

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042021\
 Data File : VN066683.D
 Acq On : 20 Apr 2021 15:40
 Operator : JC/MD
 Sample : M2032-03 50X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 21 10:08:41 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042021W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Apr 20 12:52:17 2021
 Response via : Initial Calibration

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

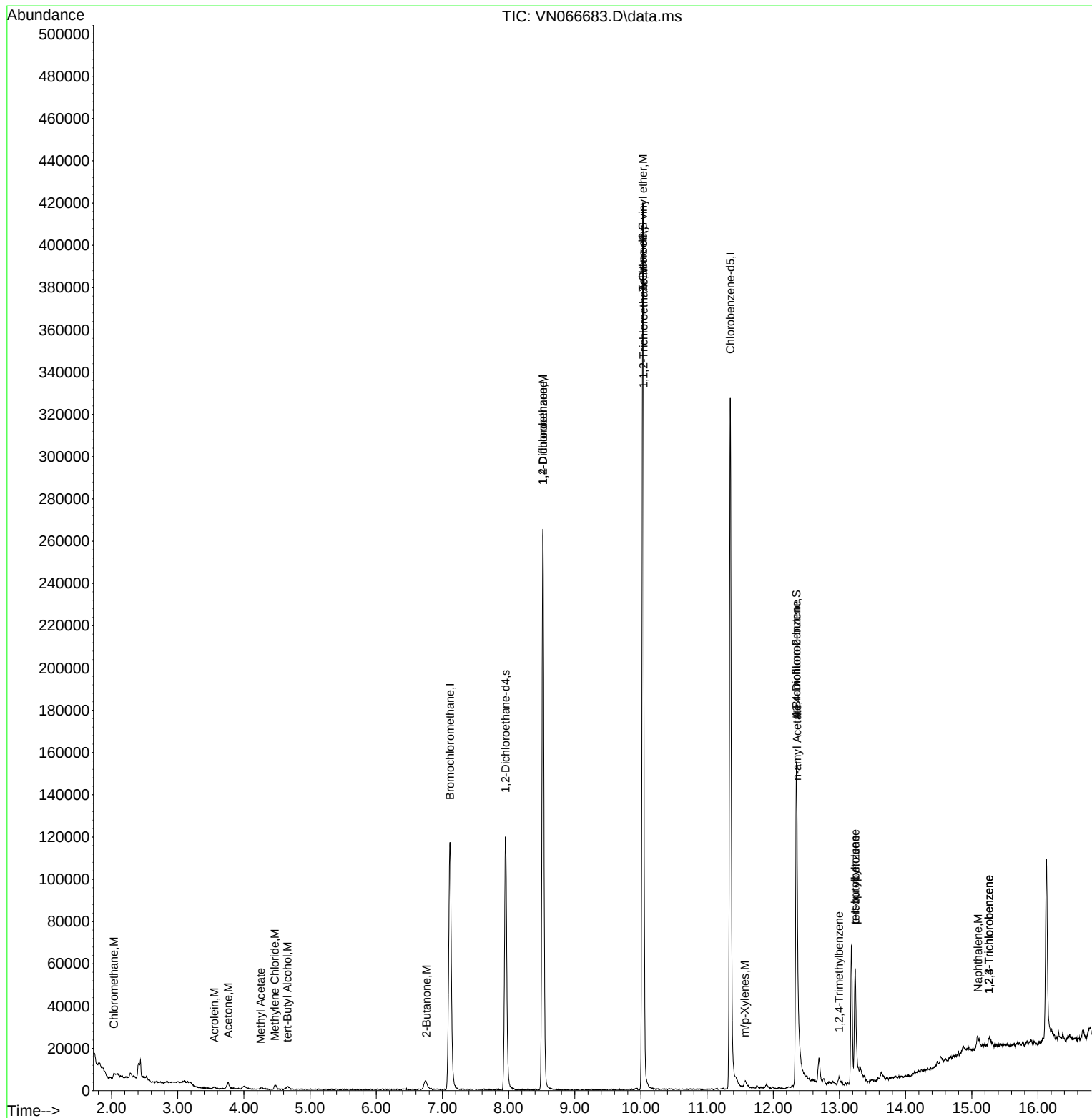
Internal Standards						
1) Bromochloromethane	7.116	128	47622	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.519	114	242997	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.351	117	206696	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.953	65	104526	30.46	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.53%
60) 4-Bromofluorobenzene	12.349	95	75006	23.15	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	77.17%
63) Toluene-d8	10.029	98	301223	31.67	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	105.57%
Target Compounds						
3) Chloromethane	2.034	50	1276	0.35	ug/l	Qvalue 95
12) Methyl Acetate	4.252	43	823	0.24	ug/l #	53
13) Acrolein	3.552	56	688	1.44	ug/l #	64
15) Acetone	3.761	58	1420	3.65	ug/l #	47
18) Methylene Chloride	4.467	84	724	0.23	ug/l #	71
23) tert-Butyl Alcohol	4.657	59	138	0.27	ug/l #	100
30) 2-Butanone	6.757	43	437	0.24	ug/l #	56
36) 1,2-Dichloroethane	8.519	62	7459	1.84	ug/l #	76
47) n-amyl Acetate	12.360	43	144	19.46	ug/l	93
50) 1,1,2-Trichloroethane	10.040	97	9645	3.25	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.032	63	152	0.24	ug/l #	1
67) m/p-Xylenes	11.571	106	1549	0.33	ug/l	88
77) t-1,4-Dichloro-2-butene	12.349	75	35483	32.79	ug/l #	10
79) tert-butylbenzene	13.237	119	39071	4.63	ug/l	58
80) 1,2,4-Trimethylbenzene	12.995	105	4066	0.42	ug/l	88
82) p-Isopropyltoluene	13.237	119	39071	4.07	ug/l	95
89) 1,2,4-Trichlorobenzene	15.259	180	913	0.32	ug/l	89
91) Naphthalene	15.093	128	6765	0.99	ug/l #	83
92) 1,2,3-Trichlorobenzene	15.259	180	913	0.34	ug/l	92

