

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122320\
 Data File : VX020338.D
 Acq On : 23 Dec 2020 15:07
 Operator : JC/MD
 Sample : L5124-19
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP05-20201211

Quant Time: Dec 24 00:17:20 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)

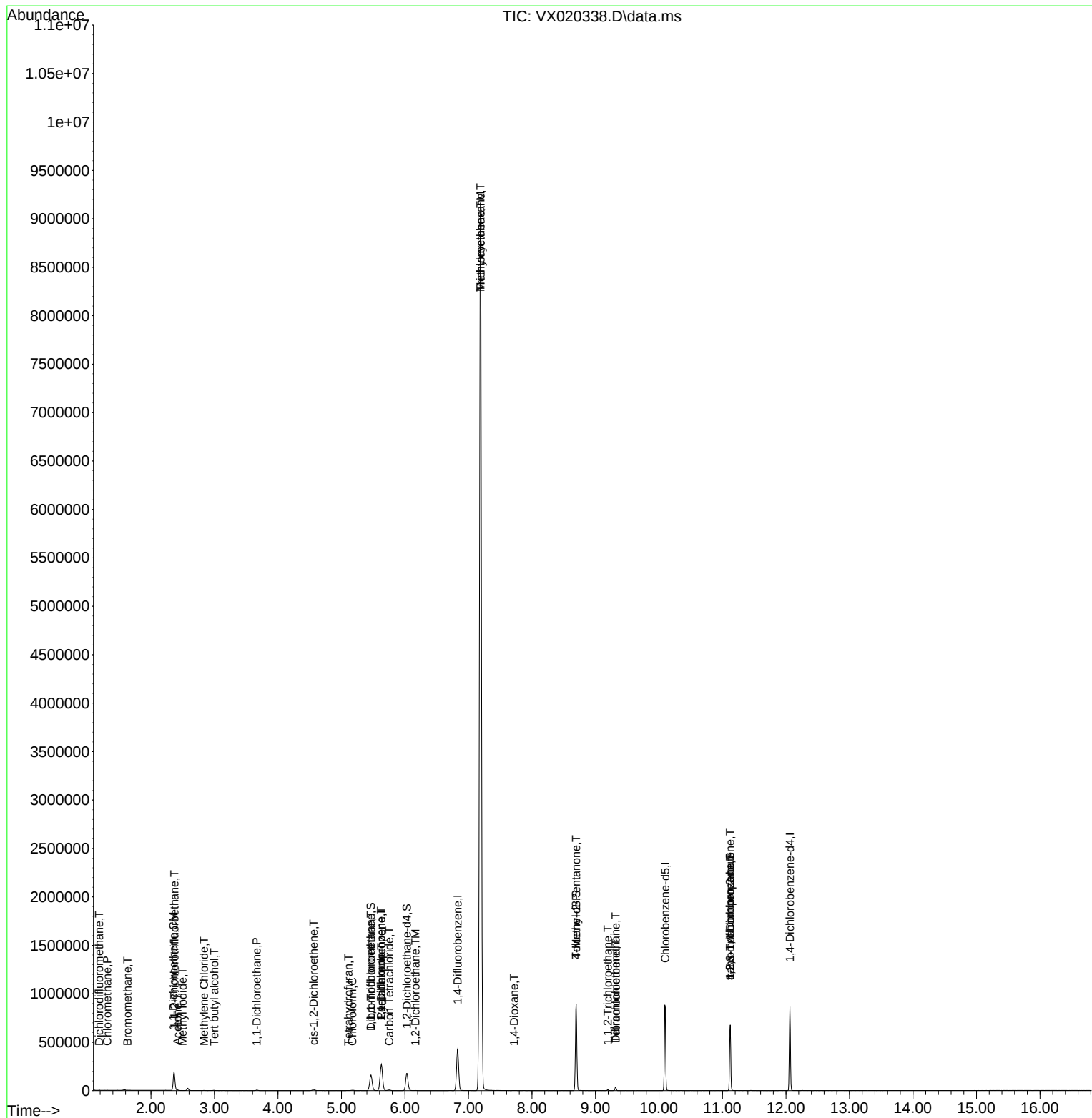
Internal Standards						
1) Pentafluorobenzene	5.629	168	253586	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.830	114	430907	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.098	117	412867	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.061	152	174485	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.032	65	171372	50.42	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	= 100.84%	
35) Dibromofluoromethane	5.465	113	138042	50.08	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	= 100.16%	
50) Toluene-d8	8.696	98	533311	50.26	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	= 100.52%	
62) 4-Bromofluorobenzene	11.122	95	189840	46.75	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	= 93.50%	
Target Compounds						
2) Dichlorodifluoromethane	1.185	85	593	0.22	ug/l	Qvalue 96
3) Chloromethane	1.313	50	768	0.24	ug/l	99
5) Bromomethane	1.630	94	519	0.47	ug/l #	74
9) 1,1,2-Trichlorotrifluo...	2.368	101	64023	25.29	ug/l	97
10) Methyl Iodide	2.496	142	161	3.33	ug/l #	62
11) Tert butyl alcohol	2.995	59	1755	2.31	ug/l #	73
12) 1,1-Dichloroethene	2.355	96	16002	6.18	ug/l	90
16) Acetone	2.416	43	6058	3.91	ug/l	96
20) Methylene Chloride	2.837	84	708	0.20	ug/l #	89
24) 1,1-Dichloroethane	3.666	63	6603	1.19	ug/l	96
27) cis-1,2-Dichloroethene	4.562	96	7500	2.11	ug/l	95
29) Tetrahydrofuran	5.111	42	1042	0.73	ug/l #	27
30) Chloroform	5.172	83	5244	0.93	ug/l	95
31) Cyclohexane	5.629	56	5040	1.08	ug/l #	1
32) 1,1,1-Trichloroethane	5.465	97	1871	0.40	ug/l #	49
36) 1,1-Dichloropropene	5.623	75	20057	4.71	ug/l #	48
38) Carbon Tetrachloride	5.751	117	5387	1.33	ug/l	98
39) Methylcyclohexane	7.190	83	42829	8.71	ug/l #	1
42) 1,2-Dichloroethane	6.166	62	1324	0.29	ug/l	86
44) Trichloroethene	7.190	130	3518943	1026.89	ug/l	98
49) 1,4-Dioxane	7.720	88	508	6.34	ug/l #	75
51) 4-Methyl-2-Pentanone	8.696	43	2191	0.51	ug/l #	1
55) 1,1,2-Trichloroethane	9.196	97	2721	0.82	ug/l	97
60) Dibromochloromethane	9.317	129	6631	2.00	ug/l #	11
64) Tetrachloroethene	9.317	164	6537	2.10	ug/l	89
76) 1,2,3-Trichloropropane	11.122	75	92488	21.52	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.122	75	92488	63.84	ug/l #	12

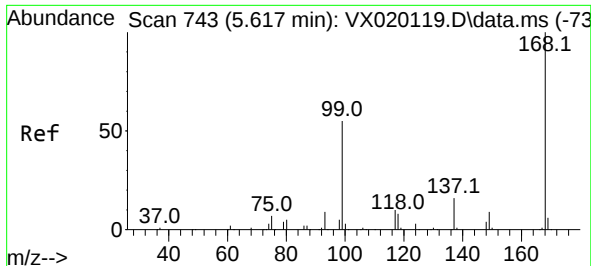
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

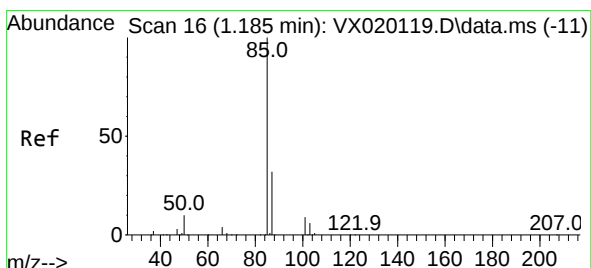
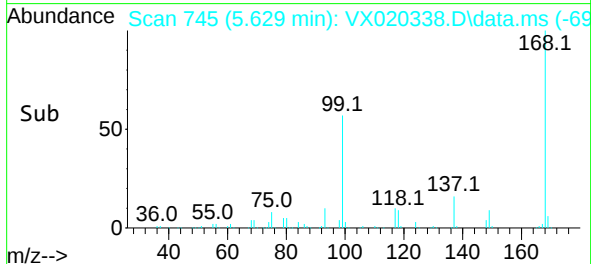
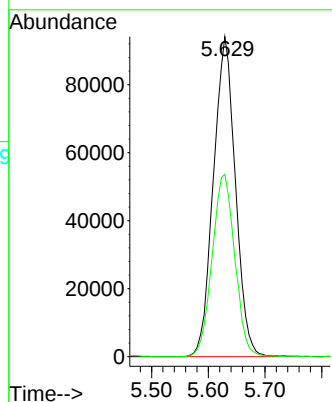
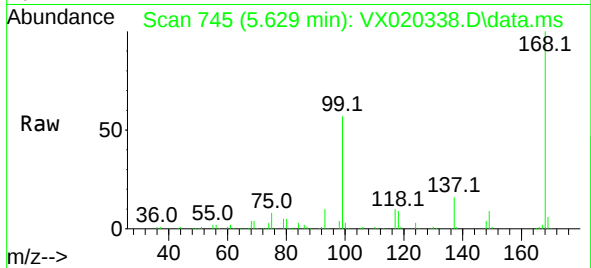




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.629 min Scan# 745
Delta R.T. 0.012 min
Lab File: VX020338.D
Acq: 23 Dec 2020 15:07

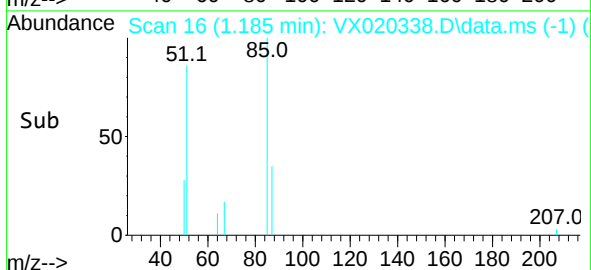
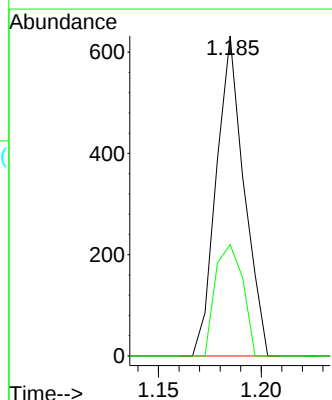
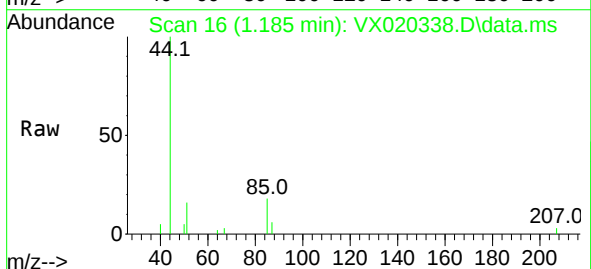
Instrument :
MSVOA_X
ClientSampleId :
DUP05-20201211

