

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122220\
 Data File : VX020322.D
 Acq On : 22 Dec 2020 23:16
 Operator : JC/MD
 Sample : L5123-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW202D-20201213

Quant Time: Dec 23 05:04:20 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)

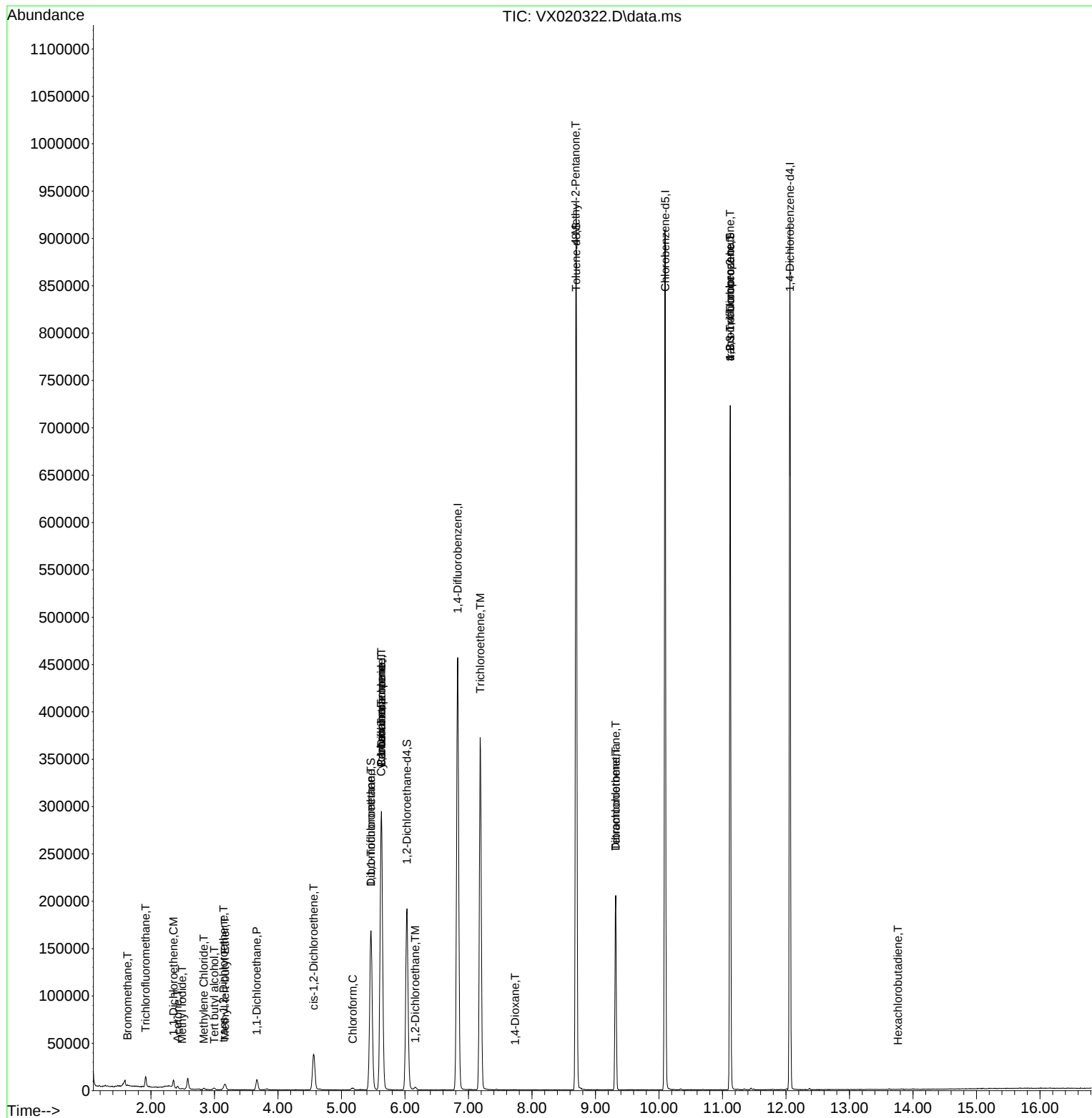
Internal Standards						
1) Pentafluorobenzene	5.629	168	282079	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.830	114	468146	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.098	117	423408	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.061	152	182037	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.032	65	179396	47.45	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	94.90%		
35) Dibromofluoromethane	5.465	113	145658	48.64	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	97.28%		
50) Toluene-d8	8.696	98	559408	48.53	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	97.06%		
62) 4-Bromofluorobenzene	11.122	95	199010	45.11	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	90.22%		
Target Compounds					Qvalue	
5) Bromomethane	1.630	94	691	0.56	ug/l #	71
7) Trichlorofluoromethane	1.916	101	6787	1.36	ug/l	89
10) Methyl Iodide	2.489	142	589	3.43	ug/l #	94
11) Tert butyl alcohol	2.995	59	1235	1.46	ug/l #	73
12) 1,1-Dichloroethene	2.355	96	2802	0.97	ug/l	98
16) Acetone	2.416	43	2428	1.41	ug/l	97
19) Methyl tert-butyl Ether	3.166	73	6386	0.59	ug/l	99
20) Methylene Chloride	2.831	84	799	0.21	ug/l #	78
21) trans-1,2-Dichloroethene	3.142	96	718	0.21	ug/l	88
24) 1,1-Dichloroethane	3.666	63	12106	1.97	ug/l	98
27) cis-1,2-Dichloroethene	4.562	96	25395	6.44	ug/l	91
30) Chloroform	5.178	83	2682	0.43	ug/l	88
31) Cyclohexane	5.623	56	5745	1.10	ug/l #	1
32) 1,1,1-Trichloroethane	5.465	97	1525	0.29	ug/l #	39
36) 1,1-Dichloropropene	5.629	75	21662	4.68	ug/l #	48
38) Carbon Tetrachloride	5.629	117	27044	6.15	ug/l #	17
42) 1,2-Dichloroethane	6.160	62	2827	0.57	ug/l	96
44) Trichloroethene	7.184	130	145451	39.07	ug/l	98
49) 1,4-Dioxane	7.732	88	157	1.80	ug/l #	71
51) 4-Methyl-2-Pentanone	8.690	43	2268	0.48	ug/l #	1
60) Dibromochloromethane	9.318	129	38032	10.57	ug/l #	11
64) Tetrachloroethene	9.318	164	40041	12.55	ug/l	96
76) 1,2,3-Trichloropropane	11.122	75	96971	21.63	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.122	75	96971	64.16	ug/l #	12
94) Hexachlorobutadiene	13.762	225	106	2.70	ug/l #	43

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

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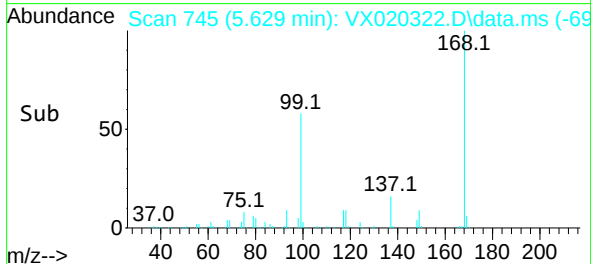
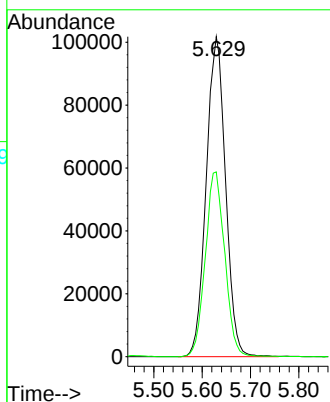
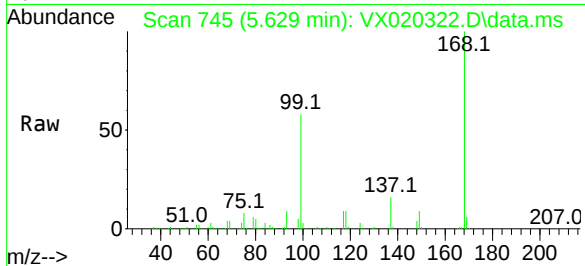




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 745
Delta R.T. 0.012 min
Lab File: VX020322.D
Acq: 22 Dec 2020 23:16

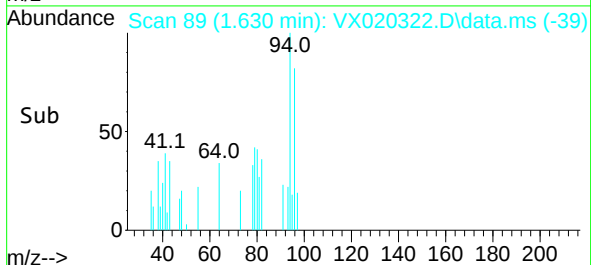
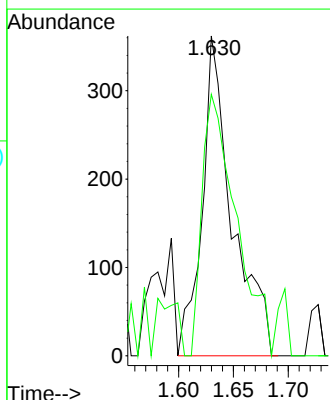
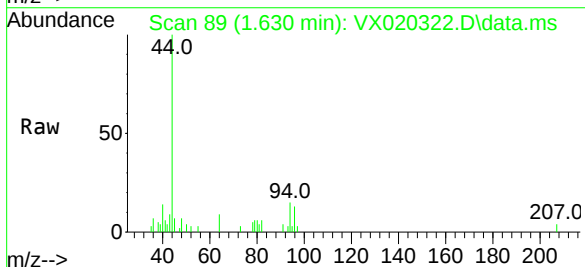
Instrument :
MSVOA_X
ClientSampleId :
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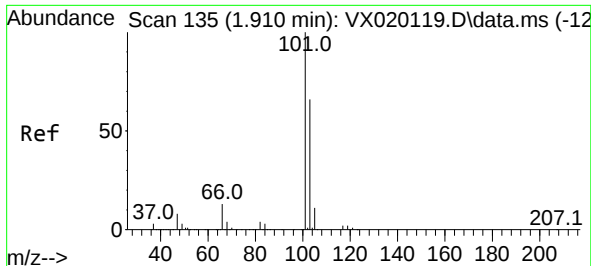
Tgt Ion:168 Resp: 282079
Ion Ratio Lower Upper
168 100
99 57.8 45.8 68.6



#5
Bromomethane
Concen: 0.56 ug/l
RT: 1.630 min Scan# 89
Delta R.T. 0.006 min
Lab File: VX020322.D
Acq: 22 Dec 2020 23:16