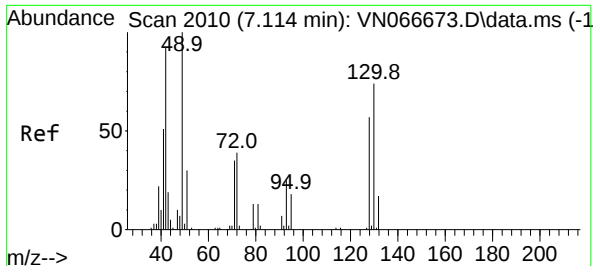
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
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Quant Time: Apr 21 10:08:41 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042021W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Apr 20 12:52:17 2021
Response via : Initial Calibration

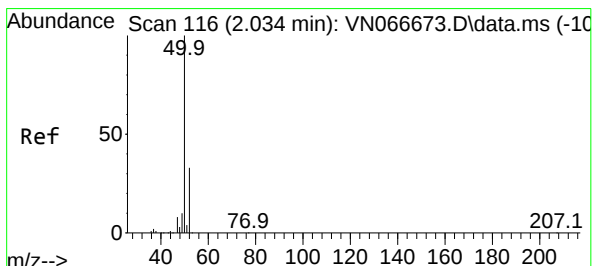
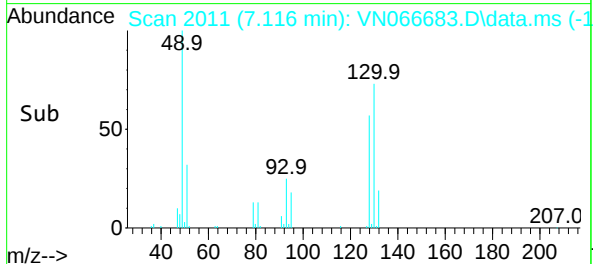
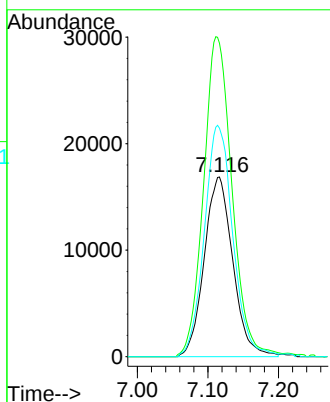
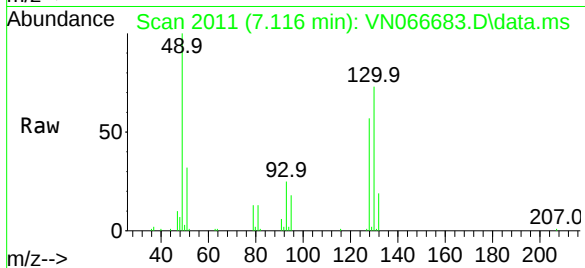




#1
Bromochloromethane
Concen: 30.00 ug/l
RT: 7.116 min Scan# 2011
Delta R.T. 0.002 min
Lab File: VN066683.D
Acq: 20 Apr 2021 15:40

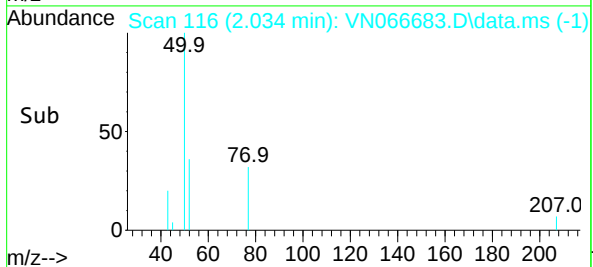
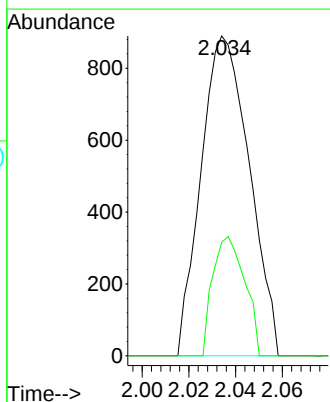
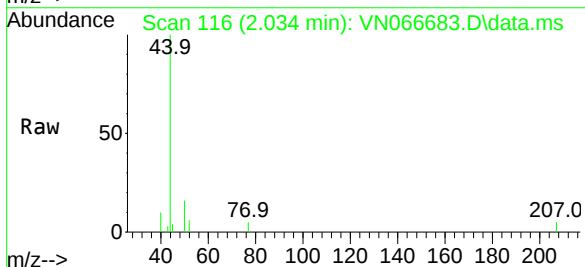
Instrument :
MSVOA_N
ClientSampled :

