

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032621\
 Data File : VN066353.D
 Acq On : 26 Mar 2021 16:46
 Operator : JC/MD
 Sample : M1825-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FM5210

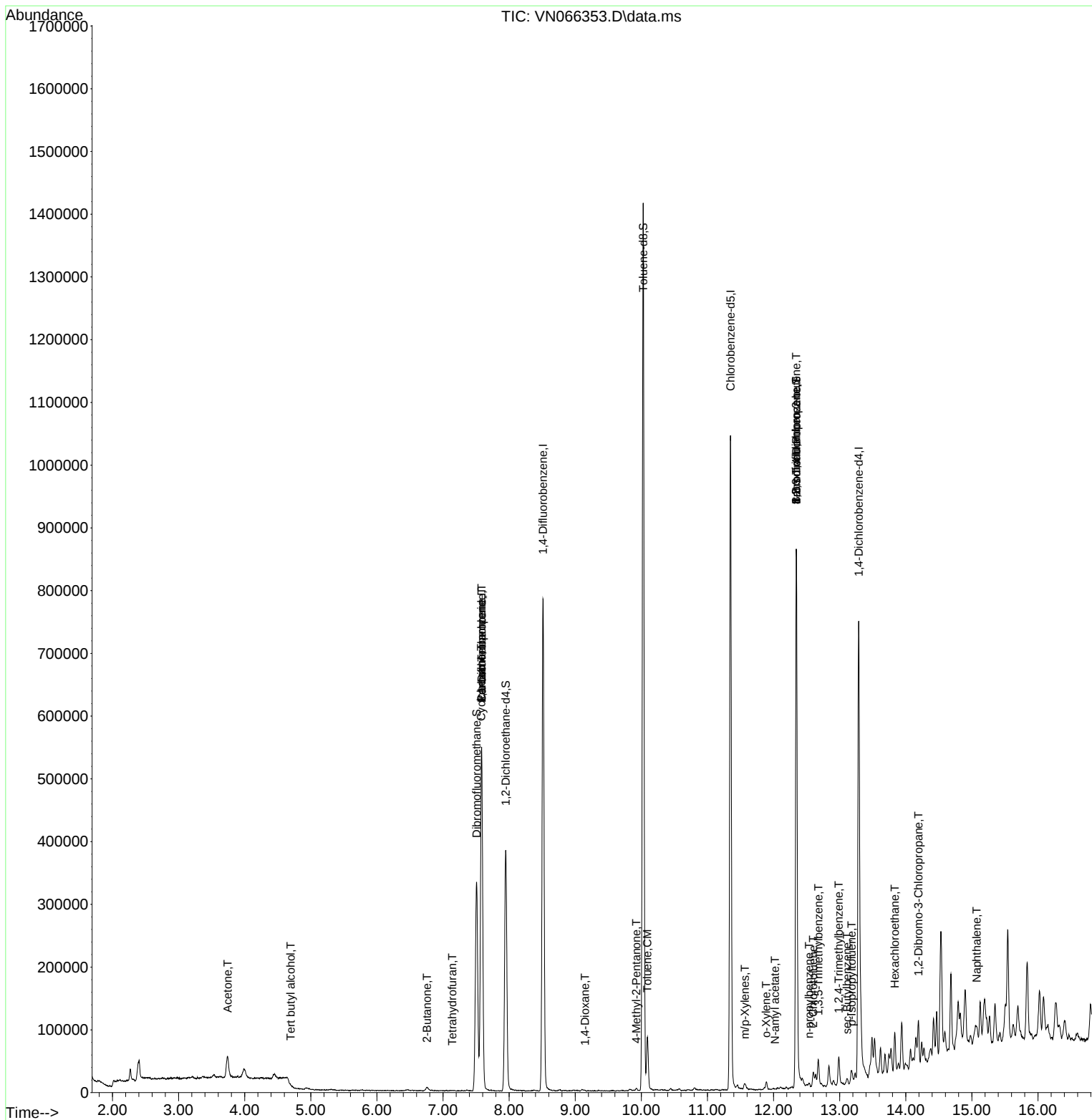
Quant Time: Mar 27 01:49:29 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N032521W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 26 16:26:01 2021
 Response via : Initial Calibration

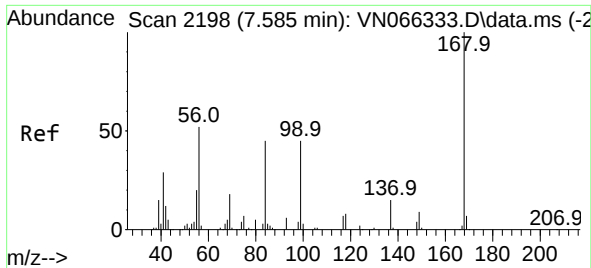
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.584	168	460687	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.512	114	689898	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.350	117	595148	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.289	152	230194	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.949	65	321075	52.43	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 104.86%			
35) Dibromofluoromethane	7.509	113	250546	54.78	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.56%			
50) Toluene-d8	10.028	98	961093	55.40	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 110.80%			
62) 4-Bromofluorobenzene	12.345	95	300322	49.84	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 99.68%			
Target Compounds					Qvalue	
3) Chloromethane	2.017	50	3764	Below Cal		90
11) Tert butyl alcohol	4.696	59	787	0.84 ug/l #		11
13) Acrolein	3.529	56	5108	Below Cal		98
16) Acetone	3.744	43	55522	16.78 ug/l		97
20) Methylene Chloride	4.452	84	2937	Below Cal #		79
25) 2-Butanone	6.758	43	4561	1.26 ug/l #		89
29) Tetrahydrofuran	7.142	42	473	0.20 ug/l #		33
31) Cyclohexane	7.579	56	9690	1.14 ug/l #		12
36) 1,1-Dichloropropene	7.584	75	34469	5.32 ug/l #		48
38) Carbon Tetrachloride	7.584	117	41655	6.39 ug/l #		16
49) 1,4-Dioxane	9.148	88	181	2.48 ug/l #		57
51) 4-Methyl-2-Pentanone	9.923	43	3103	0.44 ug/l #		60
52) Toluene	10.092	92	33992	2.83 ug/l		99
68) m/p-Xylenes	11.567	106	2609	0.32 ug/l		89
69) o-Xylene	11.889	106	3367	0.43 ug/l		97
71) Bromoform	12.345	173	2693	0.71 ug/l #		1
74) N-amyl acetate	12.020	43	34	3.20 ug/l #		1
76) 1,2,3-Trichloropropane	12.345	75	153431	30.38 ug/l #		100
78) n-propylbenzene	12.538	91	4003	0.22 ug/l		85
79) 2-Chlorotoluene	12.602	91	2293	0.20 ug/l #		40
80) 1,3,5-Trimethylbenzene	12.680	105	17244	1.23 ug/l		87
81) trans-1,4-Dichloro-2-b...	12.345	75	153431	91.35 ug/l #		12
84) 1,2,4-Trimethylbenzene	12.986	105	26972	1.98 ug/l		96
85) sec-Butylbenzene	13.115	105	5350	0.34 ug/l		88
86) p-Isopropyltoluene	13.182	119	10702	0.77 ug/l		88
90) Hexachloroethane	13.836	117	3094	1.23 ug/l #		5
92) 1,2-Dibromo-3-Chloropr...	14.193	75	458	0.44 ug/l #		1
95) Naphthalene	15.075	128	19440	2.52 ug/l #		96

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

Quant Time: Mar 27 01:49:29 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N032521W.M
Quant Title : SW846 8260
QLast Update : Fri Mar 26 16:26:01 2021
Response via : Initial Calibration

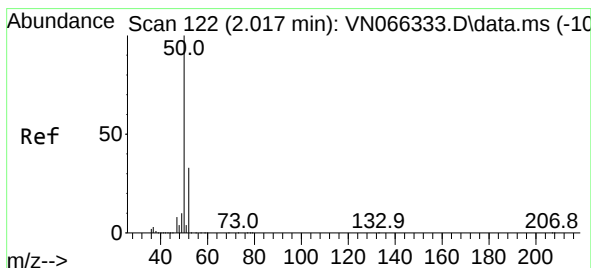
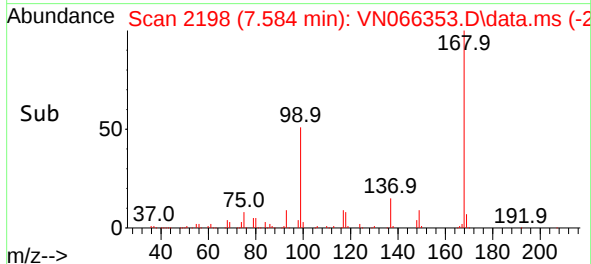
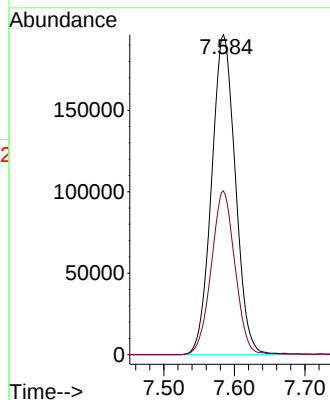
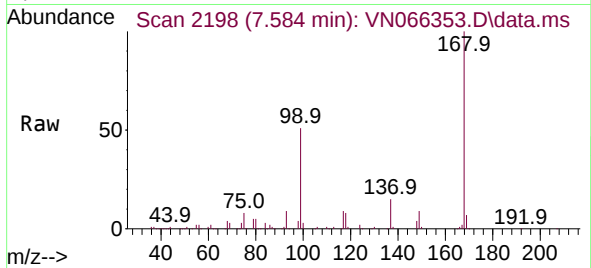




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.584 min Scan# 2198
Delta R.T. -0.001 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

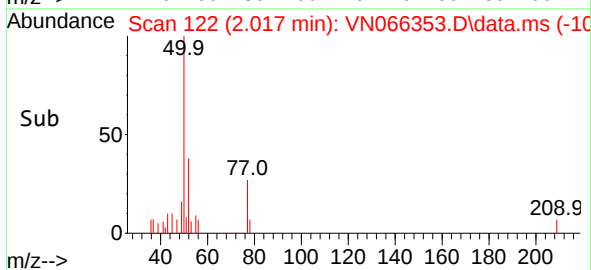
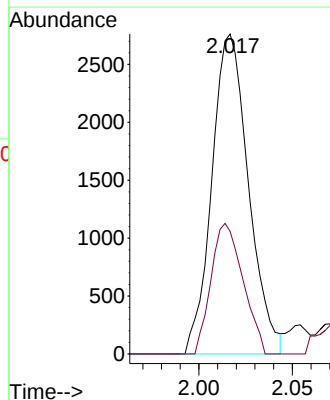
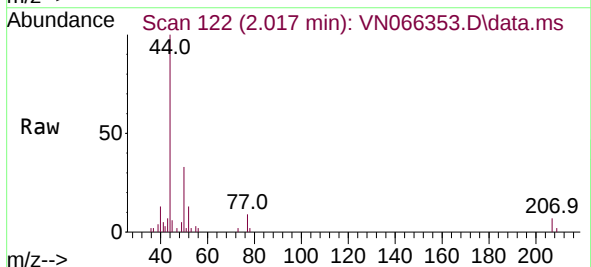
Instrument :
MSVOA_N
ClientSampleId :
FM5210

