

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN123020\
 Data File : VN065325.D
 Acq On : 30 Dec 2020 17:11
 Operator : JC/MD
 Sample : PB133547ZHE#04
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 31 03:04:23 2020
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122220W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 22 15:42:18 2020
 Response via : Initial Calibration

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

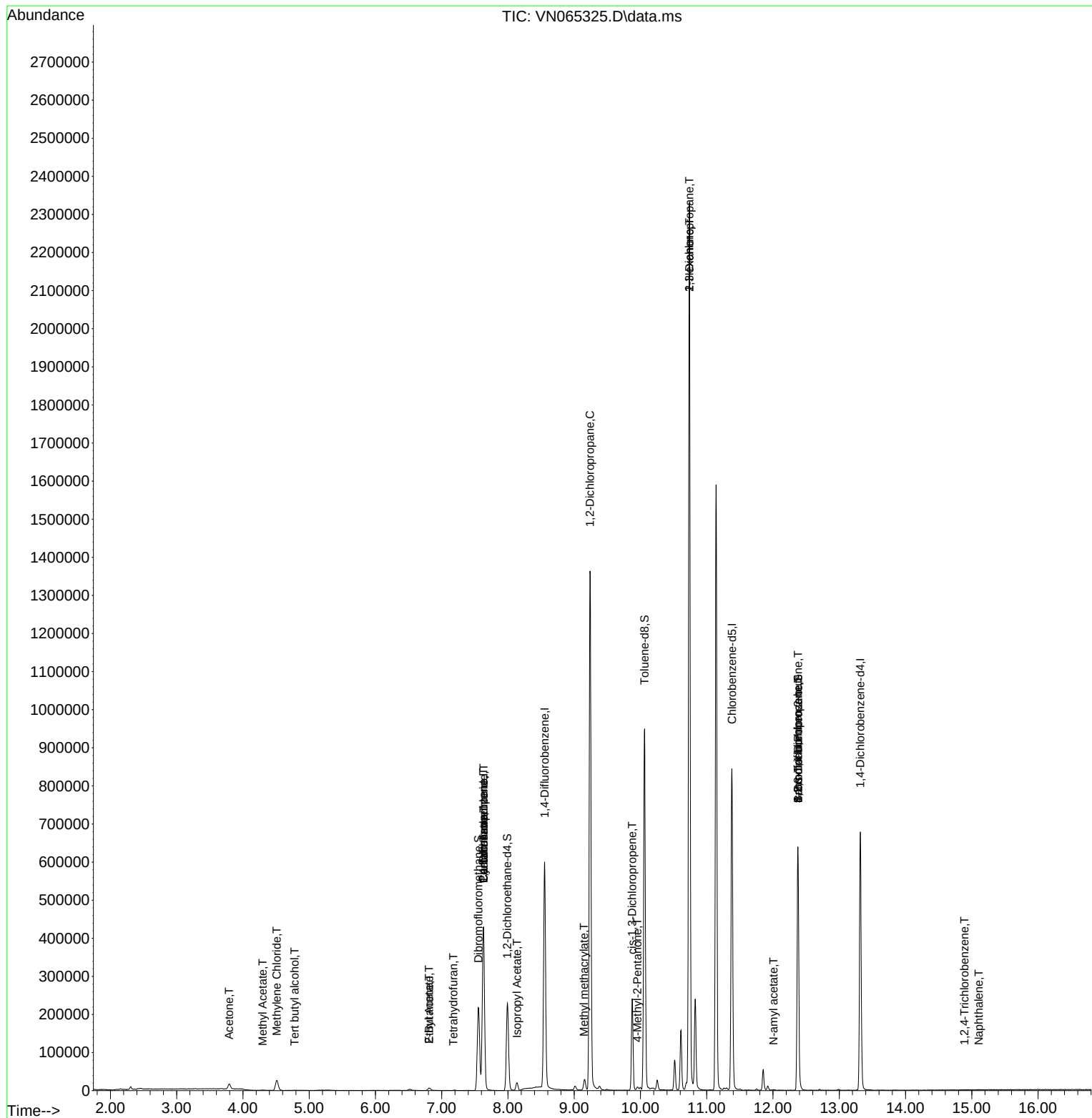
Internal Standards						
1) Pentafluorobenzene	7.631	168	388710	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.553	114	560071	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.380	117	521185	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.318	152	209435	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.991	65	202667	46.18	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	92.36%		
35) Dibromofluoromethane	7.553	113	169465	50.15	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	100.30%		
50) Toluene-d8	10.061	98	675859	53.37	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	106.74%		
62) 4-Bromofluorobenzene	12.376	95	228135	46.00	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	92.00%		
Target Compounds					Qvalue	
11) Tert butyl alcohol	4.779	59	1274	1.77	ug/l #	73
16) Acetone	3.791	43	22170	1.34	ug/l	94
18) Methyl Acetate	4.296	43	1950	0.49	ug/l #	50
20) Methylene Chloride	4.512	84	20674	4.83	ug/l	99
25) 2-Butanone	6.807	43	11221	4.55	ug/l	99
29) Tetrahydrofuran	7.177	42	375	0.24	ug/l #	32
31) Cyclohexane	7.631	56	6555	1.01	ug/l #	1
36) 1,1-Dichloropropene	7.627	75	24668	4.84	ug/l #	50
37) Ethyl Acetate	6.807	43	11221	2.22	ug/l #	66
38) Carbon Tetrachloride	7.631	117	32969	6.16	ug/l #	16
43) Isopropyl Acetate	8.135	43	24956	2.87	ug/l	98
45) 1,2-Dichloropropane	9.238	63	1632	0.41	ug/l #	43
48) Methyl methacrylate	9.148	41	7000	1.66	ug/l #	12
51) 4-Methyl-2-Pentanone	9.952	43	6463	1.32	ug/l	91
54) cis-1,3-Dichloropropene	9.875	75	44843	6.64	ug/l #	61
57) 1,3-Dichloropropane	10.736	76	24657	3.96	ug/l #	42
59) 2-Hexanone	10.736	43	338917	94.25	ug/l #	50
71) Bromoform	12.376	173	1370	0.39	ug/l #	1
74) N-amyl acetate	12.007	43	1322	0.21	ug/l #	42
76) 1,2,3-Trichloropropane	12.376	75	111046	25.99	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.376	75	111046	65.53	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.891	180	31	2.84	ug/l #	12
95) Naphthalene	15.106	128	510	3.42	ug/l #	69

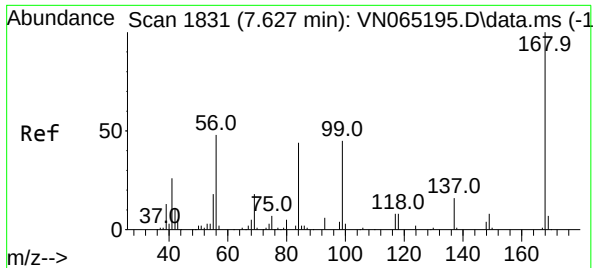
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 31 03:04:23 2020
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122220W.M
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QLast Update : Tue Dec 22 15:42:18 2020
Response via : Initial Calibration

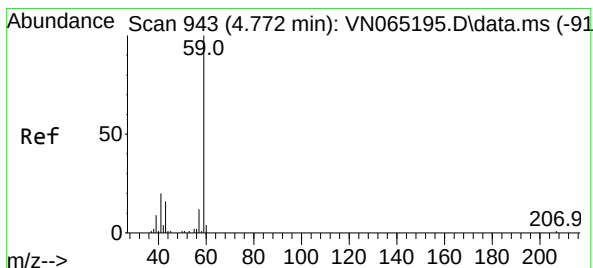
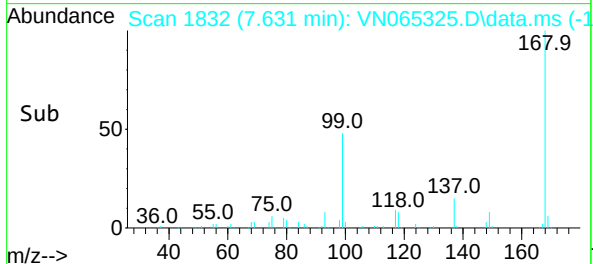
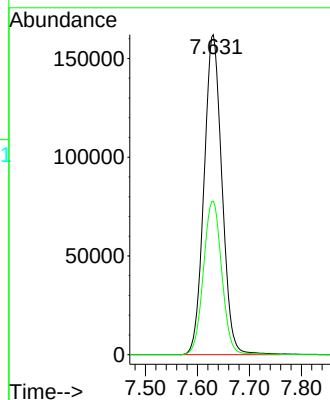
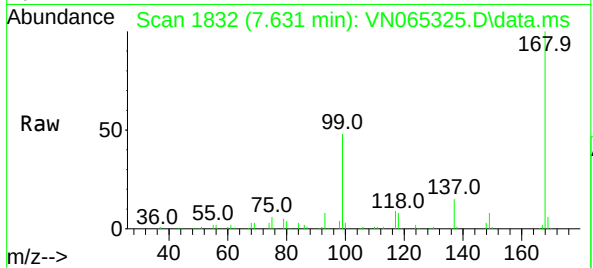




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.631 min Scan# 1832
Delta R.T. 0.004 min
Lab File: VN065325.D
Acq: 30 Dec 2020 17:11

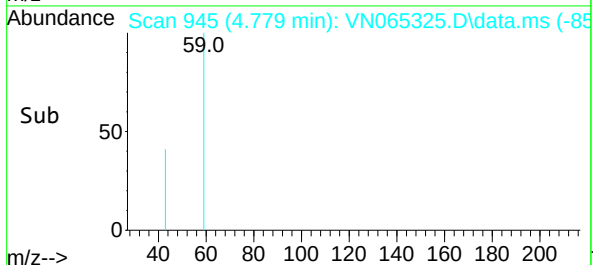
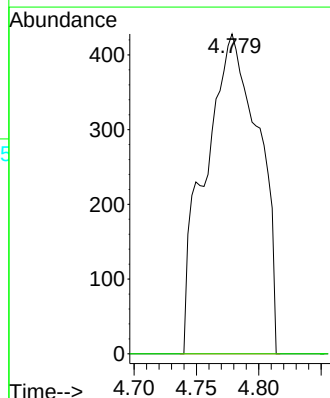
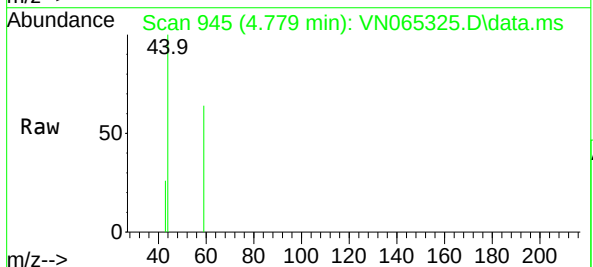
Instrument :
MSVOA_N
ClientSampleId :

