

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031621\
 Data File : VN066220.D
 Acq On : 16 Mar 2021 19:02
 Operator : JC/MD
 Sample : PB135191TB
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 17 05:24:25 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031621W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 17 05:05:15 2021
 Response via : Initial Calibration

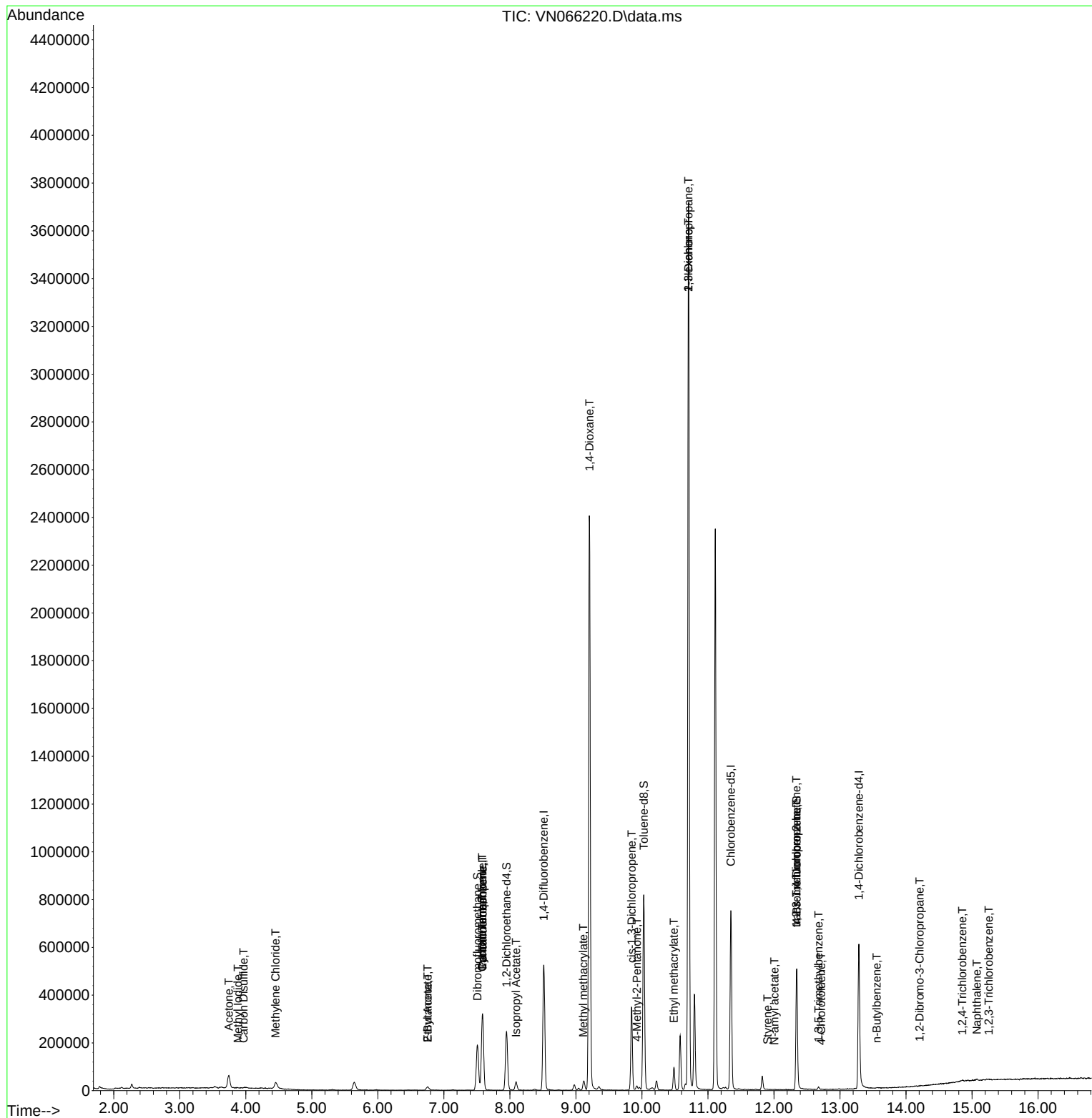
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.587	168	263759	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.515	114	442934	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.347	117	417948	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.286	152	176118	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.949	65	211763	55.73	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	111.46%
35) Dibromofluoromethane	7.509	113	143786	50.88	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	101.76%
50) Toluene-d8	10.028	98	543467	49.74	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	99.48%
62) 4-Bromofluorobenzene	12.345	95	178048	45.21	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	90.42%
Target Compounds						
					Qvalue	
10) Methyl Iodide	3.881	142	675	0.21	ug/l #	48
13) Acrolein	3.535	56	4968	Below	Cal	99
16) Acetone	3.744	43	90109	49.36	ug/l	97
17) Carbon Disulfide	3.966	76	1740	0.25	ug/l #	75
20) Methylene Chloride	4.452	84	15409	5.40	ug/l	95
25) 2-Butanone	6.756	43	14805	5.22	ug/l	97
31) Cyclohexane	7.582	56	6092	1.07	ug/l #	23
36) 1,1-Dichloropropene	7.584	75	20863	4.65	ug/l #	46
37) Ethyl Acetate	6.756	43	14805	2.31	ug/l #	74
38) Carbon Tetrachloride	7.582	117	24952	6.21	ug/l #	17
43) Isopropyl Acetate	8.094	43	42473	4.28	ug/l	99
48) Methyl methacrylate	9.113	41	10220	2.17	ug/l #	21
49) 1,4-Dioxane	9.204	88	215	4.22	ug/l #	1
51) 4-Methyl-2-Pentanone	9.926	43	13385	2.23	ug/l	97
54) cis-1,3-Dichloropropene	9.845	75	55205	9.49	ug/l #	56
56) Ethyl methacrylate	10.484	69	857	2.30	ug/l #	1
57) 1,3-Dichloropropane	10.706	76	33468	5.80	ug/l #	43
59) 2-Hexanone	10.706	43	587715	126.13	ug/l #	55
70) Styrene	11.902	104	226	2.17	ug/l #	68
74) N-amyl acetate	12.007	43	608	2.24	ug/l #	49
76) 1,2,3-Trichloropropane	12.342	75	90807	19.97	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.678	105	5201	0.51	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.342	75	90807	59.75	ug/l #	11
82) 4-Chlorotoluene	12.718	91	845	0.56	ug/l	97
89) n-Butylbenzene	13.557	91	1313	2.36	ug/l #	65
92) 1,2-Dibromo-3-Chloropr...	14.206	75	327	1.17	ug/l #	8
93) 1,2,4-Trichlorobenzene	14.855	180	1162	0.33	ug/l	85
95) Naphthalene	15.075	128	4216	0.41	ug/l #	85
96) 1,2,3-Trichlorobenzene	15.255	180	1068	0.30	ug/l #	78

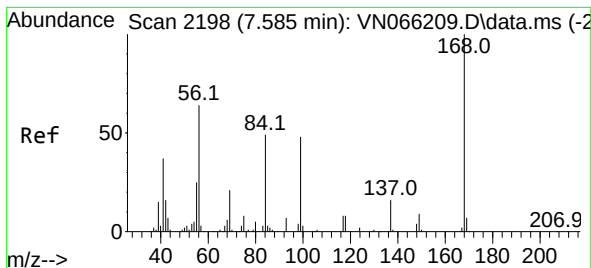
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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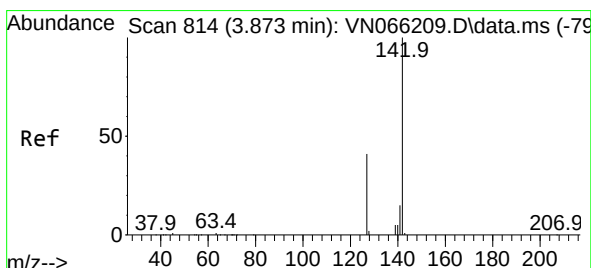
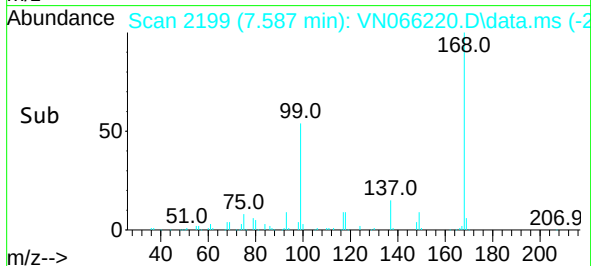
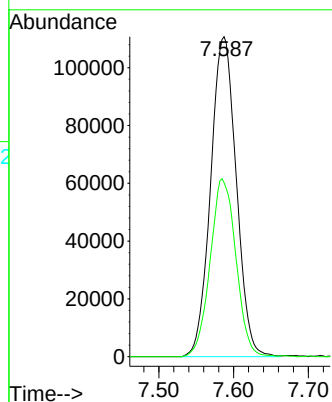
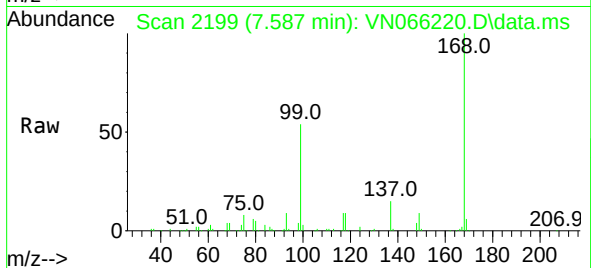




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.587 min Scan# 2199
Delta R.T. 0.002 min
Lab File: VN066220.D
Acq: 16 Mar 2021 19:02

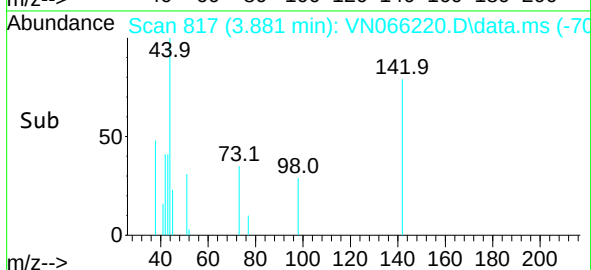
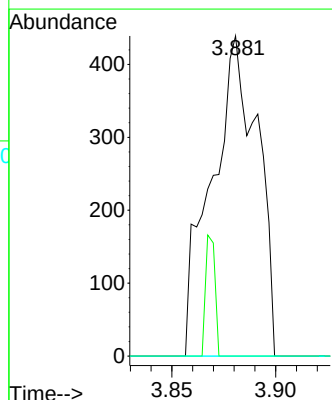
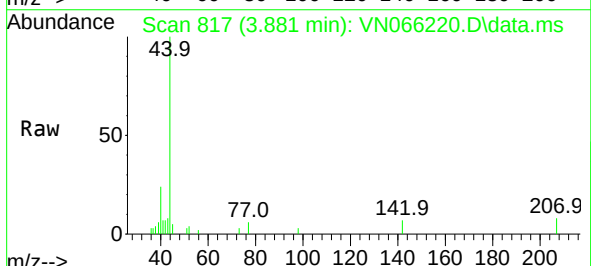
Instrument :
MSVOA_N
ClientSampled :

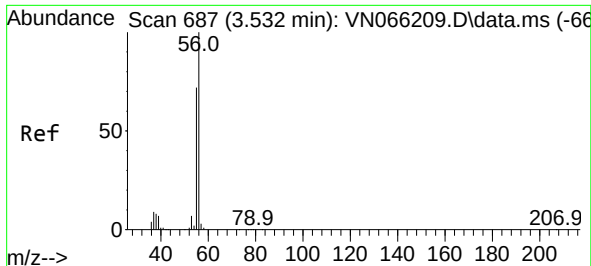
Tgt Ion:168 Resp: 263759
Ion Ratio Lower Upper
168 100
99 54.4 45.4 68.0



#10
Methyl Iodide
Concen: 0.21 ug/l
RT: 3.881 min Scan# 817
Delta R.T. 0.008 min
Lab File: VN066220.D
Acq: 16 Mar 2021 19:02

