

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050421\
 Data File : VN066934.D
 Acq On : 4 May 2021 13:54
 Operator : JC/MD
 Sample : VN0504WBL01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 05 05:22:38 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N050421W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 04 13:11:03 2021
 Response via : Initial Calibration

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

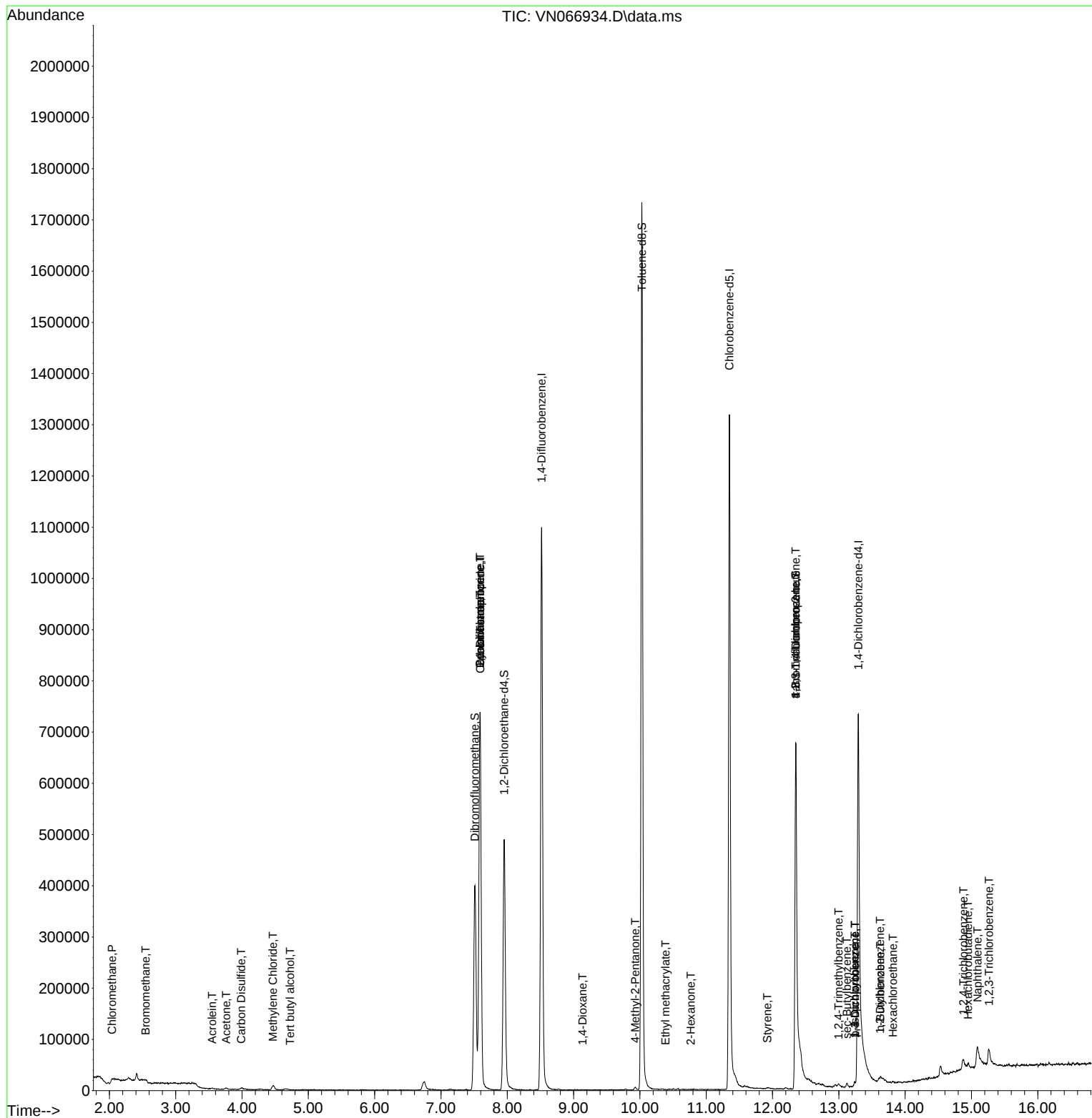
Internal Standards						
1) Pentafluorobenzene	7.589	168	578644	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.517	114	962047	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.349	117	799300	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.294	152	304975	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.954	65	438102	48.10	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	96.20%		
35) Dibromofluoromethane	7.512	113	316959	48.52	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	97.04%		
50) Toluene-d8	10.030	98	1203555	48.38	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	96.76%		
62) 4-Bromofluorobenzene	12.350	95	352669	41.87	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	83.74%		
Target Compounds					Qvalue	
3) Chloromethane	2.038	50	2589	0.23	ug/l	94
5) Bromomethane	2.547	94	1701	0.30	ug/l #	75
11) Tert butyl alcohol	4.725	59	300	0.23	ug/l #	73
13) Acrolein	3.548	56	1599	1.49	ug/l #	25
16) Acetone	3.762	43	1242	0.39	ug/l #	73
17) Carbon Disulfide	3.987	76	4325	0.22	ug/l #	80
20) Methylene Chloride	4.468	84	3030	0.37	ug/l #	83
31) Cyclohexane	7.589	56	13076	1.02	ug/l #	1
36) 1,1-Dichloropropene	7.589	75	48880	4.88	ug/l #	49
38) Carbon Tetrachloride	7.592	117	61411	5.88	ug/l #	17
49) 1,4-Dioxane	9.137	88	184	1.58	ug/l #	26
51) 4-Methyl-2-Pentanone	9.931	43	4989	0.52	ug/l #	86
56) Ethyl methacrylate	10.387	69	134	5.20	ug/l #	70
59) 2-Hexanone	10.767	43	116	28.38	ug/l	79
70) Styrene	11.923	104	212	4.72	ug/l #	1
76) 1,2,3-Trichloropropane	12.350	75	191407	26.35	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.350	75	191407	78.98	ug/l #	12
84) 1,2,4-Trimethylbenzene	12.994	105	4325	0.22	ug/l	92
85) sec-Butylbenzene	13.120	105	5463	0.24	ug/l	99
86) p-Isopropyltoluene	13.240	119	4766	0.25	ug/l	89
87) 1,3-Dichlorobenzene	13.243	146	2339	0.24	ug/l	87
88) 1,4-Dichlorobenzene	13.243	146	2339	0.24	ug/l	85
89) n-Butylbenzene	13.626	91	9696	5.74	ug/l #	41
90) Hexachloroethane	13.817	117	1212	0.28	ug/l #	25
91) 1,2-Dichlorobenzene	13.621	146	2320	0.24	ug/l #	73
93) 1,2,4-Trichlorobenzene	14.879	180	8273	1.61	ug/l	91
94) Hexachlorobutadiene	14.949	225	1384	0.44	ug/l	80
95) Naphthalene	15.091	128	66361	4.95	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.265	180	15118	3.04	ug/l	93

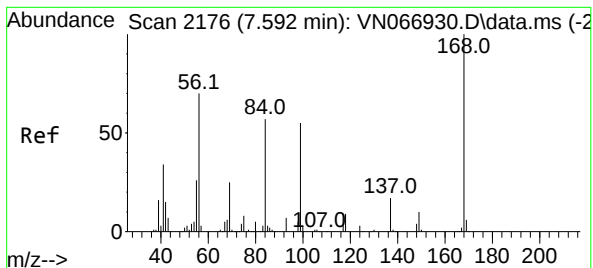
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue May 04 13:11:03 2021
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.589 min Scan# 2175

Delta R.T. -0.003 min

Lab File: VN066934.D

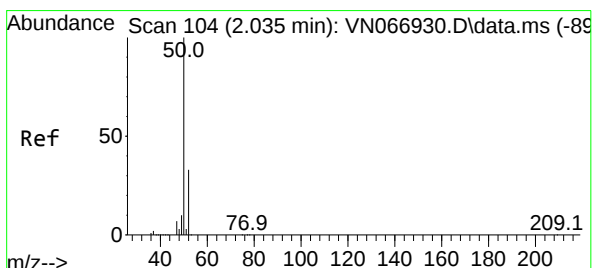
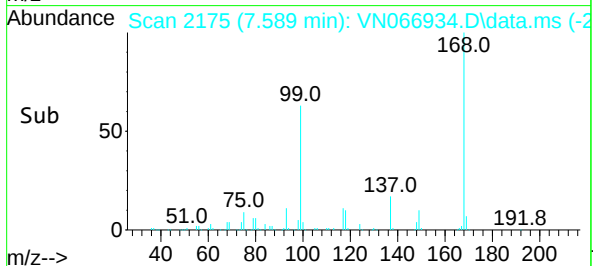
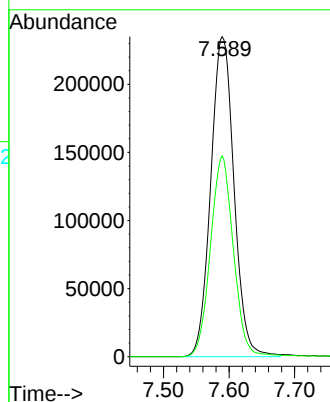
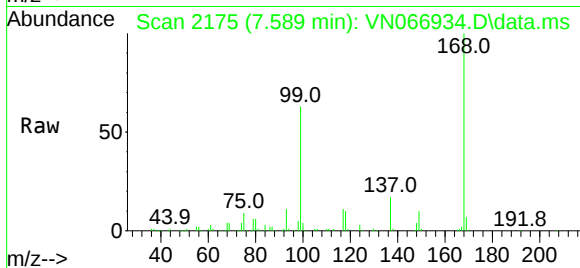
Acq: 4 May 2021 13:54

Tgt Ion:168 Resp: 578644

Ion Ratio Lower Upper

168 100

99 62.8 42.6 63.8



#3

Chloromethane

Concen: 0.23 ug/l

RT: 2.038 min Scan# 105

Delta R.T. 0.003 min

Lab File: VN066934.D

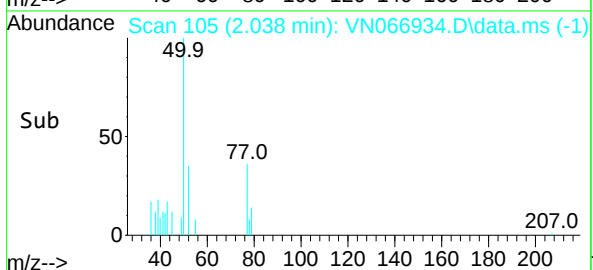
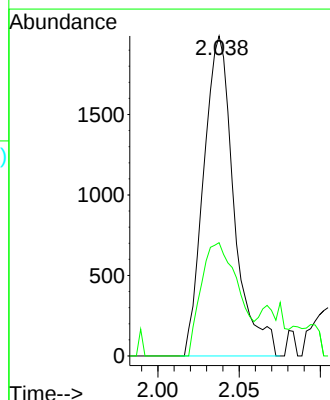
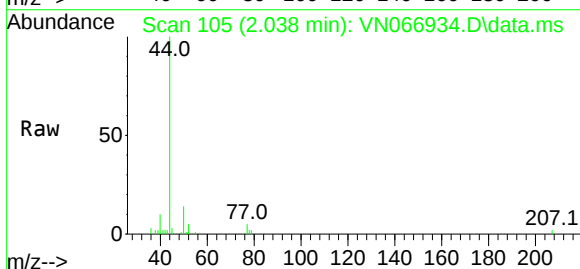
Acq: 4 May 2021 13:54