Tgt Ion: 94 Resp: 691
Ion Ratio Lower Upper
94 100
96 67.1 76.4 114.6#

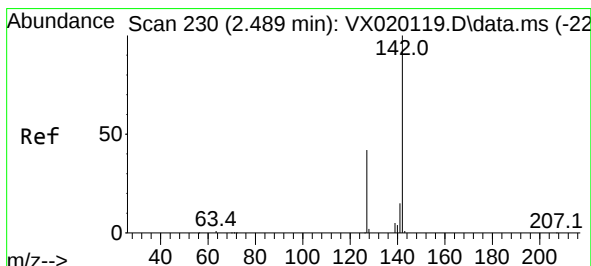
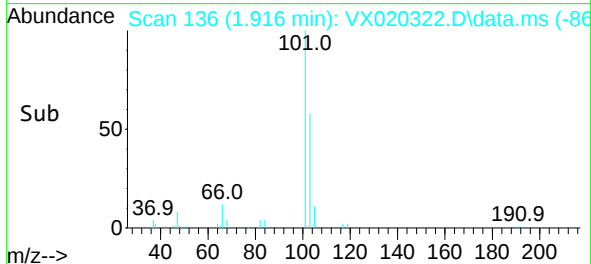
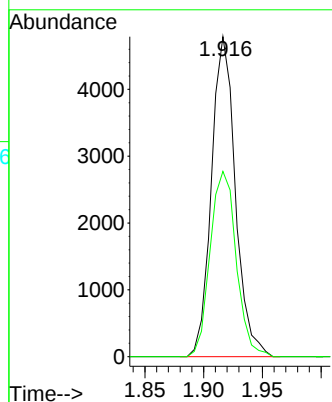
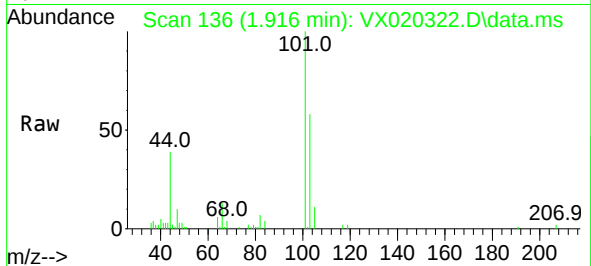




#7
Trichlorofluoromethane
Concen: 1.36 ug/l
RT: 1.916 min Scan# 136
Delta R.T. 0.006 min
Lab File: VX020322.D
Acq: 22 Dec 2020 23:16

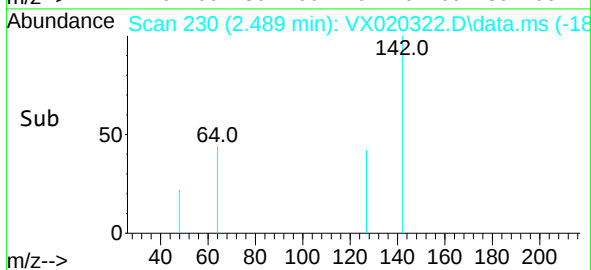
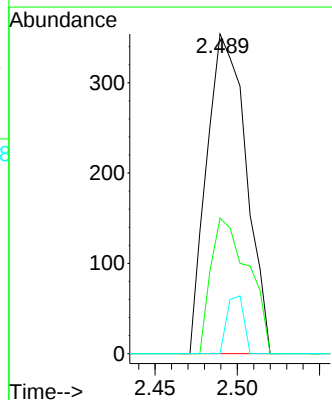
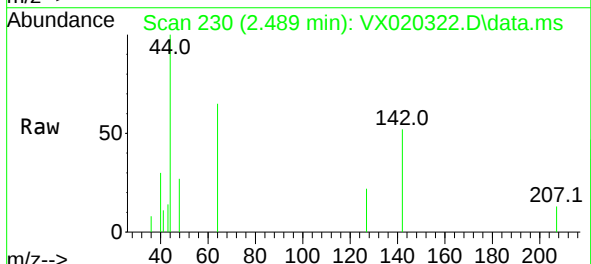
Instrument :
MSVOA_X
ClientSampleId :
MW202D-20201213

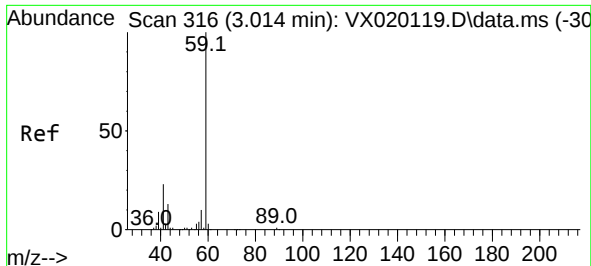
Tgt Ion:101 Resp: 6787
Ion Ratio Lower Upper
101 100
103 57.9 53.2 79.8



#10
Methyl Iodide
Concen: 3.43 ug/l
RT: 2.489 min Scan# 230
Delta R.T. 0.000 min
Lab File: VX020322.D
Acq: 22 Dec 2020 23:16

Tgt Ion:142 Resp: 589
Ion Ratio Lower Upper
142 100
127 40.2 33.3 49.9
141 7.6 11.4 17.0#



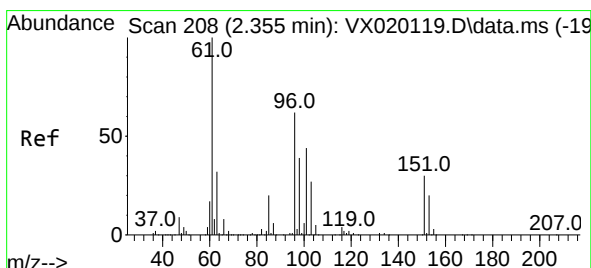
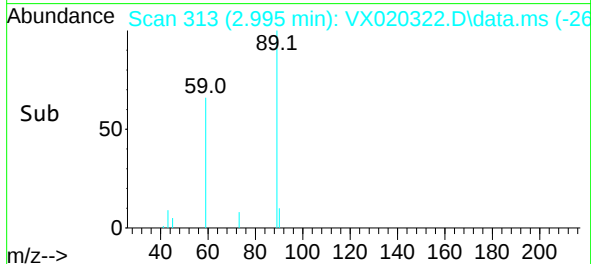
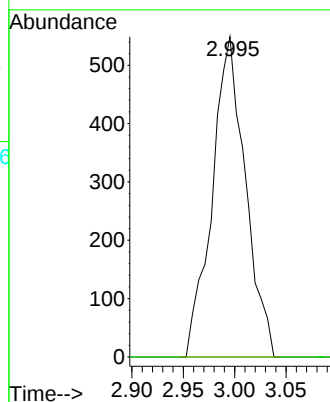
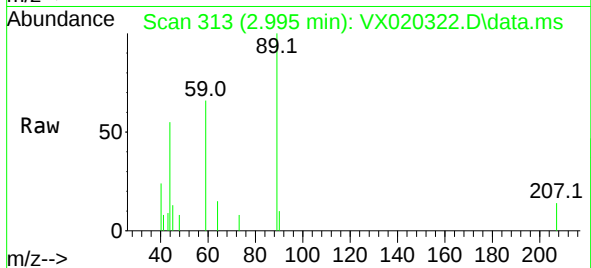


#11

Tert butyl alcohol
Concen: 1.46 ug/l
RT: 2.995 min Scan# 313
Delta R.T. -0.019 min
Lab File: VX020322.D
Acq: 22 Dec 2020 23:16

Instrument :
MSVOA_X
ClientSampleId :
MW202D-20201213

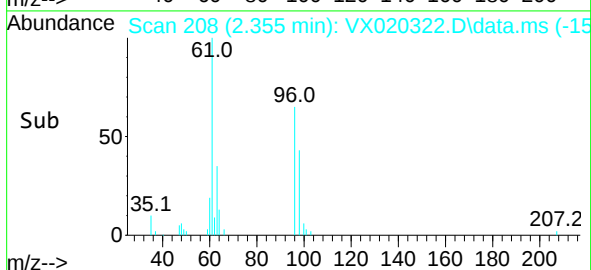
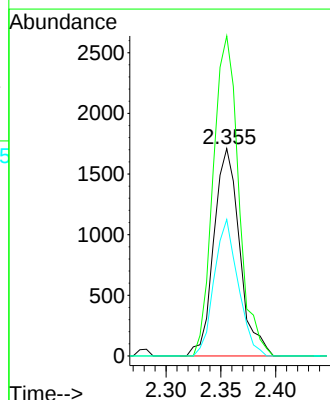
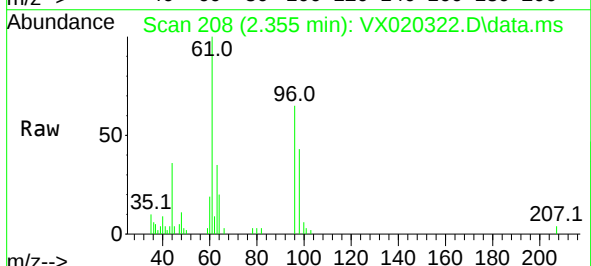
Tgt Ion: 59 Resp: 1235
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#

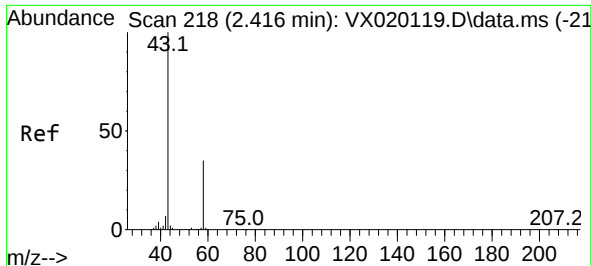


#12

1,1-Dichloroethene
Concen: 0.97 ug/l
RT: 2.355 min Scan# 208
Delta R.T. 0.000 min
Lab File: VX020322.D
Acq: 22 Dec 2020 23:16

Tgt Ion: 96 Resp: 2802
Ion Ratio Lower Upper
96 100
61 154.3 124.6 187.0
98 65.8 50.6 76.0

