#



#50
Toluene-d8
Concen: 50.31 ug/l
RT: 8.695 min Scan# 1248
Delta R.T. 0.006 min
Lab File: VX020380.D
Acq: 24 Dec 2020 12:15

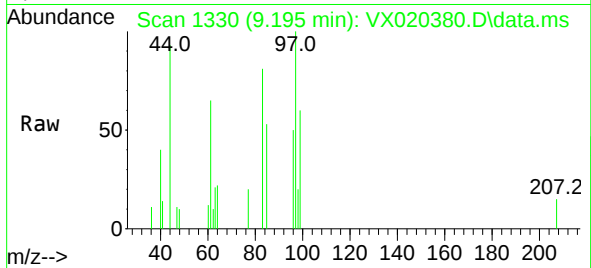
Tgt Ion: 98 Resp: 517431
Ion Ratio Lower Upper
98 100
100 64.6 51.9 77.9



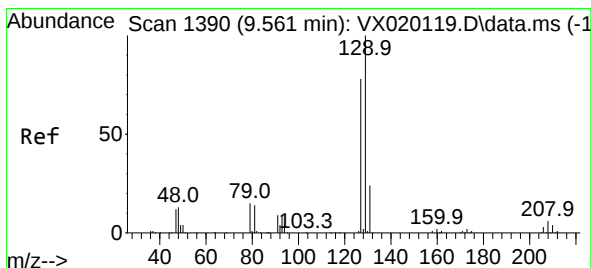
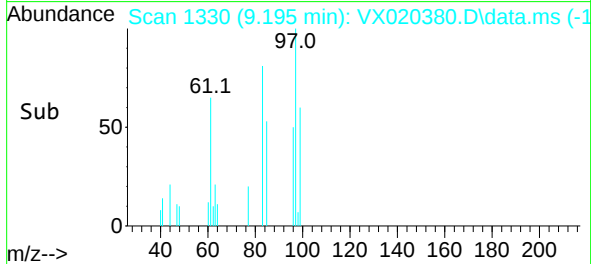
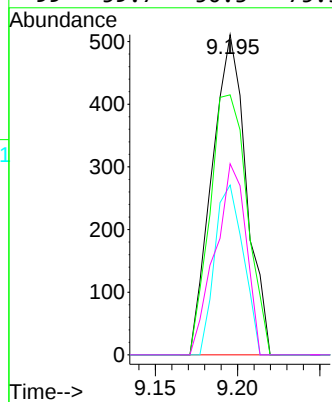


#55
1,1,2-Trichloroethane
Concen: 0.23 ug/l
RT: 9.195 min Scan# 1330
Delta R.T. 0.000 min
Lab File: VX020380.D
Acq: 24 Dec 2020 12:15

Instrument :
MSVOA_X
ClientSampled :

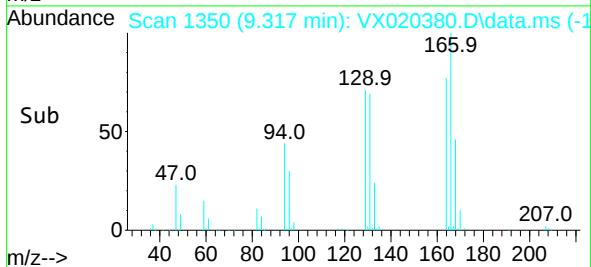
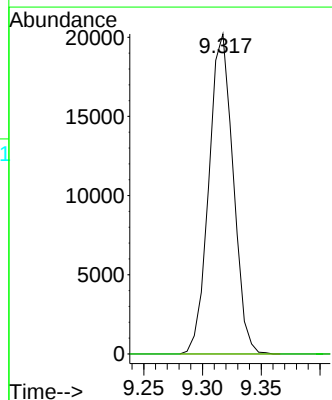
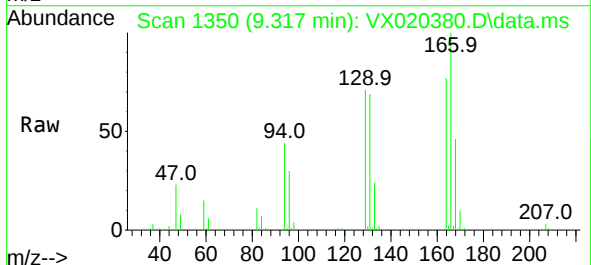


