

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031621\
 Data File : VN066221.D
 Acq On : 16 Mar 2021 19:25
 Operator : JC/MD
 Sample : PB135187TB
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 17 05:24:47 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)

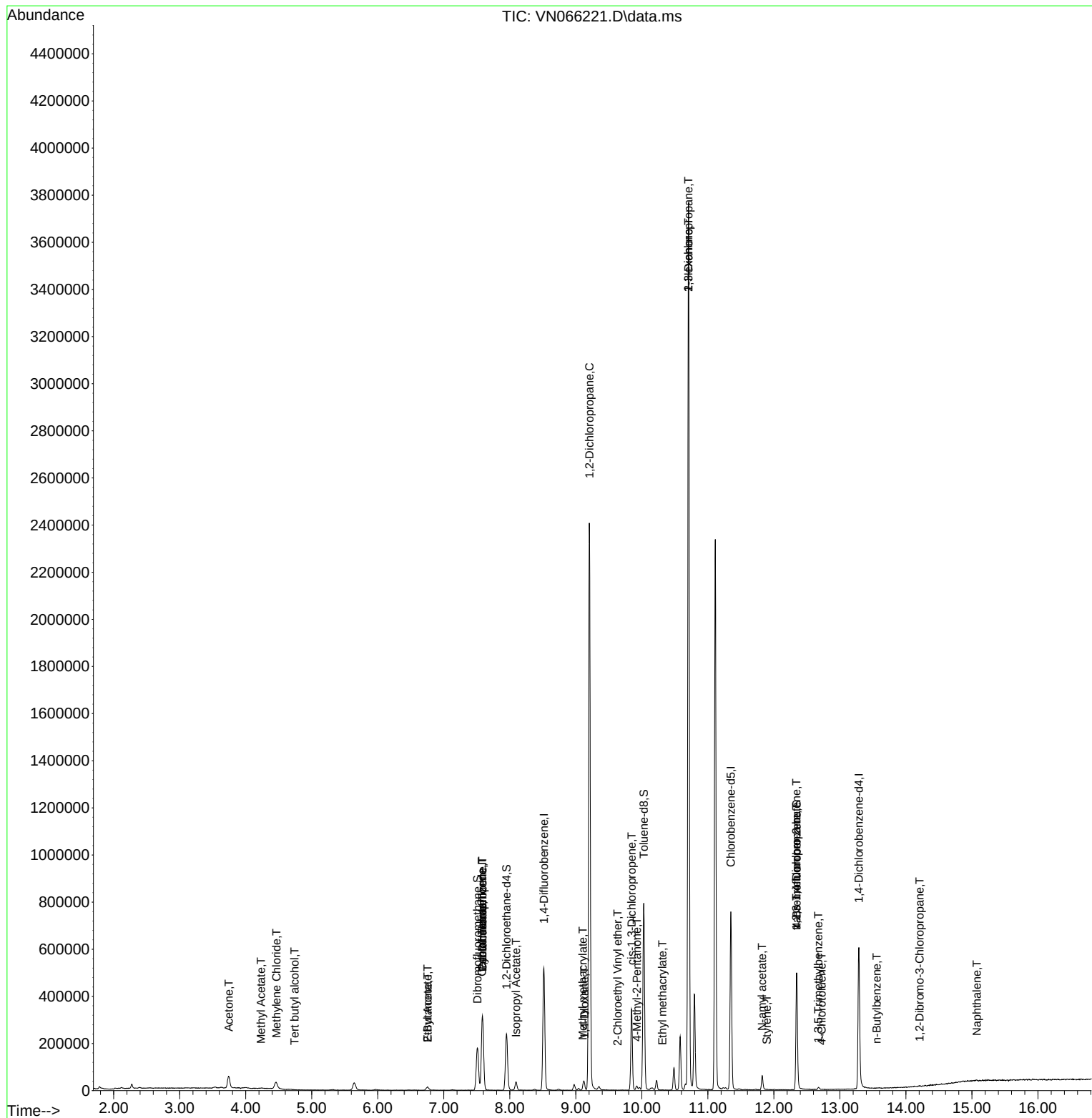
Internal Standards						
1) Pentafluorobenzene	7.585	168	260703	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.515	114	435116	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.347	117	406294	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.286	152	175805	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.949	65	204975	54.57	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 109.14%			
35) Dibromofluoromethane	7.509	113	139017	50.08	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 100.16%			
50) Toluene-d8	10.028	98	520261	48.47	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 96.94%			
62) 4-Bromofluorobenzene	12.345	95	170517	44.08	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 88.16%			
Target Compounds						Qvalue
11) Tert butyl alcohol	4.739	59	326	0.51	ug/l #	73
13) Acrolein	3.527	56	2067	Below Cal		90
16) Acetone	3.741	43	86861	48.14	ug/l	98
18) Methyl Acetate	4.232	43	1334	0.26	ug/l #	49
20) Methylene Chloride	4.465	84	17496	6.20	ug/l	84
25) 2-Butanone	6.753	43	14354	5.12	ug/l #	87
31) Cyclohexane	7.585	56	6232	1.11	ug/l #	1
36) 1,1-Dichloropropene	7.585	75	21107	4.79	ug/l #	48
37) Ethyl Acetate	6.753	43	14354	2.28	ug/l #	74
38) Carbon Tetrachloride	7.579	117	12149	3.08	ug/l #	16
43) Isopropyl Acetate	8.094	43	41906	4.30	ug/l	99
45) 1,2-Dichloropropane	9.204	63	2976	0.78	ug/l #	44
48) Methyl methacrylate	9.105	41	10180	2.21	ug/l #	21
49) 1,4-Dioxane	9.132	88	51	1.02	ug/l #	1
51) 4-Methyl-2-Pentanone	9.923	43	13170	2.24	ug/l	92
54) cis-1,3-Dichloropropene	9.845	75	54109	9.47	ug/l #	58
56) Ethyl methacrylate	10.312	69	180	2.19	ug/l #	17
57) 1,3-Dichloropropane	10.704	76	33312	5.88	ug/l #	43
58) 2-Chloroethyl Vinyl ether	9.634	63	25	46.33	ug/l #	54
59) 2-Hexanone	10.706	43	585256	127.84	ug/l #	54
70) Styrene	11.894	104	470	2.20	ug/l #	24
74) N-amyl acetate	11.822	43	21718	5.20	ug/l #	60
76) 1,2,3-Trichloropropane	12.342	75	88288	19.45	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.675	105	4527	0.44	ug/l	91
81) trans-1,4-Dichloro-2-b...	12.342	75	88288	58.19	ug/l #	11
82) 4-Chlorotoluene	12.723	91	409	0.51	ug/l	83
89) n-Butylbenzene	13.557	91	449	2.28	ug/l	86
92) 1,2-Dibromo-3-Chloropr...	14.209	75	180	1.02	ug/l #	8
95) Naphthalene	15.075	128	2744	0.27	ug/l	98

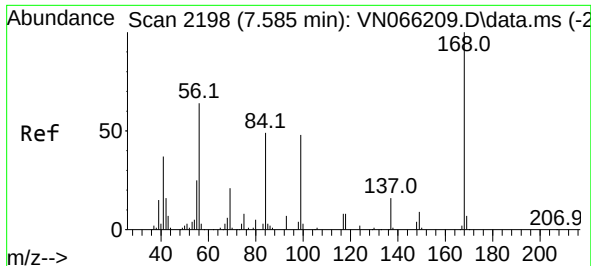
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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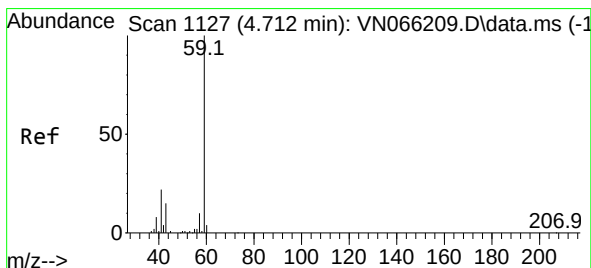
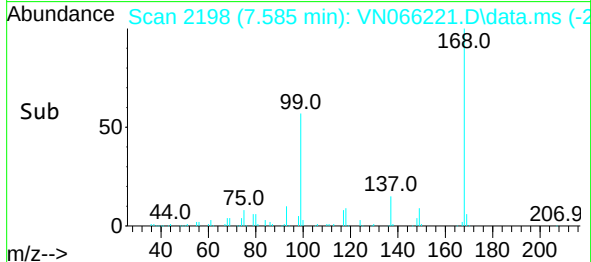
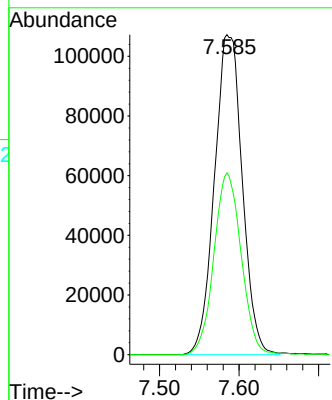
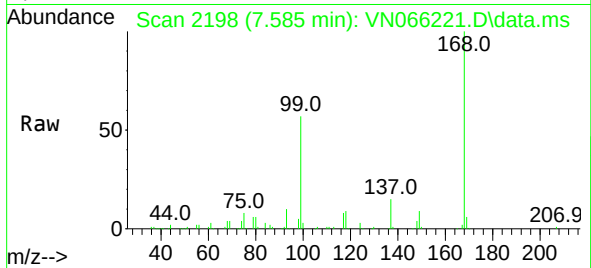




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.585 min Scan# 2198
Delta R.T. -0.000 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

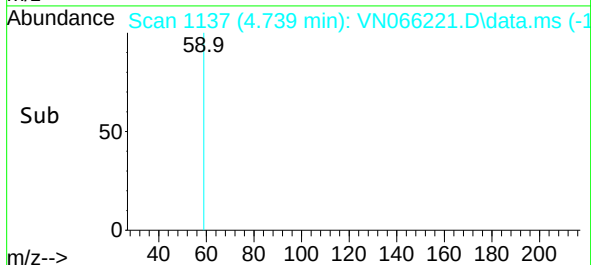
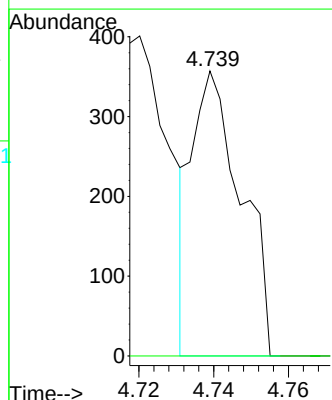
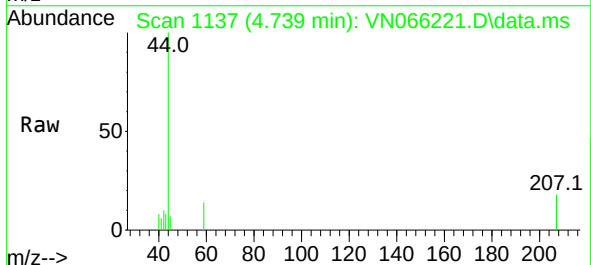
Instrument :
MSVOA_N
ClientSampled :

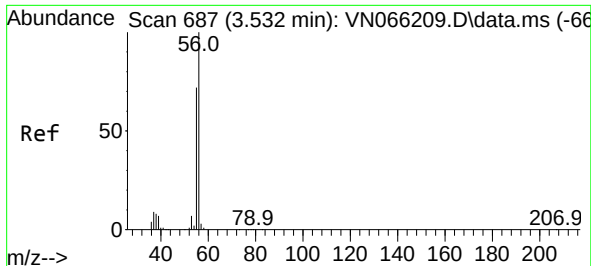
Tgt Ion:168 Resp: 260703
Ion Ratio Lower Upper
168 100
99 56.8 45.4 68.0