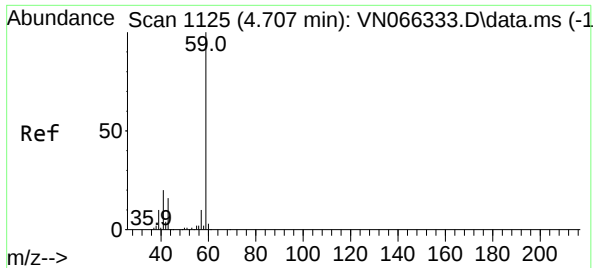
Tgt Ion:168 Resp: 460687
Ion Ratio Lower Upper
168 100
99 51.2 41.1 61.7



#3
Chloromethane
Concen: Below Cal
RT: 2.017 min Scan# 122
Delta R.T. -0.000 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

Tgt Ion: 50 Resp: 3764
Ion Ratio Lower Upper
50 100
52 38.3 26.2 39.2

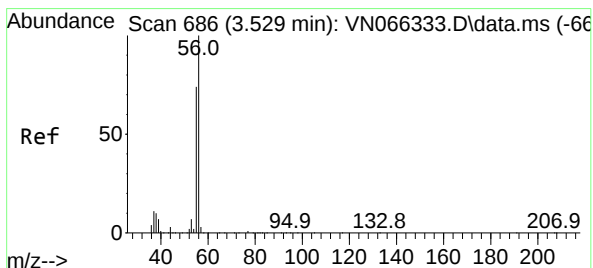
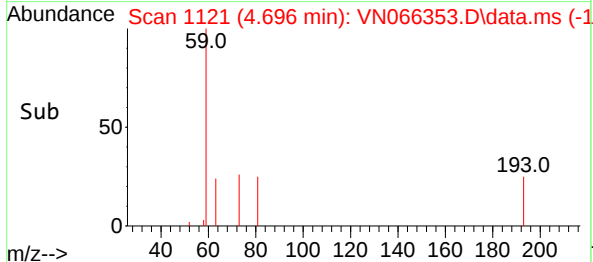
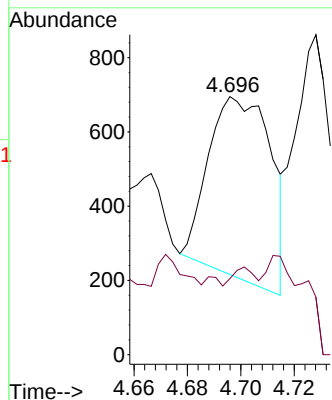
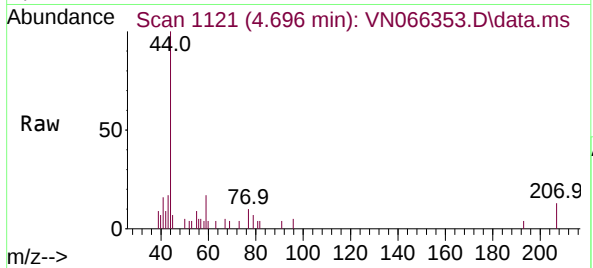




#11
Tert butyl alcohol
Concen: 0.84 ug/l
RT: 4.696 min Scan# 1121
Delta R.T. -0.011 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

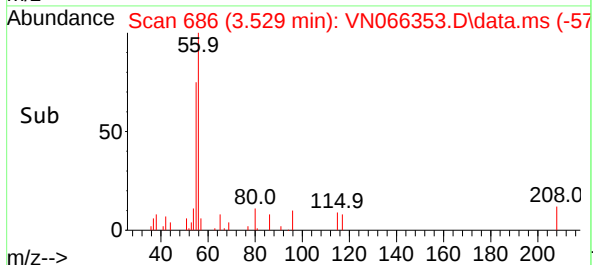
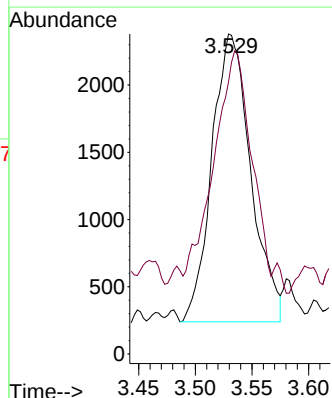
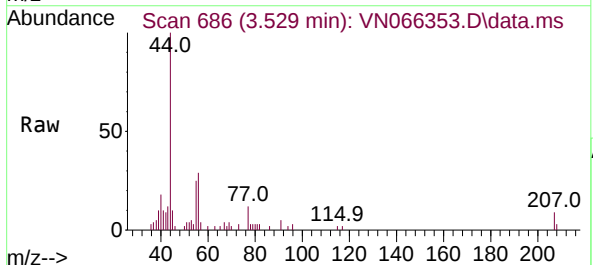
Instrument :
MSVOA_N
ClientSampleId :
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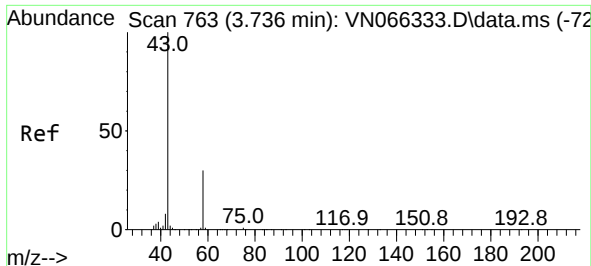
Tgt Ion: 59 Resp: 787
Ion Ratio Lower Upper
59 100
57 34.8 4.1 6.1#



#13
Acrolein
Concen: Below Cal
RT: 3.529 min Scan# 686
Delta R.T. 0.000 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

Tgt Ion: 56 Resp: 5108
Ion Ratio Lower Upper
56 100
55 74.1 57.9 86.9

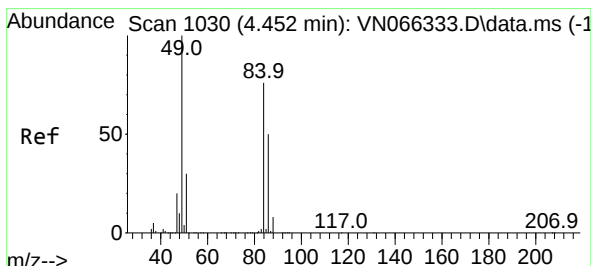
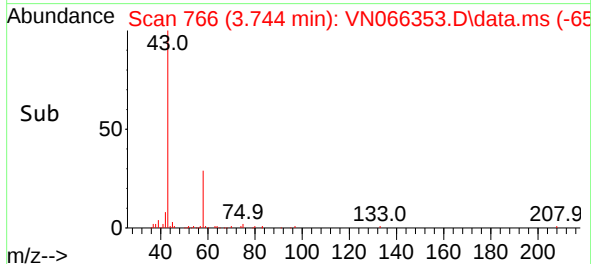
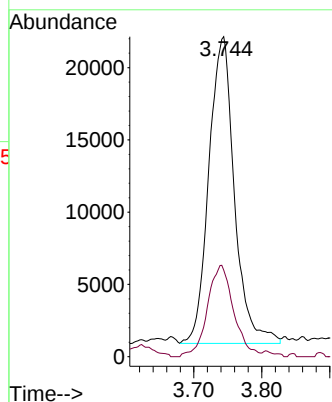
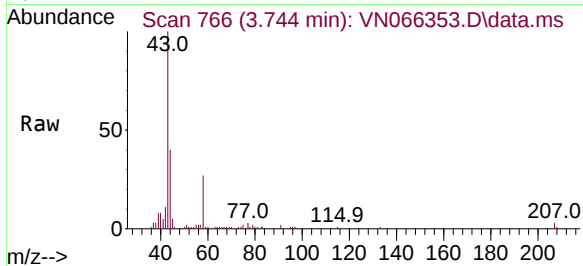




#16
Acetone
Concen: 16.78 ug/l
RT: 3.744 min Scan# 766
Delta R.T. 0.008 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

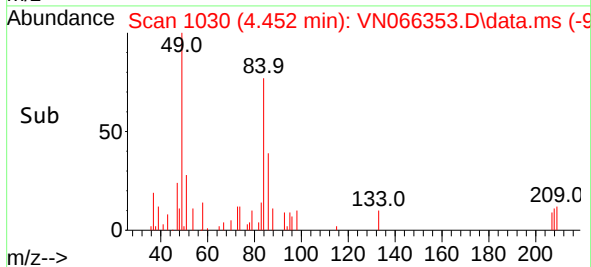
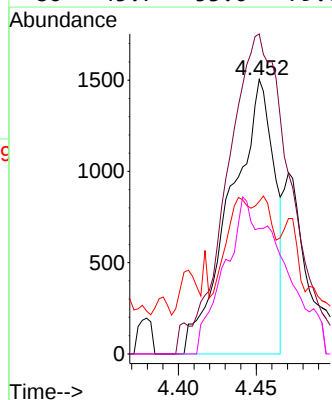
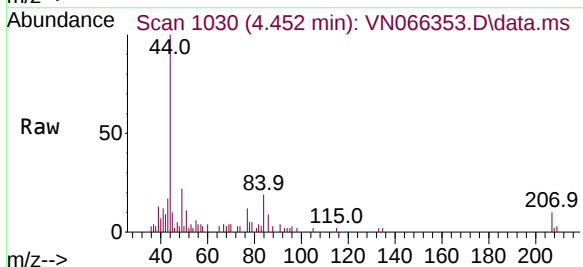
Instrument :
MSVOA_N
ClientSampleId :
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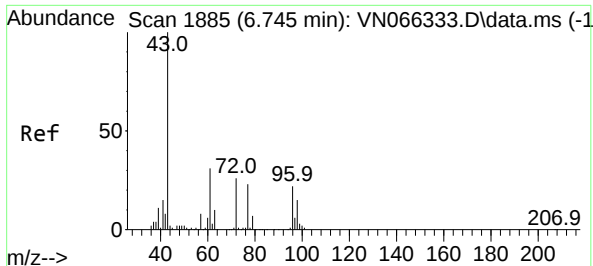
Tgt Ion: 43 Resp: 55522
Ion Ratio Lower Upper
43 100
58 28.2 23.8 35.8



#20
Methylene Chloride
Concen: Below Cal
RT: 4.452 min Scan# 1030
Delta R.T. -0.000 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

Tgt Ion: 84 Resp: 2937
Ion Ratio Lower Upper
84 100
49 106.1 105.0 157.6
51 32.4 31.6 47.4
86 45.7 53.0 79.6#

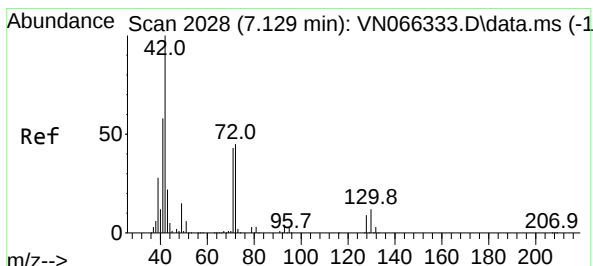
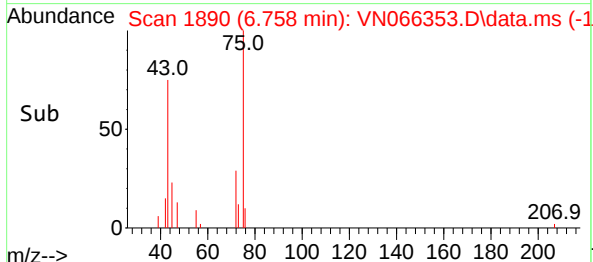
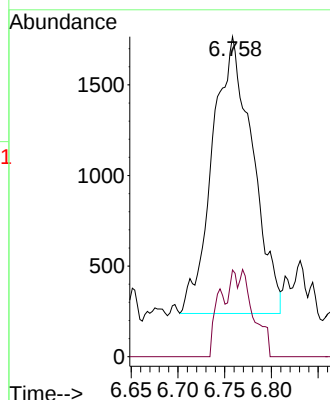
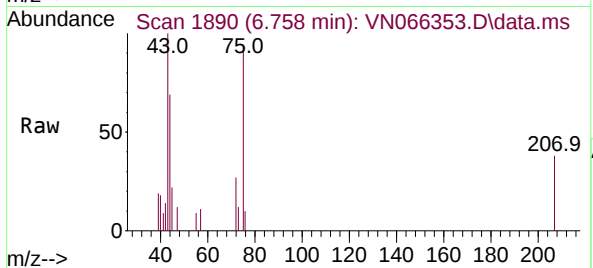