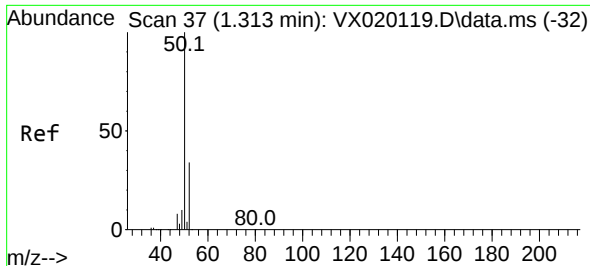
Tgt Ion:168 Resp: 253586
Ion Ratio Lower Upper
168 100
99 57.0 45.8 68.6



#2
Dichlorodifluoromethane
Concen: 0.22 ug/l
RT: 1.185 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX020338.D
Acq: 23 Dec 2020 15:07

Tgt Ion: 85 Resp: 593
Ion Ratio Lower Upper
85 100
87 34.8 16.4 49.2

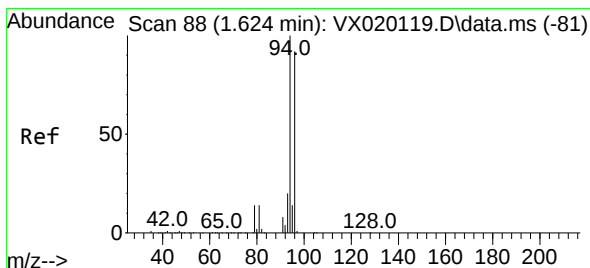
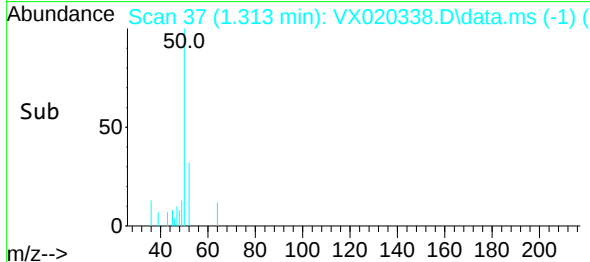
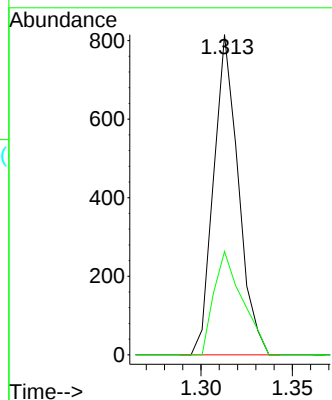
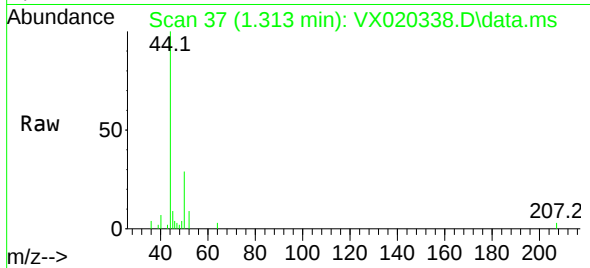




#3
Chloromethane
Concen: 0.24 ug/l
RT: 1.313 min Scan# 37
Delta R.T. -0.000 min
Lab File: VX020338.D
Acq: 23 Dec 2020 15:07

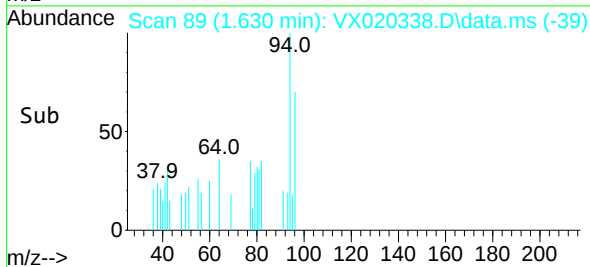
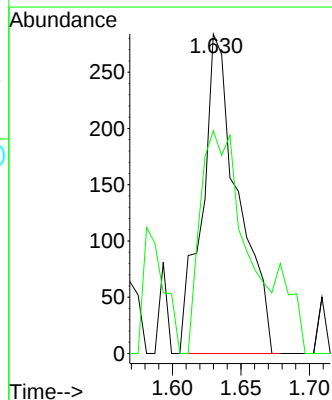
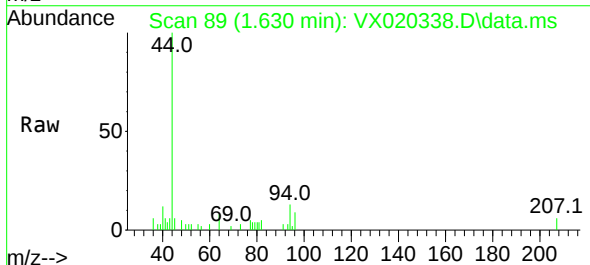
Instrument :
MSVOA_X
ClientSampleId :
DUP05-20201211

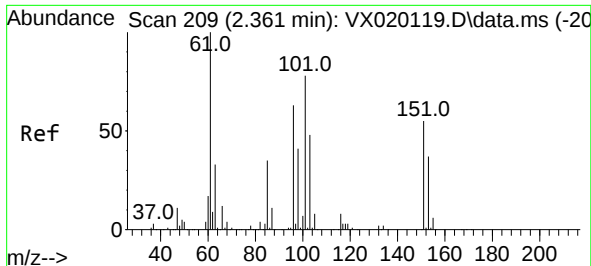
Tgt Ion: 50 Resp: 768
Ion Ratio Lower Upper
50 100
52 32.3 26.4 39.6



#5
Bromomethane
Concen: 0.47 ug/l
RT: 1.630 min Scan# 89
Delta R.T. 0.006 min
Lab File: VX020338.D
Acq: 23 Dec 2020 15:07

Tgt Ion: 94 Resp: 519
Ion Ratio Lower Upper
94 100
96 69.7 76.4 114.6#

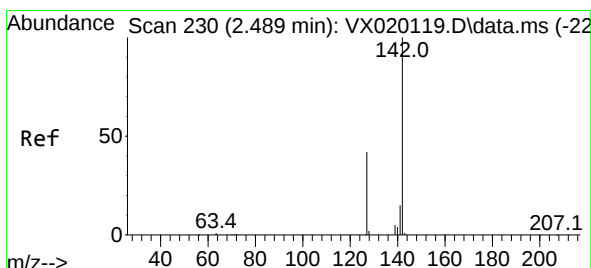
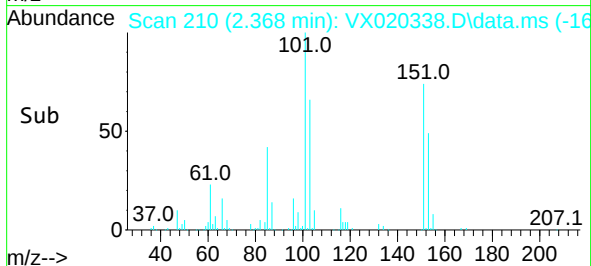
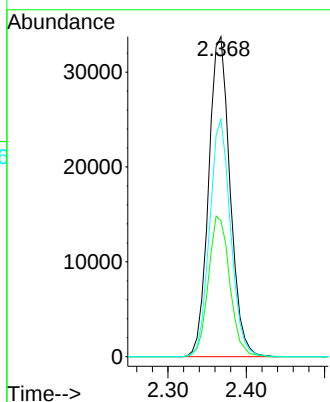
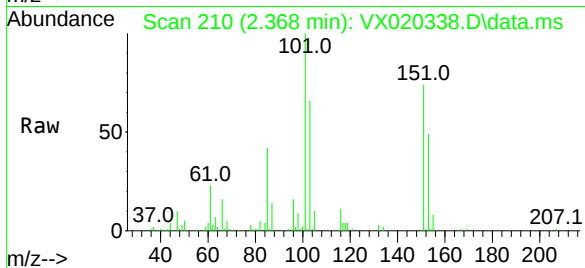




#9
1,1,2-Trichlorotrifluoroethane
Concen: 25.29 ug/l
RT: 2.368 min Scan# 210
Delta R.T. 0.007 min
Lab File: VX020338.D
Acq: 23 Dec 2020 15:07

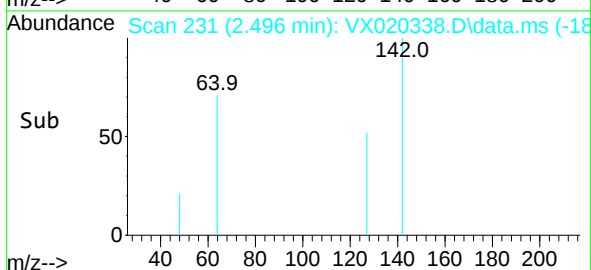
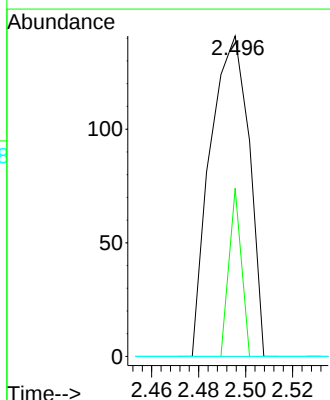
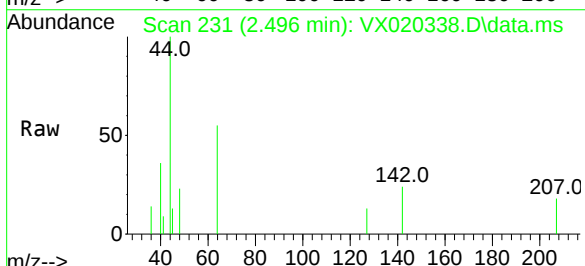
Instrument :
MSVOA_X
ClientSampleId :
DUP05-20201211

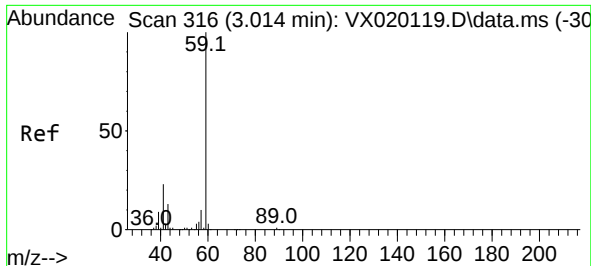
Tgt Ion:101 Resp: 64023
Ion Ratio Lower Upper
101 100
85 43.9 34.9 52.3
151 72.9 61.4 92.2



#10
Methyl Iodide
Concen: 3.33 ug/l
RT: 2.496 min Scan# 231
Delta R.T. 0.007 min
Lab File: VX020338.D
Acq: 23 Dec 2020 15:07

Tgt Ion:142 Resp: 161
Ion Ratio Lower Upper
142 100
127 16.8 33.3 49.9#
141 0.0 11.4 17.0#