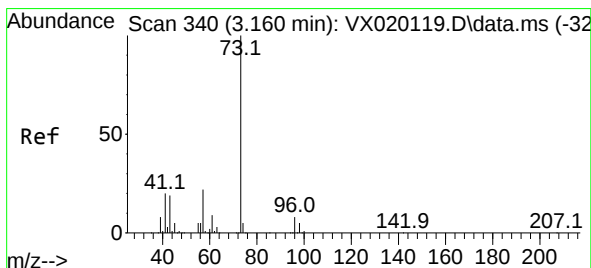
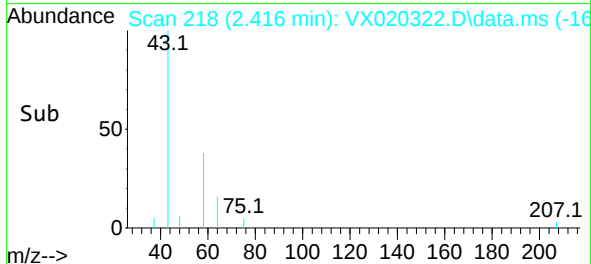
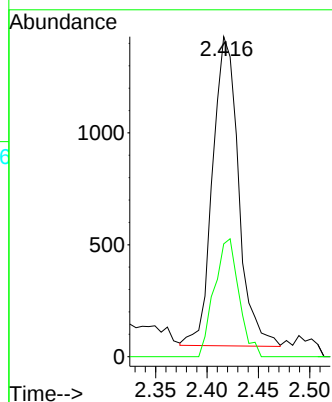
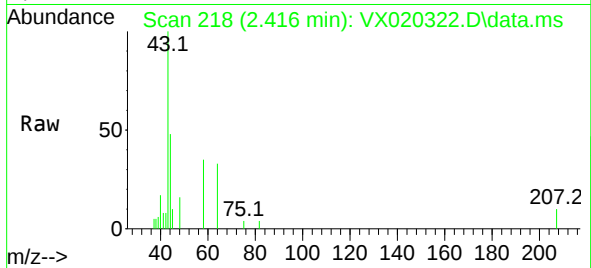




#16
Acetone
Concen: 1.41 ug/l
RT: 2.416 min Scan# 218
Delta R.T. 0.000 min
Lab File: VX020322.D
Acq: 22 Dec 2020 23:16

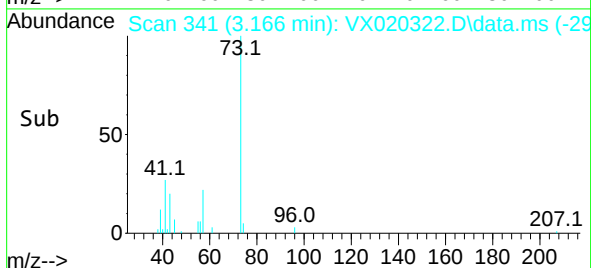
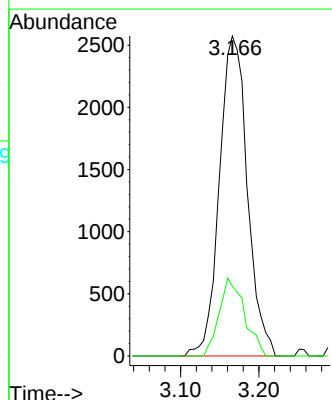
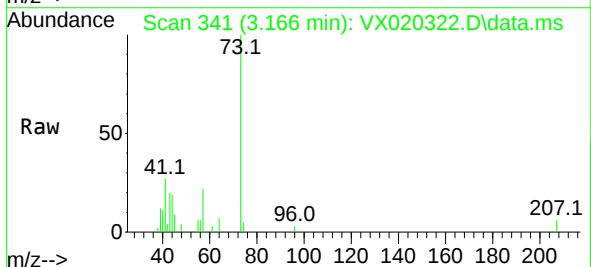
Instrument :
MSVOA_X
ClientSampleId :
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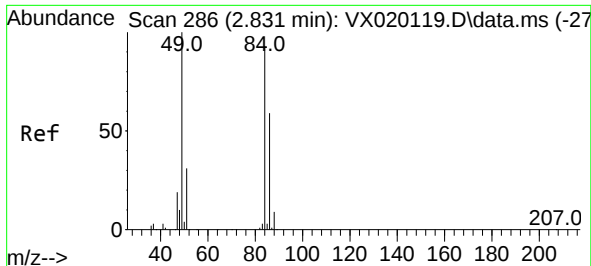
Tgt Ion: 43 Resp: 2428
Ion Ratio Lower Upper
43 100
58 36.5 27.8 41.8



#19
Methyl tert-butyl Ether
Concen: 0.59 ug/l
RT: 3.166 min Scan# 341
Delta R.T. 0.006 min
Lab File: VX020322.D
Acq: 22 Dec 2020 23:16

Tgt Ion: 73 Resp: 6386
Ion Ratio Lower Upper
73 100
57 21.9 17.1 25.7

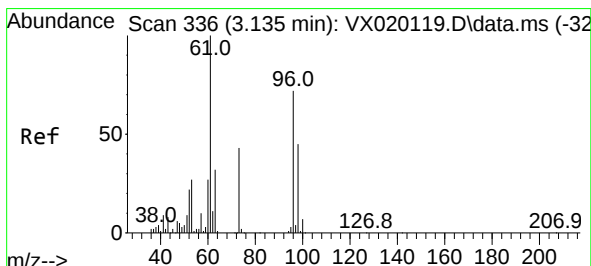
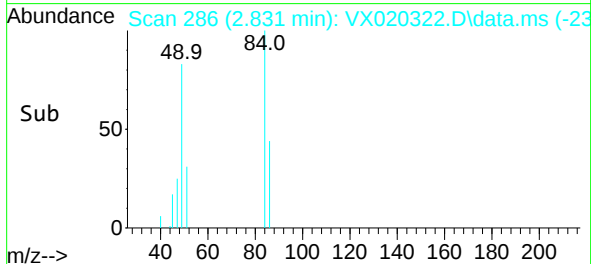
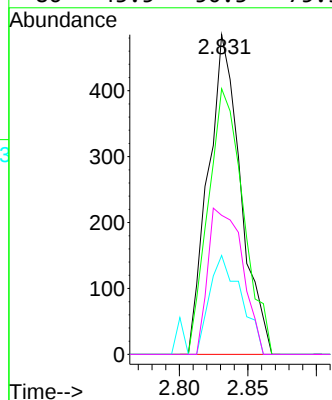
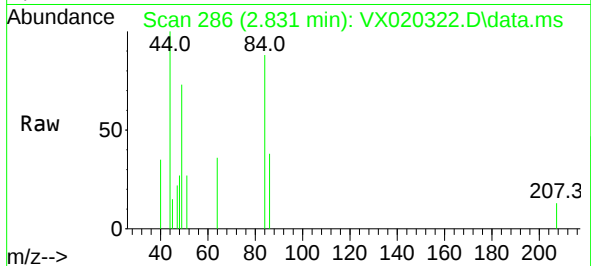




#20
Methylene Chloride
Concen: 0.21 ug/l
RT: 2.831 min Scan# 286
Delta R.T. -0.000 min
Lab File: VX020322.D
Acq: 22 Dec 2020 23:16

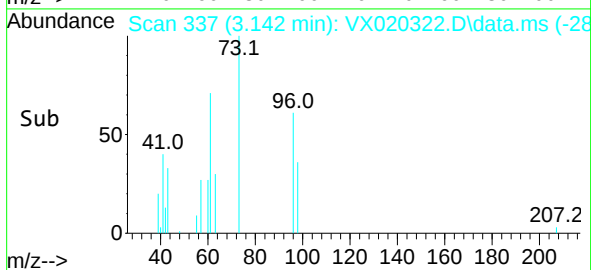
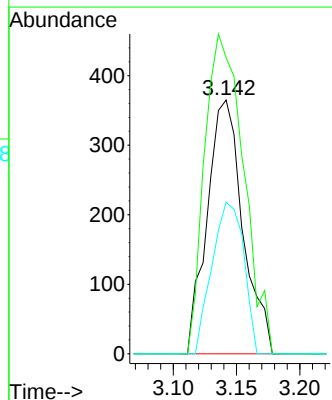
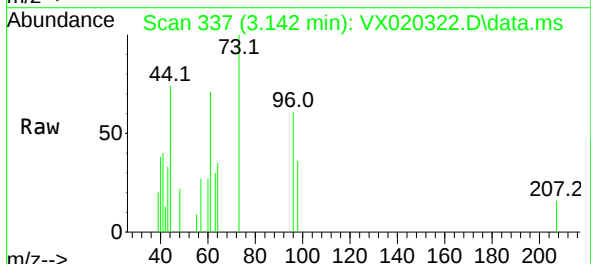
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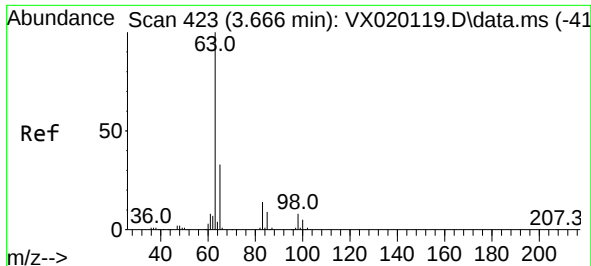
Tgt Ion:	84	Resp:	799
Ion	Ratio	Lower	Upper
84	100		
49	83.1	88.6	132.8#
51	30.9	27.0	40.6
86	43.5	50.3	75.5#



#21
trans-1,2-Dichloroethene
Concen: 0.21 ug/l
RT: 3.142 min Scan# 337
Delta R.T. 0.007 min
Lab File: VX020322.D
Acq: 22 Dec 2020 23:16

Tgt Ion:	96	Resp:	718
Ion	Ratio	Lower	Upper
96	100		
61	116.7	107.7	161.5
98	59.7	50.4	75.6

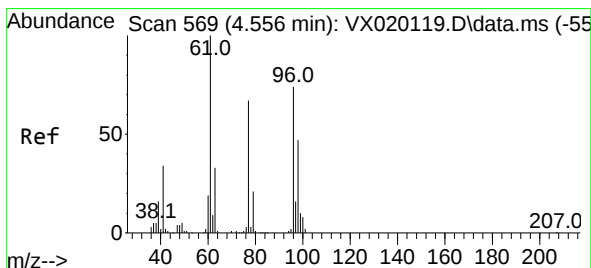
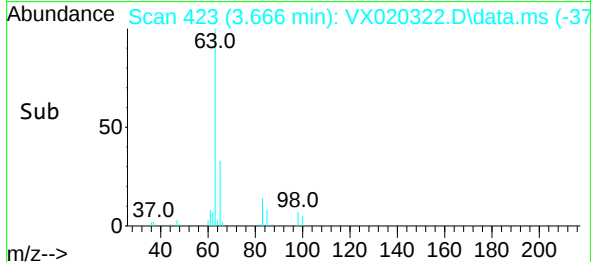
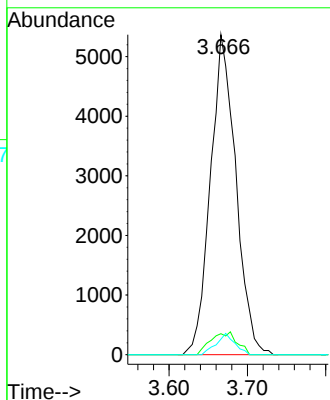
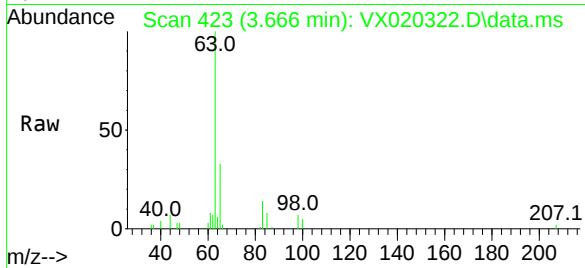