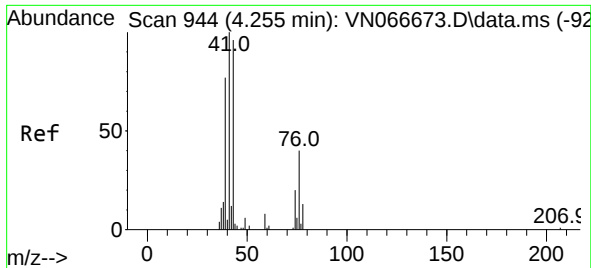
Tgt Ion:128 Resp: 47622
Ion Ratio Lower Upper
128 100
49 176.5 0.0 429.3
130 128.7 0.0 328.5



#3
Chloromethane
Concen: 0.35 ug/l
RT: 2.034 min Scan# 116
Delta R.T. 0.000 min
Lab File: VN066683.D
Acq: 20 Apr 2021 15:40

Tgt Ion: 50 Resp: 1276
Ion Ratio Lower Upper
50 100
52 35.5 26.2 39.4

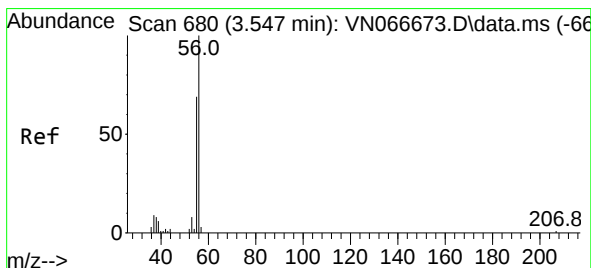
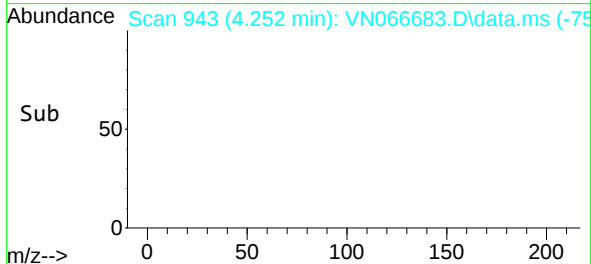
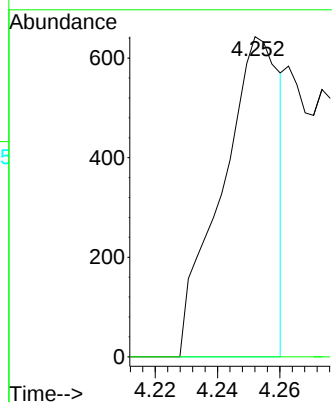
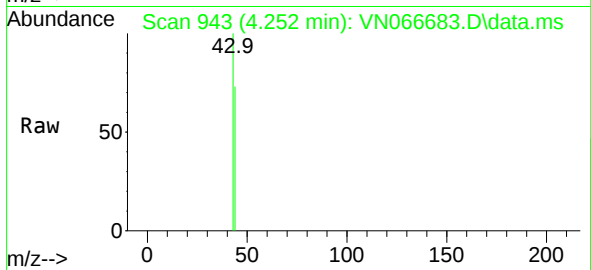




#12
Methyl Acetate
Concen: 0.24 ug/l
RT: 4.252 min Scan# 943
Delta R.T. -0.003 min
Lab File: VN066683.D
Acq: 20 Apr 2021 15:40

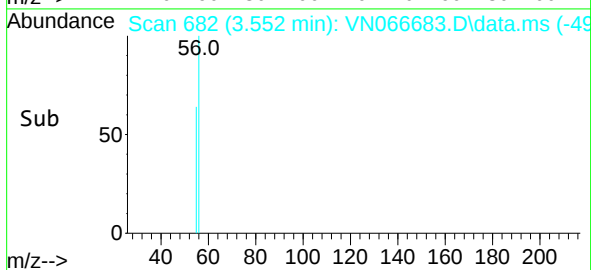
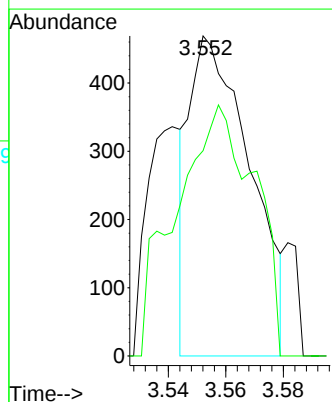
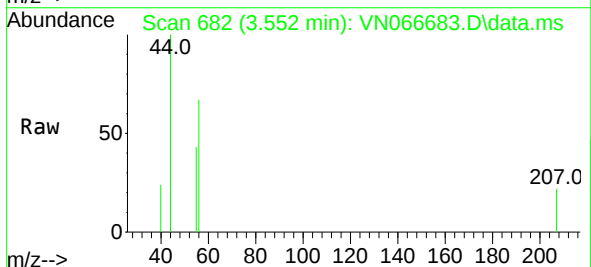
Instrument :
MSVOA_N
ClientSampled :

