

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042721\
 Data File : VN066781.D
 Acq On : 27 Apr 2021 15:13
 Operator : JC/MD
 Sample : VN0427WBL01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 28 08:09:34 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N042721W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 27 16:02:50 2021
 Response via : Initial Calibration

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

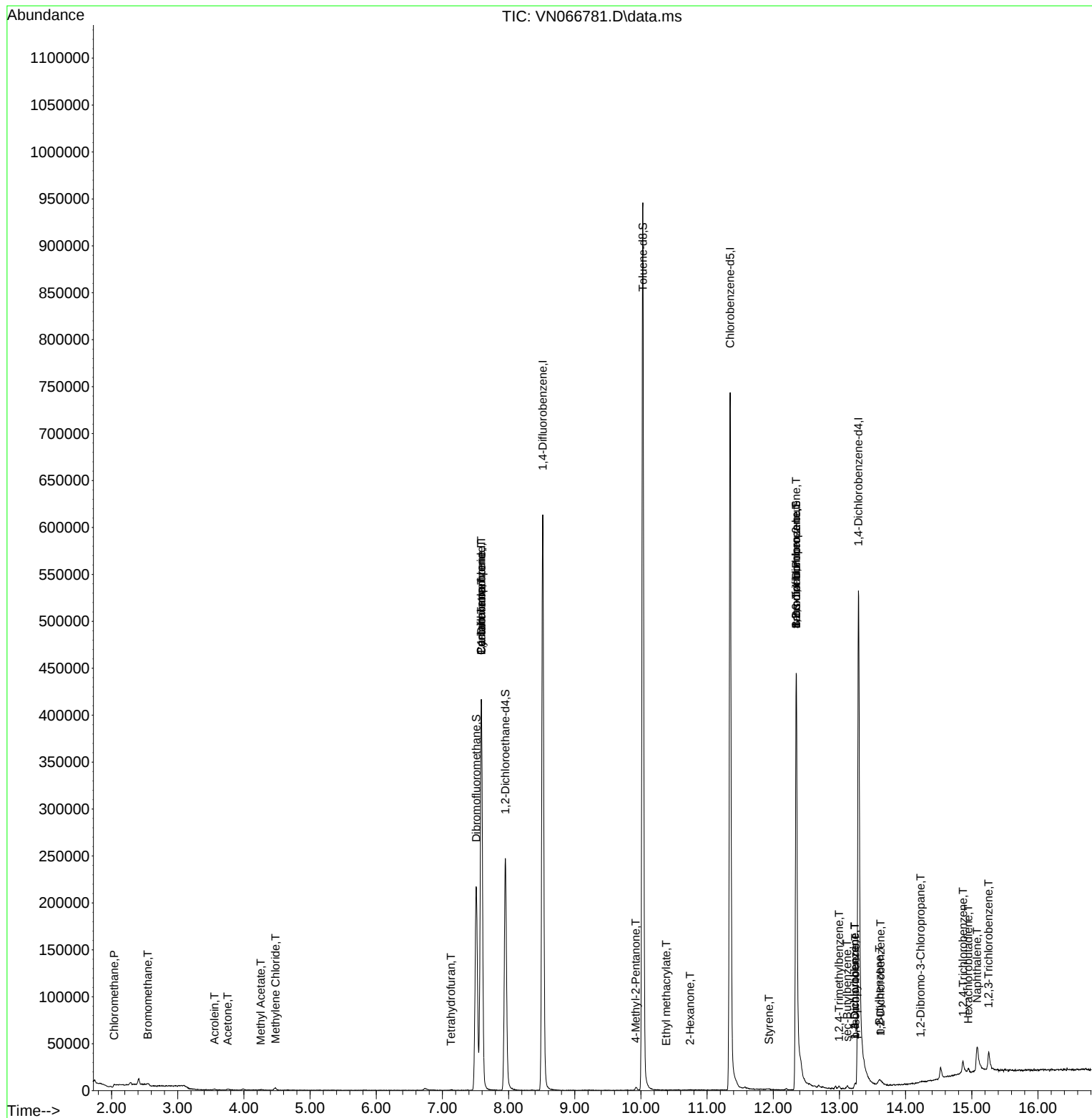
Internal Standards						
1) Pentafluorobenzene	7.588	168	361953	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.516	114	565644	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.348	117	473663	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.288	152	201446	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.950	65	219321	47.16	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	94.32%		
35) Dibromofluoromethane	7.511	113	174039	49.84	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	99.68%		
50) Toluene-d8	10.029	98	674786	49.24	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	98.48%		
62) 4-Bromofluorobenzene	12.346	95	204298	44.06	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	88.12%		
Target Compounds						Qvalue
3) Chloromethane	2.039	50	1049	0.20	ug/l #	72
5) Bromomethane	2.546	94	825	0.25	ug/l	99
13) Acrolein	3.555	56	601	1.00	ug/l	84
16) Acetone	3.756	43	1007	0.57	ug/l #	85
18) Methyl Acetate	4.255	43	828	1.28	ug/l #	51
20) Methylene Chloride	4.477	84	1816	0.41	ug/l #	84
29) Tetrahydrofuran	7.130	42	562	0.33	ug/l #	32
31) Cyclohexane	7.588	56	7148	0.99	ug/l #	1
36) 1,1-Dichloropropene	7.588	75	26699	5.08	ug/l #	48
38) Carbon Tetrachloride	7.588	117	32381	6.42	ug/l #	16
51) 4-Methyl-2-Pentanone	9.922	43	3538	0.73	ug/l #	78
56) Ethyl methacrylate	10.380	69	50	3.18	ug/l #	68
59) 2-Hexanone	10.742	43	185	19.59	ug/l	79
70) Styrene	11.936	104	566	3.09	ug/l #	70
71) Bromoform	12.346	173	1117	0.43	ug/l #	1
76) 1,2,3-Trichloropropane	12.346	75	101737	23.96	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.346	75	101737	64.53	ug/l #	12
84) 1,2,4-Trimethylbenzene	12.995	105	2530	0.22	ug/l	94
85) sec-Butylbenzene	13.119	105	2987	0.22	ug/l	91
86) p-Isopropyltoluene	13.239	119	2682	0.23	ug/l	87
87) 1,3-Dichlorobenzene	13.231	146	1679	0.27	ug/l	99
88) 1,4-Dichlorobenzene	13.231	146	1679	0.26	ug/l	100
89) n-Butylbenzene	13.601	91	4054	0.40	ug/l #	83
91) 1,2-Dichlorobenzene	13.620	146	1927	0.31	ug/l	95
92) 1,2-Dibromo-3-Chloropr...	14.226	75	257	0.30	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.867	180	6248	1.80	ug/l	98
94) Hexachlorobutadiene	14.948	225	948	0.49	ug/l	90
95) Naphthalene	15.082	128	36729	4.11	ug/l #	91
96) 1,2,3-Trichlorobenzene	15.253	180	9098	2.71	ug/l	99

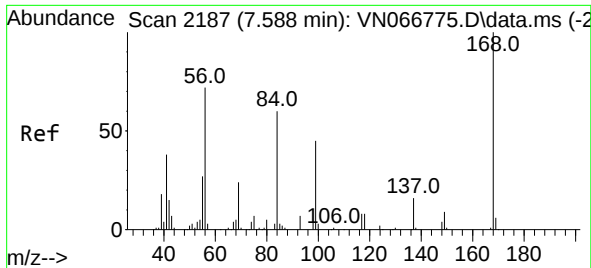
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Apr 28 08:09:34 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N042721W.M
Quant Title : SW846 8260
QLast Update : Tue Apr 27 16:02:50 2021
Response via : Initial Calibration

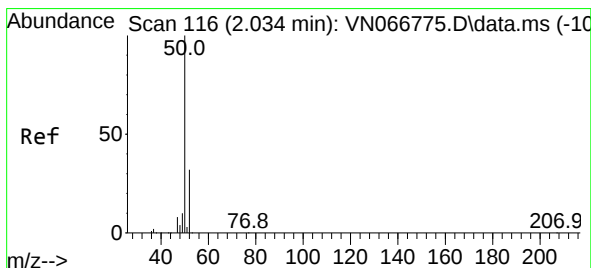
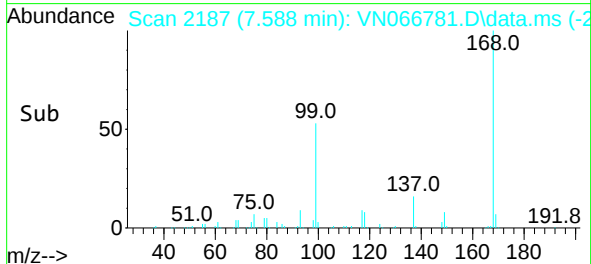
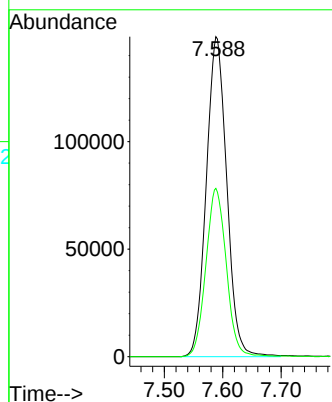
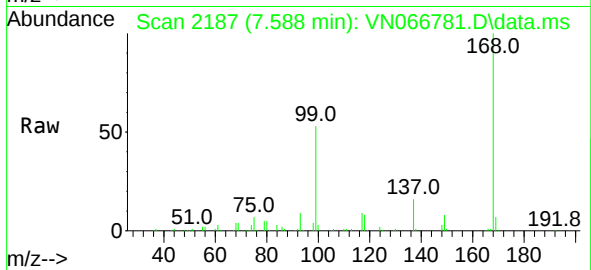




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.588 min Scan# 2187
Delta R.T. 0.000 min
Lab File: VN066781.D
Acq: 27 Apr 2021 15:13

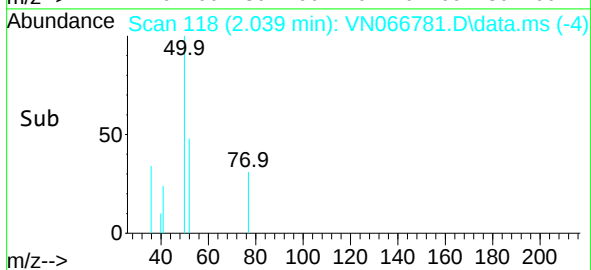
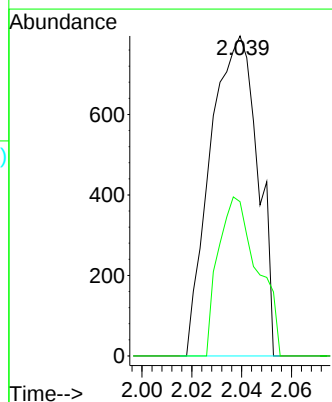
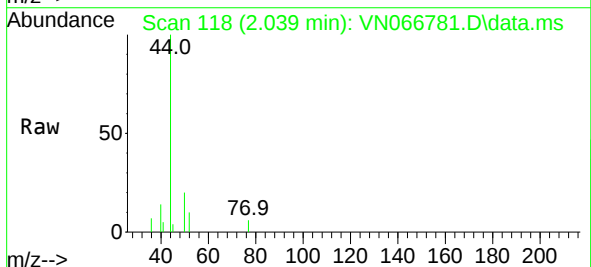
Instrument :
MSVOA_N
ClientSampled :

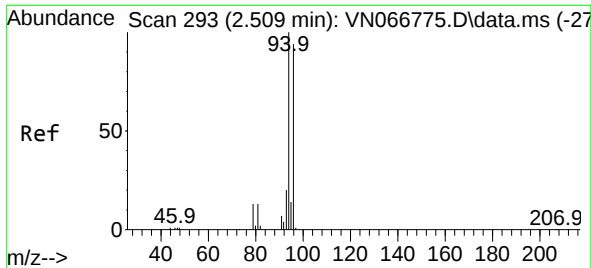
Tgt Ion:168 Resp: 361953
Ion Ratio Lower Upper
168 100
99 52.6 42.6 63.8