#24
1,1-Dichloroethane
Concen: 1.97 ug/l
RT: 3.666 min Scan# 423
Delta R.T. 0.000 min
Lab File: VX020322.D
Acq: 22 Dec 2020 23:16

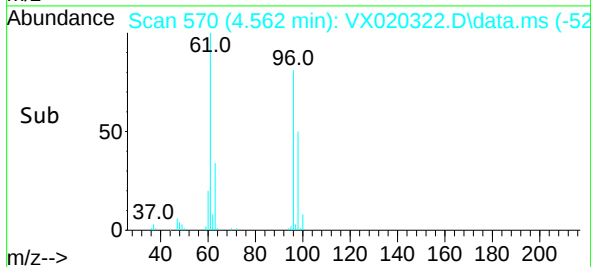
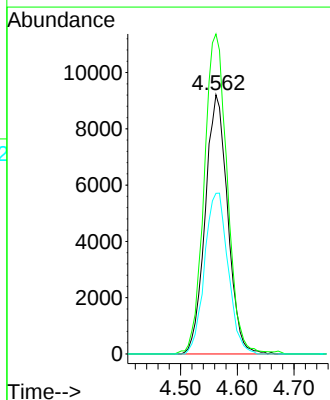
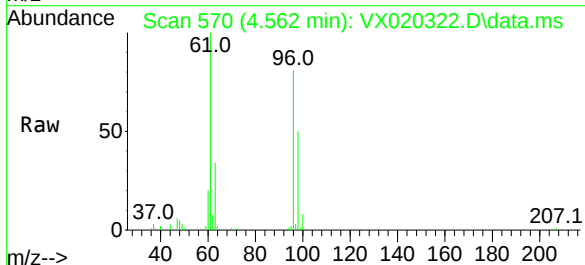
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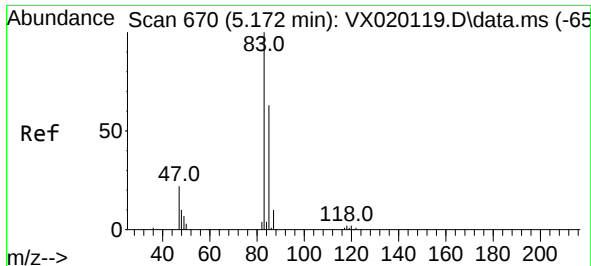
Tgt Ion: 63	Resp: 12106
Ion Ratio	Lower Upper
63 100	
98 6.5	3.8 11.2
100 4.8	2.5 7.5



#27
cis-1,2-Dichloroethene
Concen: 6.44 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.006 min
Lab File: VX020322.D
Acq: 22 Dec 2020 23:16

Tgt Ion: 96	Resp: 25395
Ion Ratio	Lower Upper
96 100	
61 126.5	0.0 285.6
98 64.7	0.0 129.6





#30

Chloroform

Concen: 0.43 ug/l

RT: 5.178 min Scan# 671

Delta R.T. 0.006 min

Lab File: VX020322.D

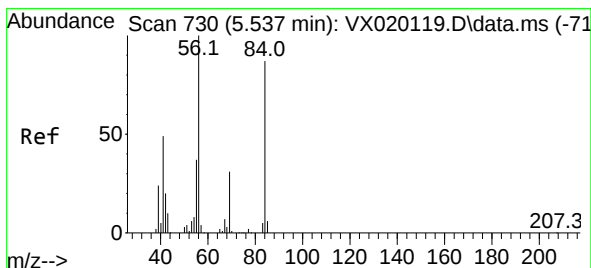
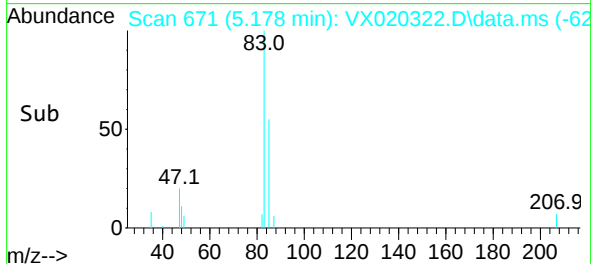
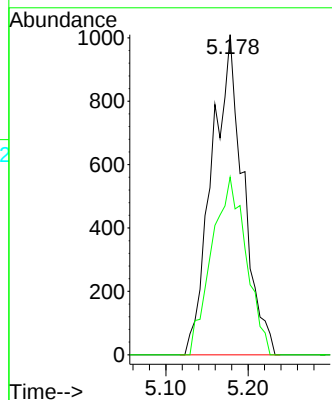
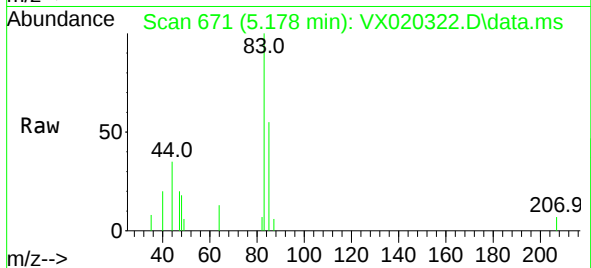
Acq: 22 Dec 2020 23:16

Tgt Ion: 83 Resp: 2682

Ion Ratio Lower Upper

83 100

85 55.4 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: VX020322.D

Acq: 22 Dec 2020 23:16

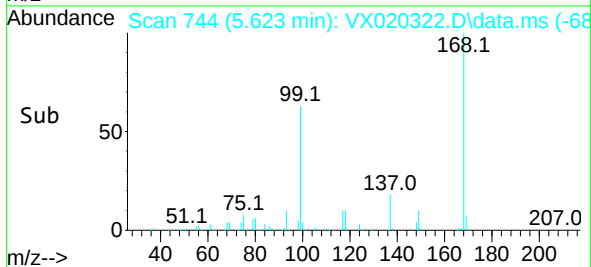
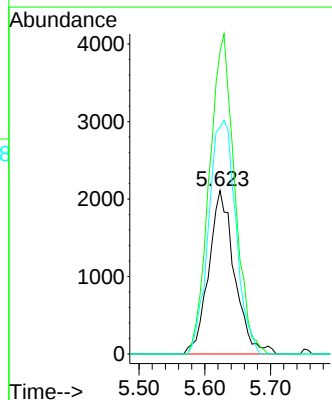
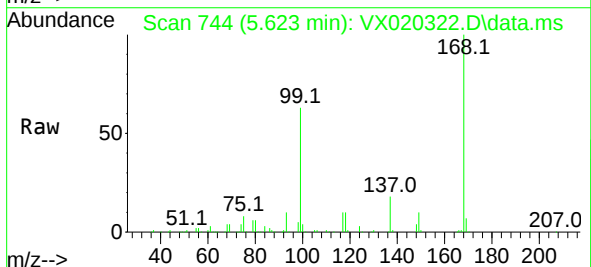
Tgt Ion: 56 Resp: 5745

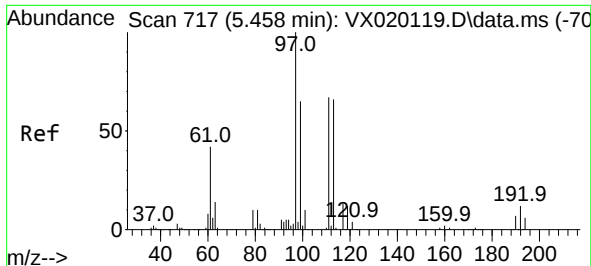
Ion Ratio Lower Upper

56 100

69 185.0 25.3 37.9#

84 138.5 71.4 107.0#

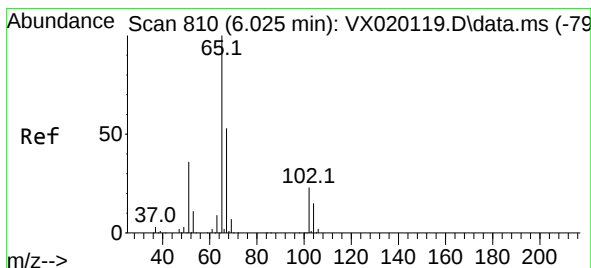
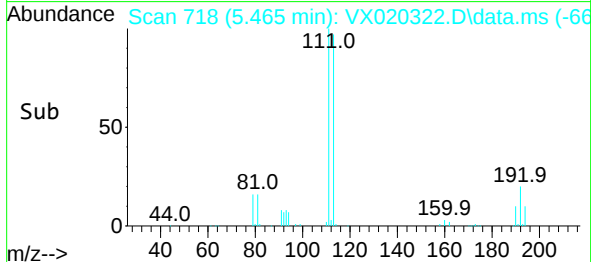
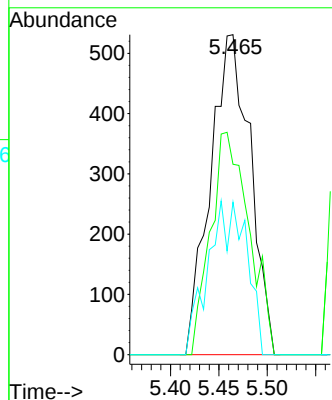
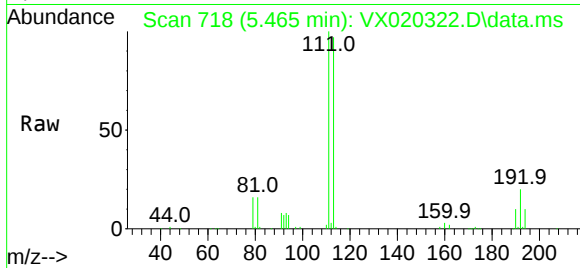




#32
1,1,1-Trichloroethane
Concen: 0.29 ug/l
RT: 5.465 min Scan# 718
Delta R.T. 0.007 min
Lab File: VX020322.D
Acq: 22 Dec 2020 23:16

