

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040721\
 Data File : VN066520.D
 Acq On : 7 Apr 2021 20:57
 Operator : JC/MD
 Sample : PB135583ZH#09
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 08 01:59:00 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N040621W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 06 15:38:34 2021
 Response via : Initial Calibration

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

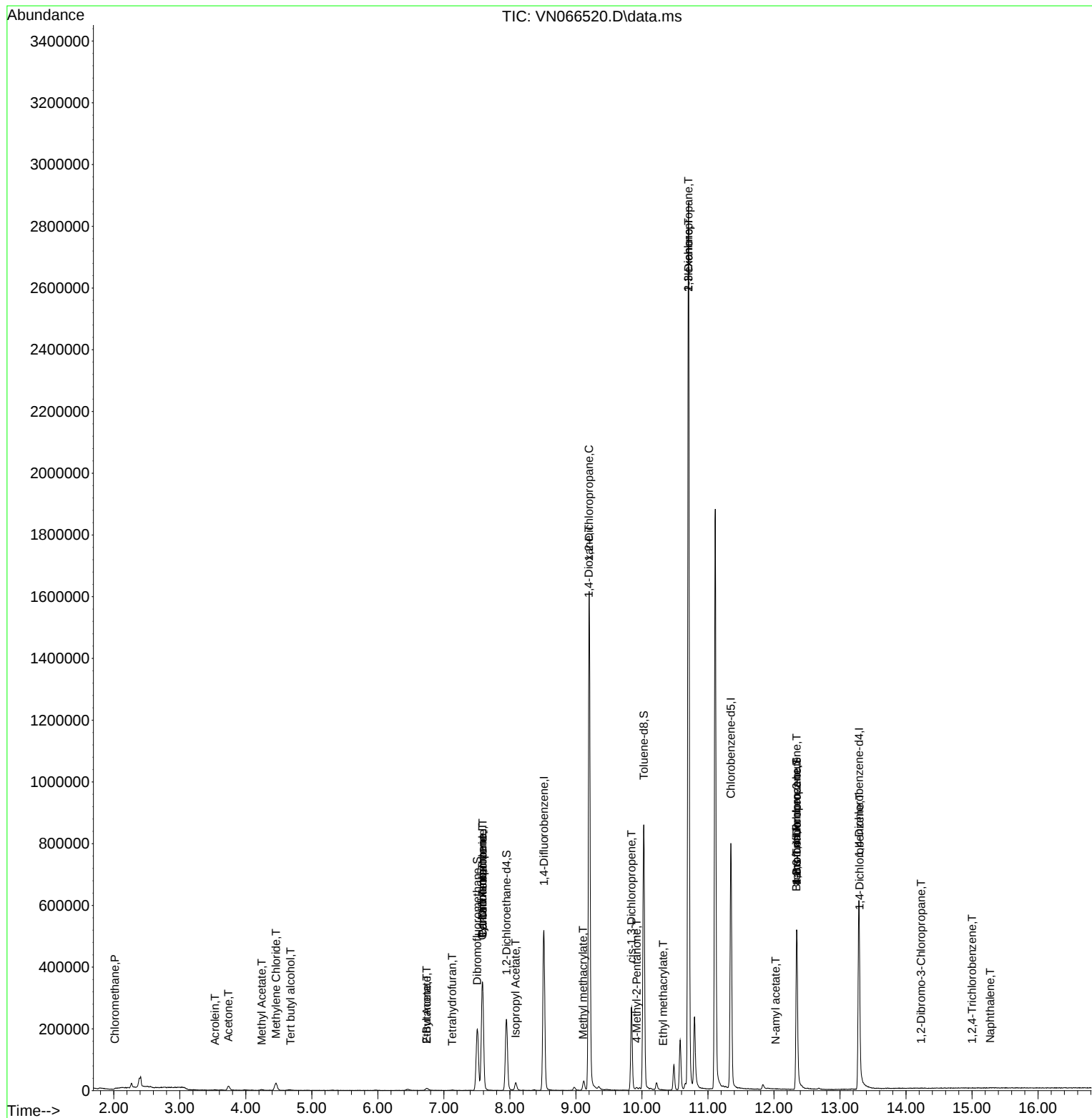
Internal Standards						
1) Pentafluorobenzene	7.585	168	300730	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.515	114	458768	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.347	117	459667	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.289	152	193587	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.949	65	194753	49.17	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	98.34%		
35) Dibromofluoromethane	7.507	113	153273	49.02	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.04%		
50) Toluene-d8	10.028	98	591772	49.81	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	99.62%		
62) 4-Bromofluorobenzene	12.345	95	185868	48.24	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	96.48%		
Target Compounds						Qvalue
3) Chloromethane	2.017	50	1057	0.24	ug/l	97
11) Tert butyl alcohol	4.680	59	478	0.75	ug/l #	85
13) Acrolein	3.532	56	296	4.51	ug/l #	27
16) Acetone	3.736	43	23238	14.00	ug/l	99
18) Methyl Acetate	4.240	43	4212	1.01	ug/l #	88
20) Methylene Chloride	4.457	84	16619	4.66	ug/l	93
25) 2-Butanone	6.740	43	11259	4.52	ug/l	98
29) Tetrahydrofuran	7.126	42	539	0.32	ug/l	89
31) Cyclohexane	7.582	56	6113	1.12	ug/l #	29
36) 1,1-Dichloropropene	7.585	75	22654	5.08	ug/l #	47
37) Ethyl Acetate	6.740	43	11259	2.04	ug/l #	69
38) Carbon Tetrachloride	7.587	117	27935	6.18	ug/l #	17
43) Isopropyl Acetate	8.089	43	30386	3.56	ug/l	98
45) 1,2-Dichloropropane	9.199	63	1979	0.53	ug/l #	43
48) Methyl methacrylate	9.108	41	7030	1.85	ug/l #	12
49) 1,4-Dioxane	9.196	88	51	0.99	ug/l #	1
51) 4-Methyl-2-Pentanone	9.921	43	4940	0.97	ug/l	94
54) cis-1,3-Dichloropropene	9.843	75	47456	8.34	ug/l #	61
56) Ethyl methacrylate	10.320	69	100	3.74	ug/l #	22
57) 1,3-Dichloropropane	10.706	76	28713	5.02	ug/l #	42
59) 2-Hexanone	10.706	43	409234	110.27	ug/l #	53
71) Bromoform	12.342	173	862	0.29	ug/l #	1
74) N-amyl acetate	12.026	43	352	12.78	ug/l #	59
76) 1,2,3-Trichloropropane	12.345	75	92233	21.12	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.345	75	92233	59.00	ug/l #	12
88) 1,4-Dichlorobenzene	13.297	146	61	1.01	ug/l #	1
92) 1,2-Dibromo-3-Chloropr...	14.228	75	52	0.38	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.000	180	57	2.25	ug/l #	12
95) Naphthalene	15.276	128	392	2.01	ug/l #	69

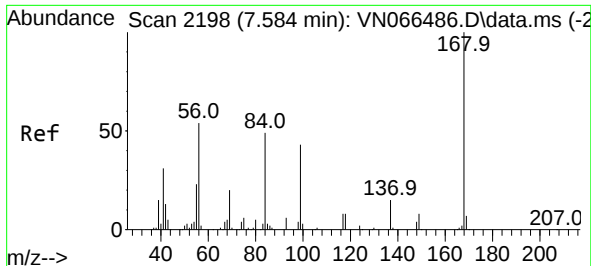
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040721\
Data File : VN066520.D
Acq On : 7 Apr 2021 20:57
Operator : JC/MD
Sample : PB135583ZH#09
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Apr 08 01:59:00 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N040621W.M
Quant Title : SW846 8260
QLast Update : Tue Apr 06 15:38:34 2021
Response via : Initial Calibration

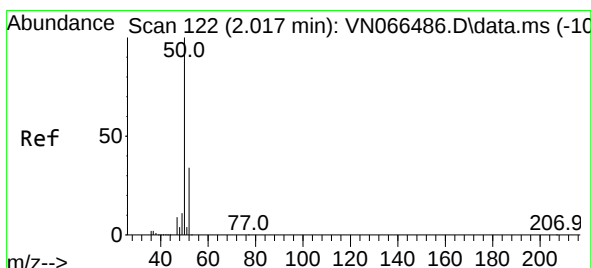
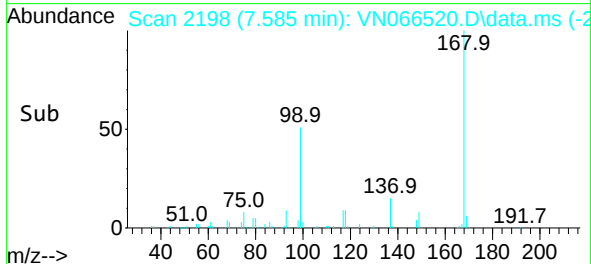
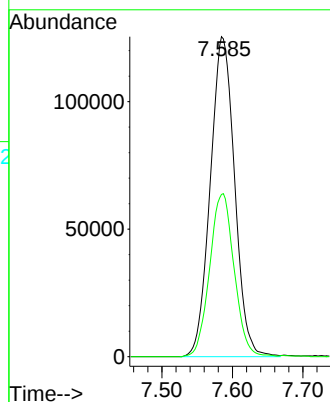
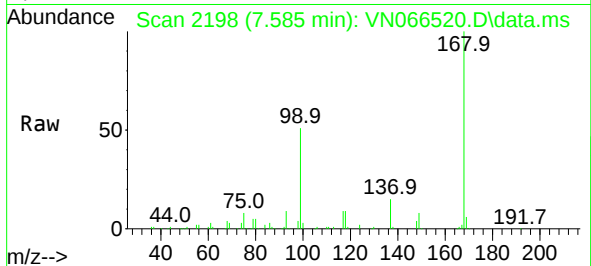




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.585 min Scan# 2198
Delta R.T. 0.001 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

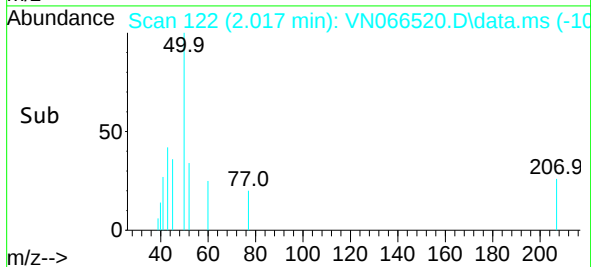
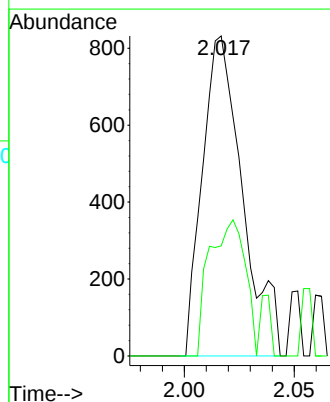
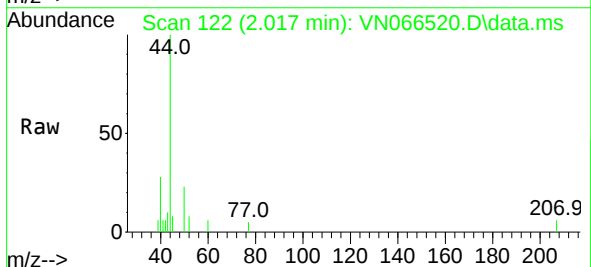
Instrument :
MSVOA_N
ClientSampleId :

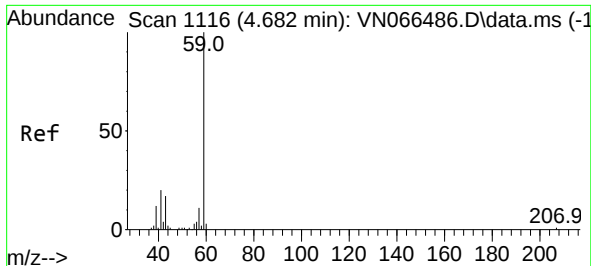
Tgt Ion:168 Resp: 300730
Ion Ratio Lower Upper
168 100
99 50.7 41.1 61.7