#3
Chloromethane
Concen: 0.20 ug/l
RT: 2.039 min Scan# 118
Delta R.T. 0.005 min
Lab File: VN066781.D
Acq: 27 Apr 2021 15:13

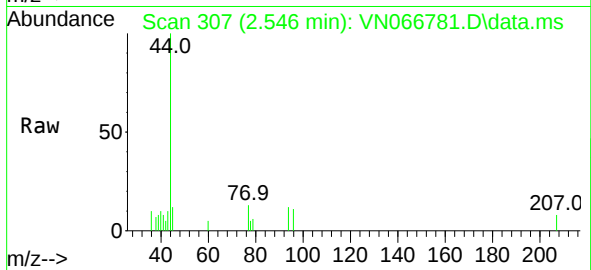
Tgt Ion: 50 Resp: 1049
Ion Ratio Lower Upper
50 100
52 48.2 25.8 38.8#



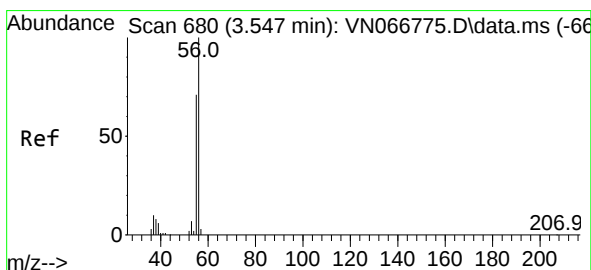
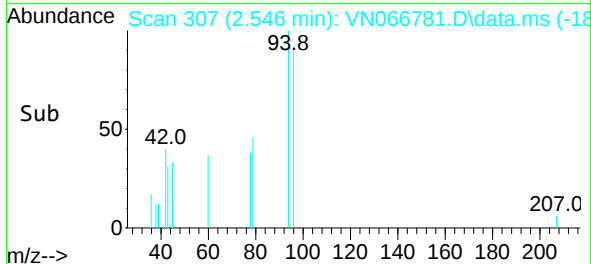
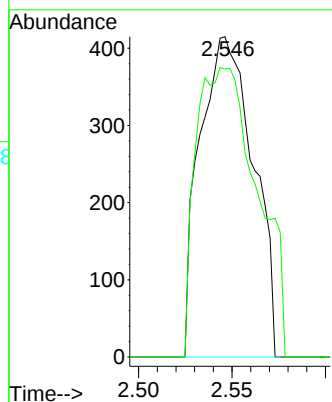


#5
Bromomethane
Concen: 0.25 ug/l
RT: 2.546 min Scan# 307
Delta R.T. 0.037 min
Lab File: VN066781.D
Acq: 27 Apr 2021 15:13

Instrument :
MSVOA_N
ClientSampleId :

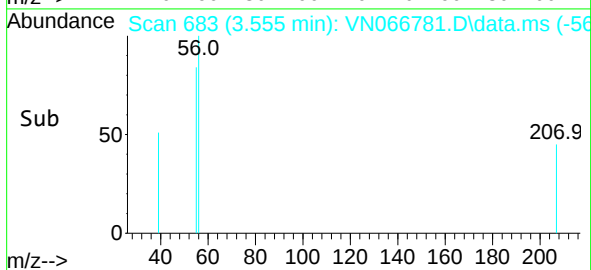
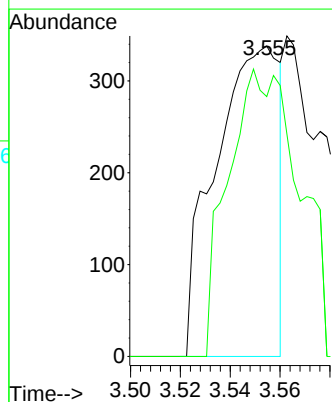
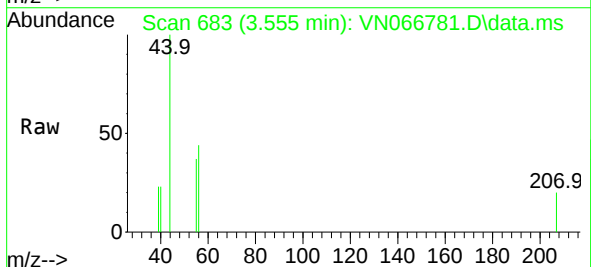


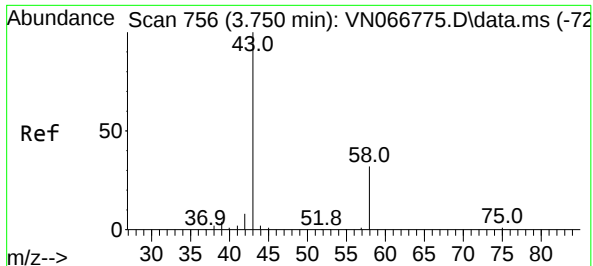
Tgt Ion: 94 Resp: 825
Ion Ratio Lower Upper
94 100
96 89.9 73.0 109.4



#13
Acrolein
Concen: 1.00 ug/l
RT: 3.555 min Scan# 683
Delta R.T. 0.008 min
Lab File: VN066781.D
Acq: 27 Apr 2021 15:13

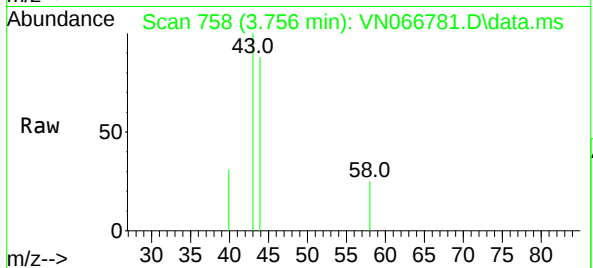
Tgt Ion: 56 Resp: 601
Ion Ratio Lower Upper
56 100
55 57.2 56.0 84.0



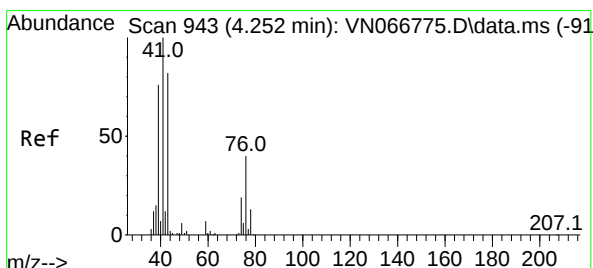
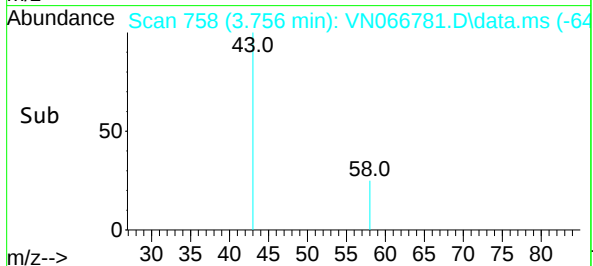
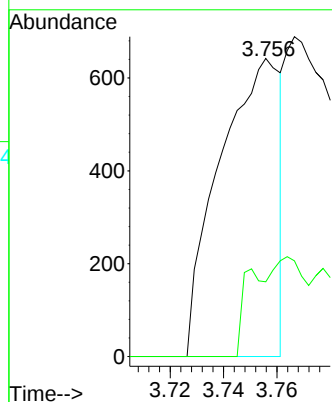


#16
Acetone
Concen: 0.57 ug/l
RT: 3.756 min Scan# 758
Delta R.T. 0.006 min
Lab File: VN066781.D
Acq: 27 Apr 2021 15:13

Instrument :
MSVOA_N
ClientSampled :

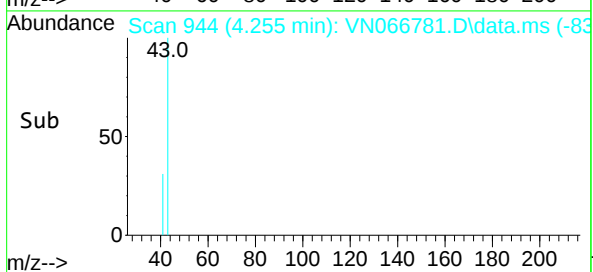
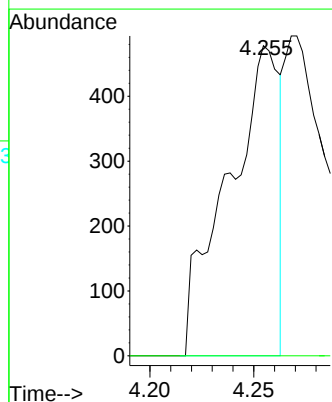
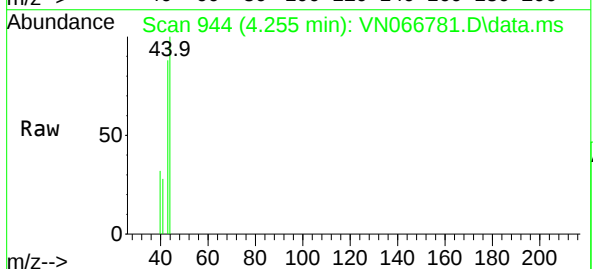


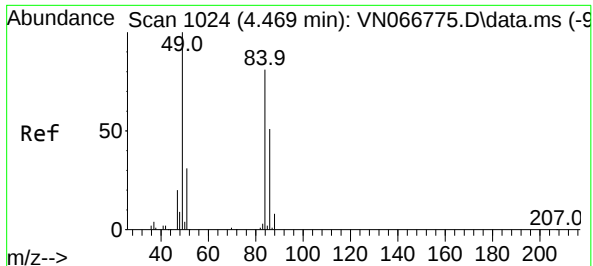
Tgt Ion: 43 Resp: 1007
Ion Ratio Lower Upper
43 100
58 25.1 27.0 40.6#



#18
Methyl Acetate
Concen: 1.28 ug/l
RT: 4.255 min Scan# 944
Delta R.T. 0.003 min
Lab File: VN066781.D
Acq: 27 Apr 2021 15:13

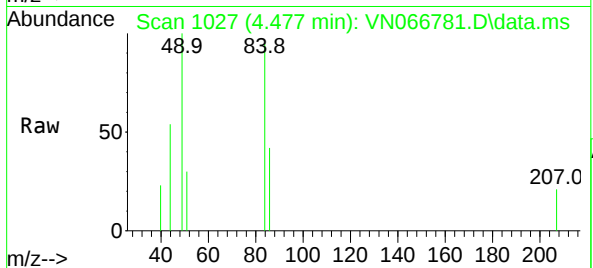
Tgt Ion: 43 Resp: 828
Ion Ratio Lower Upper
43 100
74 0.0 19.5 29.3#



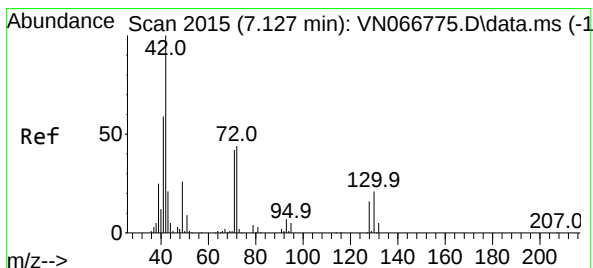
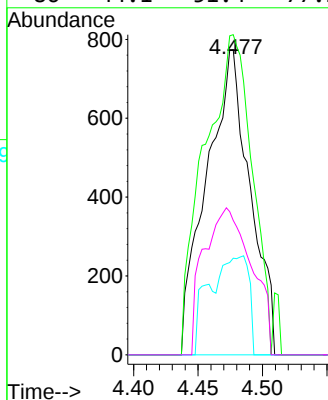
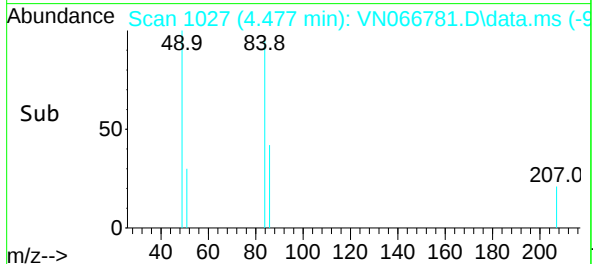


