

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121420\
 Data File : VN065109.D
 Acq On : 14 Dec 2020 18:41
 Operator : JC/MD
 Sample : L5040-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2

Quant Time: Dec 15 05:52:03 2020
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121420W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 15 05:41:47 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

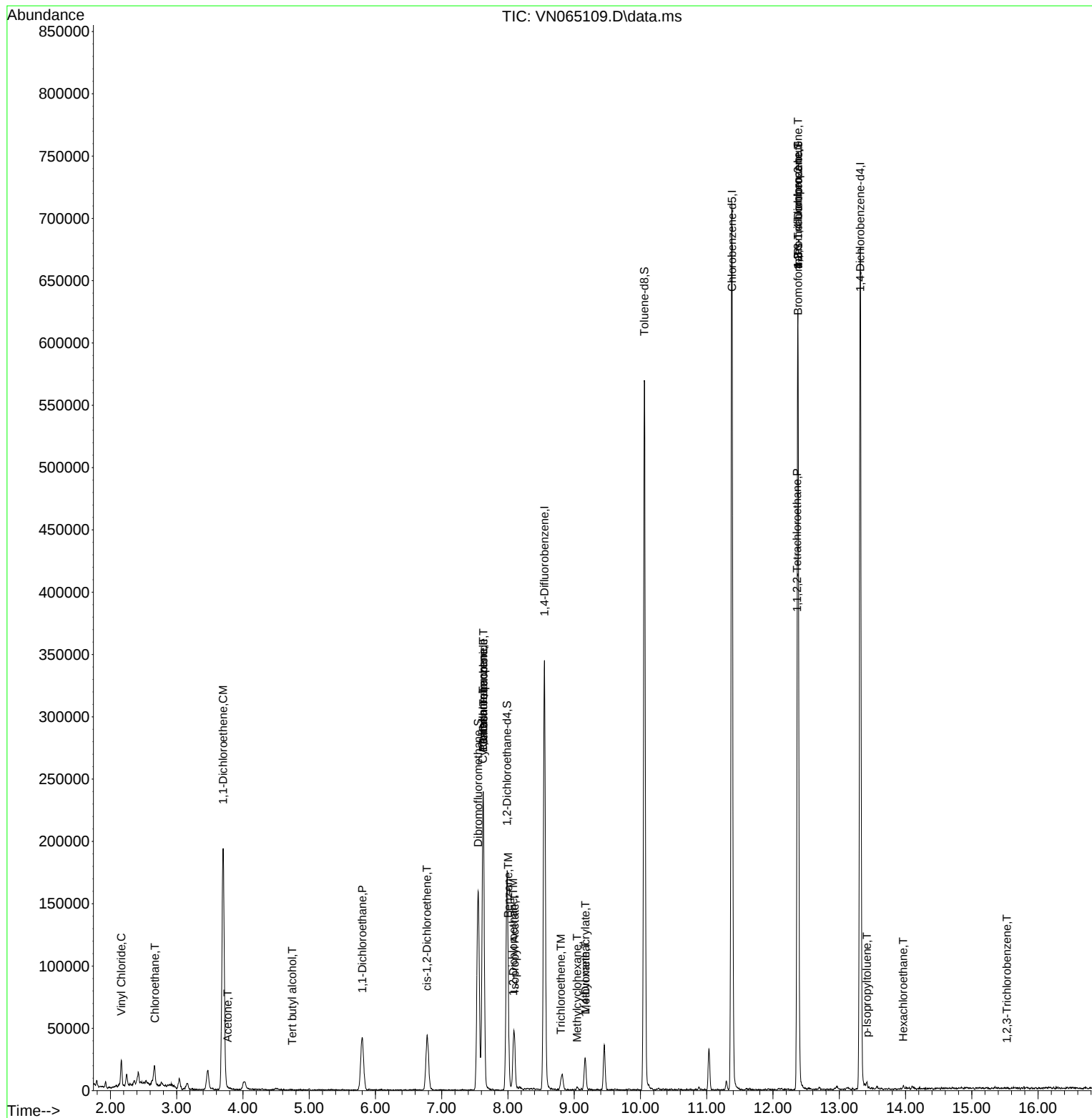
Internal Standards						
1) Pentafluorobenzene	7.624	168	171830	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.550	114	271554	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.380	117	373305	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.318	152	187787	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.987	65	156274	79.11	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 158.22%#			
35) Dibromofluoromethane	7.550	113	118618	62.84	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 125.68%			
50) Toluene-d8	10.058	98	368412	55.20	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 110.40%			
62) 4-Bromofluorobenzene	12.376	95	206447	89.81	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 179.62%#			
Target Compounds						Qvalue
3) Chloromethane	2.033	50	419	Below Cal	#	41
4) Vinyl Chloride	2.165	62	16310	10.23	ug/l	96
5) Bromomethane	2.541	94	539	Below Cal	#	3
6) Chloroethane	2.669	64	1217	1.41	ug/l	93
11) Tert butyl alcohol	4.743	59	64	0.30	ug/l	# 73
12) 1,1-Dichloroethene	3.701	96	88707	56.07	ug/l	# 76
16) Acetone	3.769	43	360	0.49	ug/l	# 43
20) Methylene Chloride	4.508	84	173	Below Cal	#	70
24) 1,1-Dichloroethane	5.801	63	63315	20.60	ug/l	97
27) cis-1,2-Dichloroethene	6.778	96	27179	14.52	ug/l	91
31) Cyclohexane	7.621	56	3485	1.30	ug/l	# 38
36) 1,1-Dichloropropene	7.624	75	15751	6.07	ug/l	# 45
38) Carbon Tetrachloride	7.627	117	19156	6.40	ug/l	# 15
39) Methylcyclohexane	9.042	83	885	0.31	ug/l	# 80
40) Benzene	8.004	78	4401	0.58	ug/l	94
42) 1,2-Dichloroethane	8.081	62	9333	3.40	ug/l	77
43) Isopropyl Acetate	8.100	43	11165	3.06	ug/l	# 69
44) Trichloroethene	8.801	130	1680	0.75	ug/l	70
48) Methyl methacrylate	9.167	41	685	0.39	ug/l	# 17
49) 1,4-Dioxane	9.167	88	17593	675.63	ug/l	# 85
71) Bromoform	12.380	173	511	0.21	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.363	83	937	0.25	ug/l	# 76
76) 1,2,3-Trichloropropane	12.376	75	106376	31.57	ug/l	# 100
81) trans-1,4-Dichloro-2-b...	12.376	75	106376	87.84	ug/l	# 21
86) p-Isopropyltoluene	13.418	119	2056	1.23	ug/l	84
90) Hexachloroethane	13.965	117	476	0.24	ug/l	# 9
96) 1,2,3-Trichlorobenzene	15.527	180	31	4.02	ug/l	# 12

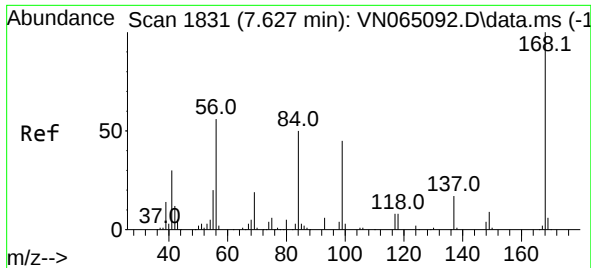
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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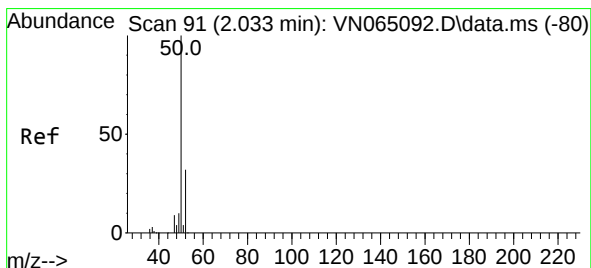
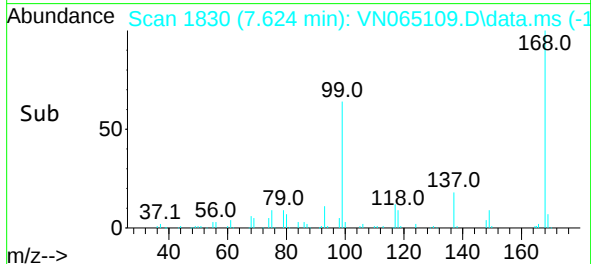
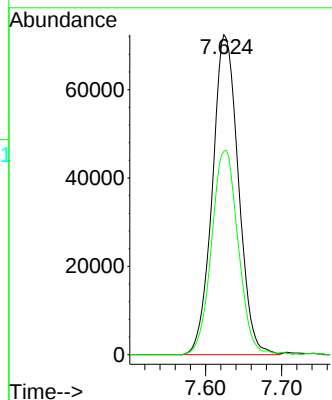
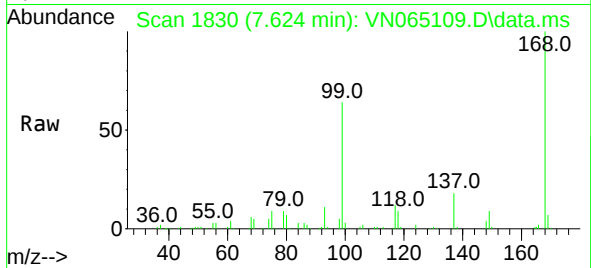




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.624 min Scan# 1830
Delta R.T. -0.003 min
Lab File: VN065109.D
Acq: 14 Dec 2020 18:41

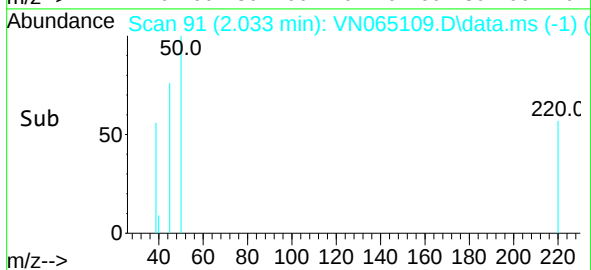
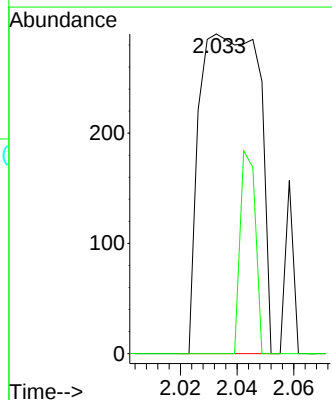
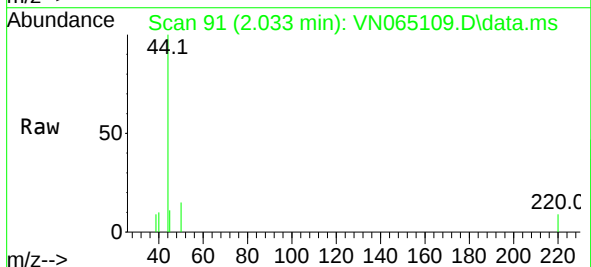
Instrument :
MSVOA_N
ClientSampled :
MW-2

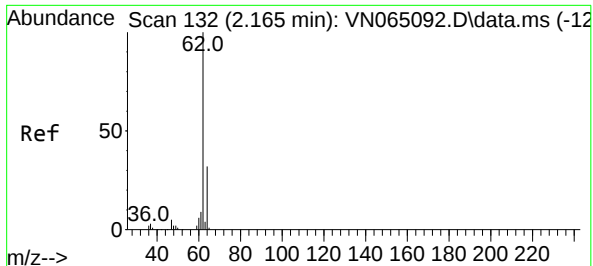
Tgt Ion:168 Resp: 171830
Ion Ratio Lower Upper
168 100
99 63.6 43.0 64.4