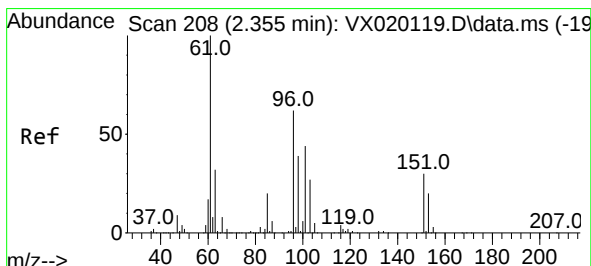
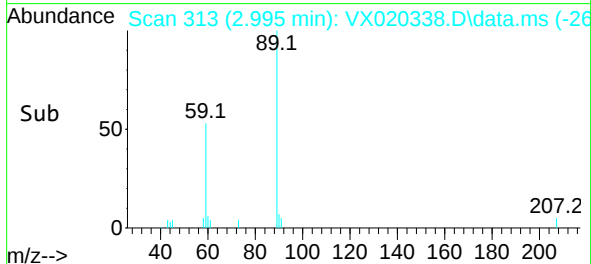
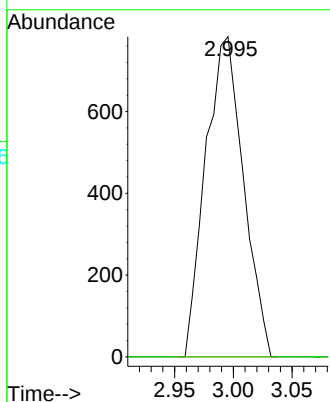
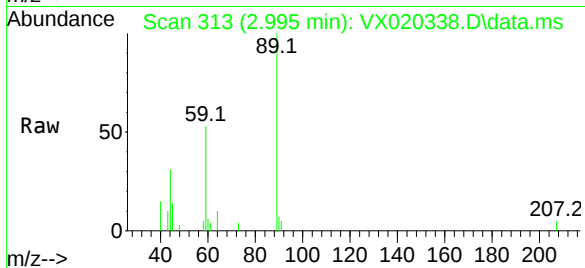


#11

Tert butyl alcohol
Concen: 2.31 ug/l
RT: 2.995 min Scan# 313
Delta R.T. -0.019 min
Lab File: VX020338.D
Acq: 23 Dec 2020 15:07

Instrument :
MSVOA_X
ClientSampleId :
DUP05-20201211

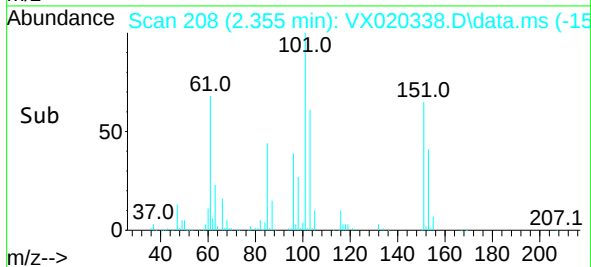
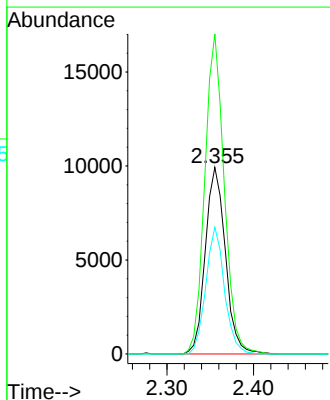
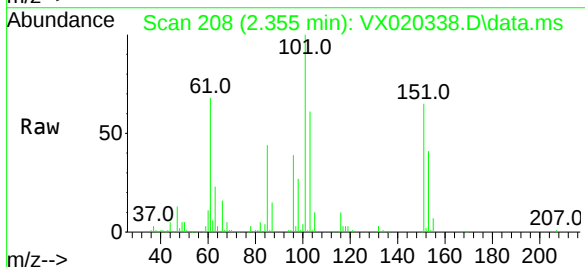
Tgt Ion: 59 Resp: 1755
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#

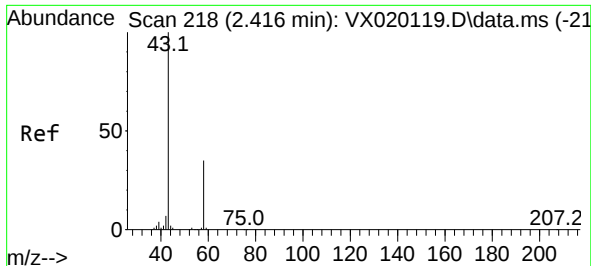


#12

1,1-Dichloroethene
Concen: 6.18 ug/l
RT: 2.355 min Scan# 208
Delta R.T. 0.000 min
Lab File: VX020338.D
Acq: 23 Dec 2020 15:07

Tgt Ion: 96 Resp: 16002
Ion Ratio Lower Upper
96 100
61 171.5 124.6 187.0
98 68.0 50.6 76.0

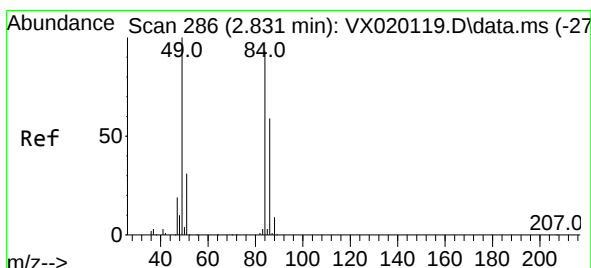
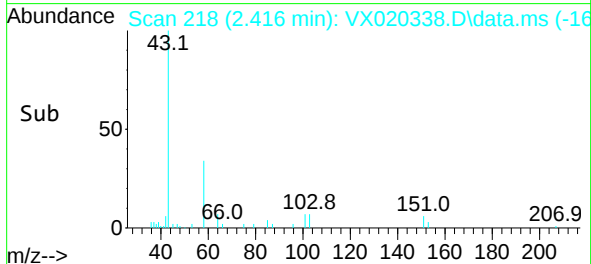
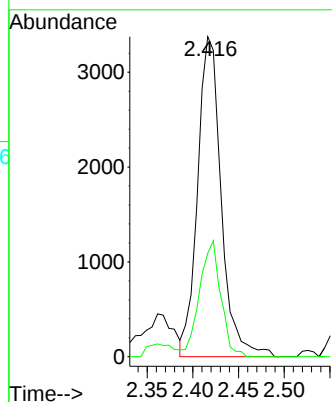
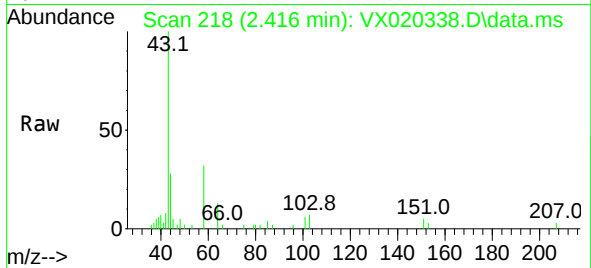




#16
Acetone
Concen: 3.91 ug/l
RT: 2.416 min Scan# 218
Delta R.T. 0.000 min
Lab File: VX020338.D
Acq: 23 Dec 2020 15:07

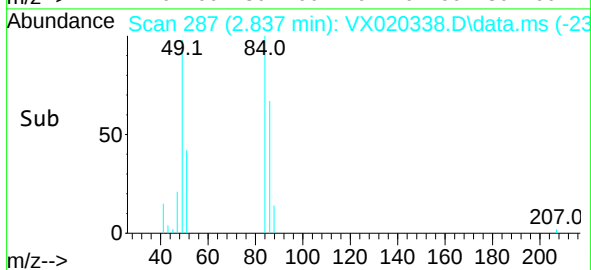
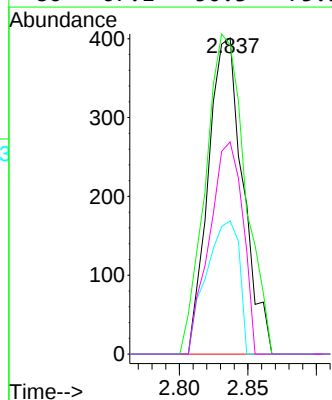
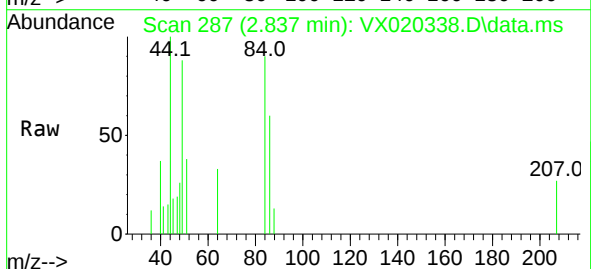
Instrument :
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ClientSampleId :
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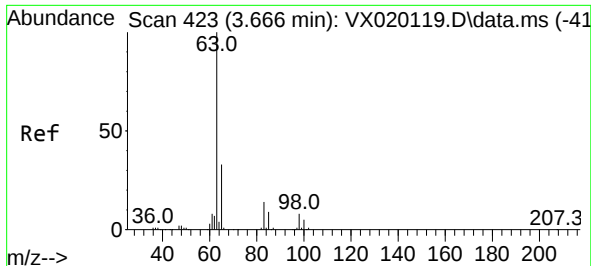
Tgt Ion: 43 Resp: 6058
Ion Ratio Lower Upper
43 100
58 32.3 27.8 41.8



#20
Methylene Chloride
Concen: 0.20 ug/l
RT: 2.837 min Scan# 287
Delta R.T. 0.006 min
Lab File: VX020338.D
Acq: 23 Dec 2020 15:07

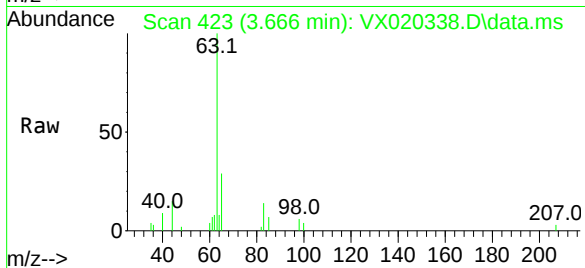
Tgt Ion: 84 Resp: 708
Ion Ratio Lower Upper
84 100
49 97.8 88.6 132.8
51 42.1 27.0 40.6#
86 67.1 50.3 75.5



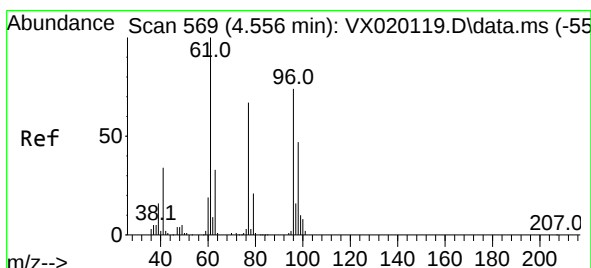
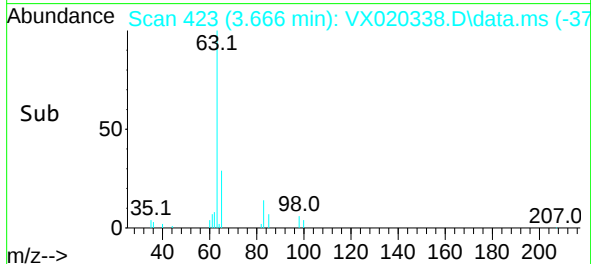
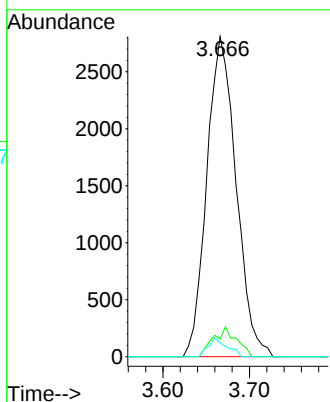


#24
1,1-Dichloroethane
Concen: 1.19 ug/l
RT: 3.666 min Scan# 423
Delta R.T. 0.000 min
Lab File: VX020338.D
Acq: 23 Dec 2020 15:07

Instrument :
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ClientSampleId :
DUP05-20201211