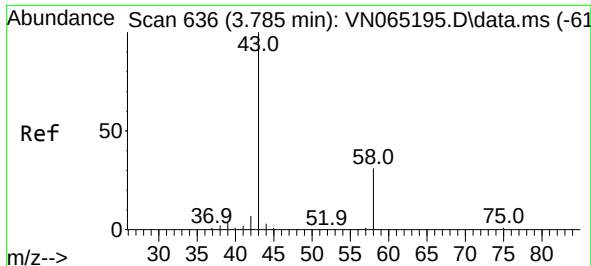
Tgt Ion:168 Resp: 388710
Ion Ratio Lower Upper
168 100
99 48.0 43.0 64.4



#11
Tert butyl alcohol
Concen: 1.77 ug/l
RT: 4.779 min Scan# 945
Delta R.T. 0.007 min
Lab File: VN065325.D
Acq: 30 Dec 2020 17:11

Tgt Ion: 59 Resp: 1274
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#

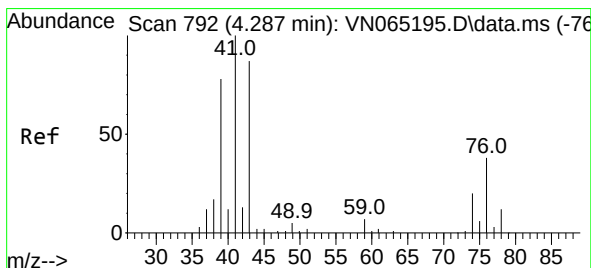
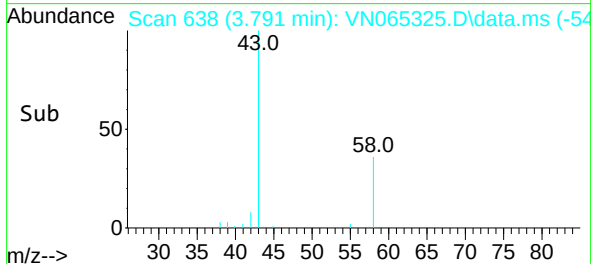
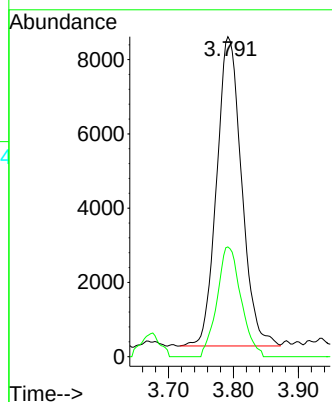
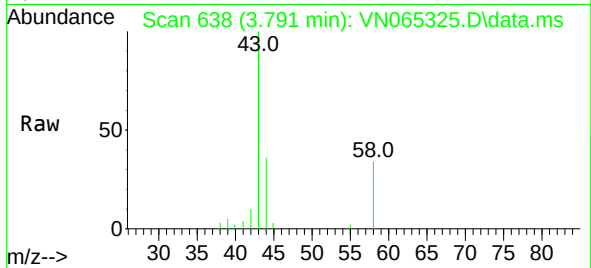




#16
Acetone
Concen: 1.34 ug/l
RT: 3.791 min Scan# 638
Delta R.T. 0.006 min
Lab File: VN065325.D
Acq: 30 Dec 2020 17:11

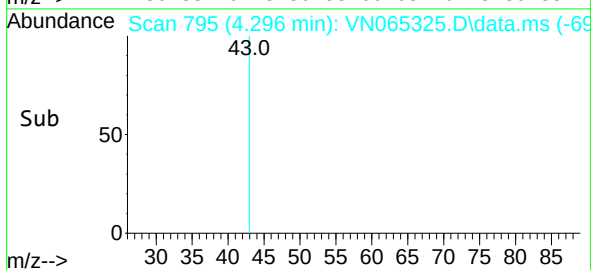
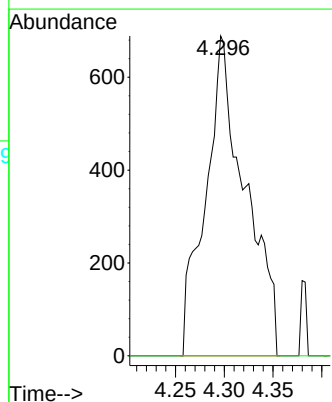
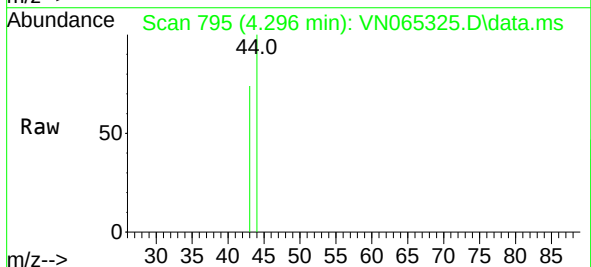
Instrument :
MSVOA_N
ClientSampled :

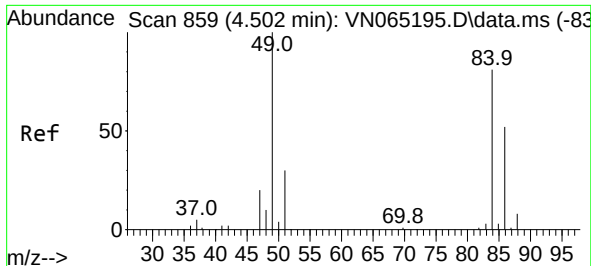
Tgt Ion: 43 Resp: 22170
Ion Ratio Lower Upper
43 100
58 35.5 25.7 38.5



#18
Methyl Acetate
Concen: 0.49 ug/l
RT: 4.296 min Scan# 795
Delta R.T. 0.009 min
Lab File: VN065325.D
Acq: 30 Dec 2020 17:11

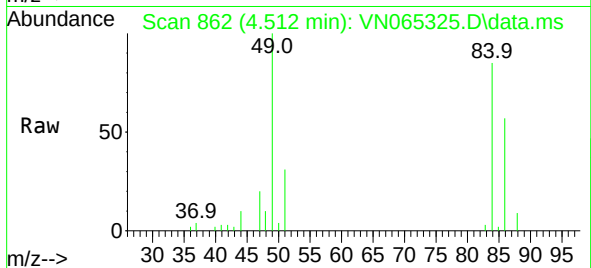
Tgt Ion: 43 Resp: 1950
Ion Ratio Lower Upper
43 100
74 0.0 20.2 30.2#





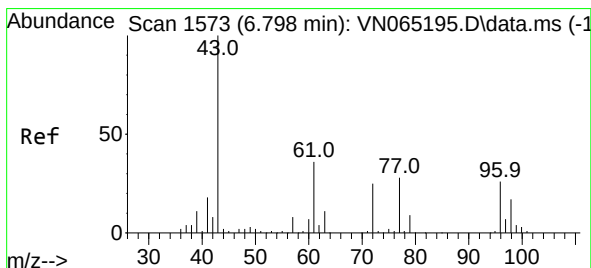
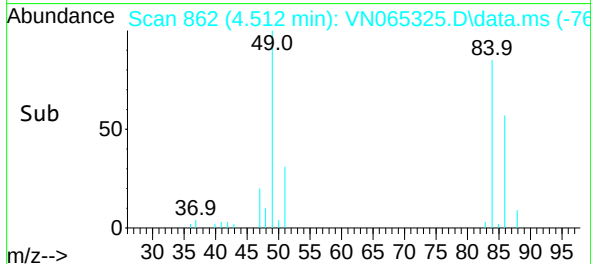
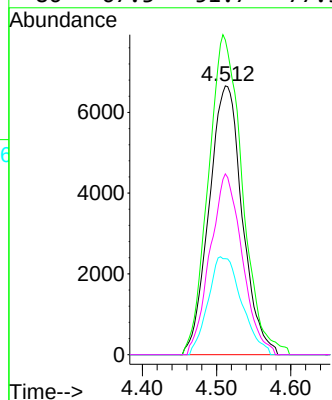
#20
Methylene Chloride
Concen: 4.83 ug/l
RT: 4.512 min Scan# 862
Delta R.T. 0.010 min
Lab File: VN065325.D
Acq: 30 Dec 2020 17:11

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 84 Resp: 20674

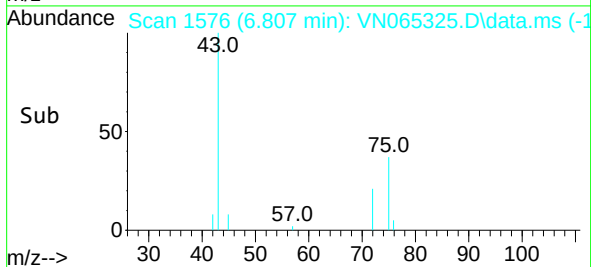
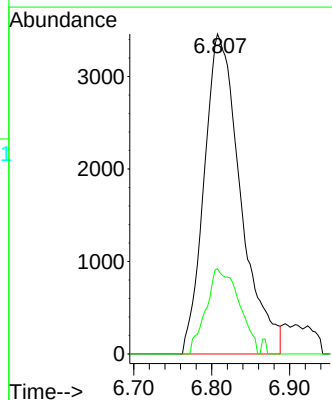
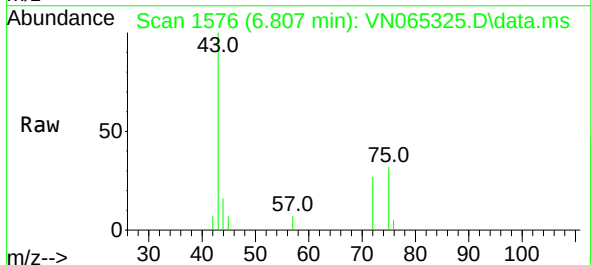
Ion	Ratio	Lower	Upper
84	100		
49	117.0	93.4	140.0
51	35.7	28.2	42.4
86	67.3	51.7	77.5