#3
Chloromethane
Concen: Below Cal
RT: 2.033 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN065109.D
Acq: 14 Dec 2020 18:41

Tgt Ion: 50 Resp: 419
Ion Ratio Lower Upper
50 100
52 0.0 26.6 39.8#

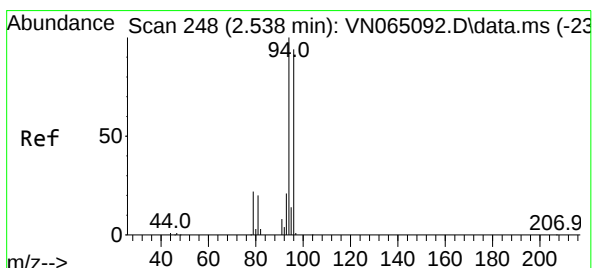
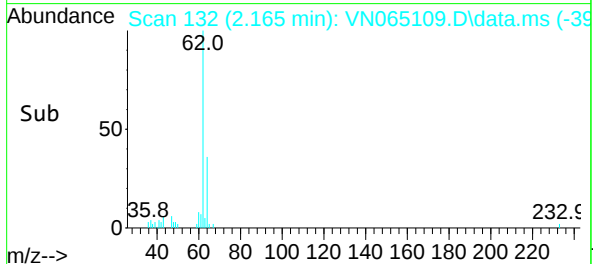
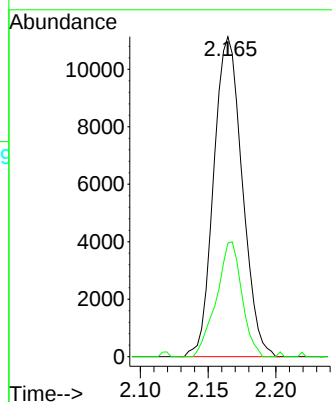
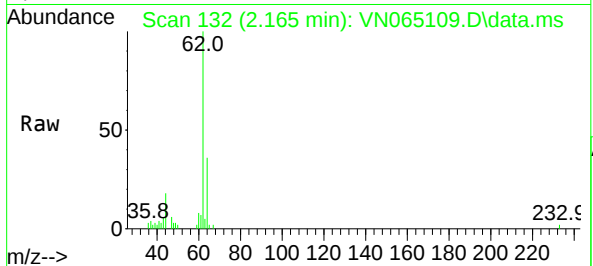




#4
 Vinyl Chloride
 Concen: 10.23 ug/l
 RT: 2.165 min Scan# 132
 Delta R.T. -0.000 min
 Lab File: VN065109.D
 Acq: 14 Dec 2020 18:41

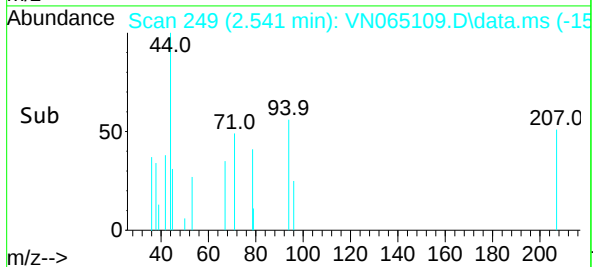
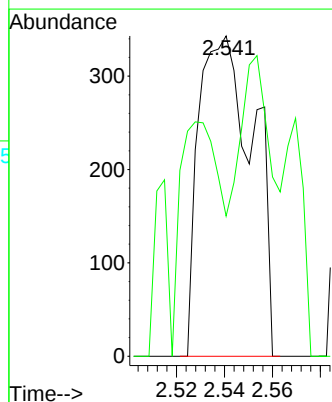
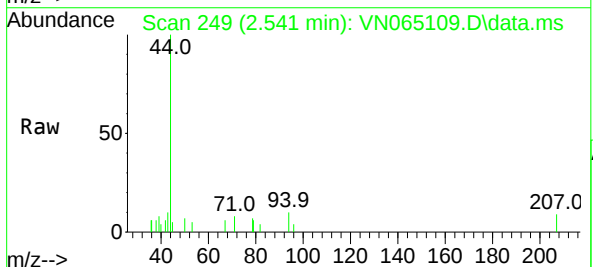
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2

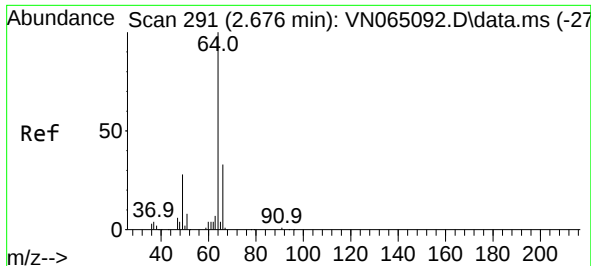
Tgt Ion: 62 Resp: 16310
 Ion Ratio Lower Upper
 62 100
 64 35.5 26.5 39.7



#5
 Bromomethane
 Concen: Below Cal
 RT: 2.541 min Scan# 249
 Delta R.T. 0.003 min
 Lab File: VN065109.D
 Acq: 14 Dec 2020 18:41

Tgt Ion: 94 Resp: 539
 Ion Ratio Lower Upper
 94 100
 96 0.0 75.4 113.0#

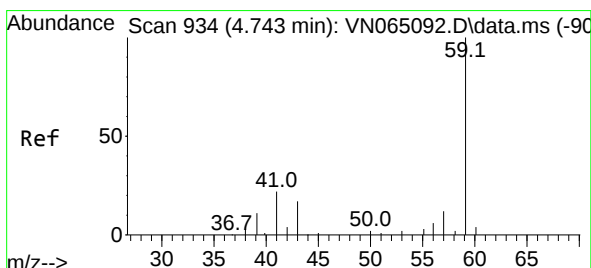
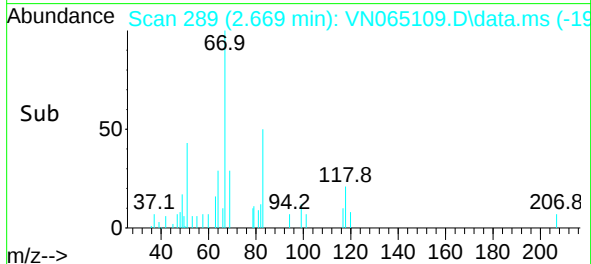
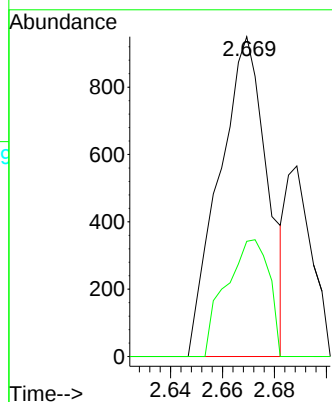
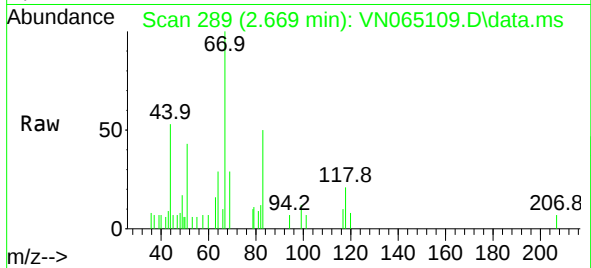




#6
Chloroethane
Concen: 1.41 ug/l
RT: 2.669 min Scan# 289
Delta R.T. -0.007 min
Lab File: VN065109.D
Acq: 14 Dec 2020 18:41

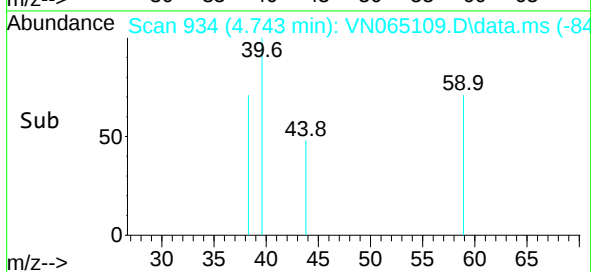
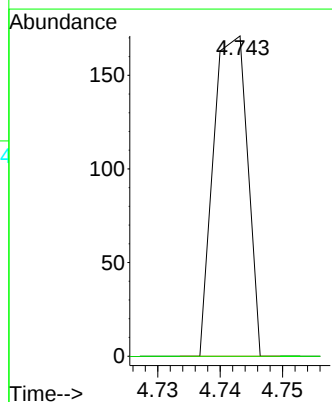
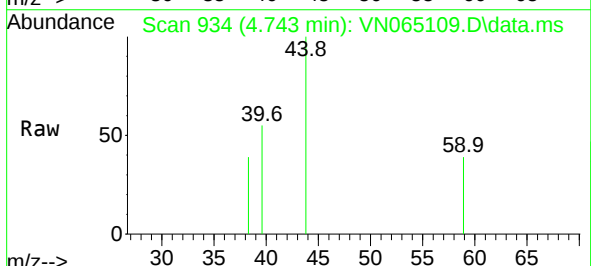
Instrument :
MSVOA_N
ClientSampled :
MW-2

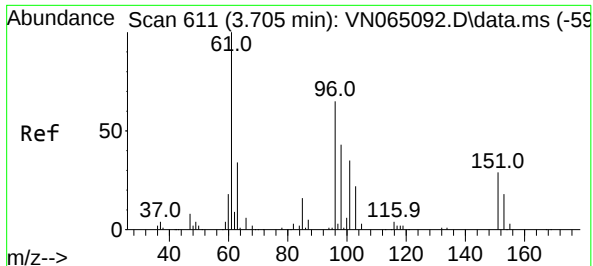
Tgt Ion: 64 Resp: 1217
Ion Ratio Lower Upper
64 100
66 36.0 25.6 38.4



#11
Tert butyl alcohol
Concen: 0.30 ug/l
RT: 4.743 min Scan# 934
Delta R.T. 0.000 min
Lab File: VN065109.D
Acq: 14 Dec 2020 18:41

Tgt Ion: 59 Resp: 64
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#

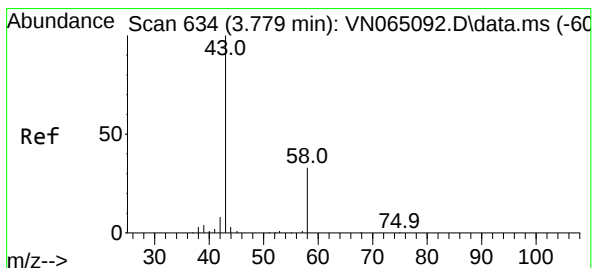
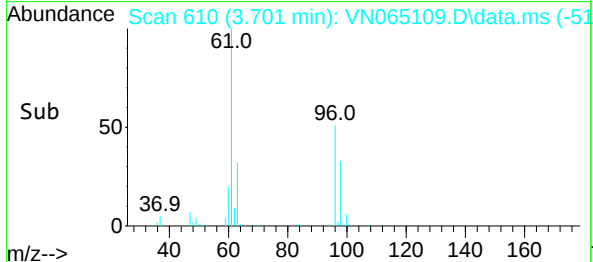
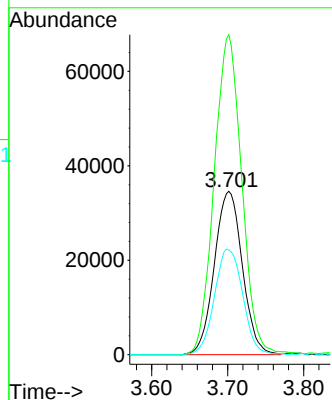
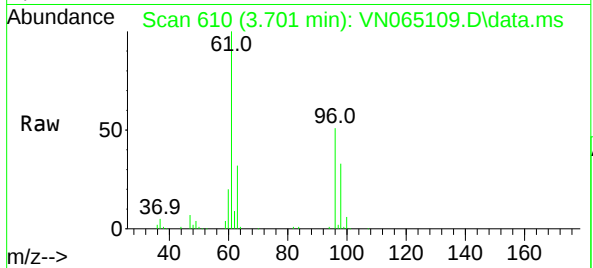