#11
Tert butyl alcohol
Concen: 0.51 ug/l
RT: 4.739 min Scan# 1137
Delta R.T. 0.027 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

Tgt Ion: 59 Resp: 326
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#

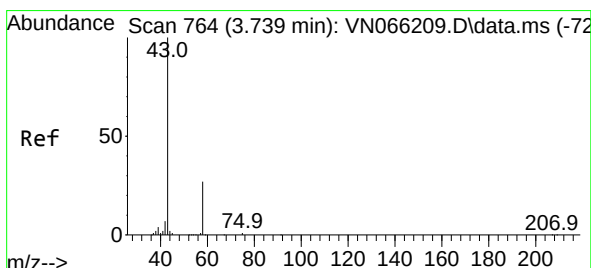
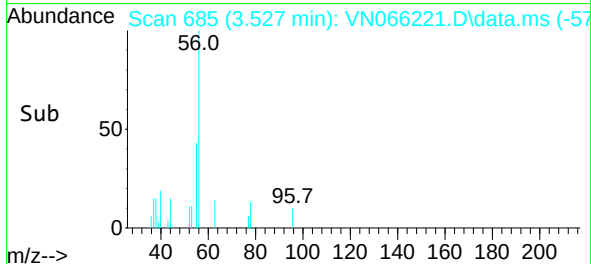
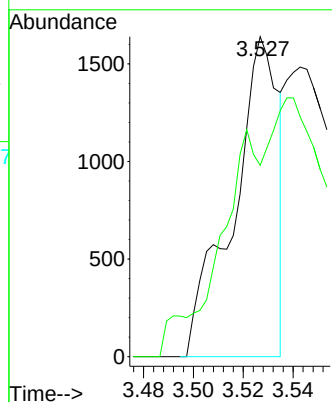
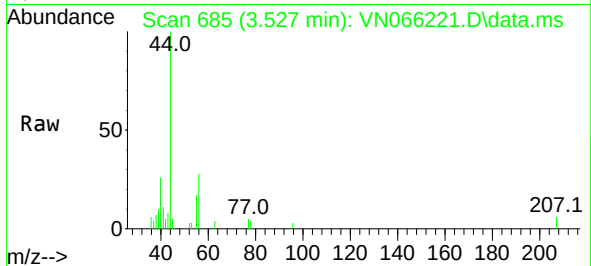




#13
Acrolein
Concen: Below Cal
RT: 3.527 min Scan# 685
Delta R.T. -0.005 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

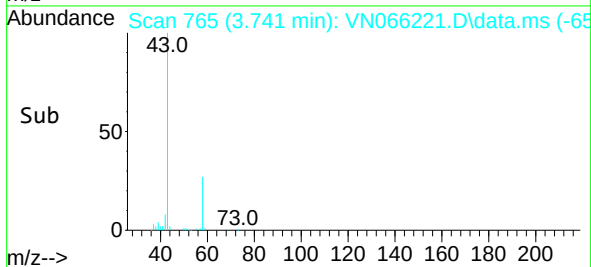
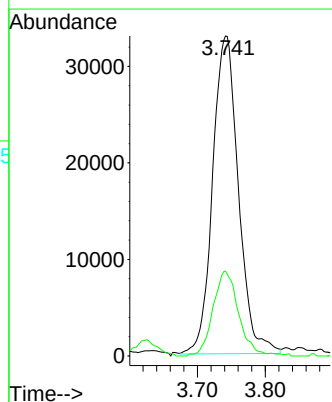
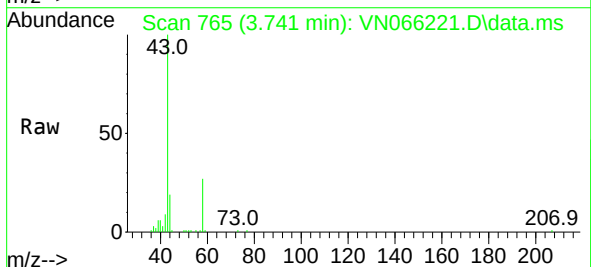
Instrument :
MSVOA_N
ClientSampled :

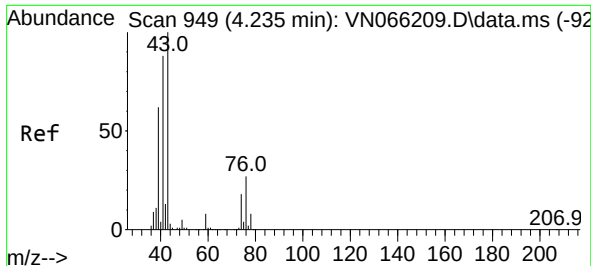
Tgt Ion: 56 Resp: 2067
Ion Ratio Lower Upper
56 100
55 64.4 58.0 87.0



#16
Acetone
Concen: 48.14 ug/l
RT: 3.741 min Scan# 765
Delta R.T. 0.002 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

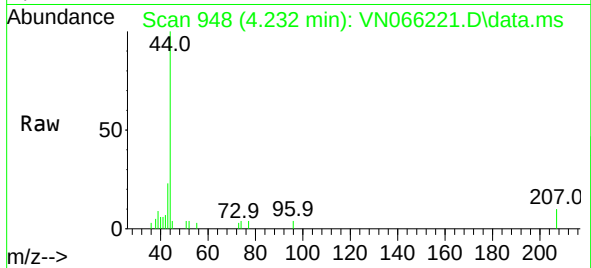
Tgt Ion: 43 Resp: 86861
Ion Ratio Lower Upper
43 100
58 26.7 22.3 33.5



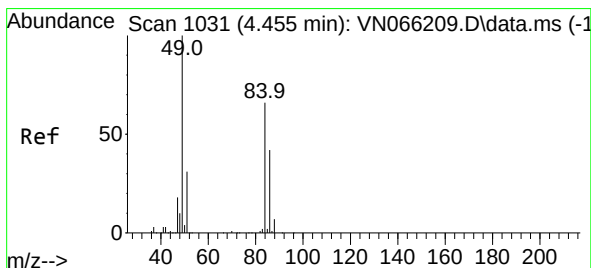
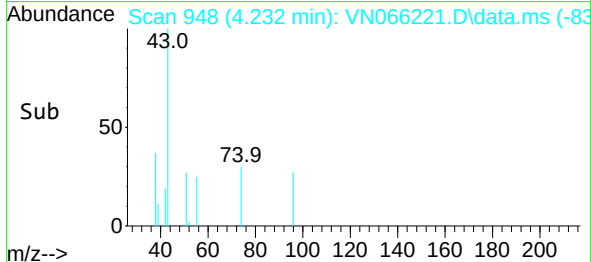
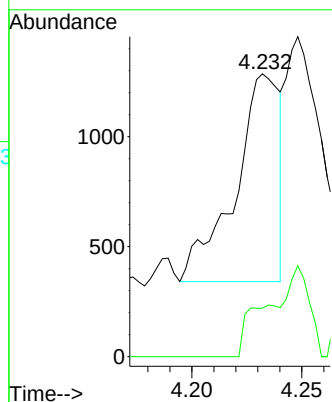


#18
Methyl Acetate
Concen: 0.26 ug/l
RT: 4.232 min Scan# 948
Delta R.T. -0.003 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

Instrument :
MSVOA_N
ClientSampled :

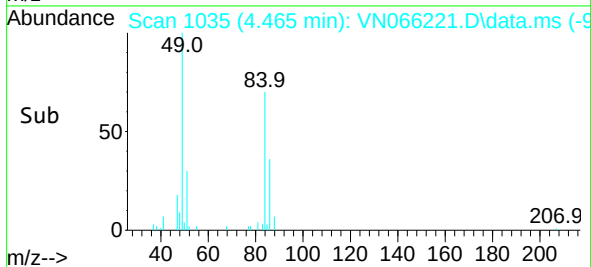
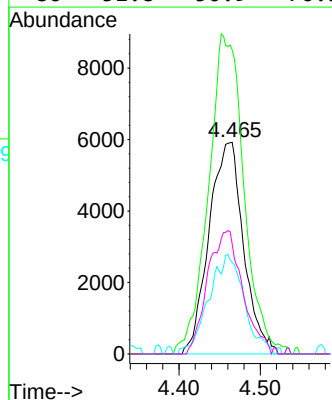
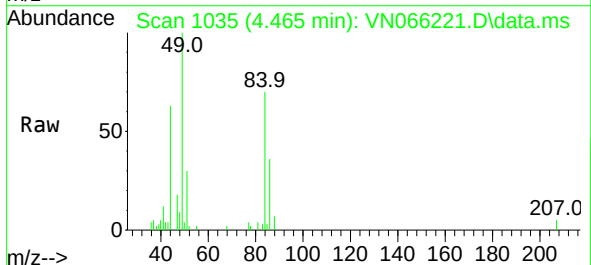


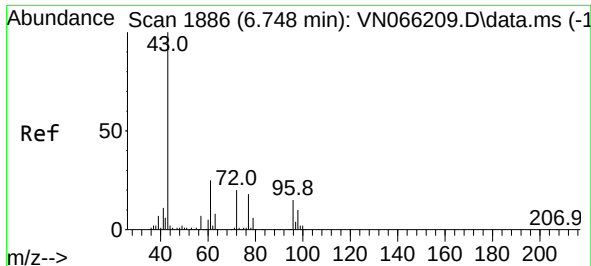
Tgt Ion: 43 Resp: 1334
Ion Ratio Lower Upper
43 100
74 40.0 14.2 21.2#



#20
Methylene Chloride
Concen: 6.20 ug/l
RT: 4.465 min Scan# 1035
Delta R.T. 0.010 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

Tgt Ion: 84 Resp: 17496
Ion Ratio Lower Upper
84 100
49 139.3 130.0 195.0
51 40.6 39.1 58.7
86 51.8 50.9 76.3

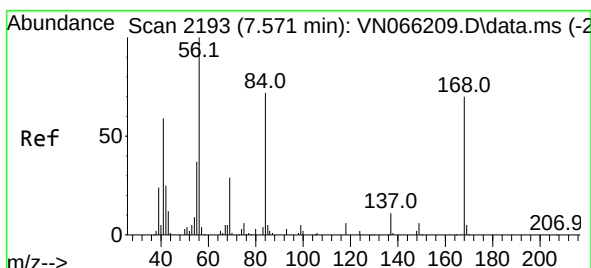
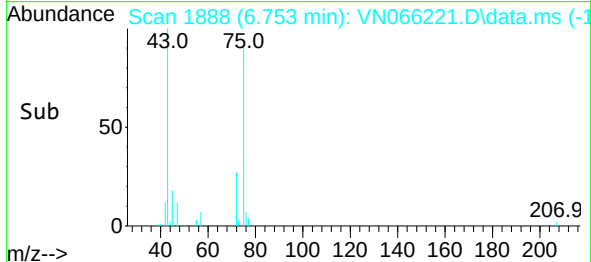
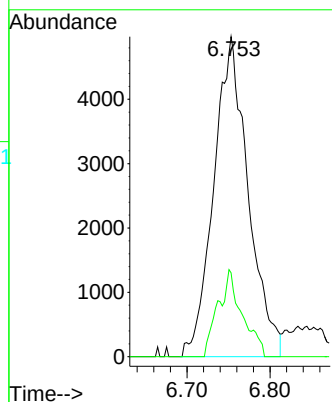
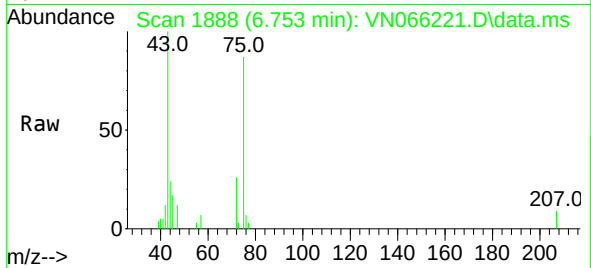