#3
Chloromethane
Concen: 0.24 ug/l
RT: 2.017 min Scan# 122
Delta R.T. -0.000 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

Tgt Ion: 50 Resp: 1057
Ion Ratio Lower Upper
50 100
52 34.4 26.2 39.2



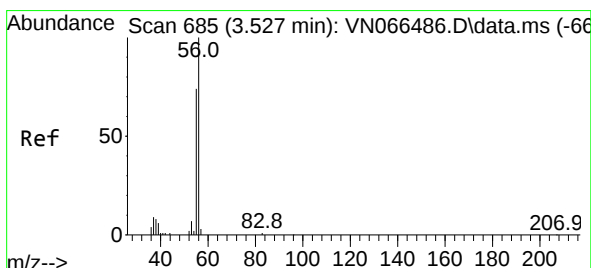
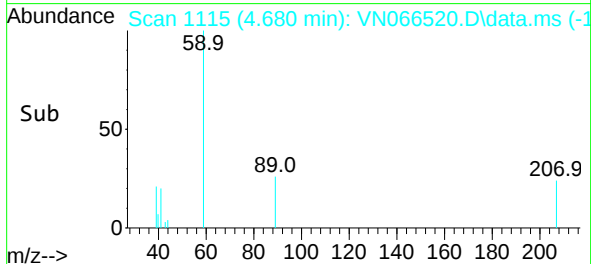
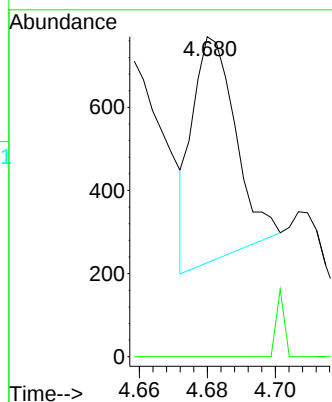
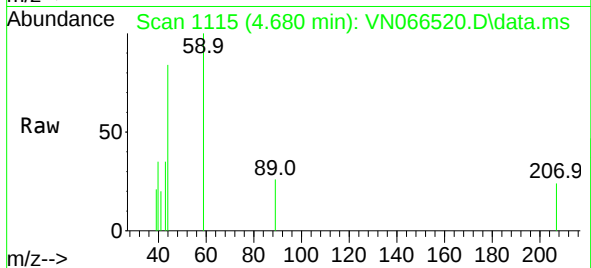


#11

Tert butyl alcohol
Concen: 0.75 ug/l
RT: 4.680 min Scan# 1115
Delta R.T. -0.002 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

Instrument :
MSVOA_N
ClientSampled :

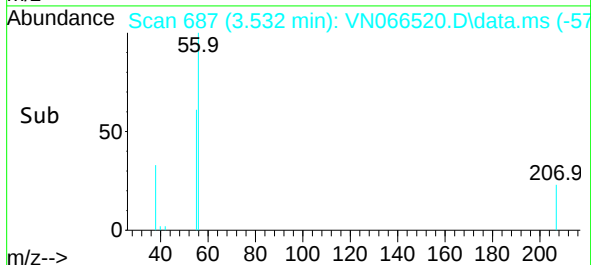
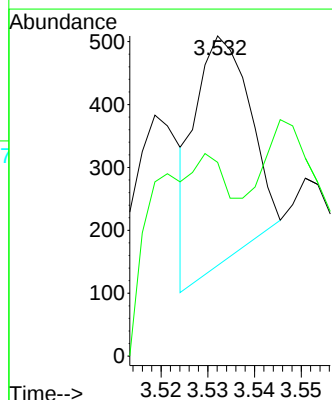
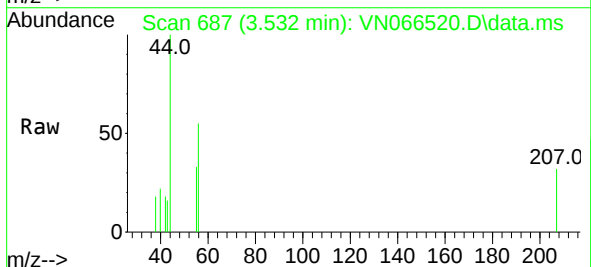
Tgt Ion: 59 Resp: 478
Ion Ratio Lower Upper
59 100
57 0.0 4.1 6.1#

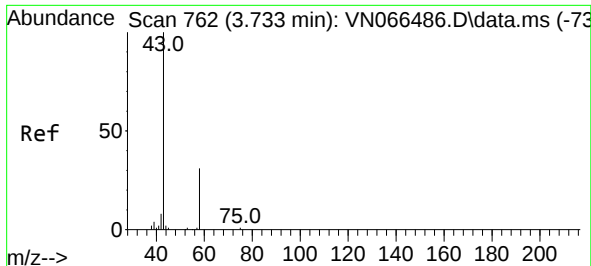


#13

Acrolein
Concen: 4.51 ug/l
RT: 3.532 min Scan# 687
Delta R.T. 0.005 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

Tgt Ion: 56 Resp: 296
Ion Ratio Lower Upper
56 100
55 133.8 57.9 86.9#

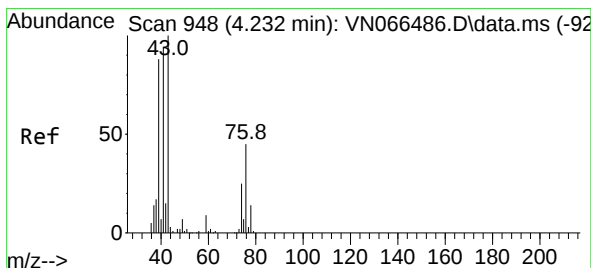
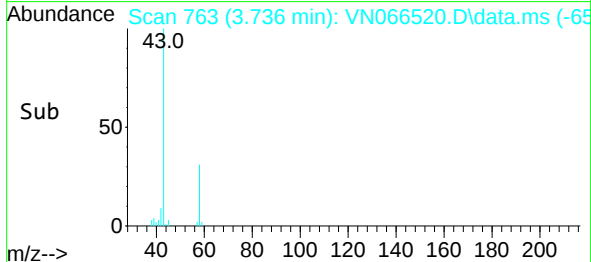
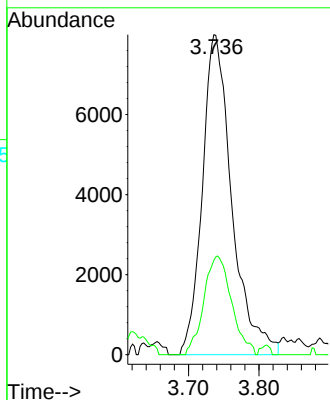
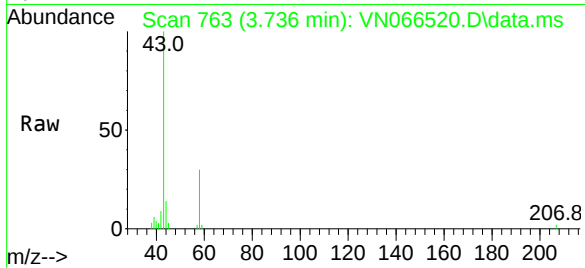




#16
Acetone
Concen: 14.00 ug/l
RT: 3.736 min Scan# 763
Delta R.T. 0.003 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

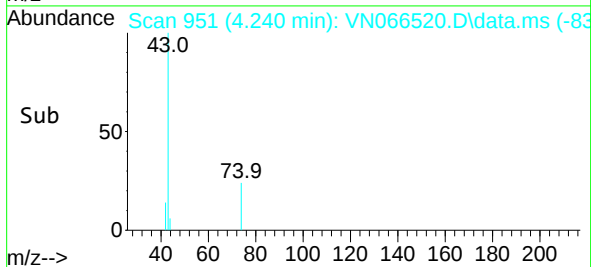
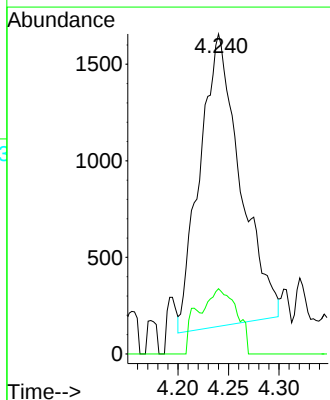
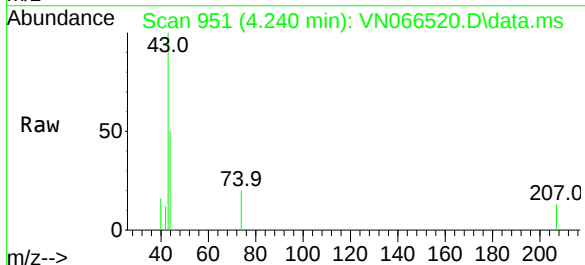
Instrument :
MSVOA_N
ClientSampled :

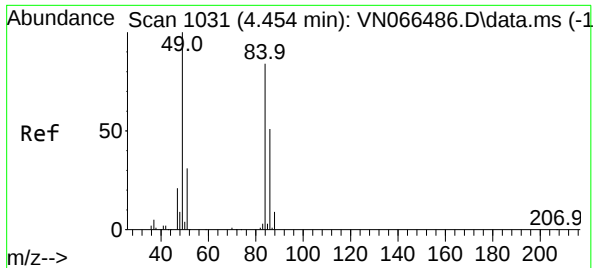
Tgt Ion: 43 Resp: 23238
Ion Ratio Lower Upper
43 100
58 29.5 23.8 35.8



#18
Methyl Acetate
Concen: 1.01 ug/l
RT: 4.240 min Scan# 951
Delta R.T. 0.008 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

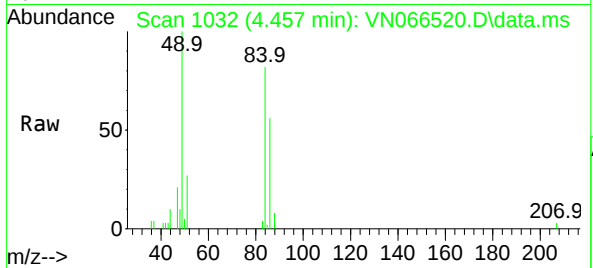
Tgt Ion: 43 Resp: 4212
Ion Ratio Lower Upper
43 100
74 16.1 17.6 26.4#





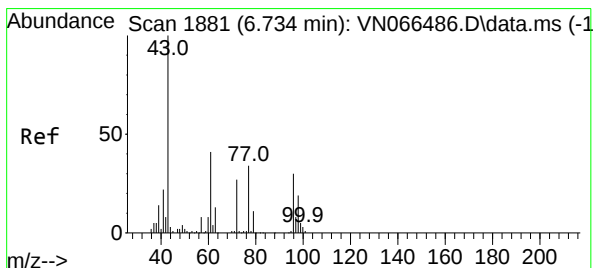
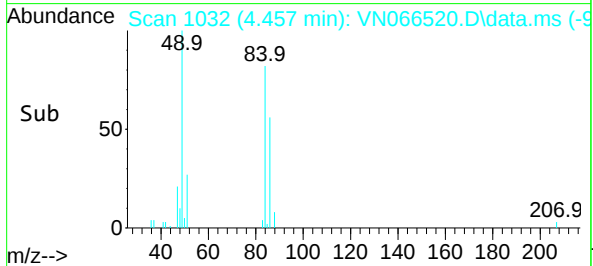
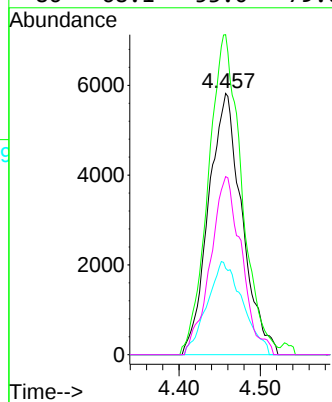
#20
Methylene Chloride
Concen: 4.66 ug/l
RT: 4.457 min Scan# 1032
Delta R.T. 0.003 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 84 Resp: 16619