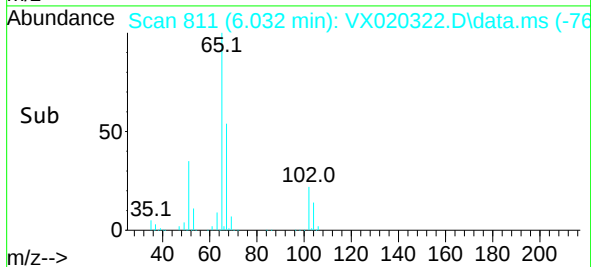
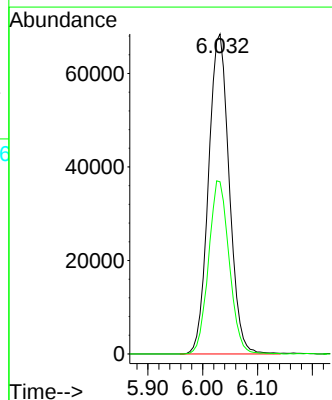
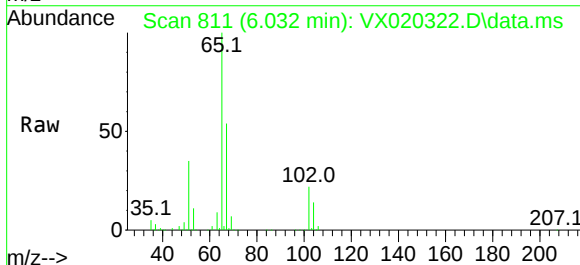
Instrument :
MSVOA_X
ClientSampleId :
MW202D-20201213

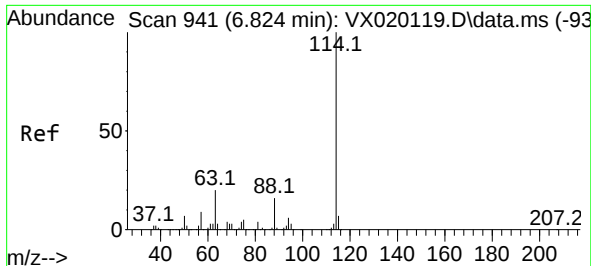
Tgt Ion: 97 Resp: 1525
Ion Ratio Lower Upper
97 100
99 0.0 51.5 77.3#
61 24.9 34.2 51.4#



#33
1,2-Dichloroethane-d4
Concen: 47.45 ug/l
RT: 6.032 min Scan# 811
Delta R.T. 0.006 min
Lab File: VX020322.D
Acq: 22 Dec 2020 23:16

Tgt Ion: 65 Resp: 179396
Ion Ratio Lower Upper
65 100
67 53.9 0.0 105.4

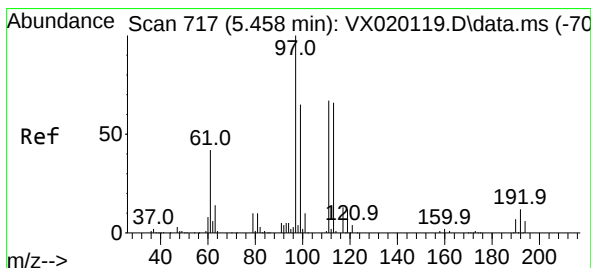
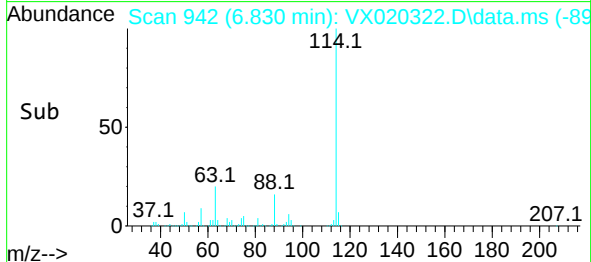
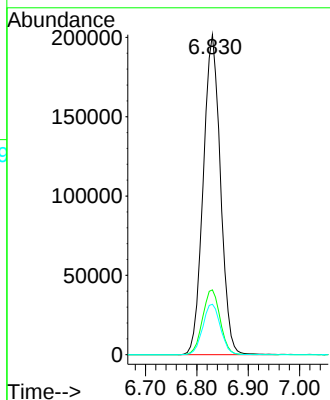
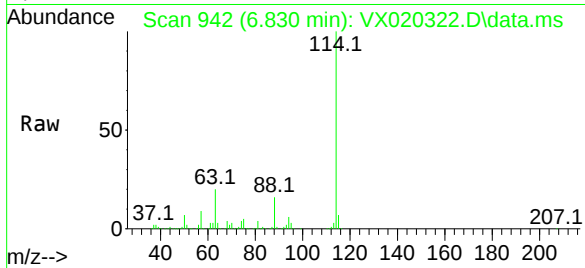




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.830 min Scan# 942
Delta R.T. 0.006 min
Lab File: VX020322.D
Acq: 22 Dec 2020 23:16

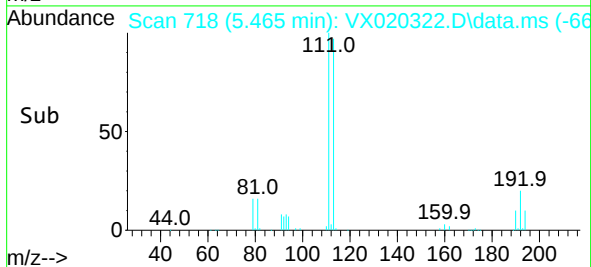
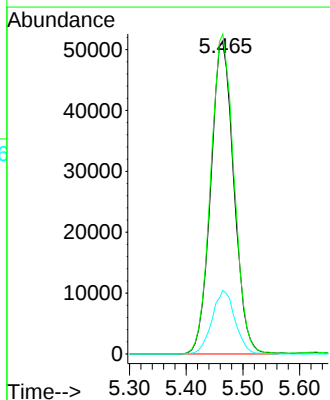
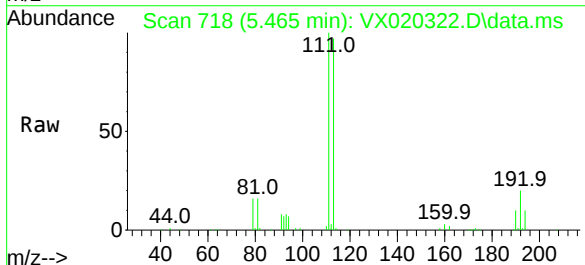
Instrument :
MSVOA_X
ClientSampleId :
MW202D-20201213

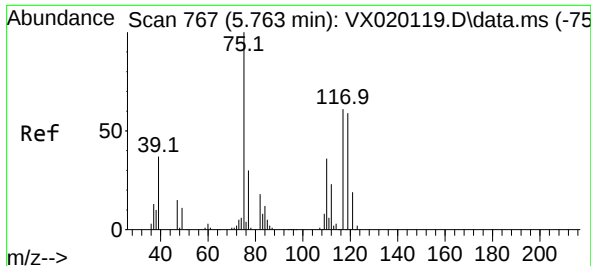
Tgt Ion:114 Resp: 468146
Ion Ratio Lower Upper
114 100
63 20.3 0.0 40.8
88 15.7 0.0 32.8



#35
Dibromofluoromethane
Concen: 48.64 ug/l
RT: 5.465 min Scan# 718
Delta R.T. 0.007 min
Lab File: VX020322.D
Acq: 22 Dec 2020 23:16

Tgt Ion:113 Resp: 145658
Ion Ratio Lower Upper
113 100
111 103.3 81.9 122.9
192 20.2 16.7 25.1

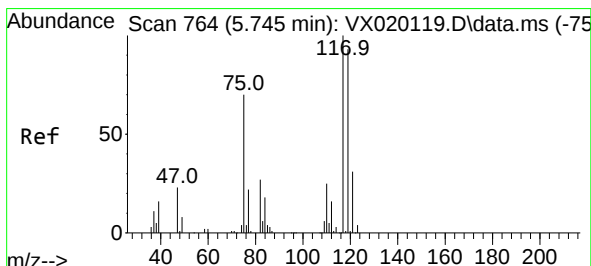
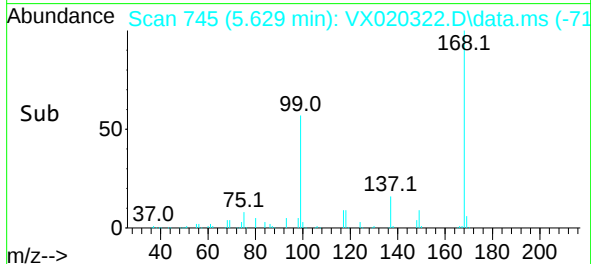
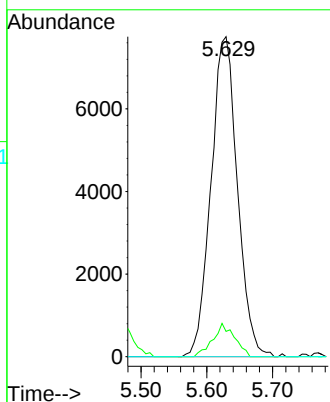
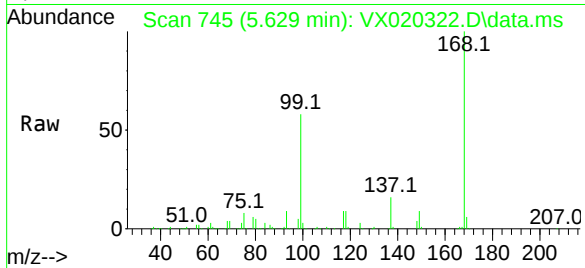




#36
1,1-Dichloropropene
Concen: 4.68 ug/l
RT: 5.629 min Scan# 745
Delta R.T. -0.134 min
Lab File: VX020322.D
Acq: 22 Dec 2020 23:16

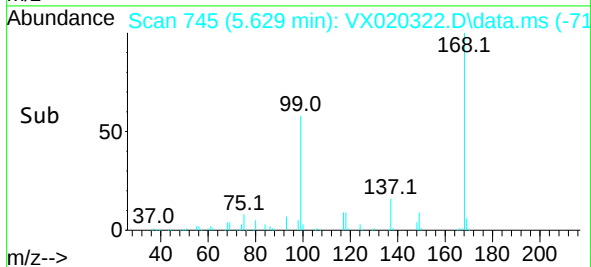
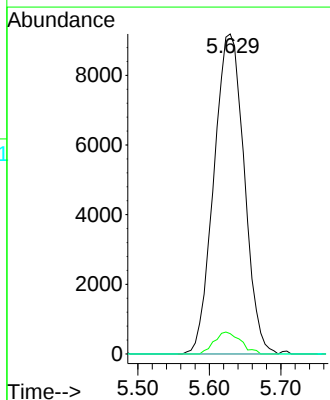
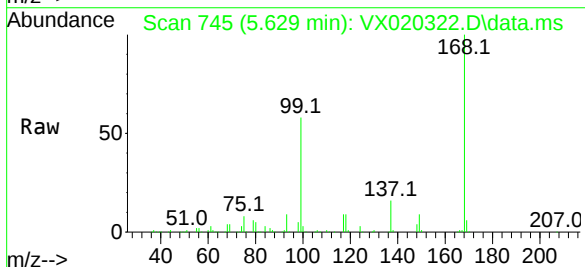
Instrument :
MSVOA_X
ClientSampleId :
MW202D-20201213