#25
2-Butanone
Concen: 5.12 ug/l
RT: 6.753 min Scan# 1888
Delta R.T. 0.005 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

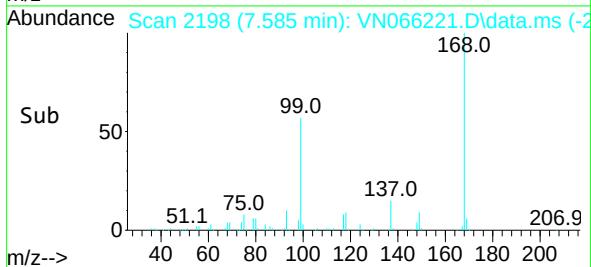
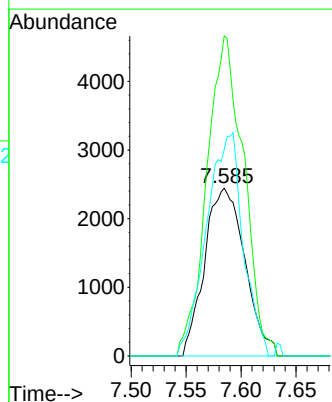
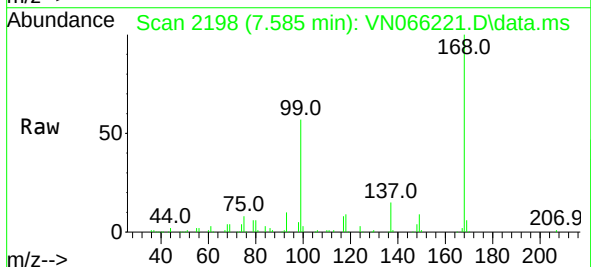
Instrument :
MSVOA_N
ClientSampled :

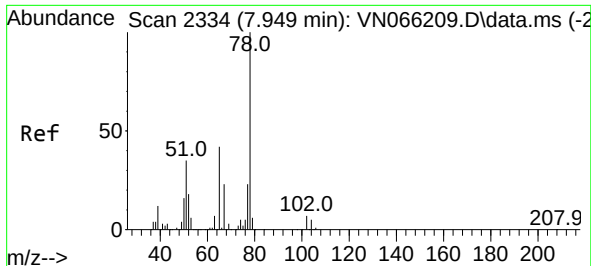
Tgt Ion: 43 Resp: 14354
Ion Ratio Lower Upper
43 100
72 26.2 16.2 24.2#



#31
Cyclohexane
Concen: 1.11 ug/l
RT: 7.585 min Scan# 2198
Delta R.T. 0.014 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

Tgt Ion: 56 Resp: 6232
Ion Ratio Lower Upper
56 100
69 190.8 23.4 35.0#
84 116.7 57.8 86.6#

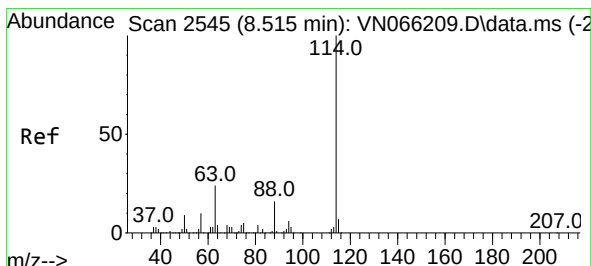
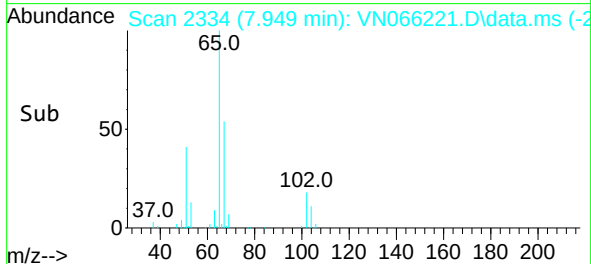
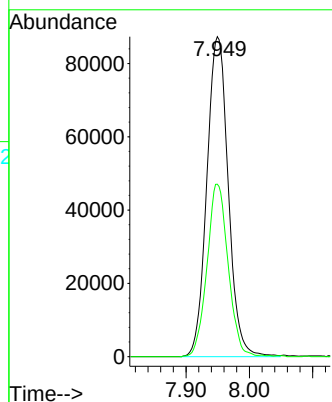
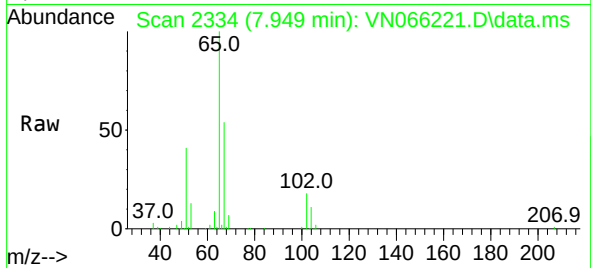




#33
1,2-Dichloroethane-d4
Concen: 54.57 ug/l
RT: 7.949 min Scan# 2334
Delta R.T. 0.000 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

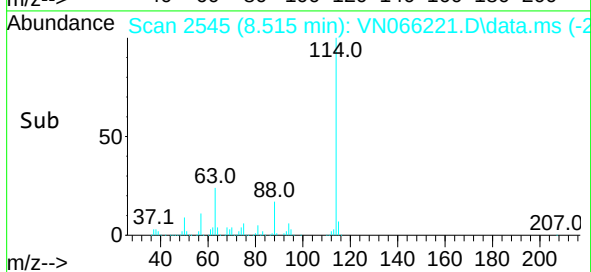
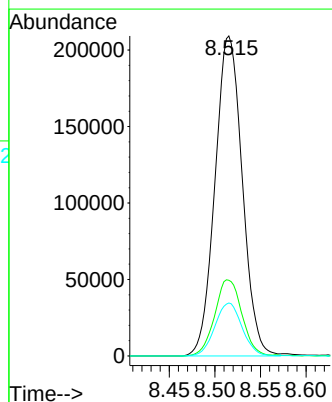
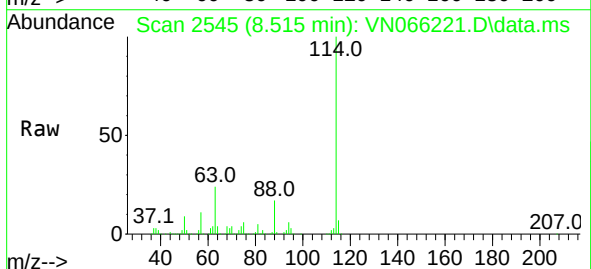
Instrument :
MSVOA_N
ClientSampleId :

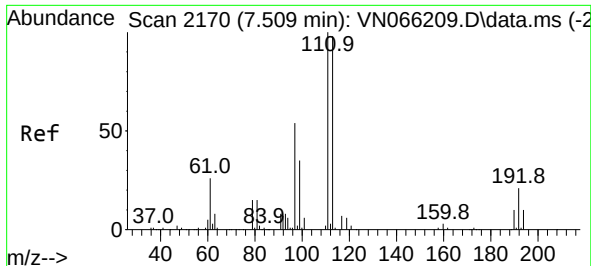
Tgt Ion: 65 Resp: 204975
Ion Ratio Lower Upper
65 100
67 53.1 0.0 107.2



#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.515 min Scan# 2545
Delta R.T. 0.000 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

Tgt Ion: 114 Resp: 435116
Ion Ratio Lower Upper
114 100
63 23.6 0.0 49.2
88 16.5 0.0 33.8

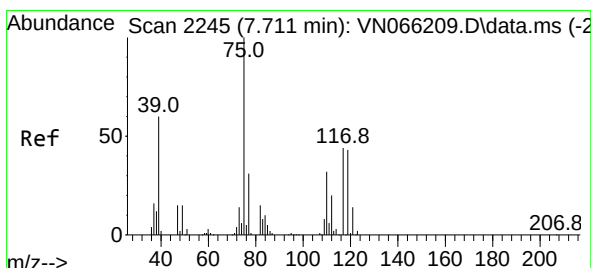
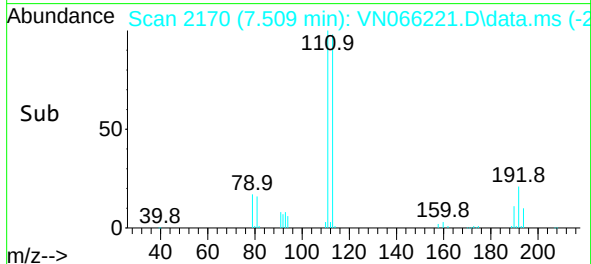
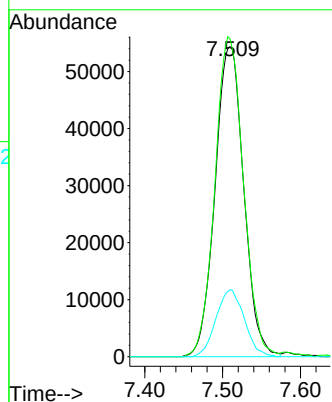
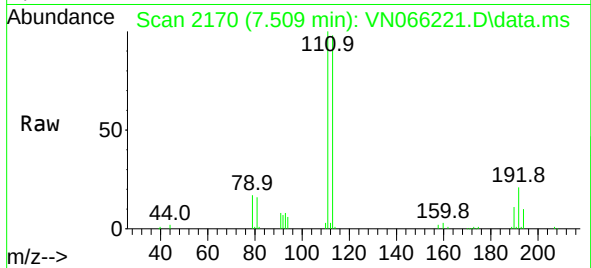




#35
Dibromofluoromethane
Concen: 50.08 ug/l
RT: 7.509 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

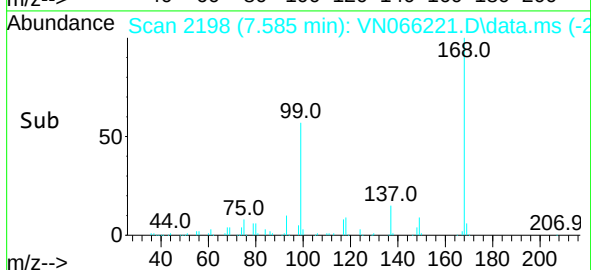
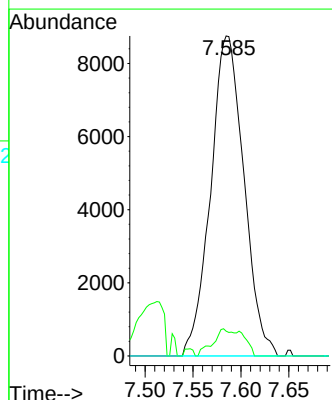
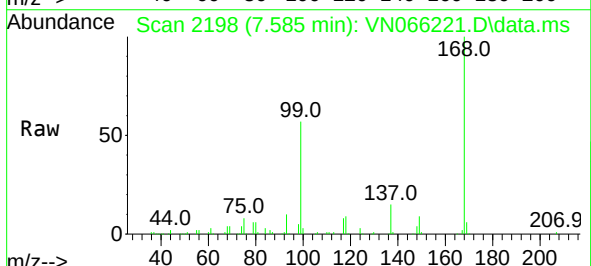
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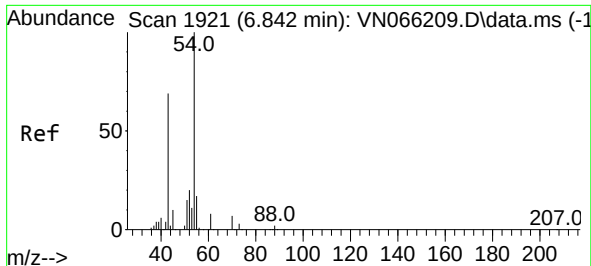
Tgt Ion:113 Resp: 139017
Ion Ratio Lower Upper
113 100
111 102.6 84.0 126.0
192 21.3 16.7 25.1