Tgt Ion:142 Resp: 675
Ion Ratio Lower Upper
142 100
127 7.7 35.9 53.9#
141 0.0 11.8 17.8#

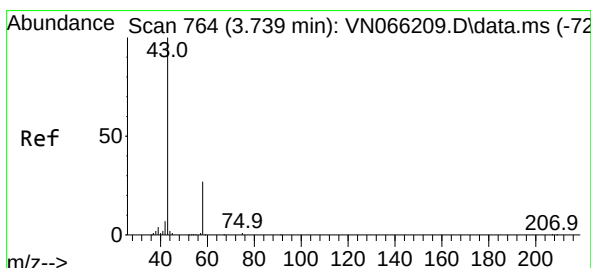
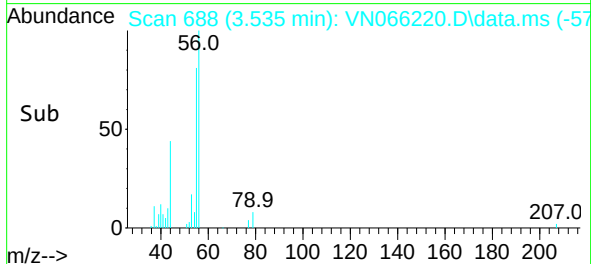
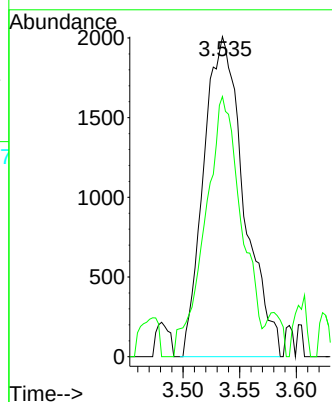
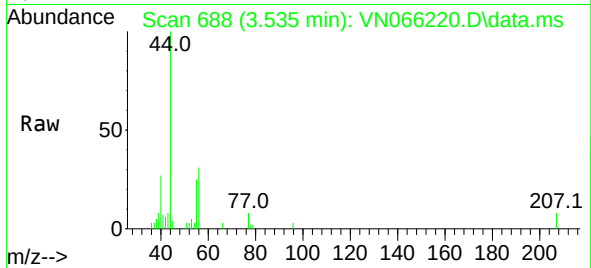




#13
Acrolein
Concen: Below Cal
RT: 3.535 min Scan# 688
Delta R.T. 0.003 min
Lab File: VN066220.D
Acq: 16 Mar 2021 19:02

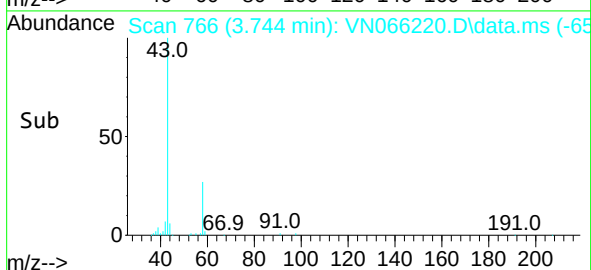
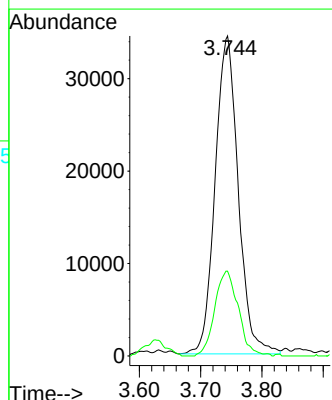
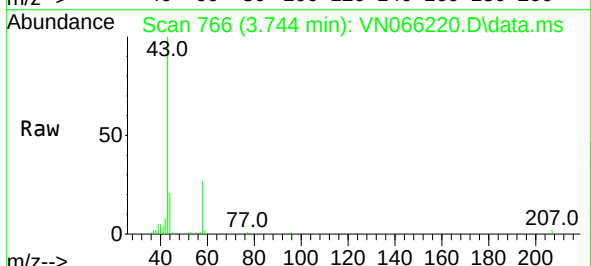
Instrument :
MSVOA_N
ClientSampled :

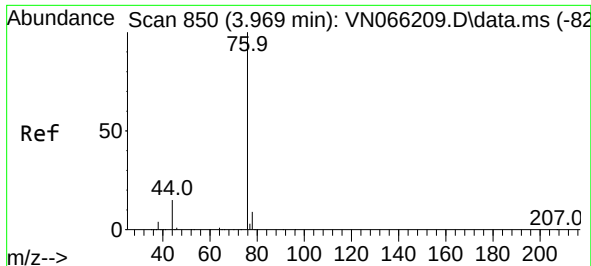
Tgt Ion: 56 Resp: 4968
Ion Ratio Lower Upper
56 100
55 73.2 58.0 87.0



#16
Acetone
Concen: 49.36 ug/l
RT: 3.744 min Scan# 766
Delta R.T. 0.005 min
Lab File: VN066220.D
Acq: 16 Mar 2021 19:02

Tgt Ion: 43 Resp: 90109
Ion Ratio Lower Upper
43 100
58 26.2 22.3 33.5

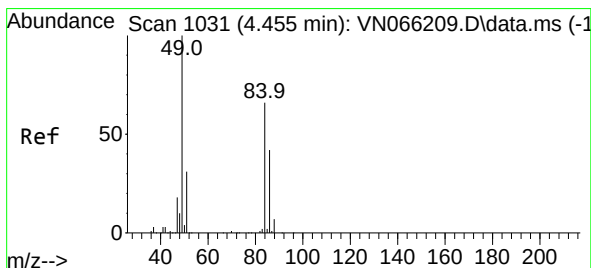
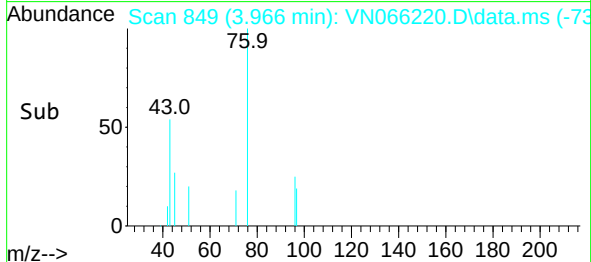
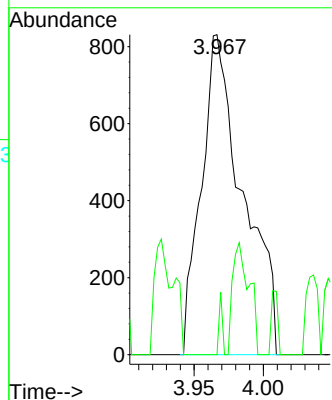
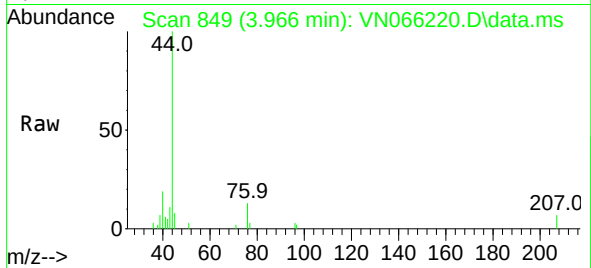




#17
Carbon Disulfide
Concen: 0.25 ug/l
RT: 3.966 min Scan# 849
Delta R.T. -0.002 min
Lab File: VN066220.D
Acq: 16 Mar 2021 19:02

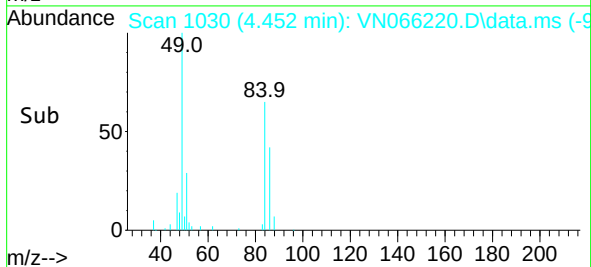
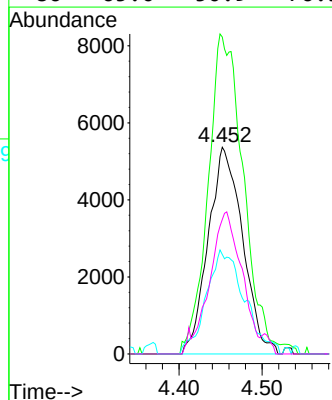
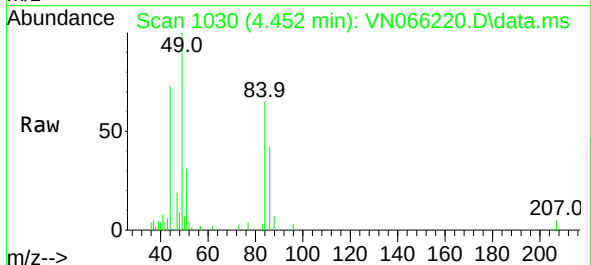
Instrument :
MSVOA_N
ClientSampled :

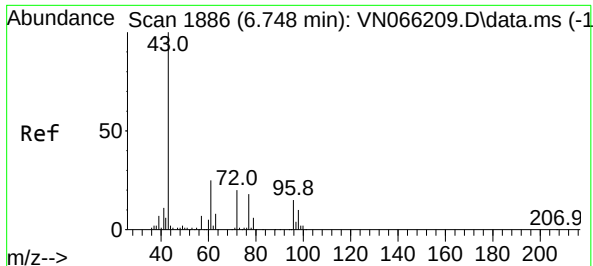
Tgt Ion: 76 Resp: 1740
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#



#20
Methylene Chloride
Concen: 5.40 ug/l
RT: 4.452 min Scan# 1030
Delta R.T. -0.003 min
Lab File: VN066220.D
Acq: 16 Mar 2021 19:02

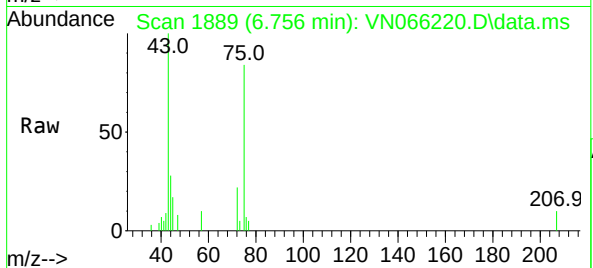
Tgt Ion: 84 Resp: 15409
Ion Ratio Lower Upper
84 100
49 153.3 130.0 195.0
51 48.2 39.1 58.7
86 65.0 50.9 76.3



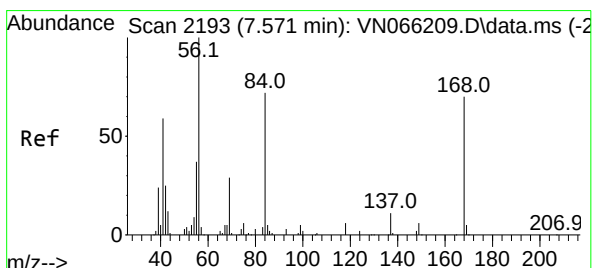
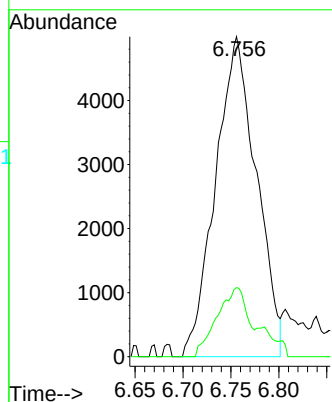
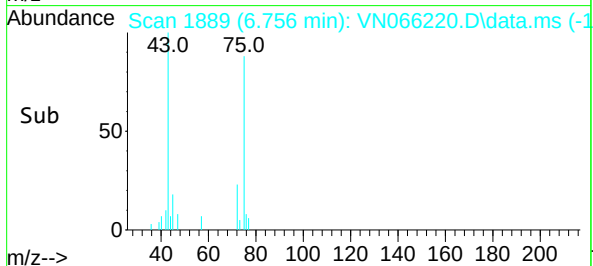