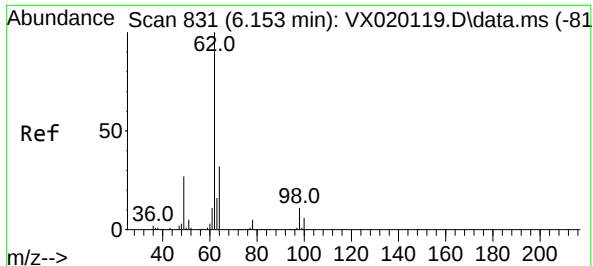
Tgt Ion: 75 Resp: 21662
Ion Ratio Lower Upper
75 100
110 8.5 18.1 54.4#
77 0.0 25.3 37.9#



#38
Carbon Tetrachloride
Concen: 6.15 ug/l
RT: 5.629 min Scan# 745
Delta R.T. -0.116 min
Lab File: VX020322.D
Acq: 22 Dec 2020 23:16

Tgt Ion: 117 Resp: 27044
Ion Ratio Lower Upper
117 100
119 6.3 76.2 114.2#
121 0.0 24.8 37.2#





#42

1,2-Dichloroethane

Concen: 0.57 ug/l

RT: 6.160 min Scan# 832

Delta R.T. 0.007 min

Lab File: VX020322.D

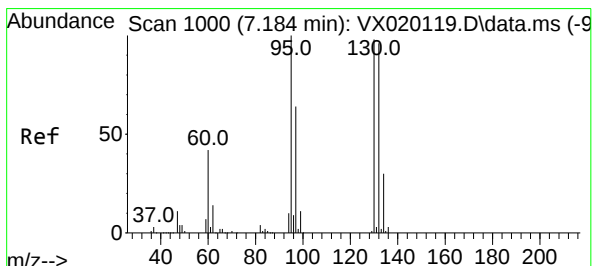
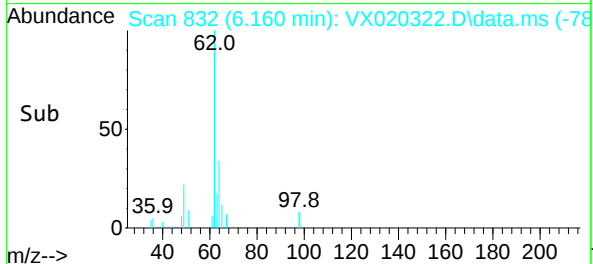
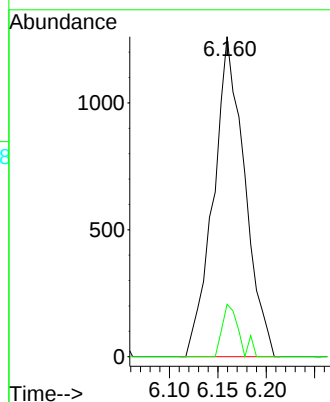
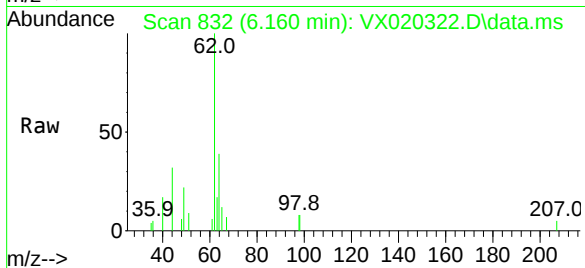
Acq: 22 Dec 2020 23:16

Tgt Ion: 62 Resp: 2827

Ion Ratio Lower Upper

62 100

98 8.7 0.0 20.2



#44

Trichloroethene

Concen: 39.07 ug/l

RT: 7.184 min Scan# 1000

Delta R.T. -0.000 min

Lab File: VX020322.D

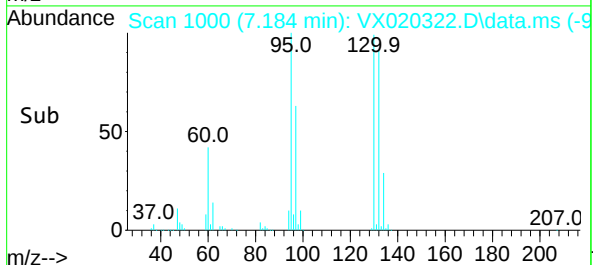
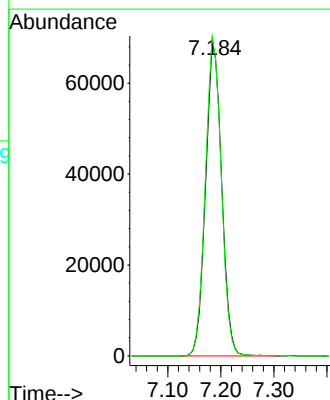
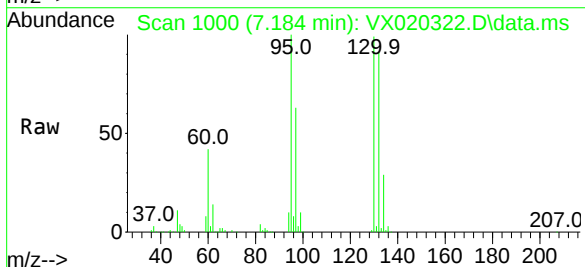
Acq: 22 Dec 2020 23:16

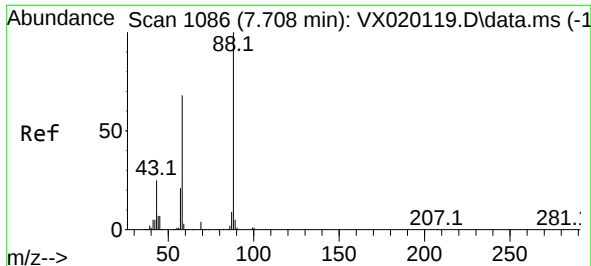
Tgt Ion:130 Resp: 145451

Ion Ratio Lower Upper

130 100

95 101.3 0.0 198.0

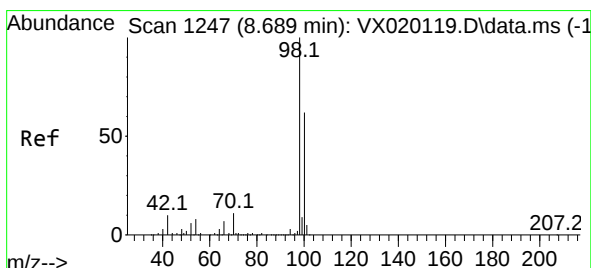
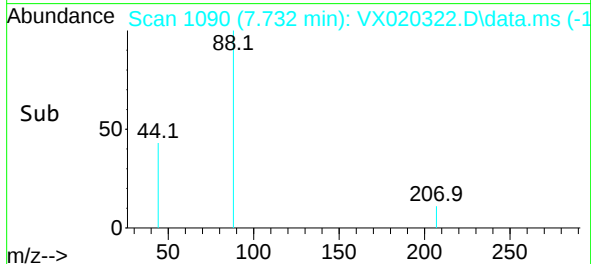
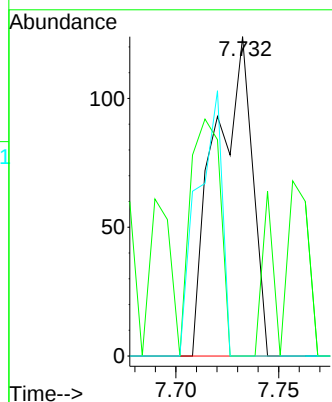
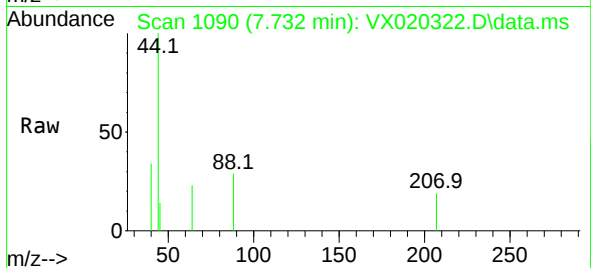




#49
1,4-Dioxane
Concen: 1.80 ug/l
RT: 7.732 min Scan# 1090
Delta R.T. 0.024 min
Lab File: VX020322.D
Acq: 22 Dec 2020 23:16

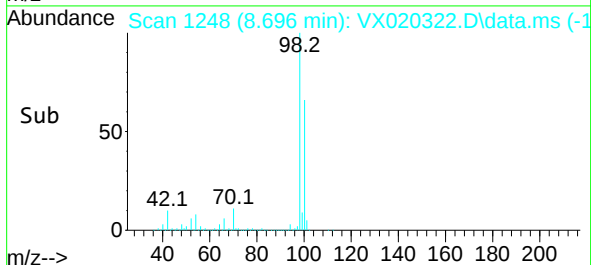
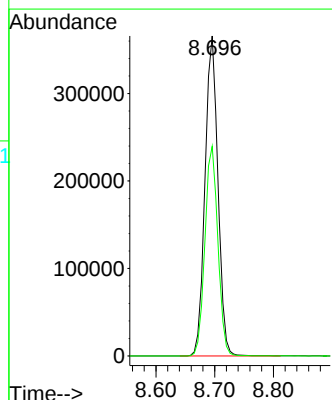
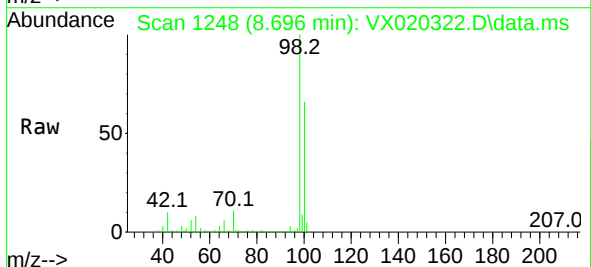
Instrument :
MSVOA_X
ClientSampleId :
MW202D-20201213