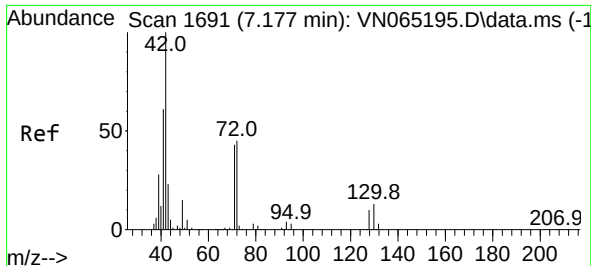


#25
2-Butanone
Concen: 4.55 ug/l
RT: 6.807 min Scan# 1576
Delta R.T. 0.009 min
Lab File: VN065325.D
Acq: 30 Dec 2020 17:11

Tgt Ion: 43 Resp: 11221

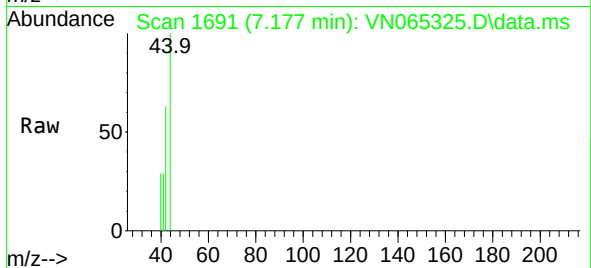
Ion	Ratio	Lower	Upper
43	100		
72	26.6	21.0	31.6



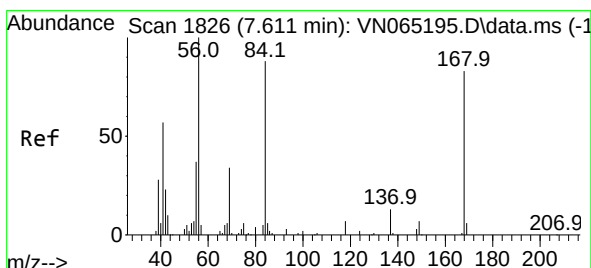
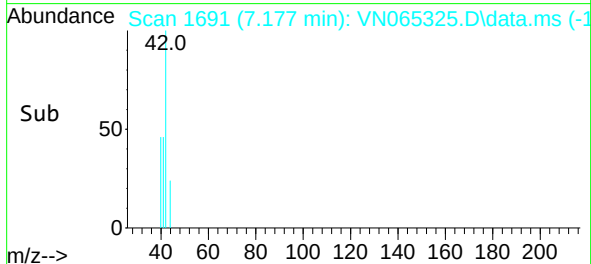
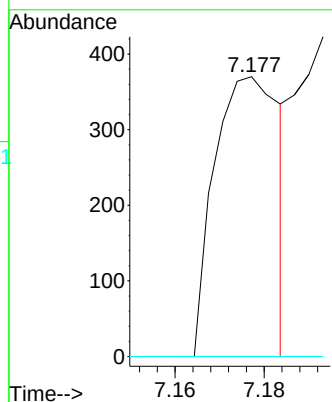


#29
Tetrahydrofuran
Concen: 0.24 ug/l
RT: 7.177 min Scan# 1691
Delta R.T. 0.000 min
Lab File: VN065325.D
Acq: 30 Dec 2020 17:11

Instrument :
MSVOA_N
ClientSampleId :

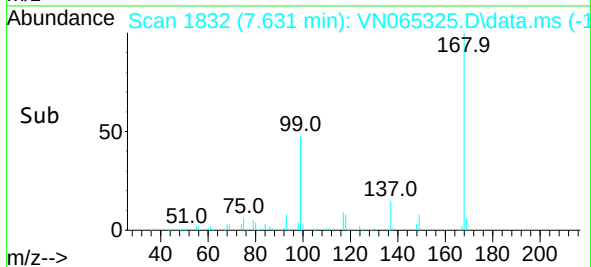
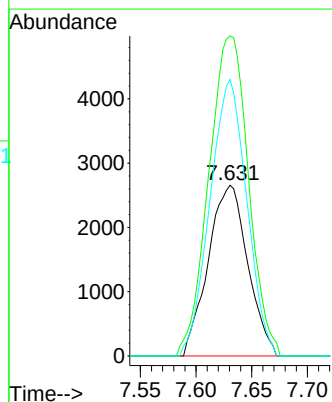
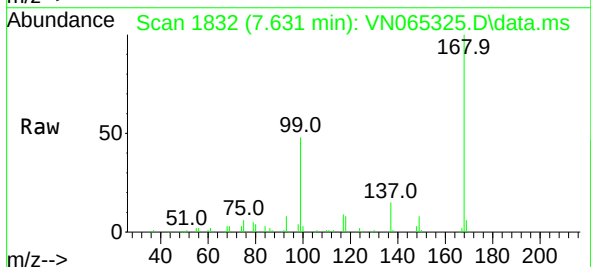


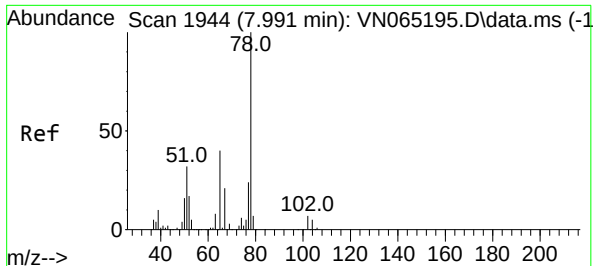
Tgt Ion:	42	Resp:	375
Ion	Ratio	Lower	Upper
42	100		
72	0.0	36.6	54.8#
71	0.0	33.6	50.4#



#31
Cyclohexane
Concen: 1.01 ug/l
RT: 7.631 min Scan# 1832
Delta R.T. 0.020 min
Lab File: VN065325.D
Acq: 30 Dec 2020 17:11

Tgt Ion:	56	Resp:	6555
Ion	Ratio	Lower	Upper
56	100		
69	187.5	27.5	41.3#
84	162.0	73.9	110.9#

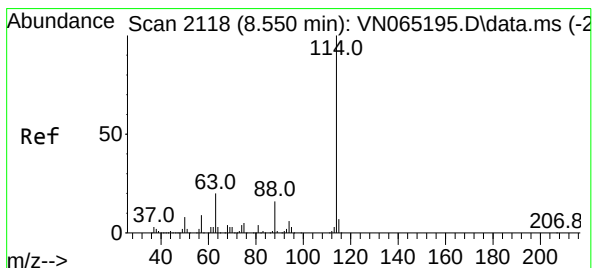
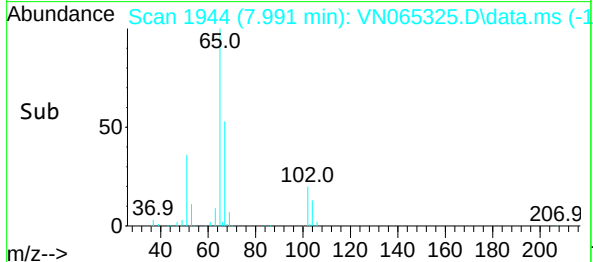
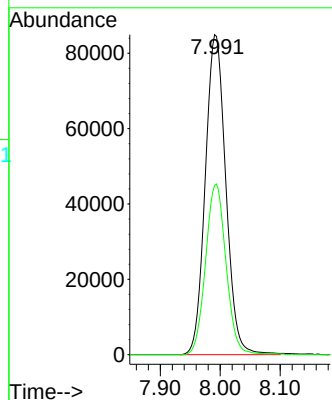
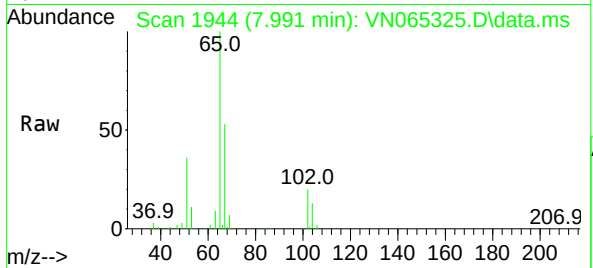




#33
1,2-Dichloroethane-d4
Concen: 46.18 ug/l
RT: 7.991 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VN065325.D
Acq: 30 Dec 2020 17:11

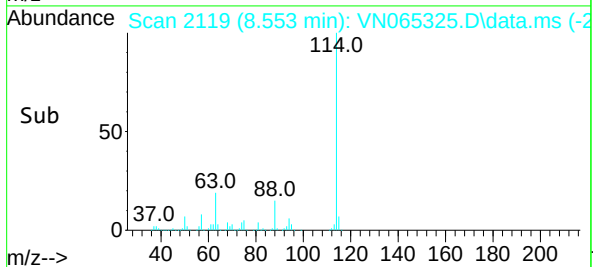
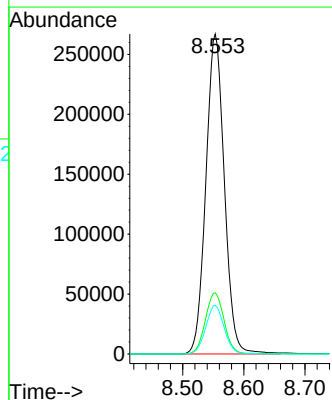
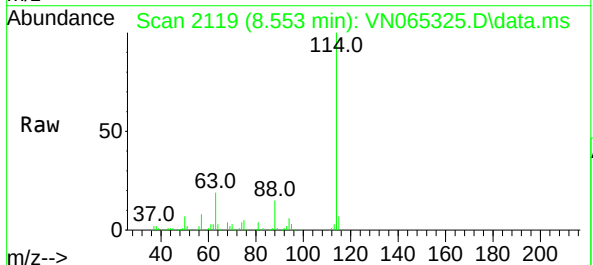
Instrument :
MSVOA_N
ClientSampled :