#25
2-Butanone
Concen: 5.22 ug/l
RT: 6.756 min Scan# 1889
Delta R.T. 0.008 min
Lab File: VN066220.D
Acq: 16 Mar 2021 19:02

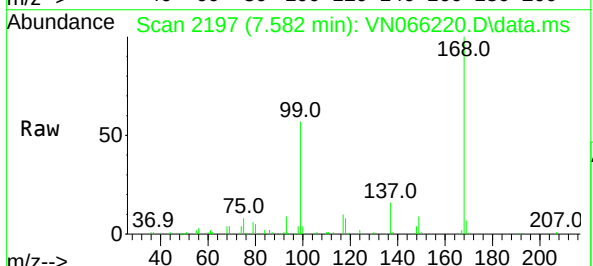
Instrument :
MSVOA_N
ClientSampled :



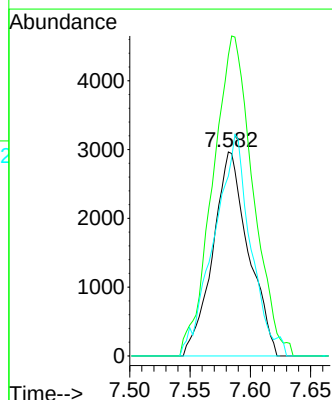
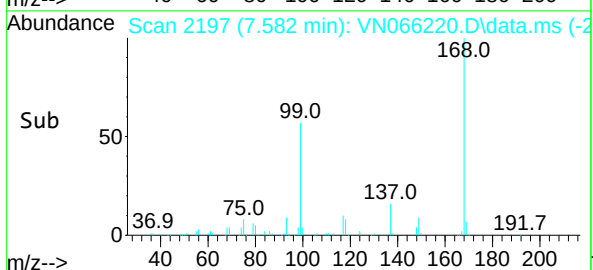
Tgt Ion: 43 Resp: 14805
Ion Ratio Lower Upper
43 100
72 21.6 16.2 24.2

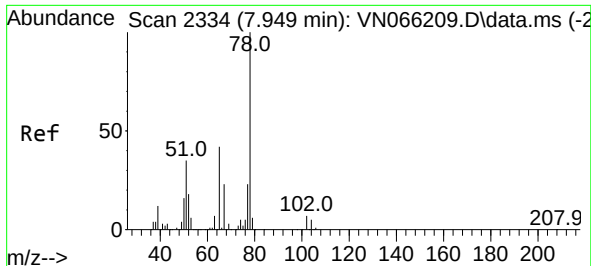


#31
Cyclohexane
Concen: 1.07 ug/l
RT: 7.582 min Scan# 2197
Delta R.T. 0.011 min
Lab File: VN066220.D
Acq: 16 Mar 2021 19:02



Tgt Ion: 56 Resp: 6092
Ion Ratio Lower Upper
56 100
69 147.3 23.4 35.0#
84 88.2 57.8 86.6#

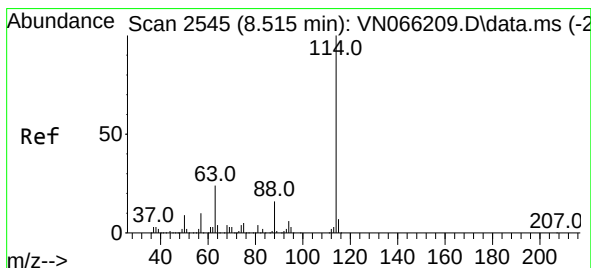
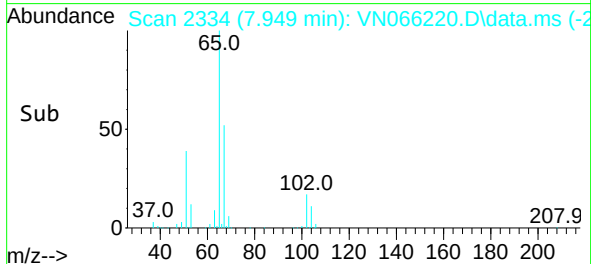
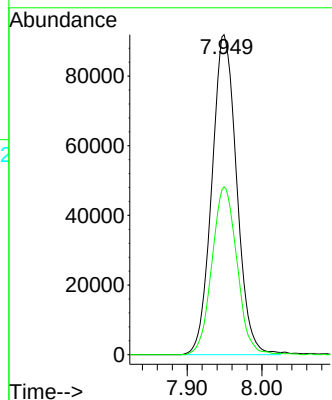
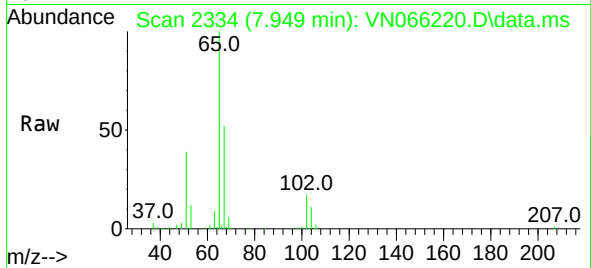




#33
1,2-Dichloroethane-d4
Concen: 55.73 ug/l
RT: 7.949 min Scan# 2334
Delta R.T. 0.000 min
Lab File: VN066220.D
Acq: 16 Mar 2021 19:02

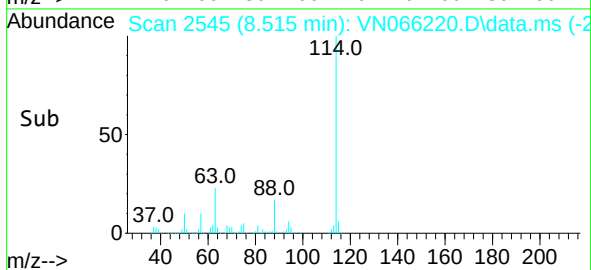
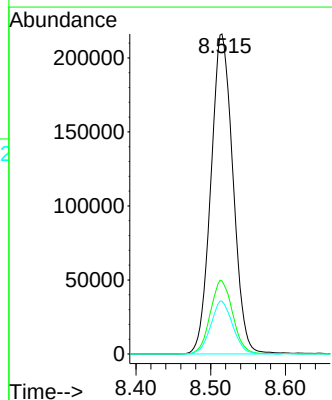
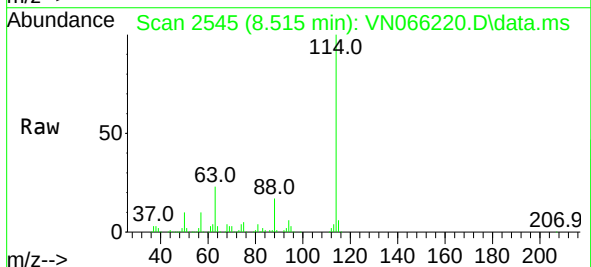
Instrument :
MSVOA_N
ClientSampled :

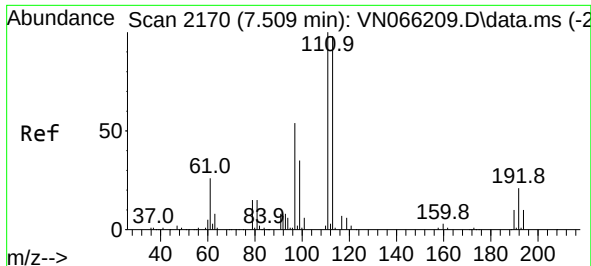
Tgt Ion: 65 Resp: 211763
Ion Ratio Lower Upper
65 100
67 52.8 0.0 107.2



#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.515 min Scan# 2545
Delta R.T. 0.000 min
Lab File: VN066220.D
Acq: 16 Mar 2021 19:02

Tgt Ion: 114 Resp: 442934
Ion Ratio Lower Upper
114 100
63 22.8 0.0 49.2
88 16.5 0.0 33.8

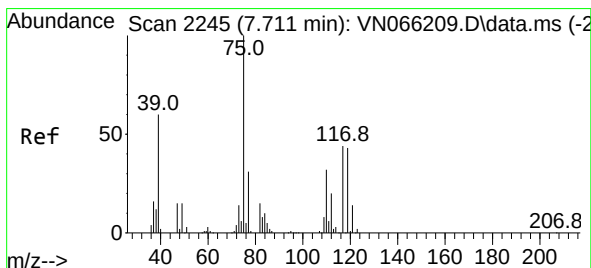
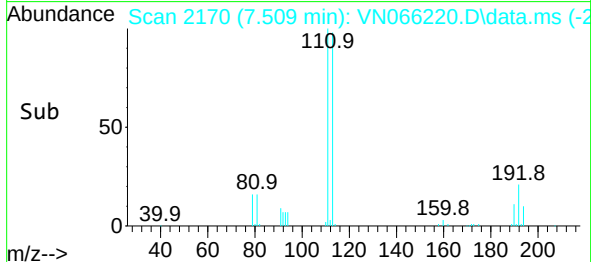
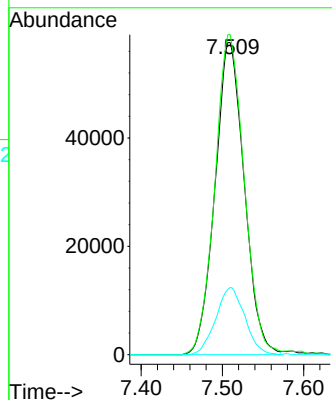
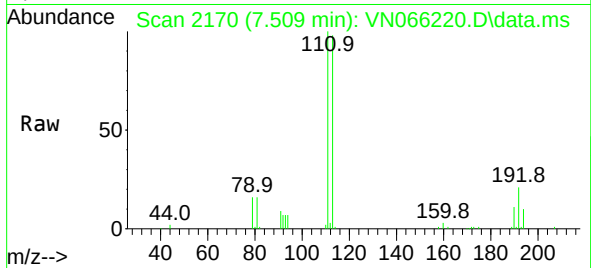




#35
Dibromofluoromethane
Concen: 50.88 ug/l
RT: 7.509 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN066220.D
Acq: 16 Mar 2021 19:02

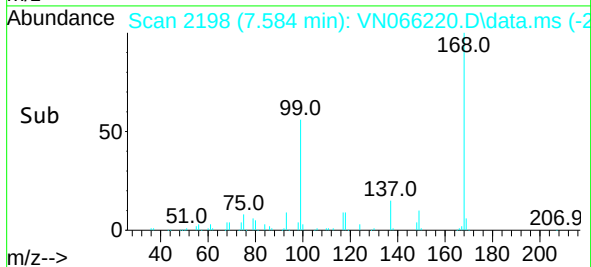
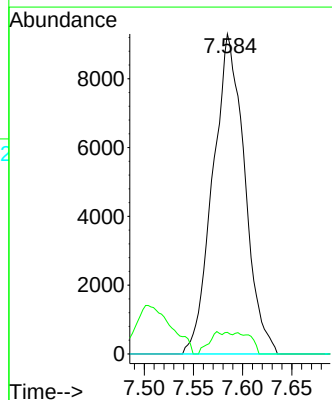
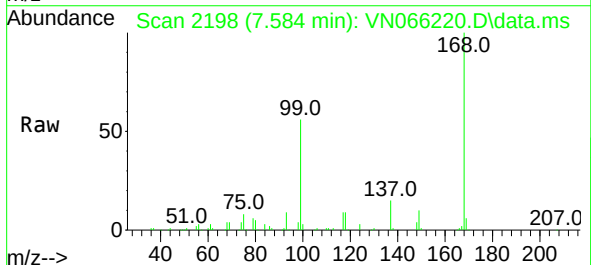
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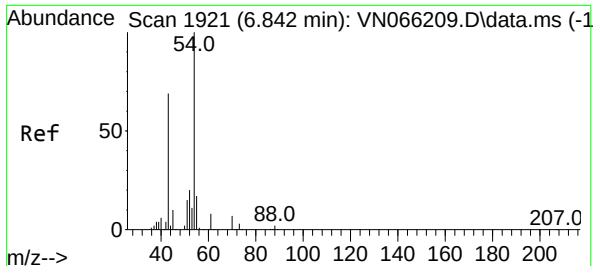
Tgt Ion:113 Resp: 143786
Ion Ratio Lower Upper
113 100
111 102.9 84.0 126.0
192 21.4 16.7 25.1