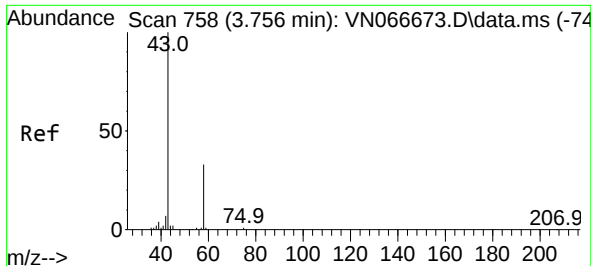
Tgt Ion: 43 Resp: 823
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#



#13
Acrolein
Concen: 1.44 ug/l
RT: 3.552 min Scan# 682
Delta R.T. 0.005 min
Lab File: VN066683.D
Acq: 20 Apr 2021 15:40

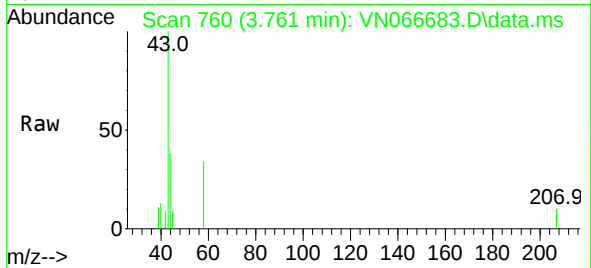
Tgt Ion: 56 Resp: 688
Ion Ratio Lower Upper
56 100
55 39.0 54.1 81.1#



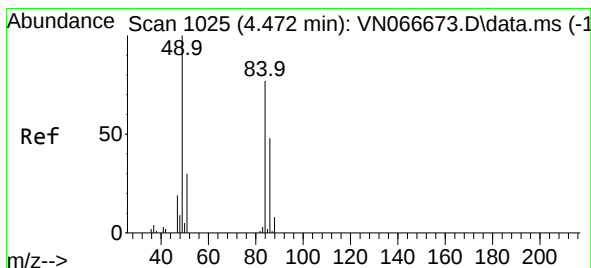
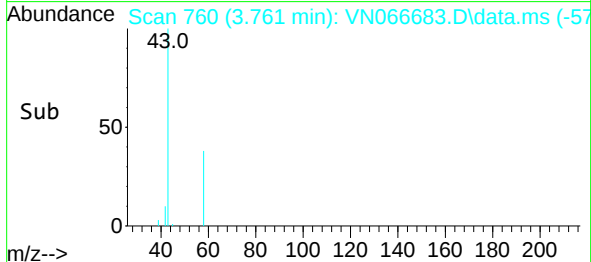
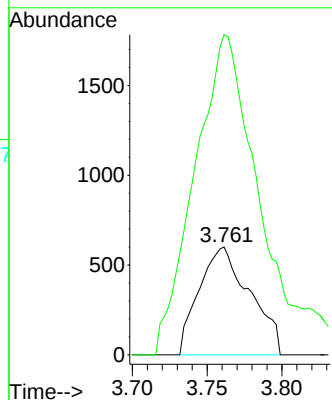


#15
Acetone
Concen: 3.65 ug/l
RT: 3.761 min Scan# 760
Delta R.T. 0.005 min
Lab File: VN066683.D
Acq: 20 Apr 2021 15:40

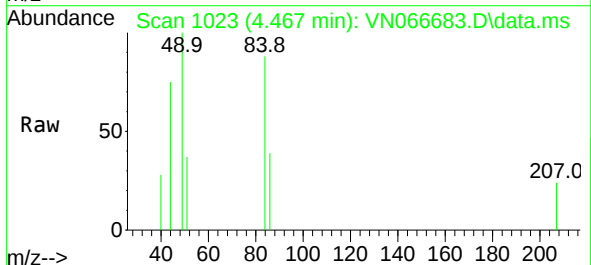
Instrument :
MSVOA_N
ClientSampled :



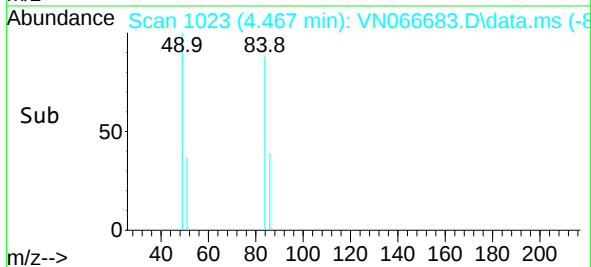
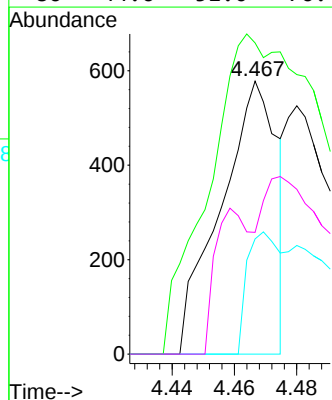
Tgt Ion: 58 Resp: 1420
Ion Ratio Lower Upper
58 100
43 223.0 267.3 400.9#