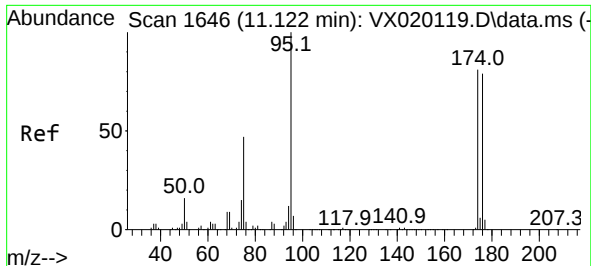
Tgt Ion: 97	Resp: 743
Ion Ratio	Lower Upper
97 100	
83 81.2	69.3 103.9
85 53.0	44.3 66.5
99 59.7	50.3 75.5



#60
Dibromochloromethane
Concen: 9.07 ug/l
RT: 9.317 min Scan# 1350
Delta R.T. -0.244 min
Lab File: VX020380.D
Acq: 24 Dec 2020 12:15

Tgt Ion:129	Resp: 29106		
Ion Ratio	Lower	Upper	
129 100			
127 0.0	38.4	115.2#	

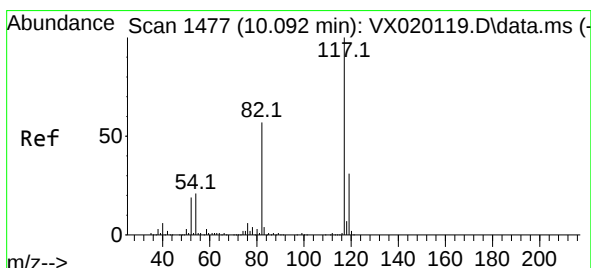
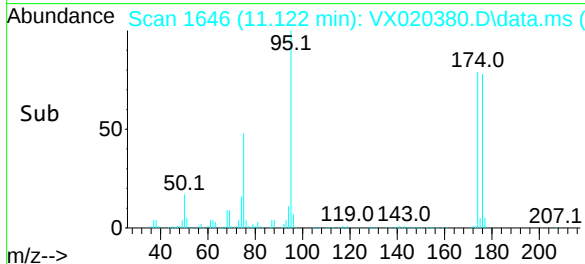
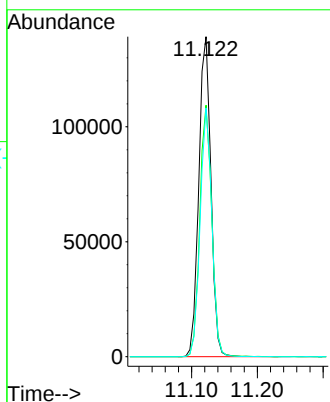
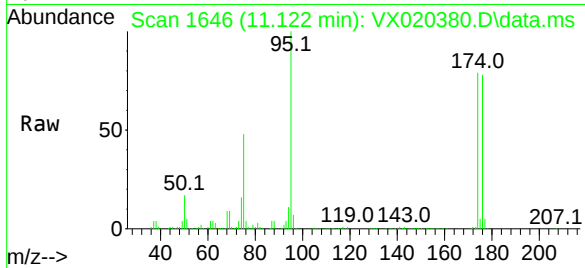




#62
4-Bromofluorobenzene
Concen: 45.21 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. -0.000 min
Lab File: VX020380.D
Acq: 24 Dec 2020 12:15