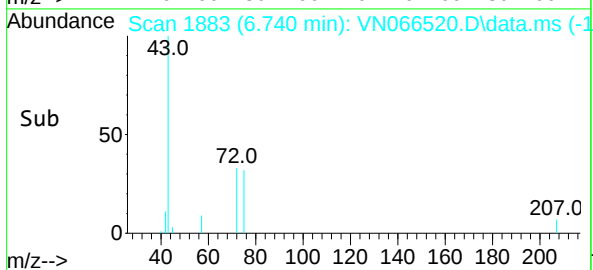
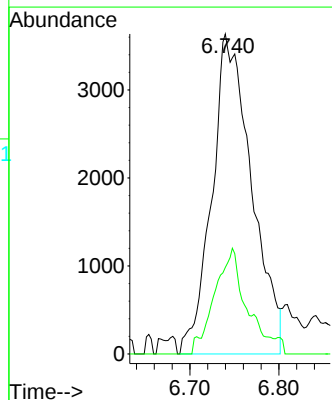
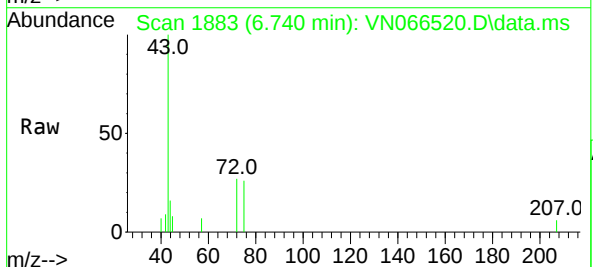
Ion	Ratio	Lower	Upper
84	100		
49	122.5	105.0	157.6
51	33.0	31.6	47.4
86	68.1	53.0	79.6

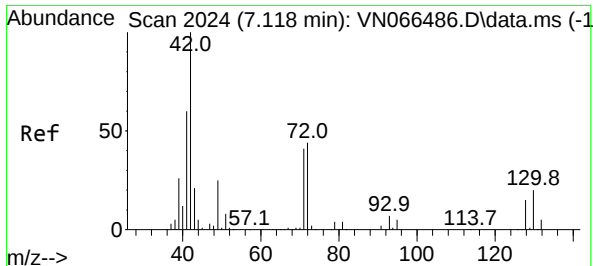


#25
2-Butanone
Concen: 4.52 ug/l
RT: 6.740 min Scan# 1883
Delta R.T. 0.006 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

Tgt Ion: 43 Resp: 11259

Ion	Ratio	Lower	Upper
43	100		
72	27.1	20.7	31.1

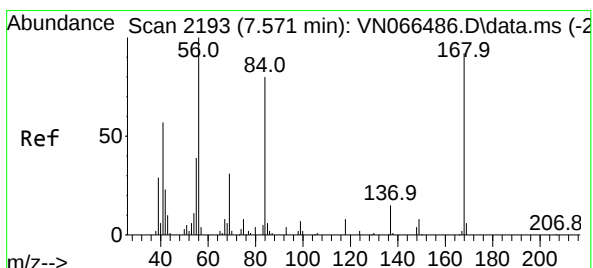
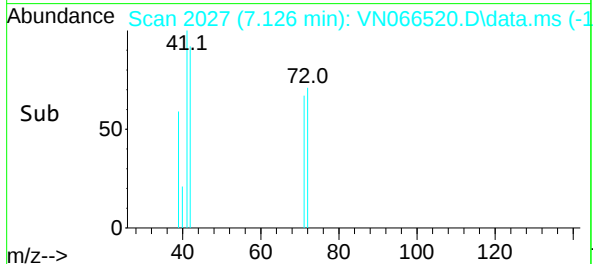
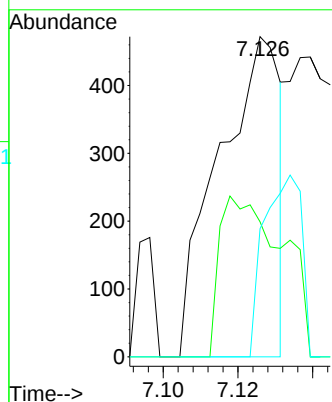
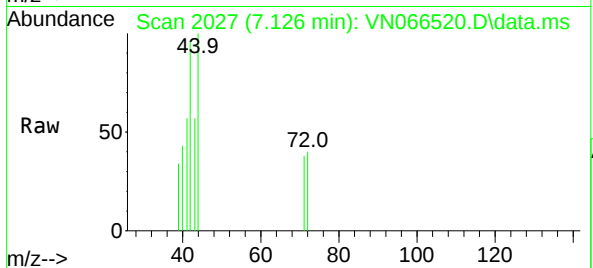




#29
Tetrahydrofuran
Concen: 0.32 ug/l
RT: 7.126 min Scan# 2027
Delta R.T. 0.008 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

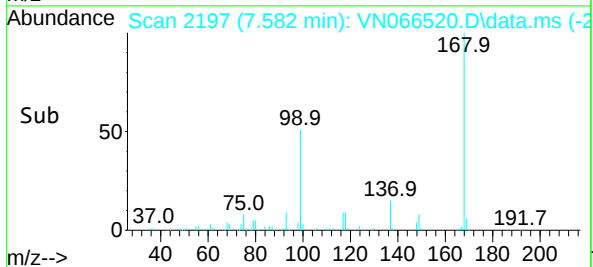
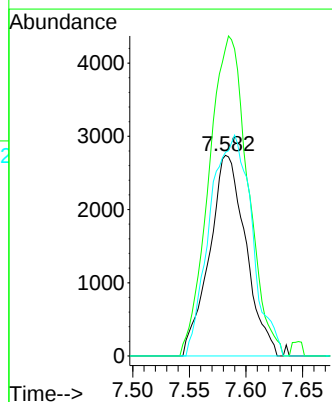
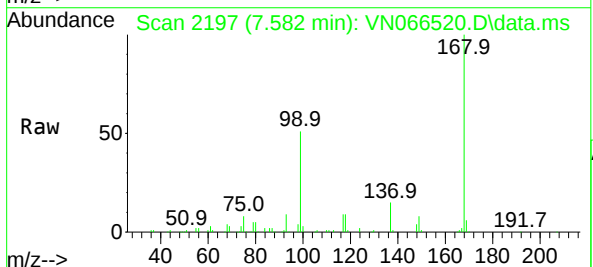
Instrument :
MSVOA_N
ClientSampleId :

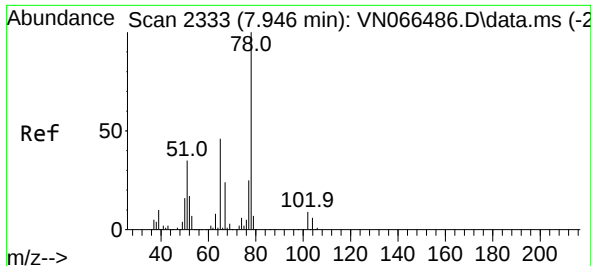
Tgt Ion: 42 Resp: 539
Ion Ratio Lower Upper
42 100
72 51.4 35.2 52.8
71 34.7 33.1 49.7



#31
Cyclohexane
Concen: 1.12 ug/l
RT: 7.582 min Scan# 2197
Delta R.T. 0.011 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

Tgt Ion: 56 Resp: 6113
Ion Ratio Lower Upper
56 100
69 153.3 26.6 40.0#
84 101.5 68.7 103.1

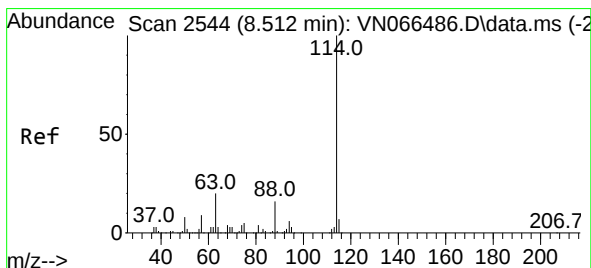
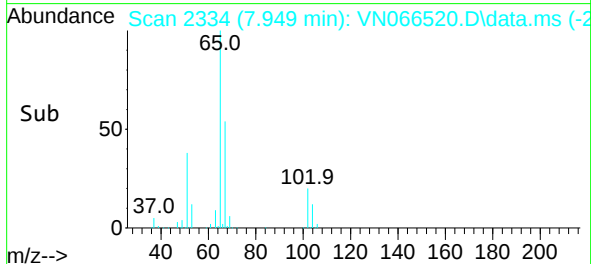
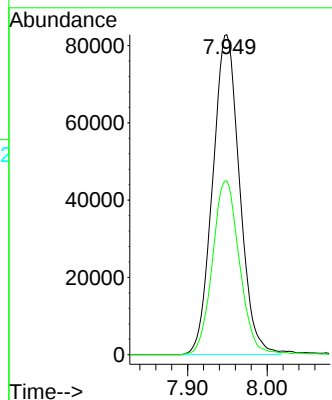
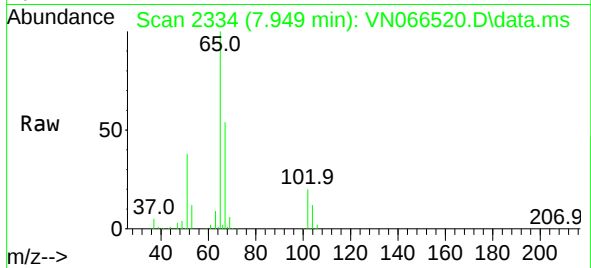




#33
1,2-Dichloroethane-d4
Concen: 49.17 ug/l
RT: 7.949 min Scan# 2334
Delta R.T. 0.003 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

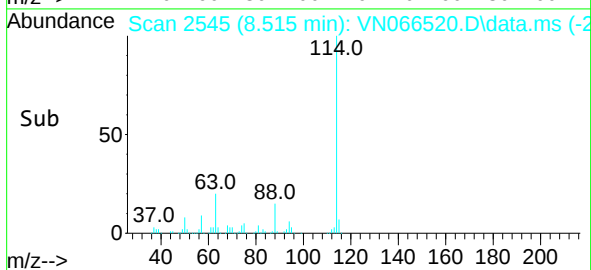
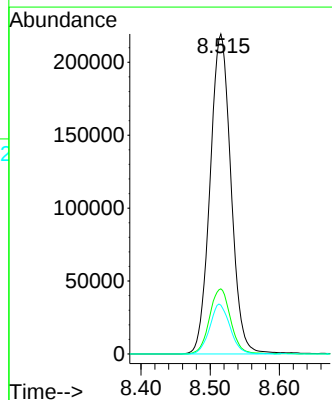
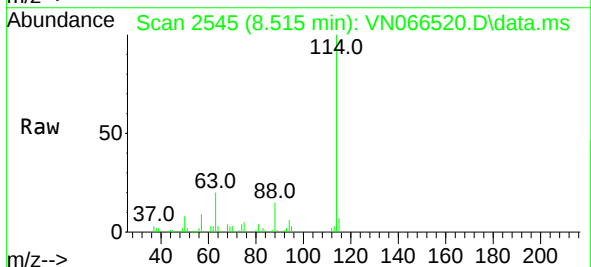
Instrument :
MSVOA_N
ClientSampleId :