#25
2-Butanone
Concen: 1.26 ug/l
RT: 6.758 min Scan# 1890
Delta R.T. 0.013 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

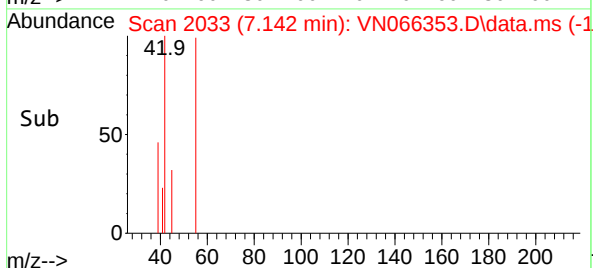
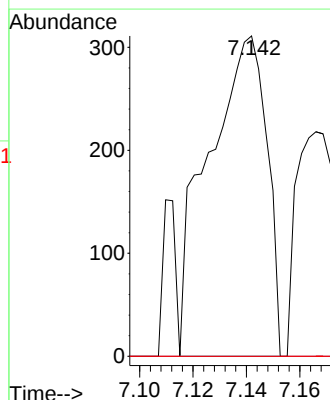
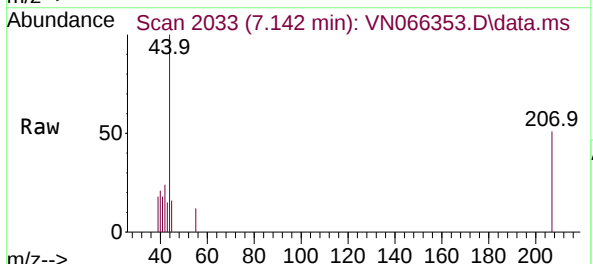
Instrument :
MSVOA_N
ClientSampled :
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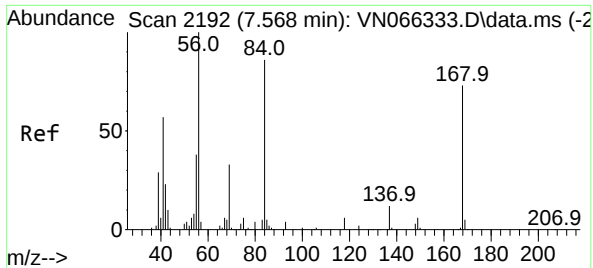
Tgt Ion: 43 Resp: 4561
Ion Ratio Lower Upper
43 100
72 31.3 20.7 31.1#



#29
Tetrahydrofuran
Concen: 0.20 ug/l
RT: 7.142 min Scan# 2033
Delta R.T. 0.013 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

Tgt Ion: 42 Resp: 473
Ion Ratio Lower Upper
42 100
72 0.0 35.2 52.8#
71 0.0 33.1 49.7#

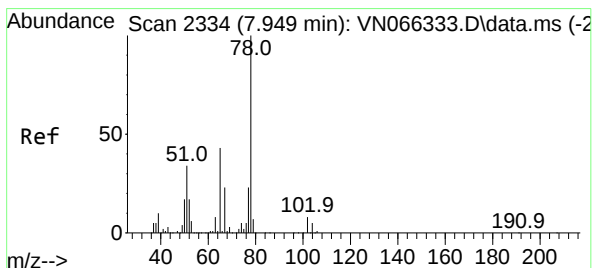
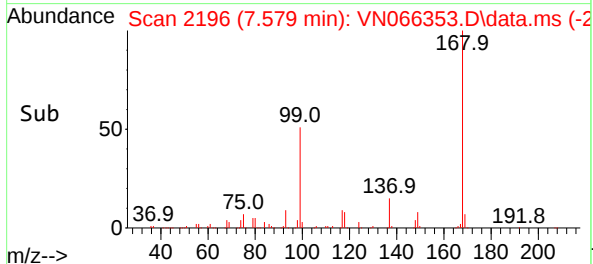
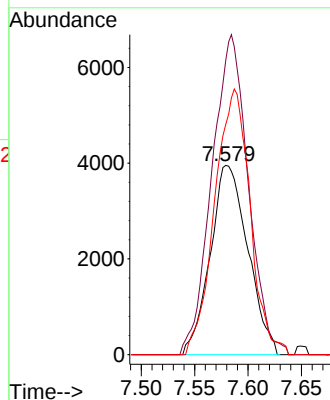
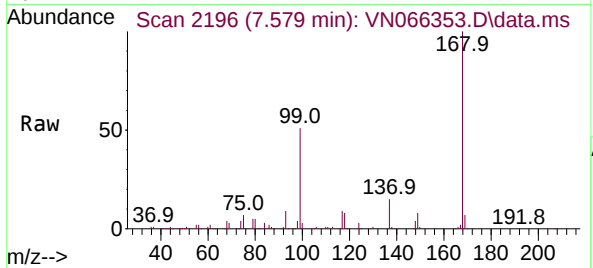




#31
Cyclohexane
Concen: 1.14 ug/l
RT: 7.579 min Scan# 2196
Delta R.T. 0.011 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

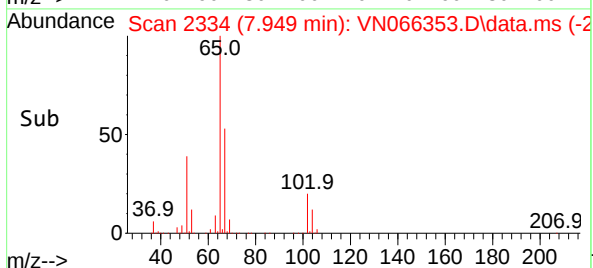
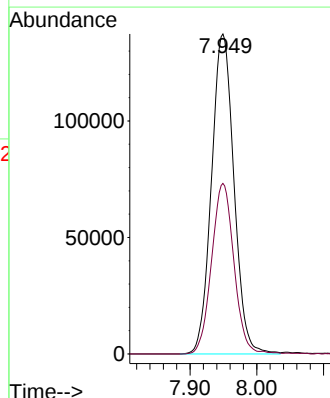
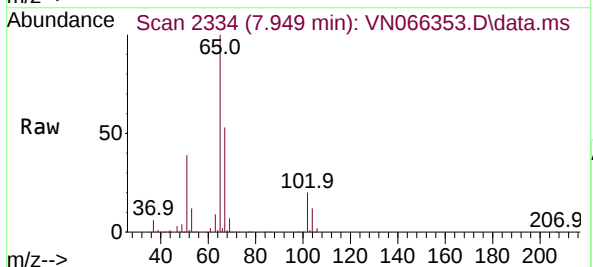
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ClientSampleId :
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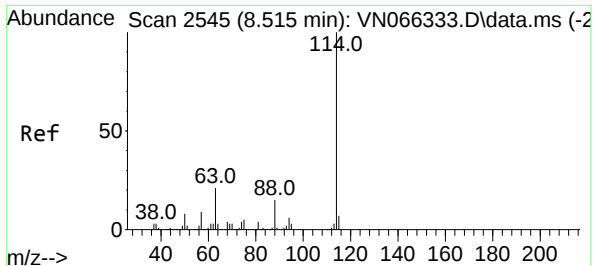
Tgt Ion: 56 Resp: 9690
Ion Ratio Lower Upper
56 100
69 155.8 26.6 40.0#
84 121.7 68.7 103.1#



#33
1,2-Dichloroethane-d4
Concen: 52.43 ug/l
RT: 7.949 min Scan# 2334
Delta R.T. 0.000 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

Tgt Ion: 65 Resp: 321075
Ion Ratio Lower Upper
65 100
67 53.1 0.0 105.2

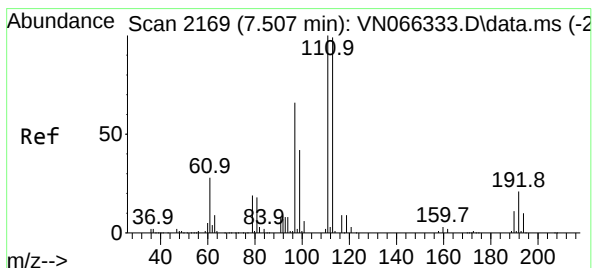
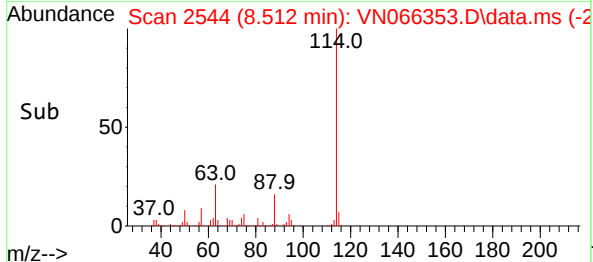
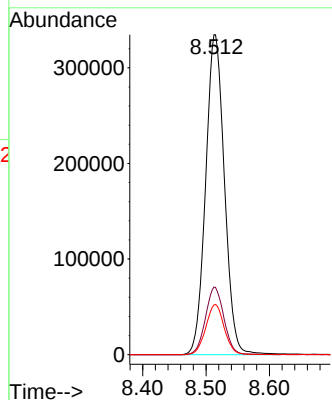
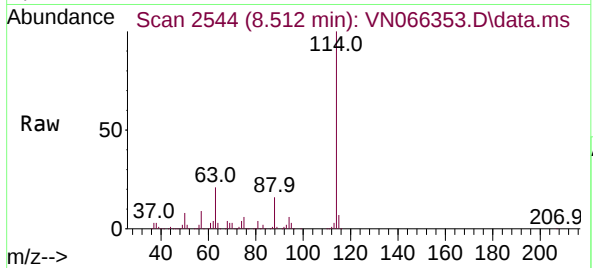




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.512 min Scan# 2544
Delta R.T. -0.003 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