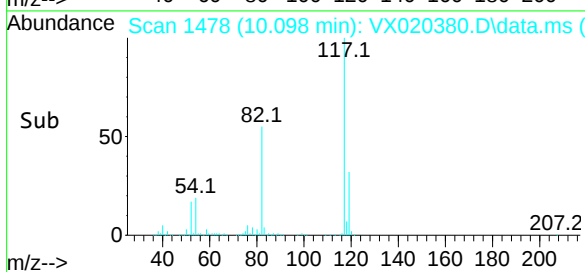
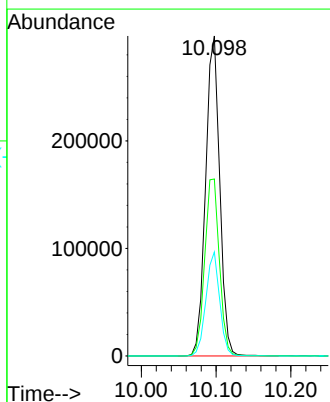
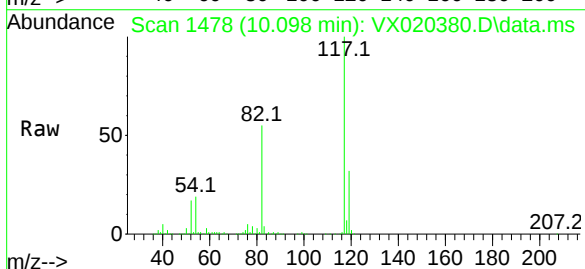
Instrument :
MSVOA_X
ClientSampleId :

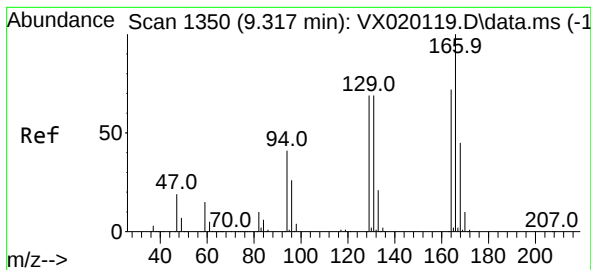
Tgt Ion: 95 Resp: 177977
Ion Ratio Lower Upper
95 100
174 77.8 0.0 154.6
176 75.1 0.0 155.8



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.098 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VX020380.D
Acq: 24 Dec 2020 12:15

Tgt Ion: 117 Resp: 389616
Ion Ratio Lower Upper
117 100
82 55.3 47.4 71.2
119 32.5 26.6 39.8



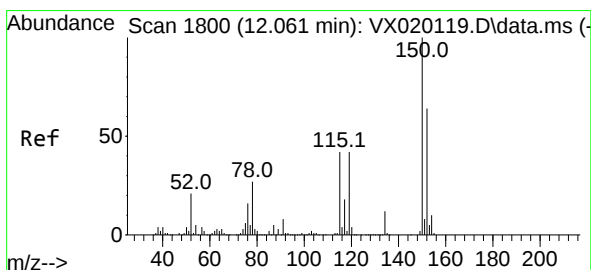
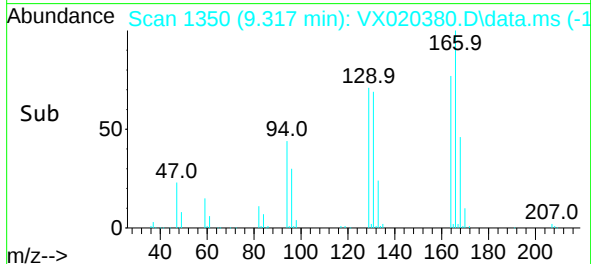
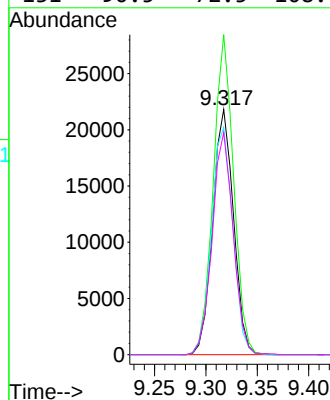
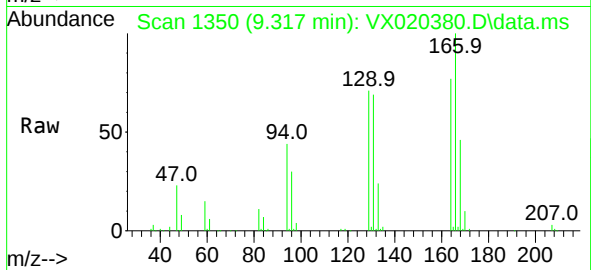