#36
1,1-Dichloropropene
Concen: 4.65 ug/l
RT: 7.584 min Scan# 2198
Delta R.T. -0.127 min
Lab File: VN066220.D
Acq: 16 Mar 2021 19:02

Tgt Ion: 75 Resp: 20863
Ion Ratio Lower Upper
75 100
110 2.9 16.0 48.0#
77 0.0 24.9 37.3#





#37

Ethyl Acetate

Concen: 2.31 ug/l

RT: 6.756 min Scan# 1889

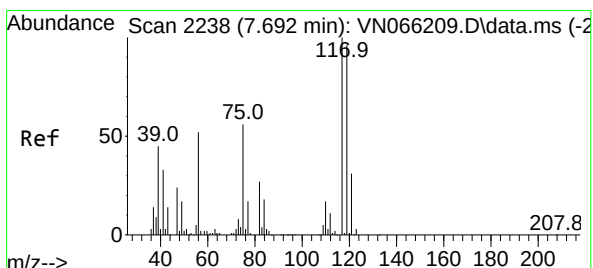
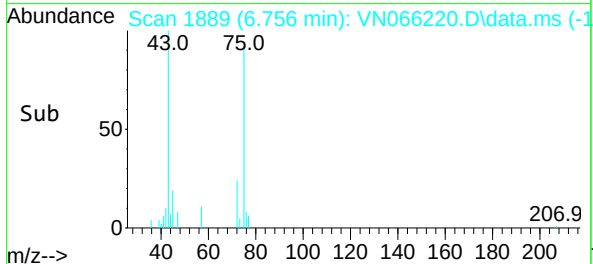
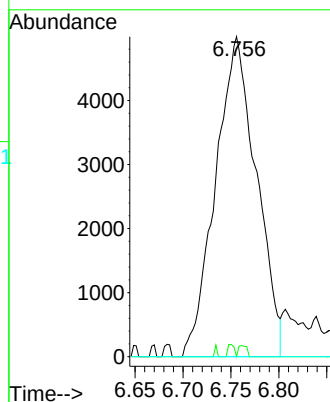
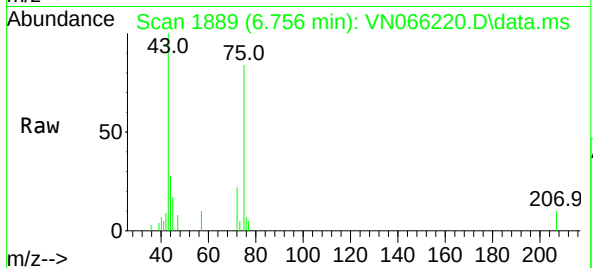
Delta R.T. -0.086 min

Lab File: VN066220.D

Acq: 16 Mar 2021 19:02

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:	43	Resp:	14805
Ion	Ratio	Lower	Upper
43	100		
61	0.7	9.2	13.8#
70	0.0	6.1	9.1#



#38

Carbon Tetrachloride

Concen: 6.21 ug/l

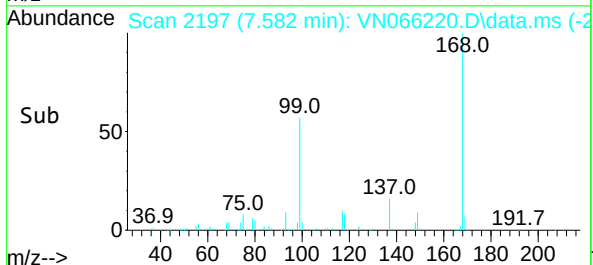
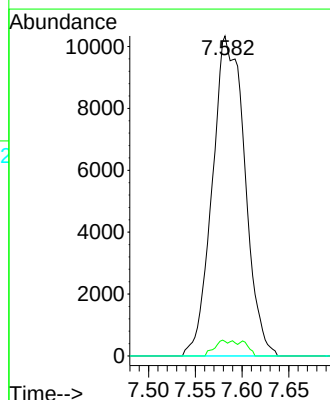
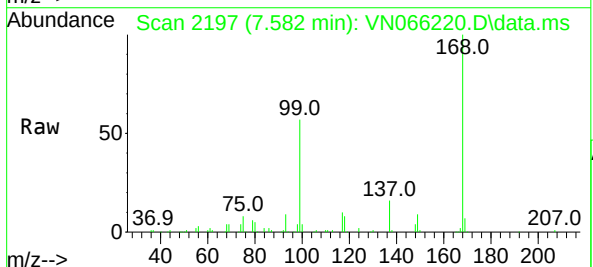
RT: 7.582 min Scan# 2197

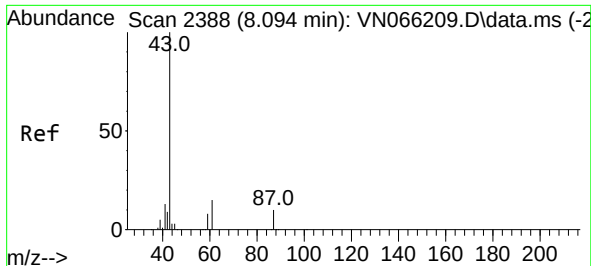
Delta R.T. -0.110 min

Lab File: VN066220.D

Acq: 16 Mar 2021 19:02

Tgt Ion:	117	Resp:	24952
Ion	Ratio	Lower	Upper
117	100		
119	4.5	74.6	111.8#
121	0.0	23.9	35.9#

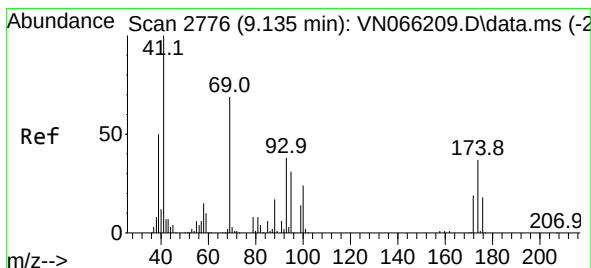
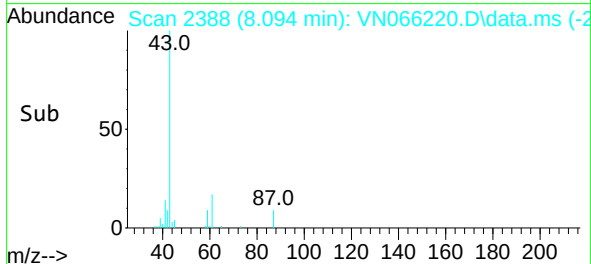
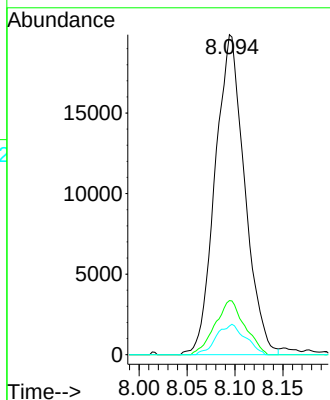
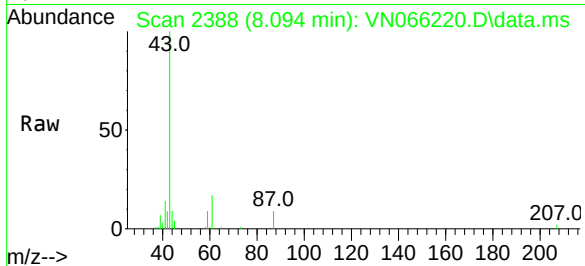




#43
Isopropyl Acetate
Concen: 4.28 ug/l
RT: 8.094 min Scan# 2388
Delta R.T. 0.000 min
Lab File: VN066220.D
Acq: 16 Mar 2021 19:02

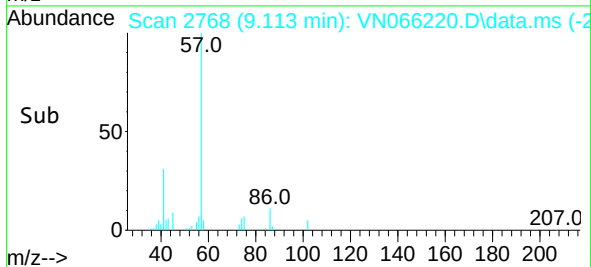
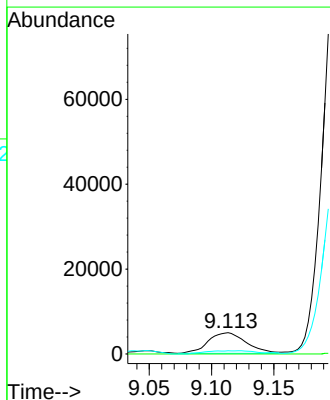
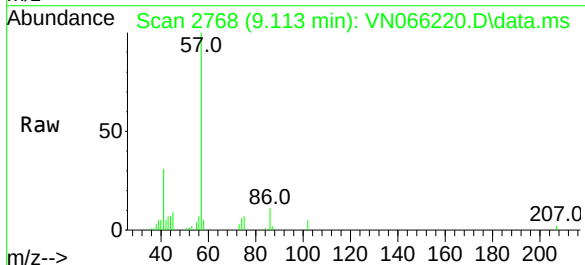
Instrument :
MSVOA_N
ClientSampled :

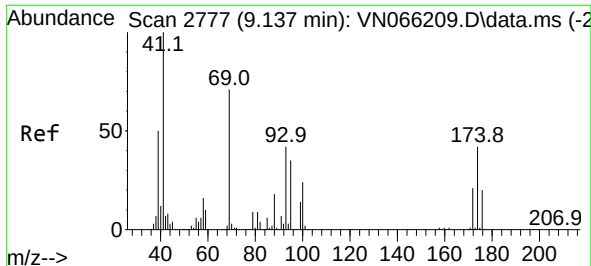
Tgt Ion:	43	Resp:	42473
Ion	Ratio	Lower	Upper
43	100		
61	17.1	14.0	21.0
87	9.3	7.9	11.9



#48
Methyl methacrylate
Concen: 2.17 ug/l
RT: 9.113 min Scan# 2768
Delta R.T. -0.022 min
Lab File: VN066220.D
Acq: 16 Mar 2021 19:02

Tgt Ion:	41	Resp:	10220
Ion	Ratio	Lower	Upper
41	100		
69	0.0	54.7	82.1#
39	0.0	40.2	60.2#





#49

1,4-Dioxane

Concen: 4.22 ug/l

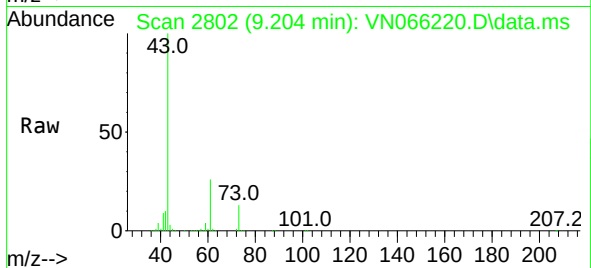
RT: 9.204 min Scan# 2802

Delta R.T. 0.067 min

Lab File: VN066220.D

Acq: 16 Mar 2021 19:02

Instrument :
MSVOA_N
ClientSampled :



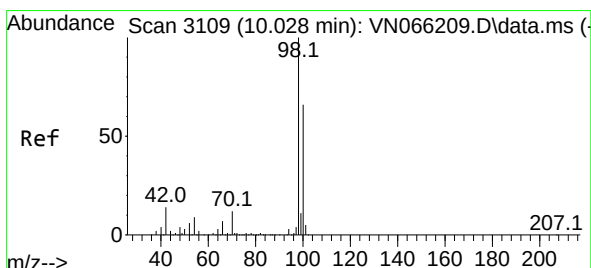
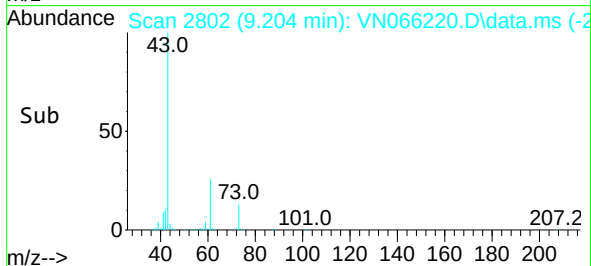
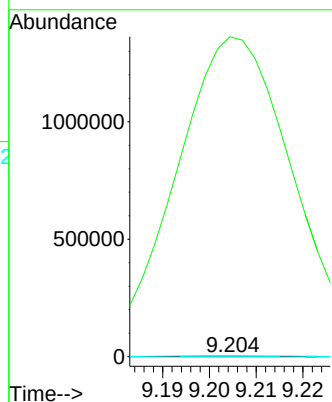
Tgt Ion: 88 Resp: 215