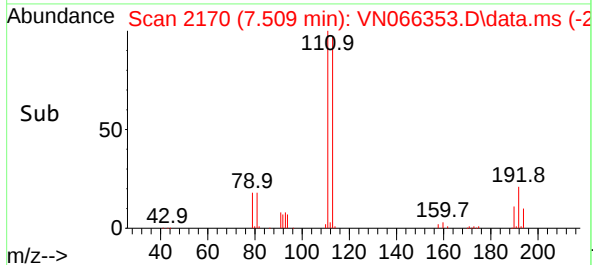
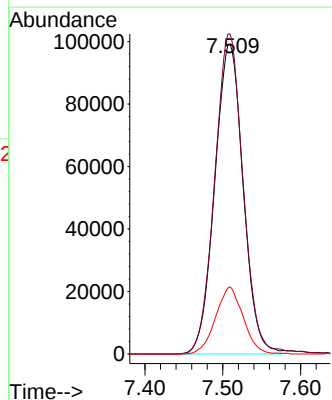
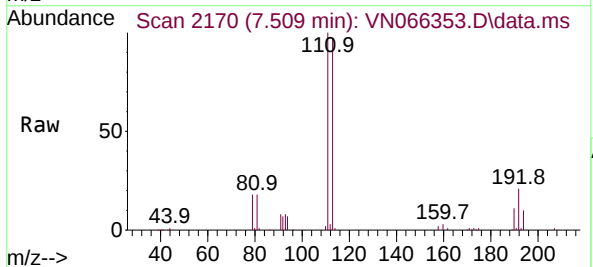
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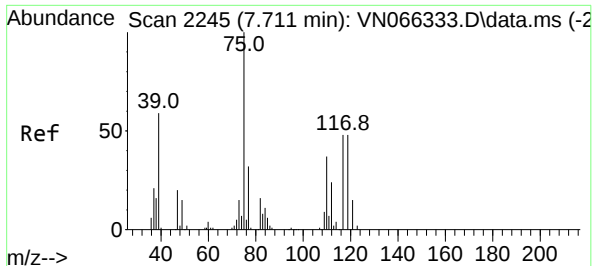
Tgt Ion:114 Resp: 689898
Ion Ratio Lower Upper
114 100
63 21.2 0.0 42.0
88 15.6 0.0 31.0



#35
Dibromofluoromethane
Concen: 54.78 ug/l
RT: 7.509 min Scan# 2170
Delta R.T. 0.002 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

Tgt Ion:113 Resp: 250546
Ion Ratio Lower Upper
113 100
111 103.9 81.8 122.8
192 21.1 17.1 25.7



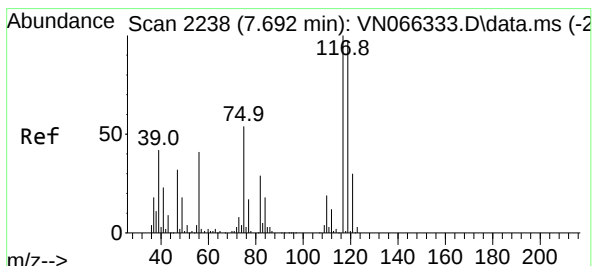
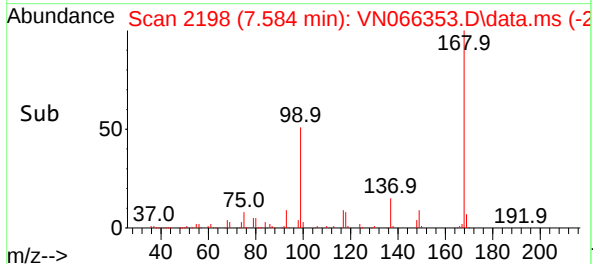
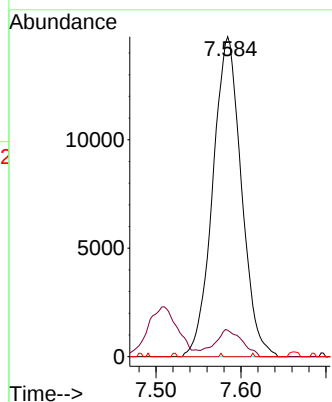
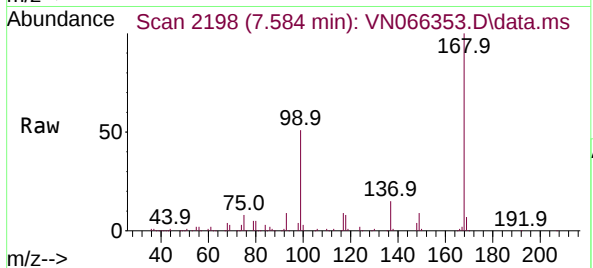


#36

1,1-Dichloropropene
Concen: 5.32 ug/l
RT: 7.584 min Scan# 2198
Delta R.T. -0.126 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

Instrument :
MSVOA_N
ClientSampled :
FM5210

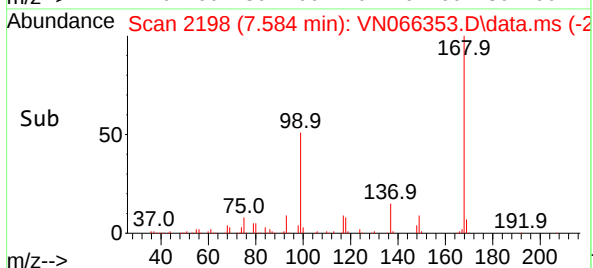
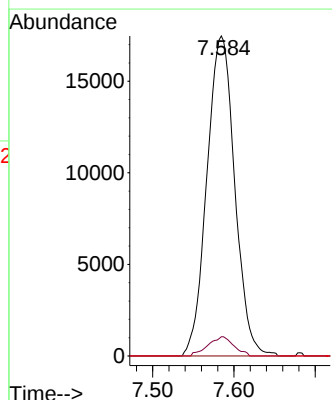
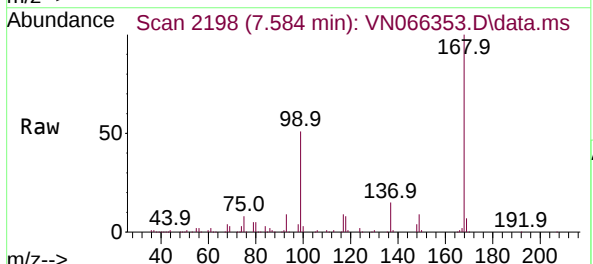
Tgt Ion: 75 Resp: 34469
Ion Ratio Lower Upper
75 100
110 8.0 18.1 54.3#
77 0.1 25.0 37.4#

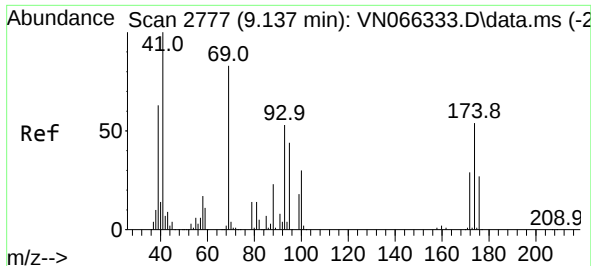


#38

Carbon Tetrachloride
Concen: 6.39 ug/l
RT: 7.584 min Scan# 2198
Delta R.T. -0.107 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

Tgt Ion: 117 Resp: 41655
Ion Ratio Lower Upper
117 100
119 6.0 77.2 115.8#
121 0.0 24.2 36.4#





#49

1,4-Dioxane

Concen: 2.48 ug/l

RT: 9.148 min Scan# 2781

Delta R.T. 0.011 min

Lab File: VN066353.D

Acq: 26 Mar 2021 16:46

Instrument :

MSVOA_N

ClientSampleId :

FM5210

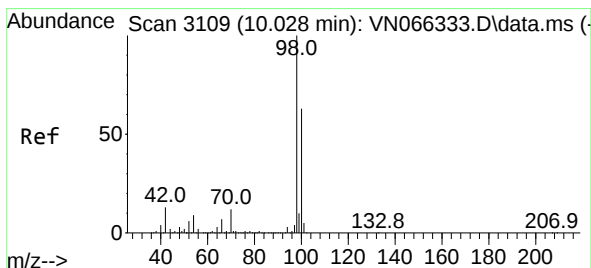
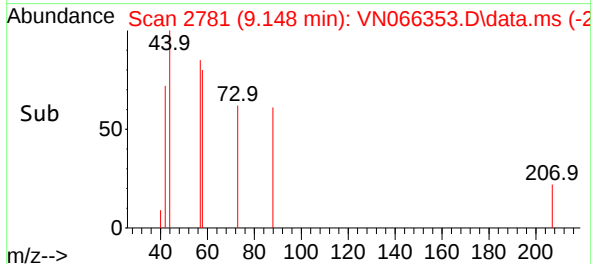
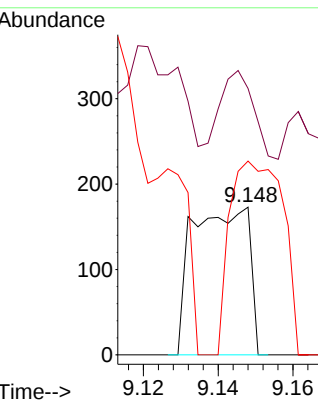
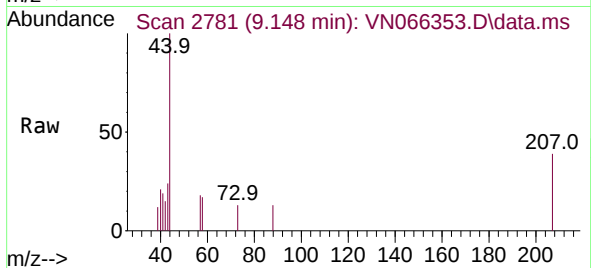
Tgt Ion: 88 Resp: 181

Ion Ratio Lower Upper

88 100

43 34.3 28.2 42.4

58 123.8 56.6 84.8#



#50

Toluene-d8

Concen: 55.40 ug/l

RT: 10.028 min Scan# 3109

Delta R.T. -0.000 min

Lab File: VN066353.D

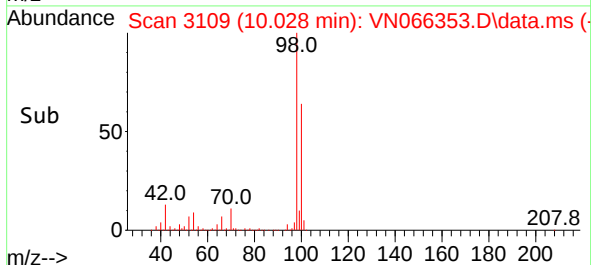
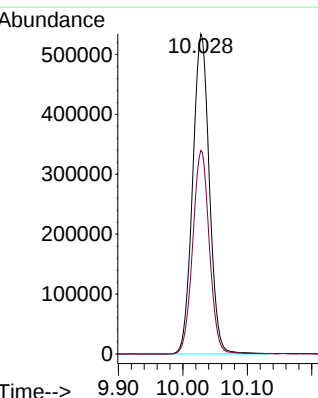
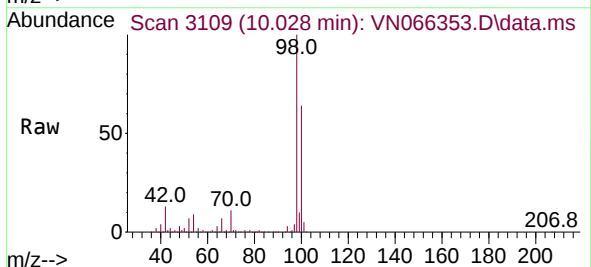
Acq: 26 Mar 2021 16:46