#12
1,1-Dichloroethene
Concen: 56.07 ug/l
RT: 3.701 min Scan# 610
Delta R.T. -0.004 min
Lab File: VN065109.D
Acq: 14 Dec 2020 18:41

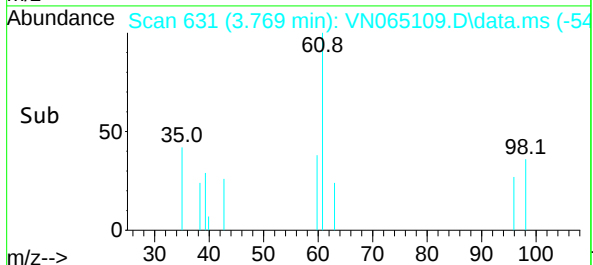
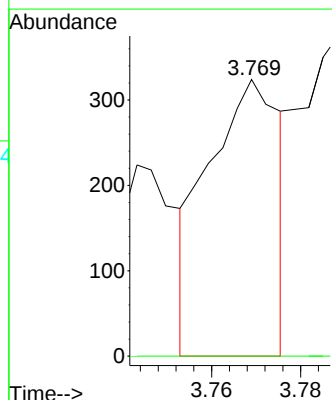
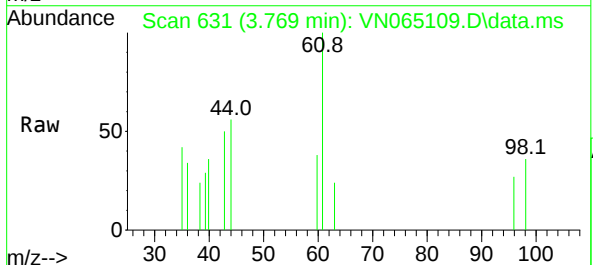
Instrument :
MSVOA_N
ClientSampled :
MW-2

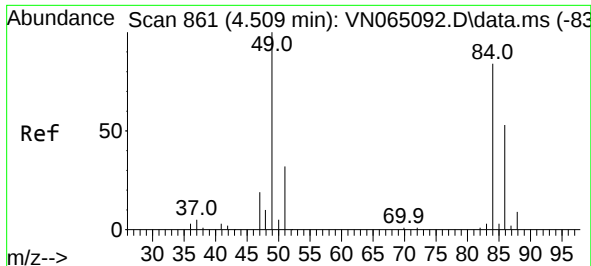
Tgt Ion: 96 Resp: 88707
Ion Ratio Lower Upper
96 100
61 195.9 123.4 185.2#
98 64.2 49.8 74.8



#16
Acetone
Concen: 0.49 ug/l
RT: 3.769 min Scan# 631
Delta R.T. -0.010 min
Lab File: VN065109.D
Acq: 14 Dec 2020 18:41

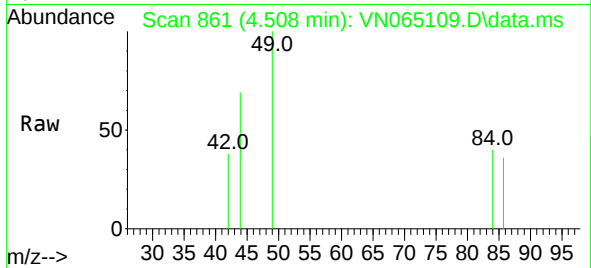
Tgt Ion: 43 Resp: 360
Ion Ratio Lower Upper
43 100
58 0.0 25.7 38.5#





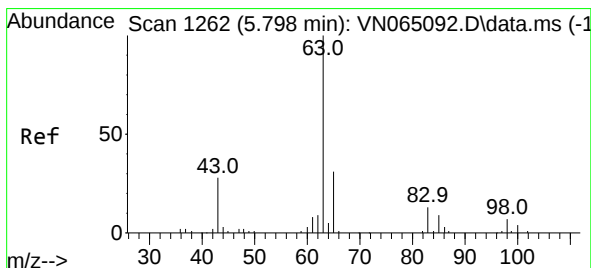
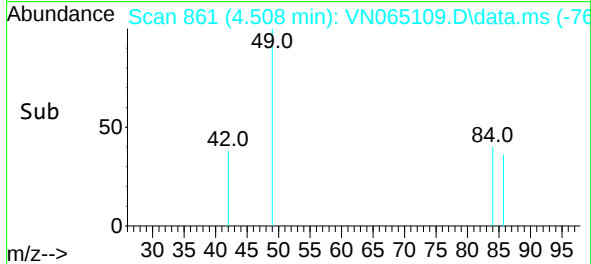
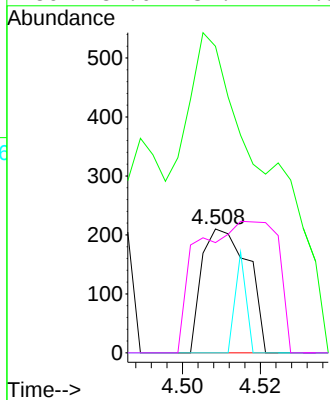
#20
Methylene Chloride
Concen: Below Cal
RT: 4.508 min Scan# 861
Delta R.T. -0.001 min
Lab File: VN065109.D
Acq: 14 Dec 2020 18:41

Instrument :
MSVOA_N
ClientSampled :
MW-2



Tgt Ion: 84 Resp: 173

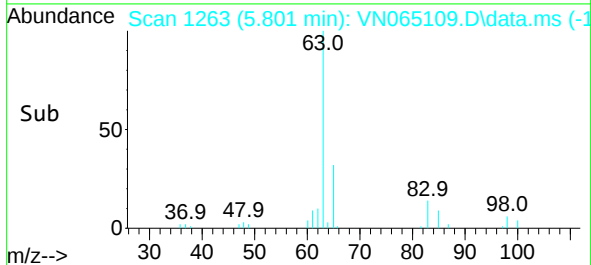
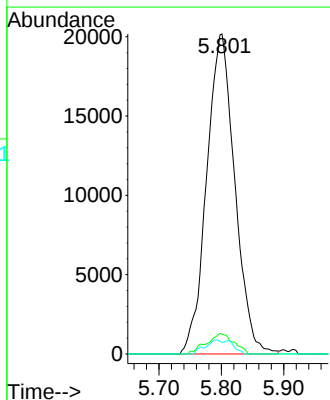
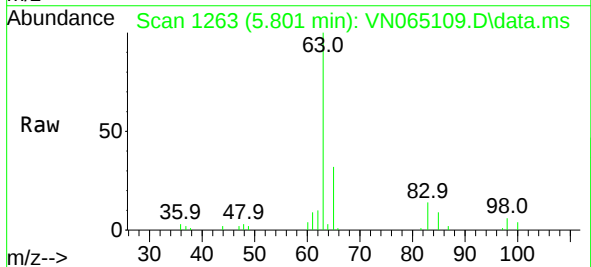
Ion	Ratio	Lower	Upper
84	100		
49	94.3	93.4	140.0
51	0.0	28.2	42.4#
86	89.0	51.7	77.5#

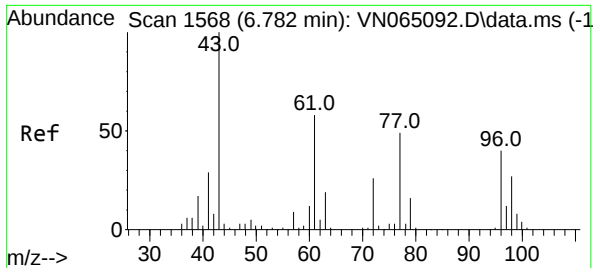


#24
1,1-Dichloroethane
Concen: 20.60 ug/l
RT: 5.801 min Scan# 1263
Delta R.T. 0.003 min
Lab File: VN065109.D
Acq: 14 Dec 2020 18:41

Tgt Ion: 63 Resp: 63315

Ion	Ratio	Lower	Upper
63	100		
98	6.1	3.5	10.5
100	3.6	2.3	6.8

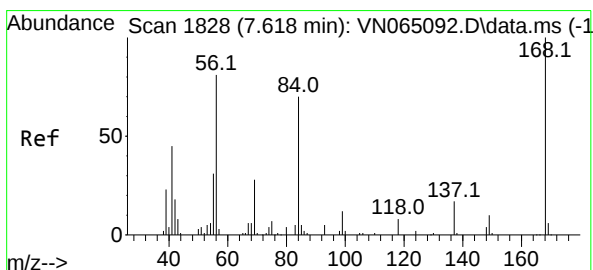
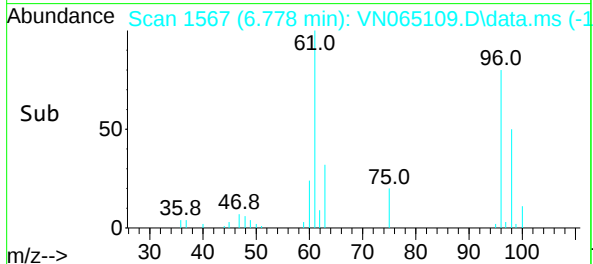
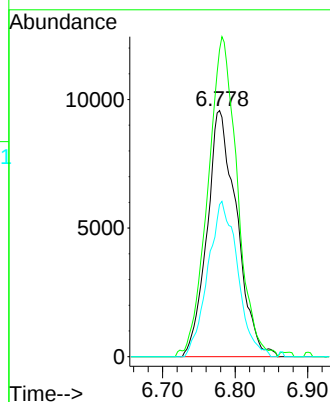
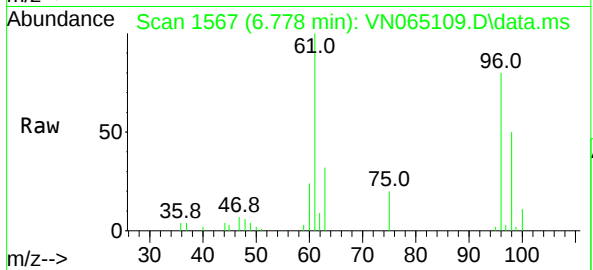




#27
 cis-1,2-Dichloroethene
 Concen: 14.52 ug/l
 RT: 6.778 min Scan# 1567
 Delta R.T. -0.004 min
 Lab File: VN065109.D
 Acq: 14 Dec 2020 18:41