#64
Tetrachloroethene
Concen: 10.51 ug/l
RT: 9.317 min Scan# 1350
Delta R.T. 0.000 min
Lab File: VX020380.D
Acq: 24 Dec 2020 12:15

Instrument :
MSVOA_X
ClientSampled :

Tgt Ion:164 Resp: 30842

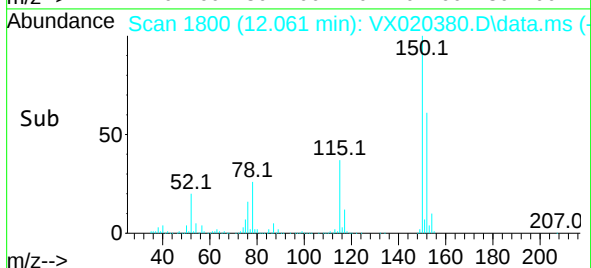
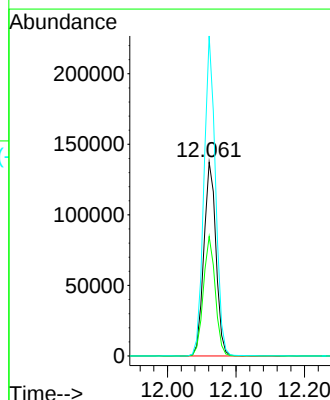
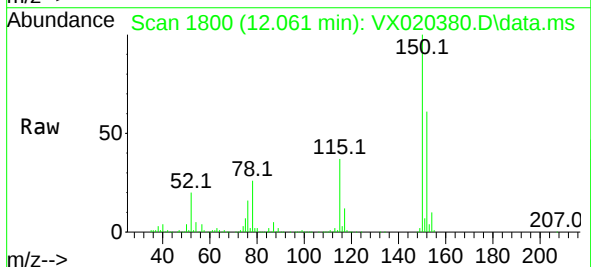
Ion	Ratio	Lower	Upper
164	100		
166	130.5	103.4	155.2
129	92.6	70.8	106.2
131	90.5	72.5	108.7

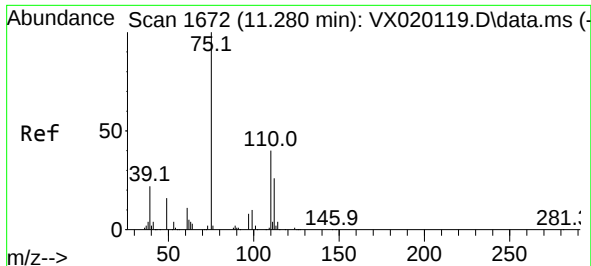


#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.061 min Scan# 1800
Delta R.T. -0.000 min
Lab File: VX020380.D
Acq: 24 Dec 2020 12:15