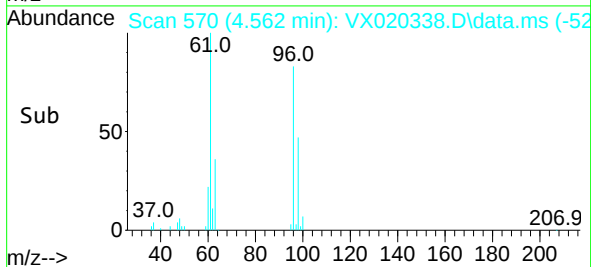
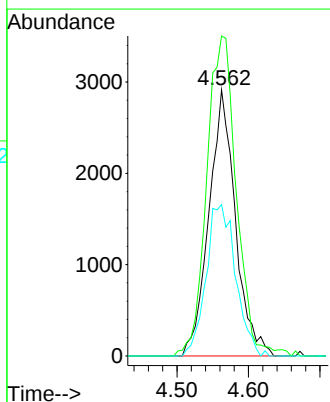
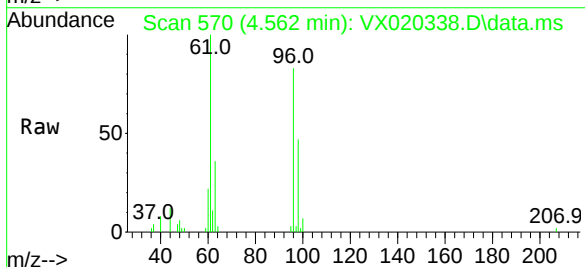


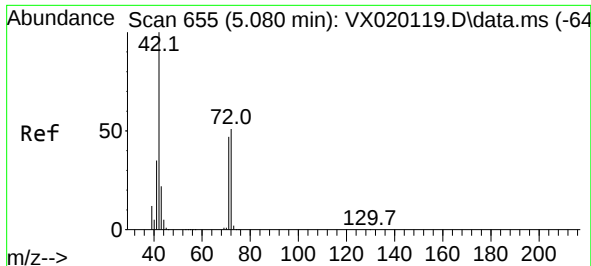
Tgt Ion: 63 Resp: 6603
Ion Ratio Lower Upper
63 100
98 5.6 3.8 11.2
100 4.3 2.5 7.5



#27
cis-1,2-Dichloroethene
Concen: 2.11 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.006 min
Lab File: VX020338.D
Acq: 23 Dec 2020 15:07

Tgt Ion: 96 Resp: 7500
Ion Ratio Lower Upper
96 100
61 135.0 0.0 285.6
98 63.5 0.0 129.6





#29

Tetrahydrofuran

Concen: 0.73 ug/l

RT: 5.111 min Scan# 660

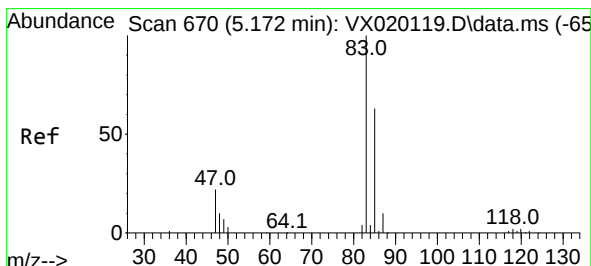
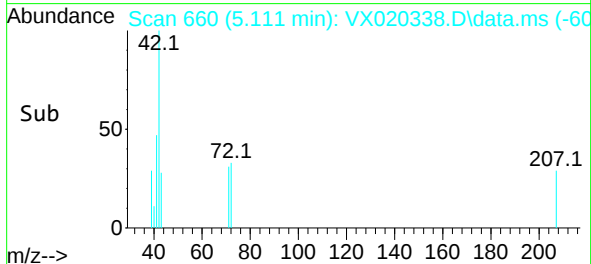
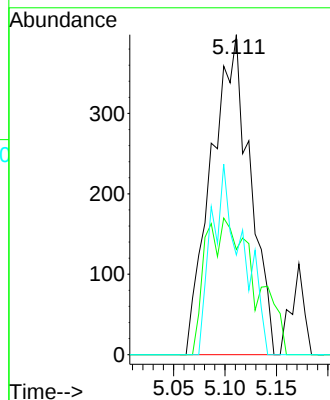
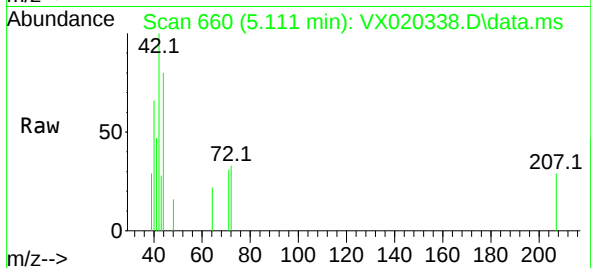
Delta R.T. 0.031 min

Lab File: VX020338.D

Acq: 23 Dec 2020 15:07

Tgt Ion:	42	Resp:	1042
Ion	Ratio	Lower	Upper
42	100		
72	0.0	41.7	62.5#
71	0.0	38.4	57.6#

Instrument :
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#30

Chloroform

Concen: 0.93 ug/l

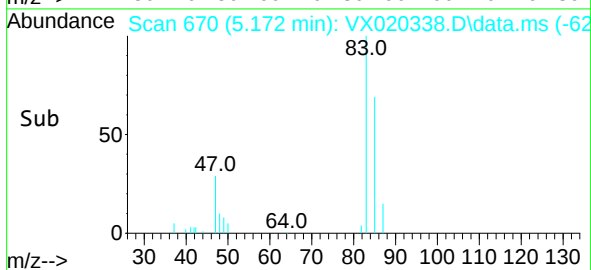
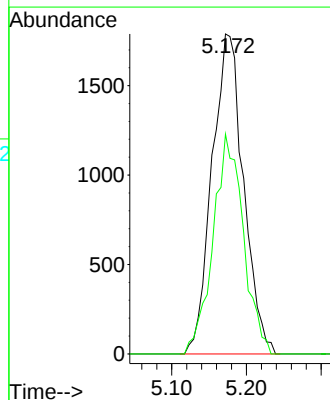
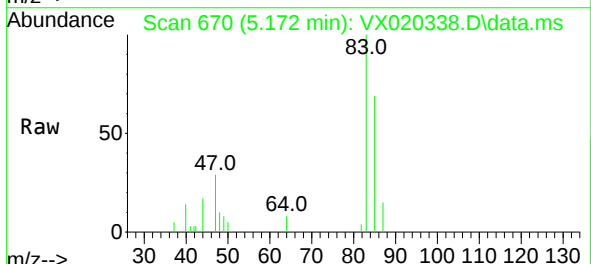
RT: 5.172 min Scan# 670

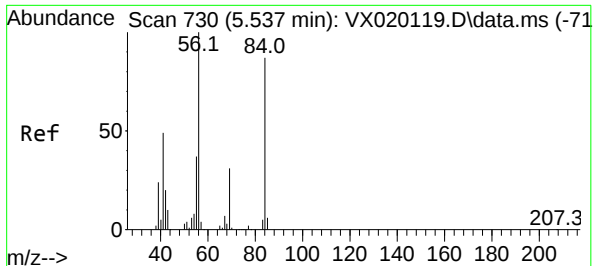
Delta R.T. -0.000 min

Lab File: VX020338.D

Acq: 23 Dec 2020 15:07

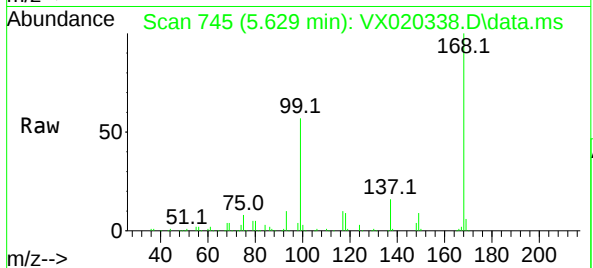
Tgt Ion:	83	Resp:	5244
Ion	Ratio	Lower	Upper
83	100		
85	68.7	52.0	78.0



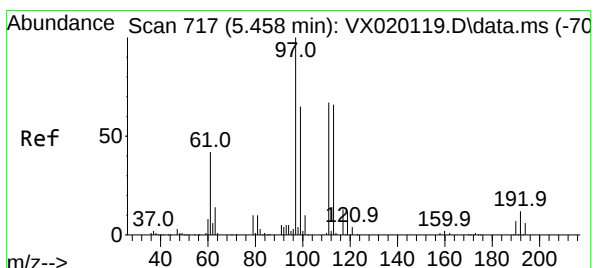
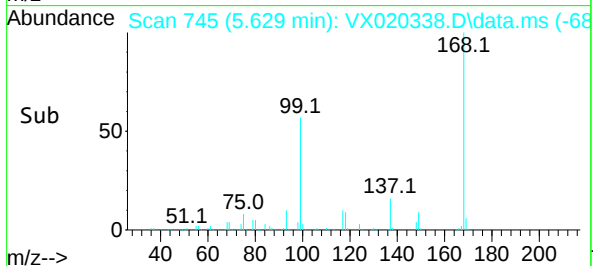
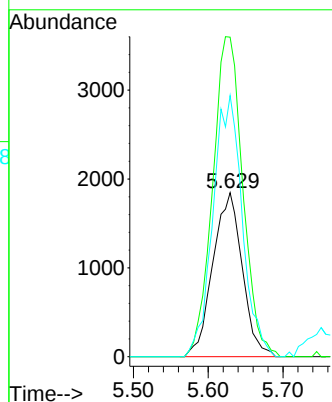


#31
Cyclohexane
Concen: 1.08 ug/l
RT: 5.629 min Scan# 745
Delta R.T. 0.092 min
Lab File: VX020338.D
Acq: 23 Dec 2020 15:07

Instrument :
MSVOA_X
ClientSampleId :
DUP05-20201211

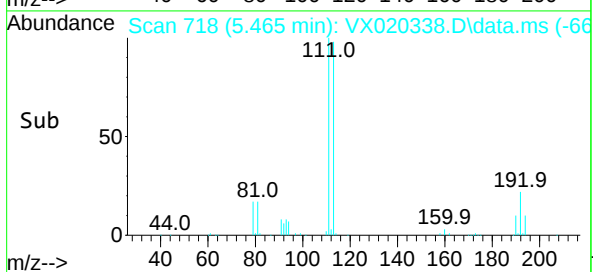
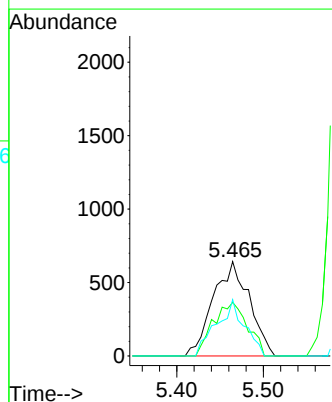
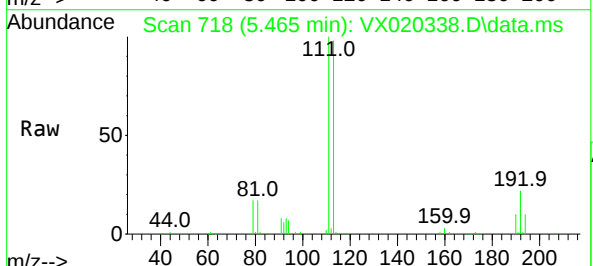