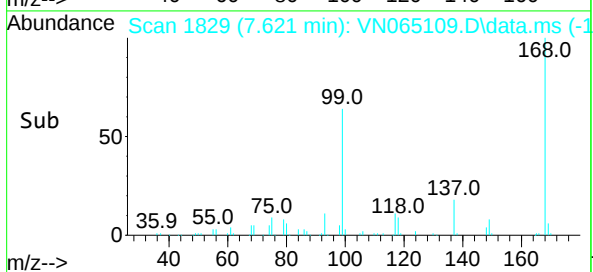
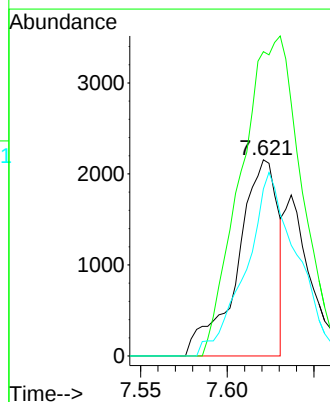
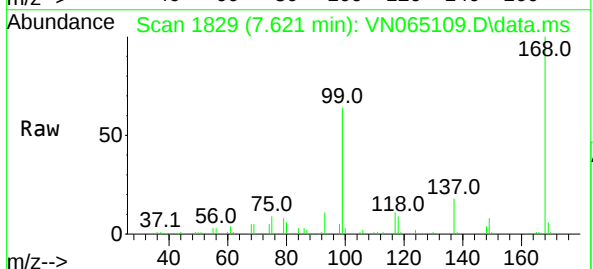
Instrument :
 MSVOA_N
 ClientSampled :
 MW-2

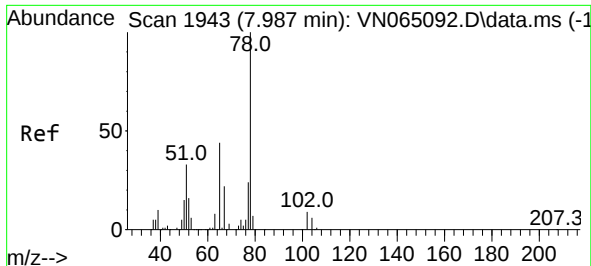
Tgt Ion: 96	Resp: 27179
Ion Ratio	Lower Upper
96 100	
61 129.0	0.0 285.8
98 63.4	0.0 130.6



#31
 Cyclohexane
 Concen: 1.30 ug/l
 RT: 7.621 min Scan# 1829
 Delta R.T. 0.003 min
 Lab File: VN065109.D
 Acq: 14 Dec 2020 18:41

Tgt Ion: 56	Resp: 3485
Ion Ratio	Lower Upper
56 100	
69 155.1	27.5 41.3#
84 85.2	73.9 110.9

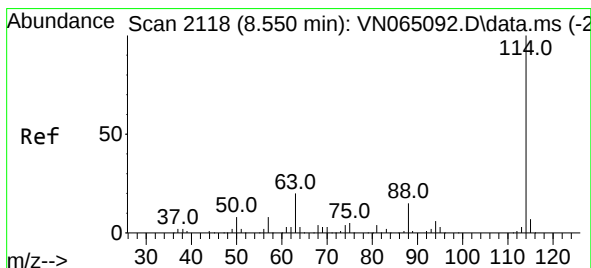
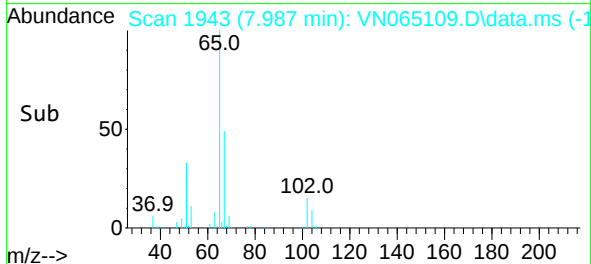
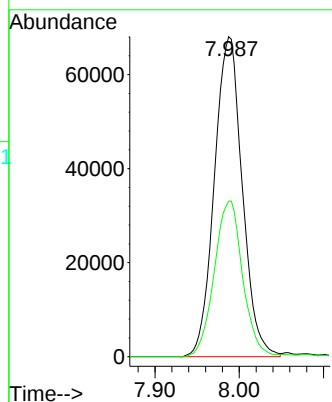
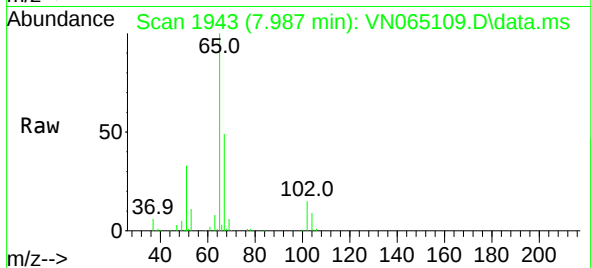




#33
1,2-Dichloroethane-d4
Concen: 79.11 ug/l
RT: 7.987 min Scan# 1943
Delta R.T. 0.000 min
Lab File: VN065109.D
Acq: 14 Dec 2020 18:41

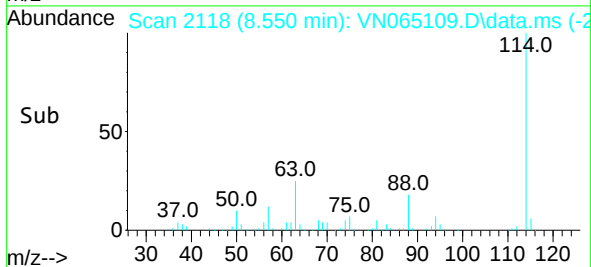
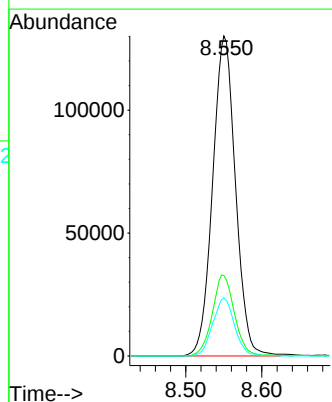
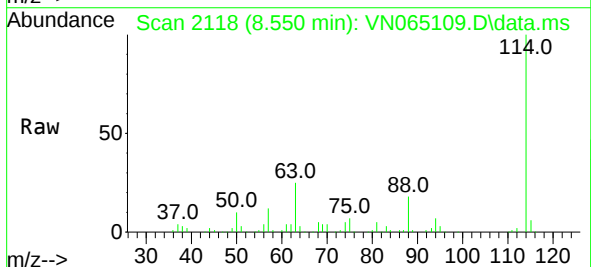
Instrument :
MSVOA_N
ClientSampled :
MW-2

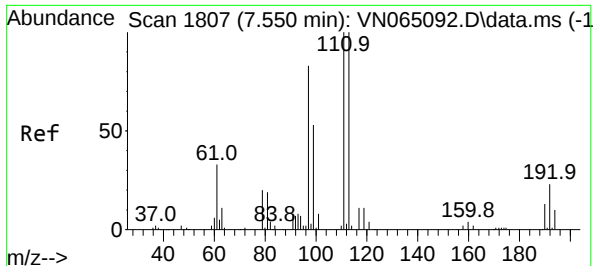
Tgt Ion: 65 Resp: 156274
Ion Ratio Lower Upper
65 100
67 49.4 0.0 108.2



#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.550 min Scan# 2118
Delta R.T. 0.000 min
Lab File: VN065109.D
Acq: 14 Dec 2020 18:41

Tgt Ion: 114 Resp: 271554
Ion Ratio Lower Upper
114 100
63 25.2 0.0 38.6
88 18.1 0.0 32.6

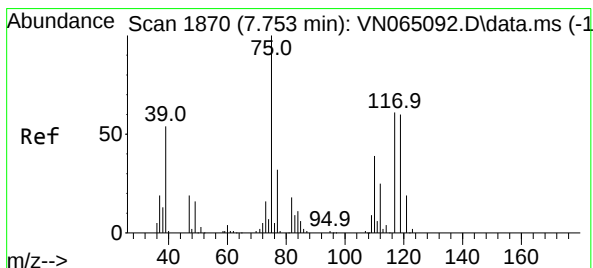
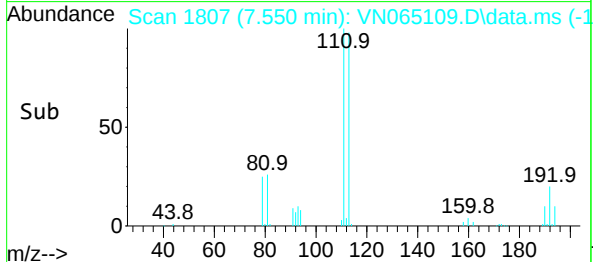
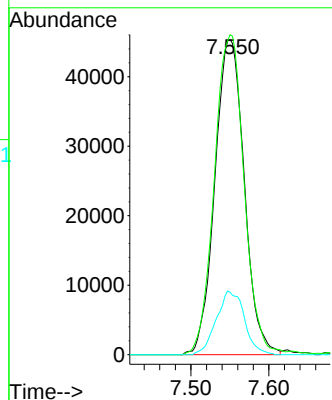
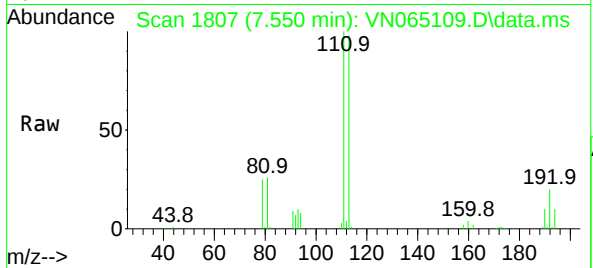




#35
Dibromofluoromethane
Concen: 62.84 ug/l
RT: 7.550 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VN065109.D
Acq: 14 Dec 2020 18:41

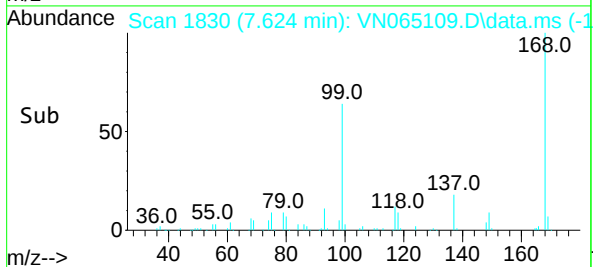
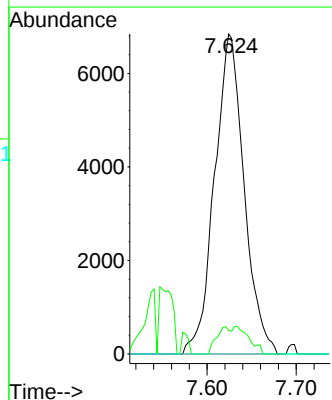
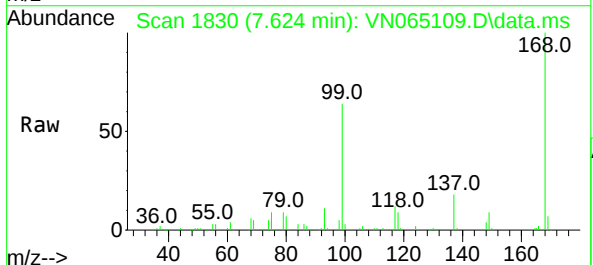
Instrument :
MSVOA_N
ClientSampled :
MW-2

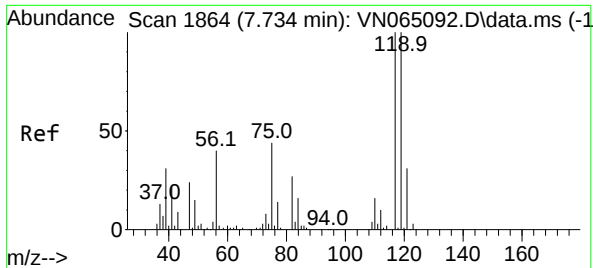
Tgt Ion:113 Resp: 118618
Ion Ratio Lower Upper
113 100
111 102.7 81.6 122.4
192 19.3 16.2 24.2