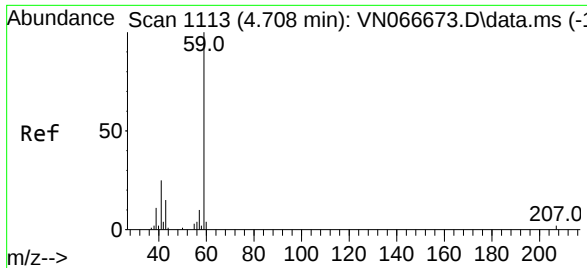


#18
Methylene Chloride
Concen: 0.23 ug/l
RT: 4.467 min Scan# 1023
Delta R.T. -0.005 min
Lab File: VN066683.D
Acq: 20 Apr 2021 15:40



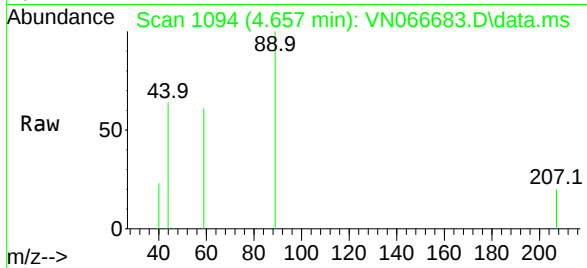
Tgt Ion: 84 Resp: 724
Ion Ratio Lower Upper
84 100
49 80.8 98.9 148.3#
51 42.2 30.8 46.2
86 44.6 51.0 76.4#



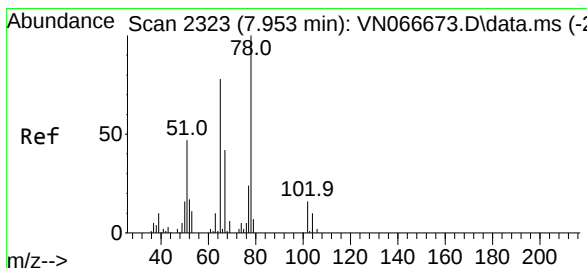
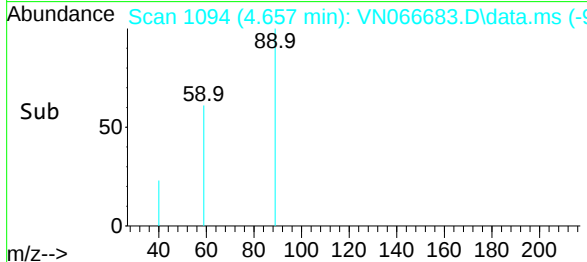
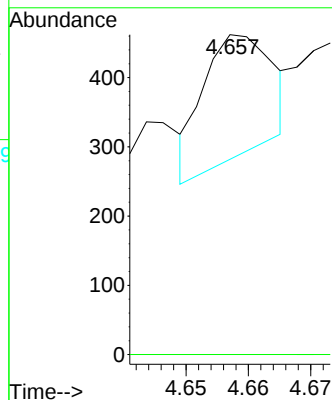


#23
tert-Butyl Alcohol
Concen: 0.27 ug/l
RT: 4.657 min Scan# 1094
Delta R.T. -0.051 min
Lab File: VN066683.D
Acq: 20 Apr 2021 15:40

Instrument :
MSVOA_N
ClientSampled :

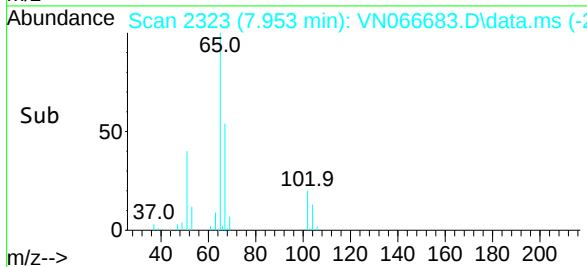
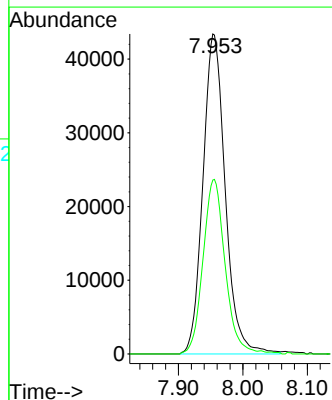
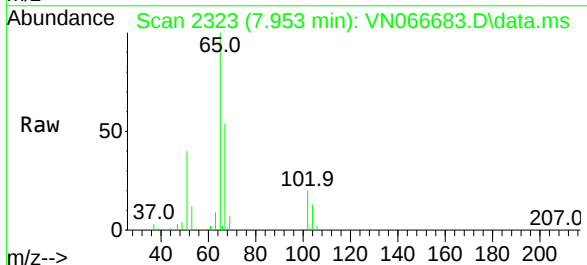