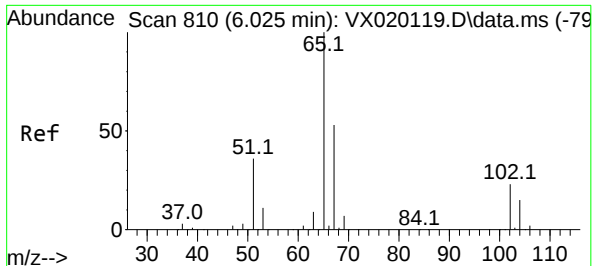
Tgt Ion: 56 Resp: 5040
Ion Ratio Lower Upper
56 100
69 194.9 25.3 37.9#
84 159.3 71.4 107.0#



#32
1,1,1-Trichloroethane
Concen: 0.40 ug/l
RT: 5.465 min Scan# 718
Delta R.T. 0.007 min
Lab File: VX020338.D
Acq: 23 Dec 2020 15:07

Tgt Ion: 97 Resp: 1871
Ion Ratio Lower Upper
97 100
99 0.0 51.5 77.3#
61 46.2 34.2 51.4





#33

1,2-Dichloroethane-d4

Concen: 50.42 ug/l

RT: 6.032 min Scan# 811

Delta R.T. 0.006 min

Lab File: VX020338.D

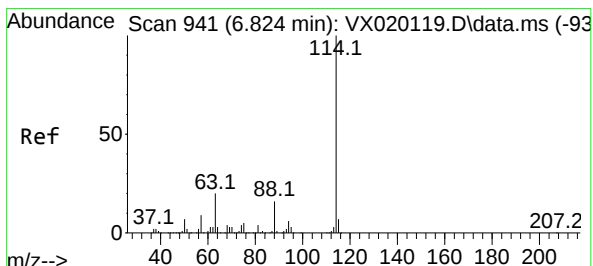
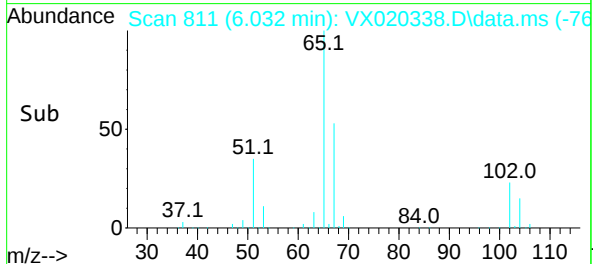
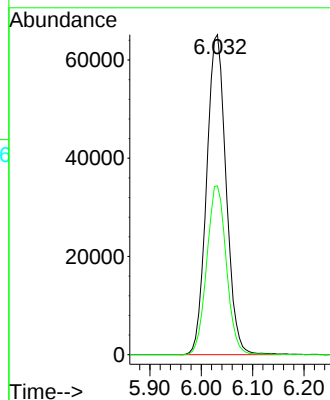
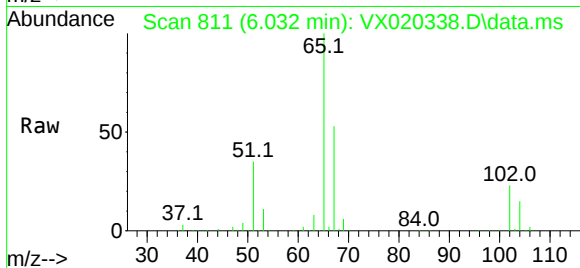
Acq: 23 Dec 2020 15:07

Tgt Ion: 65 Resp: 171372

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: VX020338.D

Acq: 23 Dec 2020 15:07

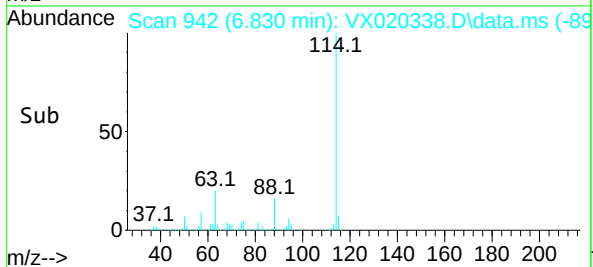
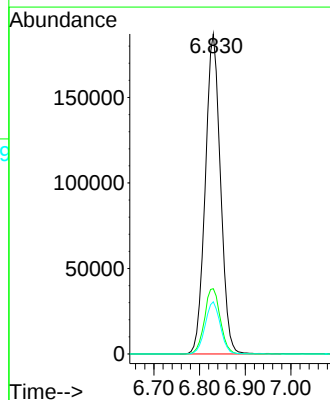
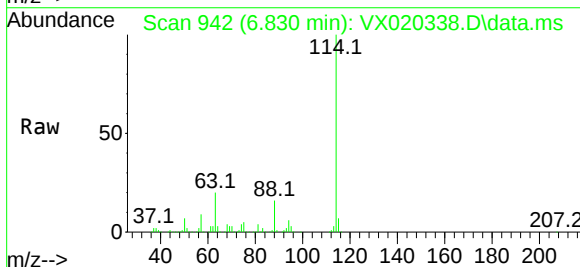
Tgt Ion: 114 Resp: 430907

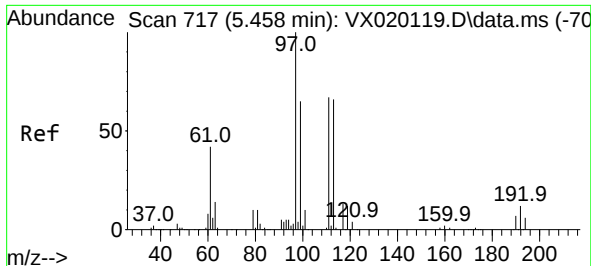
Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.8

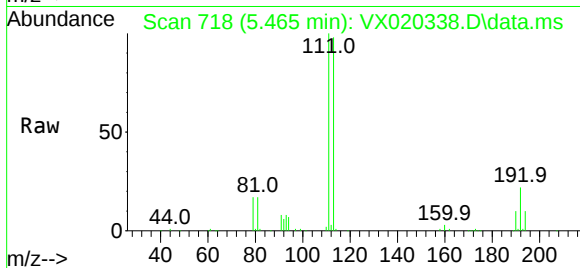
88 16.3 0.0 32.8



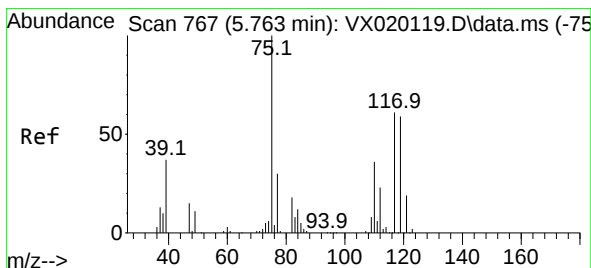
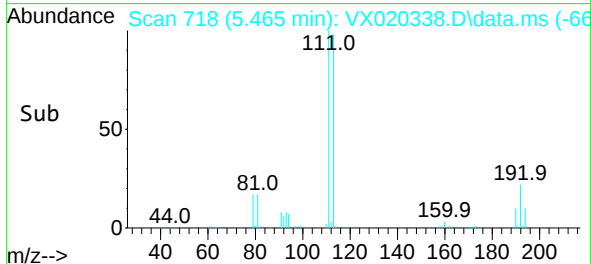
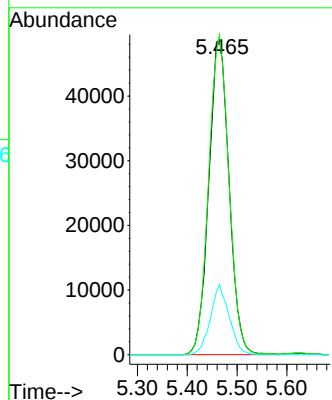


#35
Dibromofluoromethane
Concen: 50.08 ug/l
RT: 5.465 min Scan# 718
Delta R.T. 0.007 min
Lab File: VX020338.D
Acq: 23 Dec 2020 15:07

Instrument :
MSVOA_X
ClientSampleId :
DUP05-20201211

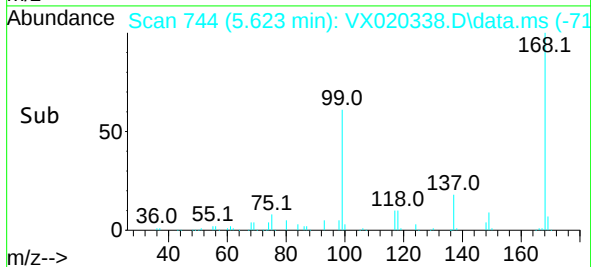
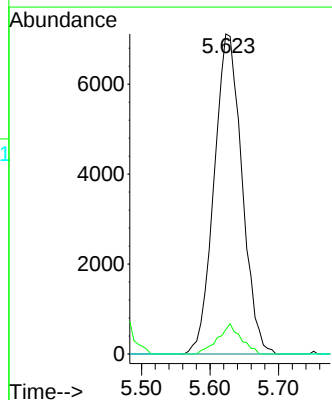
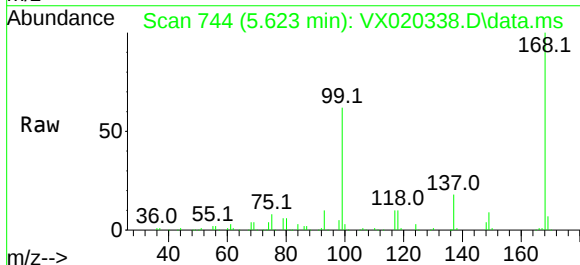


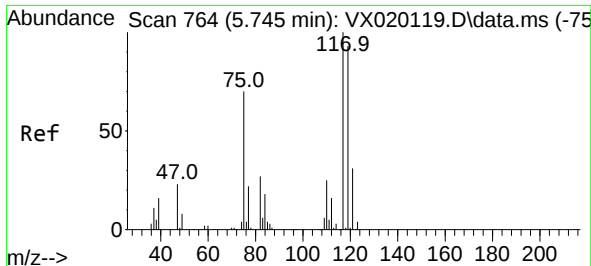
Tgt Ion:113 Resp: 138042
Ion Ratio Lower Upper
113 100
111 101.4 81.9 122.9
192 20.6 16.7 25.1



#36
1,1-Dichloropropene
Concen: 4.71 ug/l
RT: 5.623 min Scan# 744
Delta R.T. -0.140 min
Lab File: VX020338.D
Acq: 23 Dec 2020 15:07

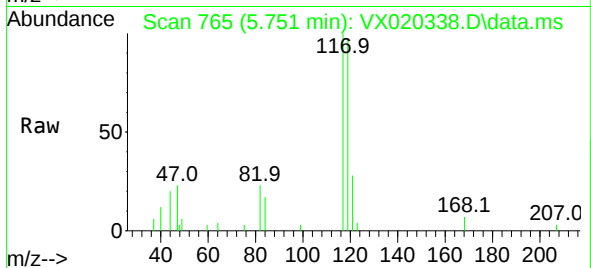
Tgt Ion: 75 Resp: 20057
Ion Ratio Lower Upper
75 100
110 7.8 18.1 54.4#
77 0.0 25.3 37.9#