#36
1,1-Dichloropropene
Concen: 6.07 ug/l
RT: 7.624 min Scan# 1830
Delta R.T. -0.129 min
Lab File: VN065109.D
Acq: 14 Dec 2020 18:41

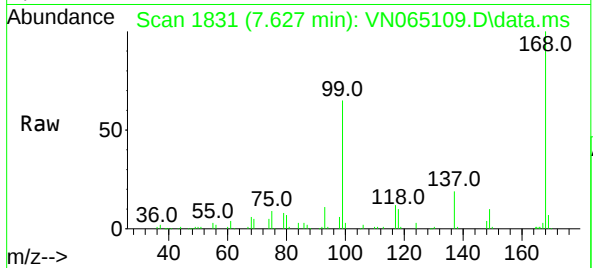
Tgt Ion: 75 Resp: 15751
Ion Ratio Lower Upper
75 100
110 4.3 17.8 53.3#
77 0.0 25.0 37.4#



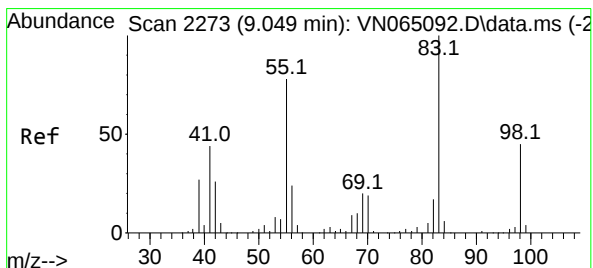
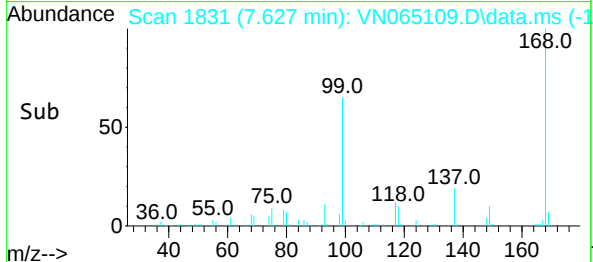
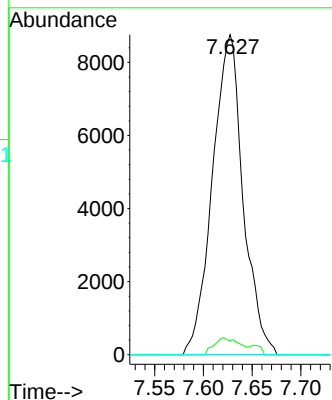


#38
Carbon Tetrachloride
Concen: 6.40 ug/l
RT: 7.627 min Scan# 1831
Delta R.T. -0.107 min
Lab File: VN065109.D
Acq: 14 Dec 2020 18:41

Instrument :
MSVOA_N
ClientSampled :
MW-2

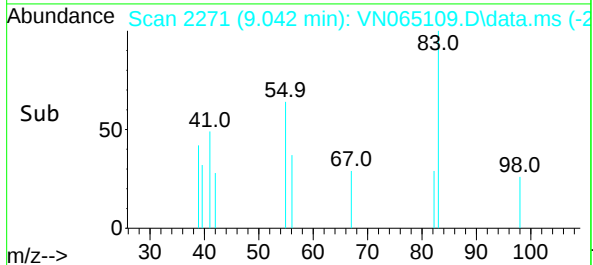
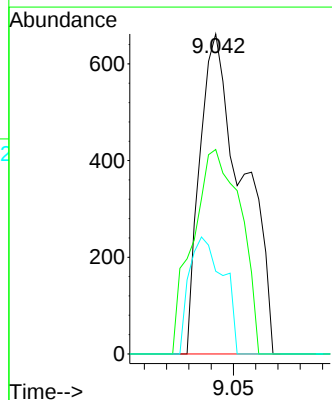
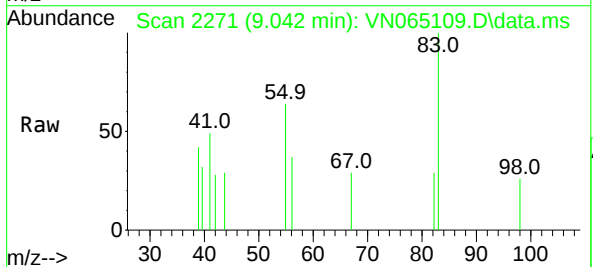


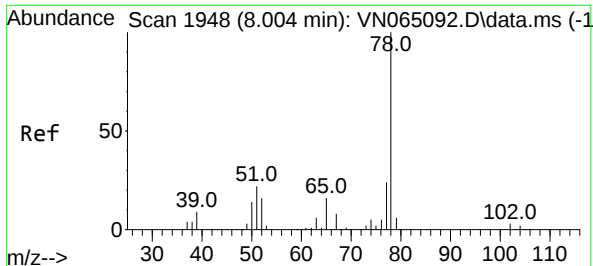
Tgt Ion:117 Resp: 19156
Ion Ratio Lower Upper
117 100
119 4.4 76.7 115.1#
121 0.0 25.4 38.2#



#39
Methylcyclohexane
Concen: 0.31 ug/l
RT: 9.042 min Scan# 2271
Delta R.T. -0.007 min
Lab File: VN065109.D
Acq: 14 Dec 2020 18:41

Tgt Ion: 83 Resp: 885
Ion Ratio Lower Upper
83 100
55 63.9 60.2 90.2
98 25.8 37.4 56.2#

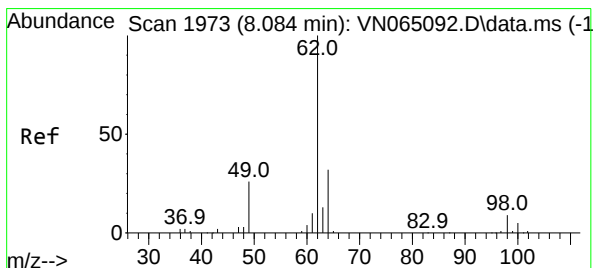
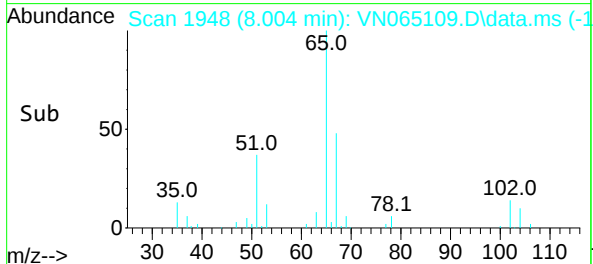
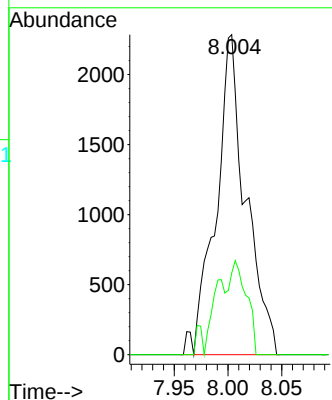
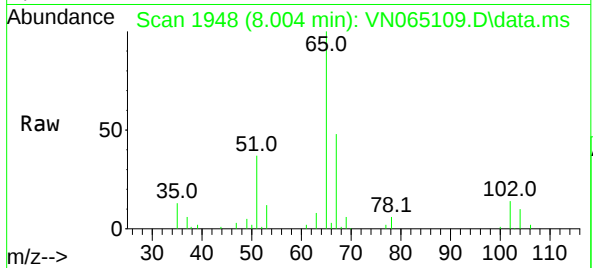




#40
Benzene
Concen: 0.58 ug/l
RT: 8.004 min Scan# 1948
Delta R.T. -0.000 min
Lab File: VN065109.D
Acq: 14 Dec 2020 18:41

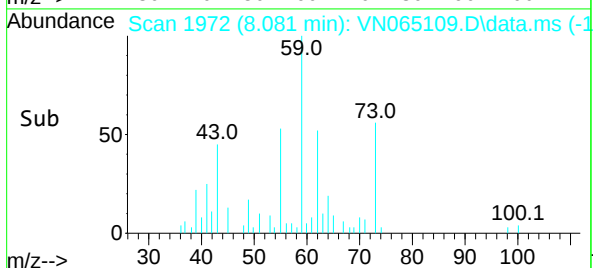
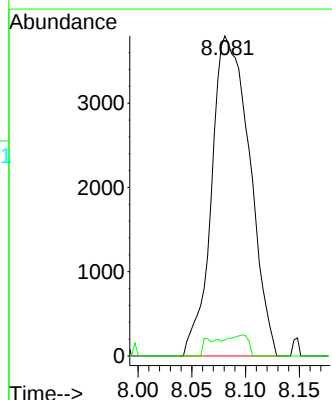
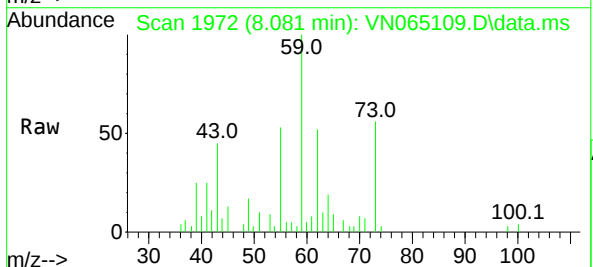
Instrument :
MSVOA_N
ClientSampled :
MW-2

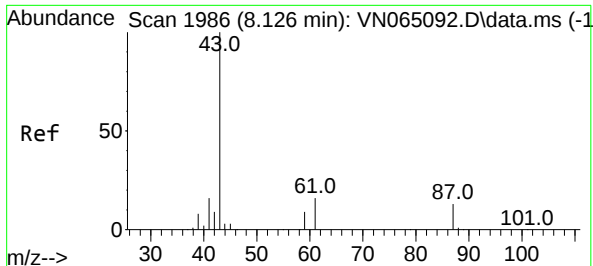
Tgt Ion: 78 Resp: 4401
Ion Ratio Lower Upper
78 100
77 25.5 17.9 26.9



#42
1,2-Dichloroethane
Concen: 3.40 ug/l
RT: 8.081 min Scan# 1972
Delta R.T. -0.003 min
Lab File: VN065109.D
Acq: 14 Dec 2020 18:41

Tgt Ion: 62 Resp: 9333
Ion Ratio Lower Upper
62 100
98 1.2 0.0 19.6



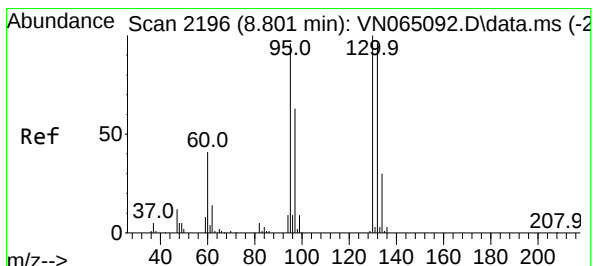
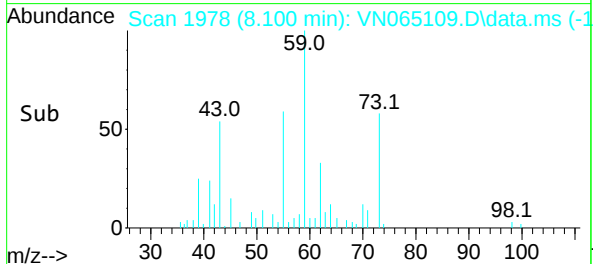
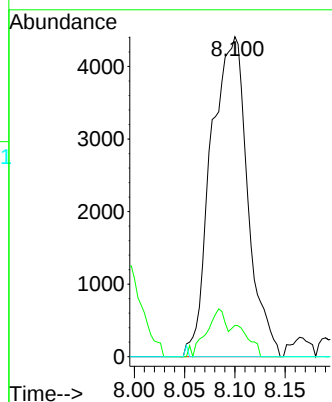
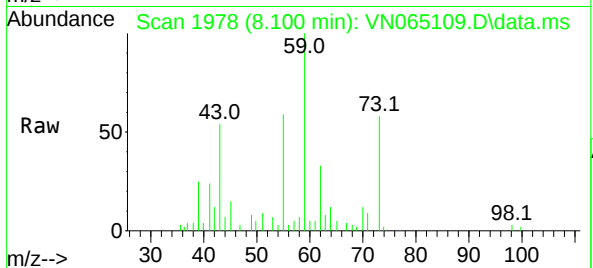