Ion Ratio Lower Upper

88 100

43 1143800.0 34.4 51.6#

58 4325.1 67.3 100.9#



#50

Toluene-d8

Concen: 49.74 ug/l

RT: 10.028 min Scan# 3109

Delta R.T. -0.000 min

Lab File: VN066220.D

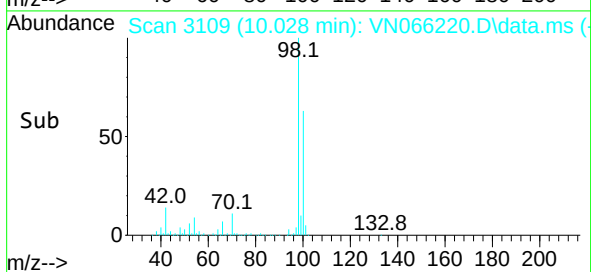
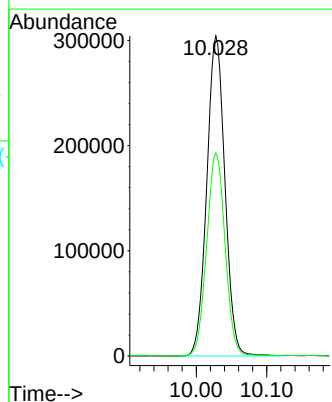
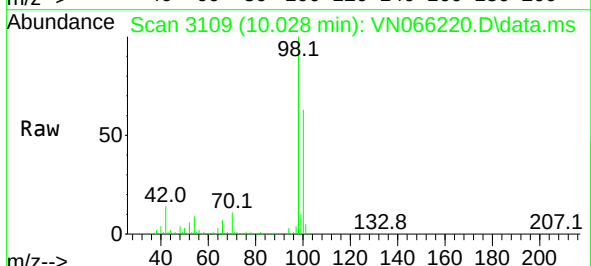
Acq: 16 Mar 2021 19:02

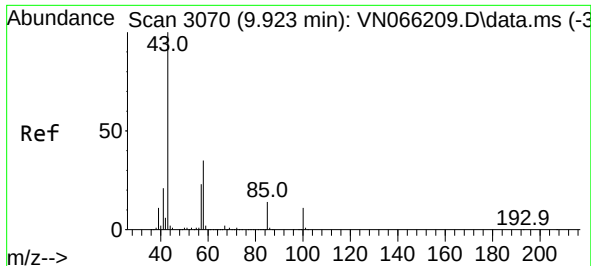
Tgt Ion: 98 Resp: 543467

Ion Ratio Lower Upper

98 100

100 64.4 51.0 76.6

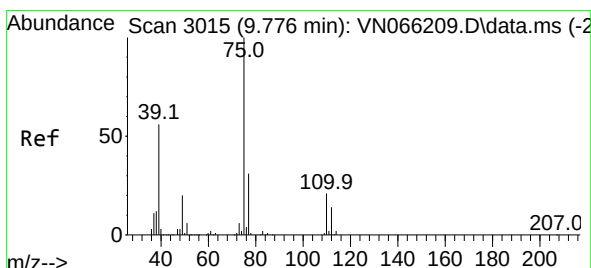
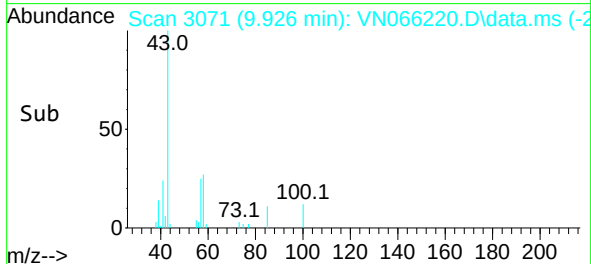
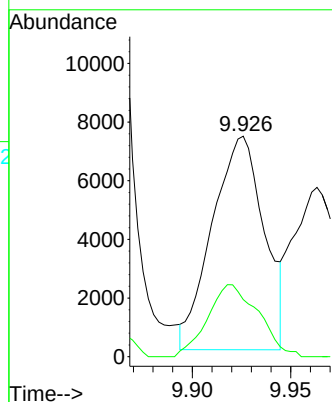
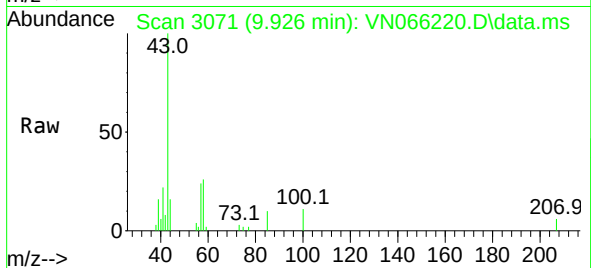




#51
4-Methyl-2-Pentanone
Concen: 2.23 ug/l
RT: 9.926 min Scan# 3071
Delta R.T. 0.003 min
Lab File: VN066220.D
Acq: 16 Mar 2021 19:02

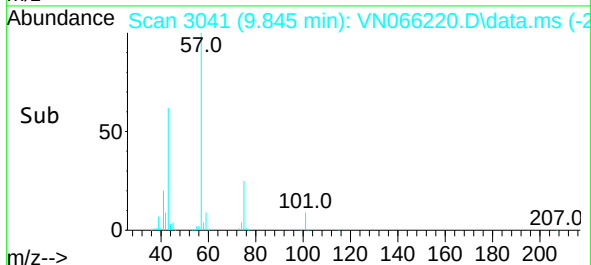
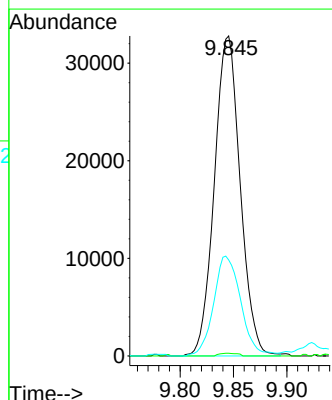
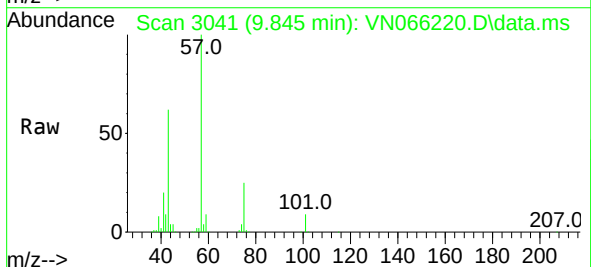
Instrument :
MSVOA_N
ClientSampled :

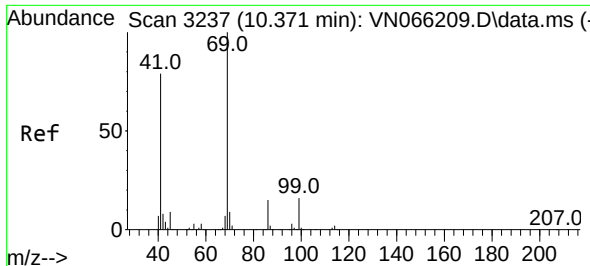
Tgt Ion: 43 Resp: 13385
Ion Ratio Lower Upper
43 100
58 32.9 27.5 41.3



#54
cis-1,3-Dichloropropene
Concen: 9.49 ug/l
RT: 9.845 min Scan# 3041
Delta R.T. 0.069 min
Lab File: VN066220.D
Acq: 16 Mar 2021 19:02

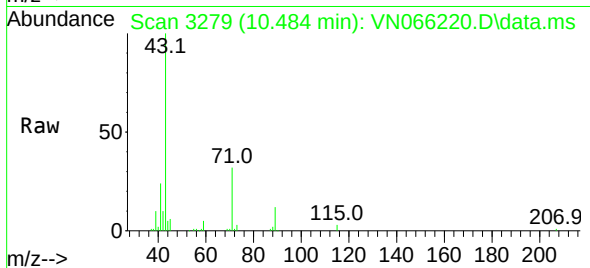
Tgt Ion: 75 Resp: 55205
Ion Ratio Lower Upper
75 100
77 0.9 25.0 37.4#
39 30.0 46.2 69.2#



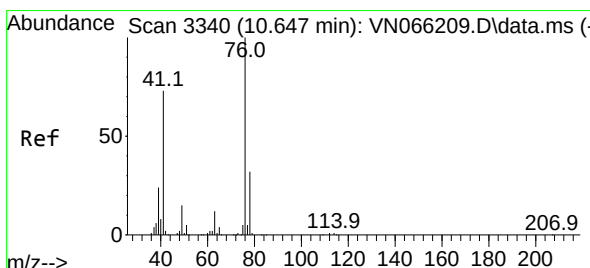
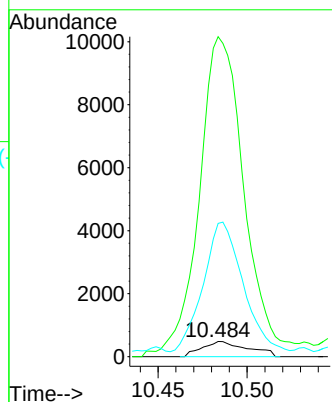
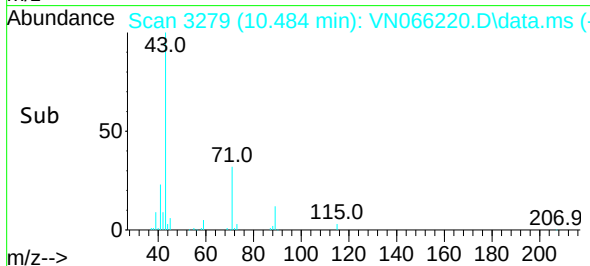


#56
Ethyl methacrylate
Concen: 2.30 ug/l
RT: 10.484 min Scan# 3279
Delta R.T. 0.113 min
Lab File: VN066220.D
Acq: 16 Mar 2021 19:02

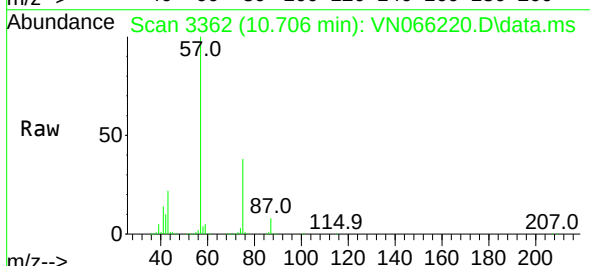
Instrument :
MSVOA_N
ClientSampled :



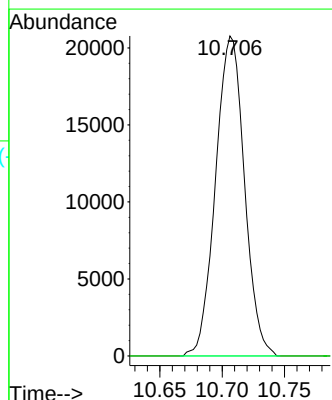
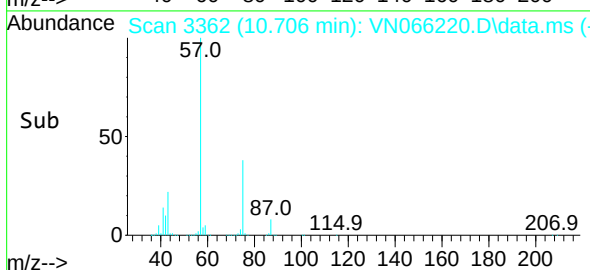
Tgt Ion: 69 Resp: 857
Ion Ratio Lower Upper
69 100
41 2091.5 66.2 99.4#
39 768.4 31.5 47.3#