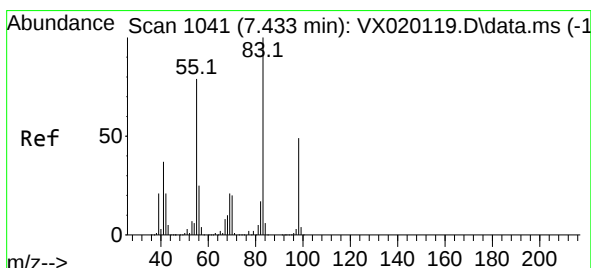
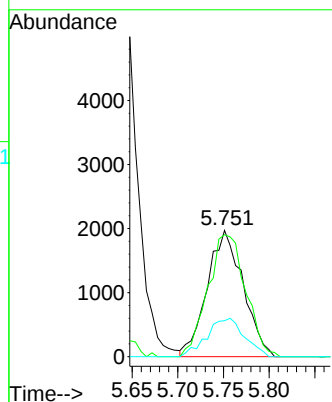
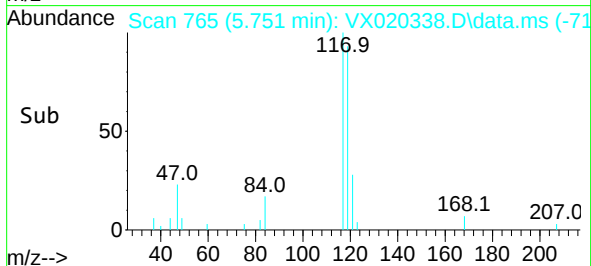


#38
Carbon Tetrachloride
Concen: 1.33 ug/l
RT: 5.751 min Scan# 765
Delta R.T. 0.006 min
Lab File: VX020338.D
Acq: 23 Dec 2020 15:07

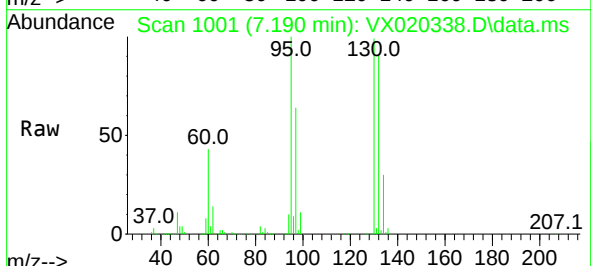
Instrument :
MSVOA_X
ClientSampleId :
DUP05-20201211



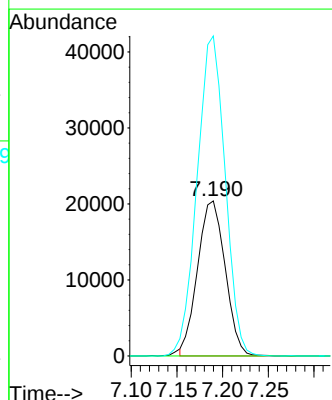
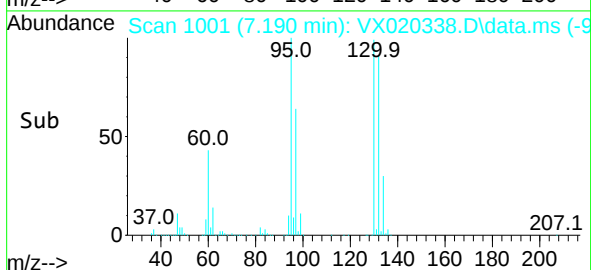
Tgt Ion:117 Resp: 5387
Ion Ratio Lower Upper
117 100
119 96.5 76.2 114.2
121 28.5 24.8 37.2

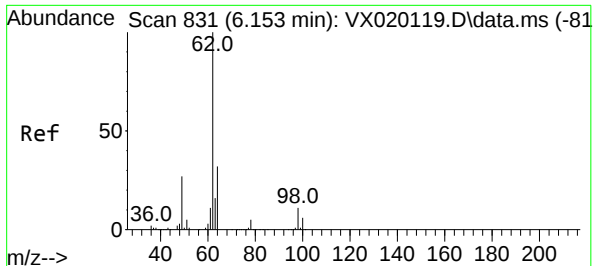


#39
Methylcyclohexane
Concen: 8.71 ug/l
RT: 7.190 min Scan# 1001
Delta R.T. -0.243 min
Lab File: VX020338.D
Acq: 23 Dec 2020 15:07



Tgt Ion: 83 Resp: 42829
Ion Ratio Lower Upper
83 100
55 0.0 58.9 88.3#
98 206.4 38.1 57.1#





#42

1,2-Dichloroethane

Concen: 0.29 ug/l

RT: 6.166 min Scan# 833

Delta R.T. 0.013 min

Lab File: VX020338.D

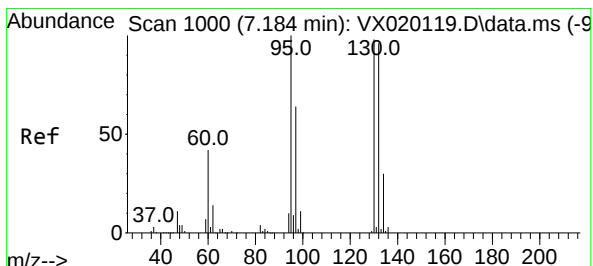
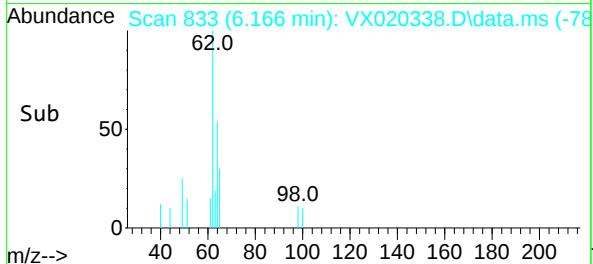
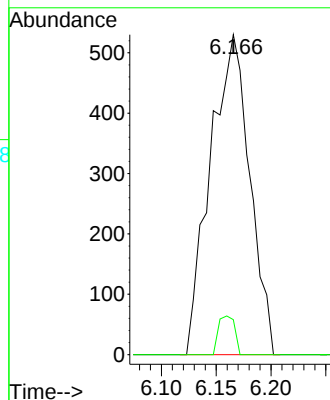
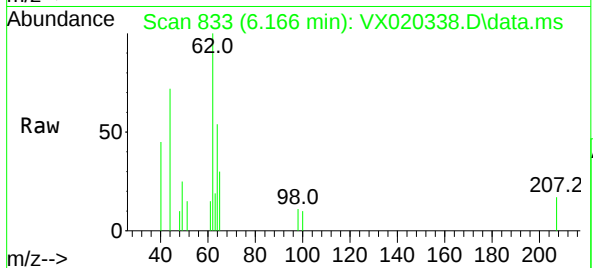
Acq: 23 Dec 2020 15:07

Tgt Ion: 62 Resp: 1324

Ion Ratio Lower Upper

62 100

98 5.0 0.0 20.2



#44

Trichloroethene

Concen: 1026.89 ug/l

RT: 7.190 min Scan# 1001

Delta R.T. 0.006 min

Lab File: VX020338.D

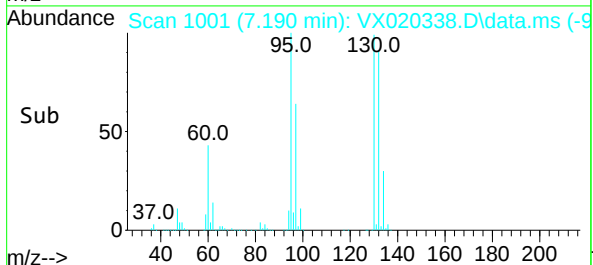
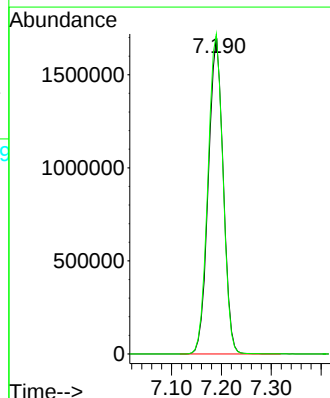
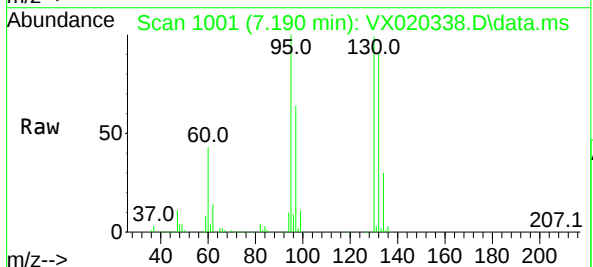
Acq: 23 Dec 2020 15:07

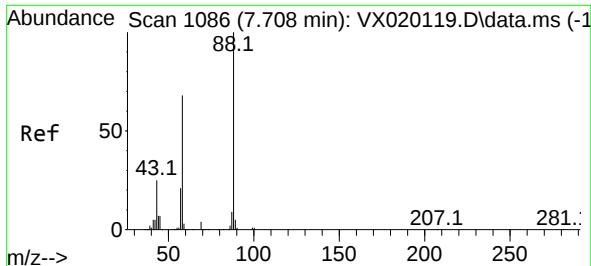
Tgt Ion:130 Resp: 3518943

Ion Ratio Lower Upper

130 100

95 100.7 0.0 198.0

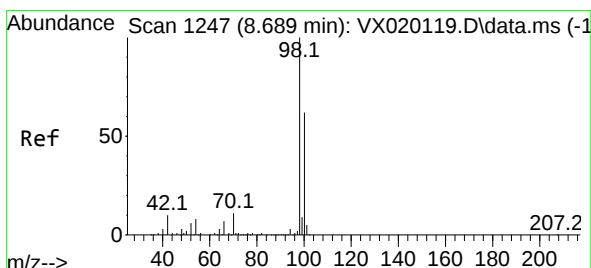
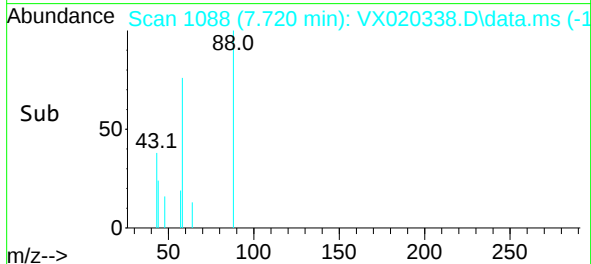
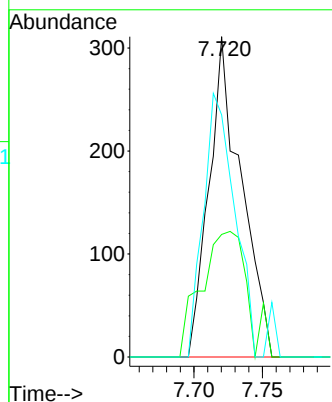
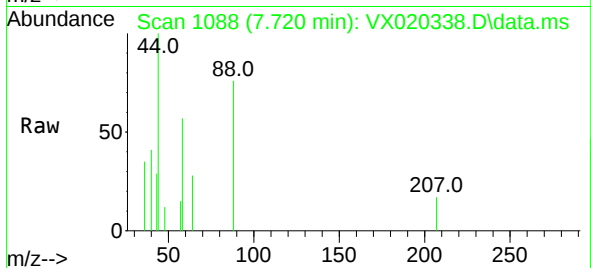




#49
1,4-Dioxane
Concen: 6.34 ug/l
RT: 7.720 min Scan# 1088
Delta R.T. 0.012 min
Lab File: VX020338.D
Acq: 23 Dec 2020 15:07