#43

Isopropyl Acetate
 Concen: 3.06 ug/l
 RT: 8.100 min Scan# 1978
 Delta R.T. -0.026 min
 Lab File: VN065109.D
 Acq: 14 Dec 2020 18:41

Instrument :
 MSVOA_N
 ClientSampled :
 MW-2

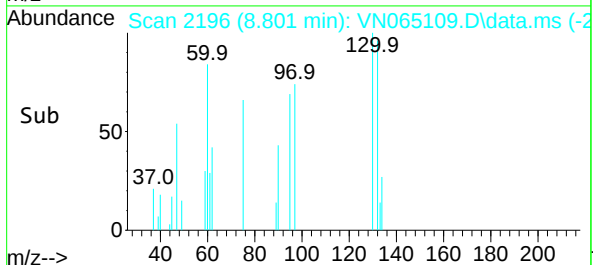
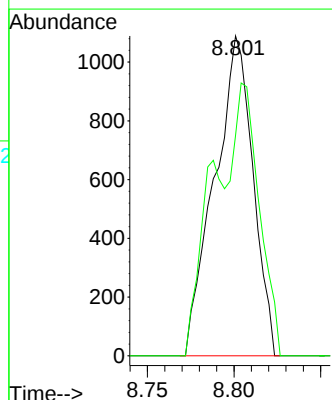
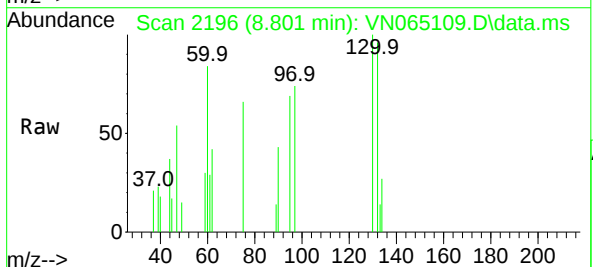
Tgt Ion: 43 Resp: 11165
 Ion Ratio Lower Upper
 43 100
 61 8.1 17.2 25.8#
 87 0.0 11.4 17.0#

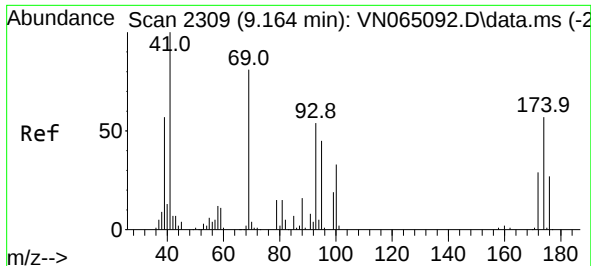


#44

Trichloroethene
 Concen: 0.75 ug/l
 RT: 8.801 min Scan# 2196
 Delta R.T. -0.000 min
 Lab File: VN065109.D
 Acq: 14 Dec 2020 18:41

Tgt Ion: 130 Resp: 1680
 Ion Ratio Lower Upper
 130 100
 95 69.0 0.0 197.8





#48

Methyl methacrylate

Concen: 0.39 ug/l

RT: 9.167 min Scan# 2310

Delta R.T. 0.003 min

Lab File: VN065109.D

Acq: 14 Dec 2020 18:41

Tgt Ion: 41 Resp: 685

Ion Ratio Lower Upper

41 100

69 0.0 71.8 107.8#

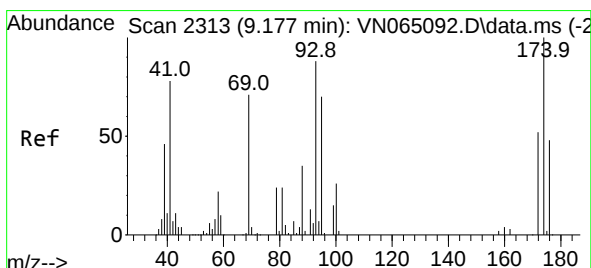
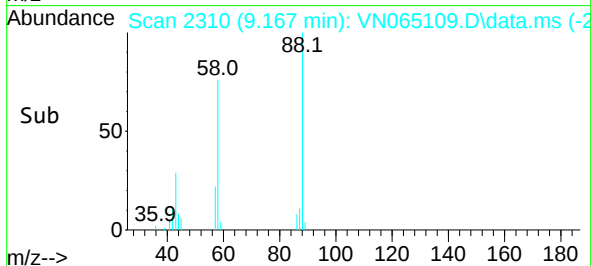
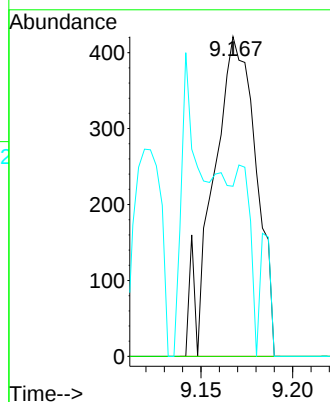
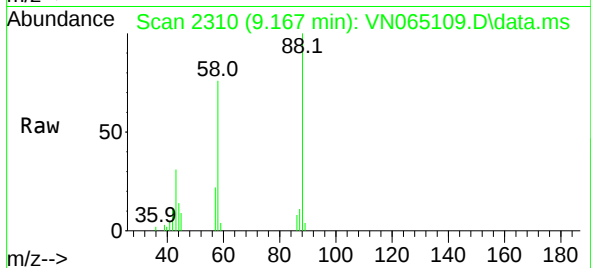
39 9.1 44.1 66.1#

Instrument :

MSVOA_N

ClientSampled :

MW-2



#49

1,4-Dioxane

Concen: 675.63 ug/l

RT: 9.167 min Scan# 2310

Delta R.T. -0.010 min

Lab File: VN065109.D

Acq: 14 Dec 2020 18:41

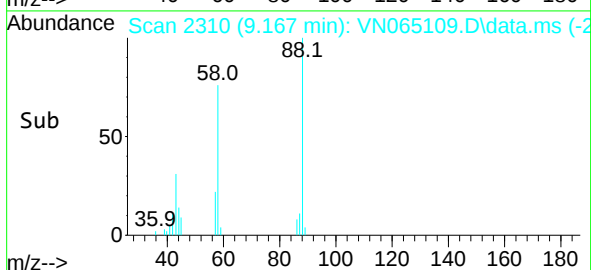
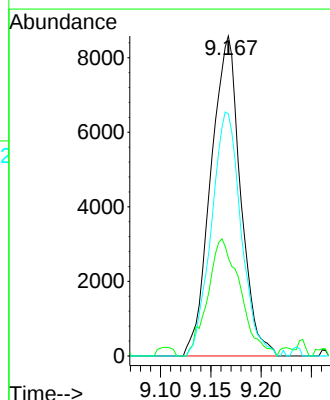
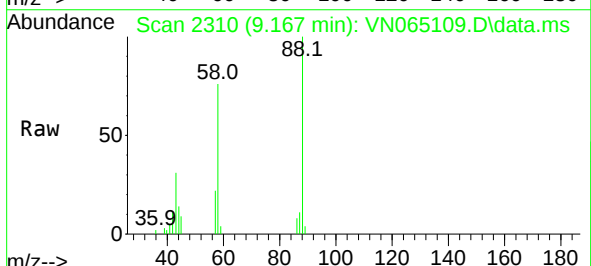
Tgt Ion: 88 Resp: 17593

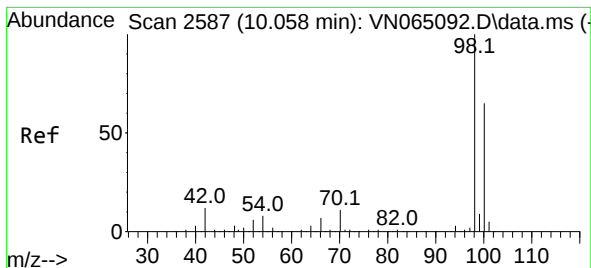
Ion Ratio Lower Upper

88 100

43 40.2 24.2 36.4#

58 76.3 52.5 78.7

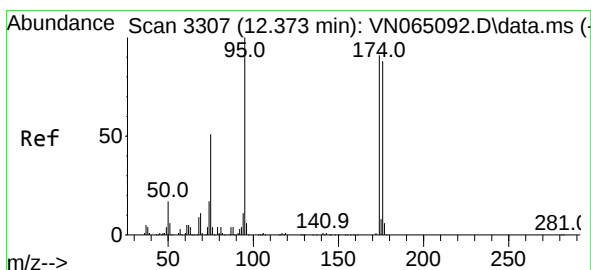
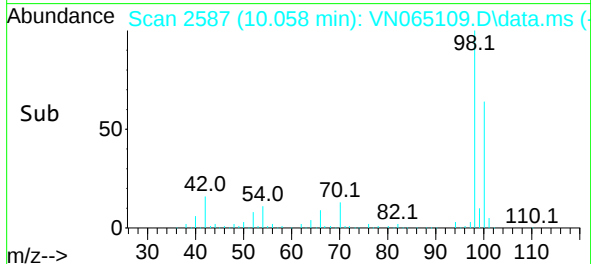
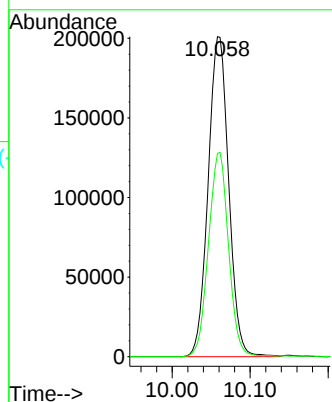
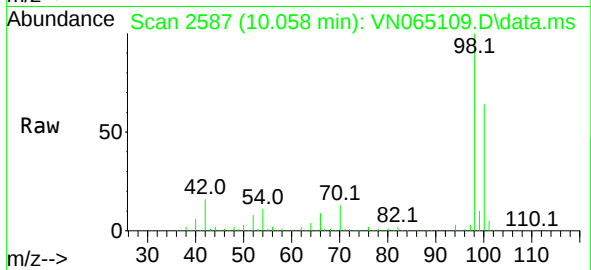




#50
Toluene-d8
Concen: 55.20 ug/l
RT: 10.058 min Scan# 2587
Delta R.T. 0.000 min
Lab File: VN065109.D
Acq: 14 Dec 2020 18:41