#20
Methylene Chloride
Concen: 0.41 ug/l
RT: 4.477 min Scan# 1027
Delta R.T. 0.008 min
Lab File: VN066781.D
Acq: 27 Apr 2021 15:13

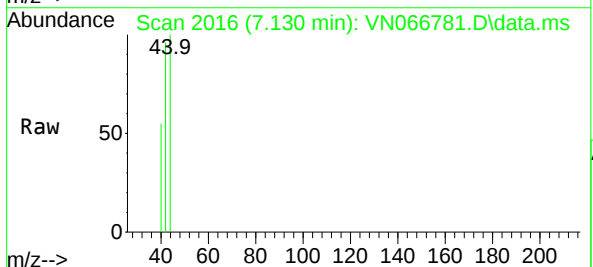
Instrument :
MSVOA_N
ClientSampled :



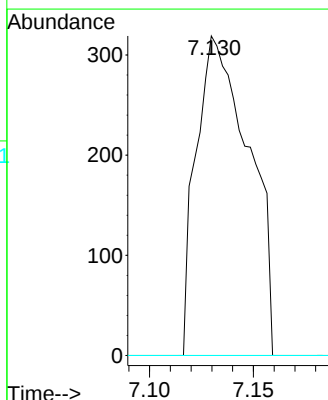
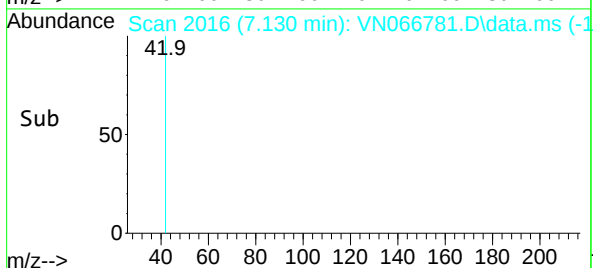
Tgt Ion:	84	Resp:	1816
Ion	Ratio	Lower	Upper
84	100		
49	104.9	94.6	141.8
51	31.7	29.9	44.9
86	44.1	51.4	77.2#

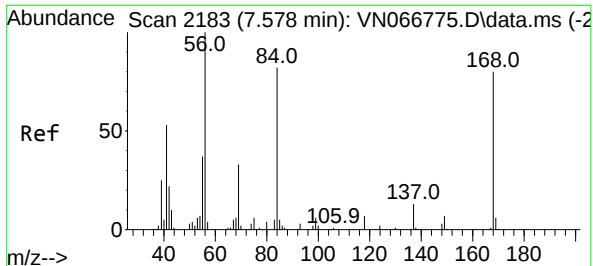


#29
Tetrahydrofuran
Concen: 0.33 ug/l
RT: 7.130 min Scan# 2016
Delta R.T. 0.003 min
Lab File: VN066781.D
Acq: 27 Apr 2021 15:13



Tgt Ion:	42	Resp:	562
Ion	Ratio	Lower	Upper
42	100		
72	0.0	36.6	55.0#
71	0.0	34.3	51.5#

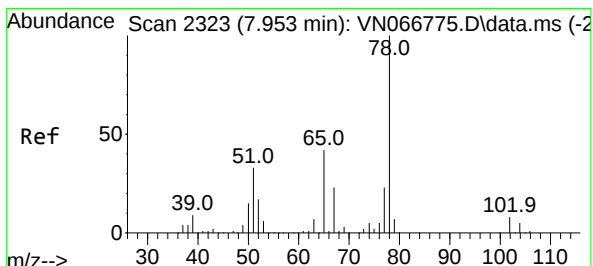
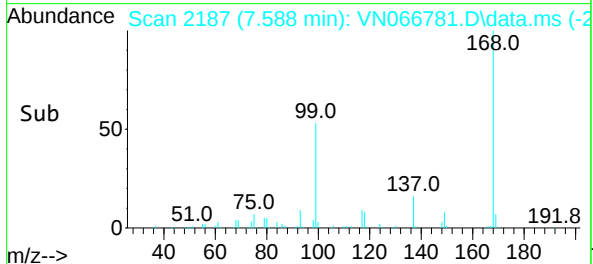
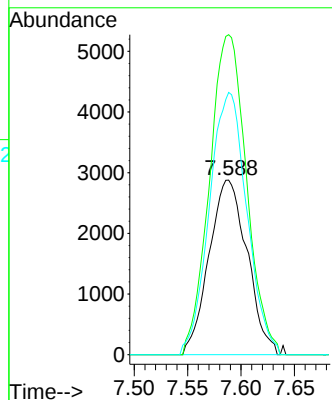
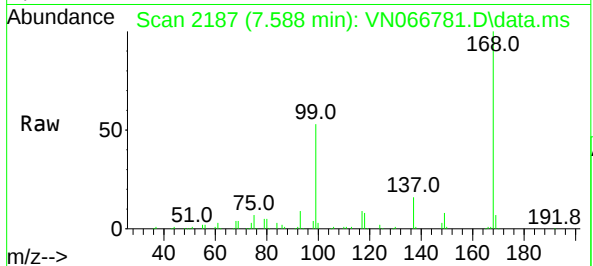




#31
Cyclohexane
Concen: 0.99 ug/l
RT: 7.588 min Scan# 2187
Delta R.T. 0.010 min
Lab File: VN066781.D
Acq: 27 Apr 2021 15:13

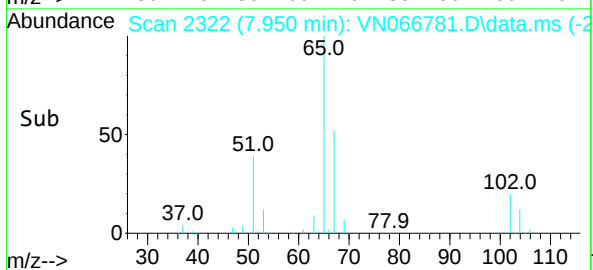
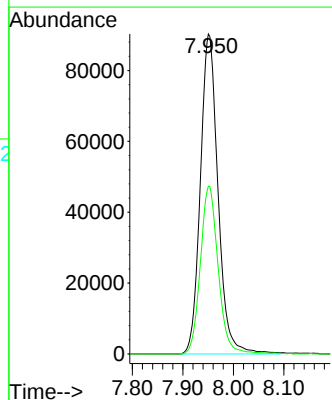
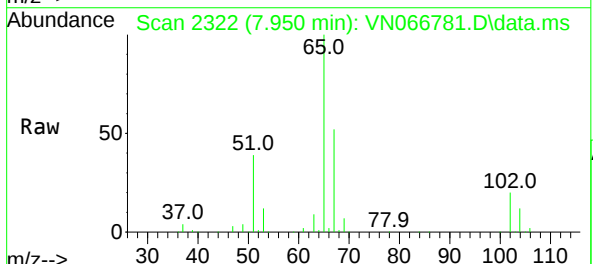
Instrument :
MSVOA_N
ClientSampled :

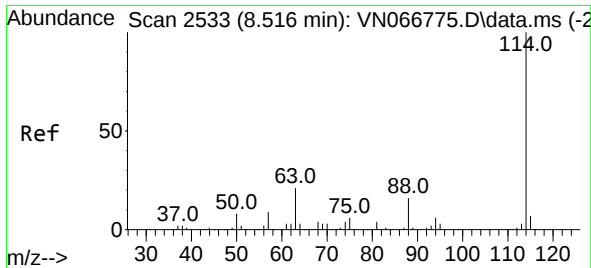
Tgt Ion: 56 Resp: 7148
Ion Ratio Lower Upper
56 100
69 183.3 26.6 39.8#
84 150.2 70.4 105.6#



#33
1,2-Dichloroethane-d4
Concen: 47.16 ug/l
RT: 7.950 min Scan# 2322
Delta R.T. -0.003 min
Lab File: VN066781.D
Acq: 27 Apr 2021 15:13

Tgt Ion: 65 Resp: 219321
Ion Ratio Lower Upper
65 100
67 52.8 0.0 107.2

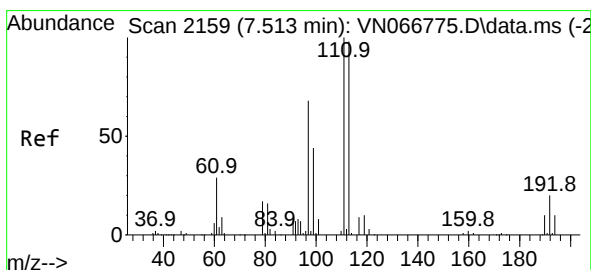
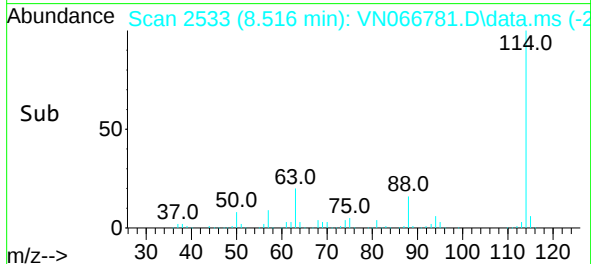
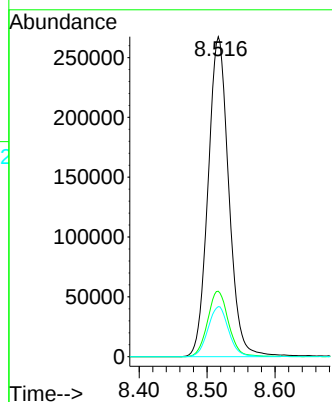
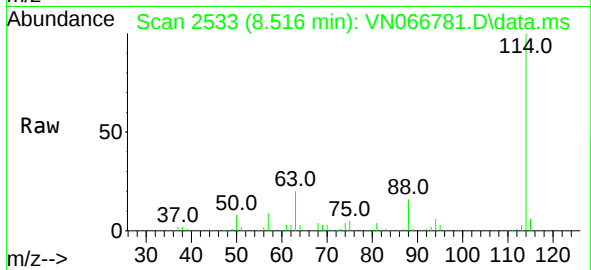




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.516 min Scan# 2533
Delta R.T. 0.000 min
Lab File: VN066781.D
Acq: 27 Apr 2021 15:13

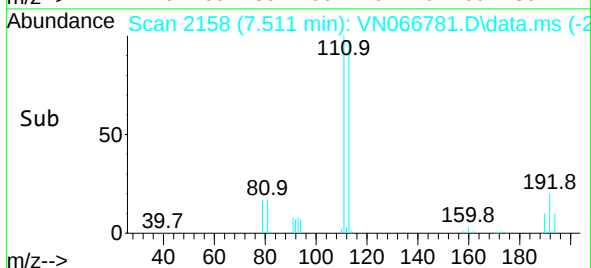
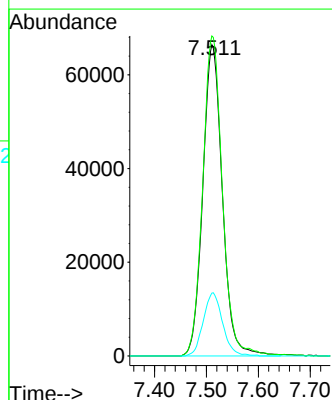
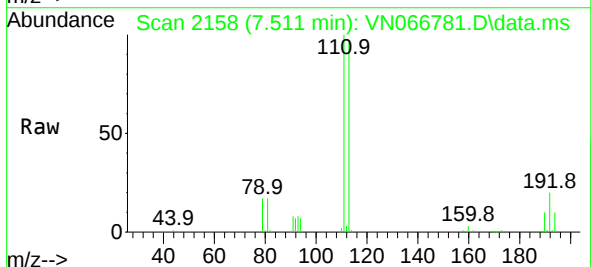
Instrument :
MSVOA_N
ClientSampleId :