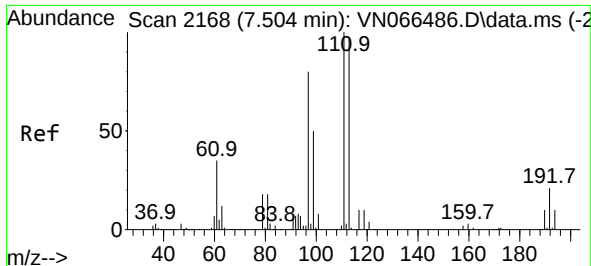
Tgt Ion: 65 Resp: 194753
Ion Ratio Lower Upper
65 100
67 54.4 0.0 105.2



#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.515 min Scan# 2545
Delta R.T. 0.003 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

Tgt Ion: 114 Resp: 458768
Ion Ratio Lower Upper
114 100
63 20.3 0.0 42.0
88 15.2 0.0 31.0

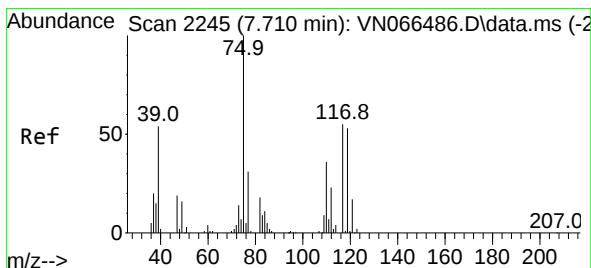
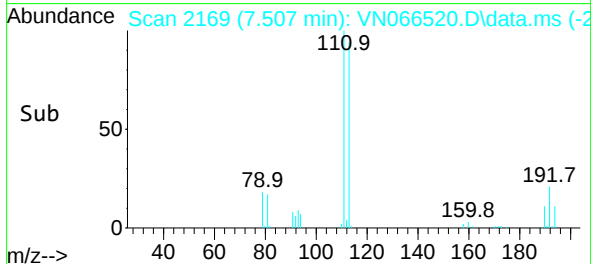
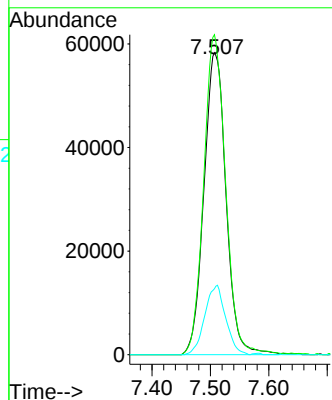
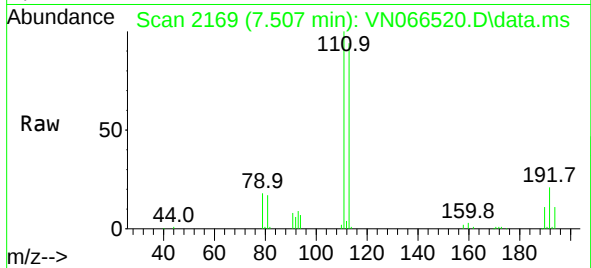




#35
Dibromofluoromethane
Concen: 49.02 ug/l
RT: 7.507 min Scan# 2169
Delta R.T. 0.003 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

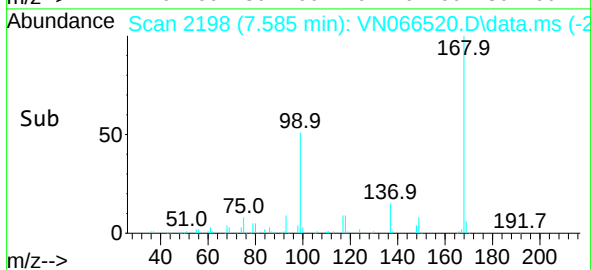
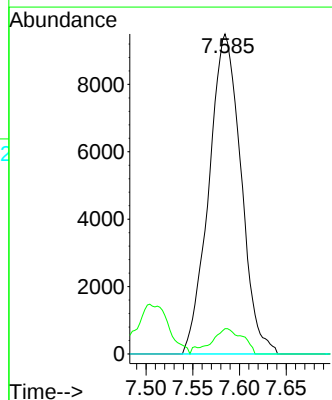
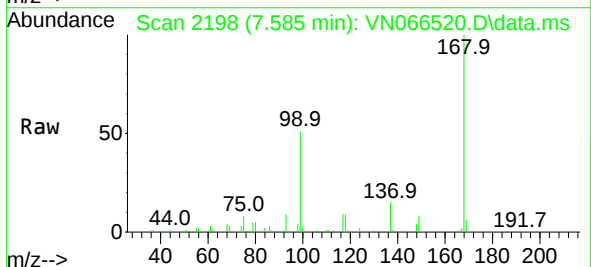
Instrument :
MSVOA_N
ClientSampleId :

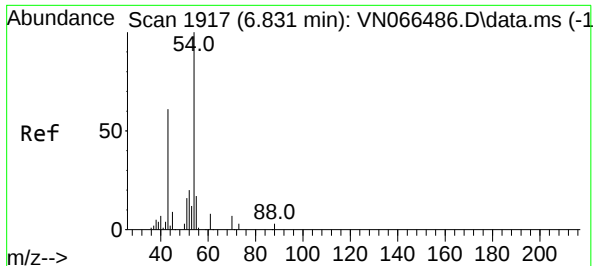
Tgt Ion:113 Resp: 153273
Ion Ratio Lower Upper
113 100
111 104.9 81.8 122.8
192 21.7 17.1 25.7



#36
1,1-Dichloropropene
Concen: 5.08 ug/l
RT: 7.585 min Scan# 2198
Delta R.T. -0.125 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

Tgt Ion: 75 Resp: 22654
Ion Ratio Lower Upper
75 100
110 7.2 18.1 54.3#
77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 2.04 ug/l

RT: 6.740 min Scan# 1883

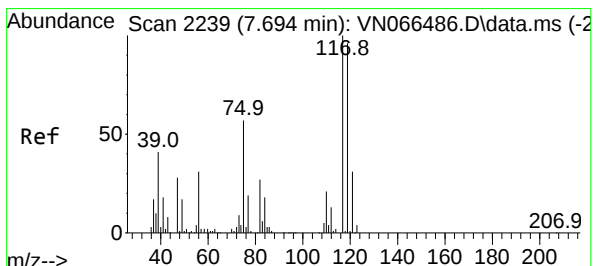
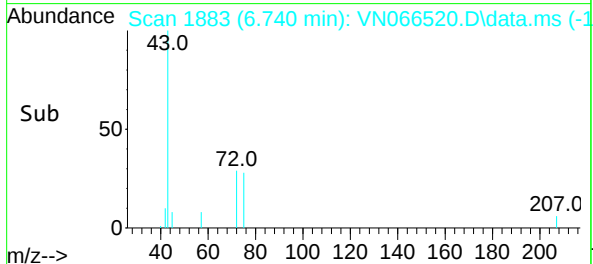
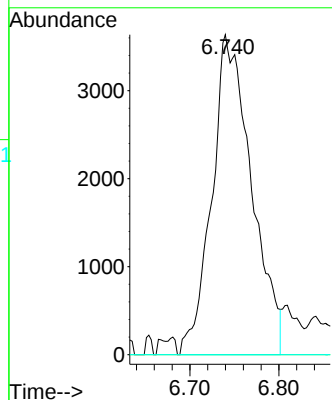
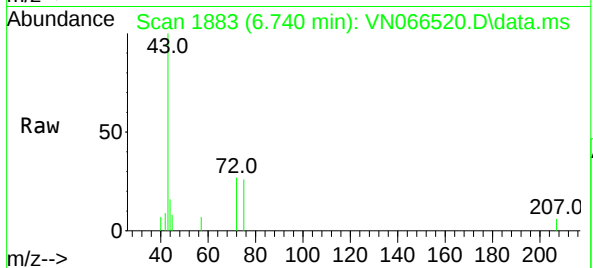
Delta R.T. -0.091 min

Lab File: VN066520.D

Acq: 7 Apr 2021 20:57

Tgt Ion:	43	Resp:	11259
Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.1	16.7#
70	0.0	8.0	12.0#

Instrument :
MSVOA_N
ClientSampleId :



#38

Carbon Tetrachloride

Concen: 6.18 ug/l

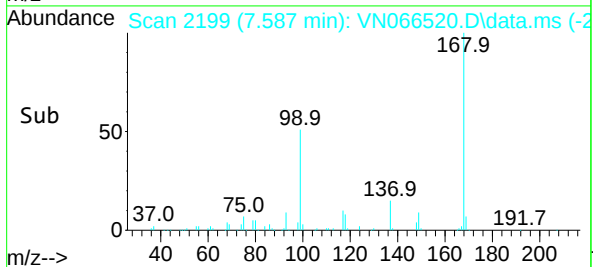
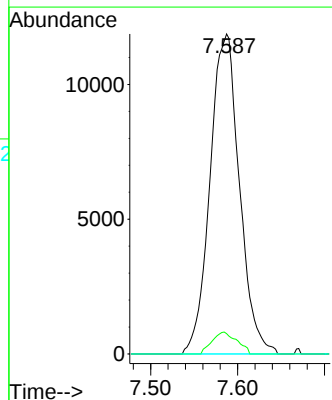
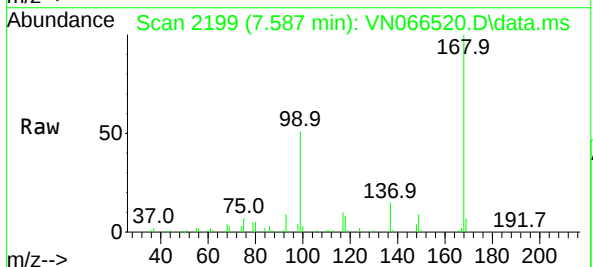
RT: 7.587 min Scan# 2199

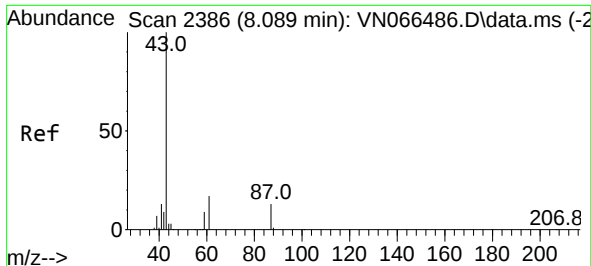
Delta R.T. -0.107 min

Lab File: VN066520.D

Acq: 7 Apr 2021 20:57

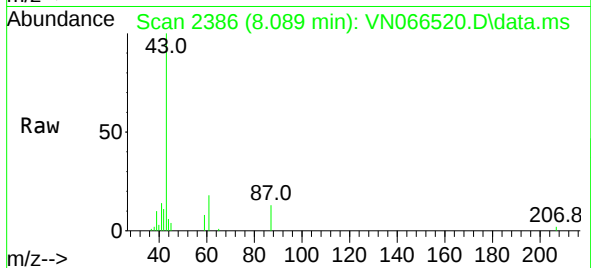
Tgt Ion:	117	Resp:	27935
Ion	Ratio	Lower	Upper
117	100		
119	6.4	77.2	115.8#
121	0.0	24.2	36.4#



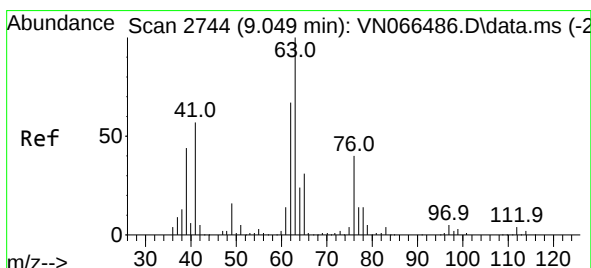
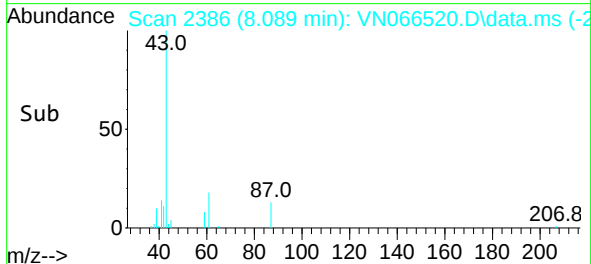
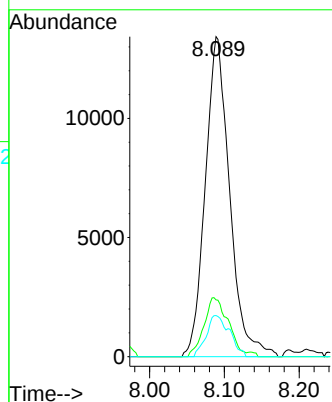