Tgt Ion:152 Resp: 168822

Ion	Ratio	Lower	Upper
152	100		
115	60.7	41.1	123.3
150	158.1	0.0	349.0

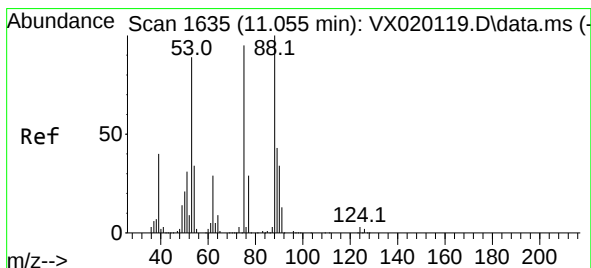
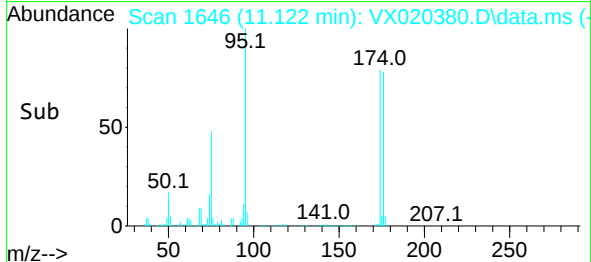
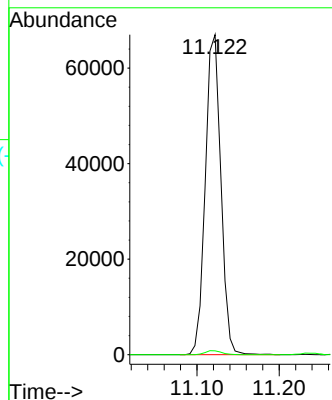
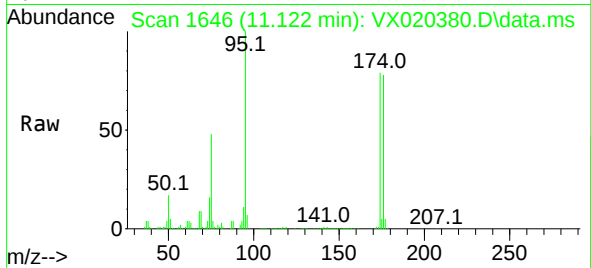




#76
1,2,3-Trichloropropane
Concen: 21.13 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. -0.158 min
Lab File: VX020380.D
Acq: 24 Dec 2020 12:15

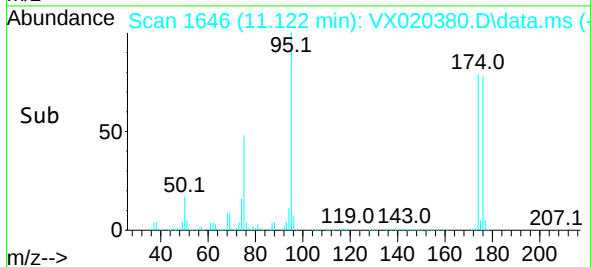
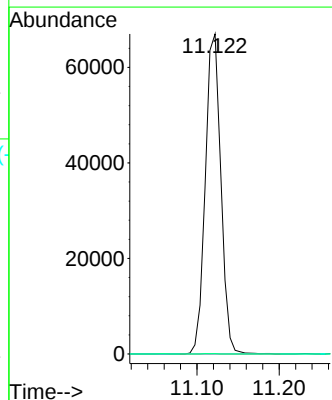
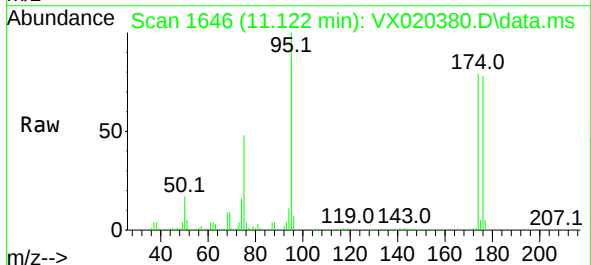
Instrument :
MSVOA_X
ClientSampled :