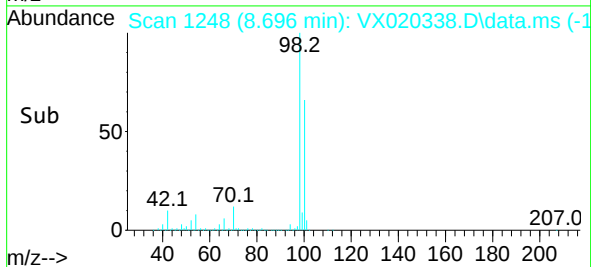
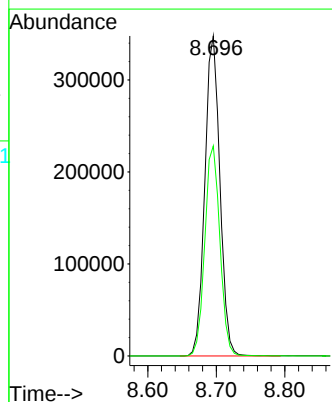
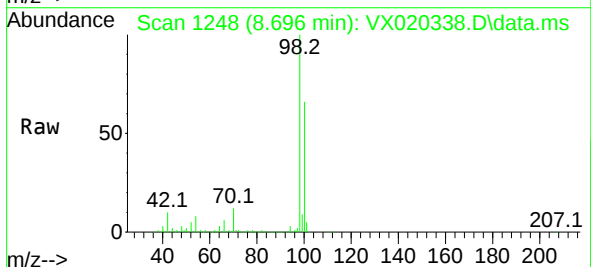
Instrument :
MSVOA_X
ClientSampleId :
DUP05-20201211

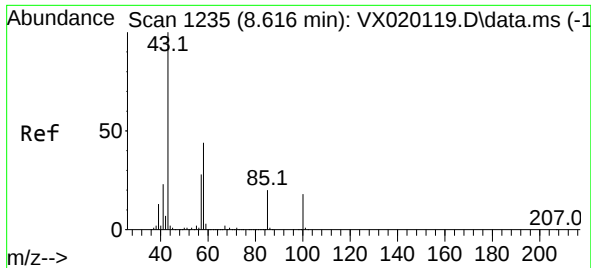
Tgt Ion: 88 Resp: 508
Ion Ratio Lower Upper
88 100
43 56.1 23.2 34.8#
58 79.9 55.0 82.4



#50
Toluene-d8
Concen: 50.26 ug/l
RT: 8.696 min Scan# 1248
Delta R.T. 0.007 min
Lab File: VX020338.D
Acq: 23 Dec 2020 15:07

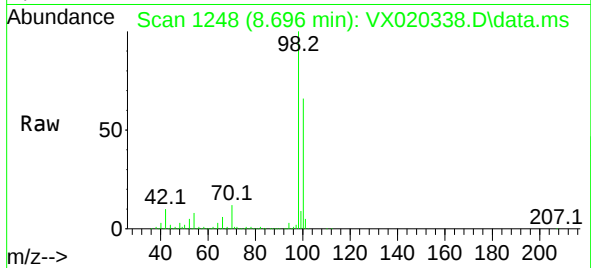
Tgt Ion: 98 Resp: 533311
Ion Ratio Lower Upper
98 100
100 65.8 51.9 77.9



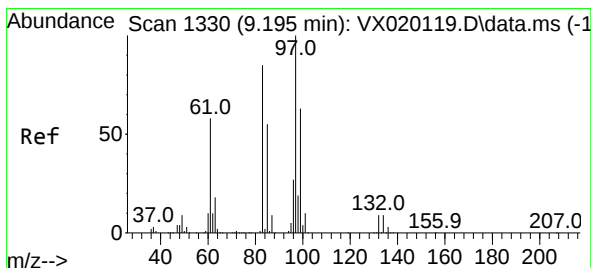
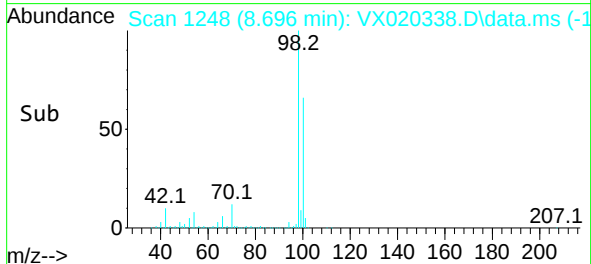
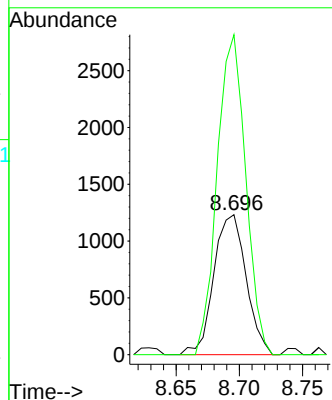


#51
4-Methyl-2-Pentanone
Concen: 0.51 ug/l
RT: 8.696 min Scan# 1248
Delta R.T. 0.080 min
Lab File: VX020338.D
Acq: 23 Dec 2020 15:07

Instrument :
MSVOA_X
ClientSampleId :
DUP05-20201211

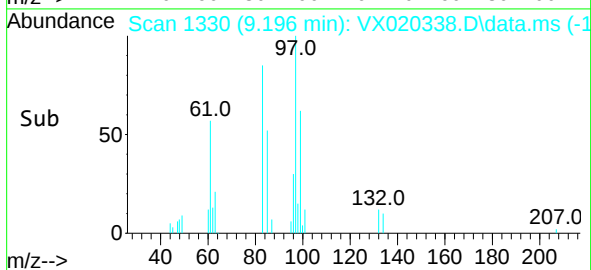
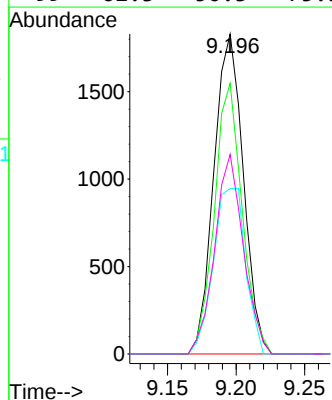
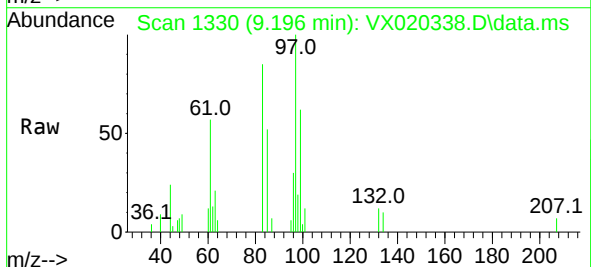


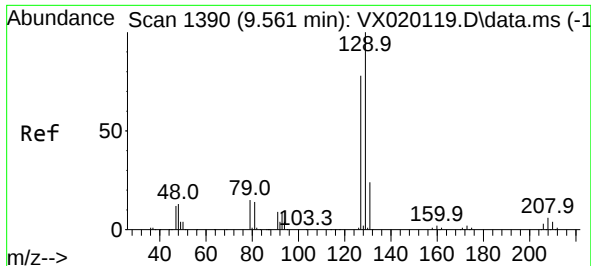
Tgt Ion: 43 Resp: 2191
Ion Ratio Lower Upper
43 100
58 201.6 35.4 53.0#



#55
1,1,2-Trichloroethane
Concen: 0.82 ug/l
RT: 9.196 min Scan# 1330
Delta R.T. 0.001 min
Lab File: VX020338.D
Acq: 23 Dec 2020 15:07

Tgt Ion: 97 Resp: 2721
Ion Ratio Lower Upper
97 100
83 84.6 69.3 103.9
85 51.6 44.3 66.5
99 62.3 50.3 75.5

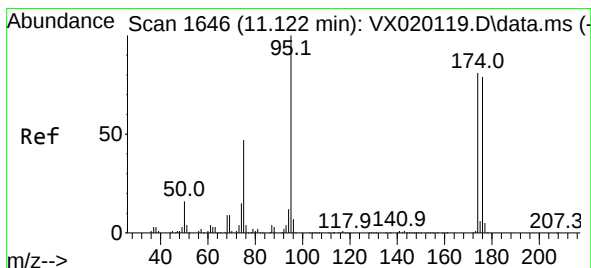
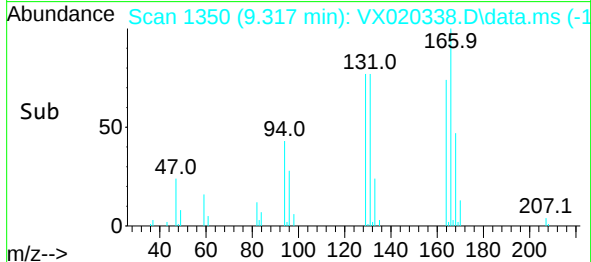
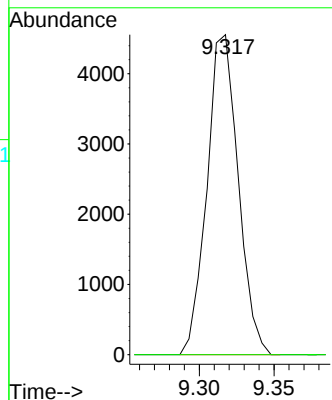
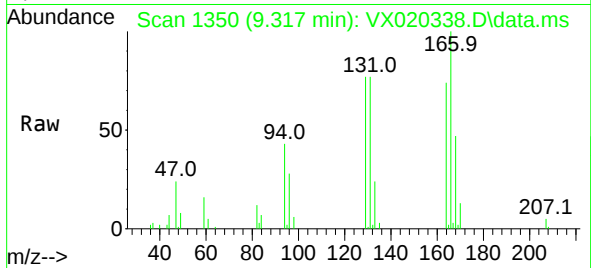




#60
Dibromochloromethane
Concen: 2.00 ug/l
RT: 9.317 min Scan# 1350
Delta R.T. -0.244 min
Lab File: VX020338.D
Acq: 23 Dec 2020 15:07

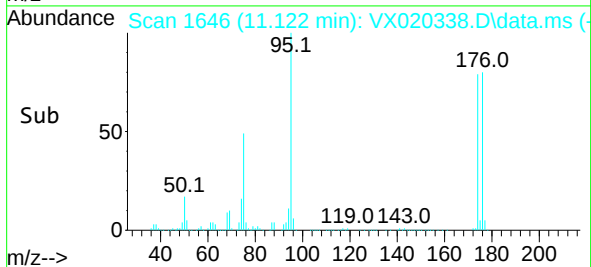
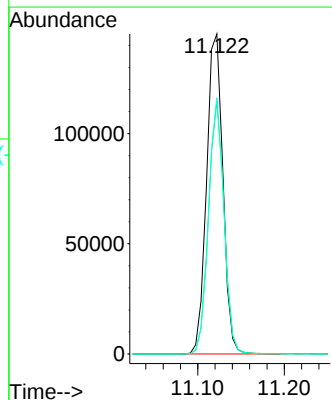
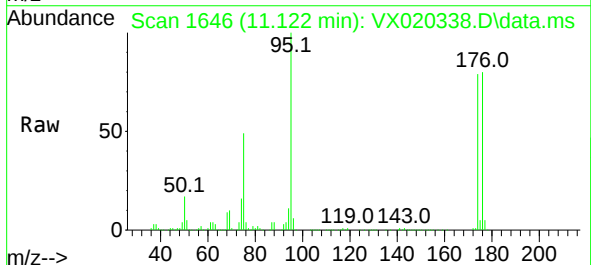
Instrument :
MSVOA_X
ClientSampleId :
DUP05-20201211