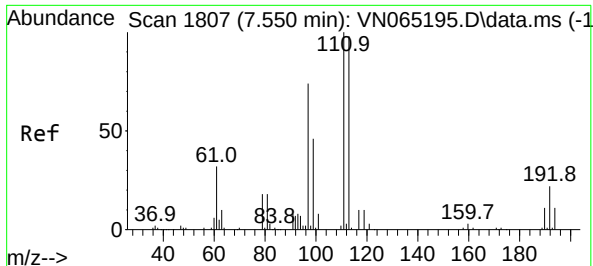
Tgt Ion: 65 Resp: 202667
Ion Ratio Lower Upper
65 100
67 53.0 0.0 108.2



#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.553 min Scan# 2119
Delta R.T. 0.003 min
Lab File: VN065325.D
Acq: 30 Dec 2020 17:11

Tgt Ion: 114 Resp: 560071
Ion Ratio Lower Upper
114 100
63 19.1 0.0 38.6
88 15.2 0.0 32.6

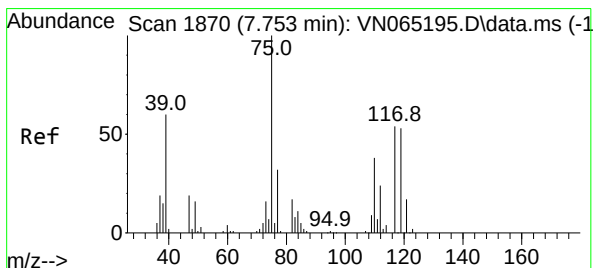
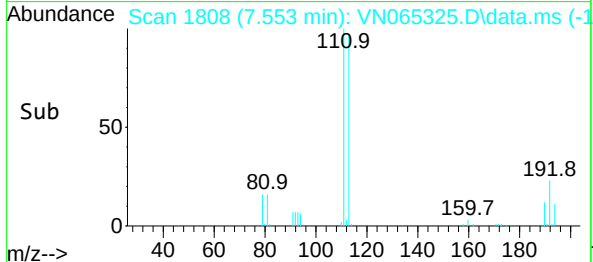
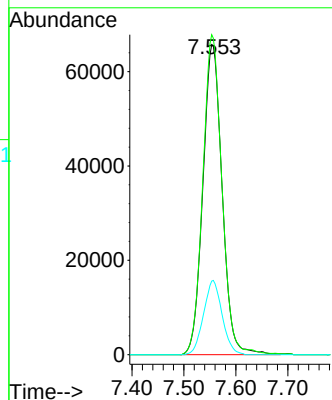
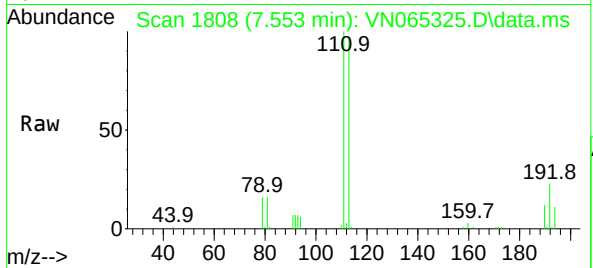




#35
Dibromofluoromethane
Concen: 50.15 ug/l
RT: 7.553 min Scan# 1808
Delta R.T. 0.003 min
Lab File: VN065325.D
Acq: 30 Dec 2020 17:11

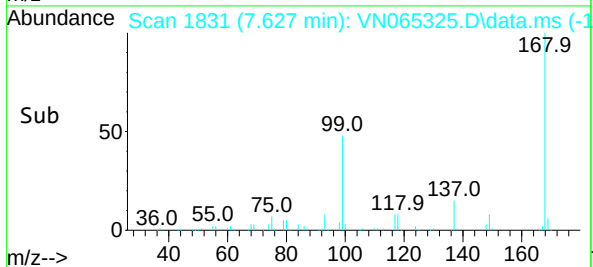
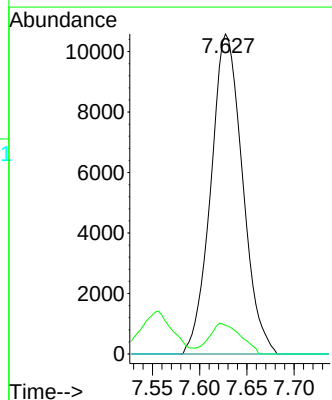
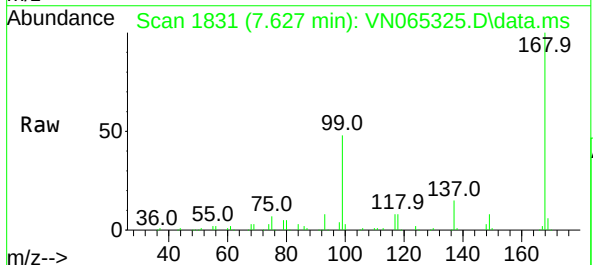
Instrument :
MSVOA_N
ClientSampleId :

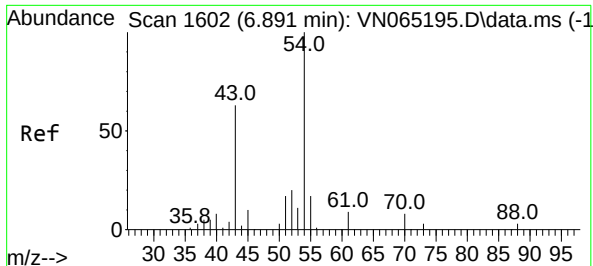
Tgt Ion:113 Resp: 169465
Ion Ratio Lower Upper
113 100
111 102.2 81.6 122.4
192 23.0 16.2 24.2



#36
1,1-Dichloropropene
Concen: 4.84 ug/l
RT: 7.627 min Scan# 1831
Delta R.T. -0.126 min
Lab File: VN065325.D
Acq: 30 Dec 2020 17:11

Tgt Ion: 75 Resp: 24668
Ion Ratio Lower Upper
75 100
110 9.5 17.8 53.3#
77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 2.22 ug/l

RT: 6.807 min Scan# 1576

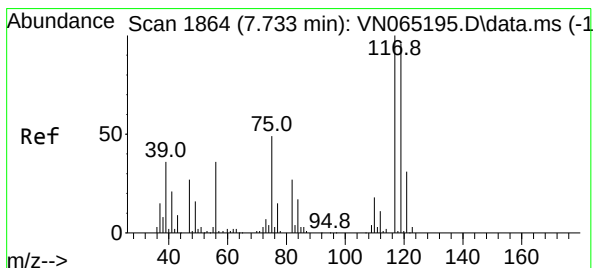
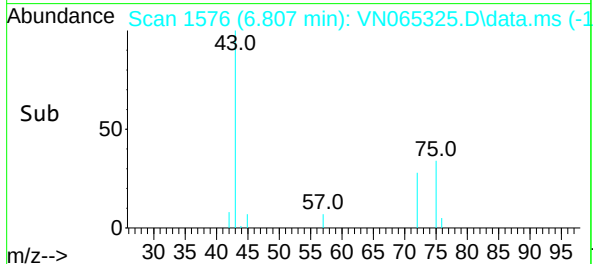
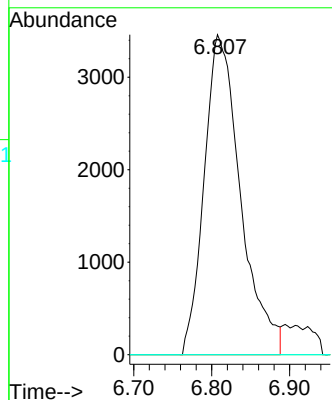
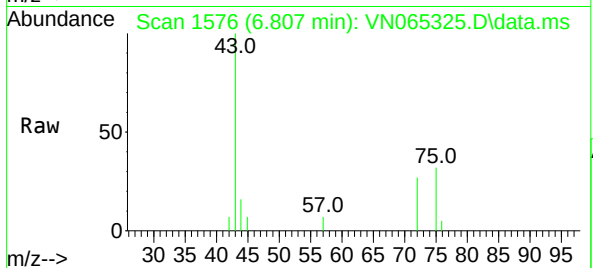
Delta R.T. -0.084 min

Lab File: VN065325.D

Acq: 30 Dec 2020 17:11

Instrument :
MSVOA_N
ClientSampled :

Tgt Ion: 43	Resp: 11221
Ion Ratio	Lower Upper
43 100	
61 0.0	12.8 19.2#
70 0.0	8.8 13.2#



#38

Carbon Tetrachloride

Concen: 6.16 ug/l

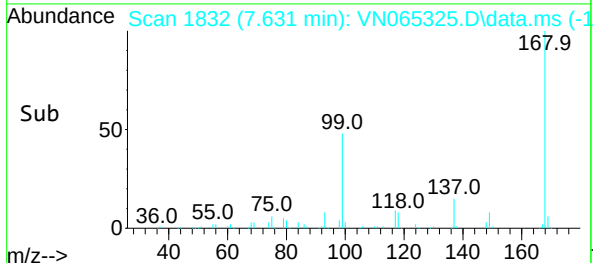
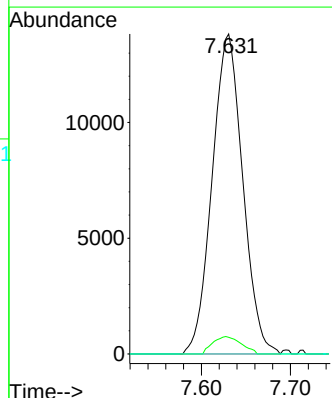
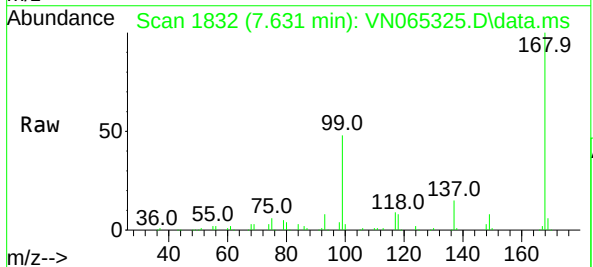
RT: 7.631 min Scan# 1832