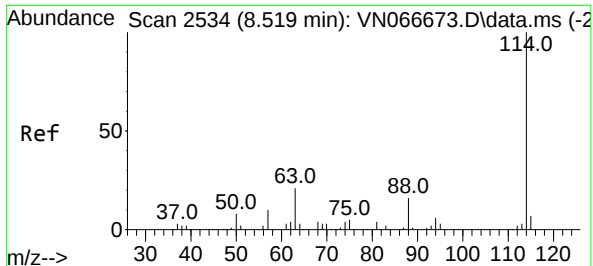
Tgt Ion: 59 Resp: 138
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#



#27
1,2-Dichloroethane-d4
Concen: 30.46 ug/l
RT: 7.953 min Scan# 2323
Delta R.T. 0.000 min
Lab File: VN066683.D
Acq: 20 Apr 2021 15:40

Tgt Ion: 65 Resp: 104526
Ion Ratio Lower Upper
65 100
67 53.7 42.2 63.4

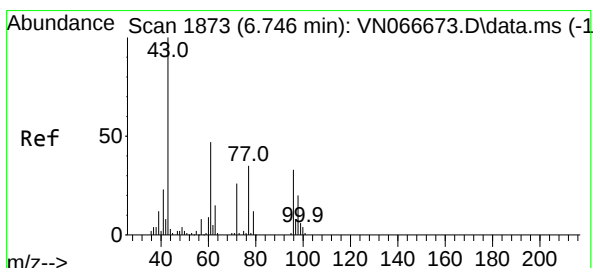
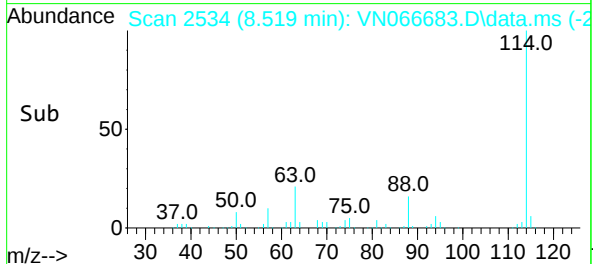
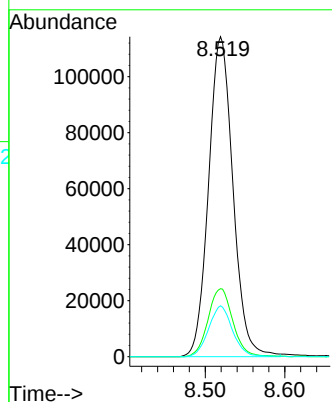
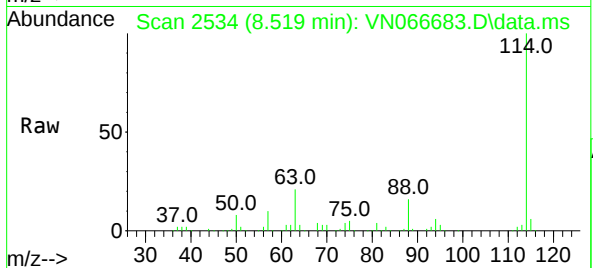




#28
1,4-Difluorobenzene
Concen: 30.00 ug/l
RT: 8.519 min Scan# 2534
Delta R.T. 0.000 min
Lab File: VN066683.D
Acq: 20 Apr 2021 15:40

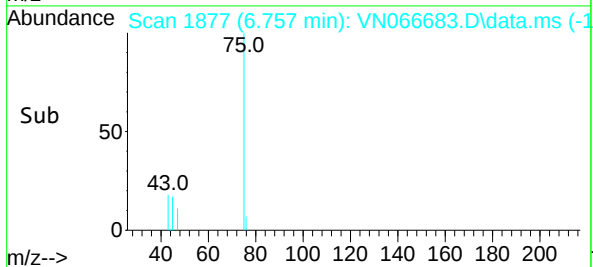
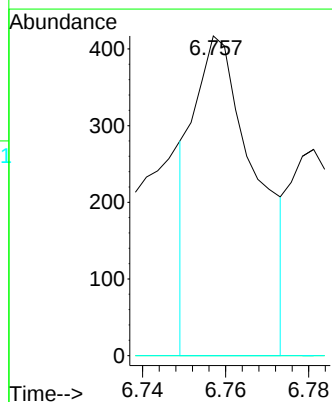
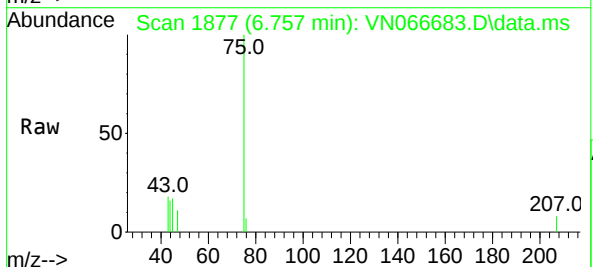
Instrument :
MSVOA_N
ClientSampled :