#43
Isopropyl Acetate
Concen: 3.56 ug/l
RT: 8.089 min Scan# 2386
Delta R.T. -0.000 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

Instrument :
MSVOA_N
ClientSampled :

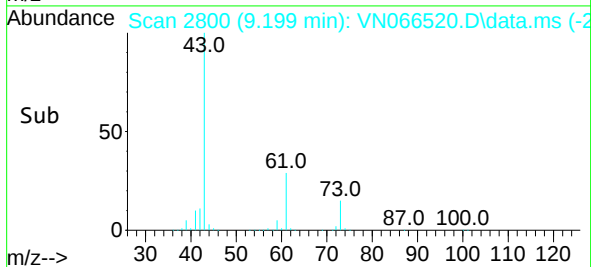
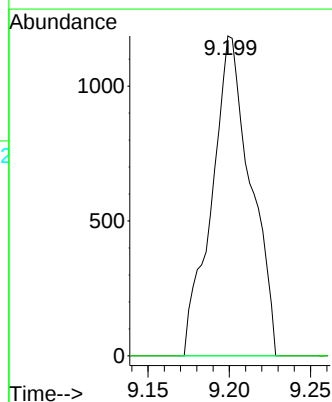
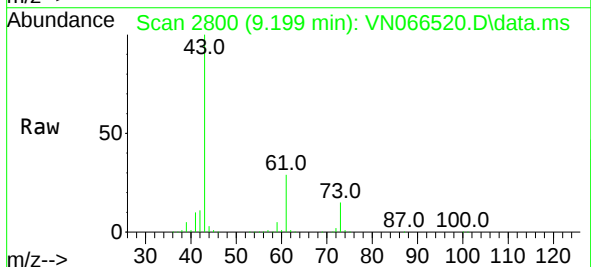


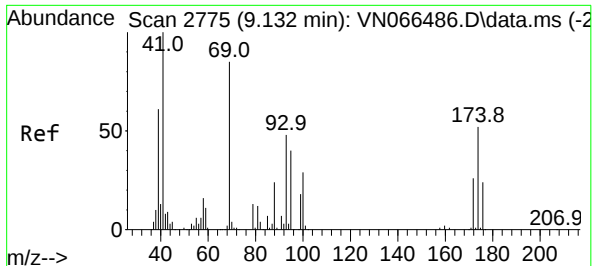
Tgt Ion: 43 Resp: 30386
Ion Ratio Lower Upper
43 100
61 18.3 15.5 23.3
87 12.2 10.5 15.7



#45
1,2-Dichloropropane
Concen: 0.53 ug/l
RT: 9.199 min Scan# 2800
Delta R.T. 0.150 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

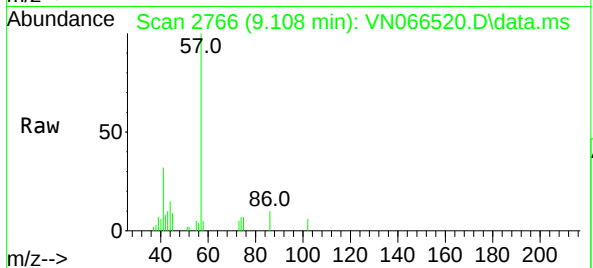
Tgt Ion: 63 Resp: 1979
Ion Ratio Lower Upper
63 100
65 0.0 25.5 38.3#



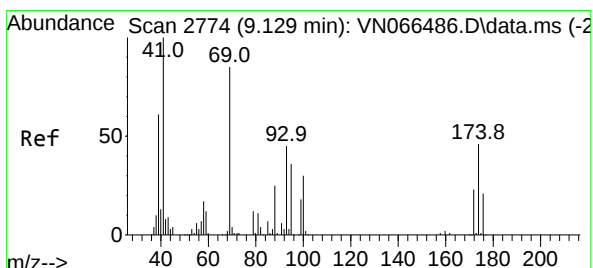
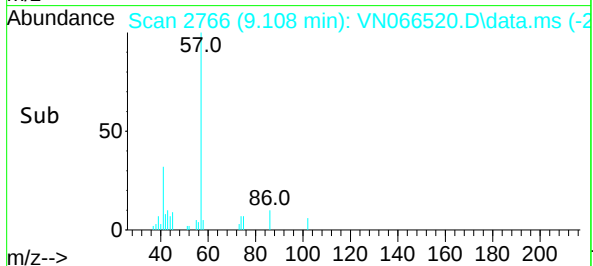
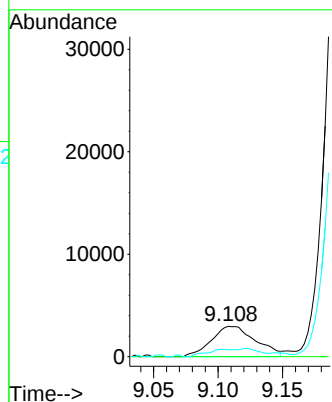


#48
Methyl methacrylate
Concen: 1.85 ug/l
RT: 9.108 min Scan# 2766
Delta R.T. -0.024 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

Instrument :
MSVOA_N
ClientSampled :

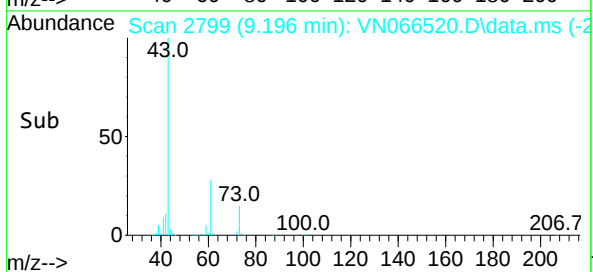
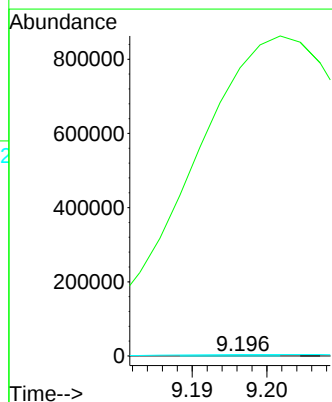
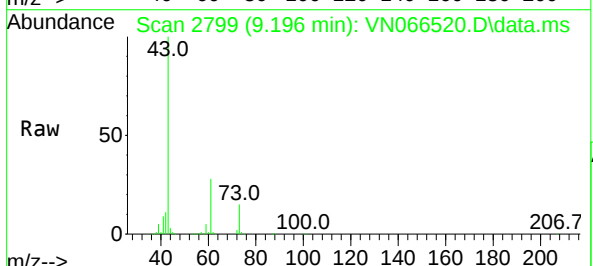


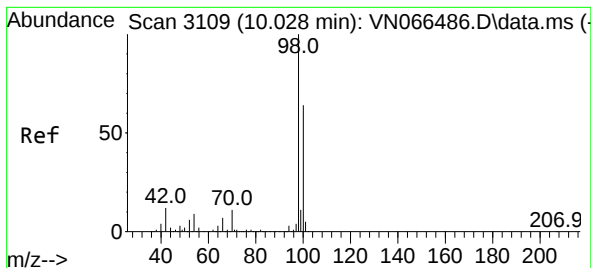
Tgt Ion: 41 Resp: 7030
Ion Ratio Lower Upper
41 100
69 0.0 66.2 99.4#
39 0.0 51.5 77.3#



#49
1,4-Dioxane
Concen: 0.99 ug/l
RT: 9.196 min Scan# 2799
Delta R.T. 0.067 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

Tgt Ion: 88 Resp: 51
Ion Ratio Lower Upper
88 100
43 3157147.1 28.2 42.4#
58 15978.4 56.6 84.8#

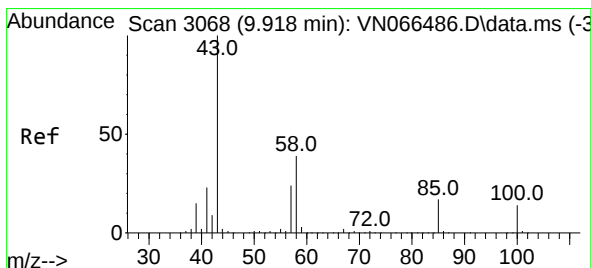
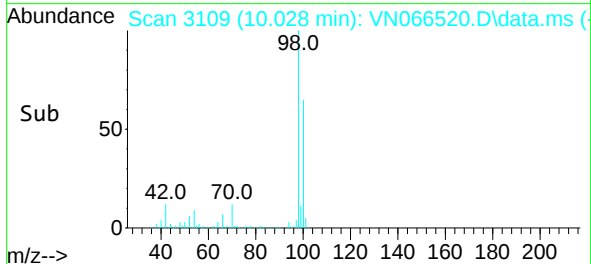
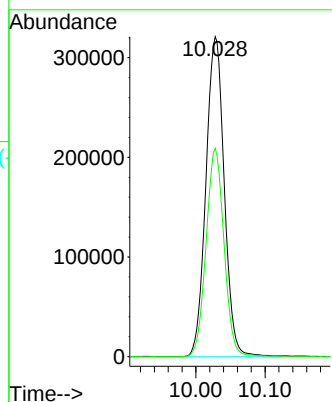
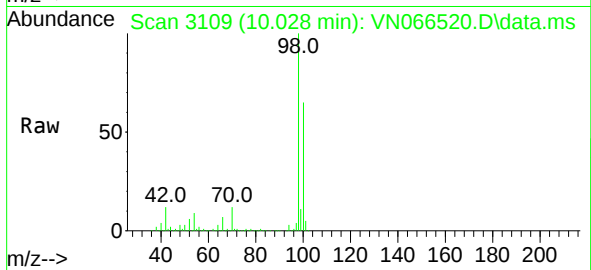




#50
Toluene-d8
Concen: 49.81 ug/l
RT: 10.028 min Scan# 3109
Delta R.T. -0.000 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

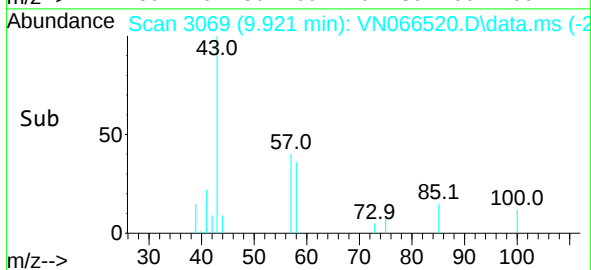
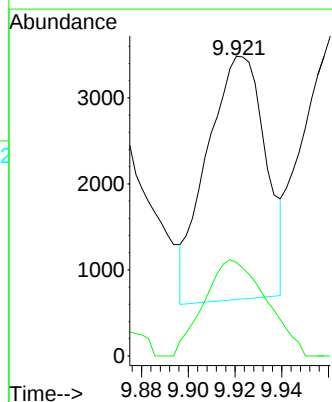
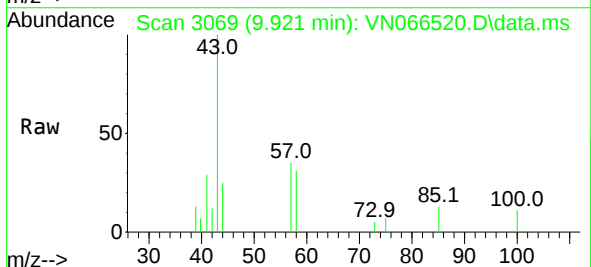
Instrument :
MSVOA_N
ClientSampled :