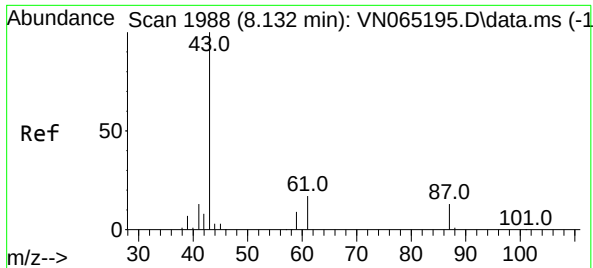
Delta R.T. -0.102 min

Lab File: VN065325.D

Acq: 30 Dec 2020 17:11

Tgt Ion:117	Resp:	32969	
Ion	Ratio	Lower	Upper
117	100		
119	5.2	76.7	115.1#
121	0.0	25.4	38.2#

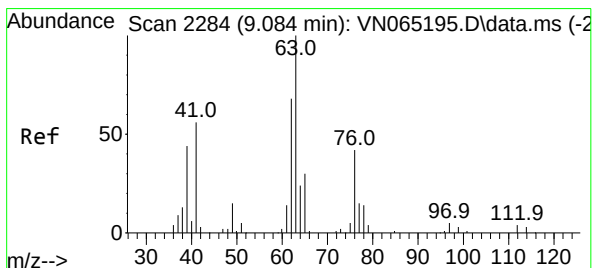
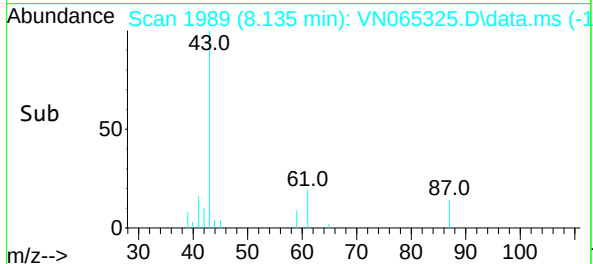
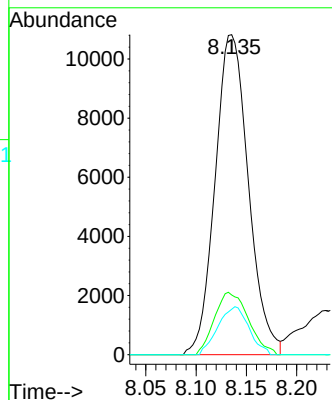
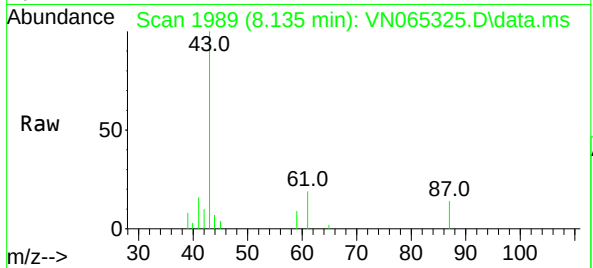




#43
Isopropyl Acetate
Concen: 2.87 ug/l
RT: 8.135 min Scan# 1989
Delta R.T. 0.003 min
Lab File: VN065325.D
Acq: 30 Dec 2020 17:11

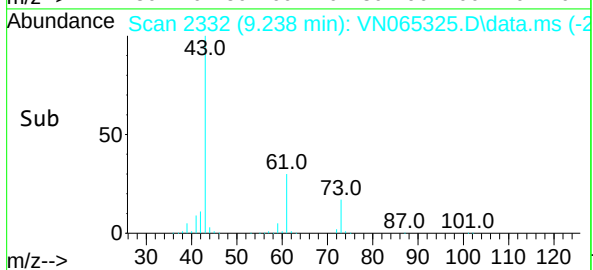
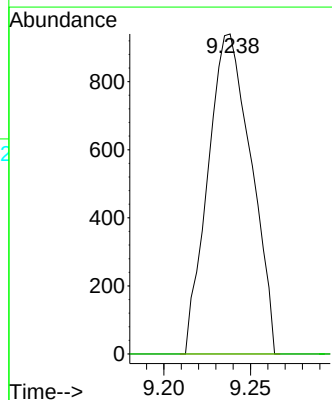
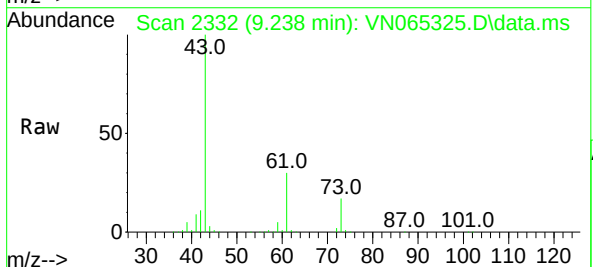
Instrument :
MSVOA_N
ClientSampled :

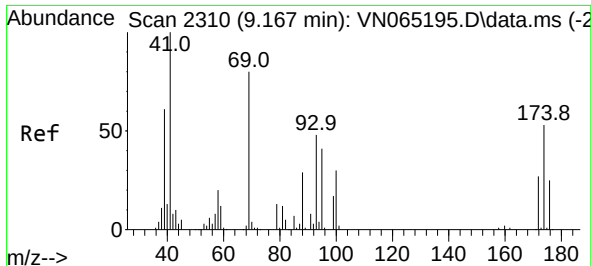
Tgt Ion:	43	Resp:	24956
Ion	Ratio	Lower	Upper
43	100		
61	19.9	17.2	25.8
87	13.9	11.4	17.0



#45
1,2-Dichloropropane
Concen: 0.41 ug/l
RT: 9.238 min Scan# 2332
Delta R.T. 0.154 min
Lab File: VN065325.D
Acq: 30 Dec 2020 17:11

Tgt Ion:	63	Resp:	1632
Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.0	37.4#

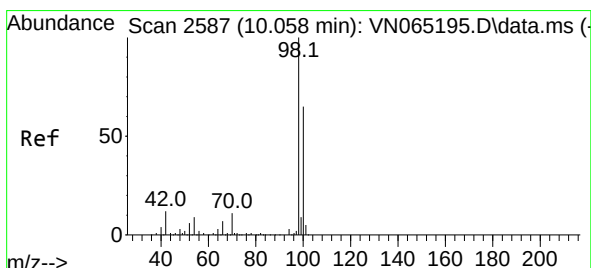
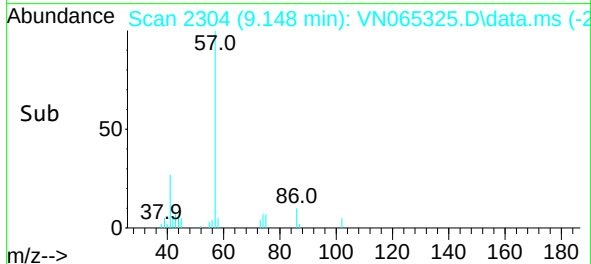
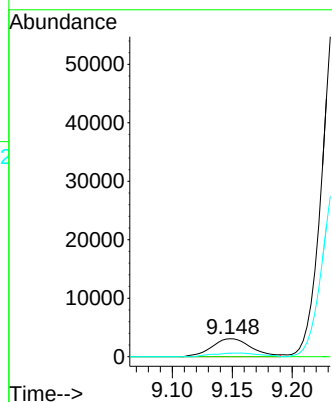
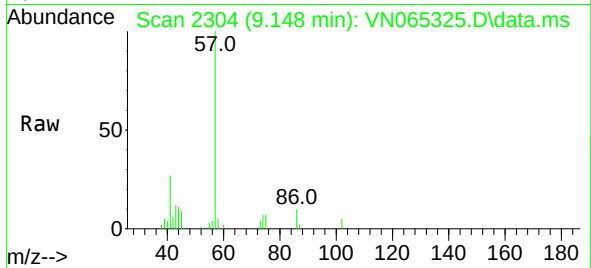




#48
Methyl methacrylate
Concen: 1.66 ug/l
RT: 9.148 min Scan# 2304
Delta R.T. -0.019 min
Lab File: VN065325.D
Acq: 30 Dec 2020 17:11

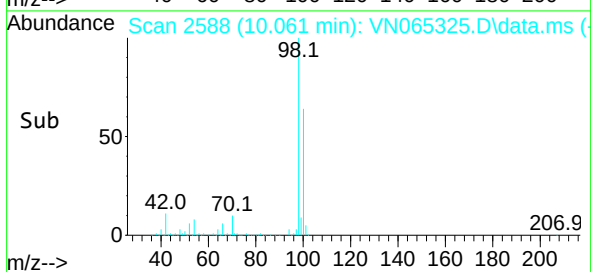
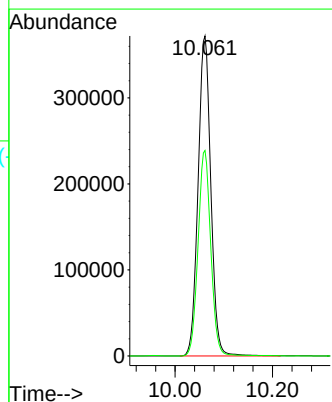
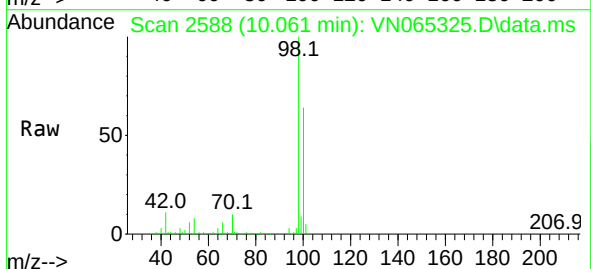
Instrument :
MSVOA_N
ClientSampled :

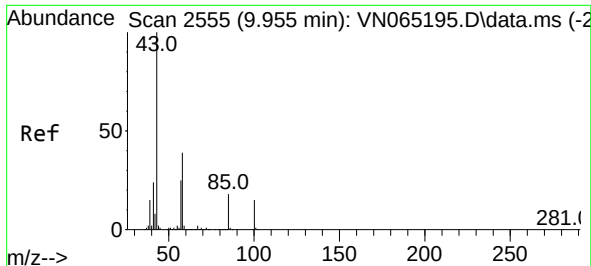
Tgt Ion: 41 Resp: 7000
Ion Ratio Lower Upper
41 100
69 0.0 71.8 107.8#
39 0.0 44.1 66.1#