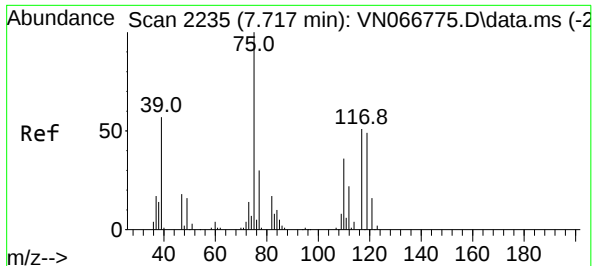
Tgt Ion:114 Resp: 565644
Ion Ratio Lower Upper
114 100
63 20.5 0.0 38.6
88 15.7 0.0 30.6



#35
Dibromofluoromethane
Concen: 49.84 ug/l
RT: 7.511 min Scan# 2158
Delta R.T. -0.002 min
Lab File: VN066781.D
Acq: 27 Apr 2021 15:13

Tgt Ion:113 Resp: 174039
Ion Ratio Lower Upper
113 100
111 102.9 82.2 123.2
192 19.9 15.4 23.0

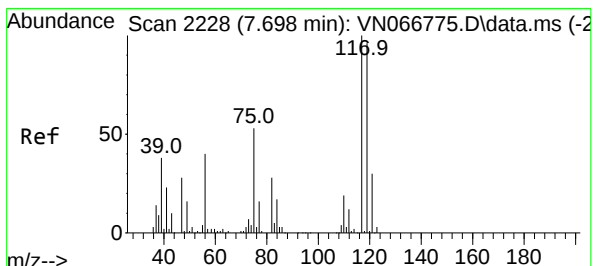
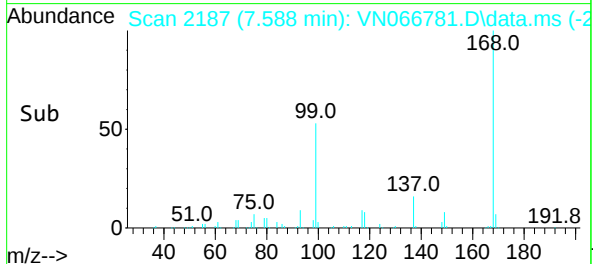
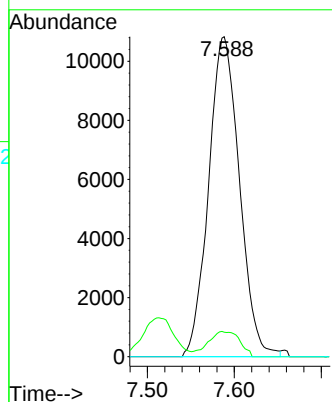
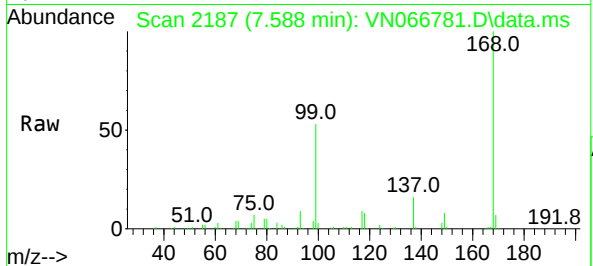




#36
1,1-Dichloropropene
Concen: 5.08 ug/l
RT: 7.588 min Scan# 2187
Delta R.T. -0.129 min
Lab File: VN066781.D
Acq: 27 Apr 2021 15:13

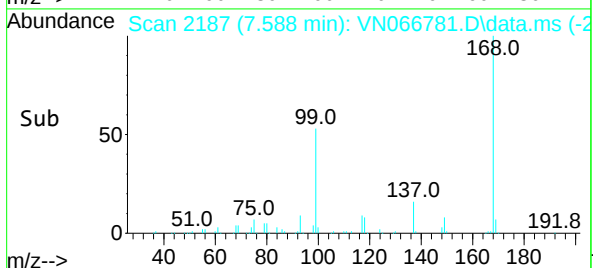
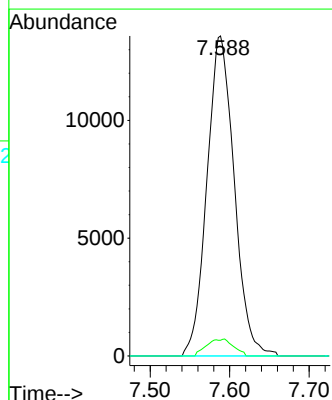
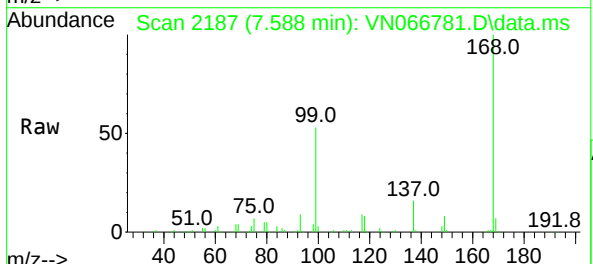
Instrument :
MSVOA_N
ClientSampled :

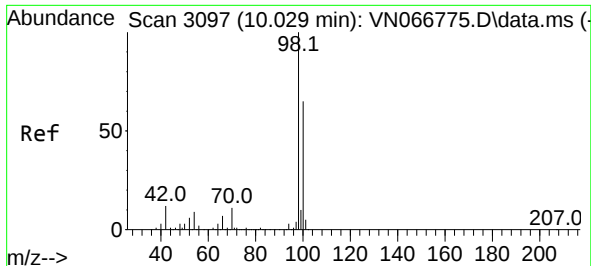
Tgt Ion: 75 Resp: 26699
Ion Ratio Lower Upper
75 100
110 8.0 18.2 54.6#
77 0.0 24.9 37.3#



#38
Carbon Tetrachloride
Concen: 6.42 ug/l
RT: 7.588 min Scan# 2187
Delta R.T. -0.110 min
Lab File: VN066781.D
Acq: 27 Apr 2021 15:13

Tgt Ion: 117 Resp: 32381
Ion Ratio Lower Upper
117 100
119 4.9 76.0 114.0#
121 0.0 24.5 36.7#

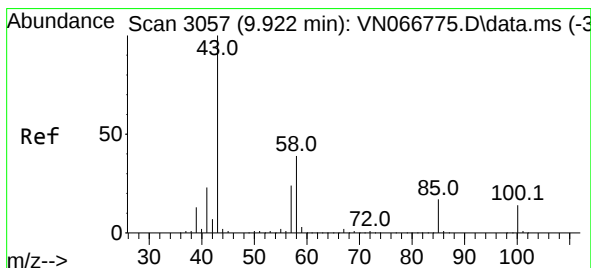
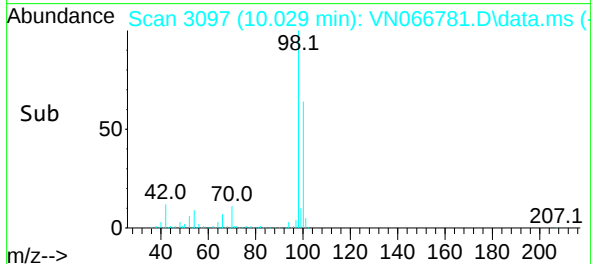
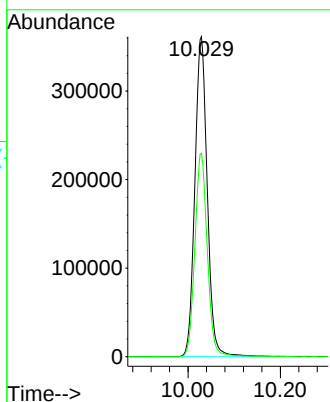
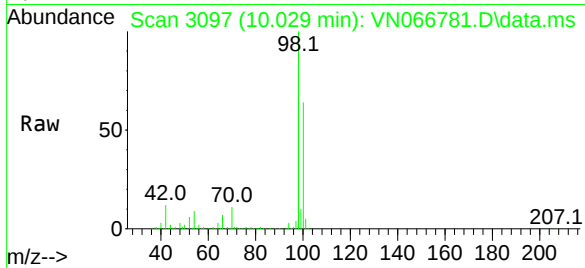




#50
Toluene-d8
Concen: 49.24 ug/l
RT: 10.029 min Scan# 3097
Delta R.T. -0.000 min
Lab File: VN066781.D
Acq: 27 Apr 2021 15:13

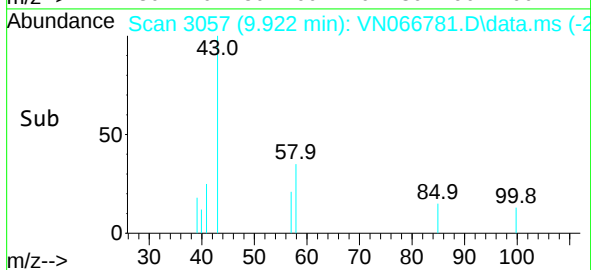
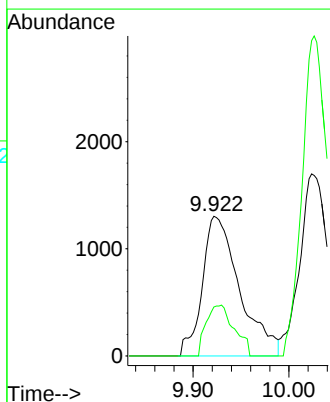
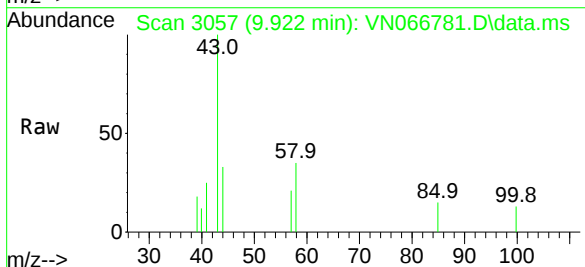
Instrument :
MSVOA_N
ClientSampled :

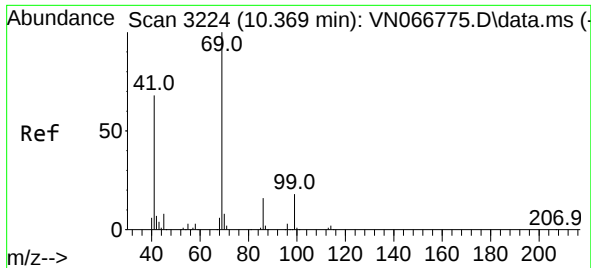
Tgt Ion: 98 Resp: 674786
Ion Ratio Lower Upper
98 100
100 63.8 50.5 75.7



#51
4-Methyl-2-Pentanone
Concen: 0.73 ug/l
RT: 9.922 min Scan# 3057
Delta R.T. -0.000 min
Lab File: VN066781.D
Acq: 27 Apr 2021 15:13

Tgt Ion: 43 Resp: 3538
Ion Ratio Lower Upper
43 100
58 27.1 32.5 48.7#

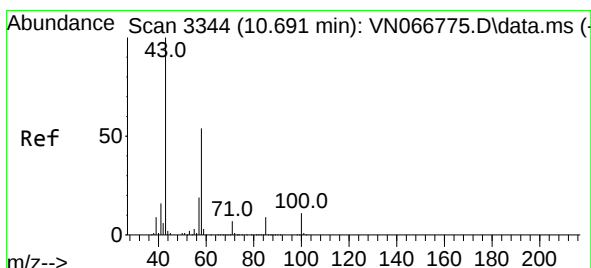
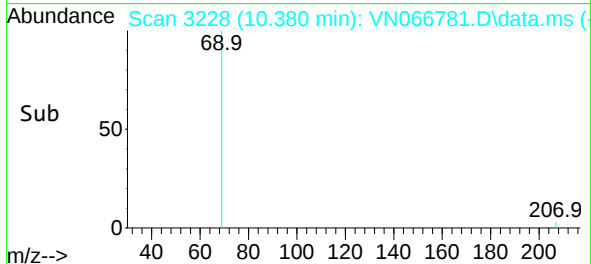
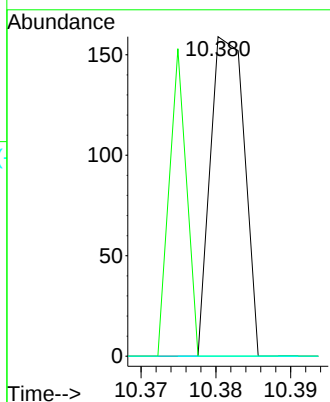
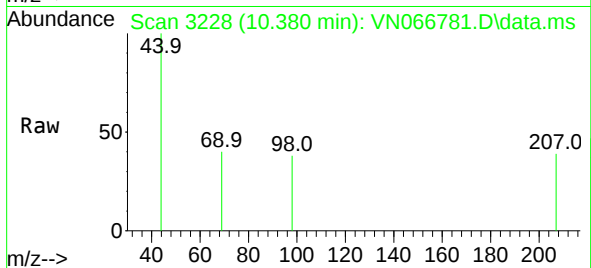