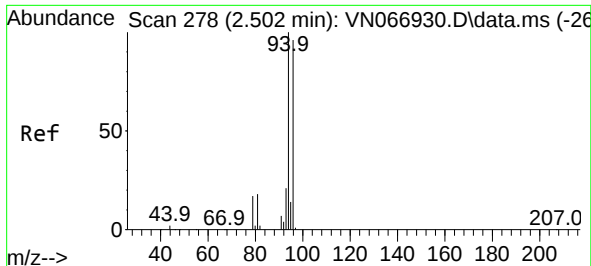
Tgt Ion: 50 Resp: 2589

Ion Ratio Lower Upper

50 100

52 35.4 25.8 38.8

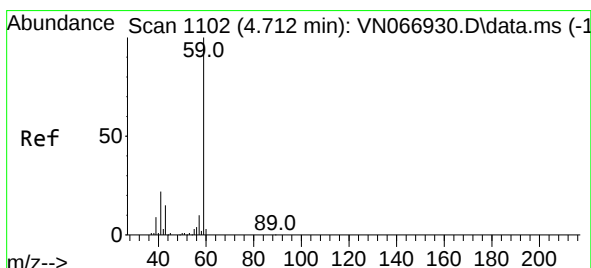
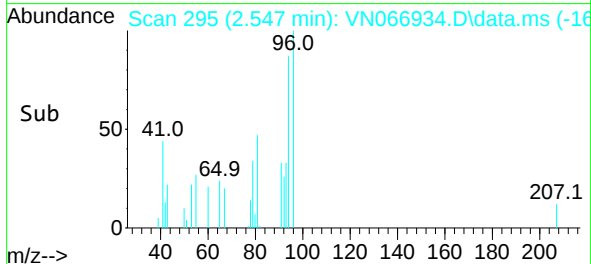
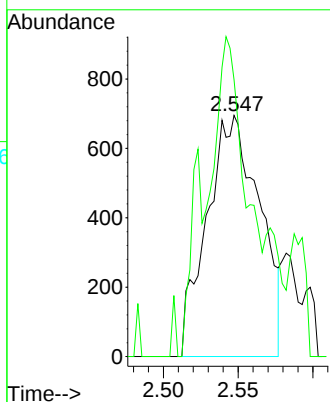
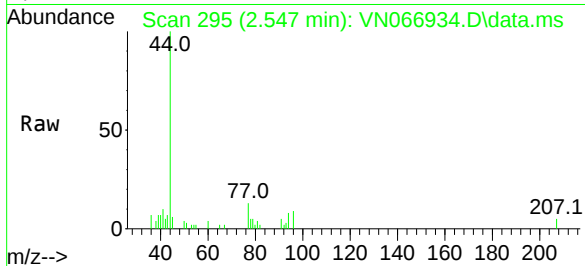




#5
Bromomethane
Concen: 0.30 ug/l
RT: 2.547 min Scan# 295
Delta R.T. 0.045 min
Lab File: VN066934.D
Acq: 4 May 2021 13:54

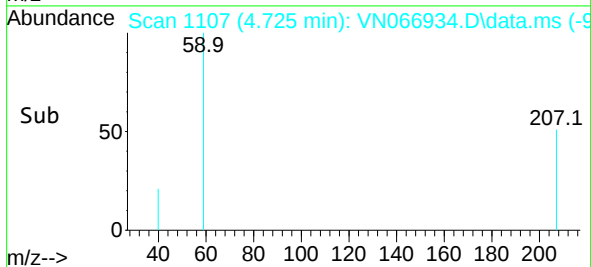
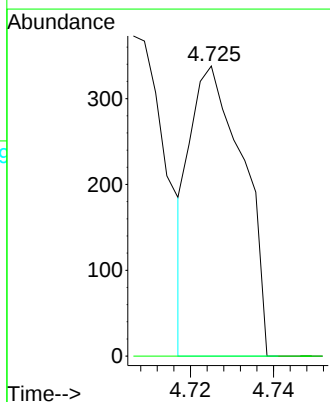
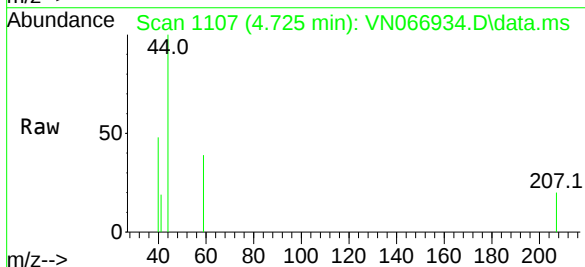
Instrument :
MSVOA_N
ClientSampled :

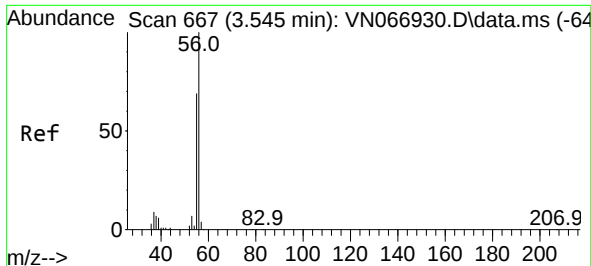
Tgt Ion: 94 Resp: 1701
Ion Ratio Lower Upper
94 100
96 114.8 73.0 109.4#



#11
Tert butyl alcohol
Concen: 0.23 ug/l
RT: 4.725 min Scan# 1107
Delta R.T. 0.013 min
Lab File: VN066934.D
Acq: 4 May 2021 13:54

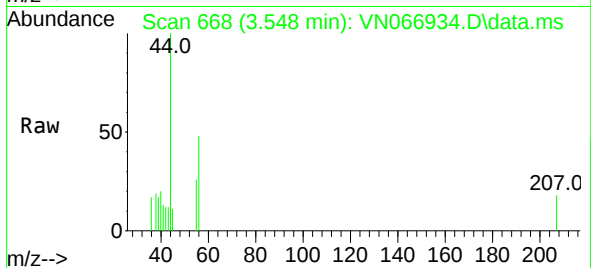
Tgt Ion: 59 Resp: 300
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#



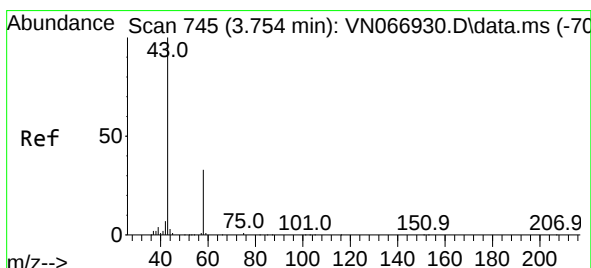
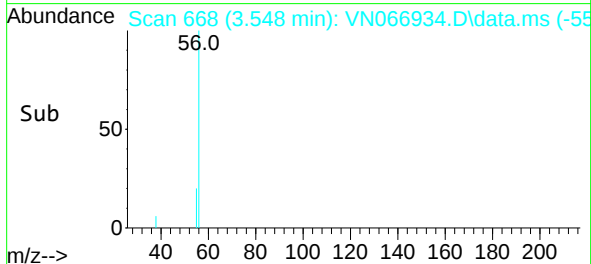
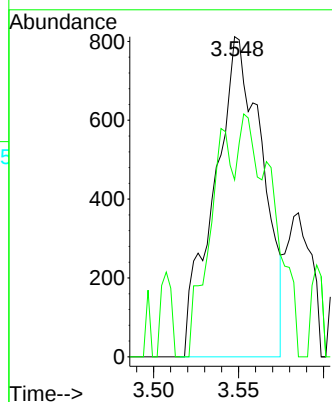


#13
Acrolein
Concen: 1.49 ug/l
RT: 3.548 min Scan# 668
Delta R.T. 0.003 min
Lab File: VN066934.D
Acq: 4 May 2021 13:54

Instrument :
MSVOA_N
ClientSampled :

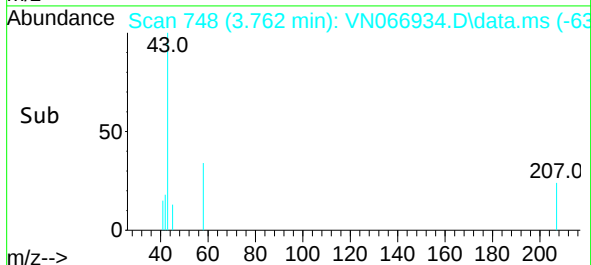
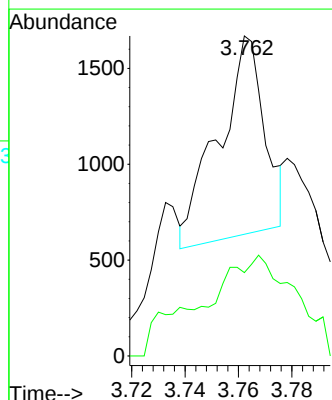
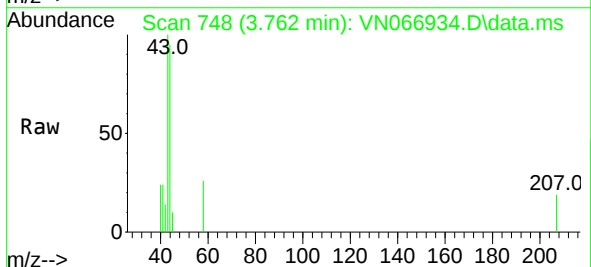


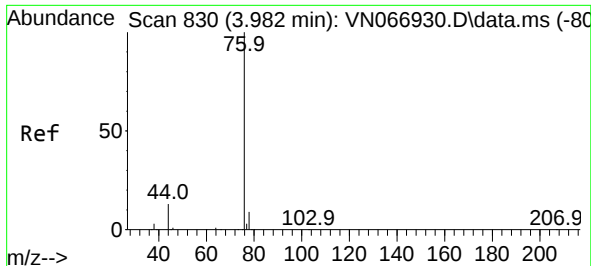
Tgt Ion: 56 Resp: 1599
Ion Ratio Lower Upper
56 100
55 8.1 56.0 84.0#



#16
Acetone
Concen: 0.39 ug/l
RT: 3.762 min Scan# 748
Delta R.T. 0.008 min
Lab File: VN066934.D
Acq: 4 May 2021 13:54

Tgt Ion: 43 Resp: 1242
Ion Ratio Lower Upper
43 100
58 18.2 27.0 40.6#

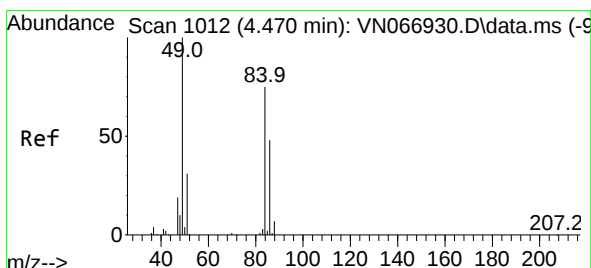
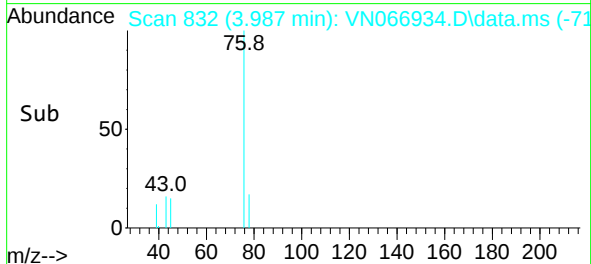
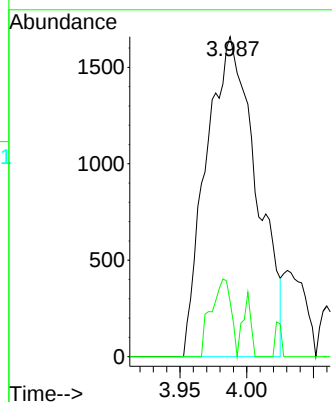
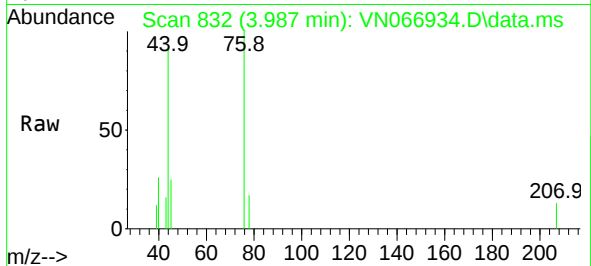




#17
Carbon Disulfide
Concen: 0.22 ug/l
RT: 3.987 min Scan# 832
Delta R.T. 0.005 min
Lab File: VN066934.D
Acq: 4 May 2021 13:54