#50
Toluene-d8
Concen: 53.37 ug/l
RT: 10.061 min Scan# 2588
Delta R.T. 0.003 min
Lab File: VN065325.D
Acq: 30 Dec 2020 17:11

Tgt Ion: 98 Resp: 675859
Ion Ratio Lower Upper
98 100
100 64.1 51.7 77.5

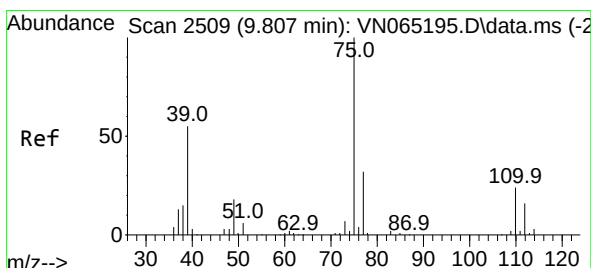
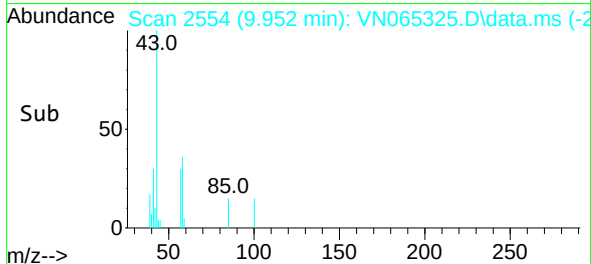
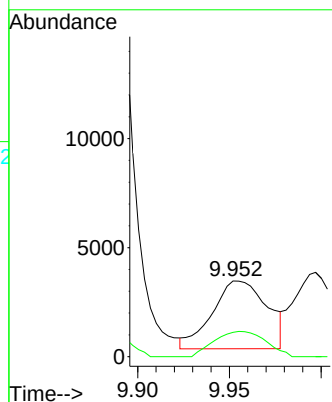
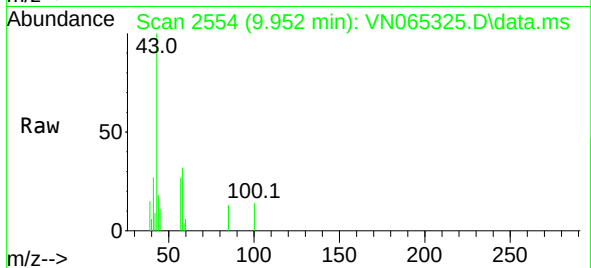




#51
4-Methyl-2-Pentanone
Concen: 1.32 ug/l
RT: 9.952 min Scan# 2554
Delta R.T. -0.003 min
Lab File: VN065325.D
Acq: 30 Dec 2020 17:11

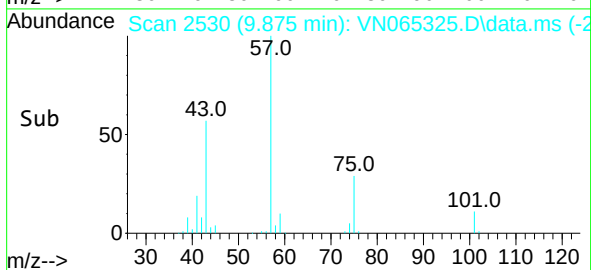
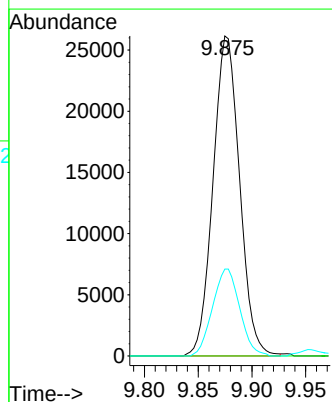
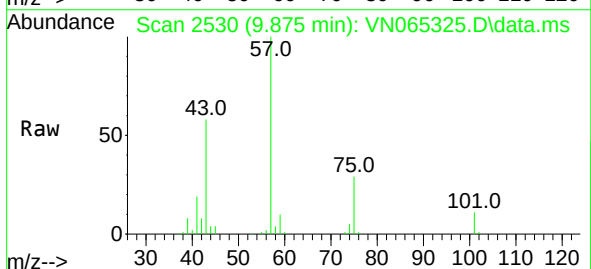
Instrument :
MSVOA_N
ClientSampled :

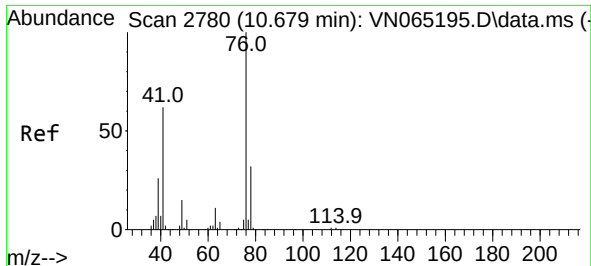
Tgt Ion: 43 Resp: 6463
Ion Ratio Lower Upper
43 100
58 35.1 32.4 48.6



#54
cis-1,3-Dichloropropene
Concen: 6.64 ug/l
RT: 9.875 min Scan# 2530
Delta R.T. 0.068 min
Lab File: VN065325.D
Acq: 30 Dec 2020 17:11

Tgt Ion: 75 Resp: 44843
Ion Ratio Lower Upper
75 100
77 0.0 25.5 38.3#
39 27.1 35.6 53.4#

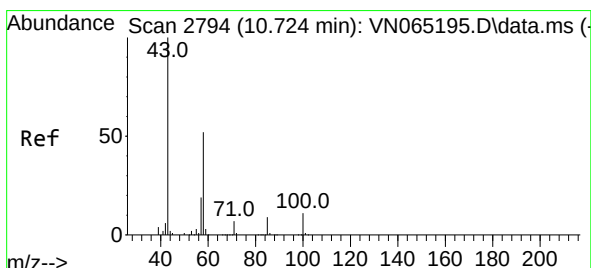
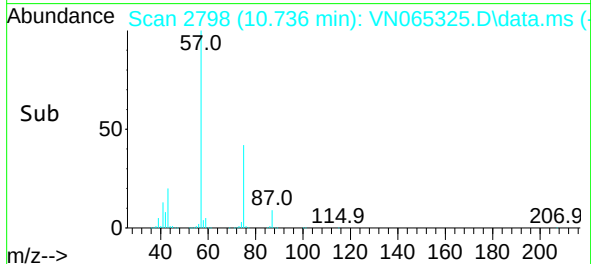
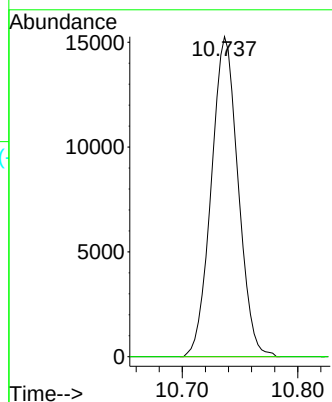
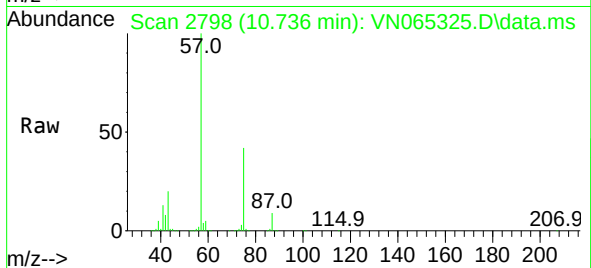




#57
1,3-Dichloropropane
Concen: 3.96 ug/l
RT: 10.736 min Scan# 2798
Delta R.T. 0.057 min
Lab File: VN065325.D
Acq: 30 Dec 2020 17:11

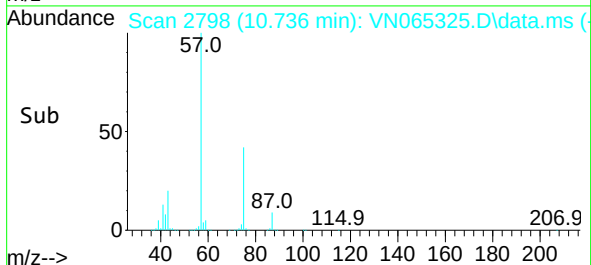
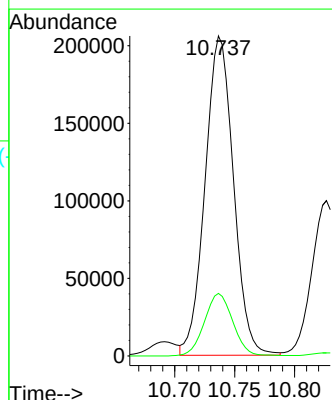
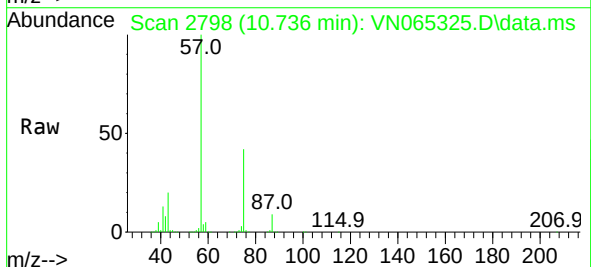
Instrument :
MSVOA_N
ClientSampled :

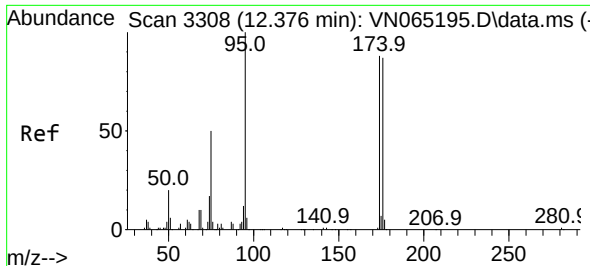
Tgt Ion: 76 Resp: 24657
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#



#59
2-Hexanone
Concen: 94.25 ug/l
RT: 10.736 min Scan# 2798
Delta R.T. 0.012 min
Lab File: VN065325.D
Acq: 30 Dec 2020 17:11