#36
1,1-Dichloropropene
Concen: 4.79 ug/l
RT: 7.585 min Scan# 2198
Delta R.T. -0.126 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

Tgt Ion: 75 Resp: 21107
Ion Ratio Lower Upper
75 100
110 5.0 16.0 48.0#
77 0.0 24.9 37.3#





#37

Ethyl Acetate

Concen: 2.28 ug/l

RT: 6.753 min Scan# 1888

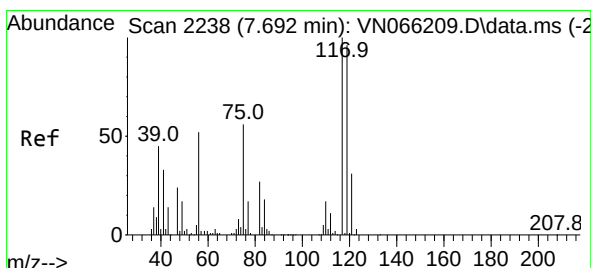
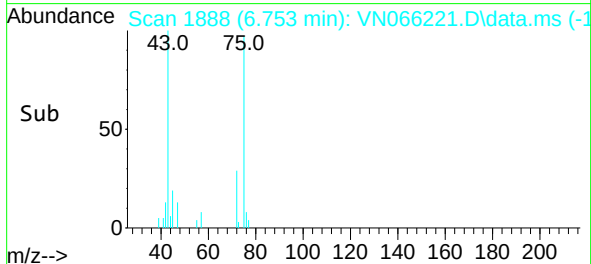
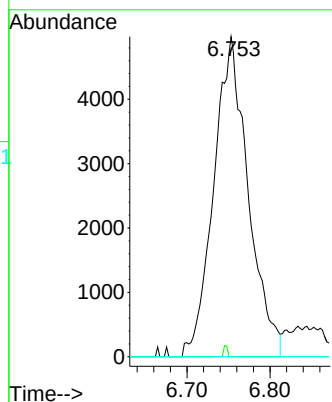
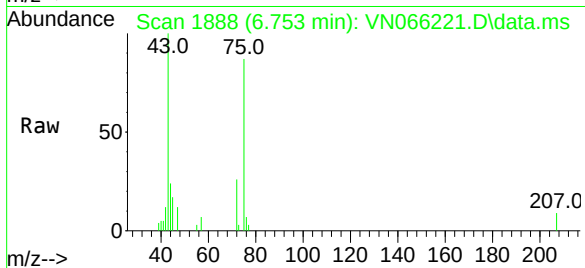
Delta R.T. -0.089 min

Lab File: VN066221.D

Acq: 16 Mar 2021 19:25

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 43	Resp: 14354
Ion Ratio	Lower Upper
43 100	
61 0.4	9.2 13.8#
70 0.0	6.1 9.1#



#38

Carbon Tetrachloride

Concen: 3.08 ug/l

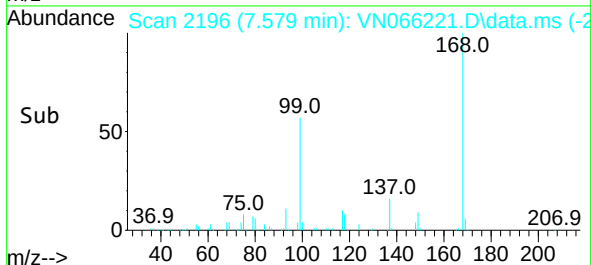
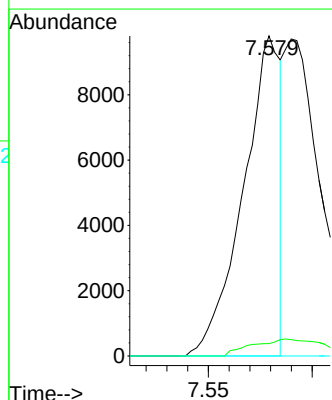
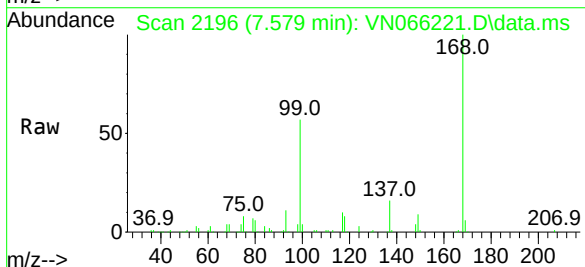
RT: 7.579 min Scan# 2196

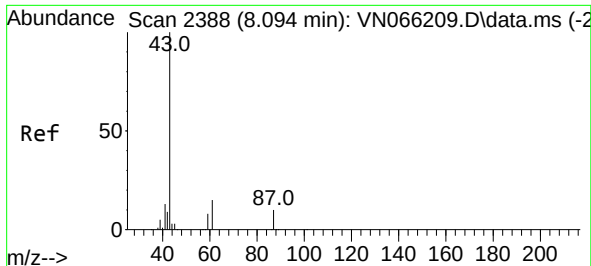
Delta R.T. -0.113 min

Lab File: VN066221.D

Acq: 16 Mar 2021 19:25

Tgt Ion: 117	Resp: 12149
Ion Ratio	Lower Upper
117 100	
119 3.8	74.6 111.8#
121 0.0	23.9 35.9#

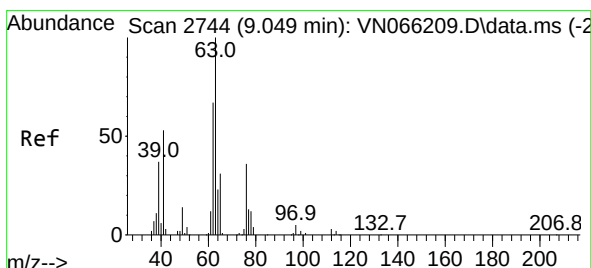
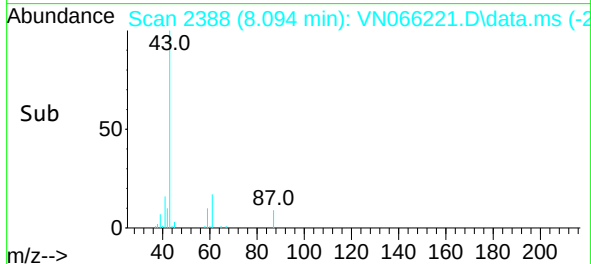
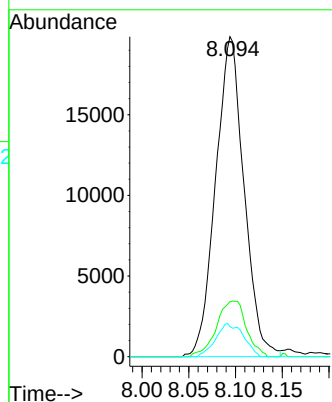
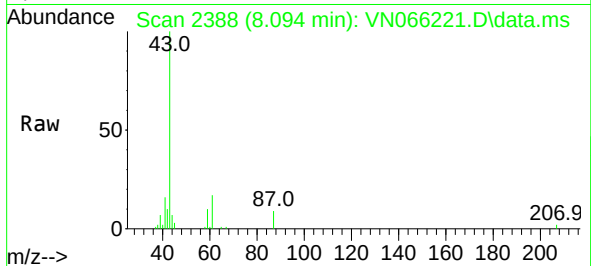




#43
Isopropyl Acetate
Concen: 4.30 ug/l
RT: 8.094 min Scan# 2388
Delta R.T. 0.000 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

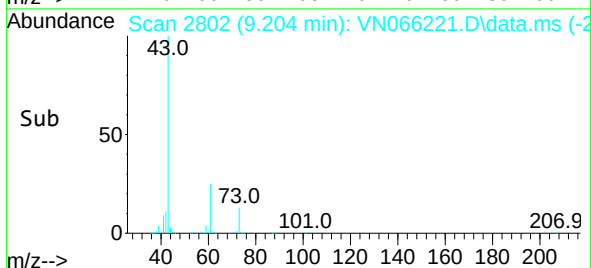
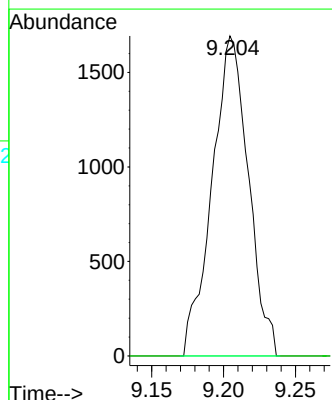
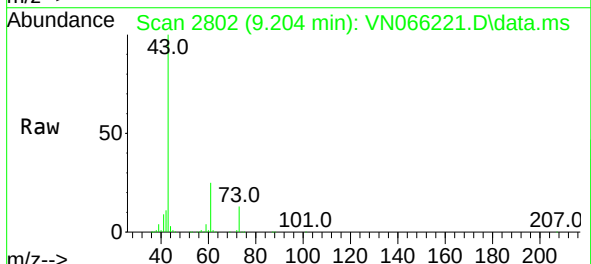
Instrument :
MSVOA_N
ClientSampled :

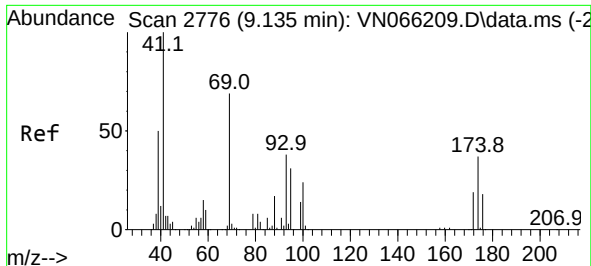
Tgt Ion: 43 Resp: 41906
Ion Ratio Lower Upper
43 100
61 18.3 14.0 21.0
87 10.1 7.9 11.9



#45
1,2-Dichloropropane
Concen: 0.78 ug/l
RT: 9.204 min Scan# 2802
Delta R.T. 0.155 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

Tgt Ion: 63 Resp: 2976
Ion Ratio Lower Upper
63 100
65 0.0 24.6 37.0#

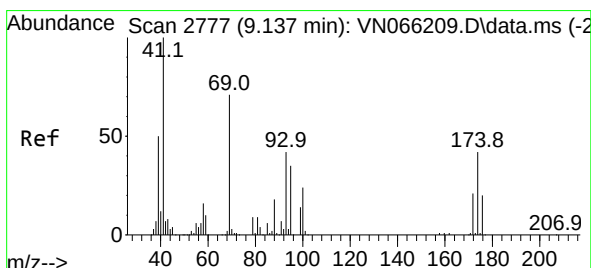
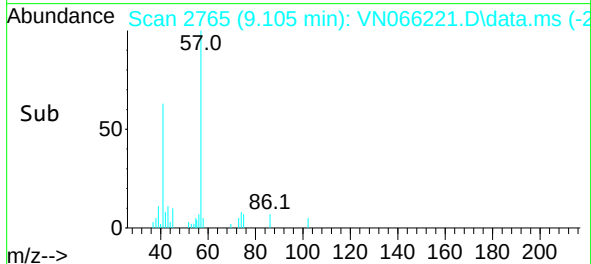
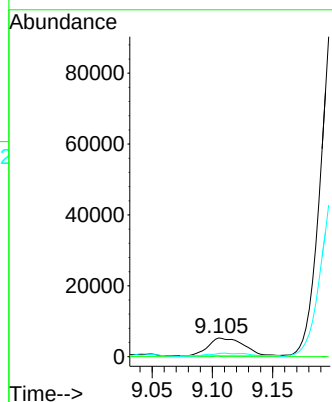
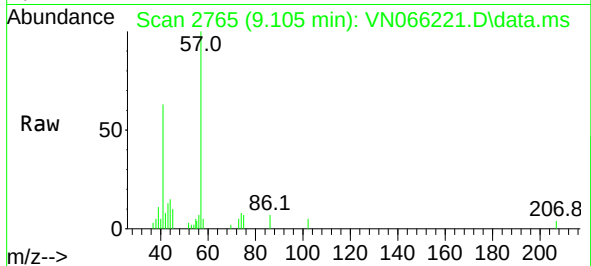