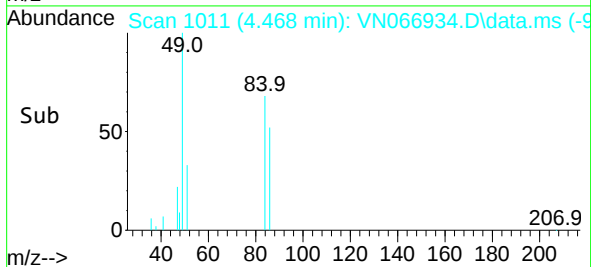
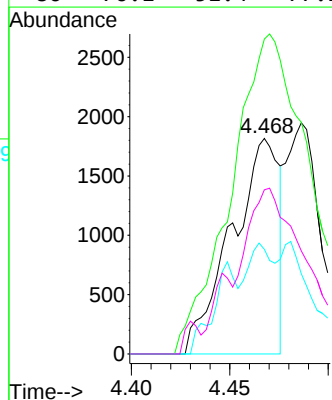
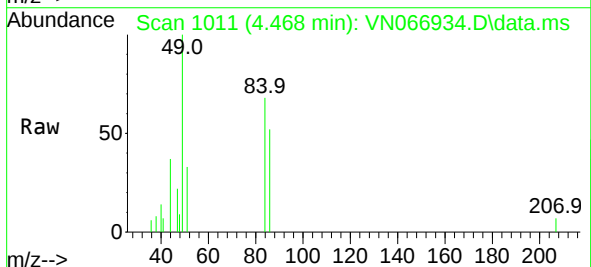
Instrument :
MSVOA_N
ClientSampled :

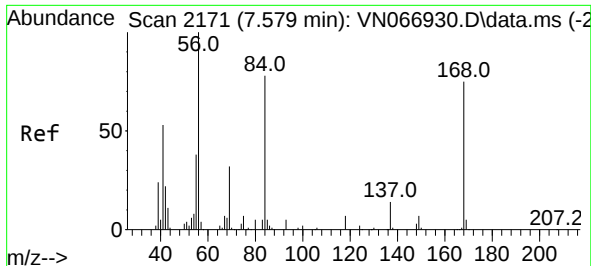
Tgt Ion: 76 Resp: 4325
Ion Ratio Lower Upper
76 100
78 17.2 7.8 11.6#



#20
Methylene Chloride
Concen: 0.37 ug/l
RT: 4.468 min Scan# 1011
Delta R.T. -0.002 min
Lab File: VN066934.D
Acq: 4 May 2021 13:54

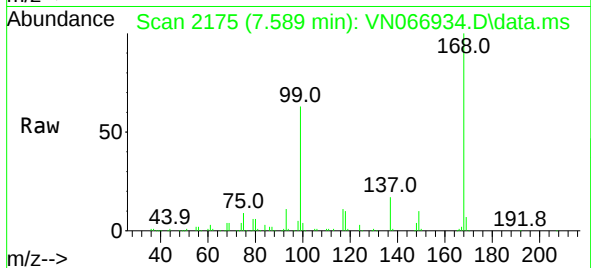
Tgt Ion: 84 Resp: 3030
Ion Ratio Lower Upper
84 100
49 137.1 94.6 141.8
51 48.5 29.9 44.9#
86 76.1 51.4 77.2



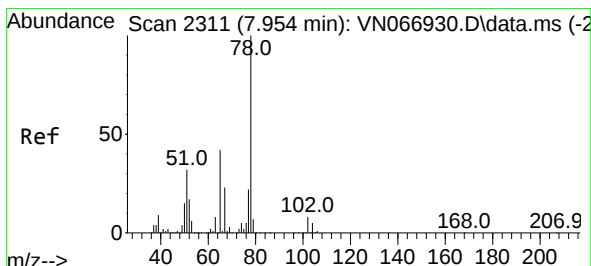
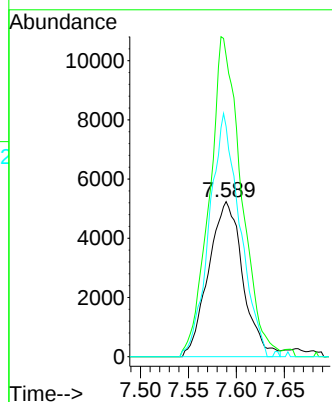
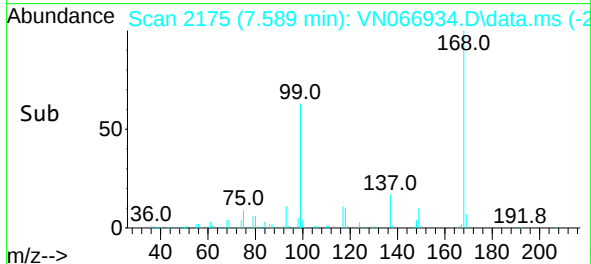


#31
Cyclohexane
Concen: 1.02 ug/l
RT: 7.589 min Scan# 2175
Delta R.T. 0.010 min
Lab File: VN066934.D
Acq: 4 May 2021 13:54

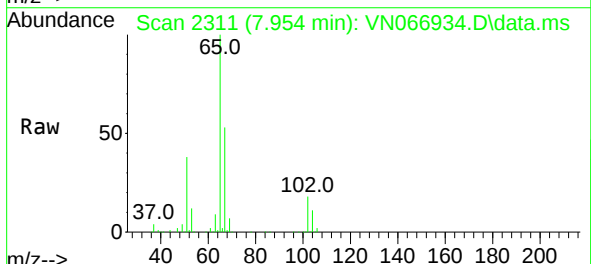
Instrument :
MSVOA_N
ClientSampleId :



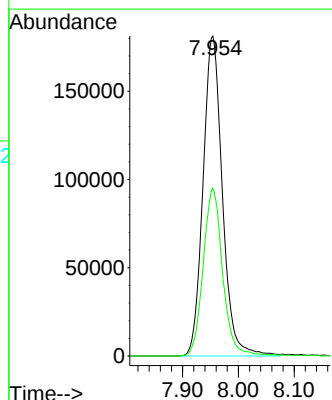
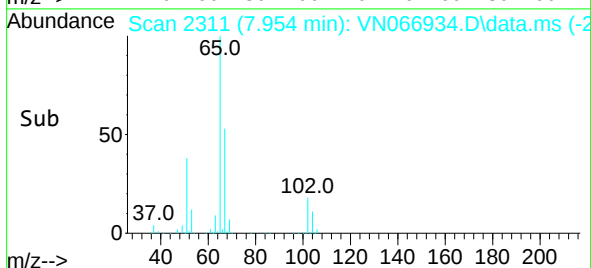
Tgt Ion: 56 Resp: 13076
Ion Ratio Lower Upper
56 100
69 194.0 26.6 39.8#
84 148.3 70.4 105.6#

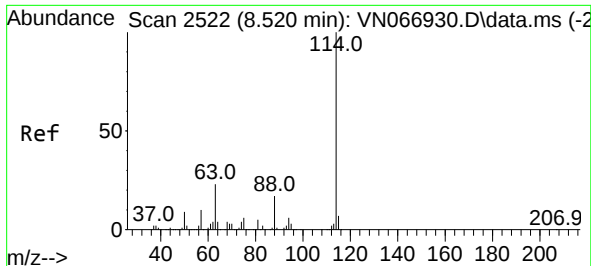


#33
1,2-Dichloroethane-d4
Concen: 48.10 ug/l
RT: 7.954 min Scan# 2311
Delta R.T. 0.000 min
Lab File: VN066934.D
Acq: 4 May 2021 13:54



Tgt Ion: 65 Resp: 438102
Ion Ratio Lower Upper
65 100
67 52.1 0.0 107.2





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.517 min Scan# 2521

Delta R.T. -0.003 min

Lab File: VN066934.D

Acq: 4 May 2021 13:54

Instrument :

MSVOA_N

ClientSampleId :

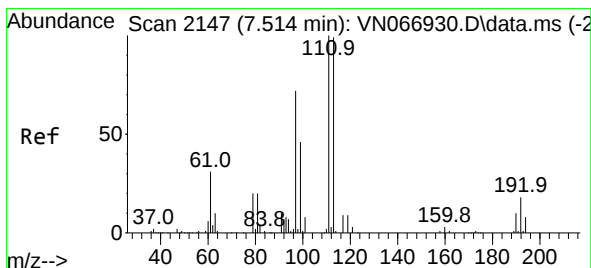
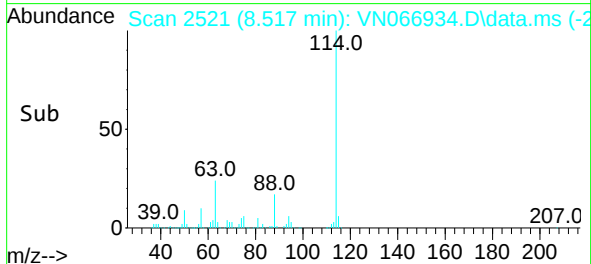
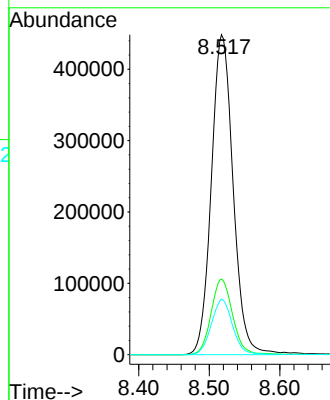
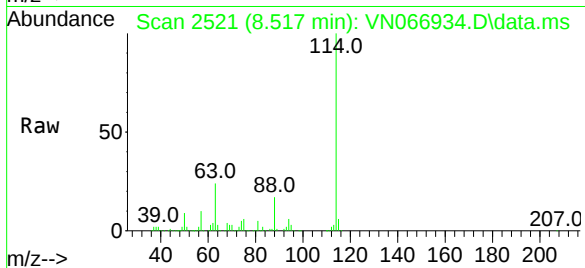
Tgt Ion:114 Resp: 962047

Ion Ratio Lower Upper

114 100

63 23.7 0.0 38.6

88 17.4 0.0 30.6



#35

Dibromofluoromethane

Concen: 48.52 ug/l

RT: 7.512 min Scan# 2146

Delta R.T. -0.002 min

Lab File: VN066934.D

Acq: 4 May 2021 13:54

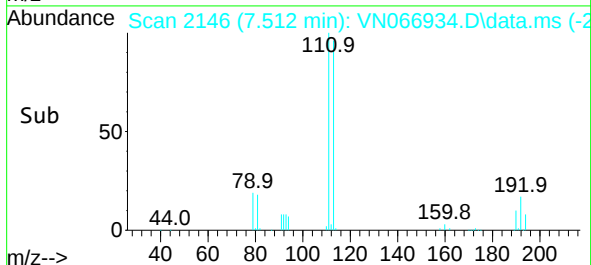
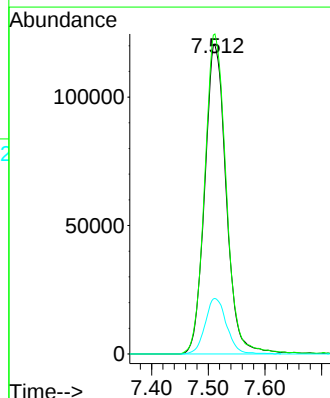
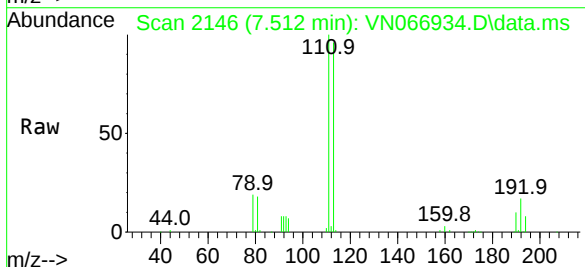
Tgt Ion:113 Resp: 316959