Tgt Ion: 43 Resp: 338917
Ion Ratio Lower Upper
43 100
58 19.7 28.3 84.9#

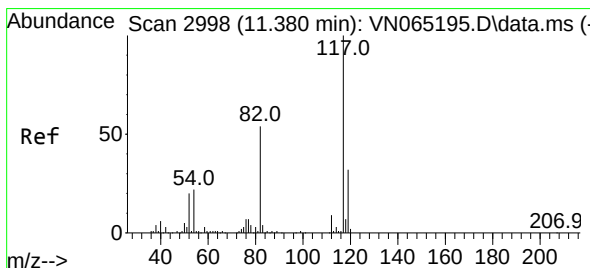
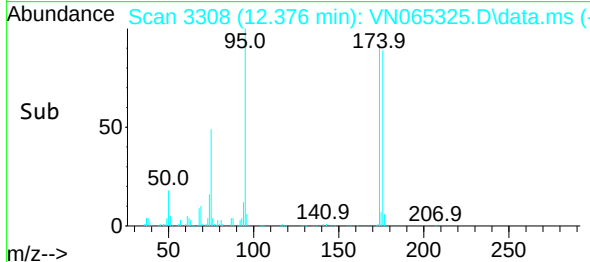
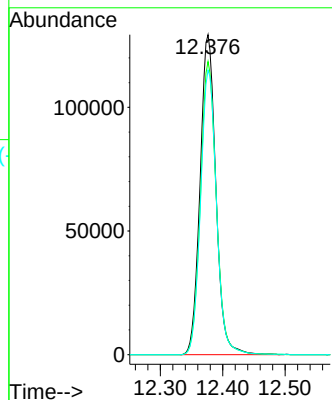
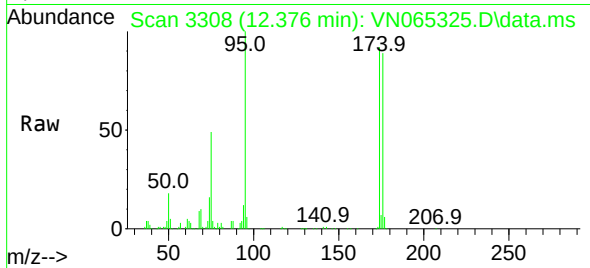




#62
4-Bromofluorobenzene
Concen: 46.00 ug/l
RT: 12.376 min Scan# 3308
Delta R.T. 0.000 min
Lab File: VN065325.D
Acq: 30 Dec 2020 17:11

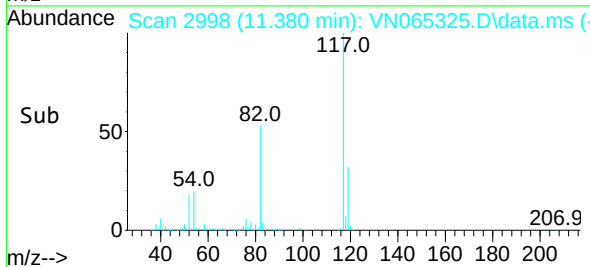
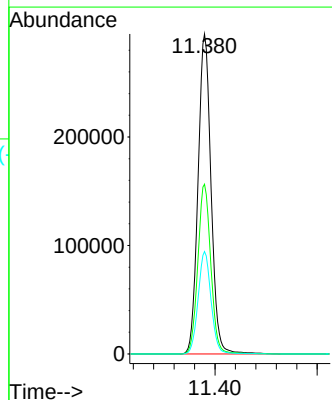
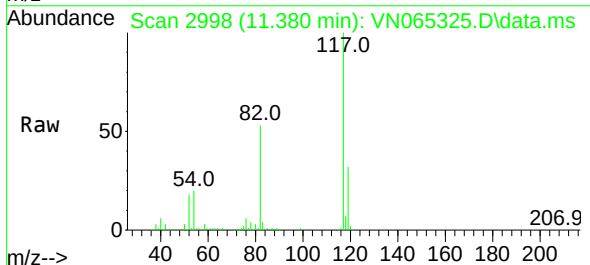
Instrument :
MSVOA_N
ClientSampleId :

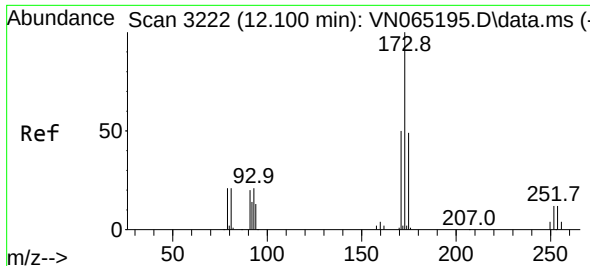
Tgt Ion: 95 Resp: 228135
Ion Ratio Lower Upper
95 100
174 91.8 0.0 160.4
176 89.5 0.0 158.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.380 min Scan# 2998
Delta R.T. -0.000 min
Lab File: VN065325.D
Acq: 30 Dec 2020 17:11

Tgt Ion: 117 Resp: 521185
Ion Ratio Lower Upper
117 100
82 53.0 44.2 66.2
119 32.0 25.8 38.6

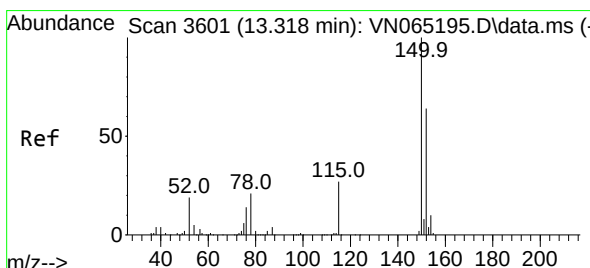
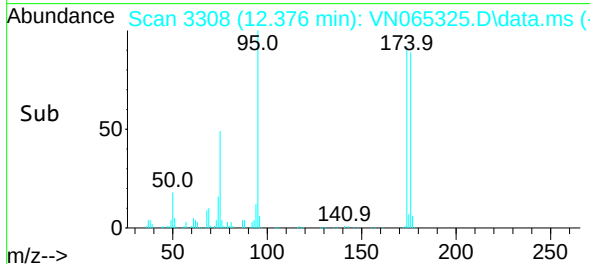
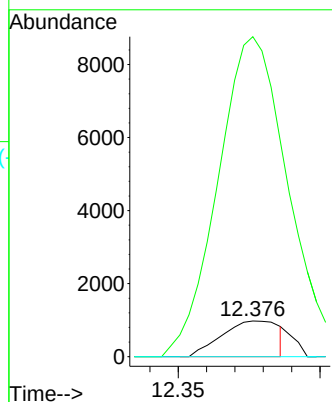
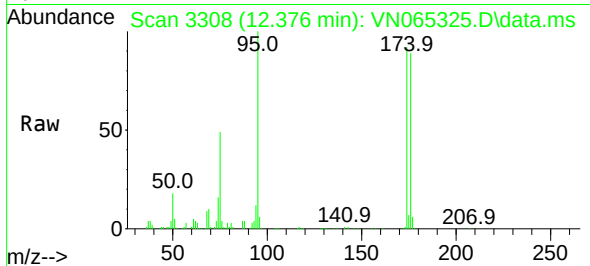




#71
Bromoform
Concen: 0.39 ug/l
RT: 12.376 min Scan# 3308
Delta R.T. 0.276 min
Lab File: VN065325.D
Acq: 30 Dec 2020 17:11

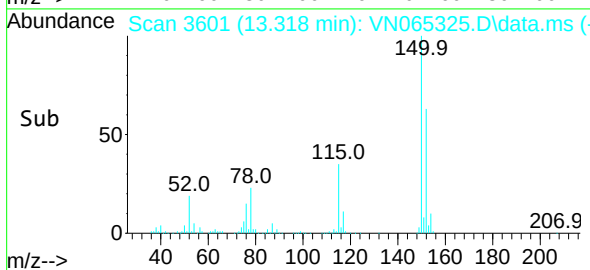
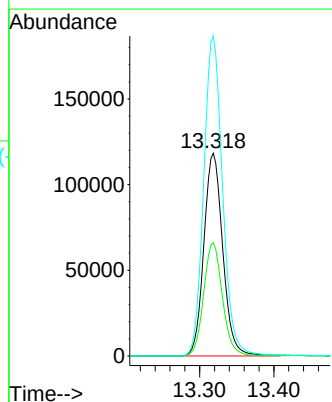
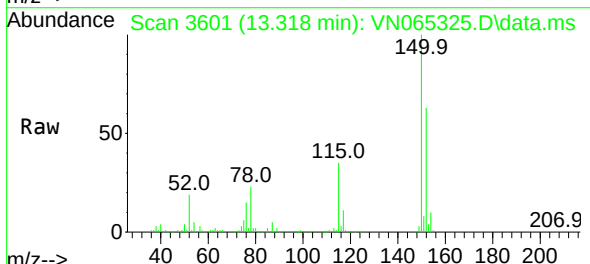
Instrument :
MSVOA_N
ClientSampleId :

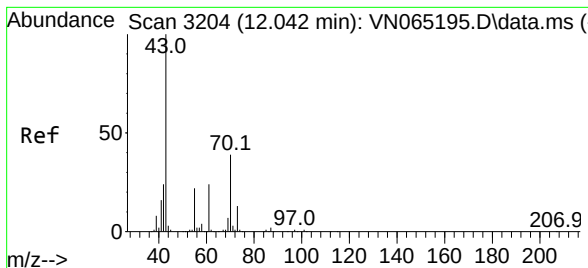
Tgt Ion:173 Resp: 1370
Ion Ratio Lower Upper
173 100
175 906.6 24.3 72.8#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.318 min Scan# 3601
Delta R.T. 0.000 min
Lab File: VN065325.D
Acq: 30 Dec 2020 17:11

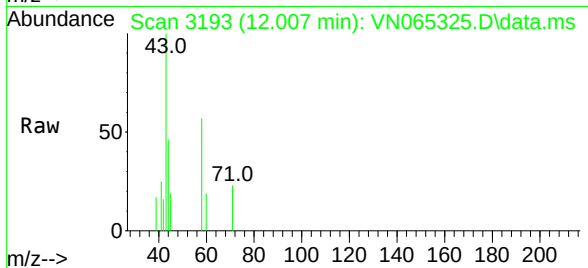
Tgt Ion:152 Resp: 209435
Ion Ratio Lower Upper
152 100
115 55.6 29.7 89.1
150 157.6 0.0 350.6