#48
Methyl methacrylate
Concen: 2.21 ug/l
RT: 9.105 min Scan# 2765
Delta R.T. -0.030 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

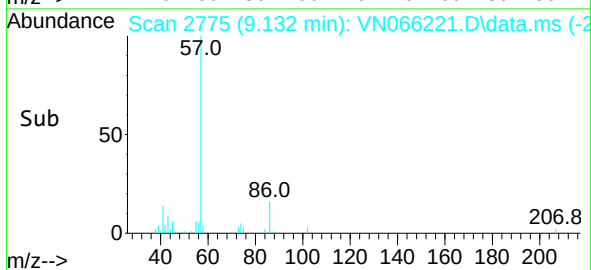
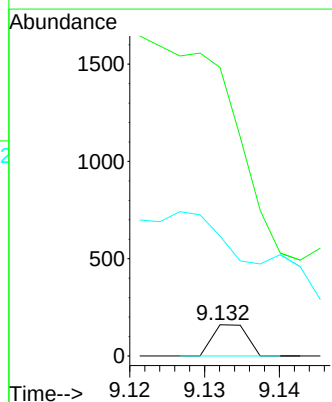
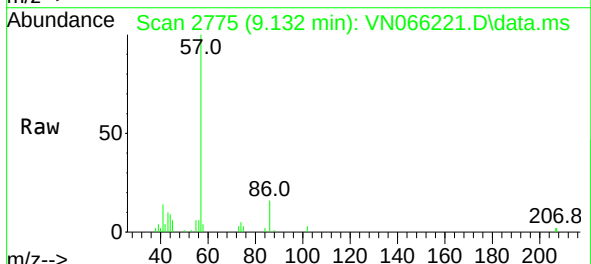
Instrument :
MSVOA_N
ClientSampled :

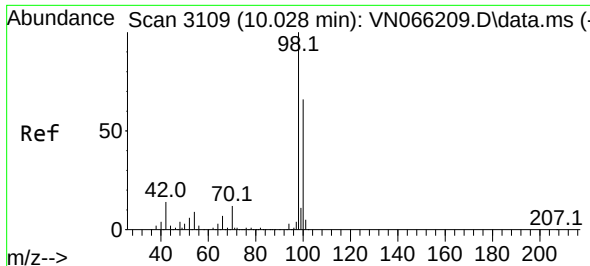
Tgt Ion: 41 Resp: 10180
Ion Ratio Lower Upper
41 100
69 0.5 54.7 82.1#
39 0.0 40.2 60.2#



#49
1,4-Dioxane
Concen: 1.02 ug/l
RT: 9.132 min Scan# 2775
Delta R.T. -0.005 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

Tgt Ion: 88 Resp: 51
Ion Ratio Lower Upper
88 100
43 0.0 34.4 51.6#
58 2180.4 67.3 100.9#

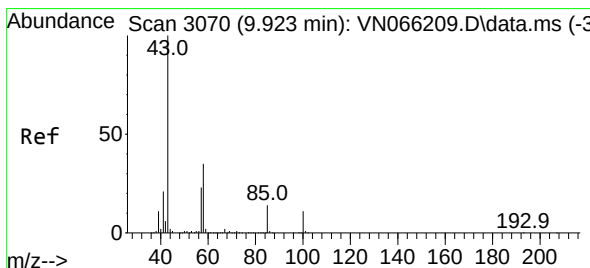
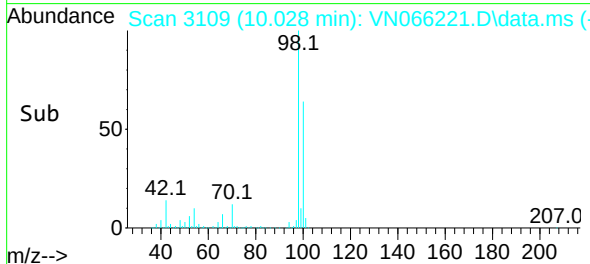
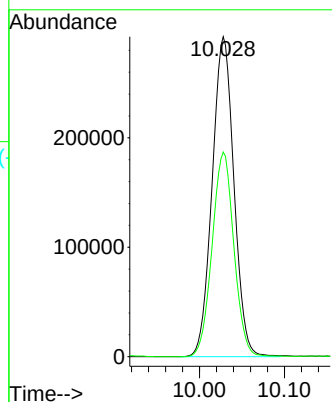
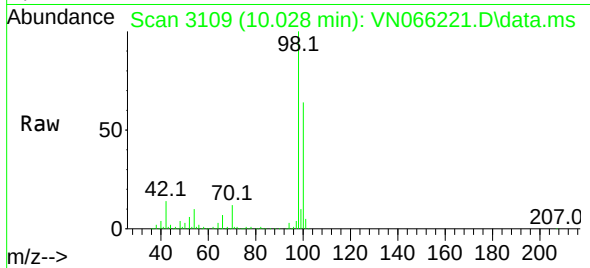




#50
Toluene-d8
Concen: 48.47 ug/l
RT: 10.028 min Scan# 3109
Delta R.T. -0.000 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

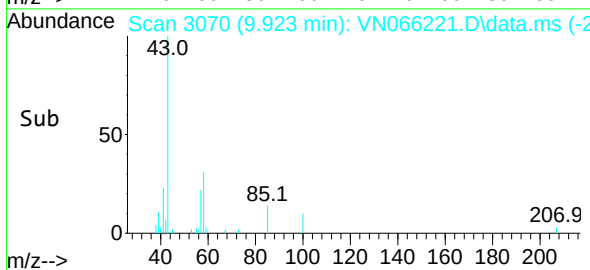
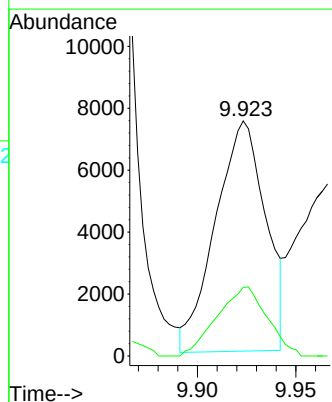
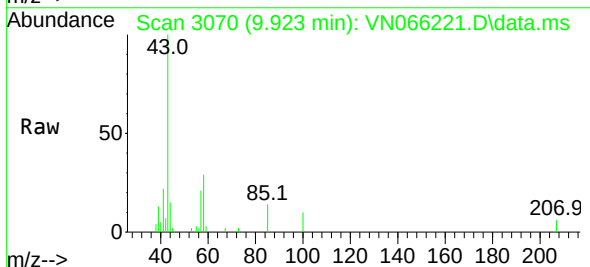
Instrument :
MSVOA_N
ClientSampled :

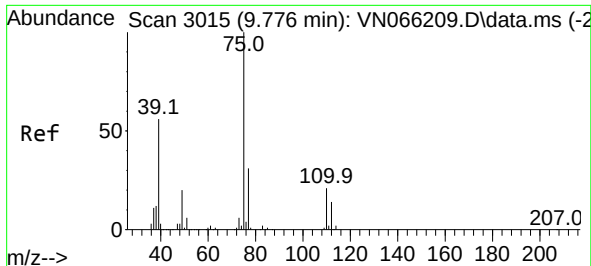
Tgt Ion: 98 Resp: 520261
Ion Ratio Lower Upper
98 100
100 64.0 51.0 76.6



#51
4-Methyl-2-Pentanone
Concen: 2.24 ug/l
RT: 9.923 min Scan# 3070
Delta R.T. 0.000 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

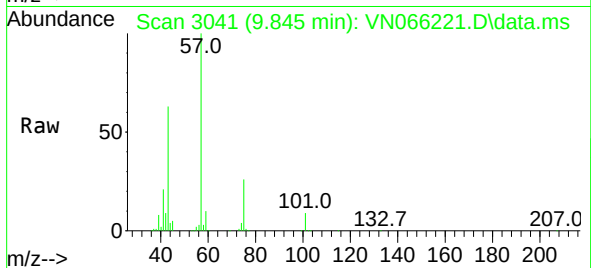
Tgt Ion: 43 Resp: 13170
Ion Ratio Lower Upper
43 100
58 30.0 27.5 41.3



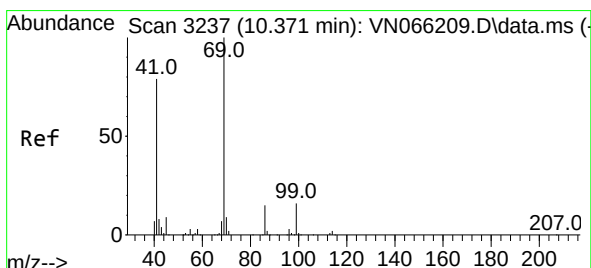
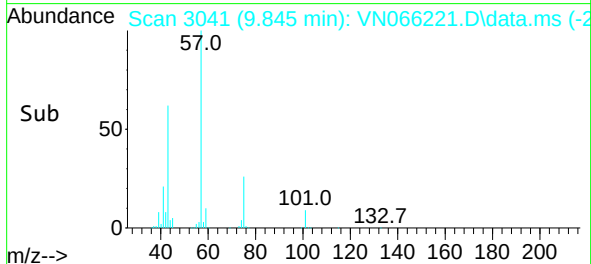
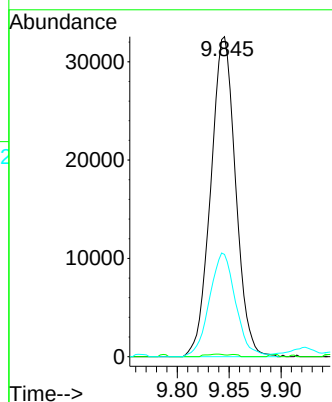


#54
cis-1,3-Dichloropropene
Concen: 9.47 ug/l
RT: 9.845 min Scan# 3041
Delta R.T. 0.069 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

Instrument :
MSVOA_N
ClientSampled :

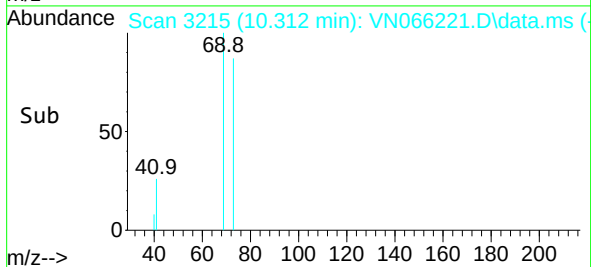
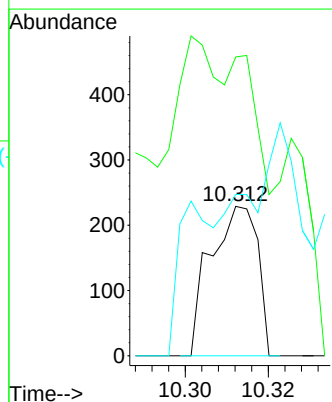
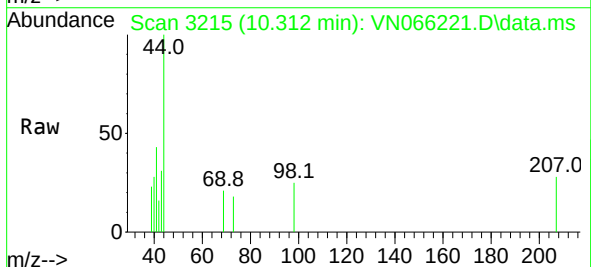