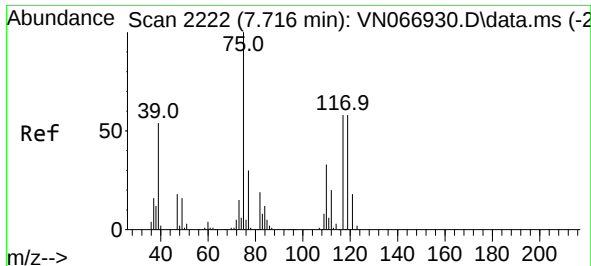
Ion Ratio Lower Upper

113 100

111 103.7 82.2 123.2

192 17.9 15.4 23.0

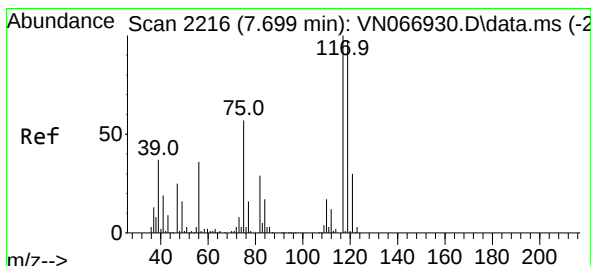
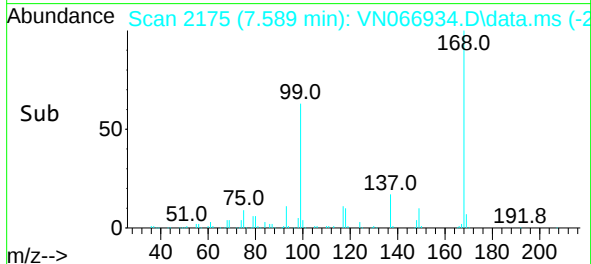
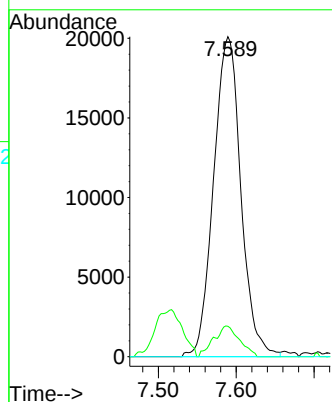
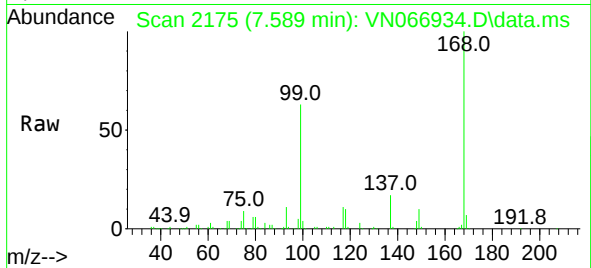




#36
1,1-Dichloropropene
Concen: 4.88 ug/l
RT: 7.589 min Scan# 2175
Delta R.T. -0.127 min
Lab File: VN066934.D
Acq: 4 May 2021 13:54

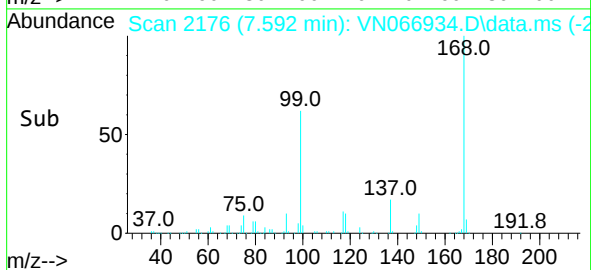
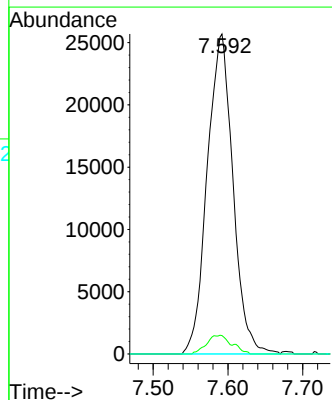
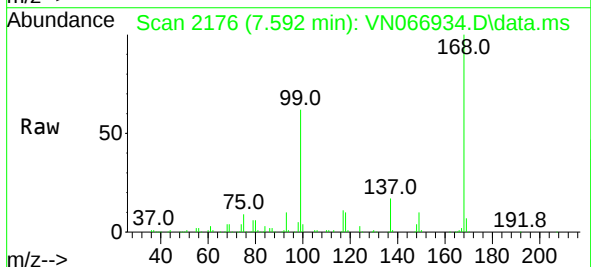
Instrument :
MSVOA_N
ClientSampled :

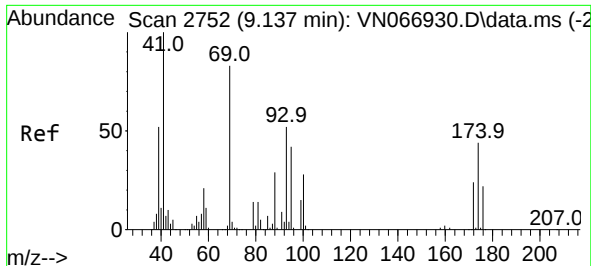
Tgt Ion: 75 Resp: 48880
Ion Ratio Lower Upper
75 100
110 9.0 18.2 54.6#
77 0.0 24.9 37.3#



#38
Carbon Tetrachloride
Concen: 5.88 ug/l
RT: 7.592 min Scan# 2176
Delta R.T. -0.107 min
Lab File: VN066934.D
Acq: 4 May 2021 13:54

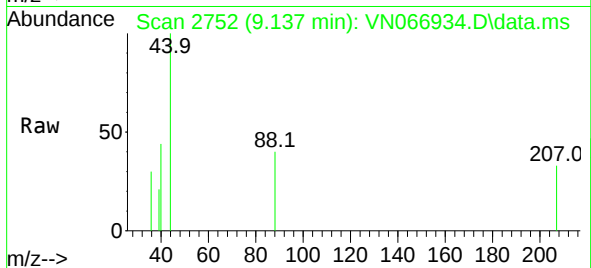
Tgt Ion:117 Resp: 61411
Ion Ratio Lower Upper
117 100
119 5.8 76.0 114.0#
121 0.0 24.5 36.7#



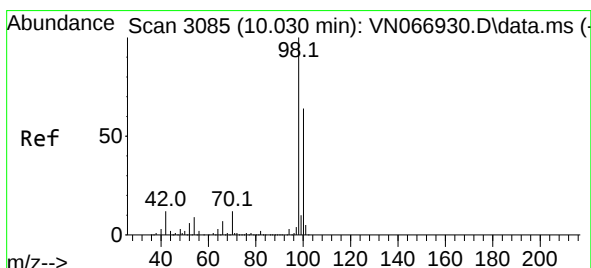
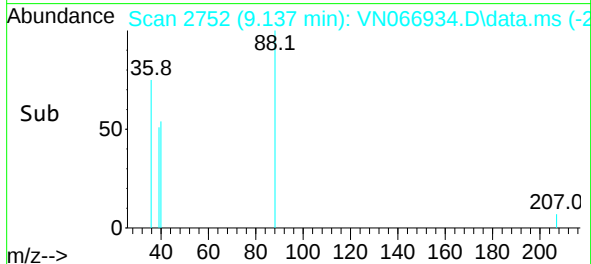
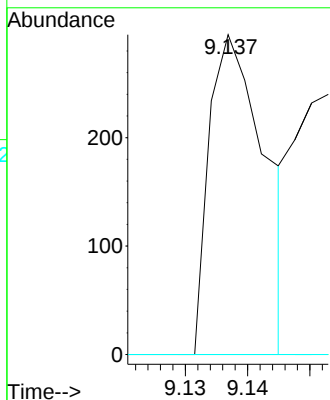


#49
1,4-Dioxane
Concen: 1.58 ug/l
RT: 9.137 min Scan# 2752
Delta R.T. -0.000 min
Lab File: VN066934.D
Acq: 4 May 2021 13:54

Instrument :
MSVOA_N
ClientSampled :

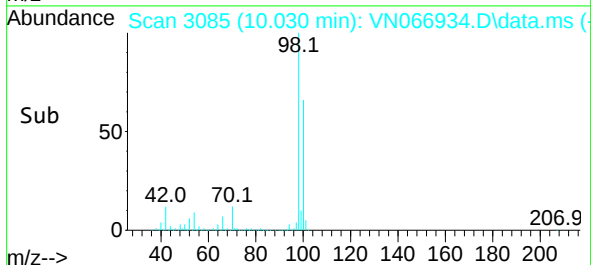
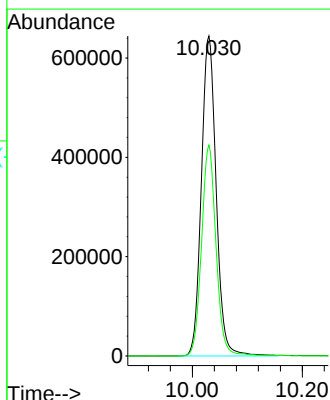
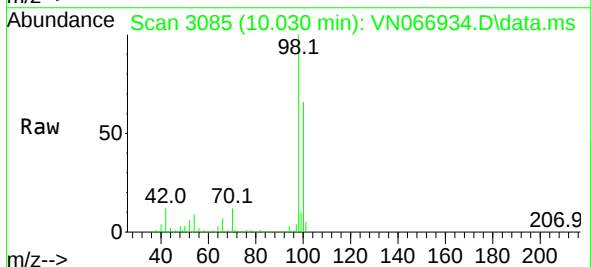


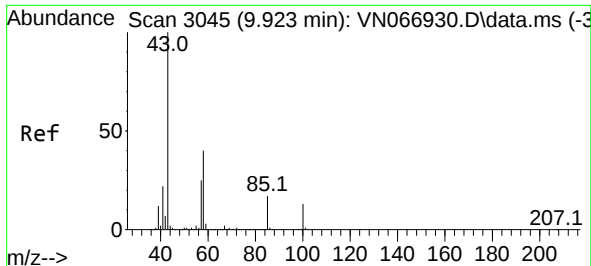
Tgt Ion: 88 Resp: 184
Ion Ratio Lower Upper
88 100
43 0.0 24.7 37.1#
58 0.0 52.6 78.8#



#50
Toluene-d8
Concen: 48.38 ug/l
RT: 10.030 min Scan# 3085
Delta R.T. -0.000 min
Lab File: VN066934.D
Acq: 4 May 2021 13:54

Tgt Ion: 98 Resp: 1203555
Ion Ratio Lower Upper
98 100
100 64.5 50.5 75.7

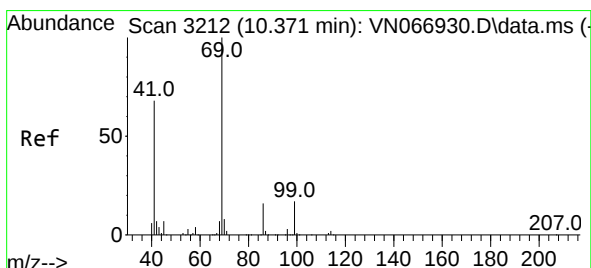
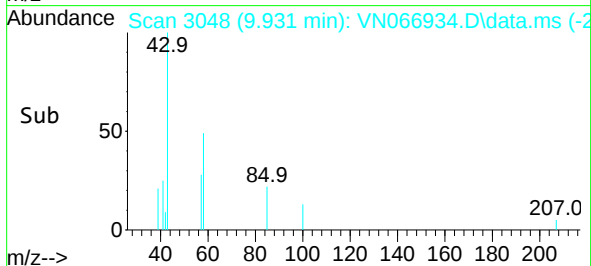
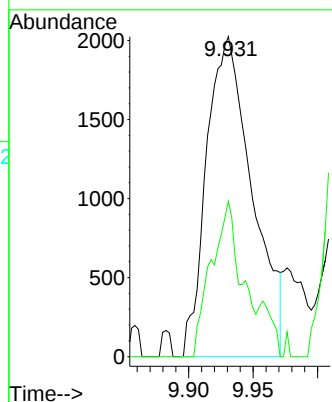
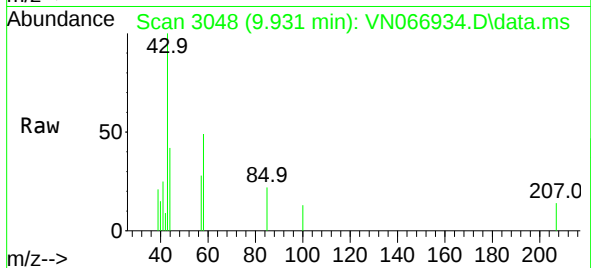