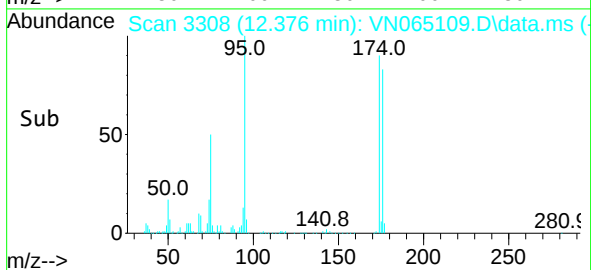
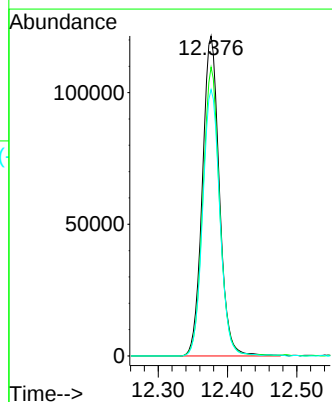
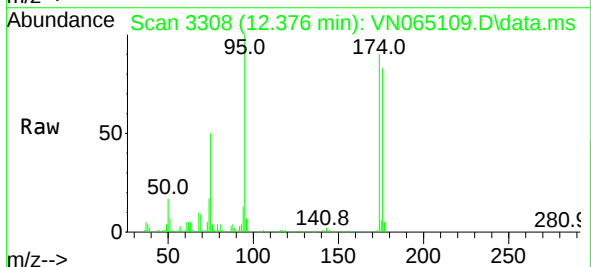
Instrument :
MSVOA_N
ClientSampled :
MW-2

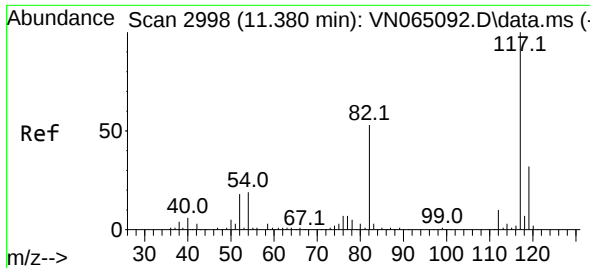
Tgt Ion: 98 Resp: 368412
Ion Ratio Lower Upper
98 100
100 62.1 51.7 77.5



#62
4-Bromofluorobenzene
Concen: 89.81 ug/l
RT: 12.376 min Scan# 3308
Delta R.T. 0.003 min
Lab File: VN065109.D
Acq: 14 Dec 2020 18:41

Tgt Ion: 95 Resp: 206447
Ion Ratio Lower Upper
95 100
174 88.5 0.0 160.4
176 84.2 0.0 158.4

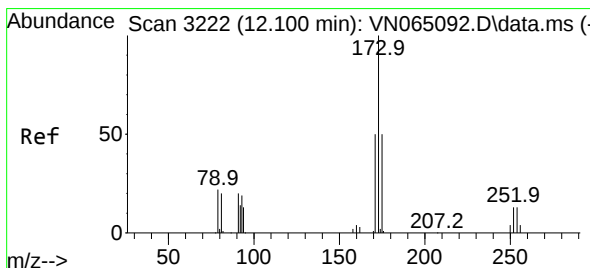
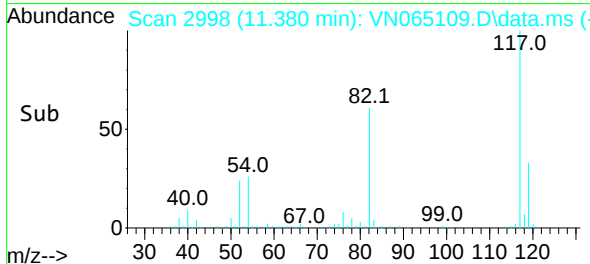
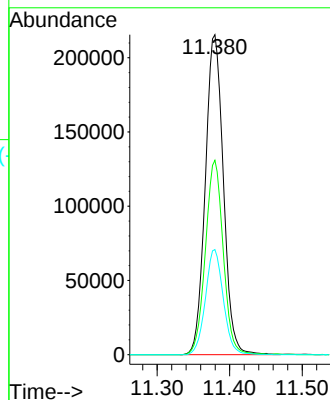
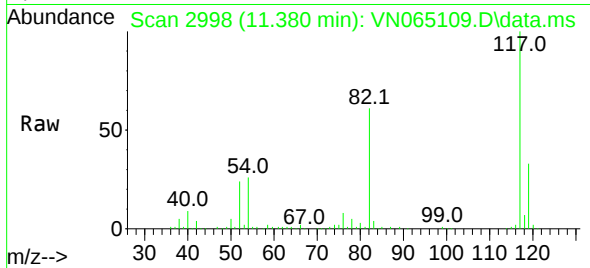




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.380 min Scan# 2998
Delta R.T. -0.000 min
Lab File: VN065109.D
Acq: 14 Dec 2020 18:41

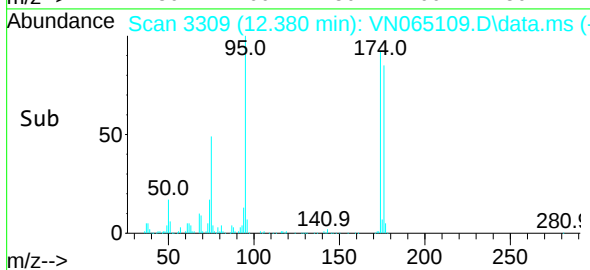
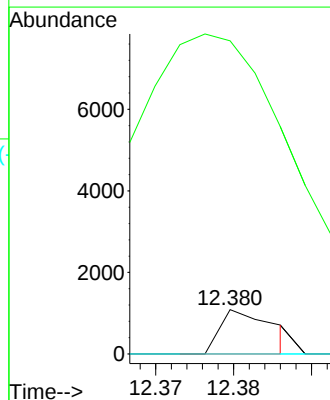
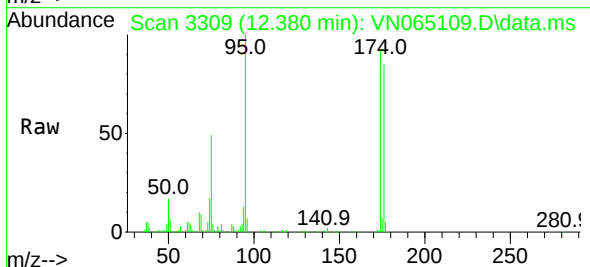
Instrument :
MSVOA_N
ClientSampled :
MW-2

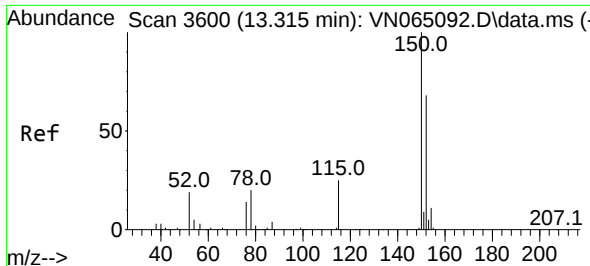
Tgt Ion:117 Resp: 373305
Ion Ratio Lower Upper
117 100
82 60.7 44.2 66.2
119 32.8 25.8 38.6



#71
Bromoform
Concen: 0.21 ug/l
RT: 12.380 min Scan# 3309
Delta R.T. 0.280 min
Lab File: VN065109.D
Acq: 14 Dec 2020 18:41

Tgt Ion:173 Resp: 511
Ion Ratio Lower Upper
173 100
175 2177.3 24.3 72.8#
254 0.0 0.0 0.0

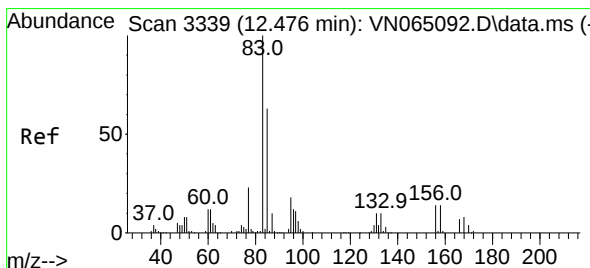
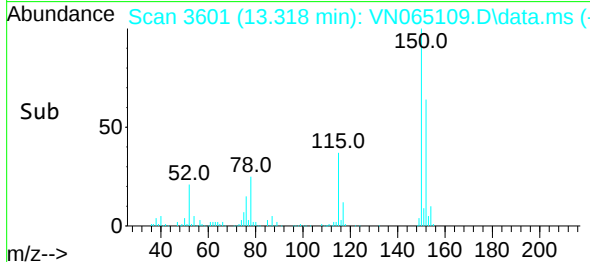
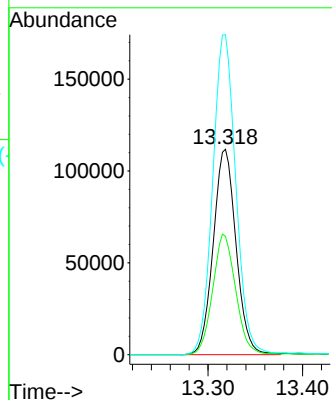
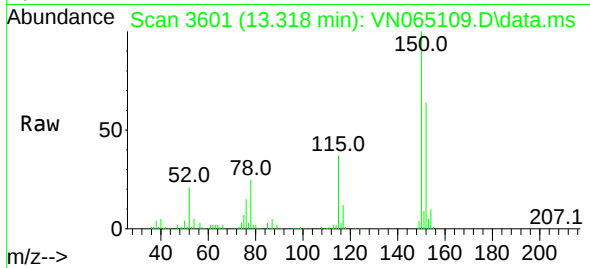




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.318 min Scan# 3601
Delta R.T. 0.003 min
Lab File: VN065109.D
Acq: 14 Dec 2020 18:41

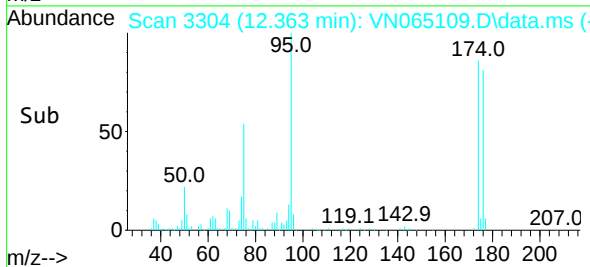
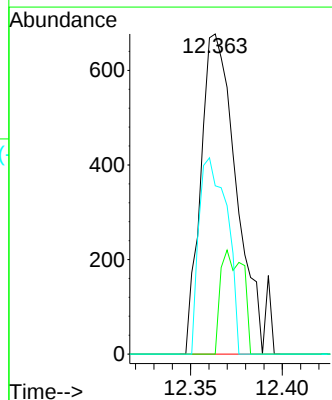
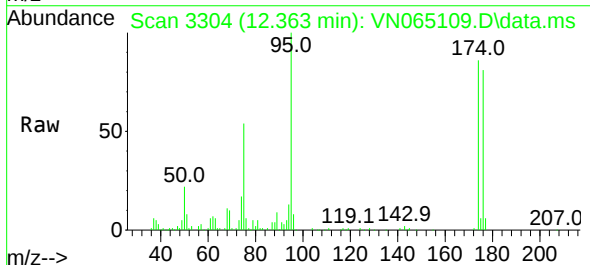
Instrument :
MSVOA_N
ClientSampled :
MW-2

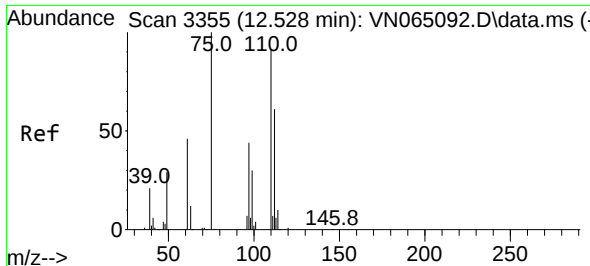
Tgt Ion:152 Resp: 187787
Ion Ratio Lower Upper
152 100
115 59.0 29.7 89.1
150 157.2 0.0 350.6