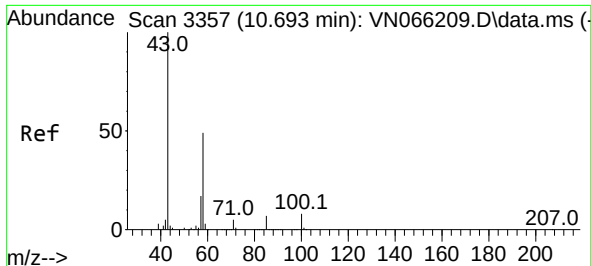


#57
1,3-Dichloropropane
Concen: 5.80 ug/l
RT: 10.706 min Scan# 3362
Delta R.T. 0.059 min
Lab File: VN066220.D
Acq: 16 Mar 2021 19:02



Tgt Ion: 76 Resp: 33468
Ion Ratio Lower Upper
76 100
78 0.0 25.4 38.2#

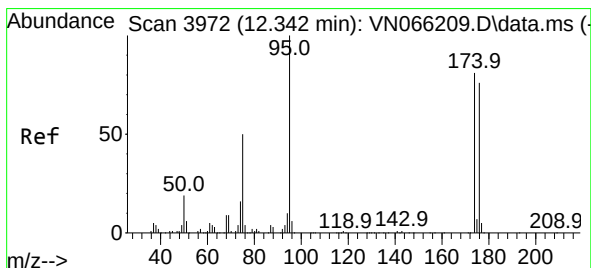
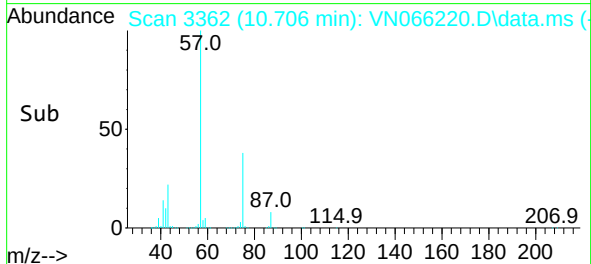
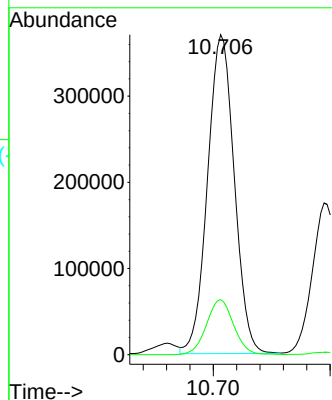
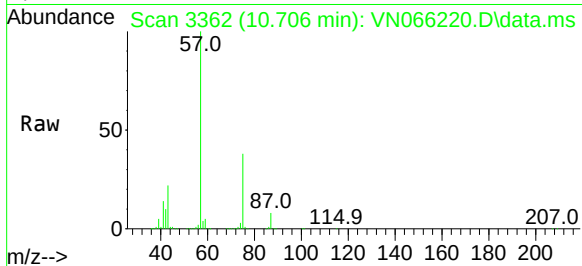




#59
2-Hexanone
Concen: 126.13 ug/l
RT: 10.706 min Scan# 3362
Delta R.T. 0.013 min
Lab File: VN066220.D
Acq: 16 Mar 2021 19:02

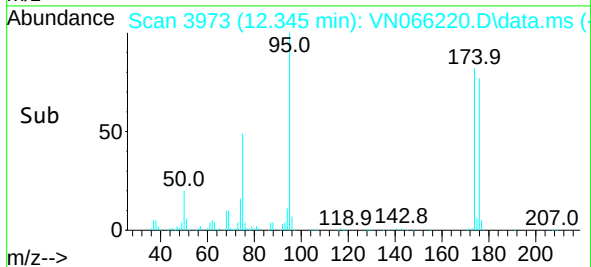
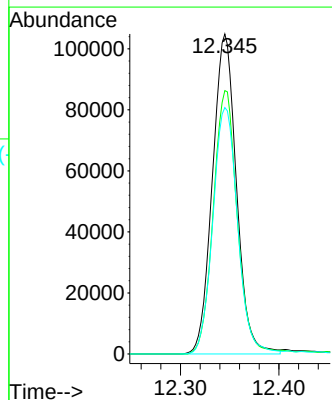
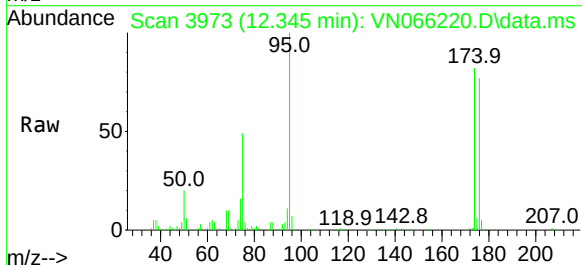
Instrument :
MSVOA_N
ClientSampleId :

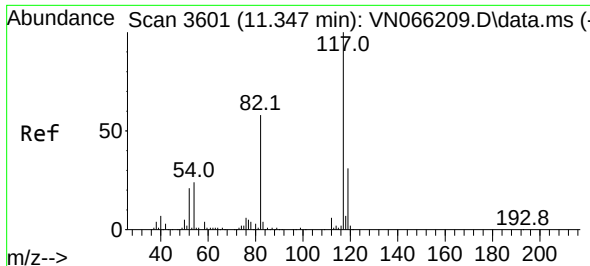
Tgt Ion: 43 Resp: 587715
Ion Ratio Lower Upper
43 100
58 17.6 23.8 71.5#



#62
4-Bromofluorobenzene
Concen: 45.21 ug/l
RT: 12.345 min Scan# 3973
Delta R.T. 0.003 min
Lab File: VN066220.D
Acq: 16 Mar 2021 19:02

Tgt Ion: 95 Resp: 178048
Ion Ratio Lower Upper
95 100
174 82.7 0.0 162.4
176 79.2 0.0 156.2

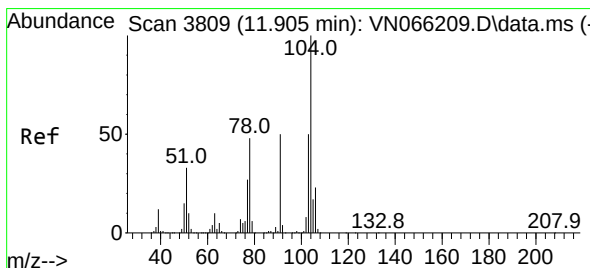
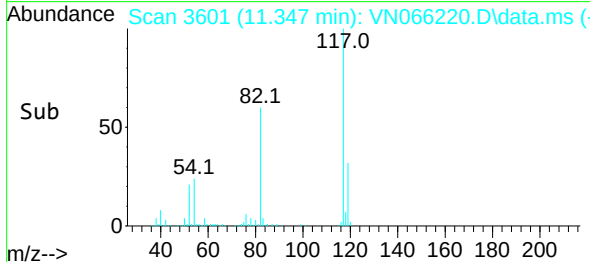
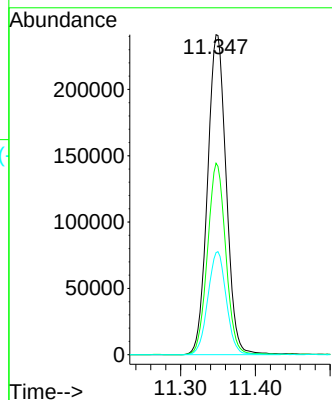
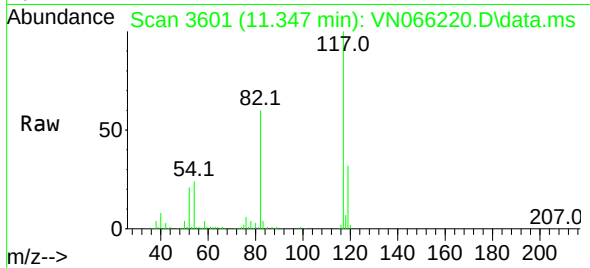




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.347 min Scan# 3601
Delta R.T. 0.000 min
Lab File: VN066220.D
Acq: 16 Mar 2021 19:02

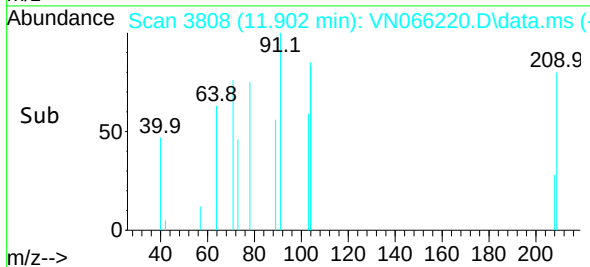
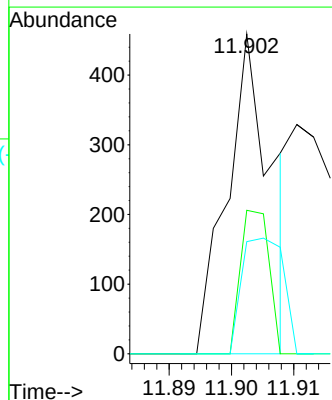
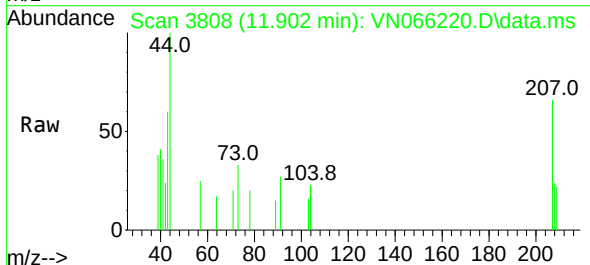
Instrument :
MSVOA_N
ClientSampled :

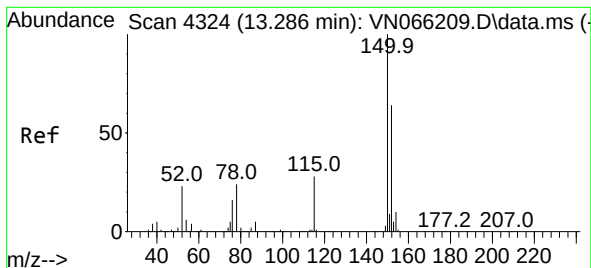
Tgt Ion:117 Resp: 417948
Ion Ratio Lower Upper
117 100
82 59.8 49.0 73.6
119 31.9 25.7 38.5



#70
Styrene
Concen: 2.17 ug/l
RT: 11.902 min Scan# 3808
Delta R.T. -0.003 min
Lab File: VN066220.D
Acq: 16 Mar 2021 19:02

Tgt Ion:104 Resp: 226
Ion Ratio Lower Upper
104 100
78 29.2 43.8 65.6#
103 34.1 43.7 65.5#

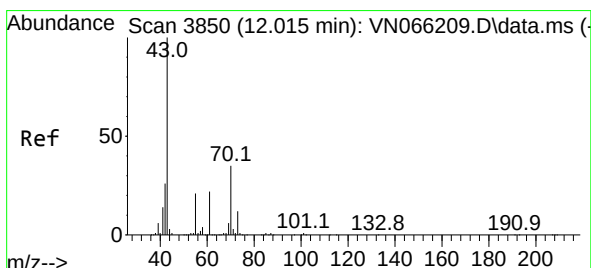
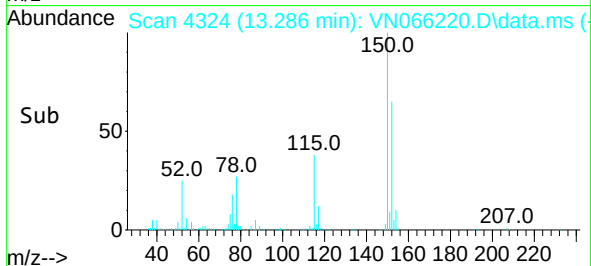
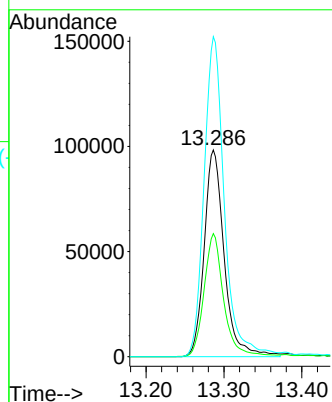
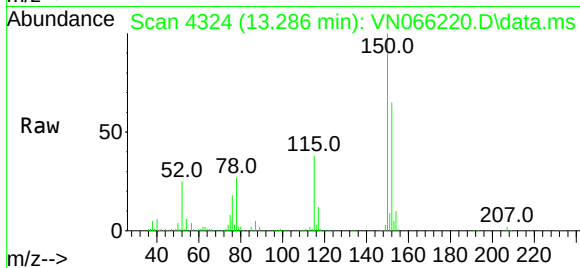