#51
4-Methyl-2-Pentanone
Concen: 0.52 ug/l
RT: 9.931 min Scan# 3048
Delta R.T. 0.008 min
Lab File: VN066934.D
Acq: 4 May 2021 13:54

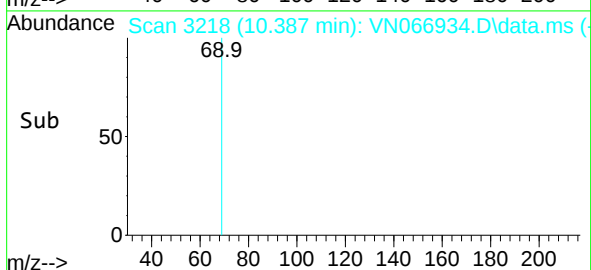
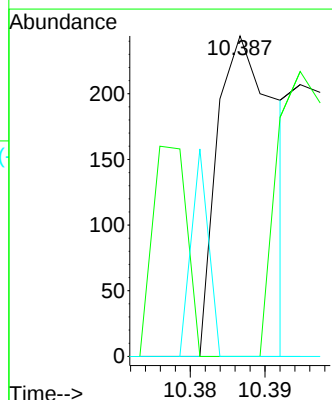
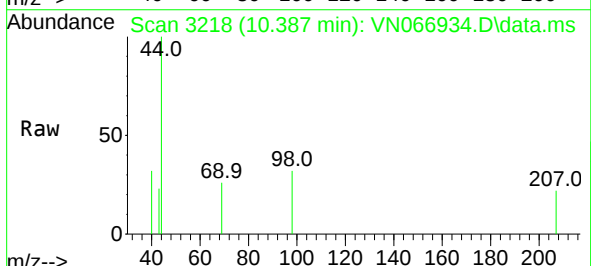
Instrument :
MSVOA_N
ClientSampled :

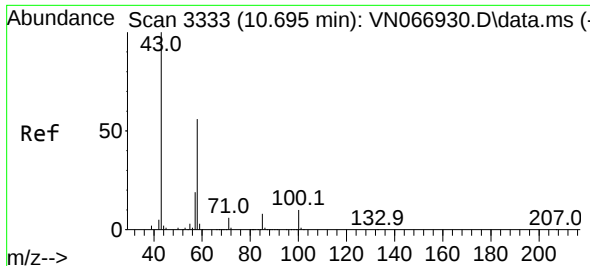
Tgt Ion: 43 Resp: 4989
Ion Ratio Lower Upper
43 100
58 31.9 32.5 48.7#



#56
Ethyl methacrylate
Concen: 5.20 ug/l
RT: 10.387 min Scan# 3218
Delta R.T. 0.016 min
Lab File: VN066934.D
Acq: 4 May 2021 13:54

Tgt Ion: 69 Resp: 134
Ion Ratio Lower Upper
69 100
41 38.1 49.6 74.4#
39 18.7 28.0 42.0#

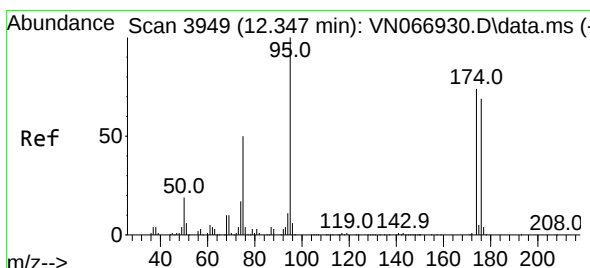
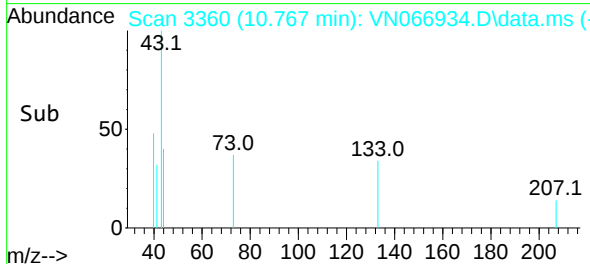
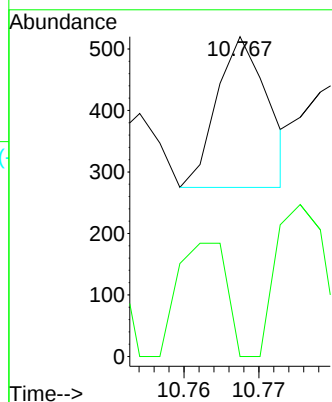
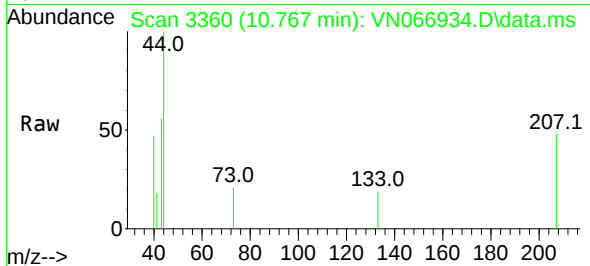




#59
2-Hexanone
Concen: 28.38 ug/l
RT: 10.767 min Scan# 3360
Delta R.T. 0.072 min
Lab File: VN066934.D
Acq: 4 May 2021 13:54

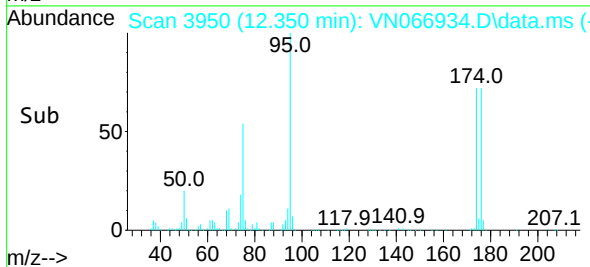
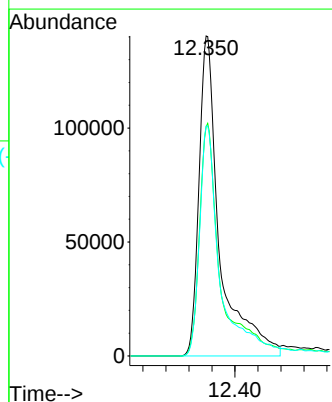
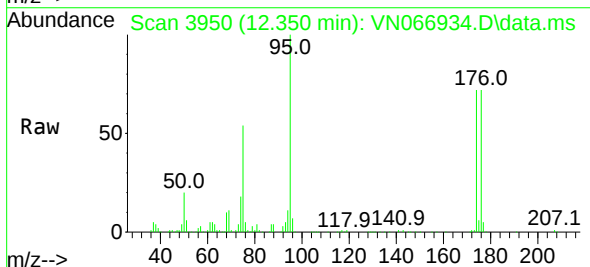
Instrument :
MSVOA_N
ClientSampleId :

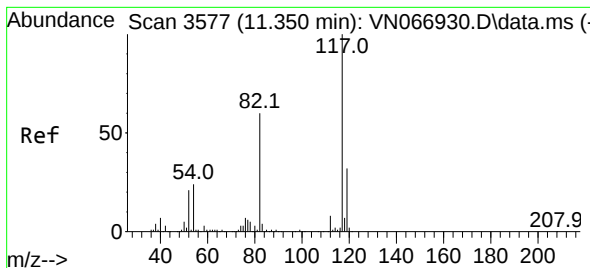
Tgt Ion: 43 Resp: 116
Ion Ratio Lower Upper
43 100
58 71.6 28.1 84.3



#62
4-Bromofluorobenzene
Concen: 41.87 ug/l
RT: 12.350 min Scan# 3950
Delta R.T. 0.003 min
Lab File: VN066934.D
Acq: 4 May 2021 13:54

Tgt Ion: 95 Resp: 352669
Ion Ratio Lower Upper
95 100
174 73.7 0.0 169.0
176 72.3 0.0 162.4

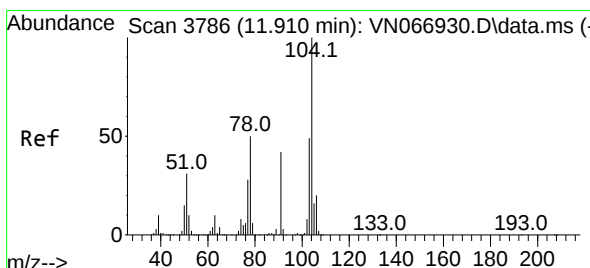
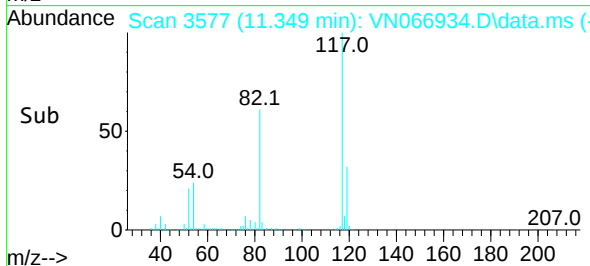
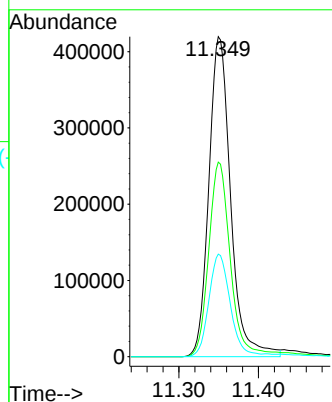
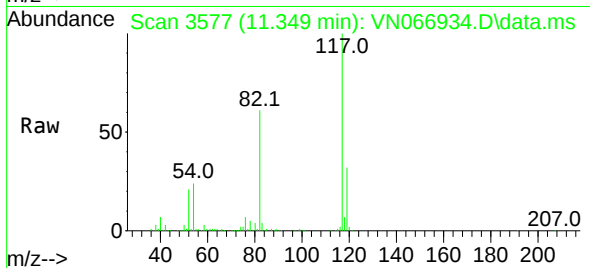




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.349 min Scan# 3577
Delta R.T. -0.001 min
Lab File: VN066934.D
Acq: 4 May 2021 13:54

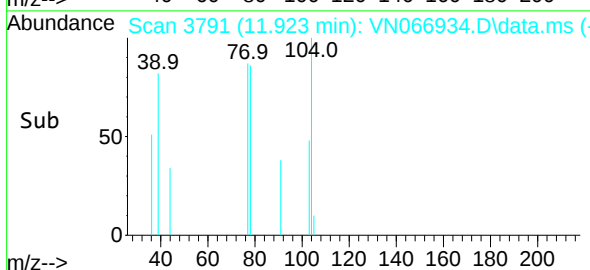
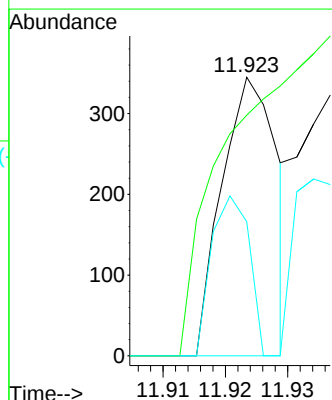
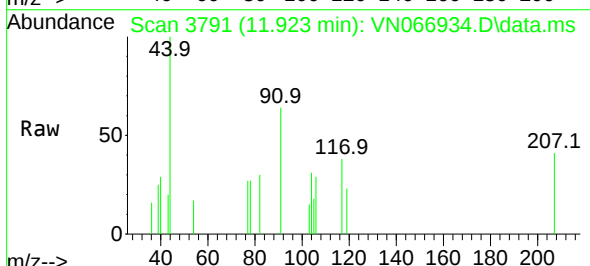
Instrument :
MSVOA_N
ClientSampleId :