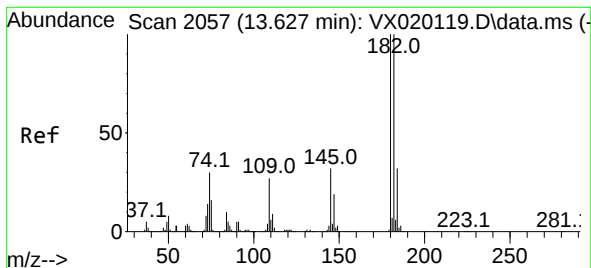
Tgt Ion: 75 Resp: 87863
Ion Ratio Lower Upper
75 100
77 1.3 19.1 57.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 62.68 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. 0.067 min
Lab File: VX020380.D
Acq: 24 Dec 2020 12:15

Tgt Ion: 75 Resp: 87863
Ion Ratio Lower Upper
75 100
53 0.1 74.5 111.7#
89 0.0 37.9 56.9#

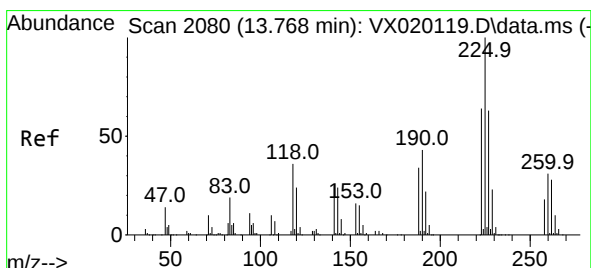
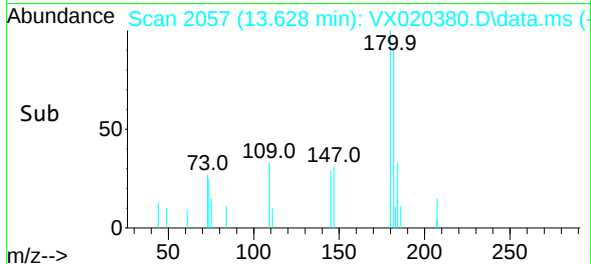
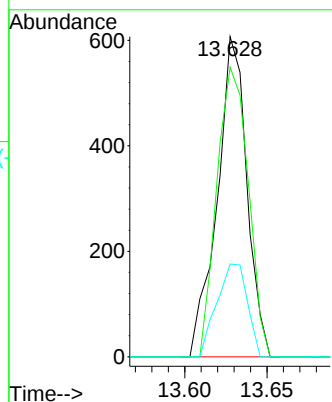
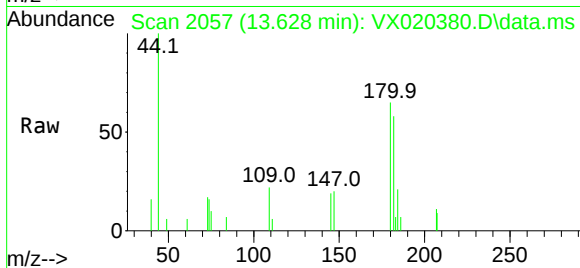




#93
1,2,4-Trichlorobenzene
Concen: 0.21 ug/l
RT: 13.628 min Scan# 2057
Delta R.T. 0.001 min
Lab File: VX020380.D
Acq: 24 Dec 2020 12:15

Instrument :
MSVOA_X
ClientSampled :

Tgt Ion:180	Resp:	761
Ion Ratio	Lower	Upper
180	100	
182	95.4	47.7 143.1
145	29.7	15.0 45.0



#94
Hexachlorobutadiene
Concen: 2.85 ug/l
RT: 13.762 min Scan# 2079
Delta R.T. -0.006 min
Lab File: VX020380.D
Acq: 24 Dec 2020 12:15

Tgt Ion:225	Resp:	335
Ion Ratio	Lower	Upper
225	100	
223	60.9	31.1 93.2
227	65.7	31.6 95.0