#56
Ethyl methacrylate
Concen: 3.18 ug/l
RT: 10.380 min Scan# 3228
Delta R.T. 0.011 min
Lab File: VN066781.D
Acq: 27 Apr 2021 15:13

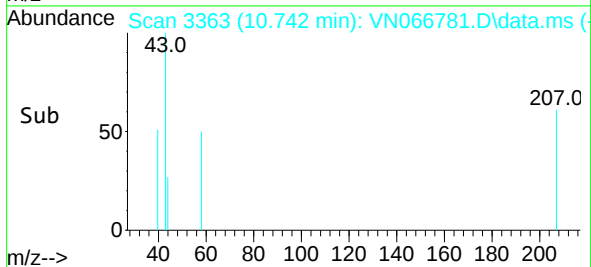
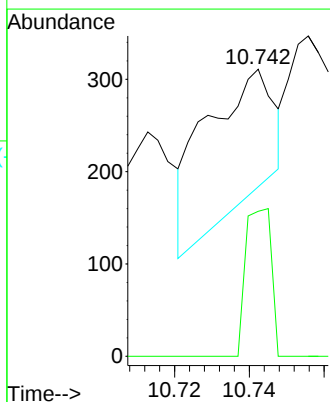
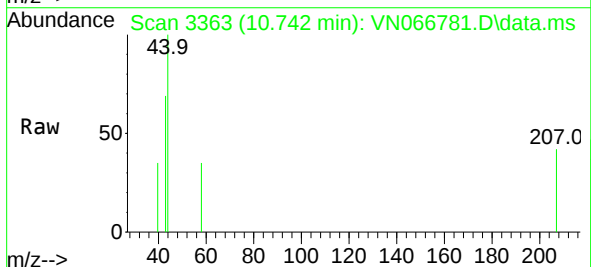
Instrument :
MSVOA_N
ClientSampled :

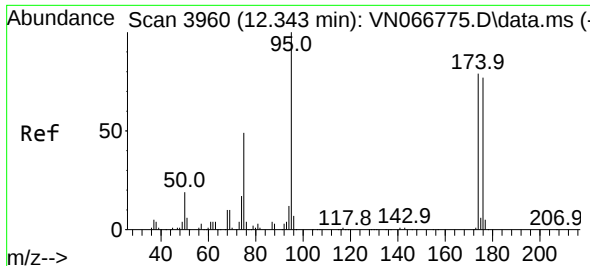
Tgt Ion: 69 Resp: 50
Ion Ratio Lower Upper
69 100
41 50.0 49.6 74.4
39 0.0 28.0 42.0#



#59
2-Hexanone
Concen: 19.59 ug/l
RT: 10.742 min Scan# 3363
Delta R.T. 0.051 min
Lab File: VN066781.D
Acq: 27 Apr 2021 15:13

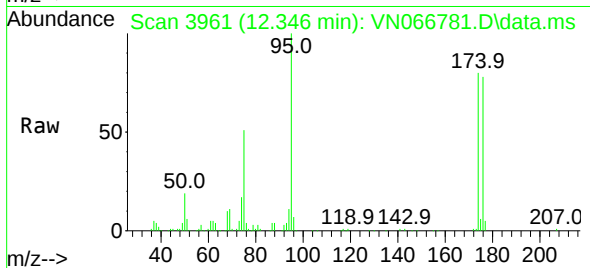
Tgt Ion: 43 Resp: 185
Ion Ratio Lower Upper
43 100
58 40.5 28.1 84.3



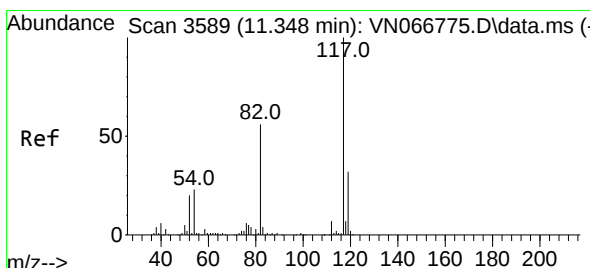
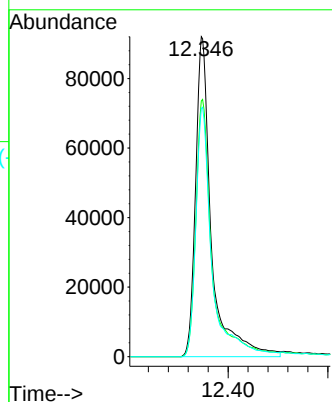
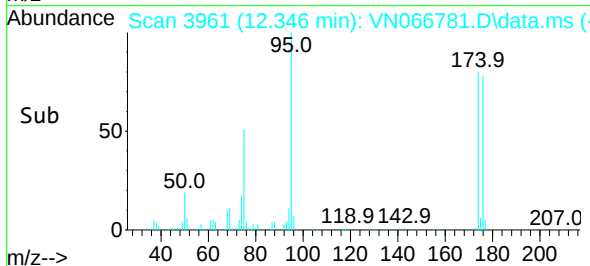


#62
4-Bromofluorobenzene
Concen: 44.06 ug/l
RT: 12.346 min Scan# 3961
Delta R.T. 0.003 min
Lab File: VN066781.D
Acq: 27 Apr 2021 15:13

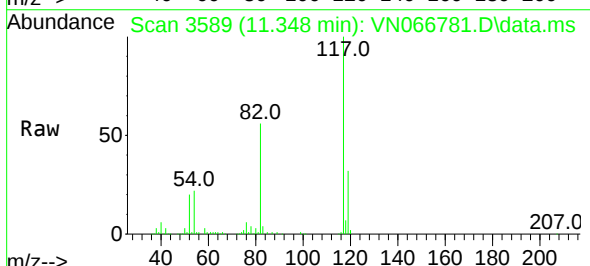
Instrument :
MSVOA_N
ClientSampleId :



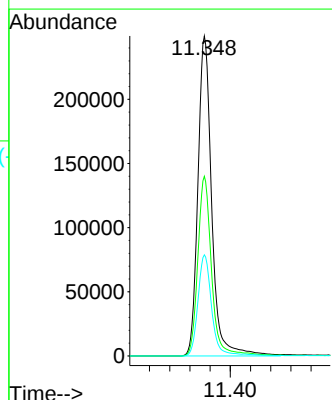
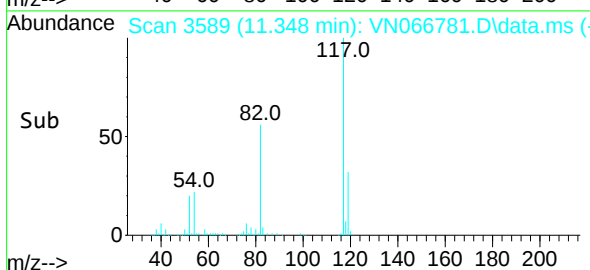
Tgt Ion: 95 Resp: 204298
Ion Ratio Lower Upper
95 100
174 81.8 0.0 169.0
176 78.8 0.0 162.4

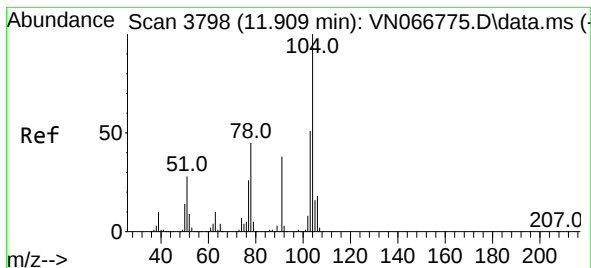


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.348 min Scan# 3589
Delta R.T. 0.000 min
Lab File: VN066781.D
Acq: 27 Apr 2021 15:13



Tgt Ion: 117 Resp: 473663
Ion Ratio Lower Upper
117 100
82 56.2 43.7 65.5
119 31.6 26.1 39.1





#70

Styrene

Concen: 3.09 ug/l

RT: 11.936 min Scan# 3808

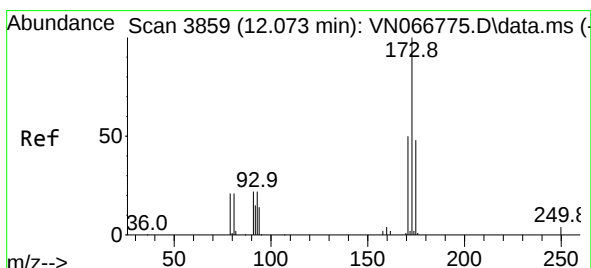
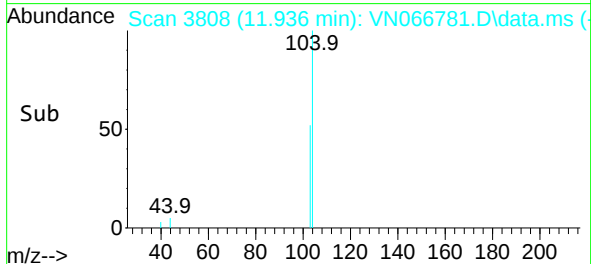
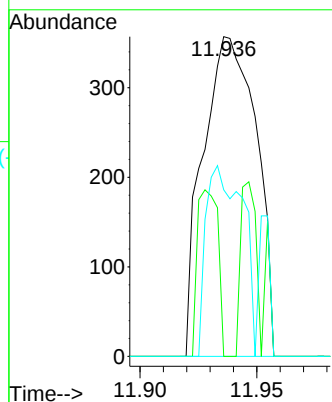
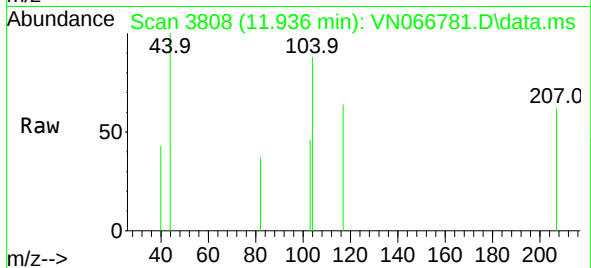
Delta R.T. 0.027 min

Lab File: VN066781.D

Acq: 27 Apr 2021 15:13

Tgt Ion:	104	Resp:	566
Ion Ratio	Lower	Upper	
104	100		
78	20.1	39.0	58.4#
103	41.2	44.5	66.7#

Instrument :
MSVOA_N
ClientSampleId :



#71

Bromoform

Concen: 0.43 ug/l

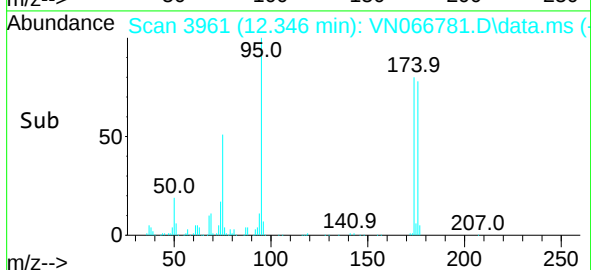
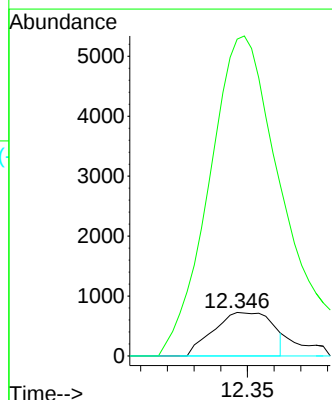
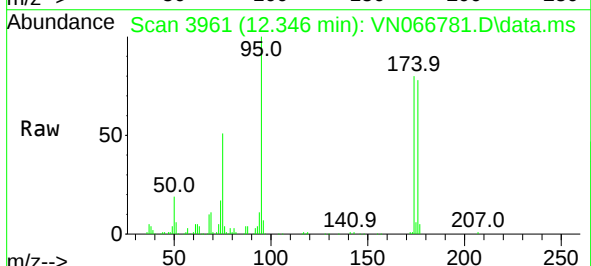
RT: 12.346 min Scan# 3961