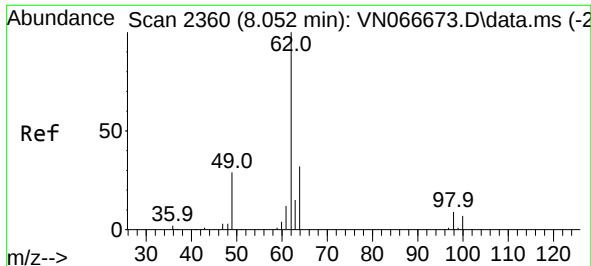
Tgt Ion:114 Resp: 242997
Ion Ratio Lower Upper
114 100
63 21.6 17.4 26.0
88 15.6 12.6 19.0



#30
2-Butanone
Concen: 0.24 ug/l
RT: 6.757 min Scan# 1877
Delta R.T. 0.011 min
Lab File: VN066683.D
Acq: 20 Apr 2021 15:40

Tgt Ion: 43 Resp: 437
Ion Ratio Lower Upper
43 100
57 0.0 6.9 10.3#
72 0.0 20.9 31.3#

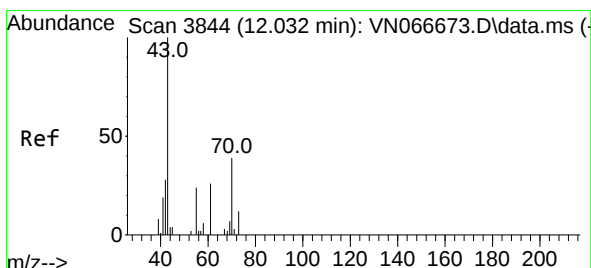
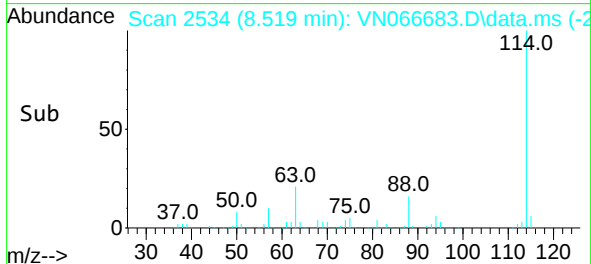
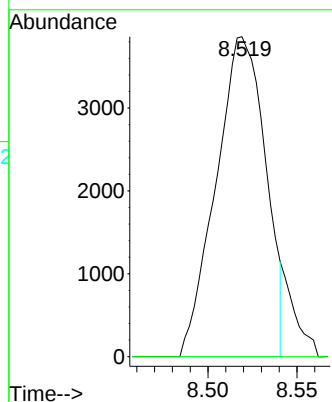
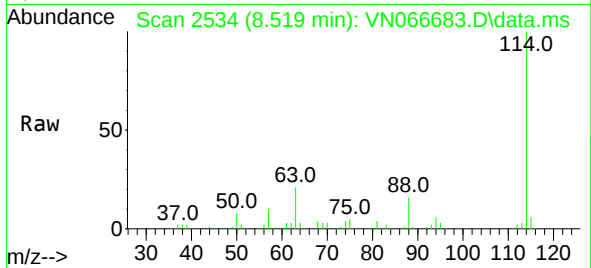




#36
1,2-Dichloroethane
Concen: 1.84 ug/l
RT: 8.519 min Scan# 2534
Delta R.T. 0.467 min
Lab File: VN066683.D
Acq: 20 Apr 2021 15:40

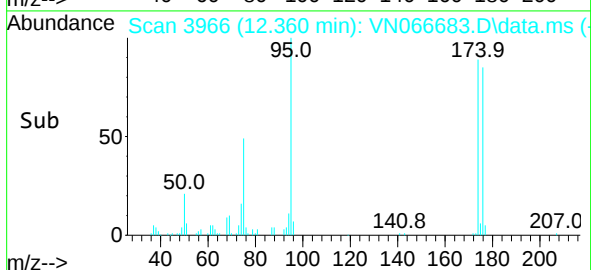
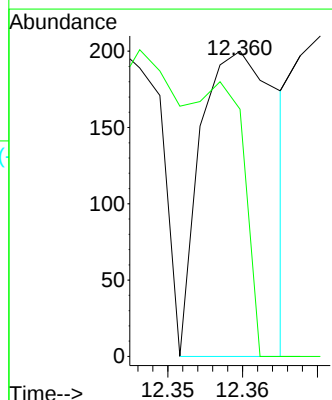
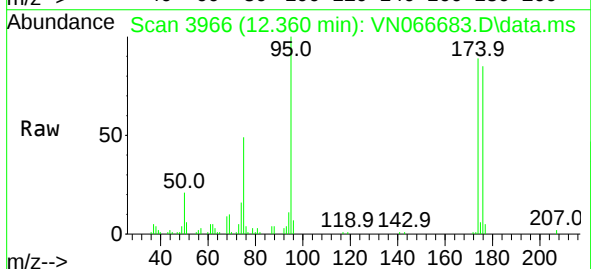
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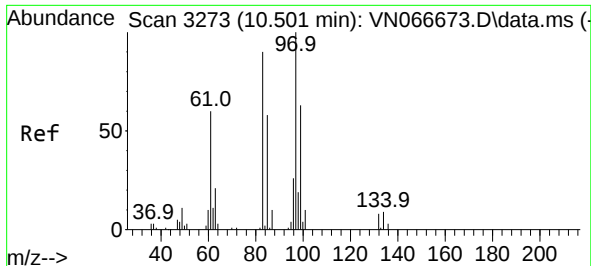
Tgt Ion: 62 Resp: 7459
Ion Ratio Lower Upper
62 100
98 0.0 6.9 10.3#