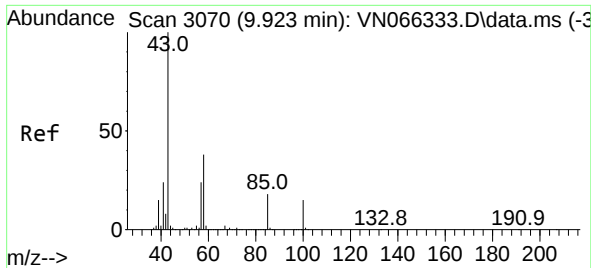
Tgt Ion: 98 Resp: 961093

Ion Ratio Lower Upper

98 100

100 63.3 50.5 75.7

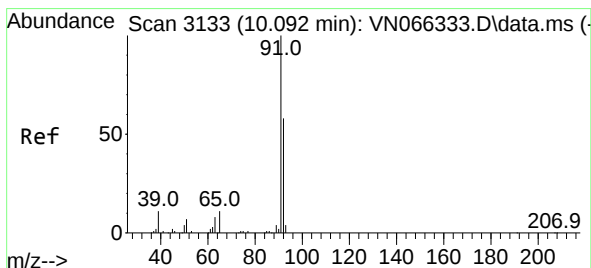
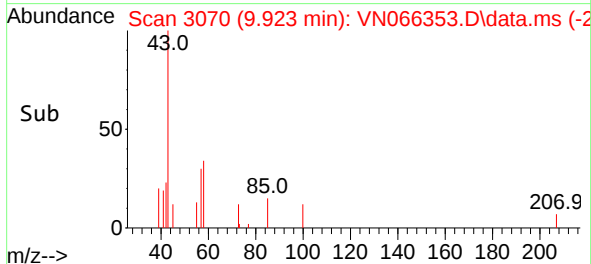
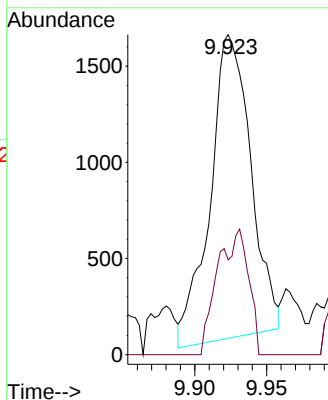
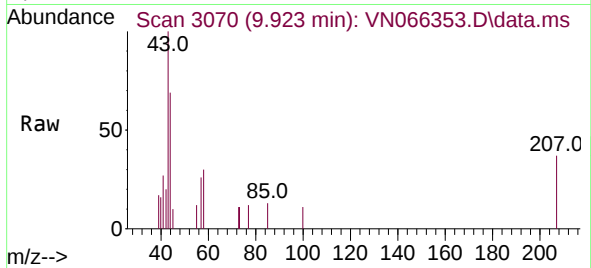




#51
4-Methyl-2-Pentanone
Concen: 0.44 ug/l
RT: 9.923 min Scan# 3070
Delta R.T. -0.000 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

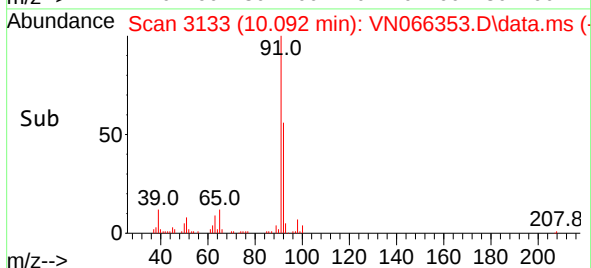
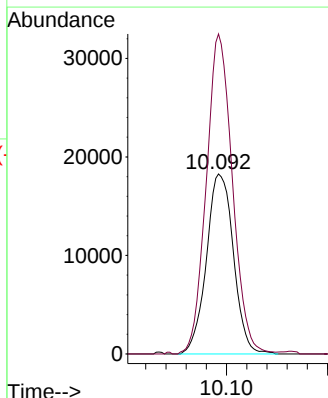
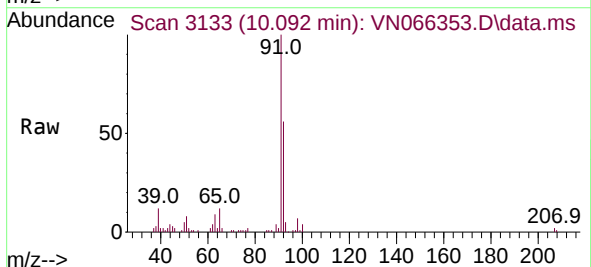
Instrument :
MSVOA_N
ClientSampleId :
FM5210

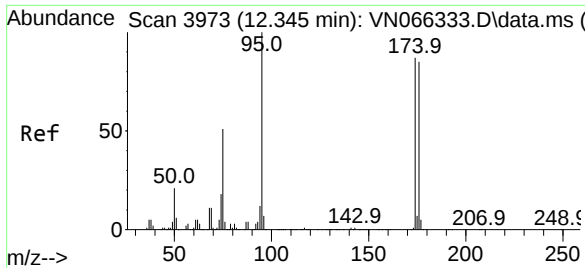
Tgt Ion: 43 Resp: 3103
Ion Ratio Lower Upper
43 100
58 14.0 30.8 46.2#



#52
Toluene
Concen: 2.83 ug/l
RT: 10.092 min Scan# 3133
Delta R.T. -0.000 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

Tgt Ion: 92 Resp: 33992
Ion Ratio Lower Upper
92 100
91 171.8 138.8 208.2

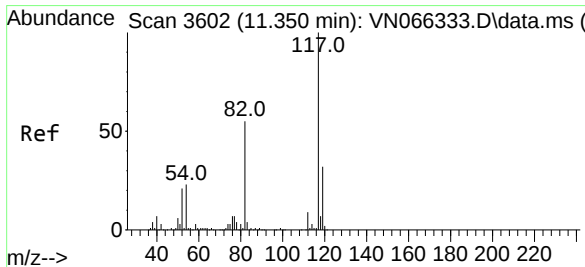
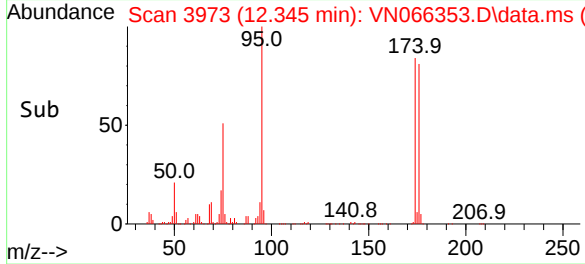
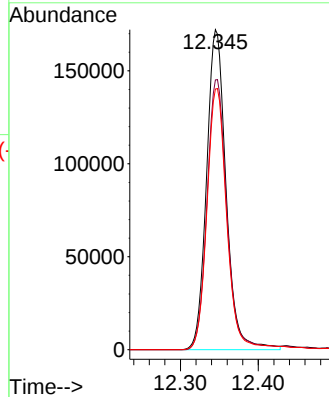
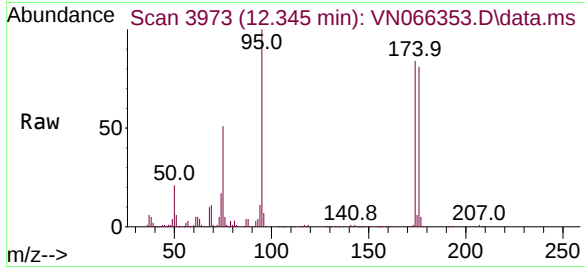




#62
4-Bromofluorobenzene
Concen: 49.84 ug/l
RT: 12.345 min Scan# 3973
Delta R.T. -0.000 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

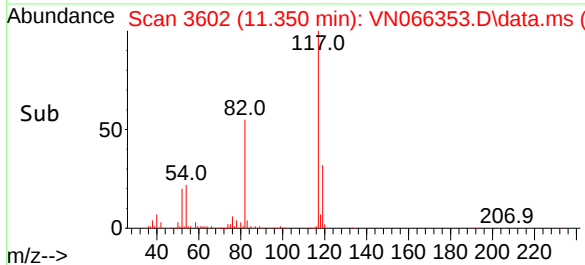
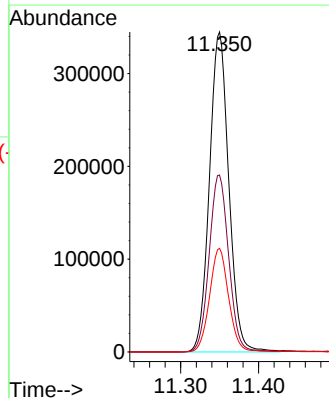
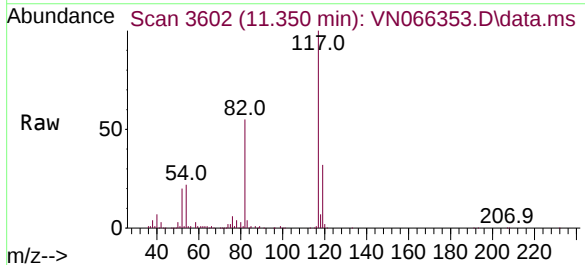
Instrument :
MSVOA_N
ClientSampleId :
FM5210

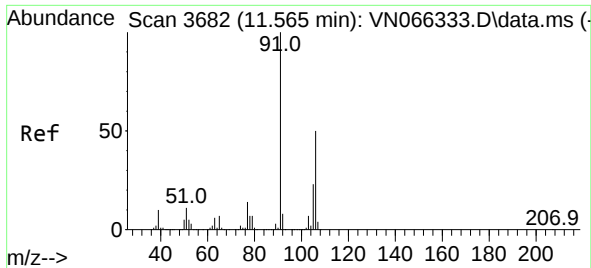
Tgt Ion:	95	Resp:	300322
Ion Ratio	Lower	Upper	
95	100		
174	86.1	0.0	172.2
176	83.2	0.0	167.8



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.350 min Scan# 3602
Delta R.T. -0.000 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

Tgt Ion:	117	Resp:	595148
Ion Ratio	Lower	Upper	
117	100		
82	55.3	44.2	66.4
119	32.4	25.8	38.6

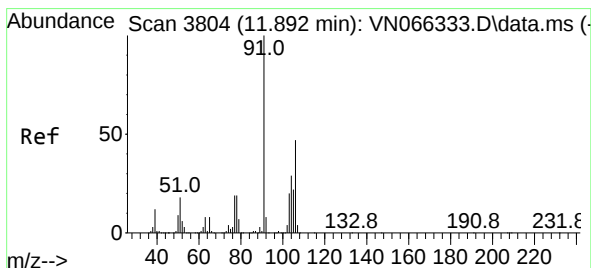
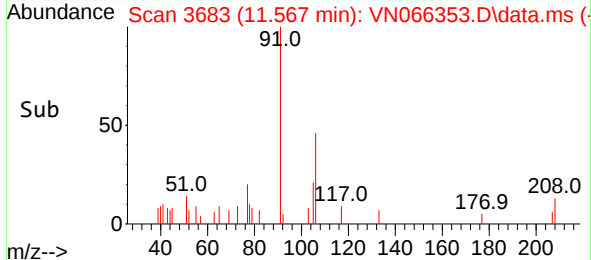
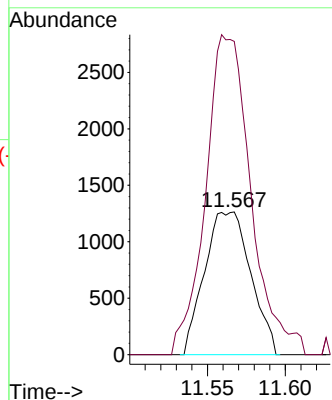
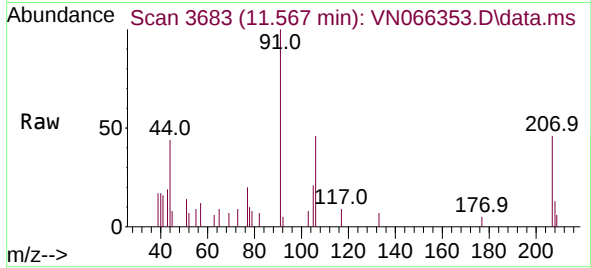