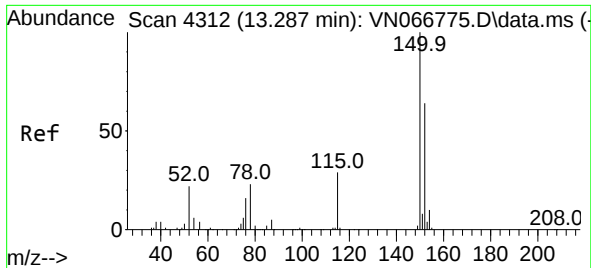
Delta R.T. 0.273 min

Lab File: VN066781.D

Acq: 27 Apr 2021 15:13

Tgt Ion:	173	Resp:	1117
Ion Ratio	Lower	Upper	
173	100		
175	756.6	23.8	71.2#
254	0.0	0.0	0.0

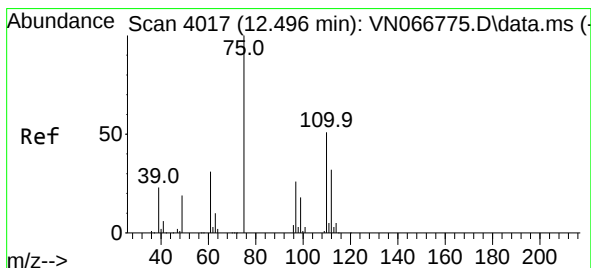
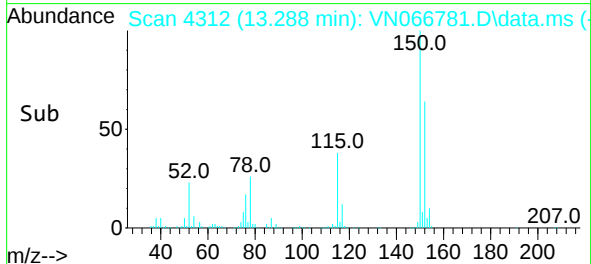
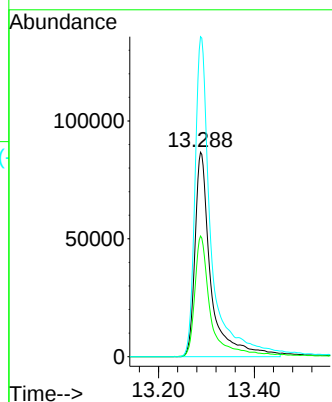
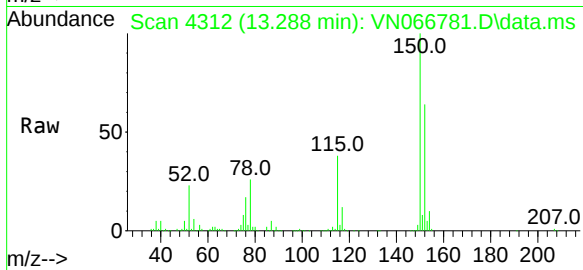




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.288 min Scan# 4312
Delta R.T. 0.000 min
Lab File: VN066781.D
Acq: 27 Apr 2021 15:13

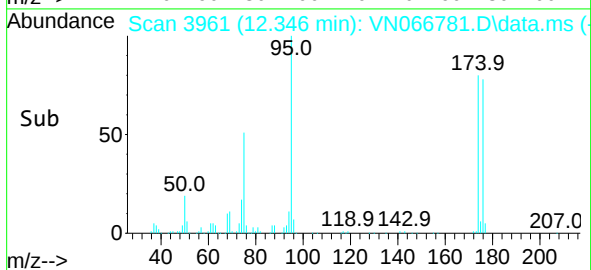
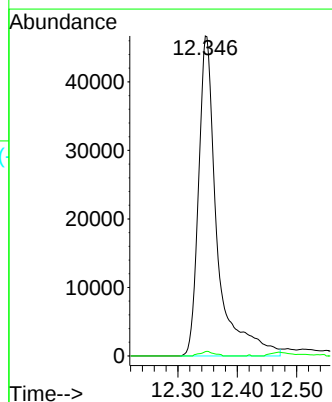
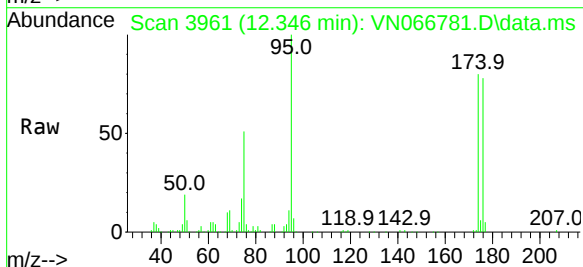
Instrument :
MSVOA_N
ClientSampled :

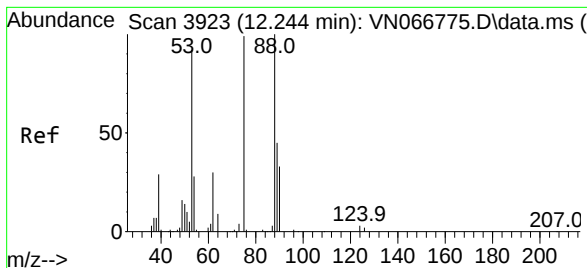
Tgt Ion:152 Resp: 201446
Ion Ratio Lower Upper
152 100
115 56.5 28.5 85.6
150 159.1 0.0 347.6



#76
1,2,3-Trichloropropane
Concen: 23.96 ug/l
RT: 12.346 min Scan# 3961
Delta R.T. -0.150 min
Lab File: VN066781.D
Acq: 27 Apr 2021 15:13

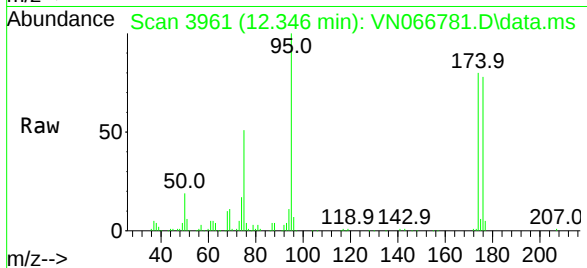
Tgt Ion: 75 Resp: 101737
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#



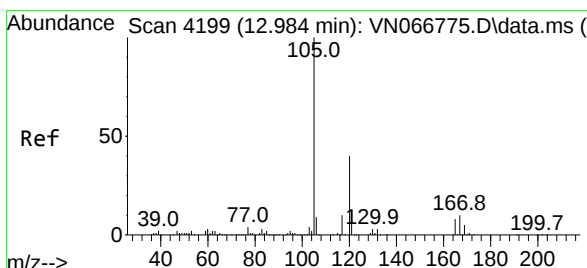
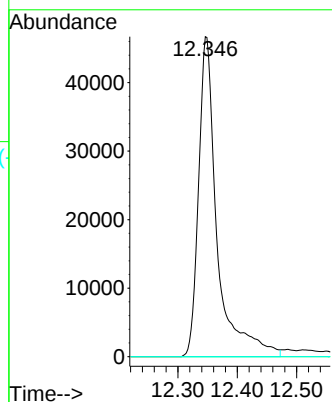
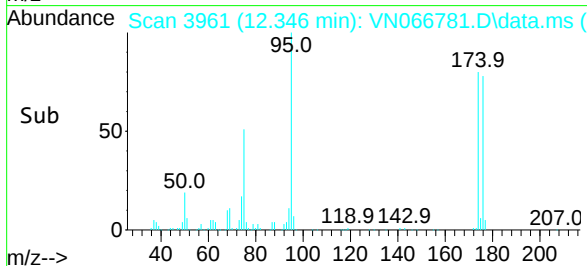


#81
trans-1,4-Dichloro-2-butene
Concen: 64.53 ug/l
RT: 12.346 min Scan# 3961
Delta R.T. 0.102 min
Lab File: VN066781.D
Acq: 27 Apr 2021 15:13

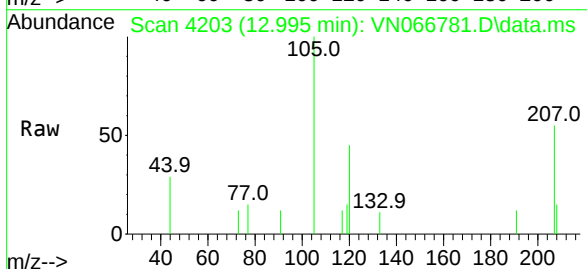
Instrument :
MSVOA_N
ClientSampleId :



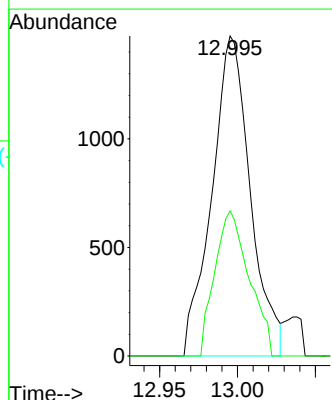
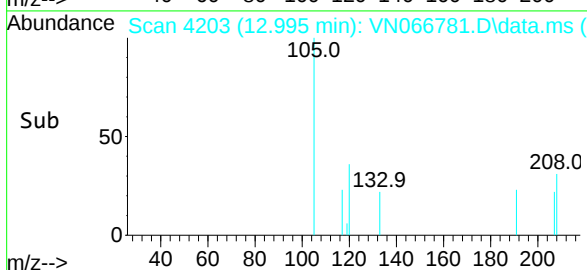
Tgt Ion: 75 Resp: 101737
Ion Ratio Lower Upper
75 100
53 0.0 74.6 111.8#
89 0.0 35.8 53.8#

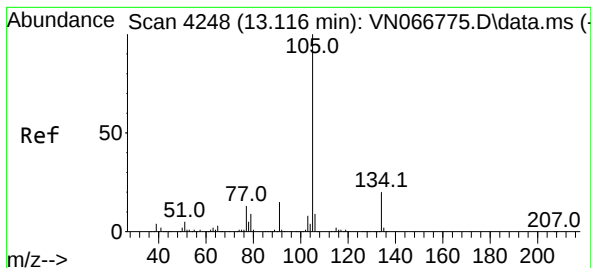


#84
1,2,4-Trimethylbenzene
Concen: 0.22 ug/l
RT: 12.995 min Scan# 4203
Delta R.T. 0.011 min
Lab File: VN066781.D
Acq: 27 Apr 2021 15:13



Tgt Ion: 105 Resp: 2530
Ion Ratio Lower Upper
105 100
120 40.5 22.4 67.0

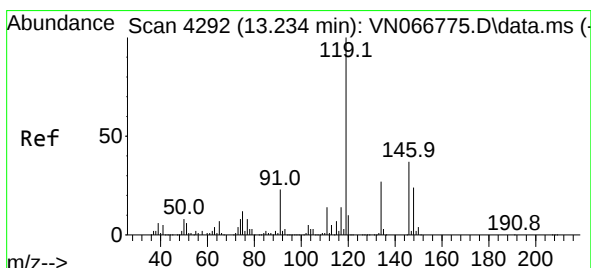
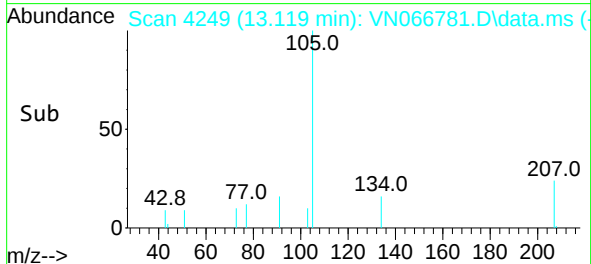
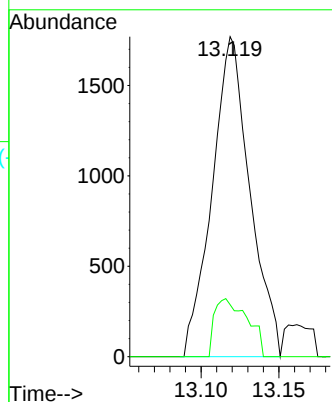
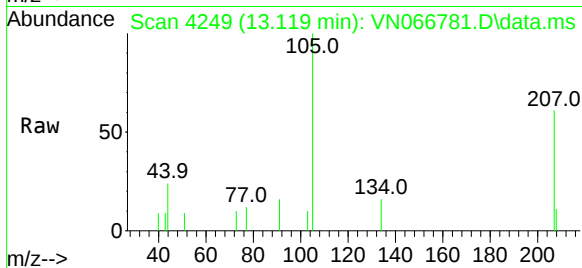