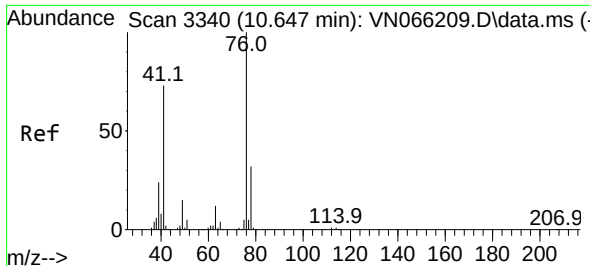
Tgt Ion: 75 Resp: 54109
Ion Ratio Lower Upper
75 100
77 0.5 25.0 37.4#
39 31.9 46.2 69.2#



#56
Ethyl methacrylate
Concen: 2.19 ug/l
RT: 10.312 min Scan# 3215
Delta R.T. -0.059 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

Tgt Ion: 69 Resp: 180
Ion Ratio Lower Upper
69 100
41 0.0 66.2 99.4#
39 0.0 31.5 47.3#

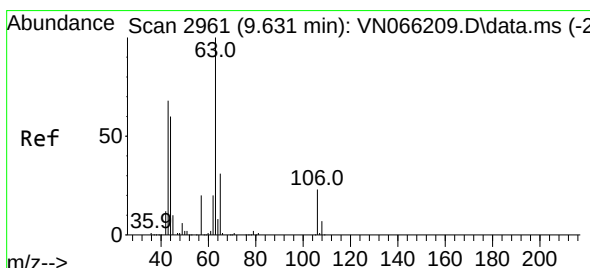
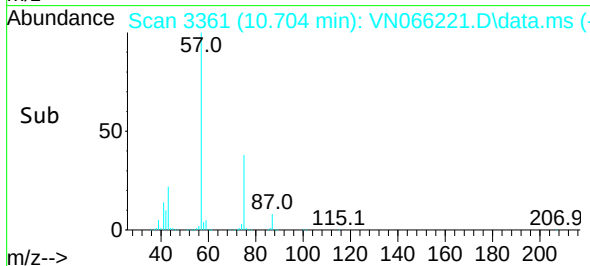
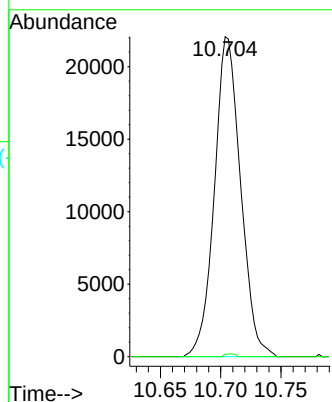
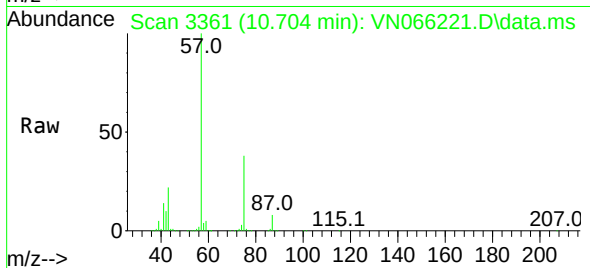




#57
1,3-Dichloropropane
Concen: 5.88 ug/l
RT: 10.704 min Scan# 3361
Delta R.T. 0.057 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

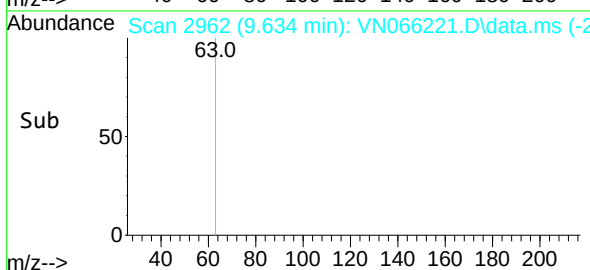
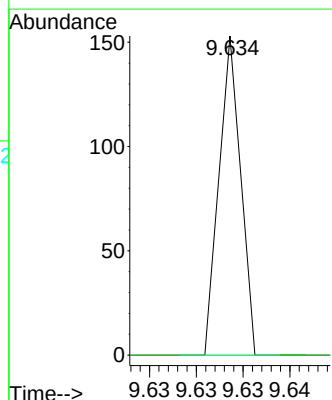
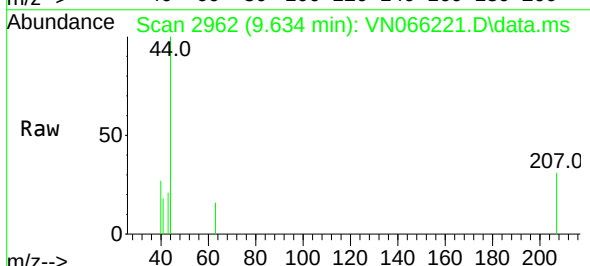
Instrument :
MSVOA_N
ClientSampled :

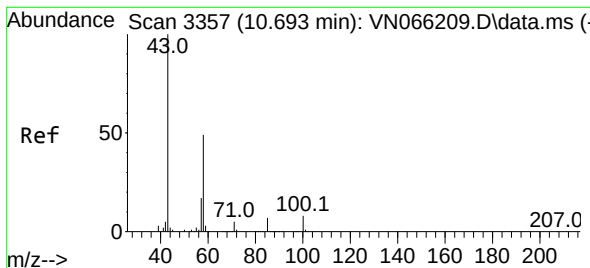
Tgt Ion: 76 Resp: 33312
Ion Ratio Lower Upper
76 100
78 0.3 25.4 38.2#



#58
2-Chloroethyl Vinyl ether
Concen: 46.33 ug/l
RT: 9.634 min Scan# 2962
Delta R.T. 0.003 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

Tgt Ion: 63 Resp: 25
Ion Ratio Lower Upper
63 100
106 0.0 17.6 26.4#

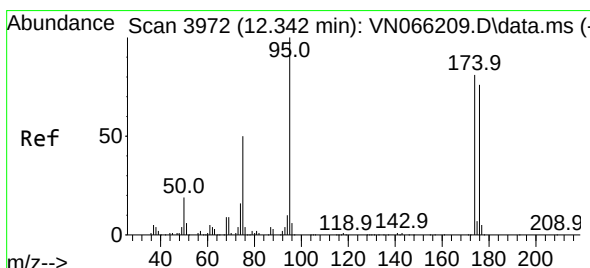
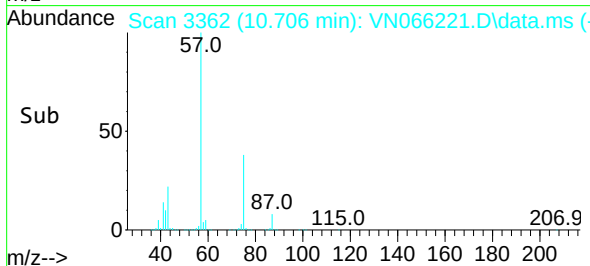
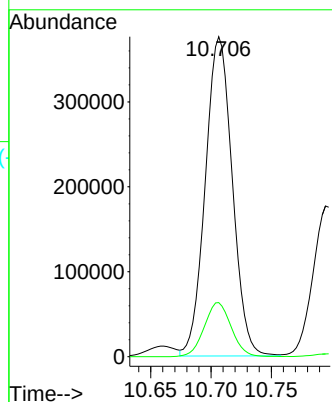
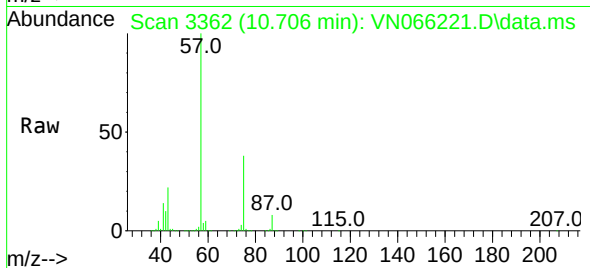




#59
2-Hexanone
Concen: 127.84 ug/l
RT: 10.706 min Scan# 3362
Delta R.T. 0.013 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

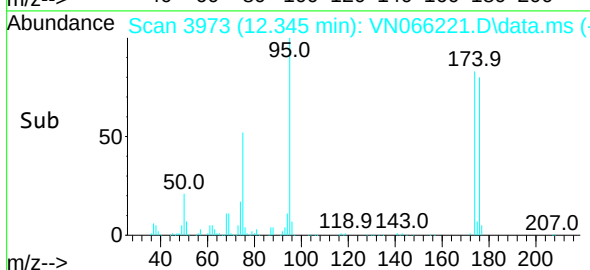
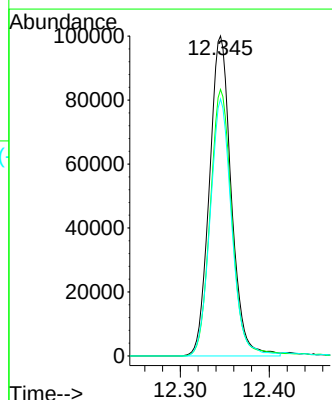
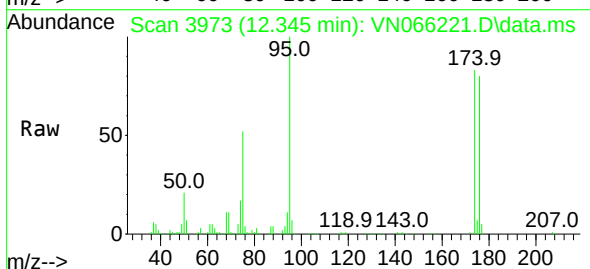
Instrument :
MSVOA_N
ClientSampleId :

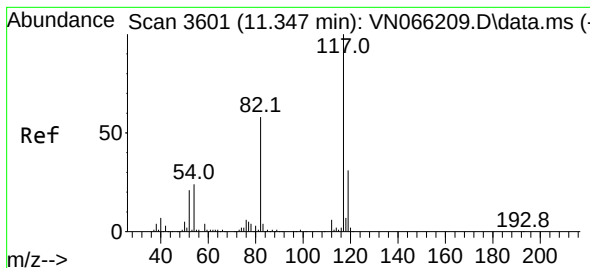
Tgt Ion: 43 Resp: 585256
Ion Ratio Lower Upper
43 100
58 17.0 23.8 71.5#



#62
4-Bromofluorobenzene
Concen: 44.08 ug/l
RT: 12.345 min Scan# 3973
Delta R.T. 0.003 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

Tgt Ion: 95 Resp: 170517
Ion Ratio Lower Upper
95 100
174 83.1 0.0 162.4
176 79.0 0.0 156.2