#68
m/p-Xylenes
Concen: 0.32 ug/l
RT: 11.567 min Scan# 3683
Delta R.T. 0.003 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

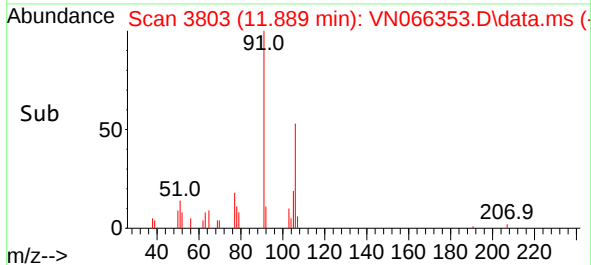
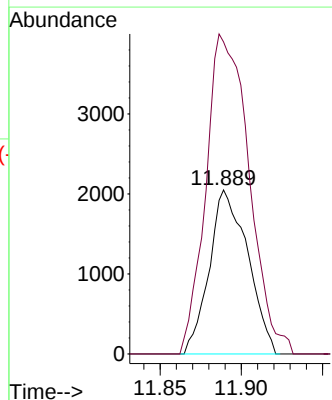
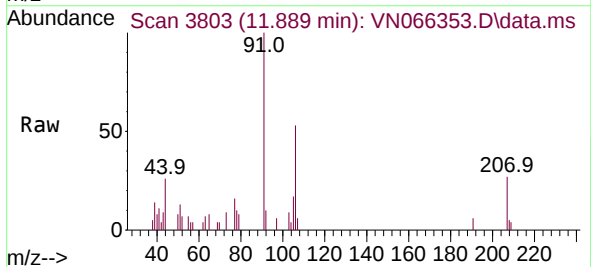
Instrument :
MSVOA_N
ClientSampled :
FM5210

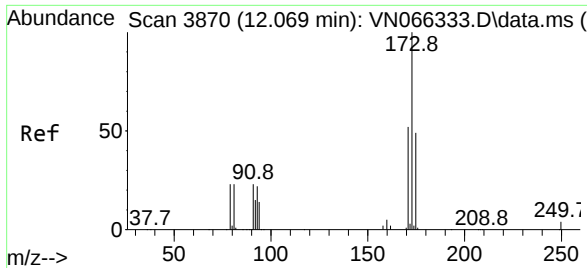
Tgt Ion:106 Resp: 2609
Ion Ratio Lower Upper
106 100
91 219.8 162.7 244.1



#69
o-Xylene
Concen: 0.43 ug/l
RT: 11.889 min Scan# 3803
Delta R.T. -0.003 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

Tgt Ion:106 Resp: 3367
Ion Ratio Lower Upper
106 100
91 219.0 107.1 321.4

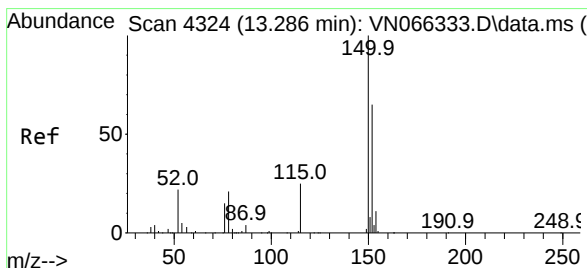
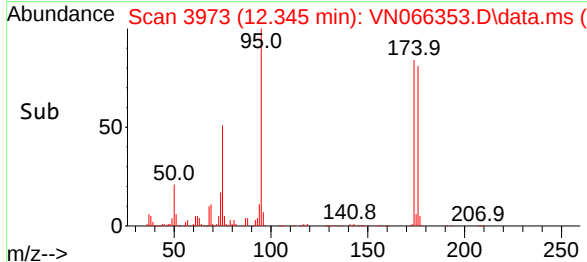
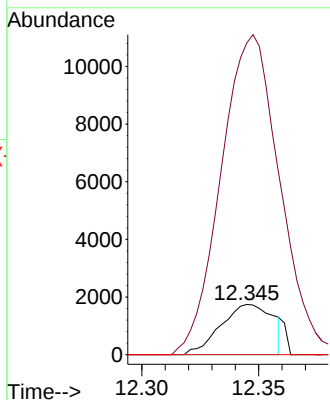
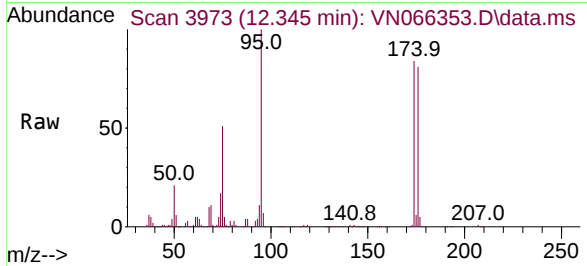




#71
Bromoform
Concen: 0.71 ug/l
RT: 12.345 min Scan# 3973
Delta R.T. 0.276 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

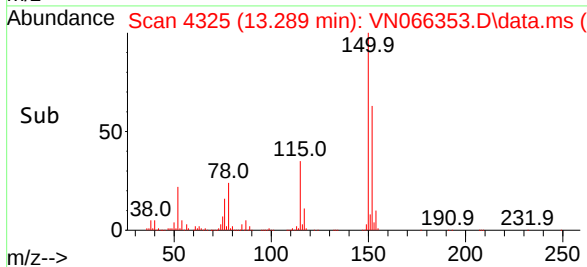
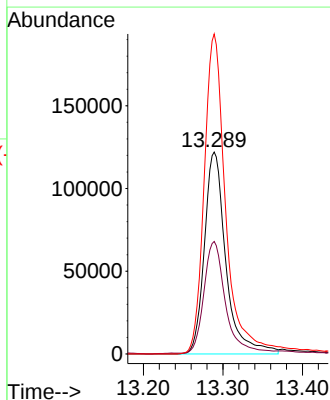
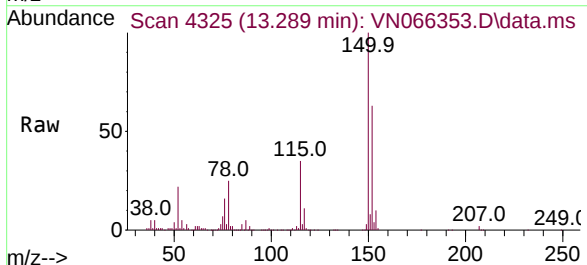
Instrument :
MSVOA_N
ClientSampled :
FM5210

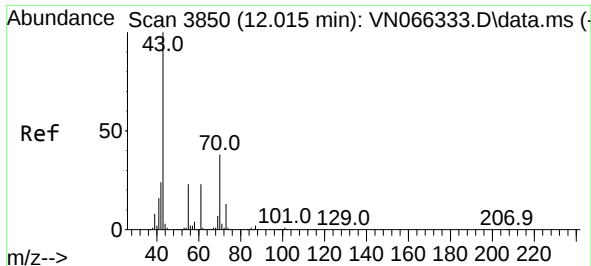
Tgt Ion:173 Resp: 2693
Ion Ratio Lower Upper
173 100
175 623.1 24.3 72.8#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.289 min Scan# 4325
Delta R.T. 0.003 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

Tgt Ion:152 Resp: 230194
Ion Ratio Lower Upper
152 100
115 54.8 27.8 83.4
150 160.0 0.0 348.4



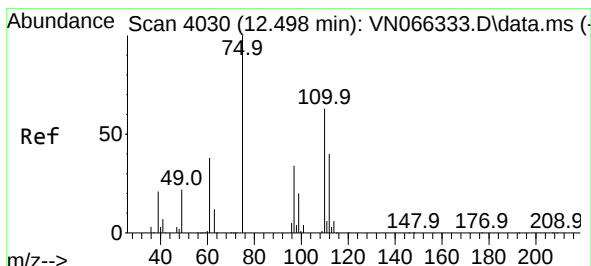
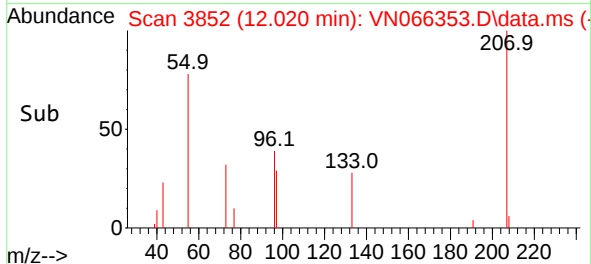
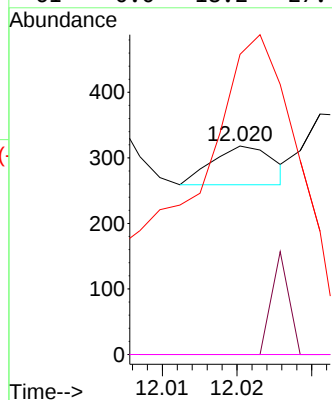
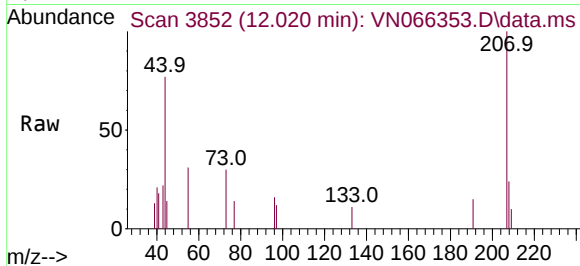


#74
N-amy1 acetate
Concen: 3.20 ug/l
RT: 12.020 min Scan# 3852
Delta R.T. 0.005 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

Instrument :
MSVOA_N
ClientSampled :
FM5210

Tgt Ion: 43 Resp: 34

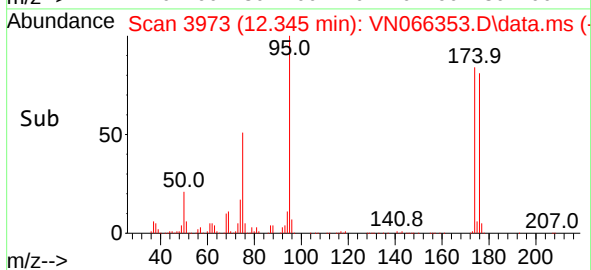
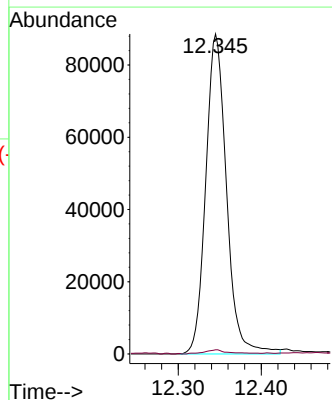
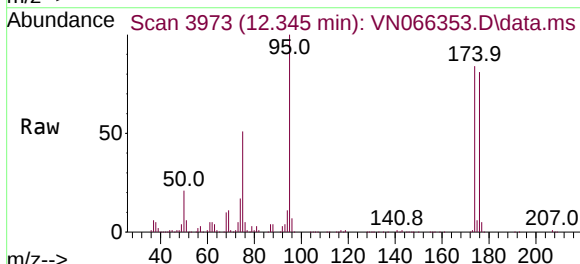
Ion	Ratio	Lower	Upper
43	100		
70	73.5	31.2	46.8#
55	1450.0	18.6	28.0#
61	0.0	18.2	27.4#