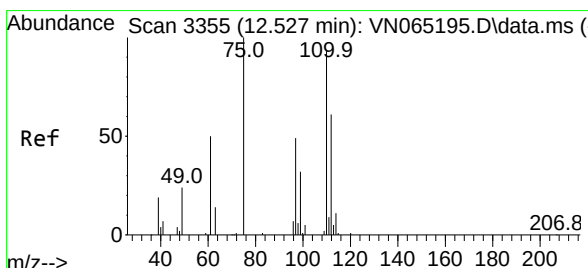
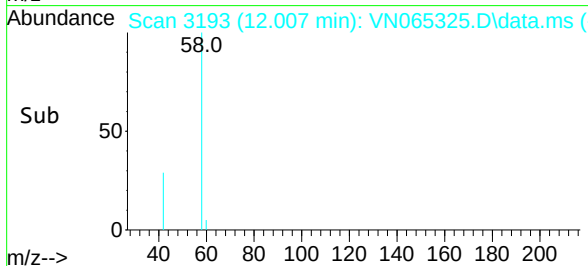
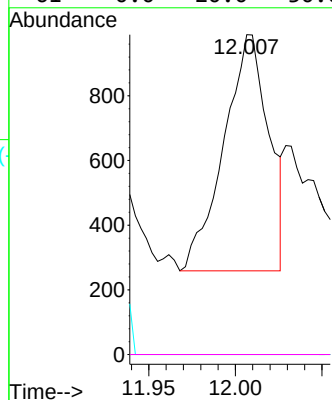
#74
N-amy1 acetate
Concen: 0.21 ug/l
RT: 12.007 min Scan# 3193
Delta R.T. -0.035 min
Lab File: VN065325.D
Acq: 30 Dec 2020 17:11

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 43 Resp: 1322

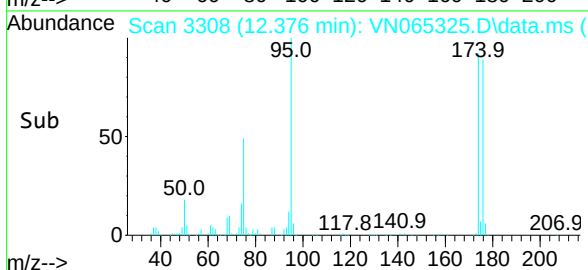
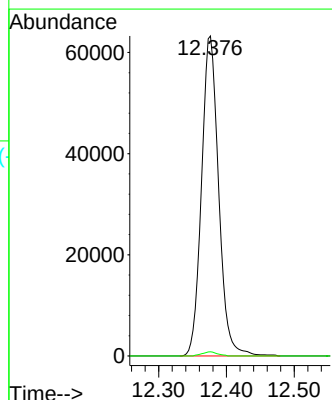
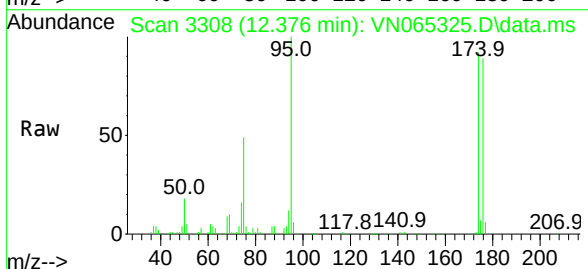
Ion	Ratio	Lower	Upper
43	100		
70	0.0	34.5	51.7#
55	0.0	20.4	30.6#
61	0.0	20.0	30.0#

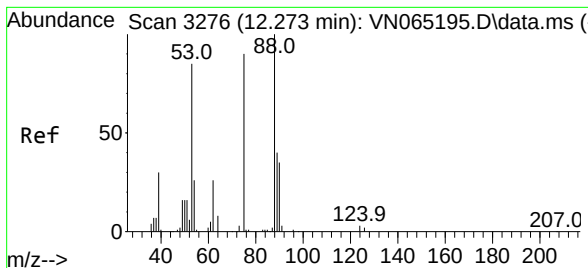


#76
1,2,3-Trichloropropane
Concen: 25.99 ug/l
RT: 12.376 min Scan# 3308
Delta R.T. -0.151 min
Lab File: VN065325.D
Acq: 30 Dec 2020 17:11

Tgt Ion: 75 Resp: 111046

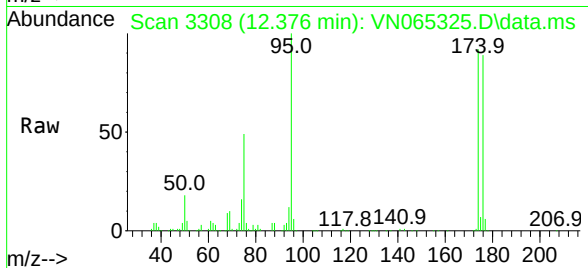
Ion	Ratio	Lower	Upper
75	100		
77	1.2	0.0	0.0#



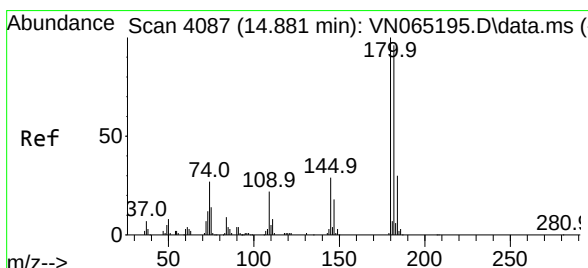
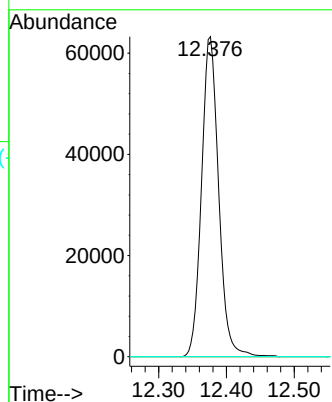
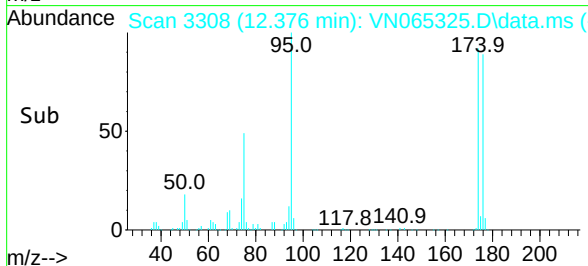


#81
trans-1,4-Dichloro-2-butene
Concen: 65.53 ug/l
RT: 12.376 min Scan# 3308
Delta R.T. 0.103 min
Lab File: VN065325.D
Acq: 30 Dec 2020 17:11

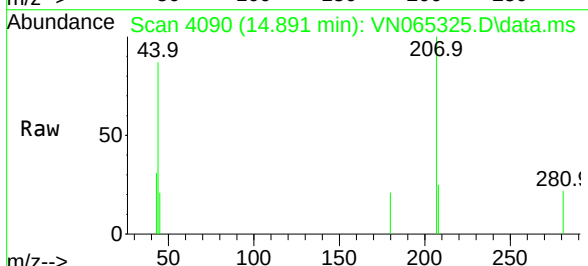
Instrument :
MSVOA_N
ClientSampled :



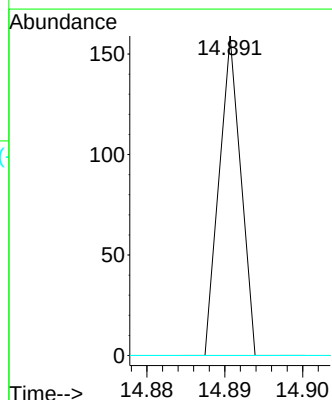
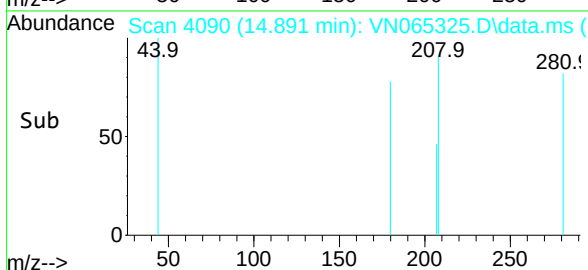
Tgt Ion: 75 Resp: 111046
Ion Ratio Lower Upper
75 100
53 0.0 67.0 100.4#
89 0.0 39.6 59.4#

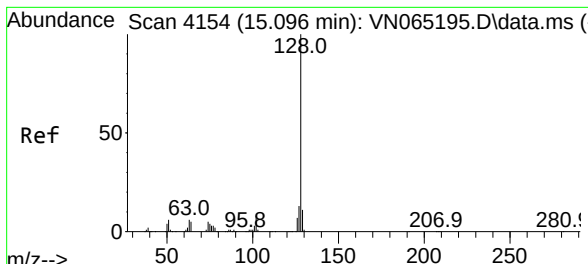


#93
1,2,4-Trichlorobenzene
Concen: 2.84 ug/l
RT: 14.891 min Scan# 4090
Delta R.T. 0.010 min
Lab File: VN065325.D
Acq: 30 Dec 2020 17:11



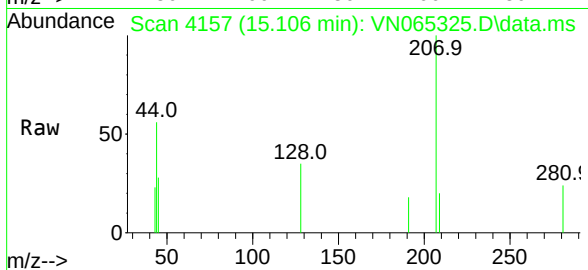
Tgt Ion: 180 Resp: 31
Ion Ratio Lower Upper
180 100
182 0.0 47.6 142.9#
145 0.0 15.3 45.8#





#95
 Naphthalene
 Concen: 3.42 ug/l
 RT: 15.106 min Scan# 4157
 Delta R.T. 0.010 min
 Lab File: VN065325.D
 Acq: 30 Dec 2020 17:11

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	128	Resp:	510
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	0.0	8.7	13.1#