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.286 min Scan# 4324
Delta R.T. 0.000 min
Lab File: VN066220.D
Acq: 16 Mar 2021 19:02

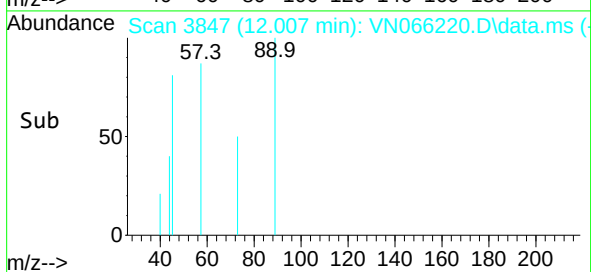
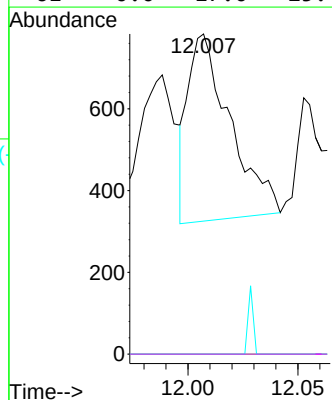
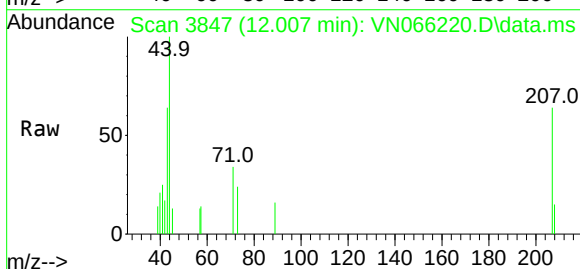
Instrument :
MSVOA_N
ClientSampled :

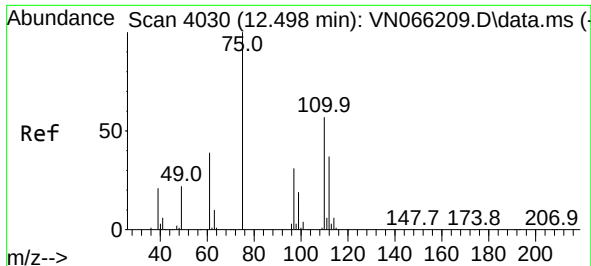
Tgt Ion:152 Resp: 176118
Ion Ratio Lower Upper
152 100
115 58.3 29.4 88.3
150 156.7 0.0 352.2



#74
N-ethyl acetate
Concen: 2.24 ug/l
RT: 12.007 min Scan# 3847
Delta R.T. -0.008 min
Lab File: VN066220.D
Acq: 16 Mar 2021 19:02

Tgt Ion: 43 Resp: 608
Ion Ratio Lower Upper
43 100
70 0.0 26.2 39.4#
55 0.0 17.2 25.8#
61 0.0 17.0 25.4#

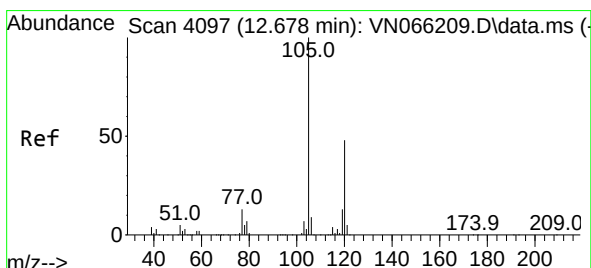
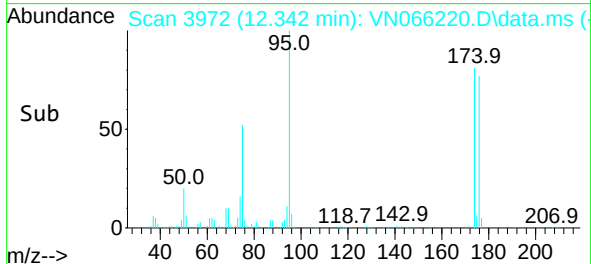
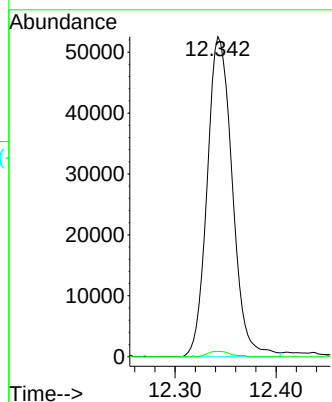
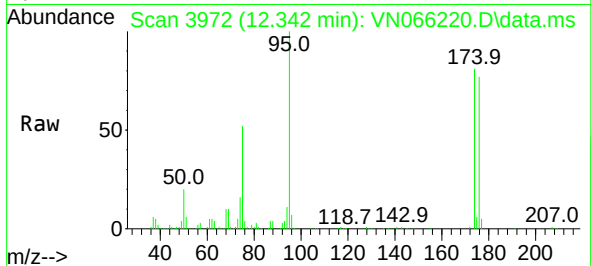




#76
1,2,3-Trichloropropane
Concen: 19.97 ug/l
RT: 12.342 min Scan# 3972
Delta R.T. -0.156 min
Lab File: VN066220.D
Acq: 16 Mar 2021 19:02

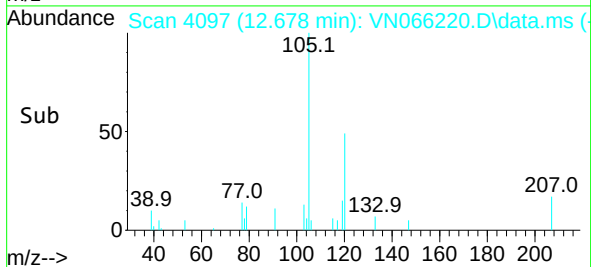
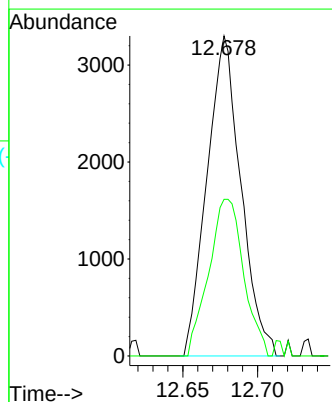
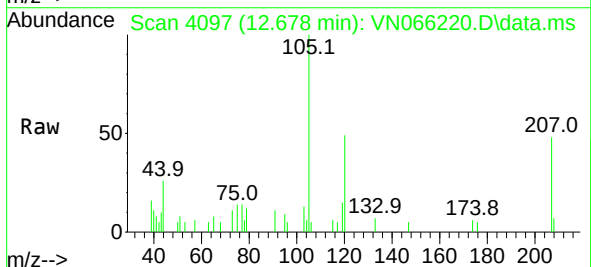
Instrument :
MSVOA_N
ClientSampleId :

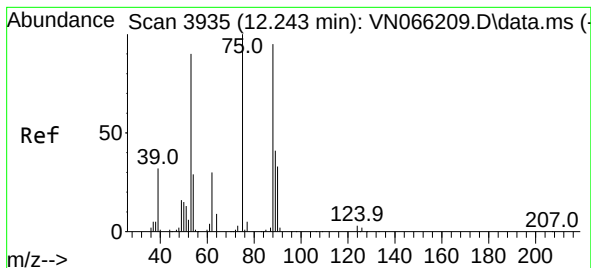
Tgt Ion: 75 Resp: 90807
Ion Ratio Lower Upper
75 100
77 1.5 0.0 0.0#



#80
1,3,5-Trimethylbenzene
Concen: 0.51 ug/l
RT: 12.678 min Scan# 4097
Delta R.T. -0.000 min
Lab File: VN066220.D
Acq: 16 Mar 2021 19:02

Tgt Ion: 105 Resp: 5201
Ion Ratio Lower Upper
105 100
120 50.4 23.9 71.8

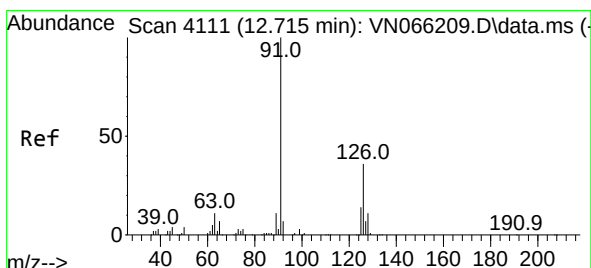
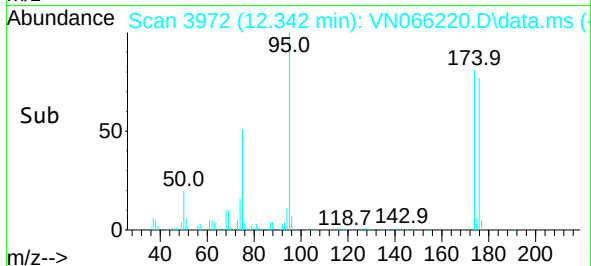
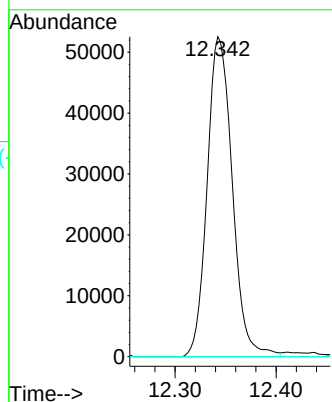
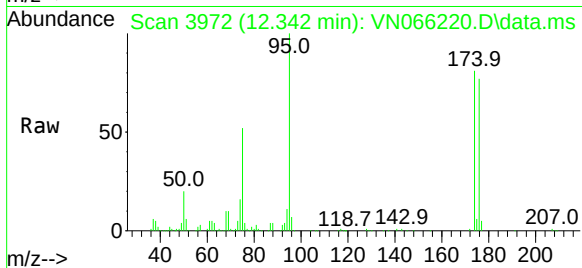




#81
trans-1,4-Dichloro-2-butene
Concen: 59.75 ug/l
RT: 12.342 min Scan# 3972
Delta R.T. 0.099 min
Lab File: VN066220.D
Acq: 16 Mar 2021 19:02

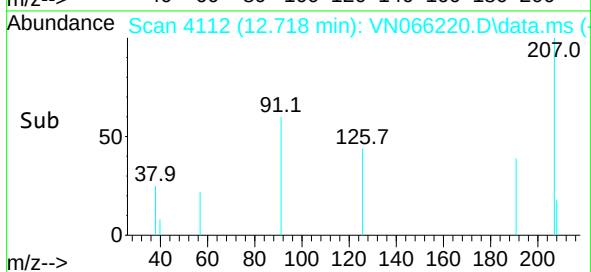
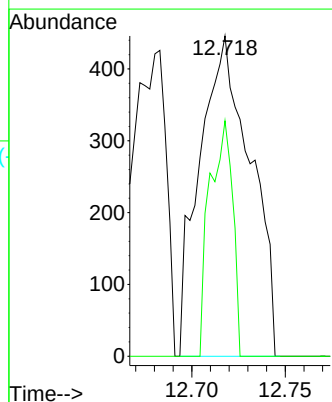
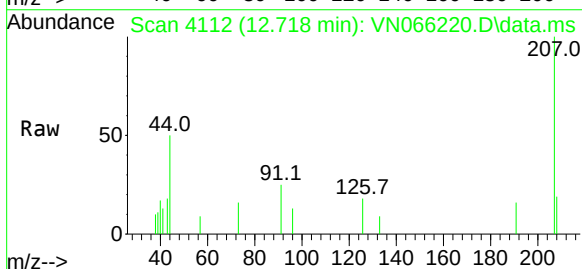
Instrument :
MSVOA_N
ClientSampleId :