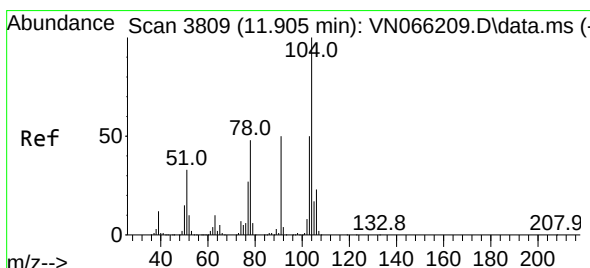
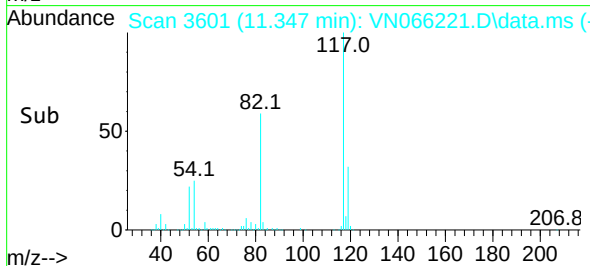
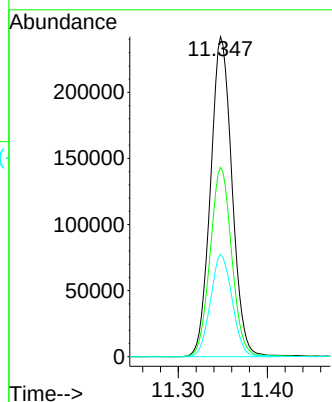
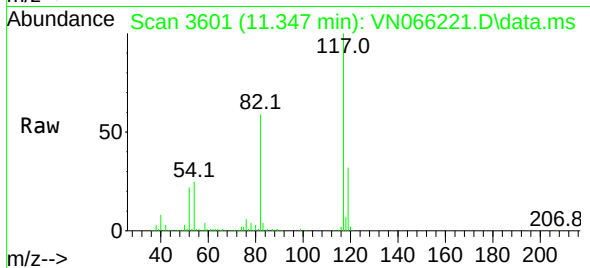




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.347 min Scan# 3601
Delta R.T. 0.000 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

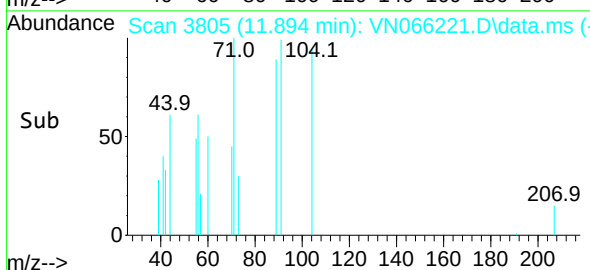
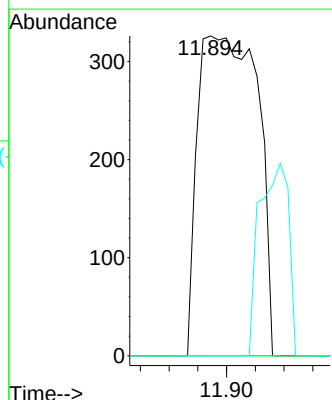
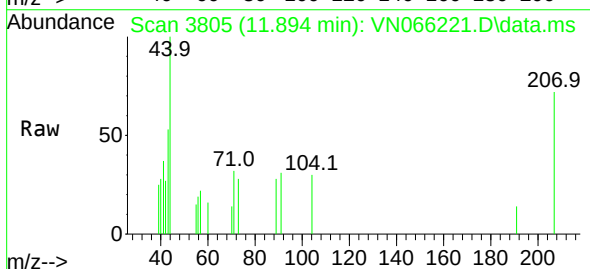
Instrument :
MSVOA_N
ClientSampled :

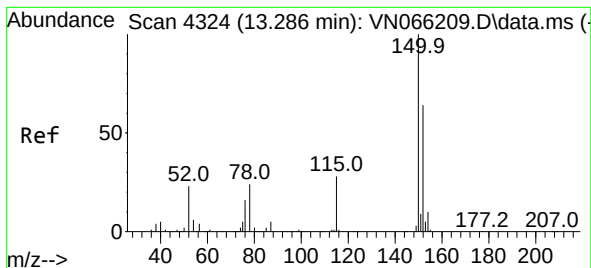
Tgt Ion:117 Resp: 406294
Ion Ratio Lower Upper
117 100
82 59.2 49.0 73.6
119 32.0 25.7 38.5



#70
Styrene
Concen: 2.20 ug/l
RT: 11.894 min Scan# 3805
Delta R.T. -0.011 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

Tgt Ion:104 Resp: 470
Ion Ratio Lower Upper
104 100
78 0.0 43.8 65.6#
103 0.0 43.7 65.5#

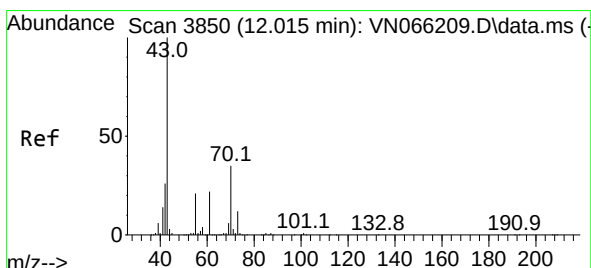
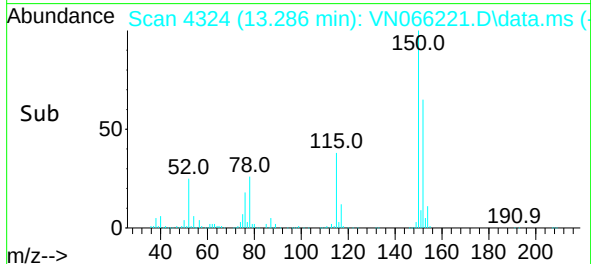
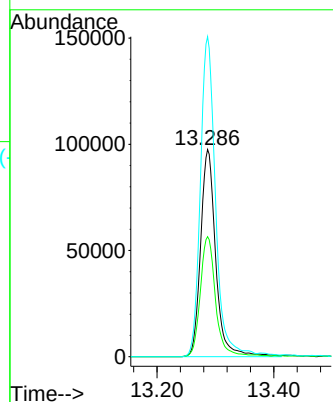
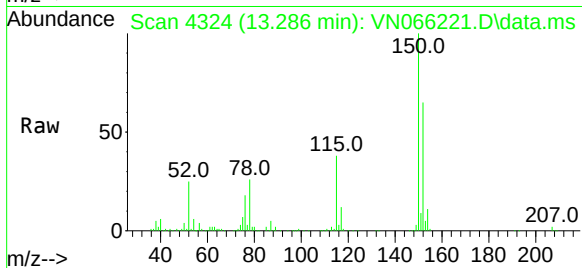




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.286 min Scan# 4324
Delta R.T. 0.000 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

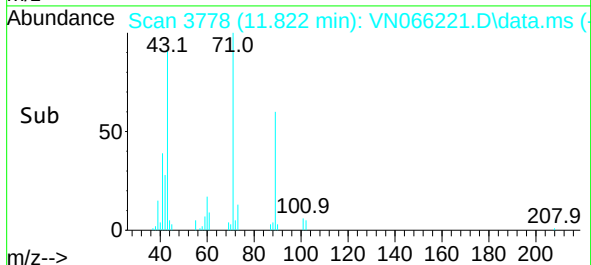
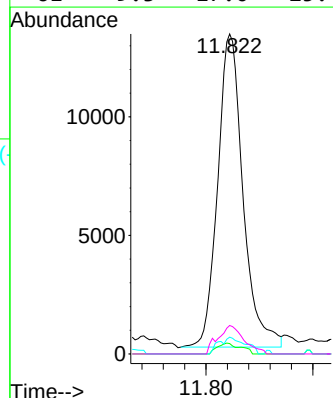
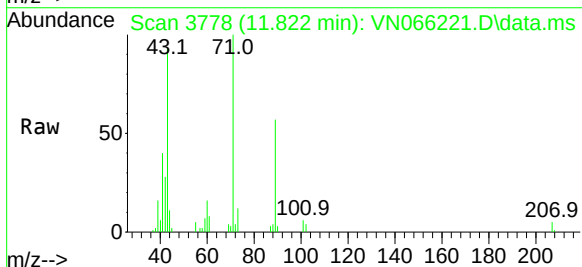
Instrument :
MSVOA_N
ClientSampleId :

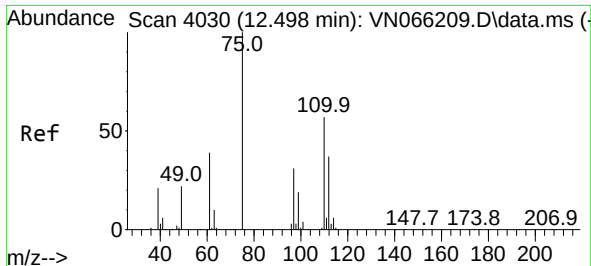
Tgt Ion:152 Resp: 175805
Ion Ratio Lower Upper
152 100
115 58.0 29.4 88.3
150 153.9 0.0 352.2



#74
N-ethyl acetate
Concen: 5.20 ug/l
RT: 11.822 min Scan# 3778
Delta R.T. -0.193 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

Tgt Ion: 43 Resp: 21718
Ion Ratio Lower Upper
43 100
70 3.2 26.2 39.4#
55 5.6 17.2 25.8#
61 9.3 17.0 25.4#

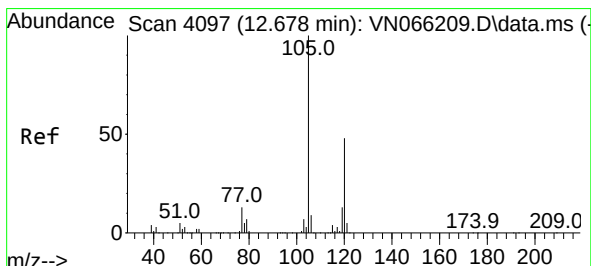
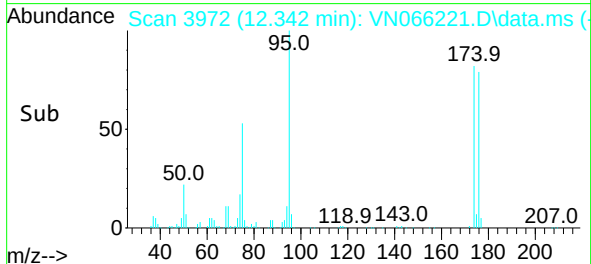
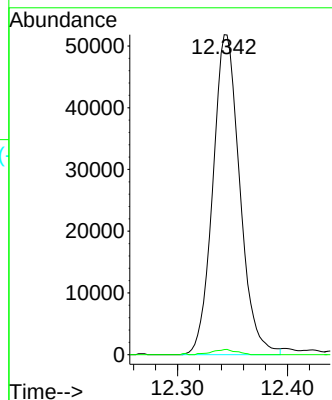
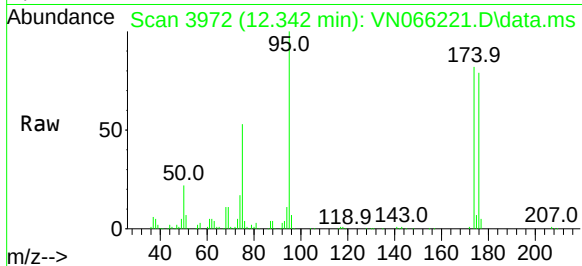




#76
1,2,3-Trichloropropane
Concen: 19.45 ug/l
RT: 12.342 min Scan# 3972
Delta R.T. -0.156 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