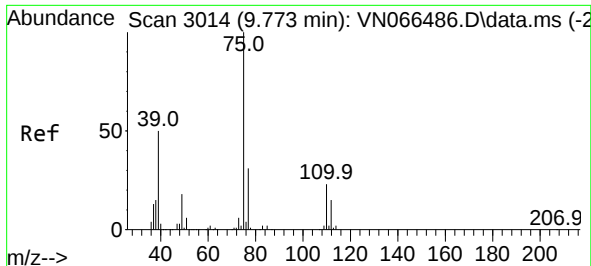
Tgt Ion: 98 Resp: 591772
Ion Ratio Lower Upper
98 100
100 63.7 50.5 75.7



#51
4-Methyl-2-Pentanone
Concen: 0.97 ug/l
RT: 9.921 min Scan# 3069
Delta R.T. 0.003 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

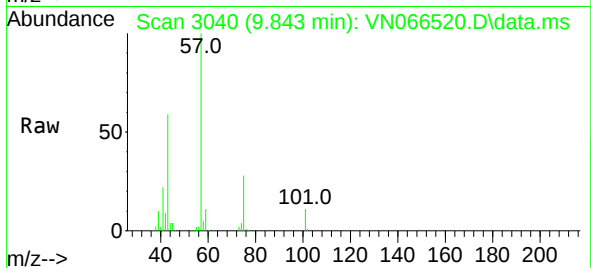
Tgt Ion: 43 Resp: 4940
Ion Ratio Lower Upper
43 100
58 41.9 30.8 46.2



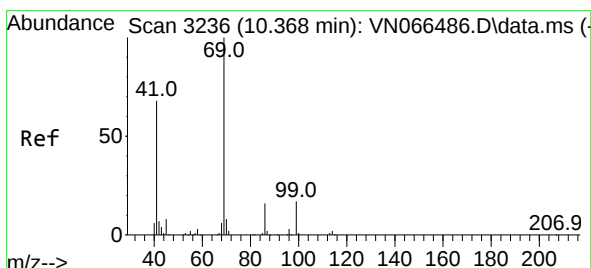
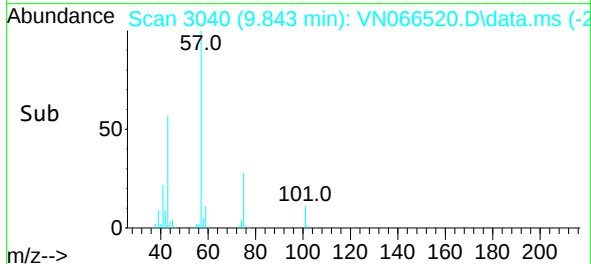
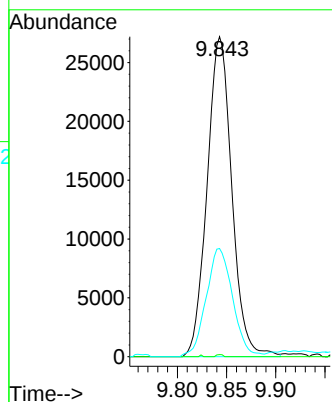


#54
cis-1,3-Dichloropropene
Concen: 8.34 ug/l
RT: 9.843 min Scan# 3040
Delta R.T. 0.070 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

Instrument :
MSVOA_N
ClientSampleId :

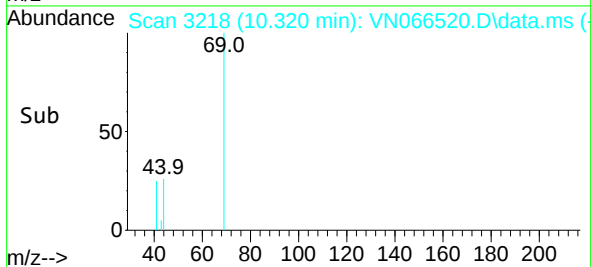
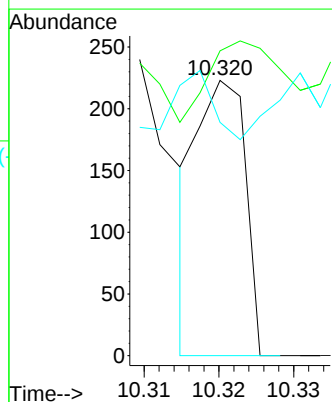
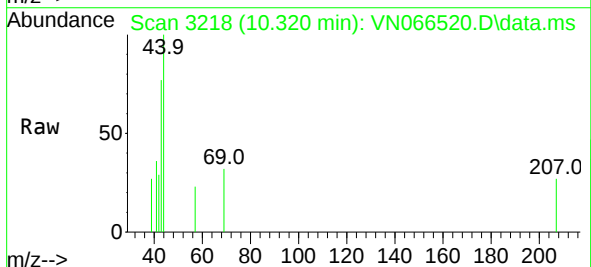


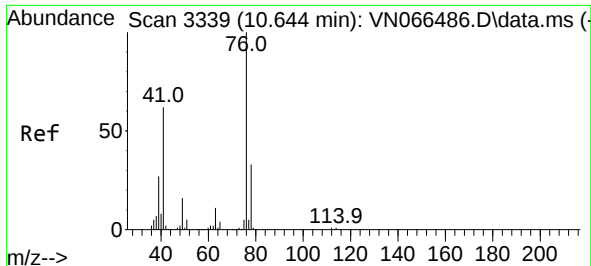
Tgt Ion: 75 Resp: 47456
Ion Ratio Lower Upper
75 100
77 0.7 25.4 38.2#
39 33.8 44.2 66.4#



#56
Ethyl methacrylate
Concen: 3.74 ug/l
RT: 10.320 min Scan# 3218
Delta R.T. -0.048 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

Tgt Ion: 69 Resp: 100
Ion Ratio Lower Upper
69 100
41 0.0 55.3 82.9#
39 0.0 33.8 50.6#

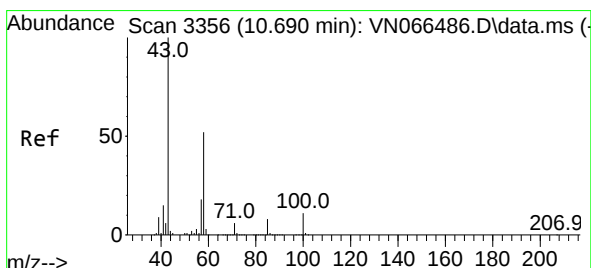
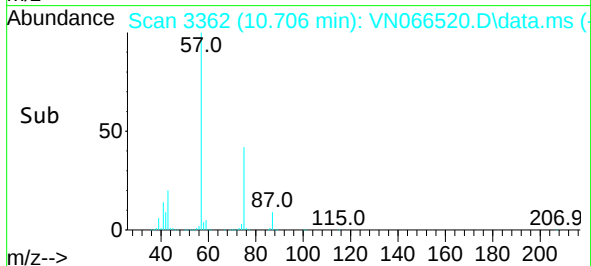
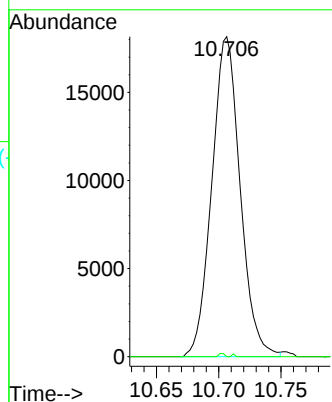
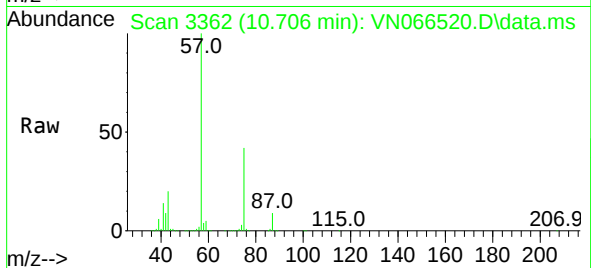




#57
1,3-Dichloropropane
Concen: 5.02 ug/l
RT: 10.706 min Scan# 3362
Delta R.T. 0.062 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

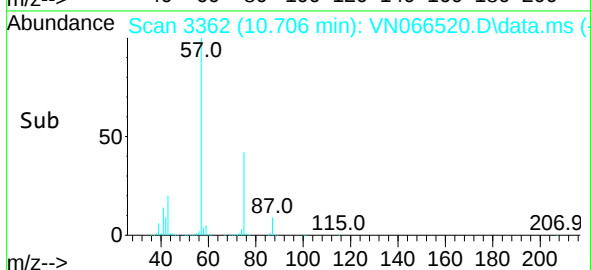
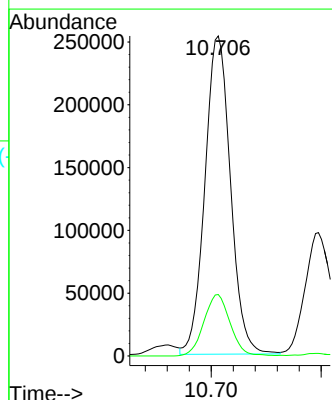
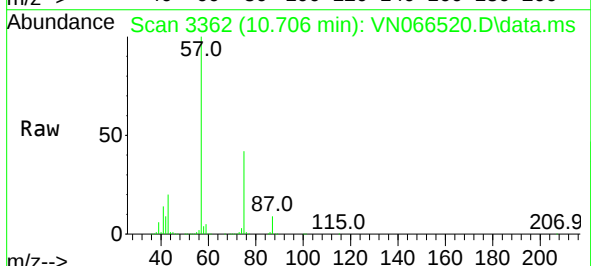
Instrument :
MSVOA_N
ClientSampleId :

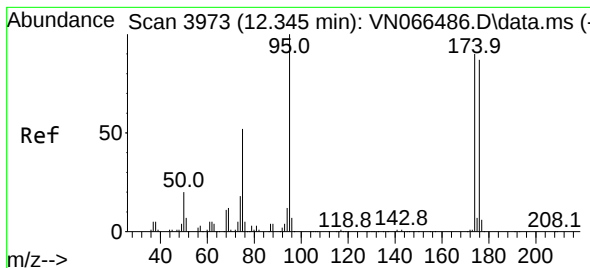
Tgt Ion: 76 Resp: 28713
Ion Ratio Lower Upper
76 100
78 0.1 25.9 38.9#



#59
2-Hexanone
Concen: 110.27 ug/l
RT: 10.706 min Scan# 3362
Delta R.T. 0.016 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

Tgt Ion: 43 Resp: 409234
Ion Ratio Lower Upper
43 100
58 19.9 26.6 79.8#

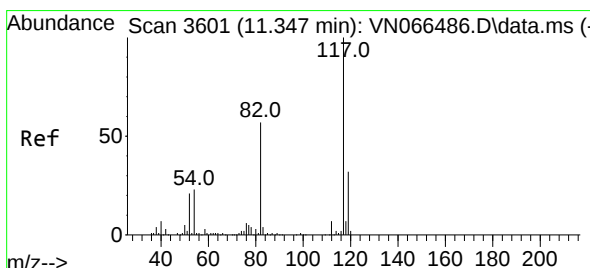
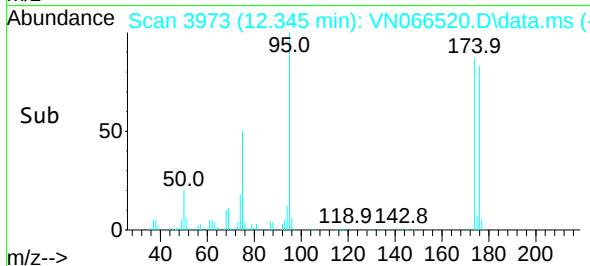
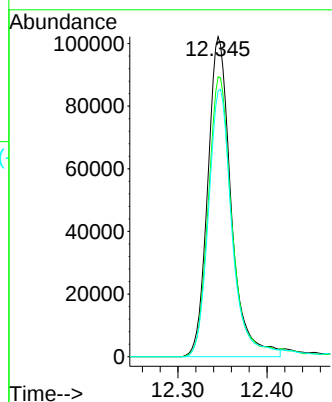
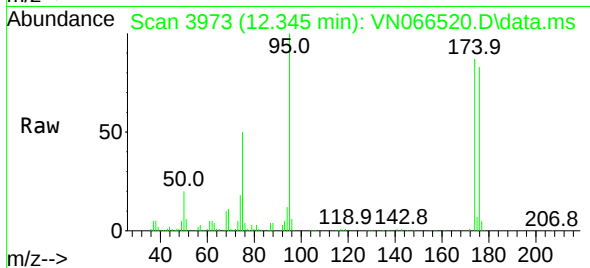