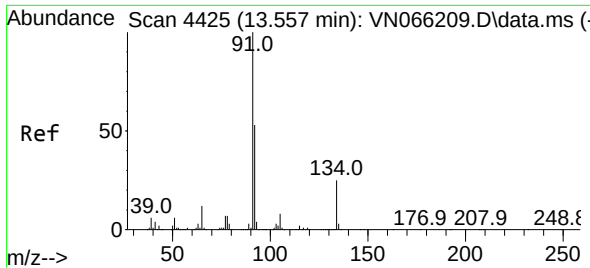
Tgt Ion: 75 Resp: 90807
Ion Ratio Lower Upper
75 100
53 0.0 77.8 116.6#
89 0.0 33.7 50.5#



#82
4-Chlorotoluene
Concen: 0.56 ug/l
RT: 12.718 min Scan# 4112
Delta R.T. 0.003 min
Lab File: VN066220.D
Acq: 16 Mar 2021 19:02

Tgt Ion: 91 Resp: 845
Ion Ratio Lower Upper
91 100
126 33.1 15.7 47.1

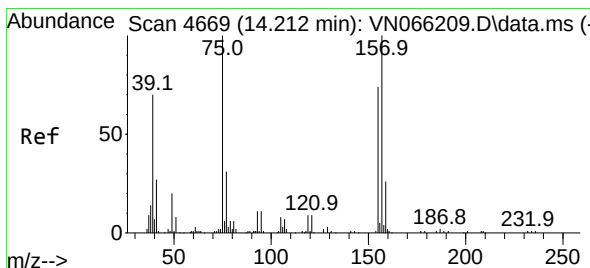
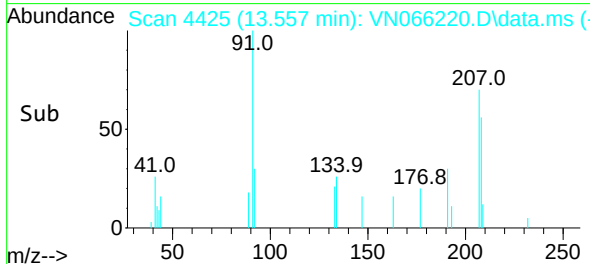
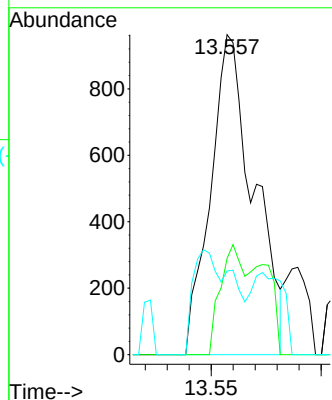
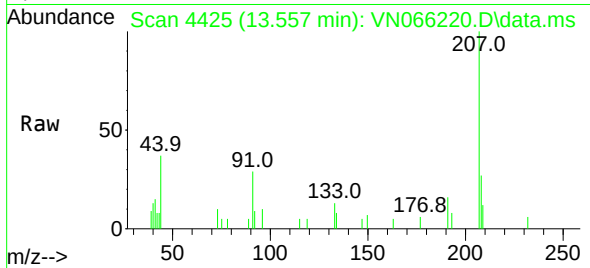




#89
n-Butylbenzene
Concen: 2.36 ug/l
RT: 13.557 min Scan# 4425
Delta R.T. 0.000 min
Lab File: VN066220.D
Acq: 16 Mar 2021 19:02

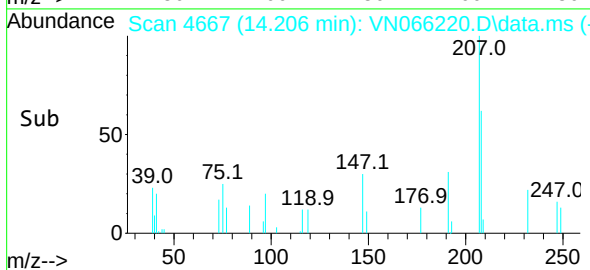
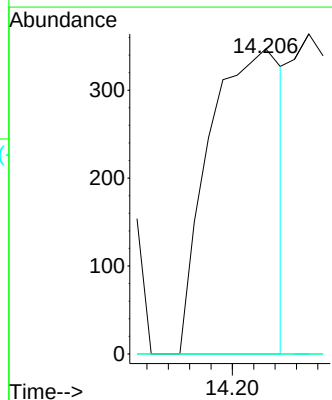
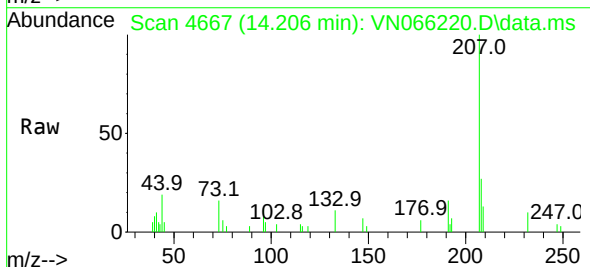
Instrument :
MSVOA_N
ClientSampleId :

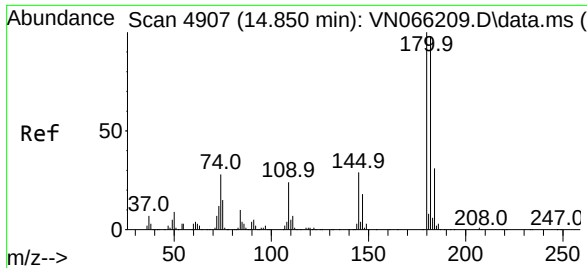
Tgt Ion: 91 Resp: 1313
Ion Ratio Lower Upper
91 100
92 18.4 25.7 77.0#
134 19.6 11.8 35.4



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.17 ug/l
RT: 14.206 min Scan# 4667
Delta R.T. -0.006 min
Lab File: VN066220.D
Acq: 16 Mar 2021 19:02

Tgt Ion: 75 Resp: 327
Ion Ratio Lower Upper
75 100
155 0.0 36.5 109.7#
157 0.0 46.3 138.8#

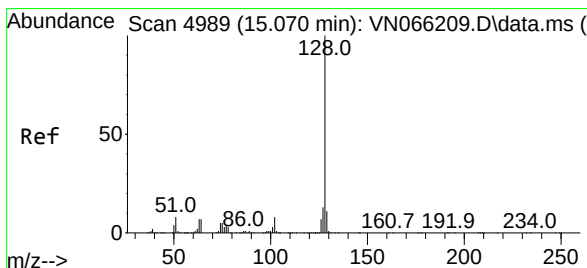
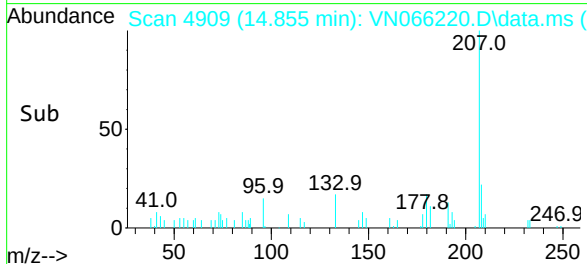
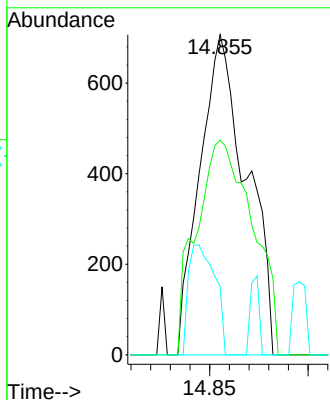
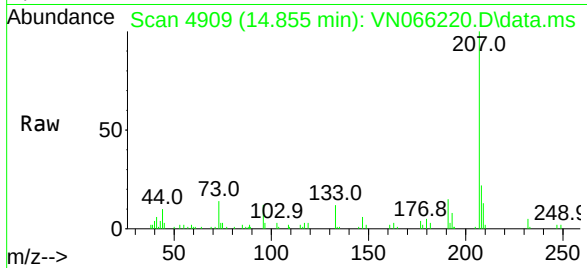




#93
1,2,4-Trichlorobenzene
Concen: 0.33 ug/l
RT: 14.855 min Scan# 4909
Delta R.T. 0.005 min
Lab File: VN066220.D
Acq: 16 Mar 2021 19:02

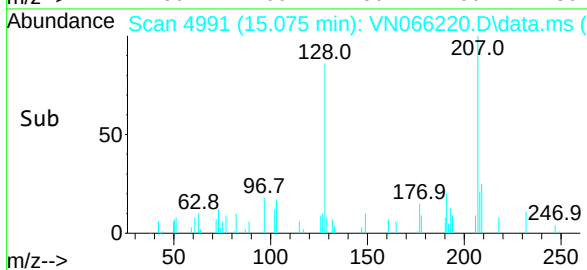
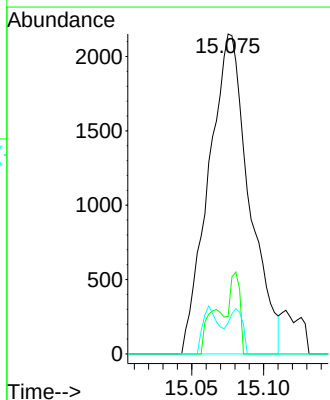
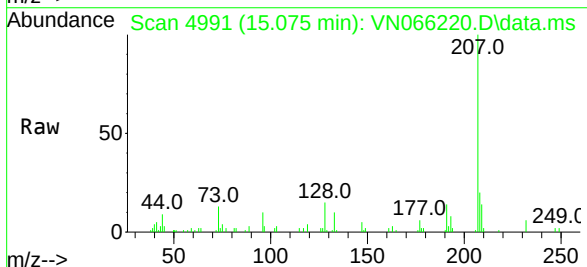
Instrument :
MSVOA_N
ClientSampleId :

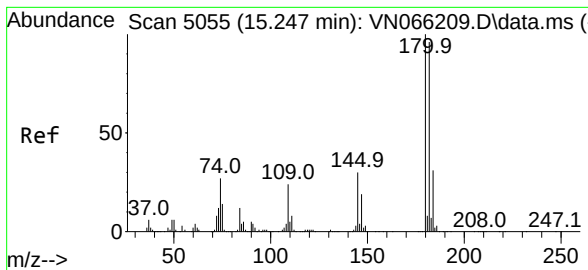
Tgt Ion:180 Resp: 1162
Ion Ratio Lower Upper
180 100
182 81.2 47.4 142.2
145 19.5 14.1 42.3



#95
Naphthalene
Concen: 0.41 ug/l
RT: 15.075 min Scan# 4991
Delta R.T. 0.005 min
Lab File: VN066220.D
Acq: 16 Mar 2021 19:02

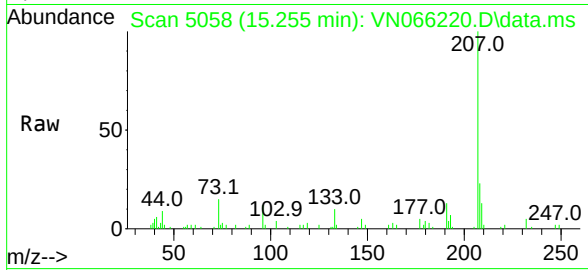
Tgt Ion:128 Resp: 4216
Ion Ratio Lower Upper
128 100
127 6.7 10.3 15.5#
129 4.8 8.4 12.6#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.30 ug/l
 RT: 15.255 min Scan# 5058
 Delta R.T. 0.008 min
 Lab File: VN066220.D
 Acq: 16 Mar 2021 19:02

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
180	100		
182	81.6	47.9	143.8
145	7.8	15.6	46.8#