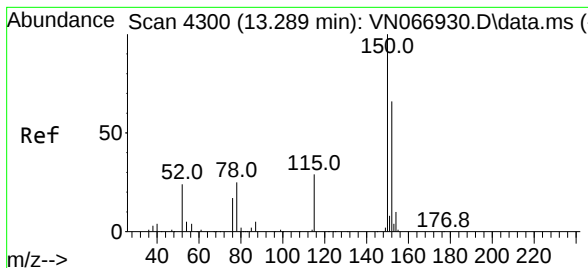
Tgt Ion:117 Resp: 799300
Ion Ratio Lower Upper
117 100
82 60.8 43.7 65.5
119 32.0 26.1 39.1



#70
Styrene
Concen: 4.72 ug/l
RT: 11.923 min Scan# 3791
Delta R.T. 0.013 min
Lab File: VN066934.D
Acq: 4 May 2021 13:54

Tgt Ion:104 Resp: 212
Ion Ratio Lower Upper
104 100
78 270.8 39.0 58.4#
103 39.2 44.5 66.7#

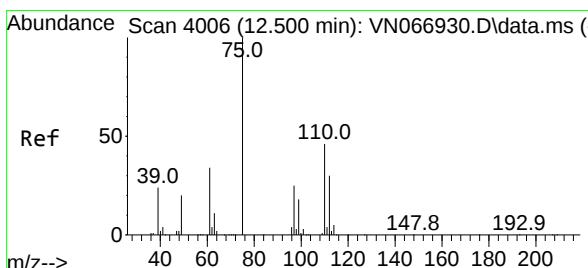
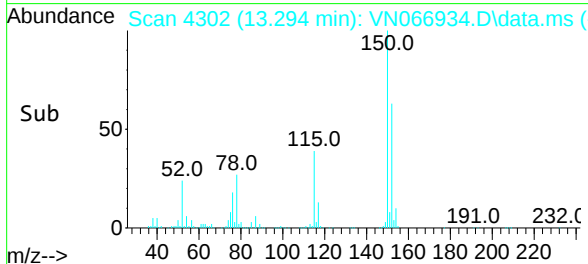
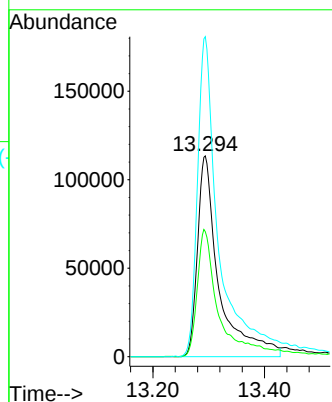
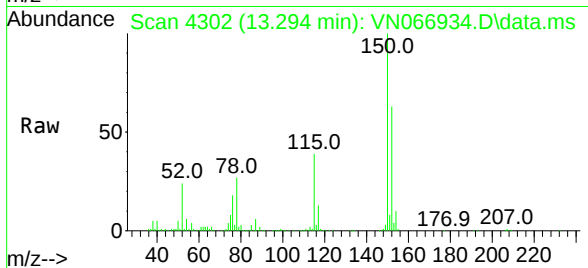




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.294 min Scan# 4302
Delta R.T. 0.005 min
Lab File: VN066934.D
Acq: 4 May 2021 13:54

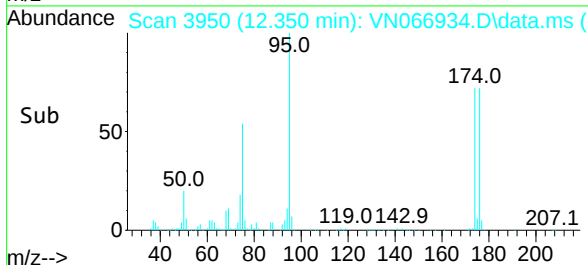
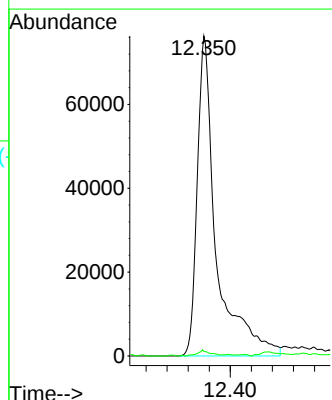
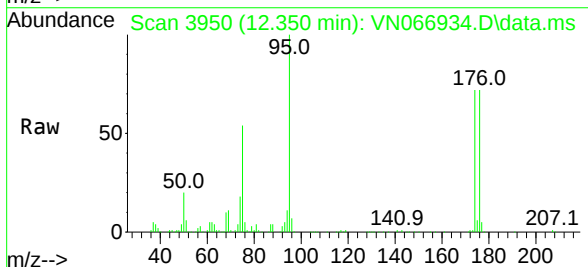
Instrument :
MSVOA_N
ClientSampled :

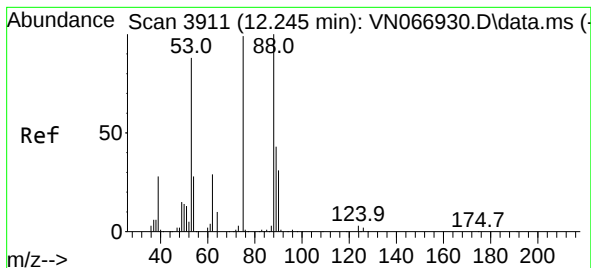
Tgt Ion:152 Resp: 304975
Ion Ratio Lower Upper
152 100
115 62.2 28.5 85.6
150 160.5 0.0 347.6



#76
1,2,3-Trichloropropane
Concen: 26.35 ug/l
RT: 12.350 min Scan# 3950
Delta R.T. -0.150 min
Lab File: VN066934.D
Acq: 4 May 2021 13:54

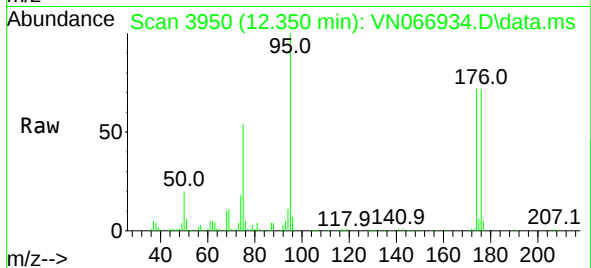
Tgt Ion: 75 Resp: 191407
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#



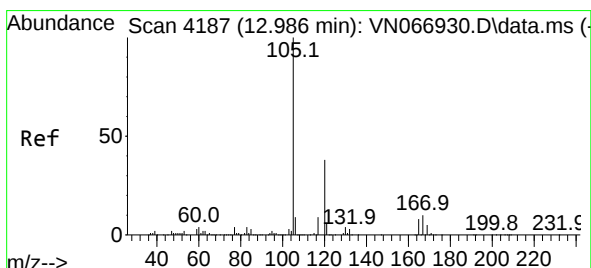
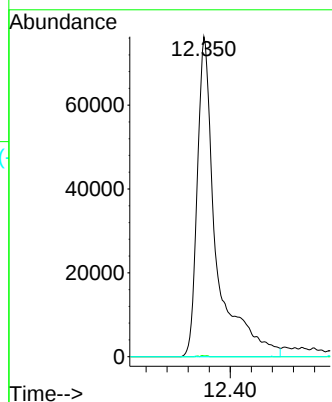
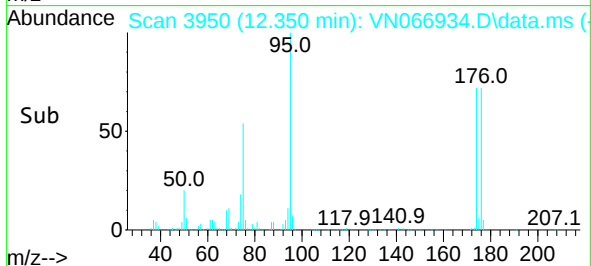


#81
trans-1,4-Dichloro-2-butene
Concen: 78.98 ug/l
RT: 12.350 min Scan# 3950
Delta R.T. 0.105 min
Lab File: VN066934.D
Acq: 4 May 2021 13:54

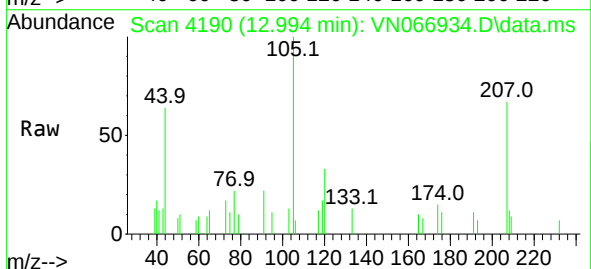
Instrument :
MSVOA_N
ClientSampleId :



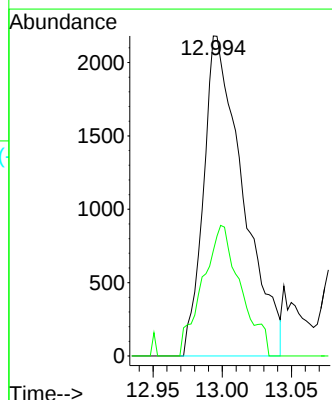
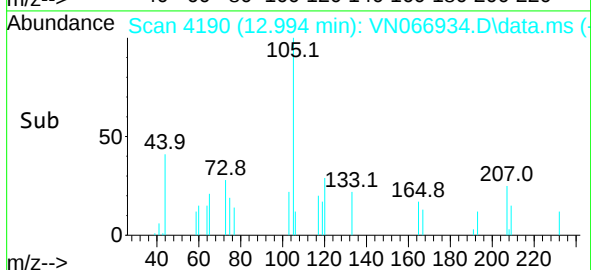
Tgt Ion: 75 Resp: 191407
Ion Ratio Lower Upper
75 100
53 0.1 74.6 111.8#
89 0.0 35.8 53.8#

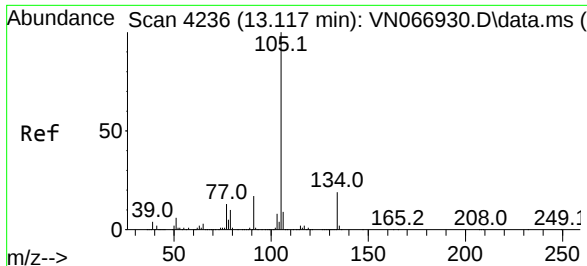


#84
1,2,4-Trimethylbenzene
Concen: 0.22 ug/l
RT: 12.994 min Scan# 4190
Delta R.T. 0.008 min
Lab File: VN066934.D
Acq: 4 May 2021 13:54



Tgt Ion: 105 Resp: 4325
Ion Ratio Lower Upper
105 100
120 39.4 22.4 67.0

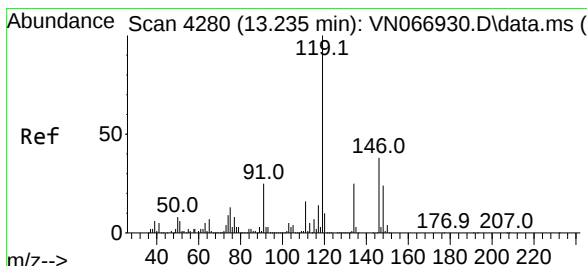
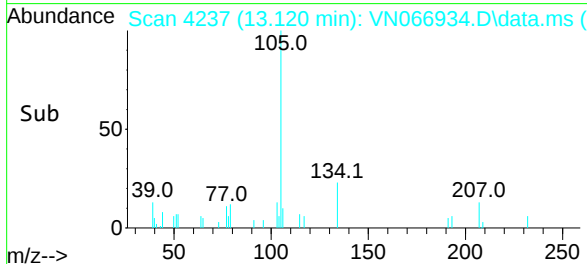
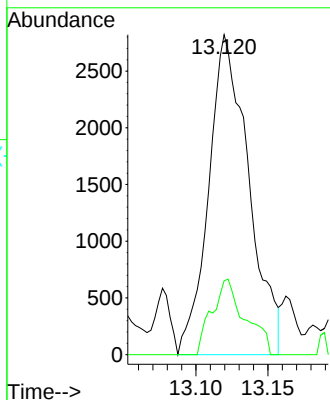
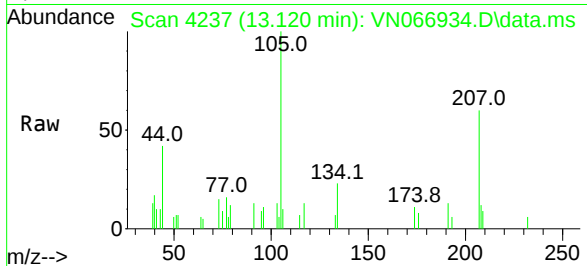