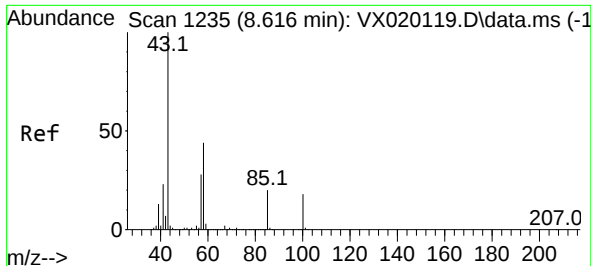
Tgt Ion: 88 Resp: 157
Ion Ratio Lower Upper
88 100
43 59.2 23.2 34.8#
58 54.8 55.0 82.4#



#50
Toluene-d8
Concen: 48.53 ug/l
RT: 8.696 min Scan# 1248
Delta R.T. 0.007 min
Lab File: VX020322.D
Acq: 22 Dec 2020 23:16

Tgt Ion: 98 Resp: 559408
Ion Ratio Lower Upper
98 100
100 65.9 51.9 77.9

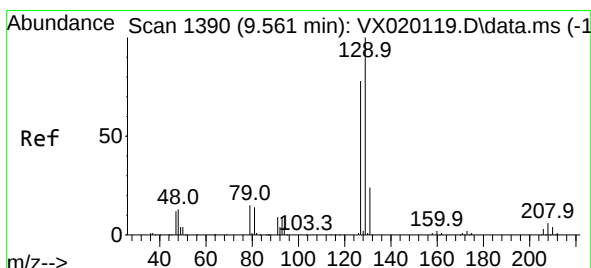
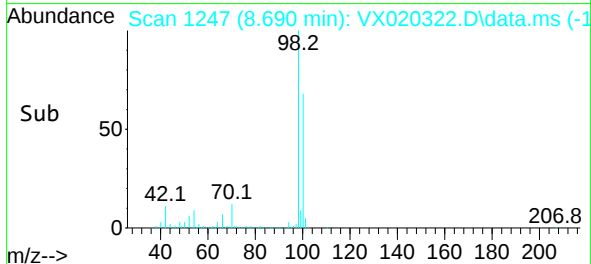
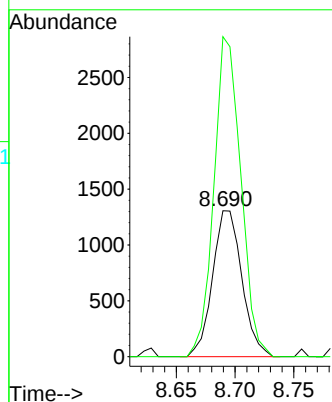
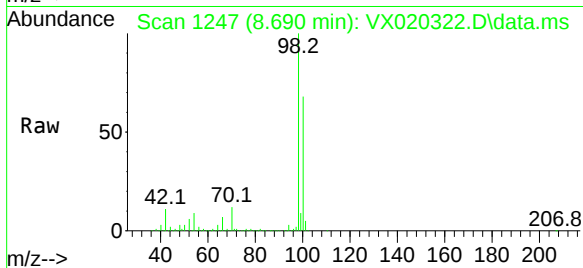




#51
4-Methyl-2-Pentanone
Concen: 0.48 ug/l
RT: 8.690 min Scan# 1247
Delta R.T. 0.074 min
Lab File: VX020322.D
Acq: 22 Dec 2020 23:16

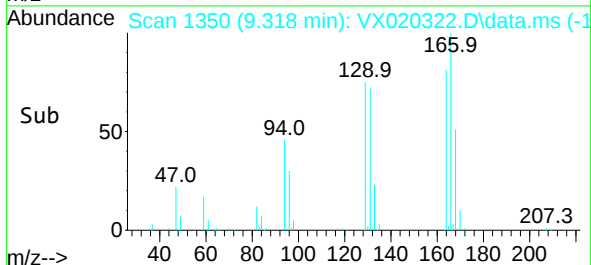
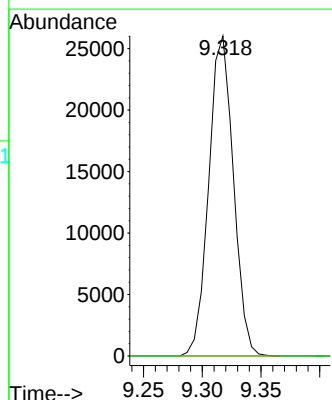
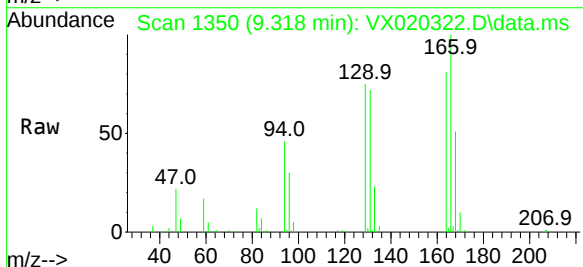
Instrument :
MSVOA_X
ClientSampleId :
MW202D-20201213

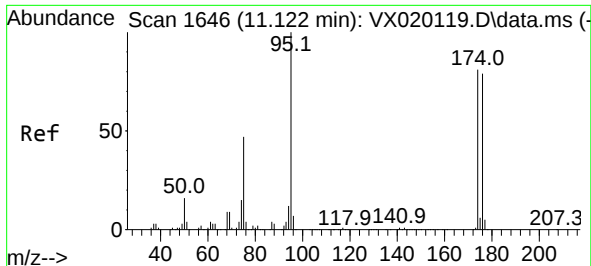
Tgt Ion: 43 Resp: 2268
Ion Ratio Lower Upper
43 100
58 201.6 35.4 53.0#



#60
Dibromochloromethane
Concen: 10.57 ug/l
RT: 9.318 min Scan# 1350
Delta R.T. -0.243 min
Lab File: VX020322.D
Acq: 22 Dec 2020 23:16

Tgt Ion: 129 Resp: 38032
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.2#

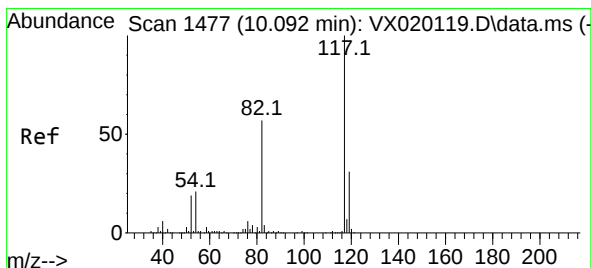
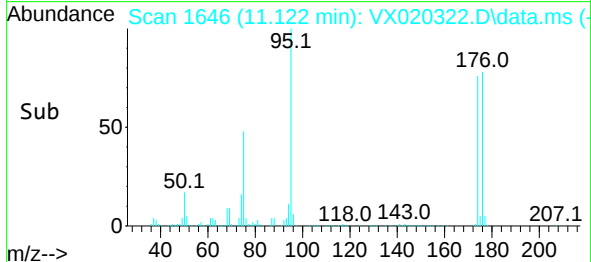
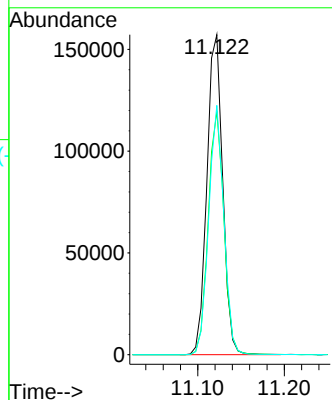
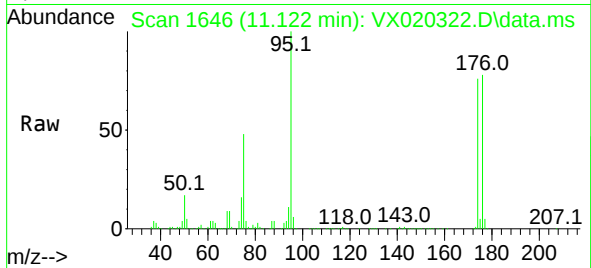




#62
4-Bromofluorobenzene
Concen: 45.11 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. 0.000 min
Lab File: VX020322.D
Acq: 22 Dec 2020 23:16

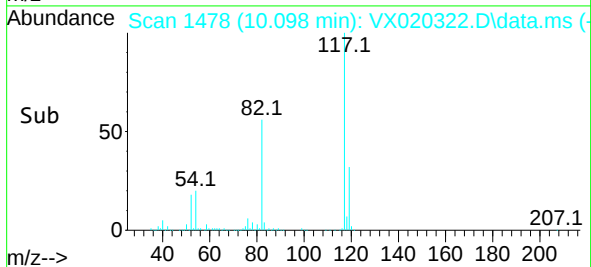
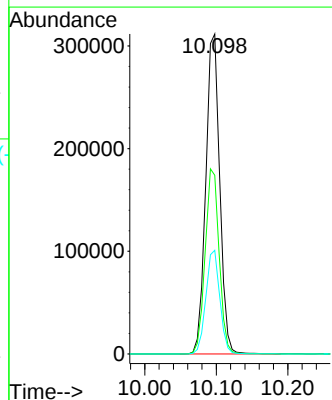
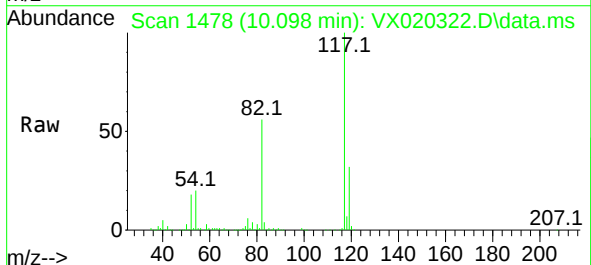
Instrument :
MSVOA_X
ClientSampleId :
MW202D-20201213

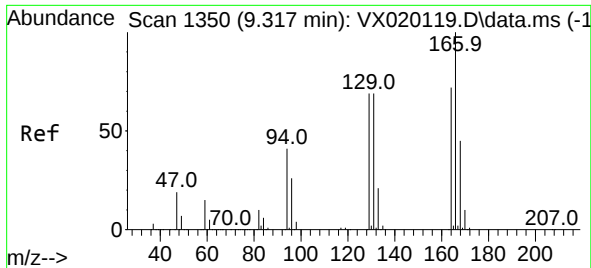
Tgt Ion: 95 Resp: 199010
Ion Ratio Lower Upper
95 100
174 75.4 0.0 154.6
176 74.9 0.0 155.8



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.098 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VX020322.D
Acq: 22 Dec 2020 23:16

Tgt Ion: 117 Resp: 423408
Ion Ratio Lower Upper
117 100
82 55.9 47.4 71.2
119 32.4 26.6 39.8