#62
4-Bromofluorobenzene
Concen: 48.24 ug/l
RT: 12.345 min Scan# 3973
Delta R.T. 0.000 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

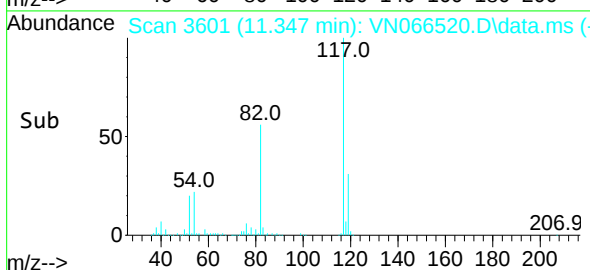
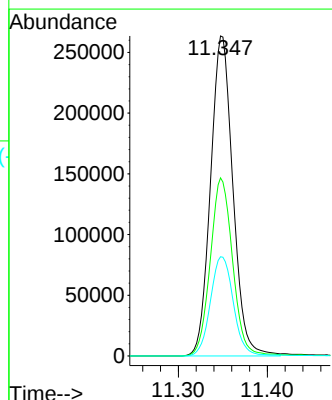
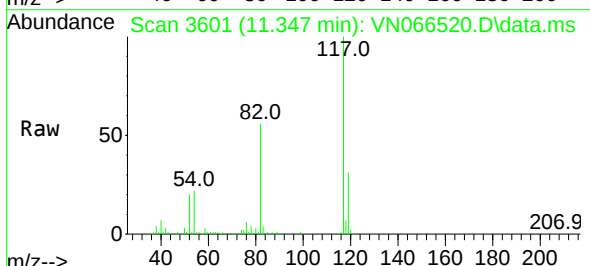
Instrument :
MSVOA_N
ClientSampleId :

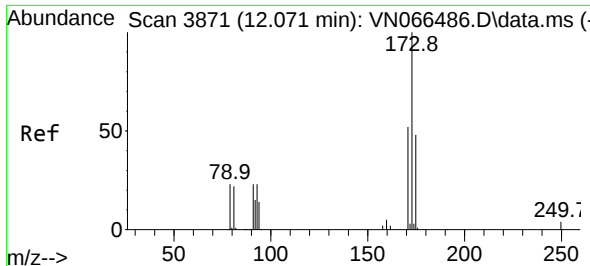
Tgt Ion: 95 Resp: 185868
Ion Ratio Lower Upper
95 100
174 88.4 0.0 172.2
176 86.2 0.0 167.8



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.347 min Scan# 3601
Delta R.T. 0.000 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

Tgt Ion: 117 Resp: 459667
Ion Ratio Lower Upper
117 100
82 55.7 44.2 66.4
119 31.0 25.8 38.6

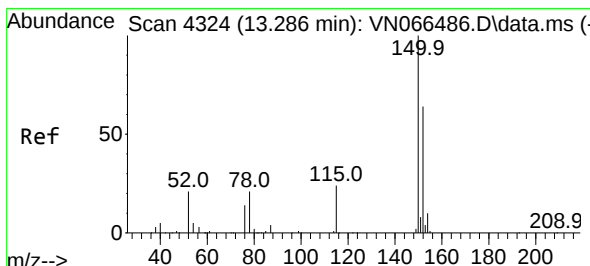
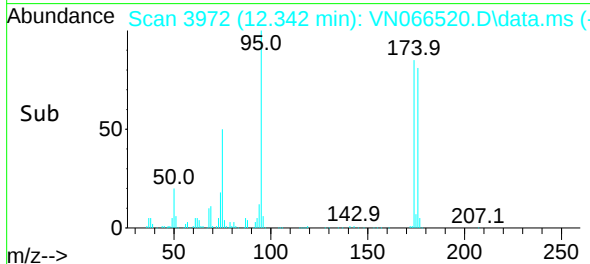
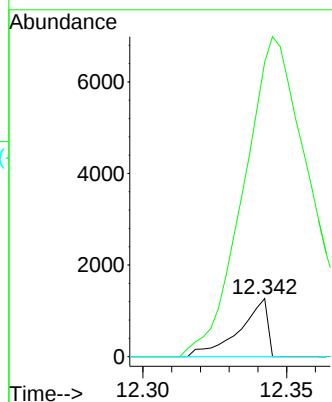
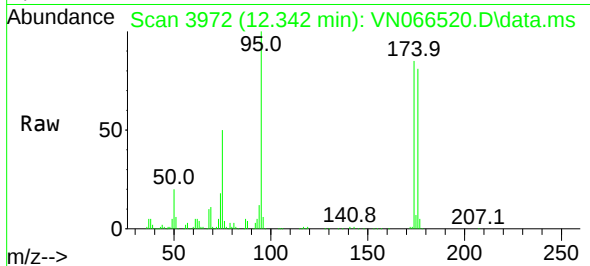




#71
Bromoform
Concen: 0.29 ug/l
RT: 12.342 min Scan# 3972
Delta R.T. 0.271 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

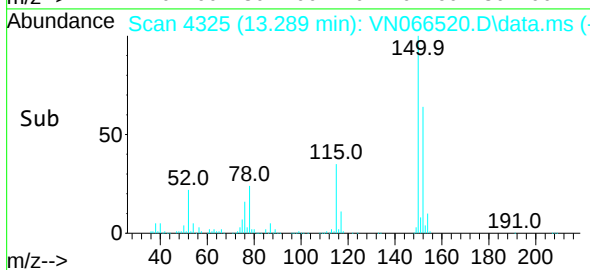
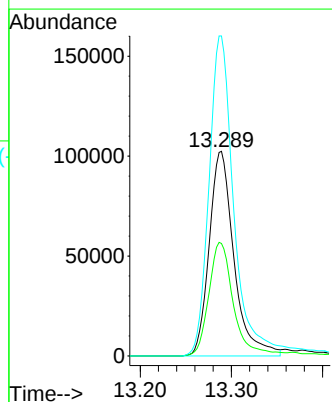
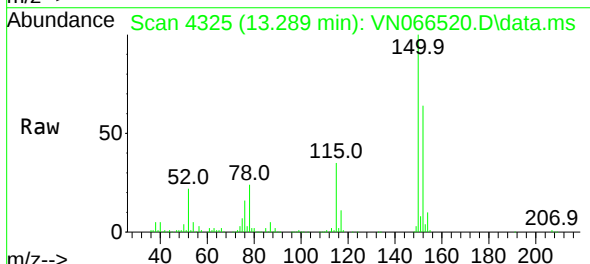
Instrument :
MSVOA_N
ClientSampleId :

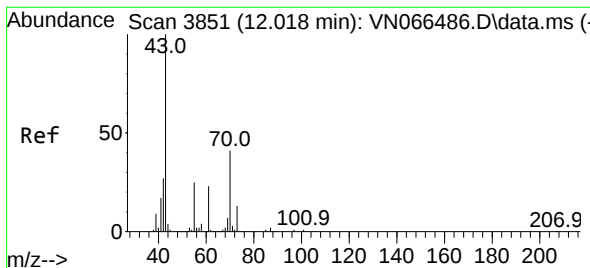
Tgt Ion:173 Resp: 862
Ion Ratio Lower Upper
173 100
175 1175.2 24.3 72.8#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.289 min Scan# 4325
Delta R.T. 0.003 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

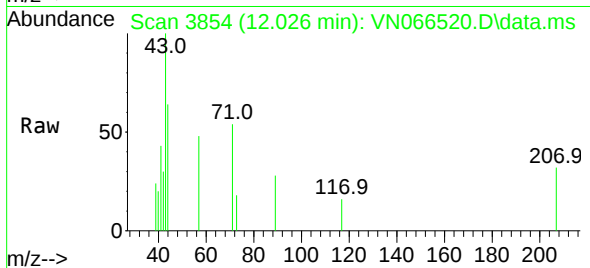
Tgt Ion:152 Resp: 193587
Ion Ratio Lower Upper
152 100
115 55.1 27.8 83.4
150 161.0 0.0 348.4



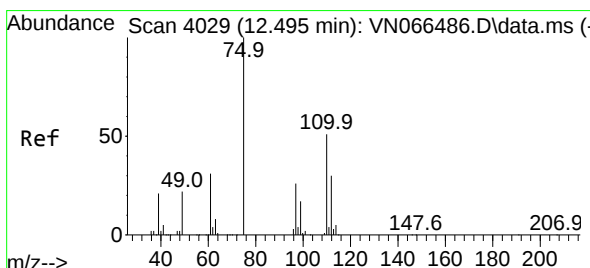
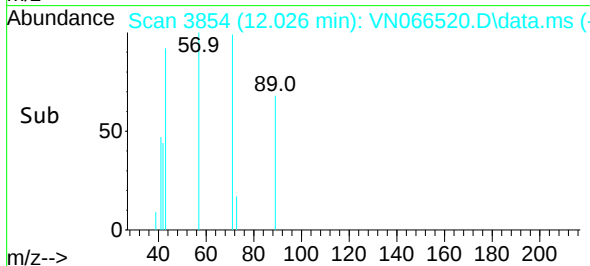
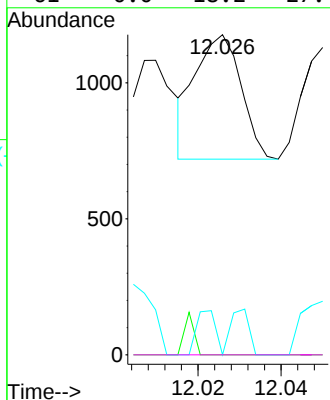


#74
N-amy1 acetate
Concen: 12.78 ug/l
RT: 12.026 min Scan# 3854
Delta R.T. 0.008 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

Instrument :
MSVOA_N
ClientSampled :

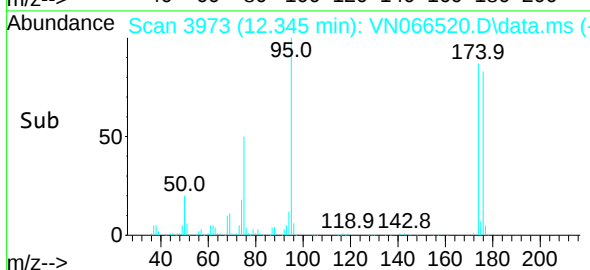
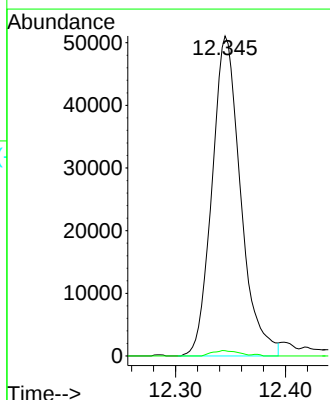
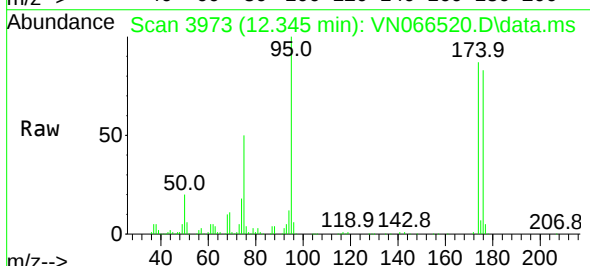