#85
 sec-Butylbenzene
 Concen: 0.22 ug/l
 RT: 13.119 min Scan# 4249
 Delta R.T. 0.003 min
 Lab File: VN066781.D
 Acq: 27 Apr 2021 15:13

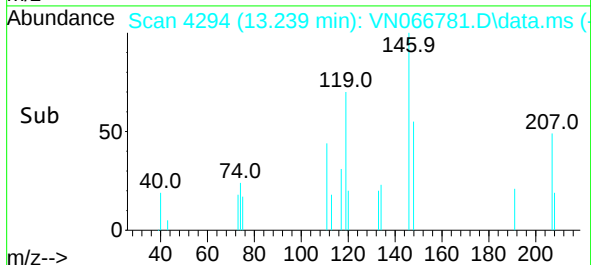
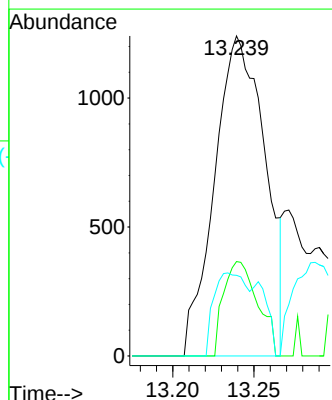
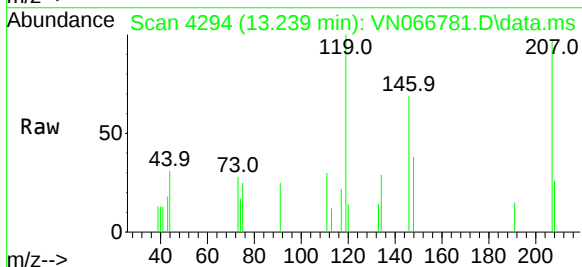
Instrument :
 MSVOA_N
 ClientSampled :

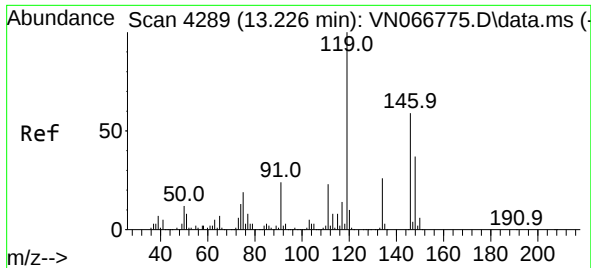
Tgt Ion:105 Resp: 2987
 Ion Ratio Lower Upper
 105 100
 134 15.7 10.0 30.0



#86
 p-Isopropyltoluene
 Concen: 0.23 ug/l
 RT: 13.239 min Scan# 4294
 Delta R.T. 0.005 min
 Lab File: VN066781.D
 Acq: 27 Apr 2021 15:13

Tgt Ion:119 Resp: 2682
 Ion Ratio Lower Upper
 119 100
 134 19.9 13.3 39.8
 91 16.9 11.8 35.3

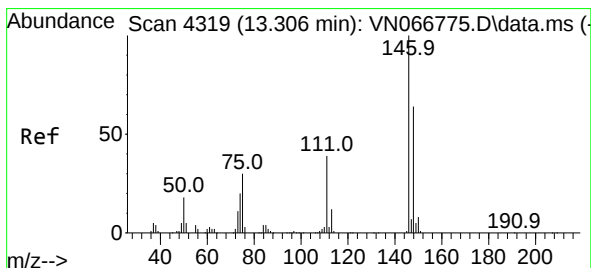
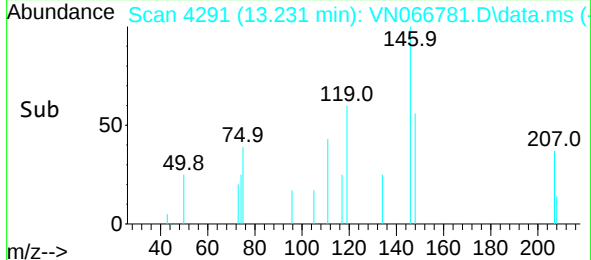
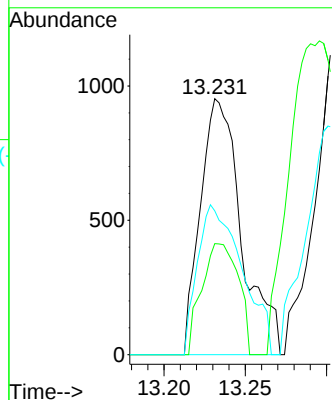
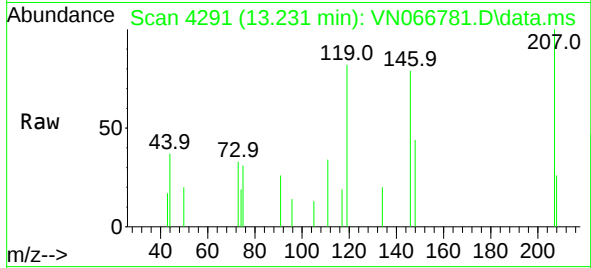




#87
1,3-Dichlorobenzene
Concen: 0.27 ug/l
RT: 13.231 min Scan# 4291
Delta R.T. 0.005 min
Lab File: VN066781.D
Acq: 27 Apr 2021 15:13

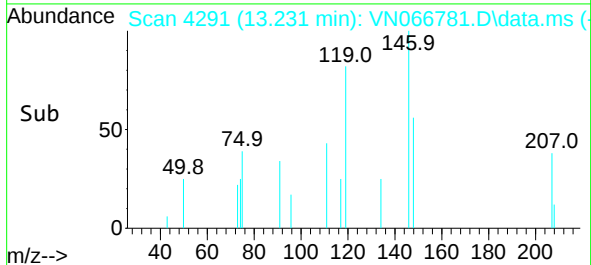
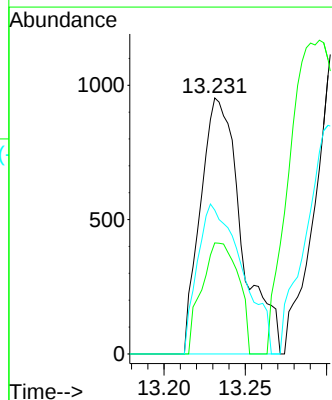
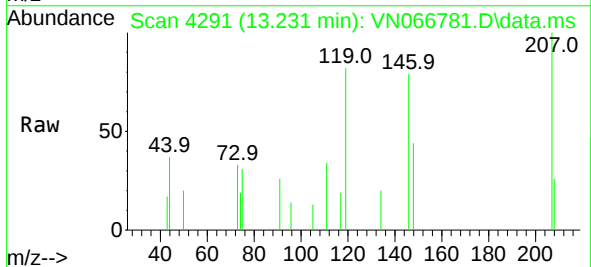
Instrument :
MSVOA_N
ClientSampled :

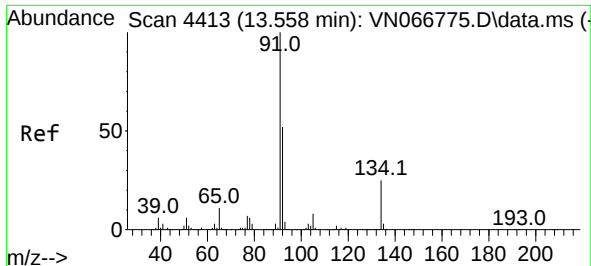
Tgt Ion:146 Resp: 1679
Ion Ratio Lower Upper
146 100
111 38.5 19.5 58.5
148 63.5 32.3 96.9



#88
1,4-Dichlorobenzene
Concen: 0.26 ug/l
RT: 13.231 min Scan# 4291
Delta R.T. -0.075 min
Lab File: VN066781.D
Acq: 27 Apr 2021 15:13

Tgt Ion:146 Resp: 1679
Ion Ratio Lower Upper
146 100
111 38.5 19.0 57.0
148 63.5 31.8 95.3





#89

n-Butylbenzene

Concen: 0.40 ug/l

RT: 13.601 min Scan# 4429

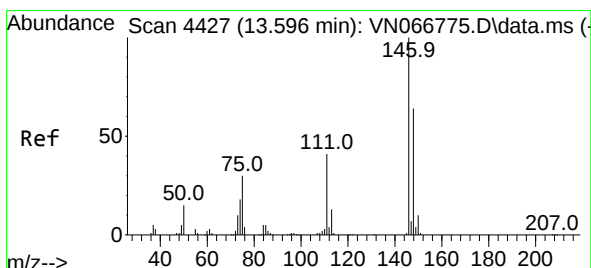
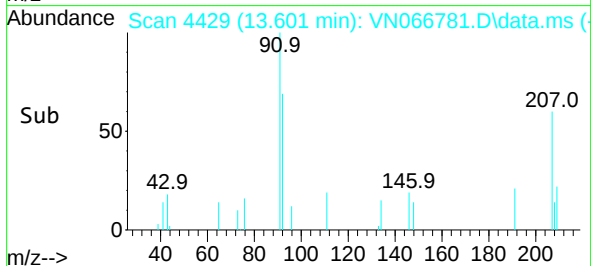
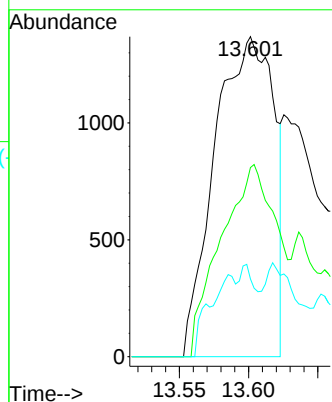
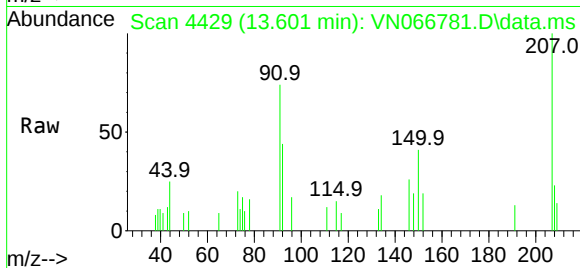
Delta R.T. 0.043 min

Lab File: VN066781.D

Acq: 27 Apr 2021 15:13

Tgt Ion: 91	Resp: 4054
Ion Ratio	Lower Upper
91	100
92	56.6 26.1 78.3
134	6.7 13.0 38.9#

Instrument :
MSVOA_N
ClientSampled :