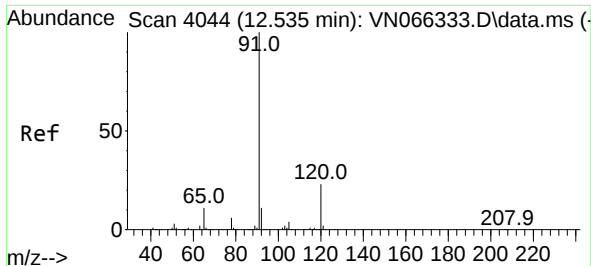


#76
1,2,3-Trichloropropane
Concen: 30.38 ug/l
RT: 12.345 min Scan# 3973
Delta R.T. -0.153 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

Tgt Ion: 75 Resp: 153431

Ion	Ratio	Lower	Upper
75	100		
77	1.3	0.0	0.0#

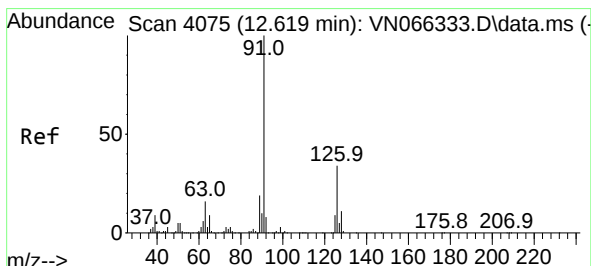
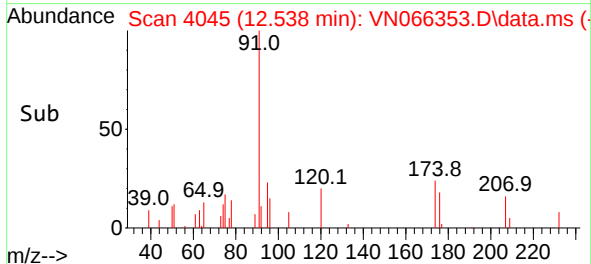
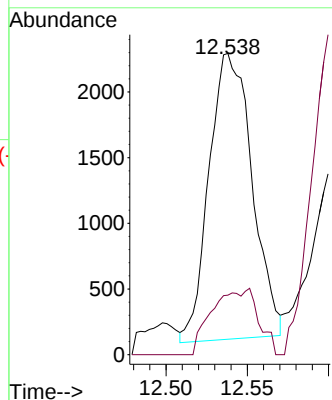
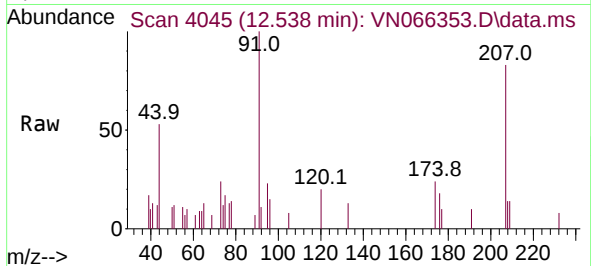




#78
n-propylbenzene
Concen: 0.22 ug/l
RT: 12.538 min Scan# 4045
Delta R.T. 0.003 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

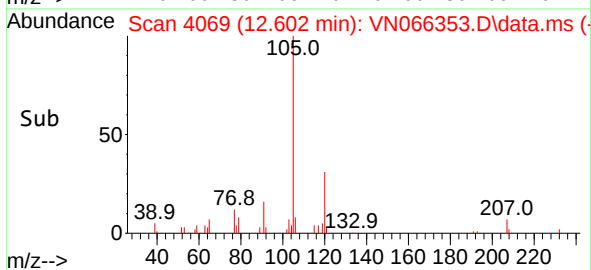
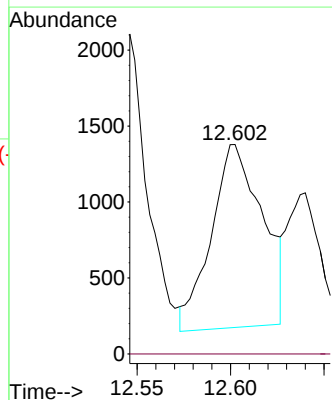
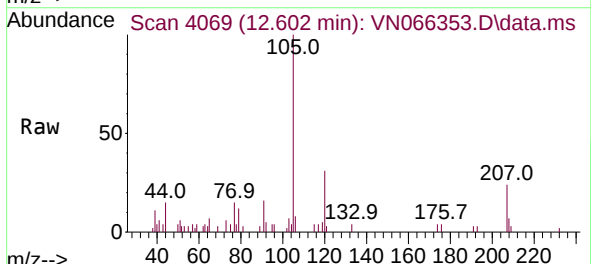
Instrument :
MSVOA_N
ClientSampled :
FM5210

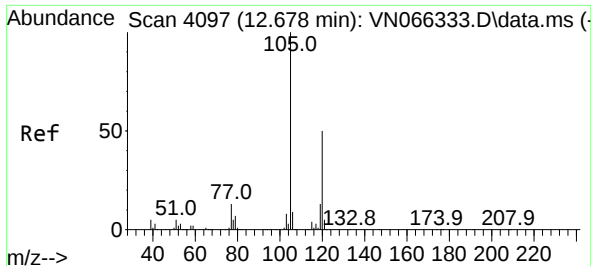
Tgt Ion: 91 Resp: 4003
Ion Ratio Lower Upper
91 100
120 16.2 11.7 35.1



#79
2-Chlorotoluene
Concen: 0.20 ug/l
RT: 12.602 min Scan# 4069
Delta R.T. -0.016 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

Tgt Ion: 91 Resp: 2293
Ion Ratio Lower Upper
91 100
126 0.0 17.2 51.5#

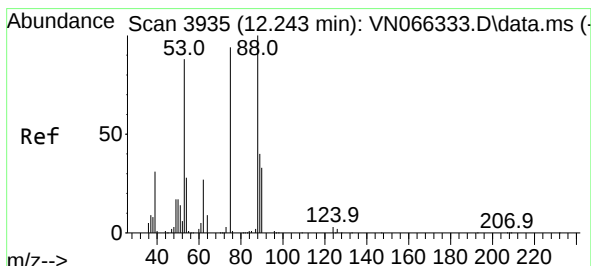
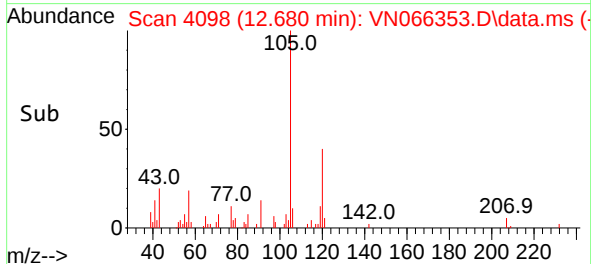
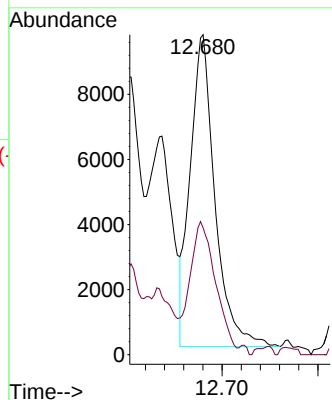
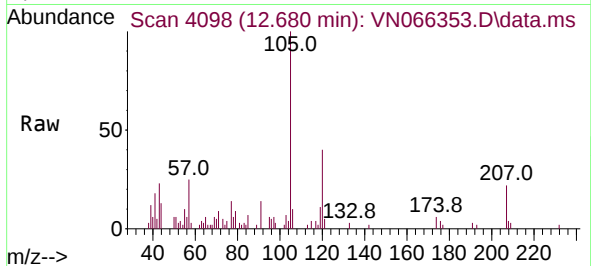




#80
1,3,5-Trimethylbenzene
Concen: 1.23 ug/l
RT: 12.680 min Scan# 4098
Delta R.T. 0.003 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

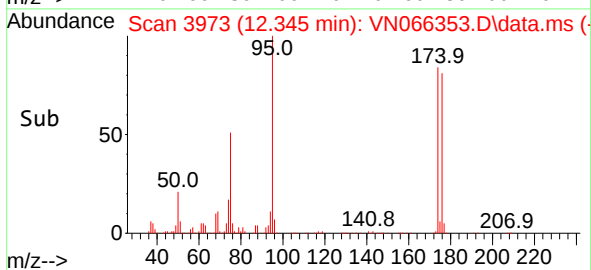
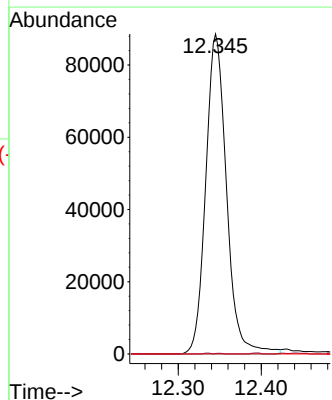
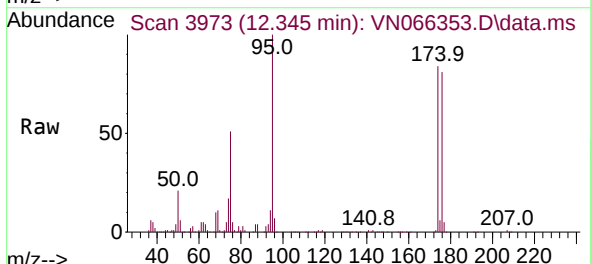
Instrument :
MSVOA_N
ClientSampled :
FM5210

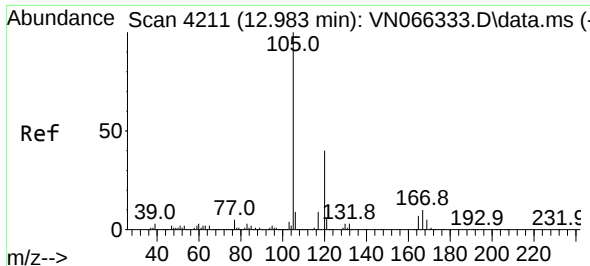
Tgt Ion:105 Resp: 17244
Ion Ratio Lower Upper
105 100
120 40.1 24.5 73.5



#81
trans-1,4-Dichloro-2-butene
Concen: 91.35 ug/l
RT: 12.345 min Scan# 3973
Delta R.T. 0.102 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

Tgt Ion: 75 Resp: 153431
Ion Ratio Lower Upper
75 100
53 0.1 76.1 114.1#
89 0.0 35.7 53.5#