#85
 sec-Butylbenzene
 Concen: 0.24 ug/l
 RT: 13.120 min Scan# 4237
 Delta R.T. 0.003 min
 Lab File: VN066934.D
 Acq: 4 May 2021 13:54

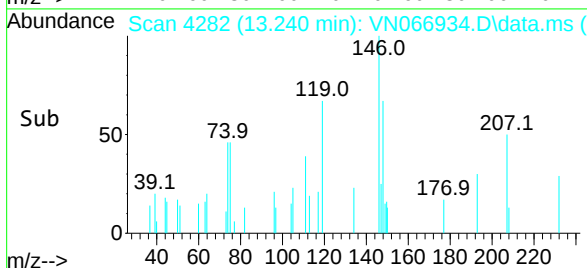
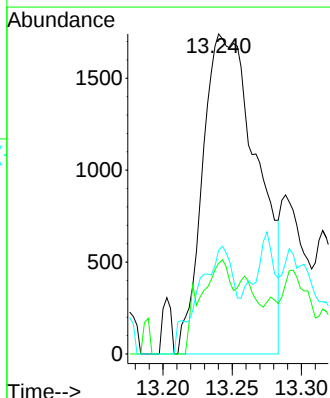
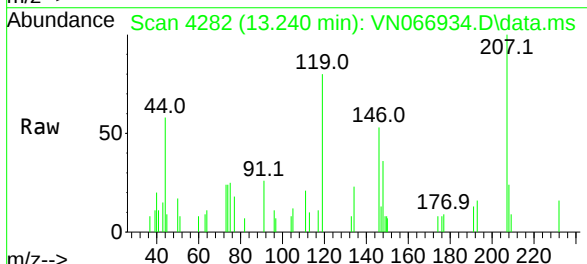
Instrument :
 MSVOA_N
 ClientSampleId :

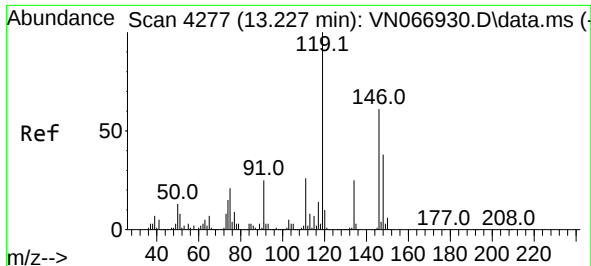
Tgt Ion:105 Resp: 5463
 Ion Ratio Lower Upper
 105 100
 134 19.5 10.0 30.0



#86
 p-Isopropyltoluene
 Concen: 0.25 ug/l
 RT: 13.240 min Scan# 4282
 Delta R.T. 0.005 min
 Lab File: VN066934.D
 Acq: 4 May 2021 13:54

Tgt Ion:119 Resp: 4766
 Ion Ratio Lower Upper
 119 100
 134 16.6 13.3 39.8
 91 22.6 11.8 35.3



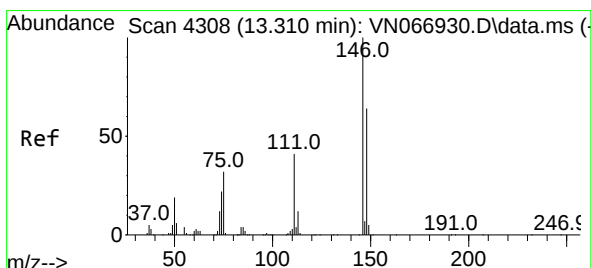
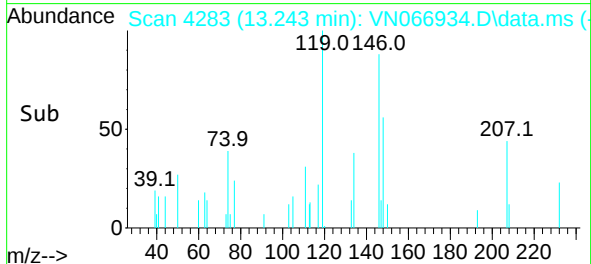
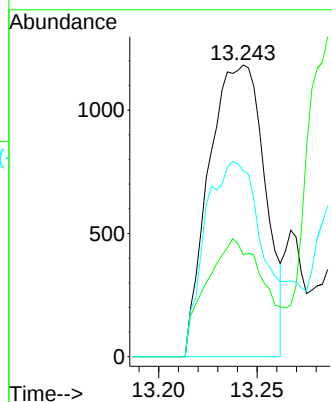
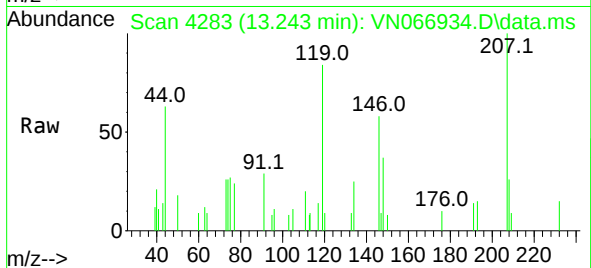


#87

1,3-Dichlorobenzene
Concen: 0.24 ug/l
RT: 13.243 min Scan# 4283
Delta R.T. 0.016 min
Lab File: VN066934.D
Acq: 4 May 2021 13:54

Instrument :
MSVOA_N
ClientSampleId :

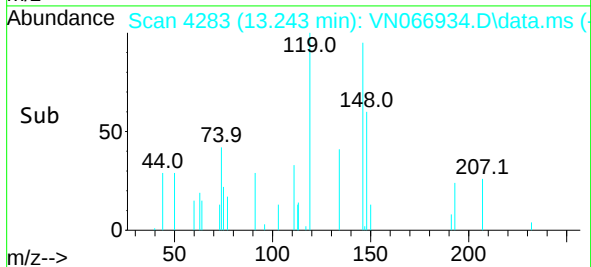
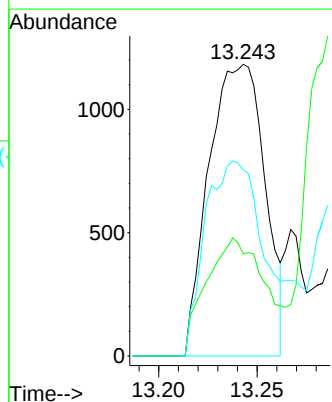
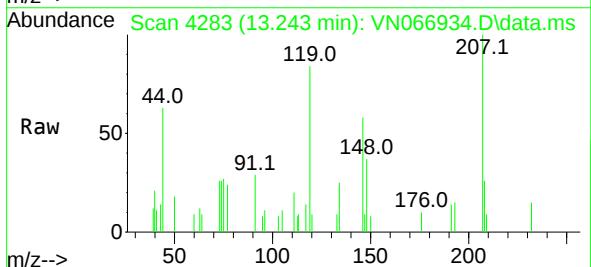
Tgt Ion:146 Resp: 2339
Ion Ratio Lower Upper
146 100
111 42.7 19.5 58.5
148 78.0 32.3 96.9

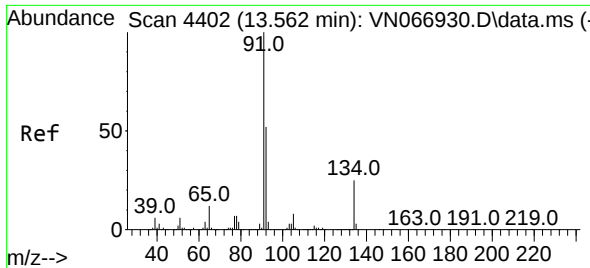


#88

1,4-Dichlorobenzene
Concen: 0.24 ug/l
RT: 13.243 min Scan# 4283
Delta R.T. -0.067 min
Lab File: VN066934.D
Acq: 4 May 2021 13:54

Tgt Ion:146 Resp: 2339
Ion Ratio Lower Upper
146 100
111 42.7 19.0 57.0
148 78.0 31.8 95.3

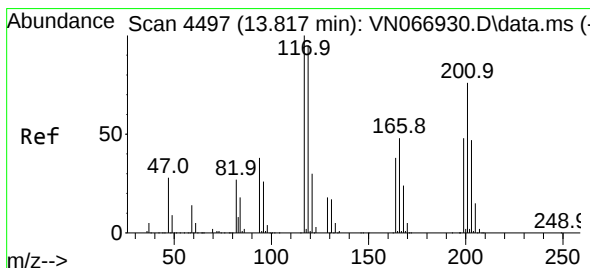
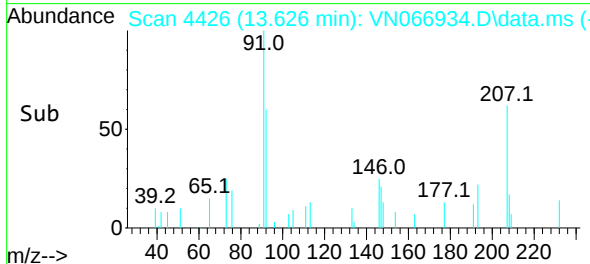
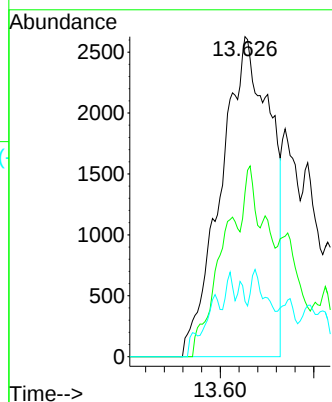
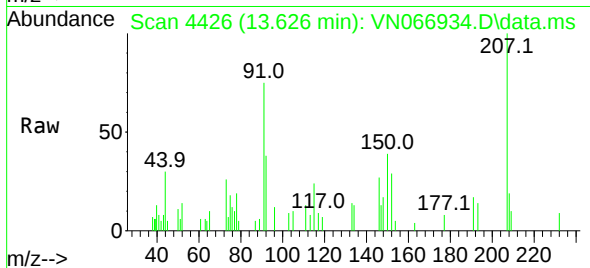




#89
n-Butylbenzene
Concen: 5.74 ug/l
RT: 13.626 min Scan# 4426
Delta R.T. 0.064 min
Lab File: VN066934.D
Acq: 4 May 2021 13:54

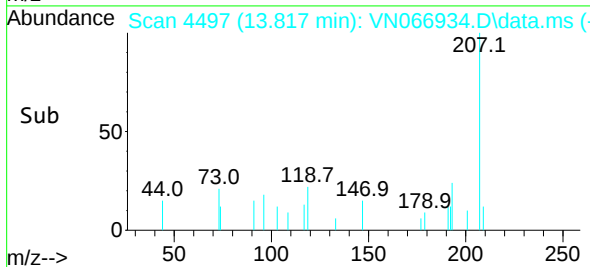
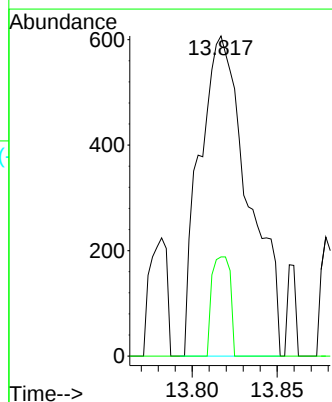
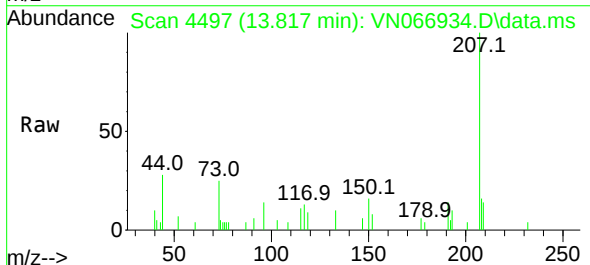
Instrument :
MSVOA_N
ClientSampled :