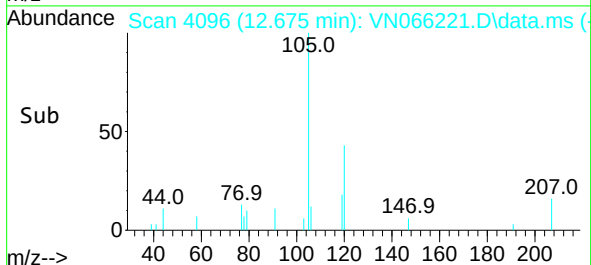
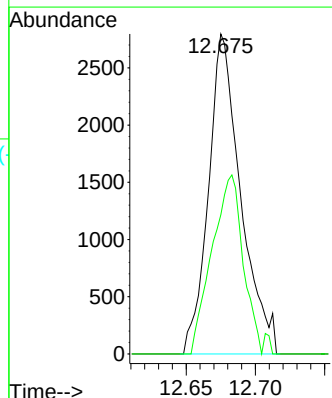
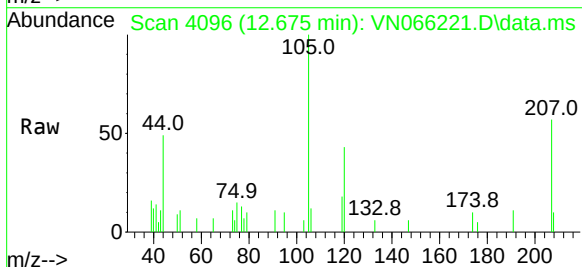
Instrument :
MSVOA_N
ClientSampled :

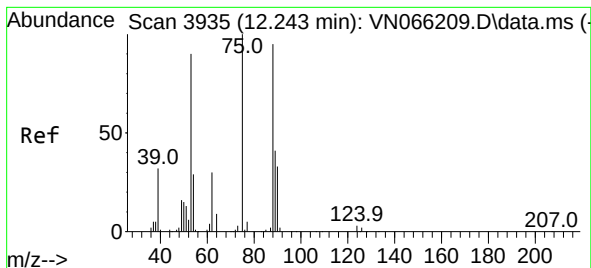
Tgt Ion: 75 Resp: 88288
Ion Ratio Lower Upper
75 100
77 1.5 0.0 0.0#



#80
1,3,5-Trimethylbenzene
Concen: 0.44 ug/l
RT: 12.675 min Scan# 4096
Delta R.T. -0.003 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

Tgt Ion: 105 Resp: 4527
Ion Ratio Lower Upper
105 100
120 53.9 23.9 71.8

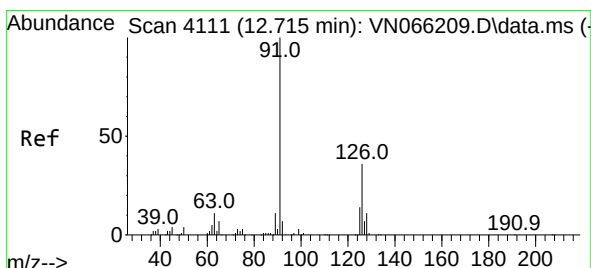
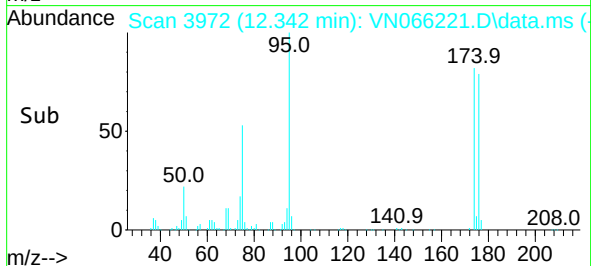
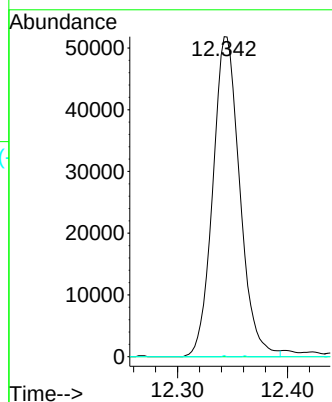
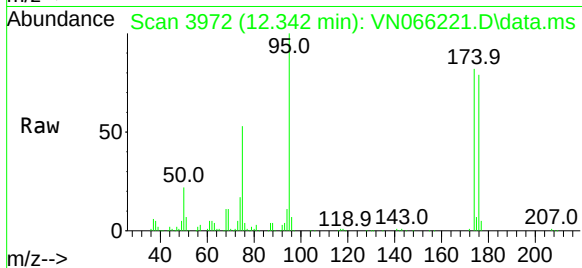




#81
trans-1,4-Dichloro-2-butene
Concen: 58.19 ug/l
RT: 12.342 min Scan# 3972
Delta R.T. 0.099 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

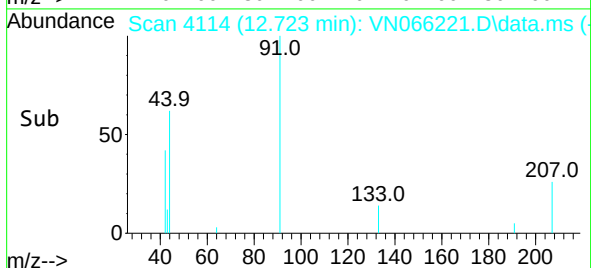
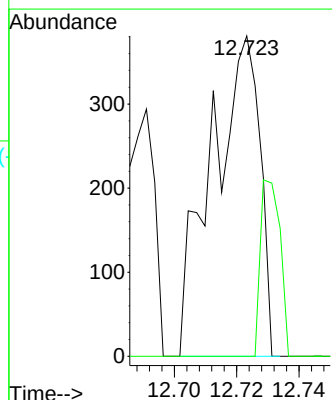
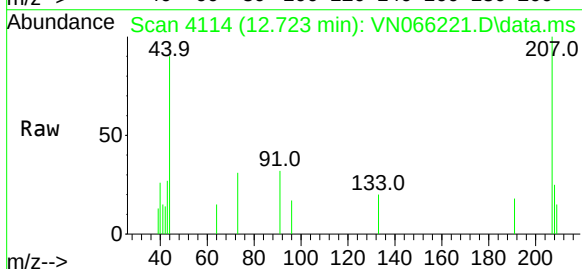
Instrument :
MSVOA_N
ClientSampleId :

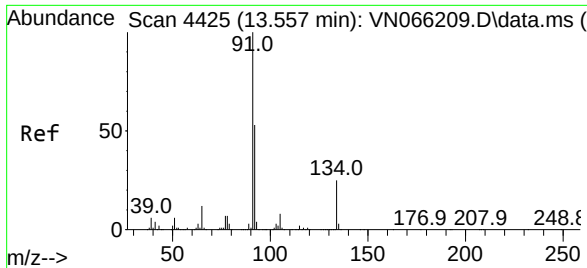
Tgt Ion: 75 Resp: 88288
Ion Ratio Lower Upper
75 100
53 0.0 77.8 116.6#
89 0.0 33.7 50.5#



#82
4-Chlorotoluene
Concen: 0.51 ug/l
RT: 12.723 min Scan# 4114
Delta R.T. 0.008 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

Tgt Ion: 91 Resp: 409
Ion Ratio Lower Upper
91 100
126 22.2 15.7 47.1

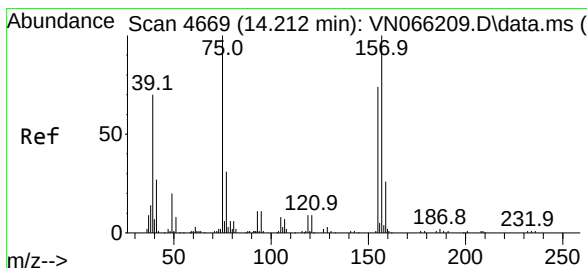
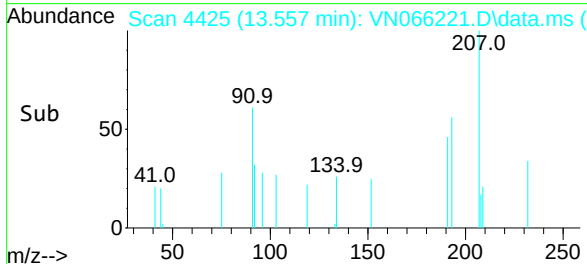
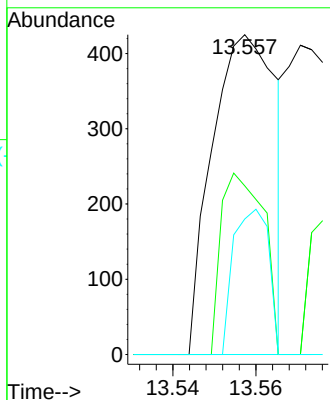
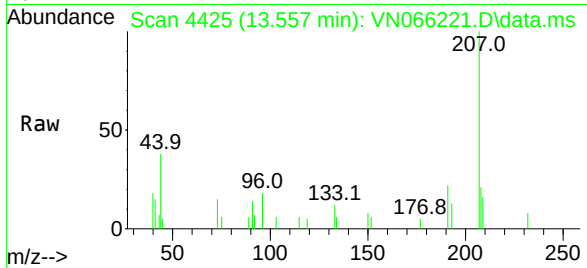




#89
n-Butylbenzene
Concen: 2.28 ug/l
RT: 13.557 min Scan# 4425
Delta R.T. 0.000 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

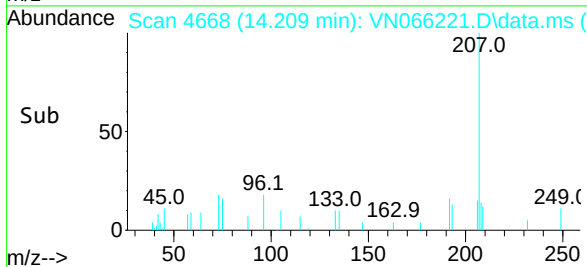
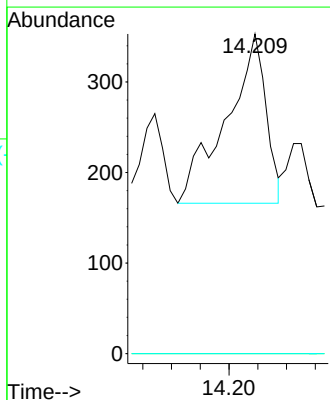
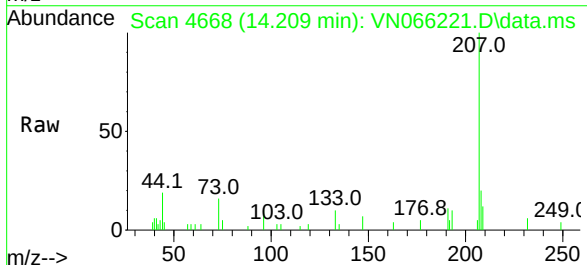
Instrument :
MSVOA_N
ClientSampled :

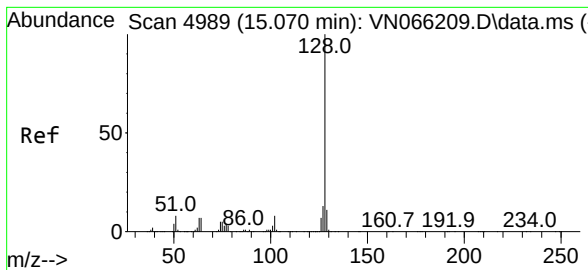
Tgt Ion: 91 Resp: 449
Ion Ratio Lower Upper
91 100
92 38.1 25.7 77.0
134 25.2 11.8 35.4



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.02 ug/l
RT: 14.209 min Scan# 4668
Delta R.T. -0.003 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

Tgt Ion: 75 Resp: 180
Ion Ratio Lower Upper
75 100
155 0.0 36.5 109.7#
157 0.0 46.3 138.8#





#95
Naphthalene
Concen: 0.27 ug/l
RT: 15.075 min Scan# 4991
Delta R.T. 0.005 min
Lab File: VN066221.D
Acq: 16 Mar 2021 19:25

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:	128	Resp:	2744
Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.3	15.5
129	9.4	8.4	12.6