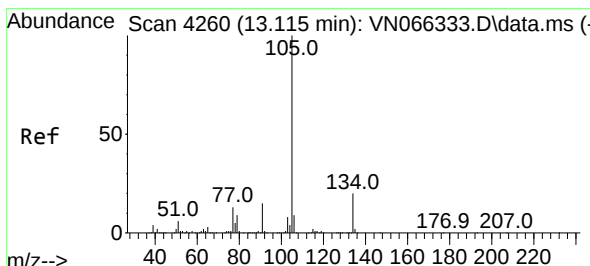
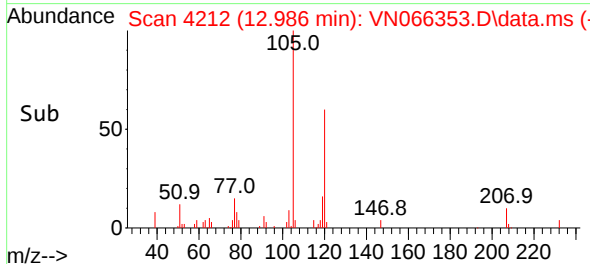
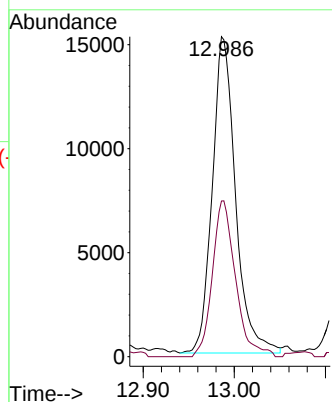
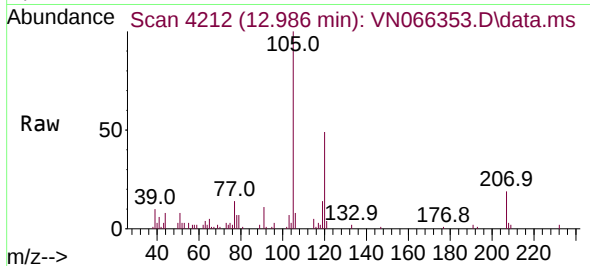




#84
1,2,4-Trimethylbenzene
Concen: 1.98 ug/l
RT: 12.986 min Scan# 4212
Delta R.T. 0.003 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

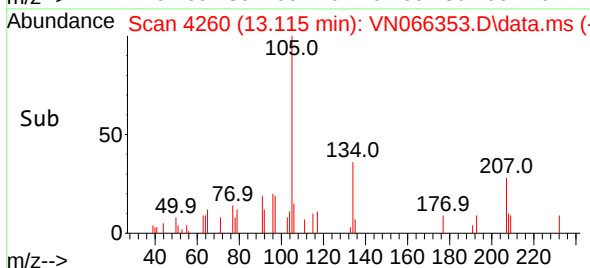
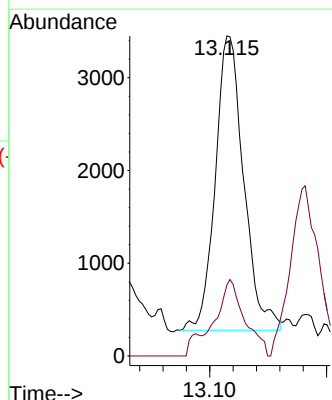
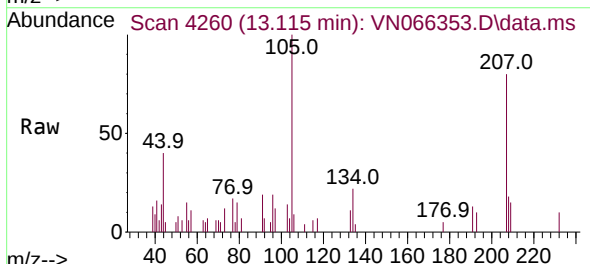
Instrument :
MSVOA_N
ClientSampled :
FM5210

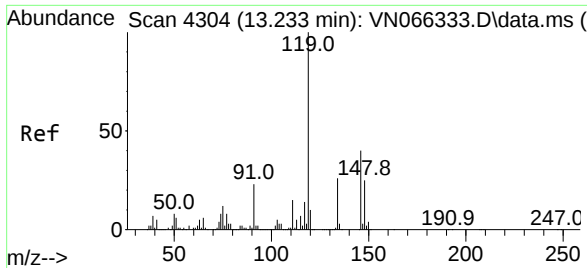
Tgt Ion:105 Resp: 26972
Ion Ratio Lower Upper
105 100
120 49.0 23.1 69.2



#85
sec-Butylbenzene
Concen: 0.34 ug/l
RT: 13.115 min Scan# 4260
Delta R.T. -0.000 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

Tgt Ion:105 Resp: 5350
Ion Ratio Lower Upper
105 100
134 25.4 9.9 29.7

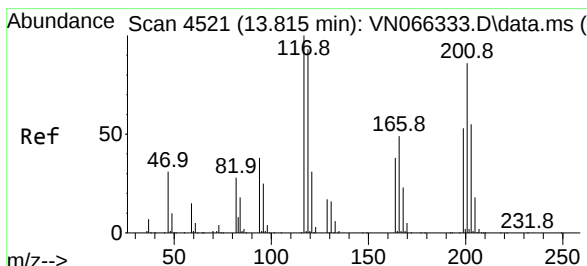
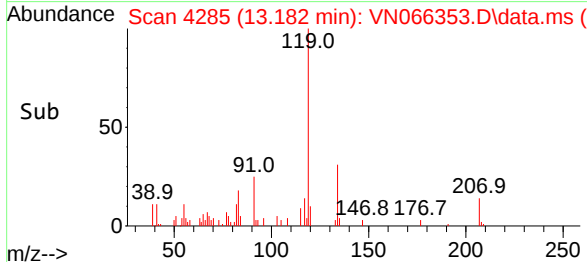
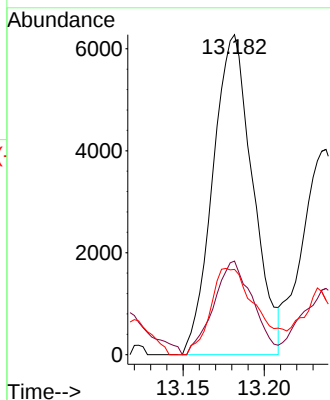
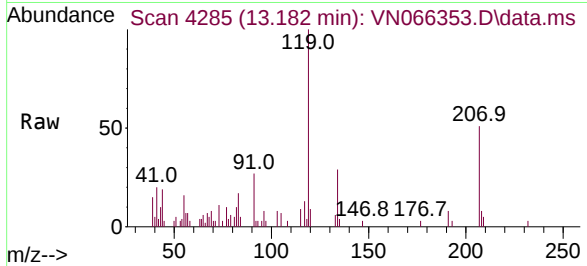




#86
p-Isopropyltoluene
Concen: 0.77 ug/l
RT: 13.182 min Scan# 4285
Delta R.T. -0.051 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

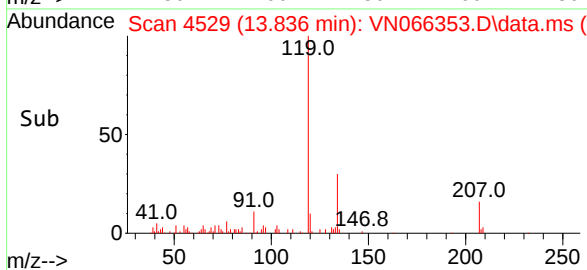
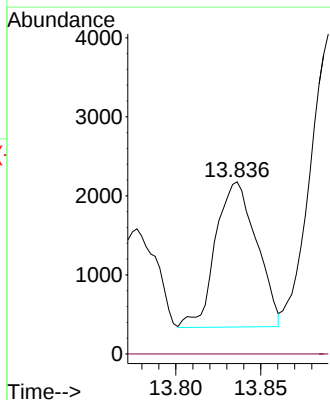
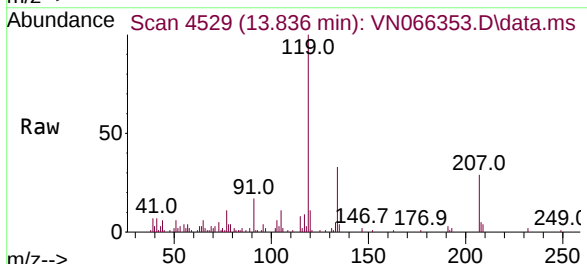
Instrument :
MSVOA_N
ClientSampleId :
FM5210

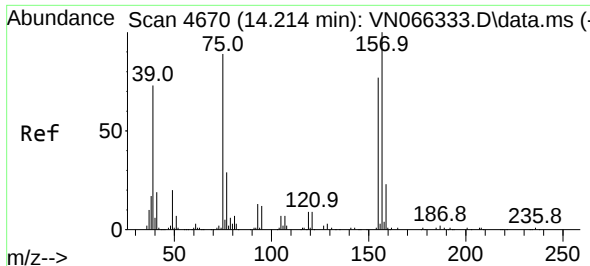
Tgt Ion:119 Resp: 10702
Ion Ratio Lower Upper
119 100
134 28.7 12.9 38.7
91 31.9 11.5 34.5



#90
Hexachloroethane
Concen: 1.23 ug/l
RT: 13.836 min Scan# 4529
Delta R.T. 0.021 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

Tgt Ion:117 Resp: 3094
Ion Ratio Lower Upper
117 100
201 0.0 44.0 131.8#

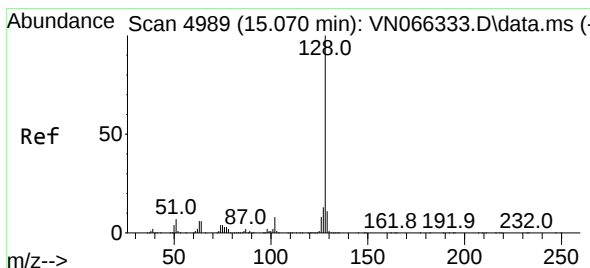
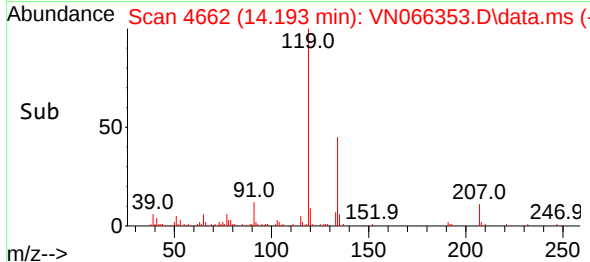
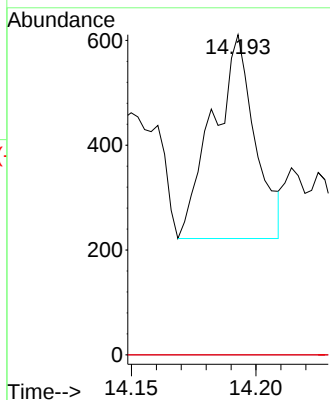
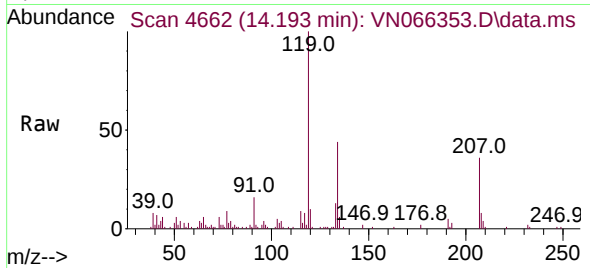




#92
1,2-Dibromo-3-Chloropropane
Concen: 0.44 ug/l
RT: 14.193 min Scan# 4662
Delta R.T. -0.022 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

Instrument :
MSVOA_N
ClientSampled :
FM5210

Tgt Ion: 75 Resp: 458
Ion Ratio Lower Upper
75 100
155 0.0 43.8 131.3#
157 0.0 57.6 172.8#



#95
Naphthalene
Concen: 2.52 ug/l
RT: 15.075 min Scan# 4991
Delta R.T. 0.005 min
Lab File: VN066353.D
Acq: 26 Mar 2021 16:46

Tgt Ion:128 Resp: 19440
Ion Ratio Lower Upper
128 100
127 12.0 10.5 15.7
129 8.2 8.5 12.7#