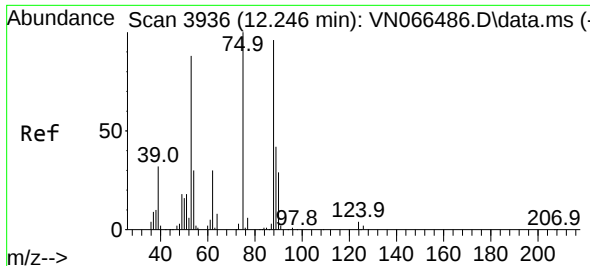
Tgt Ion: 43 Resp: 352
Ion Ratio Lower Upper
43 100
70 7.1 31.2 46.8#
55 14.8 18.6 28.0#
61 0.0 18.2 27.4#



#76
1,2,3-Trichloropropane
Concen: 21.12 ug/l
RT: 12.345 min Scan# 3973
Delta R.T. -0.150 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

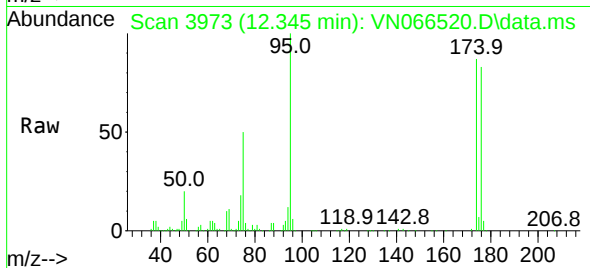
Tgt Ion: 75 Resp: 92233
Ion Ratio Lower Upper
75 100
77 1.5 0.0 0.0#



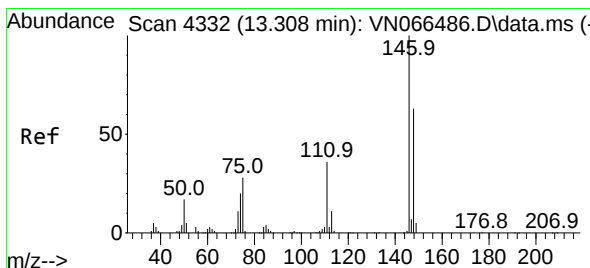
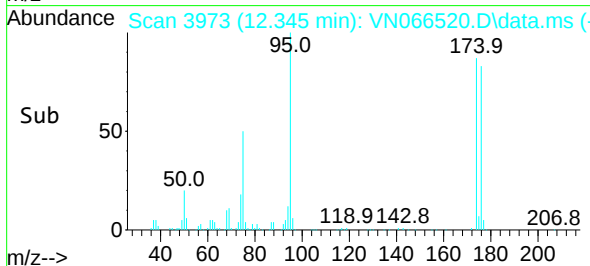
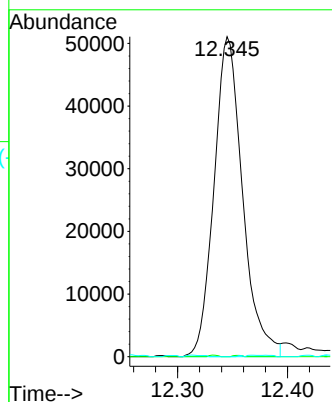


#81
trans-1,4-Dichloro-2-butene
Concen: 59.00 ug/l
RT: 12.345 min Scan# 3973
Delta R.T. 0.099 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

Instrument :
MSVOA_N
ClientSampled :

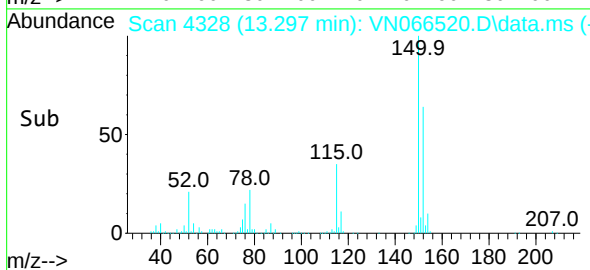
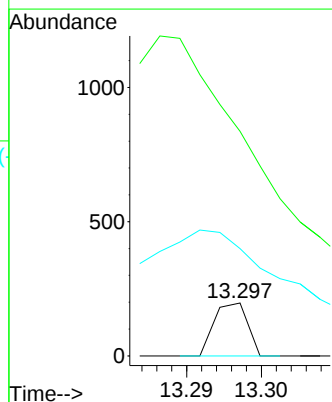
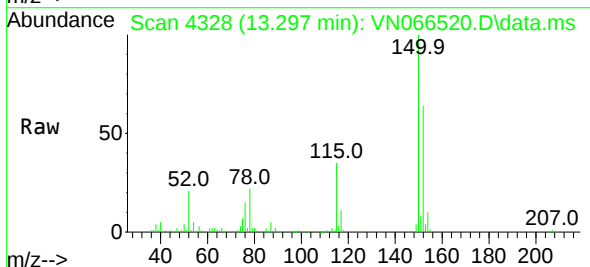


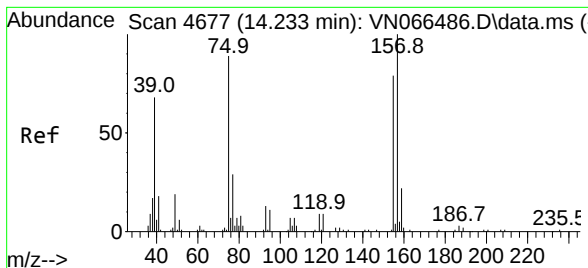
Tgt Ion: 75 Resp: 92233
Ion Ratio Lower Upper
75 100
53 0.1 76.1 114.1#
89 0.1 35.7 53.5#



#88
1,4-Dichlorobenzene
Concen: 1.01 ug/l
RT: 13.297 min Scan# 4328
Delta R.T. -0.011 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

Tgt Ion: 146 Resp: 61
Ion Ratio Lower Upper
146 100
111 3772.1 18.3 54.9#
148 1273.8 31.9 95.9#

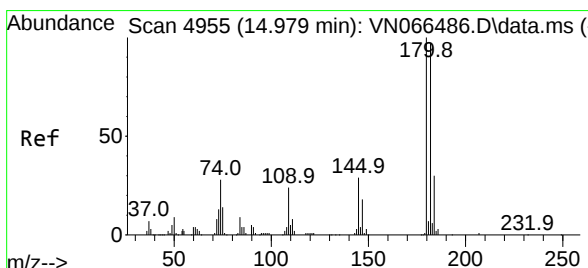
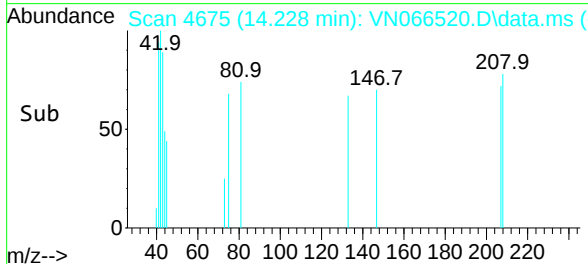
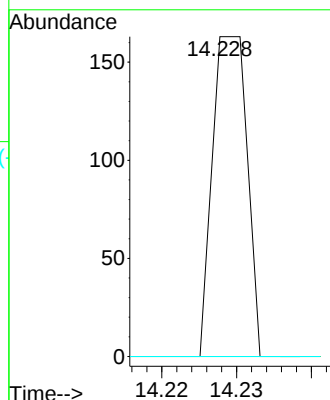
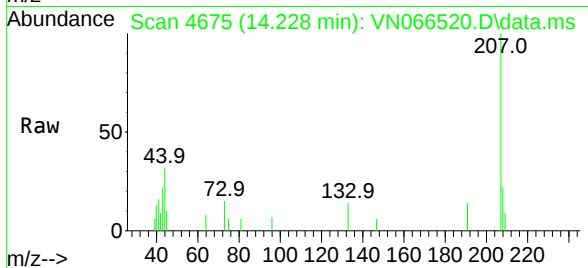




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.38 ug/l
 RT: 14.228 min Scan# 4675
 Delta R.T. -0.005 min
 Lab File: VN066520.D
 Acq: 7 Apr 2021 20:57

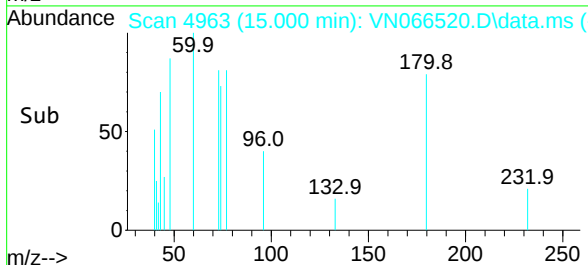
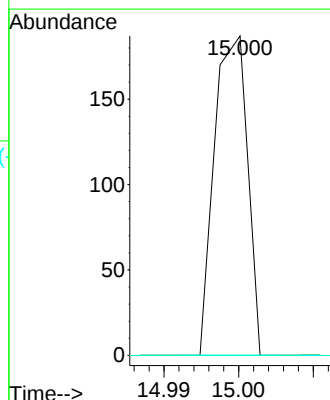
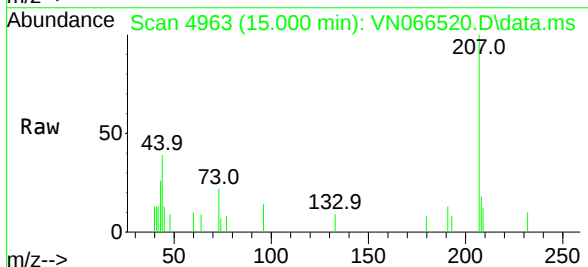
Instrument :
 MSVOA_N
 ClientSampled :

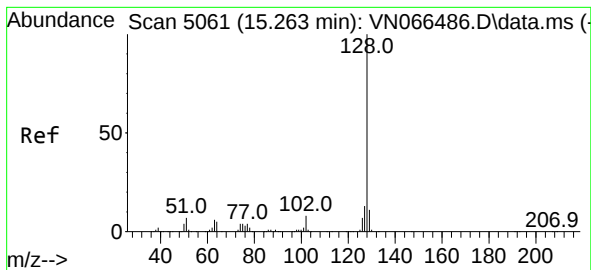
Tgt Ion: 75 Resp: 52
 Ion Ratio Lower Upper
 75 100
 155 0.0 43.8 131.3#
 157 0.0 57.6 172.8#



#93
 1,2,4-Trichlorobenzene
 Concen: 2.25 ug/l
 RT: 15.000 min Scan# 4963
 Delta R.T. 0.021 min
 Lab File: VN066520.D
 Acq: 7 Apr 2021 20:57

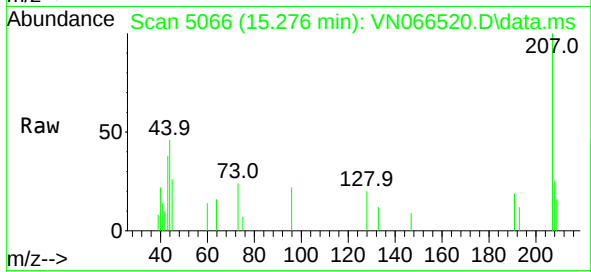
Tgt Ion:180 Resp: 57
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.4 142.3#
 145 0.0 14.2 42.8#





#95
Naphthalene
Concen: 2.01 ug/l
RT: 15.276 min Scan# 5066
Delta R.T. 0.013 min
Lab File: VN066520.D
Acq: 7 Apr 2021 20:57

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:128 Resp: 392
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.5 12.7#