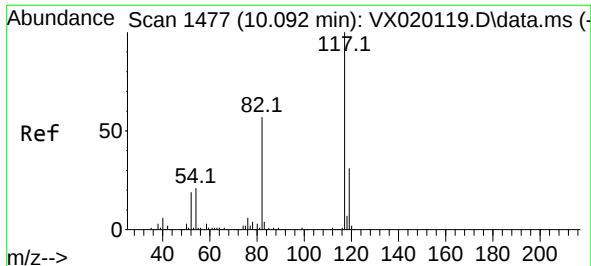
Tgt Ion:129 Resp: 6631
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.2#



#62
4-Bromofluorobenzene
Concen: 46.75 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. 0.000 min
Lab File: VX020338.D
Acq: 23 Dec 2020 15:07

Tgt Ion: 95 Resp: 189840
Ion Ratio Lower Upper
95 100
174 76.0 0.0 154.6
176 75.4 0.0 155.8

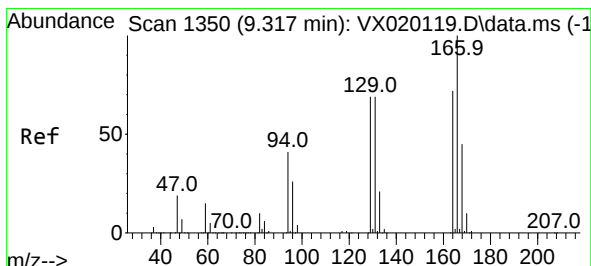
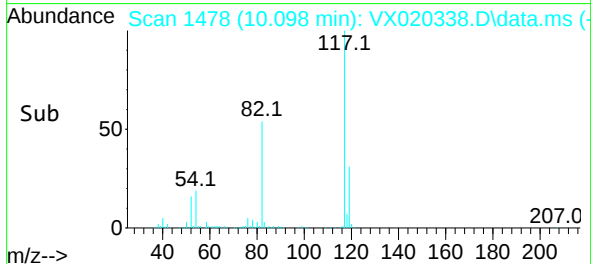
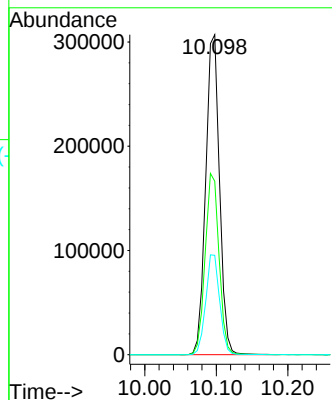
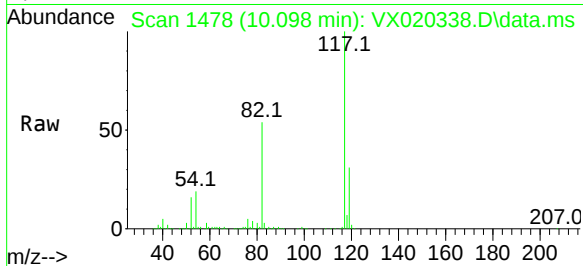




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.098 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VX020338.D
Acq: 23 Dec 2020 15:07

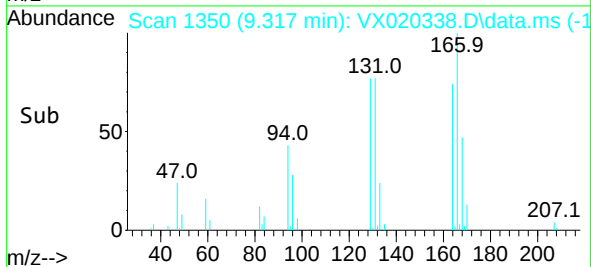
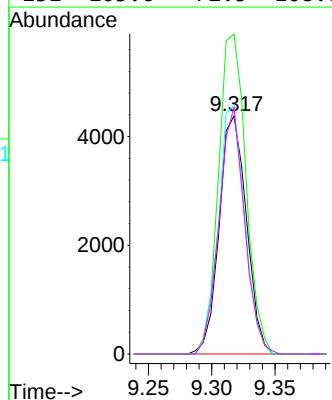
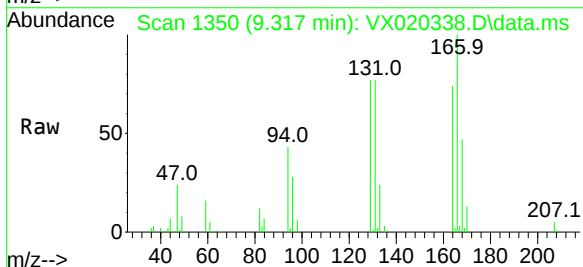
Instrument :
MSVOA_X
ClientSampleId :
DUP05-20201211

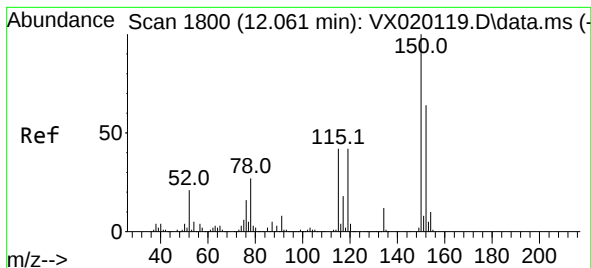
Tgt Ion:	117	Resp:	412867
Ion	Ratio	Lower	Upper
117	100		
82	54.2	47.4	71.2
119	31.0	26.6	39.8



#64
Tetrachloroethene
Concen: 2.10 ug/l
RT: 9.317 min Scan# 1350
Delta R.T. 0.000 min
Lab File: VX020338.D
Acq: 23 Dec 2020 15:07

Tgt Ion:	164	Resp:	6537
Ion	Ratio	Lower	Upper
164	100		
166	134.5	103.4	155.2
129	104.0	70.8	106.2
131	103.6	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: VX020338.D

Acq: 23 Dec 2020 15:07

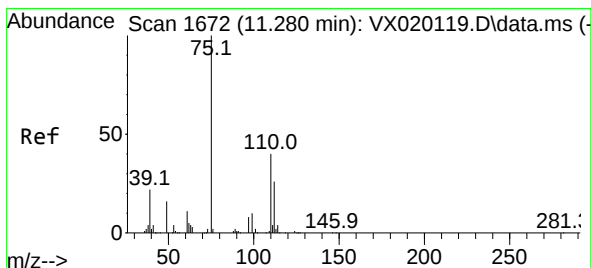
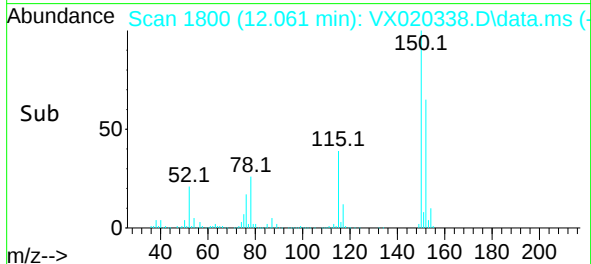
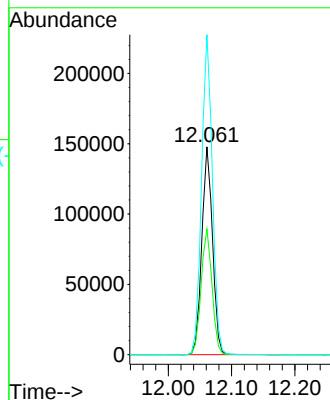
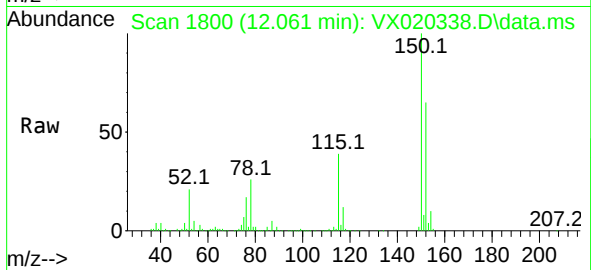
Tgt Ion:152 Resp: 174485

Ion Ratio Lower Upper

152 100

115 61.4 41.1 123.3

150 155.3 0.0 349.0



#76

1,2,3-Trichloropropane

Concen: 21.52 ug/l

RT: 11.122 min Scan# 1646

Delta R.T. -0.158 min

Lab File: VX020338.D

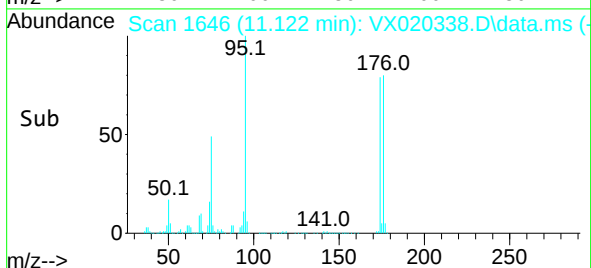
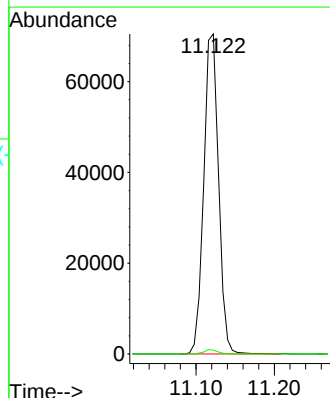
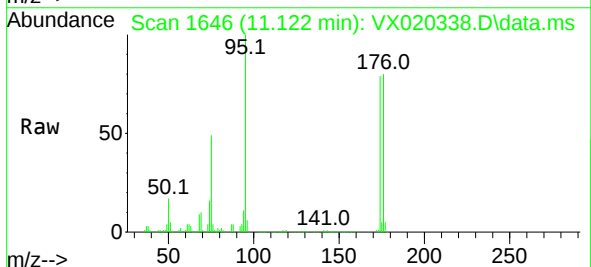
Acq: 23 Dec 2020 15:07

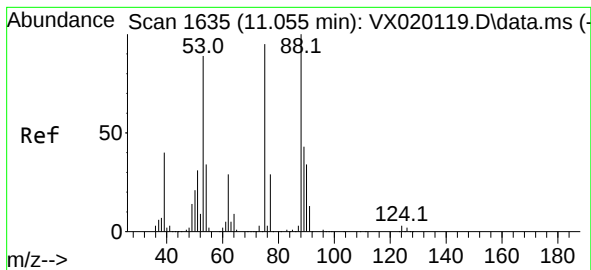
Tgt Ion: 75 Resp: 92488

Ion Ratio Lower Upper

75 100

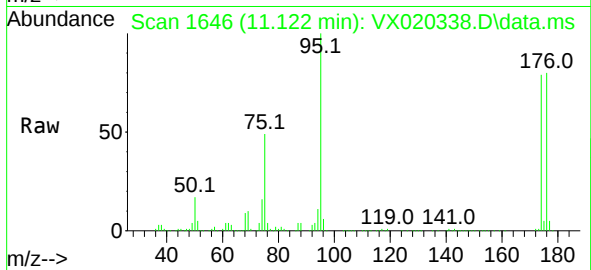
77 1.3 19.1 57.5#





#81
trans-1,4-Dichloro-2-butene
Concen: 63.84 ug/l
RT: 11.122 min Scan# 1646
Delta R.T. 0.067 min
Lab File: VX020338.D
Acq: 23 Dec 2020 15:07

Instrument :
MSVOA_X
ClientSampleId :
DUP05-20201211



Tgt Ion: 75 Resp: 92488
Ion Ratio Lower Upper
75 100
53 0.1 74.5 111.7#
89 0.0 37.9 56.9#