#91

1,2-Dichlorobenzene

Concen: 0.31 ug/l

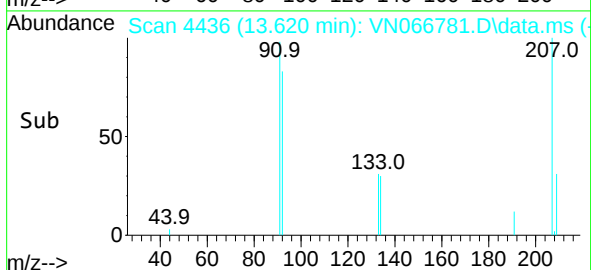
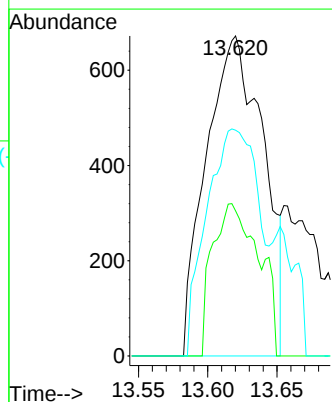
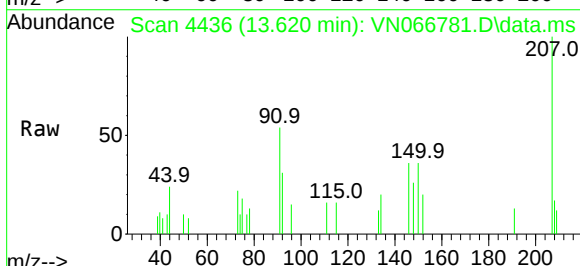
RT: 13.620 min Scan# 4436

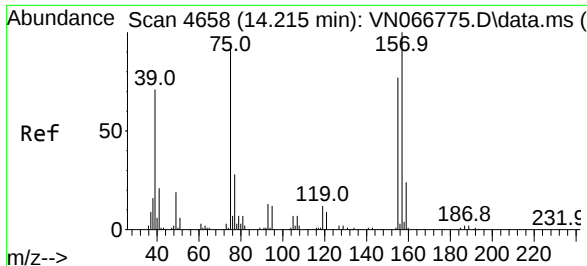
Delta R.T. 0.024 min

Lab File: VN066781.D

Acq: 27 Apr 2021 15:13

Tgt Ion: 146	Resp: 1927
Ion Ratio	Lower Upper
146	100
111	33.9 20.1 60.3
148	64.8 32.0 96.0

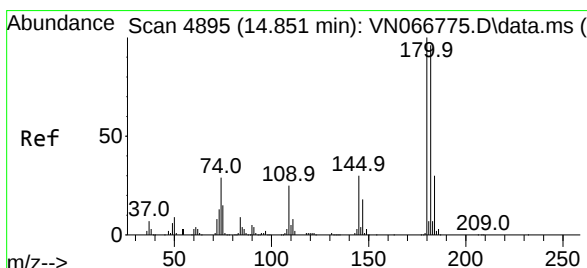
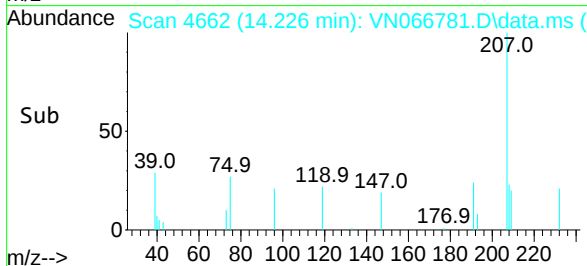
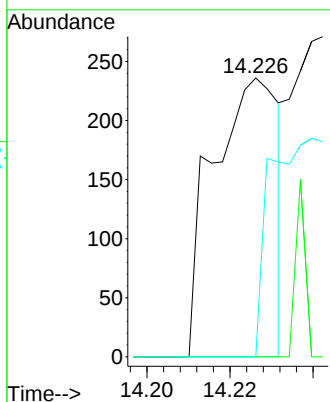
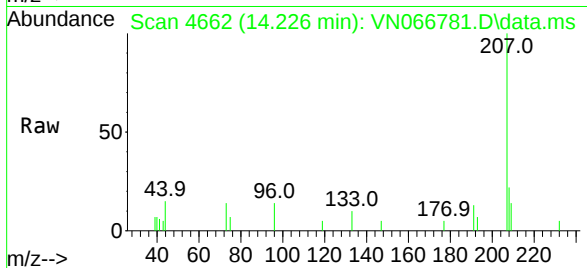




#92
1,2-Dibromo-3-Chloropropane
Concen: 0.30 ug/l
RT: 14.226 min Scan# 4662
Delta R.T. 0.011 min
Lab File: VN066781.D
Acq: 27 Apr 2021 15:13

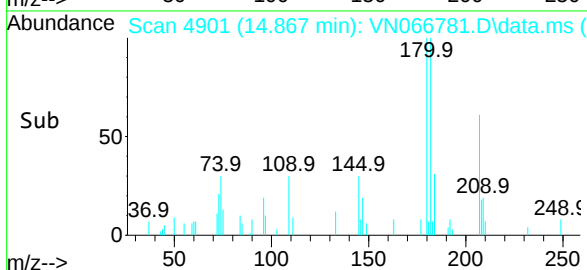
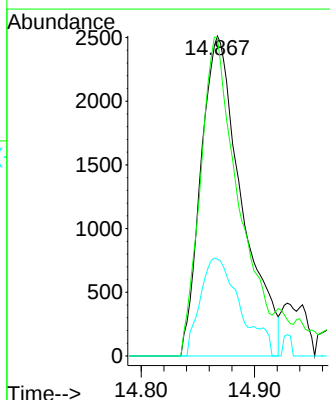
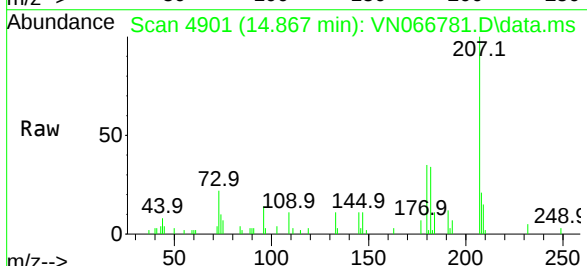
Instrument :
MSVOA_N
ClientSampleId :

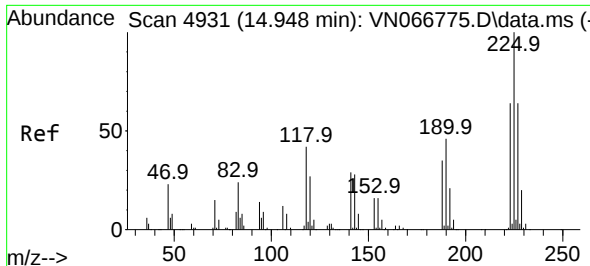
Tgt Ion: 75 Resp: 257
Ion Ratio Lower Upper
75 100
155 0.0 44.1 132.4#
157 0.0 56.0 168.2#



#93
1,2,4-Trichlorobenzene
Concen: 1.80 ug/l
RT: 14.867 min Scan# 4901
Delta R.T. 0.016 min
Lab File: VN066781.D
Acq: 27 Apr 2021 15:13

Tgt Ion:180 Resp: 6248
Ion Ratio Lower Upper
180 100
182 93.3 47.3 142.0
145 30.1 15.6 46.8

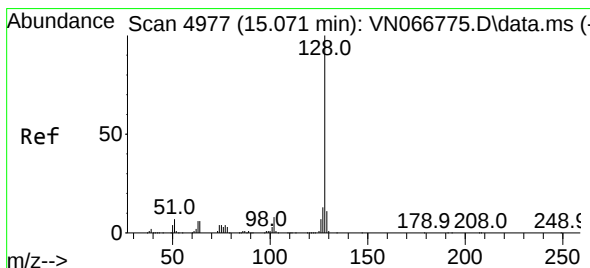
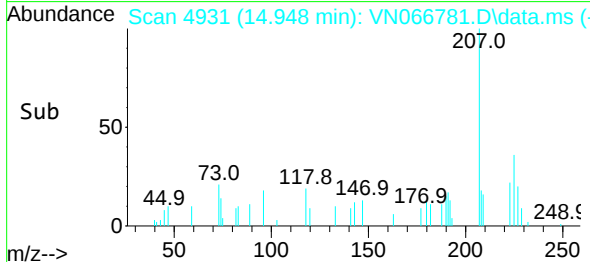
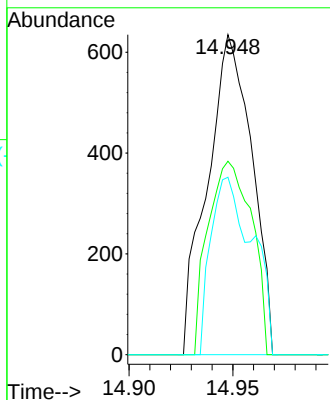
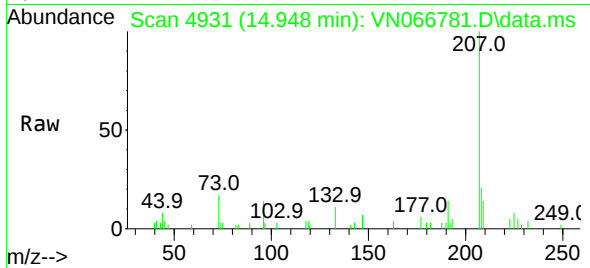




#94
Hexachlorobutadiene
Concen: 0.49 ug/l
RT: 14.948 min Scan# 4931
Delta R.T. -0.000 min
Lab File: VN066781.D
Acq: 27 Apr 2021 15:13

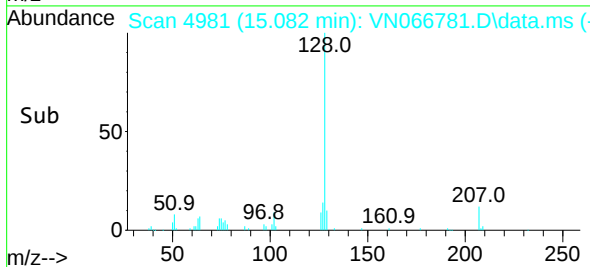
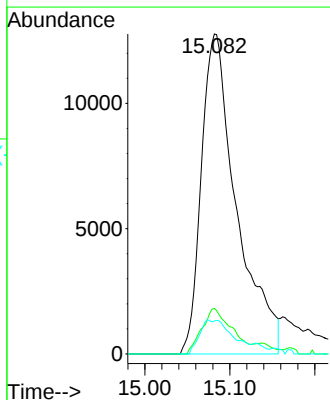
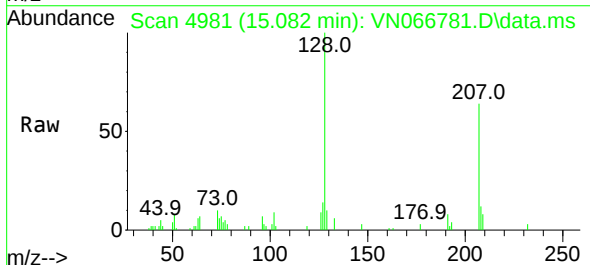
Instrument :
MSVOA_N
ClientSampleId :

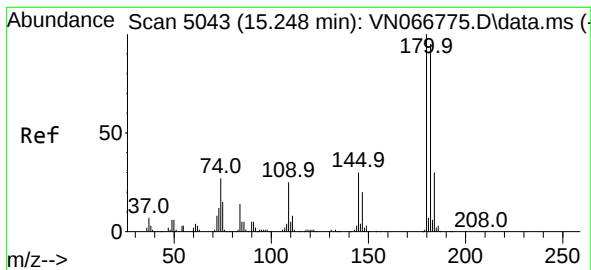
Tgt Ion:	225	Resp:	948
Ion Ratio	Lower	Upper	
225	100		
223	59.3	31.9	95.9
227	51.6	31.6	95.0



#95
Naphthalene
Concen: 4.11 ug/l
RT: 15.082 min Scan# 4981
Delta R.T. 0.011 min
Lab File: VN066781.D
Acq: 27 Apr 2021 15:13

Tgt Ion:	128	Resp:	36729
Ion Ratio	Lower	Upper	
128	100		
127	12.1	10.2	15.2
129	3.9	8.6	13.0





#96
 1,2,3-Trichlorobenzene
 Concen: 2.71 ug/l
 RT: 15.253 min Scan# 5045
 Delta R.T. 0.005 min
 Lab File: VN066781.D
 Acq: 27 Apr 2021 15:13

Instrument :
 MSVOA_N
 ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.9	47.4	142.3
145	30.4	16.5	49.5