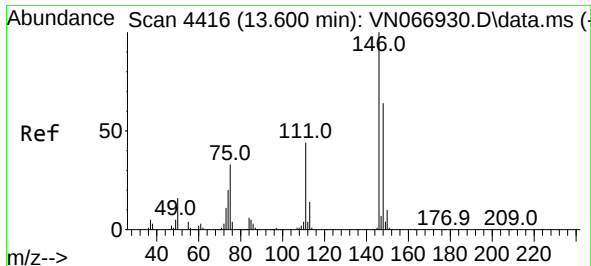
Tgt Ion: 91 Resp: 9696
Ion Ratio Lower Upper
91 100
92 5.3 26.1 78.3#
134 3.8 13.0 38.9#



#90
Hexachloroethane
Concen: 0.28 ug/l
RT: 13.817 min Scan# 4497
Delta R.T. -0.000 min
Lab File: VN066934.D
Acq: 4 May 2021 13:54

Tgt Ion: 117 Resp: 1212
Ion Ratio Lower Upper
117 100
201 11.6 37.8 113.3#

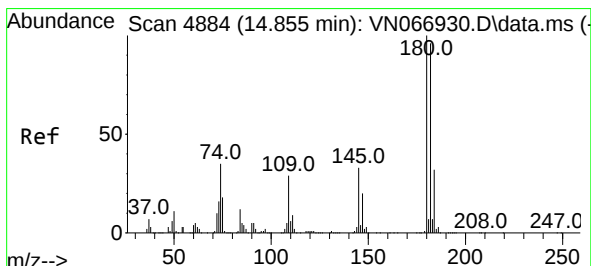
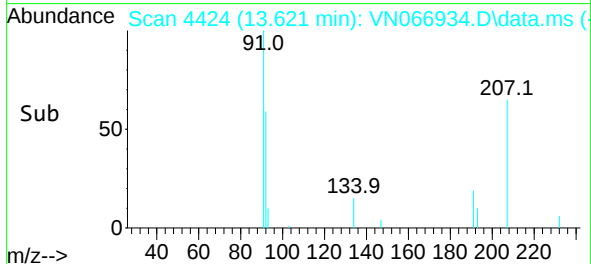
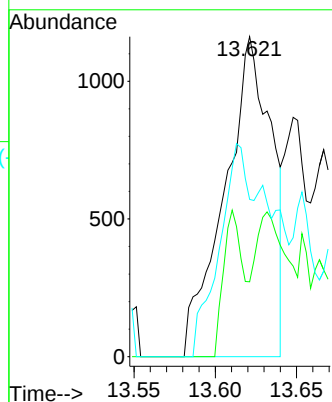
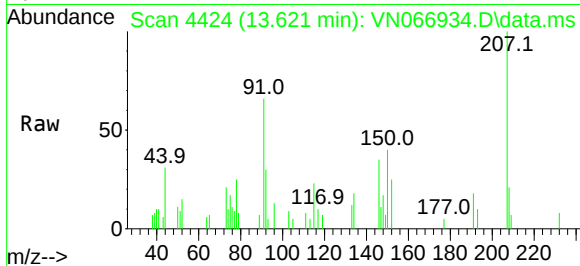




#91
1,2-Dichlorobenzene
Concen: 0.24 ug/l
RT: 13.621 min Scan# 4424
Delta R.T. 0.021 min
Lab File: VN066934.D
Acq: 4 May 2021 13:54

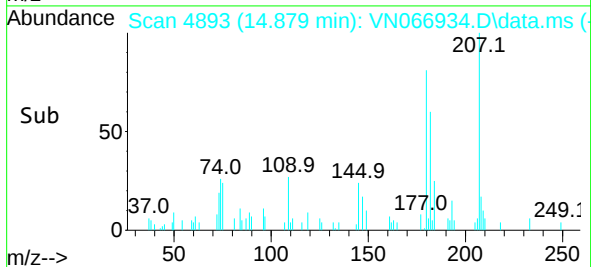
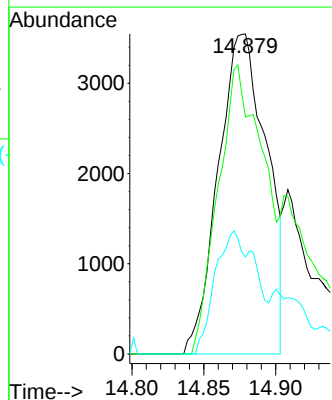
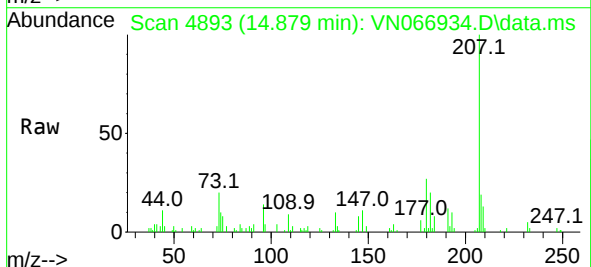
Instrument :
MSVOA_N
ClientSampled :

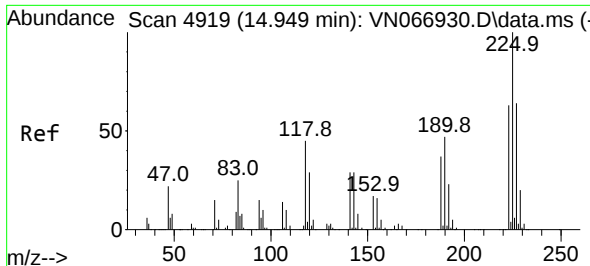
Tgt Ion:146 Resp: 2320
Ion Ratio Lower Upper
146 100
111 19.9 20.1 60.3#
148 45.2 32.0 96.0



#93
1,2,4-Trichlorobenzene
Concen: 1.61 ug/l
RT: 14.879 min Scan# 4893
Delta R.T. 0.024 min
Lab File: VN066934.D
Acq: 4 May 2021 13:54

Tgt Ion:180 Resp: 8273
Ion Ratio Lower Upper
180 100
182 84.4 47.3 142.0
145 32.9 15.6 46.8

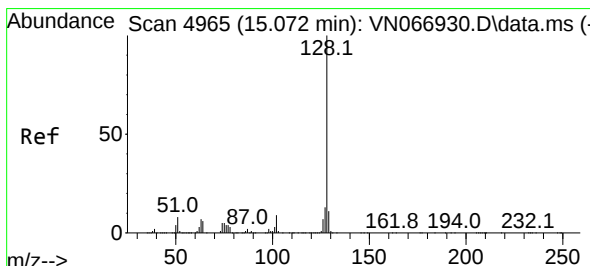
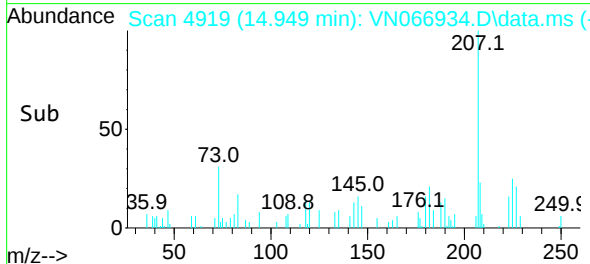
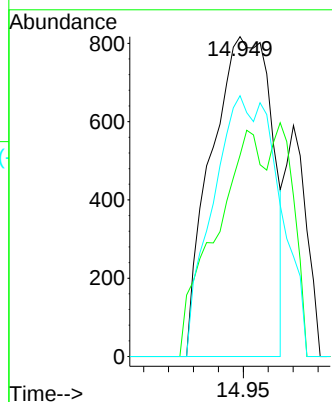
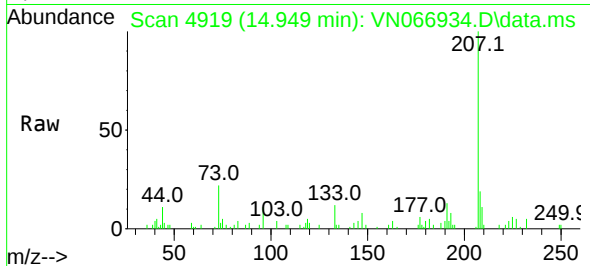




#94
Hexachlorobutadiene
Concen: 0.44 ug/l
RT: 14.949 min Scan# 4919
Delta R.T. -0.000 min
Lab File: VN066934.D
Acq: 4 May 2021 13:54

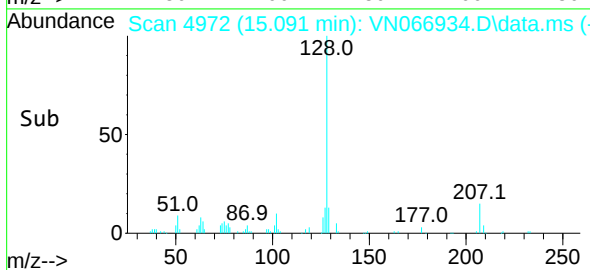
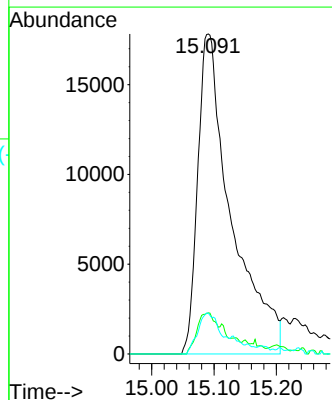
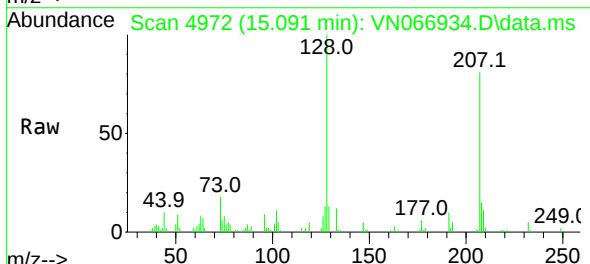
Instrument :
MSVOA_N
ClientSampled :

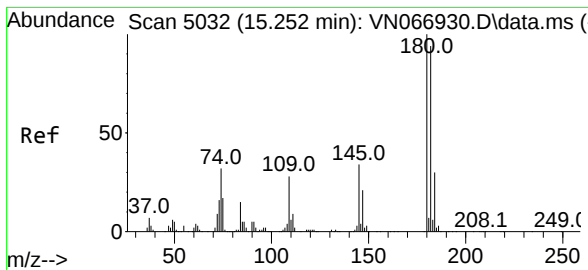
Tgt Ion:	225	Resp:	1384
Ion	Ratio	Lower	Upper
225	100		
223	57.9	31.9	95.9
227	89.1	31.6	95.0



#95
Naphthalene
Concen: 4.95 ug/l
RT: 15.091 min Scan# 4972
Delta R.T. 0.019 min
Lab File: VN066934.D
Acq: 4 May 2021 13:54

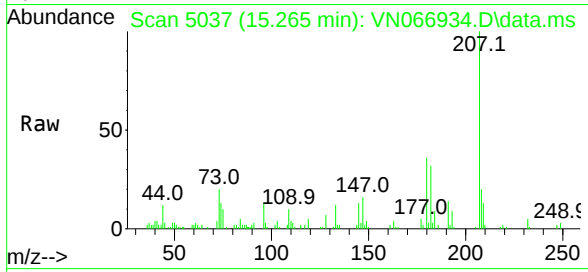
Tgt Ion:	128	Resp:	66361
Ion	Ratio	Lower	Upper
128	100		
127	7.2	10.2	15.2#
129	8.6	8.6	13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 3.04 ug/l
 RT: 15.265 min Scan# 5037
 Delta R.T. 0.013 min
 Lab File: VN066934.D
 Acq: 4 May 2021 13:54

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	15118
Ion	Ratio	Lower	Upper
180	100		
182	92.2	47.4	142.3
145	23.1	16.5	49.5