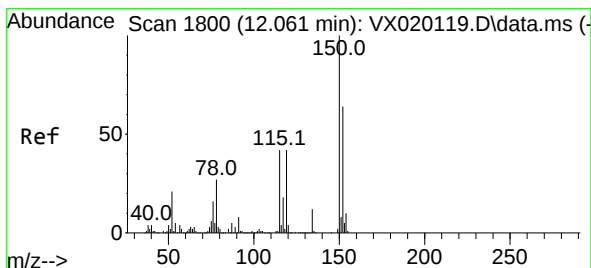
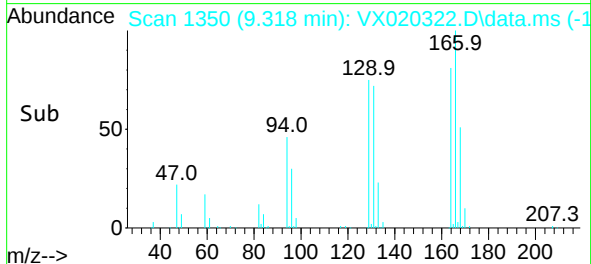
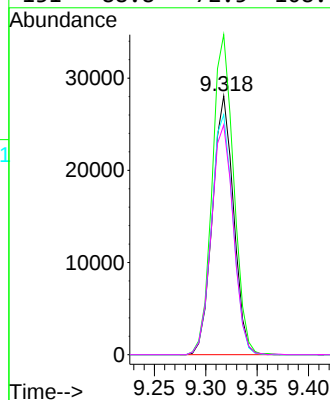
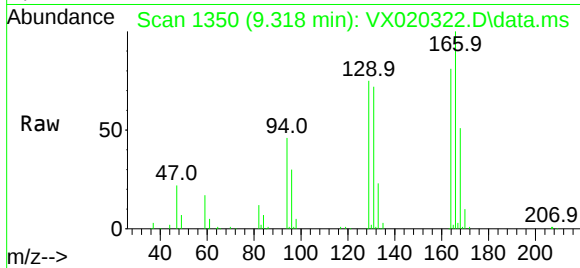


#64
Tetrachloroethene
Concen: 12.55 ug/l
RT: 9.318 min Scan# 1350
Delta R.T. 0.001 min
Lab File: VX020322.D
Acq: 22 Dec 2020 23:16

Instrument :
MSVOA_X
ClientSampleId :
MW202D-20201213

Tgt Ion:164 Resp: 40041

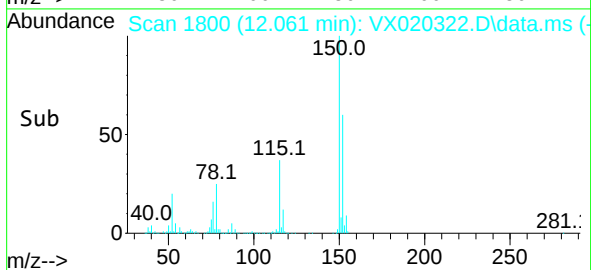
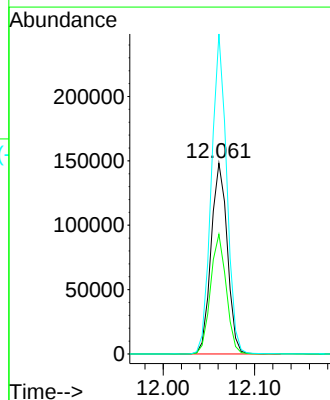
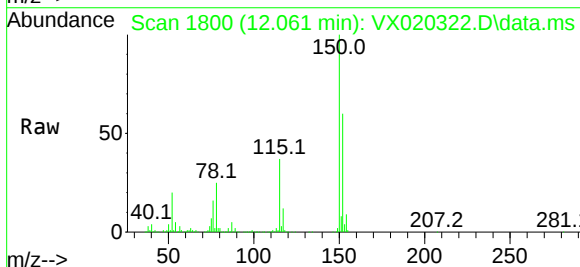
Ion	Ratio	Lower	Upper
164	100		
166	123.7	103.4	155.2
129	92.7	70.8	106.2
131	88.8	72.5	108.7

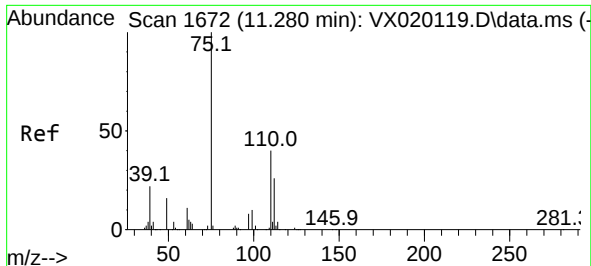


#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.061 min Scan# 1800
Delta R.T. -0.000 min
Lab File: VX020322.D
Acq: 22 Dec 2020 23:16

Tgt Ion:152 Resp: 182037

Ion	Ratio	Lower	Upper
152	100		
115	60.8	41.1	123.3
150	158.6	0.0	349.0

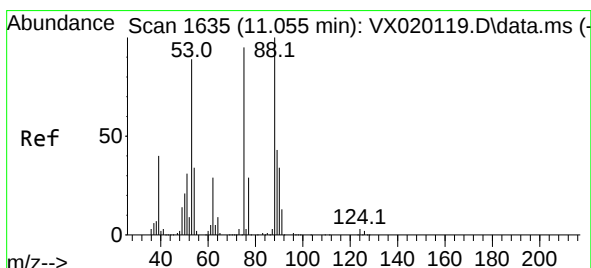
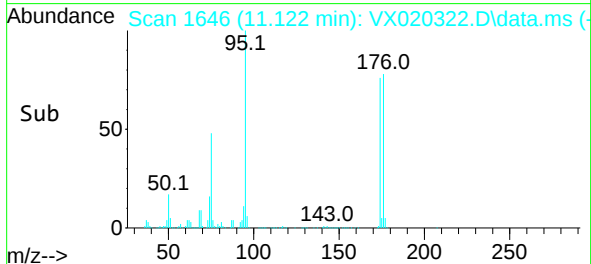
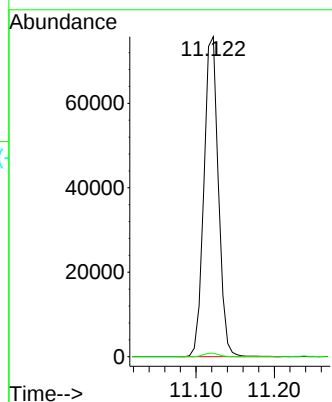
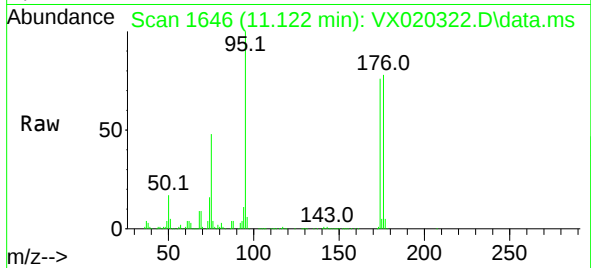




#76
1,2,3-Trichloropropane
Concen: 21.63 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. -0.158 min
Lab File: VX020322.D
Acq: 22 Dec 2020 23:16

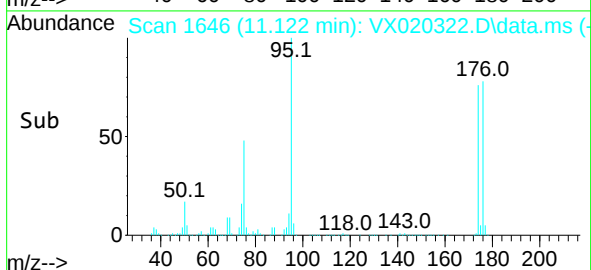
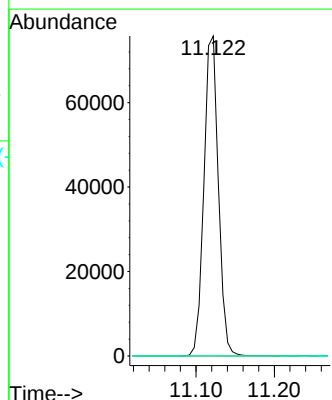
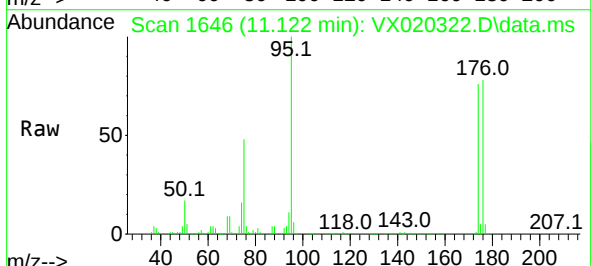
Instrument :
MSVOA_X
ClientSampleId :
MW202D-20201213

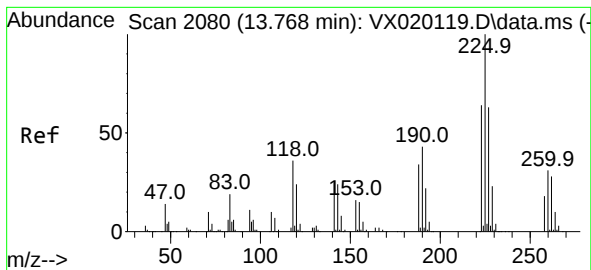
Tgt Ion: 75 Resp: 96971
Ion Ratio Lower Upper
75 100
77 1.2 19.1 57.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 64.16 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. 0.067 min
Lab File: VX020322.D
Acq: 22 Dec 2020 23:16

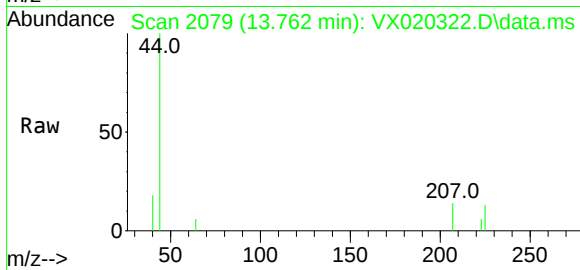
Tgt Ion: 75 Resp: 96971
Ion Ratio Lower Upper
75 100
53 0.1 74.5 111.7#
89 0.0 37.9 56.9#





#94
 Hexachlorobutadiene
 Concen: 2.70 ug/l
 RT: 13.762 min Scan# 2079
 Delta R.T. -0.006 min
 Lab File: VX020322.D
 Acq: 22 Dec 2020 23:16

Instrument :
 MSVOA_X
 ClientSampleId :
 MW202D-20201213



Tgt Ion:225 Resp: 106
 Ion Ratio Lower Upper
 225 100
 223 36.8 31.1 93.2
 227 0.0 31.6 95.0#