#75
1,1,2,2-Tetrachloroethane
Concen: 0.25 ug/l
RT: 12.363 min Scan# 3304
Delta R.T. -0.113 min
Lab File: VN065109.D
Acq: 14 Dec 2020 18:41

Tgt Ion: 83 Resp: 937
Ion Ratio Lower Upper
83 100
131 19.7 5.1 15.3#
85 47.3 33.0 99.0

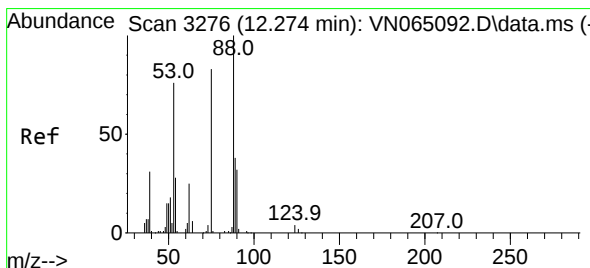
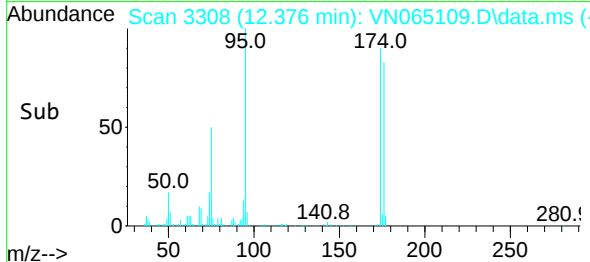
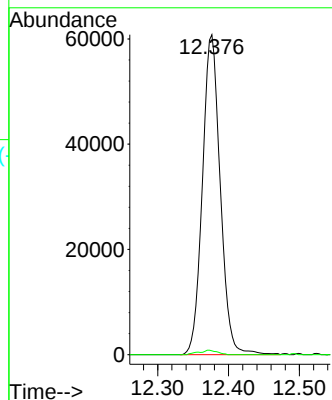
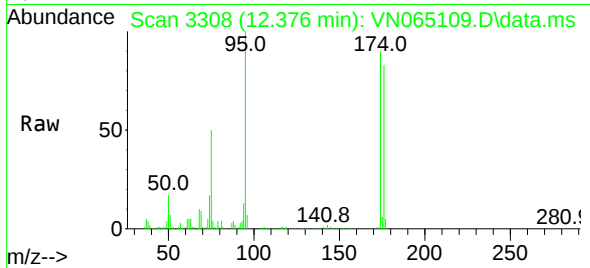




#76
1,2,3-Trichloropropane
Concen: 31.57 ug/l
RT: 12.376 min Scan# 3308
Delta R.T. -0.152 min
Lab File: VN065109.D
Acq: 14 Dec 2020 18:41

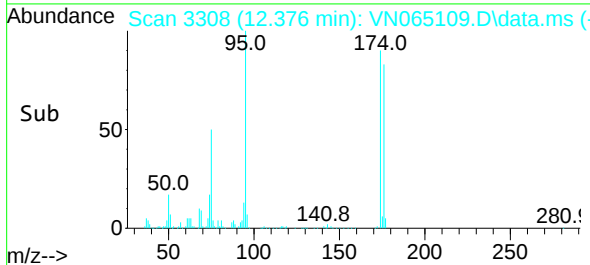
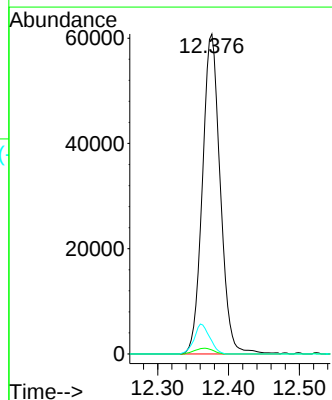
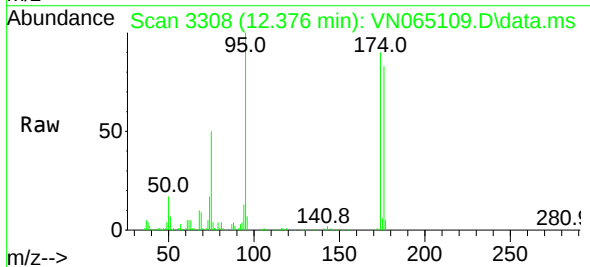
Instrument :
MSVOA_N
ClientSampled :
MW-2

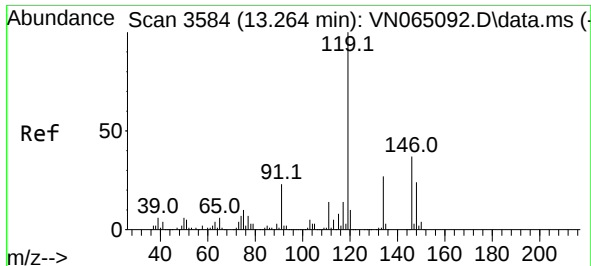
Tgt Ion: 75 Resp: 106376
Ion Ratio Lower Upper
75 100
77 1.4 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 87.84 ug/l
RT: 12.376 min Scan# 3308
Delta R.T. 0.102 min
Lab File: VN065109.D
Acq: 14 Dec 2020 18:41

Tgt Ion: 75 Resp: 106376
Ion Ratio Lower Upper
75 100
53 1.9 67.0 100.4#
89 8.1 39.6 59.4#

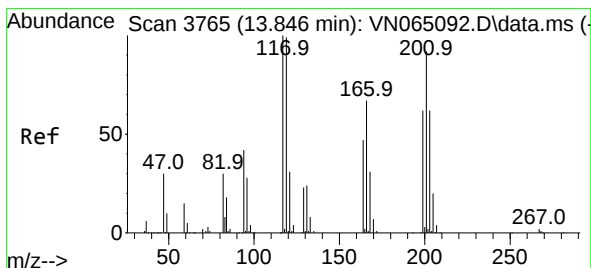
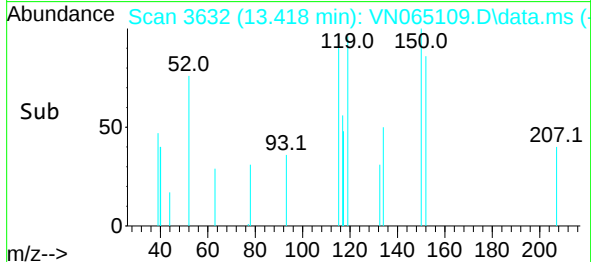
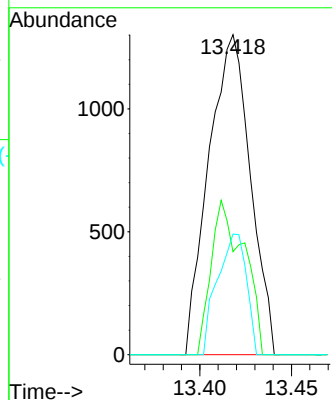
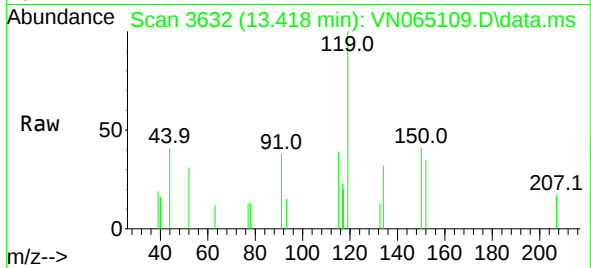




#86
p-Isopropyltoluene
Concen: 1.23 ug/l
RT: 13.418 min Scan# 3632
Delta R.T. 0.154 min
Lab File: VN065109.D
Acq: 14 Dec 2020 18:41

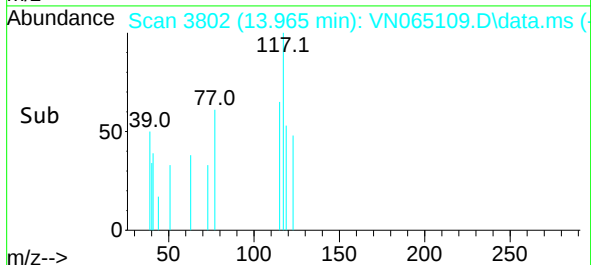
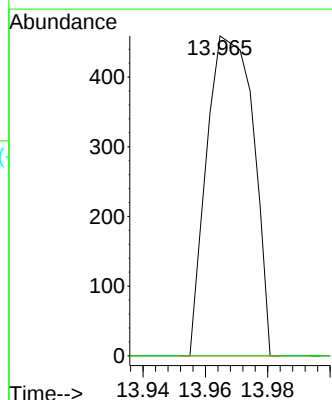
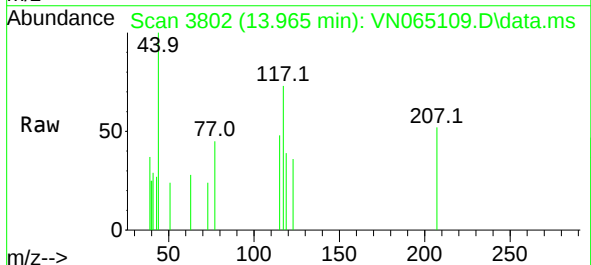
Instrument :
MSVOA_N
ClientSampleId :
MW-2

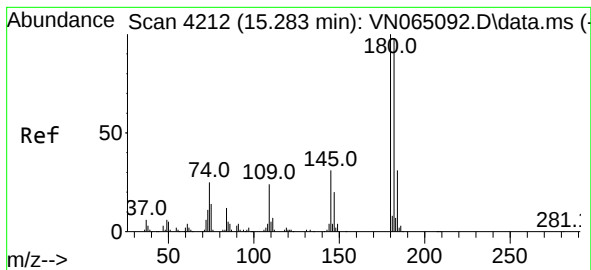
Tgt Ion:119 Resp: 2056
Ion Ratio Lower Upper
119 100
134 38.1 13.1 39.1
91 26.3 11.5 34.5



#90
Hexachloroethane
Concen: 0.24 ug/l
RT: 13.965 min Scan# 3802
Delta R.T. 0.119 min
Lab File: VN065109.D
Acq: 14 Dec 2020 18:41

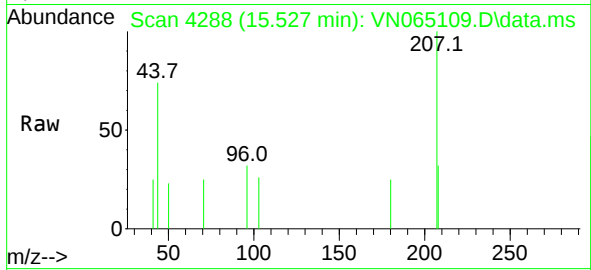
Tgt Ion:117 Resp: 476
Ion Ratio Lower Upper
117 100
201 0.0 40.1 120.3#





#96
 1,2,3-Trichlorobenzene
 Concen: 4.02 ug/l
 RT: 15.527 min Scan# 4288
 Delta R.T. 0.244 min
 Lab File: VN065109.D
 Acq: 14 Dec 2020 18:41

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2



Tgt Ion:180	Resp:	31
Ion	Ratio	Lower Upper
180	100	
182	0.0	48.1 144.4#
145	0.0	16.4 49.1#