#47
n-amy1 Acetate
Concen: 19.46 ug/l
RT: 12.360 min Scan# 3966
Delta R.T. 0.328 min
Lab File: VN066683.D
Acq: 20 Apr 2021 15:40

Tgt Ion: 43 Resp: 144
Ion Ratio Lower Upper
43 100
55 18.8 17.7 26.5

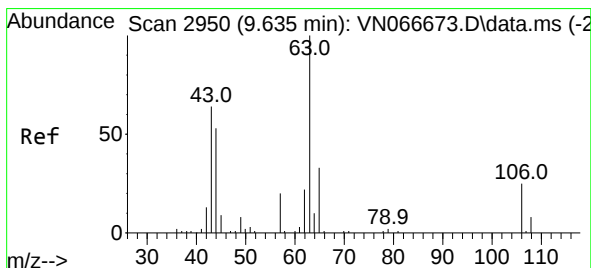
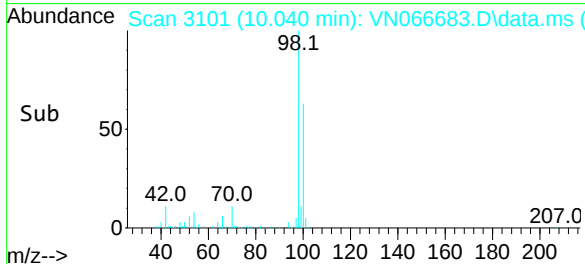
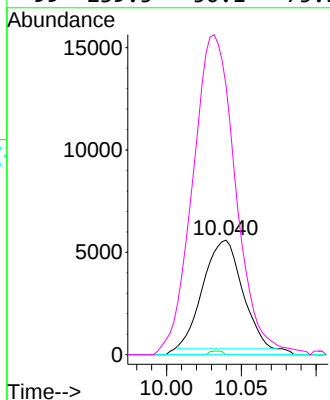
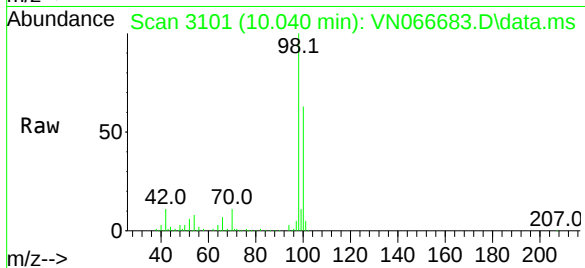




#50
1,1,2-Trichloroethane
Concen: 3.25 ug/l
RT: 10.040 min Scan# 3101
Delta R.T. -0.461 min
Lab File: VN066683.D
Acq: 20 Apr 2021 15:40

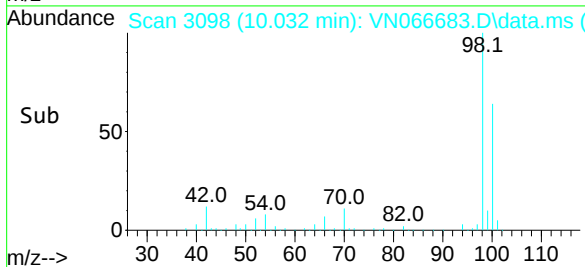
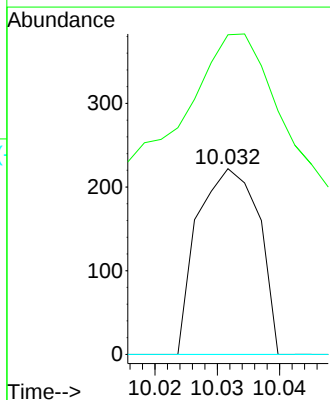
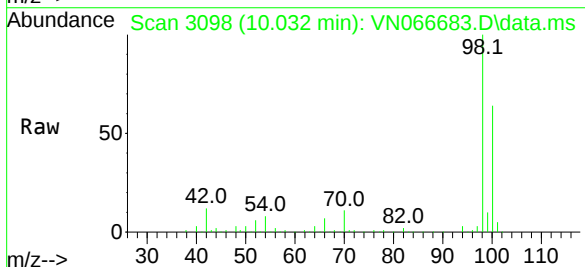
Instrument :
MSVOA_N
ClientSampled :

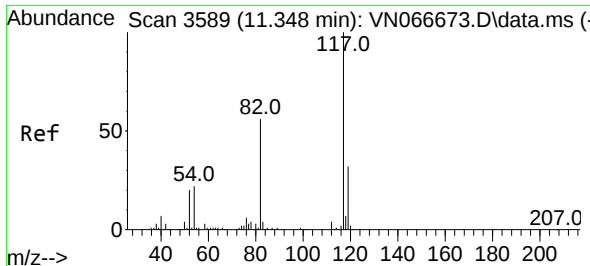
Tgt Ion:	97	Resp:	9645
Ion	Ratio	Lower	Upper
97	100		
83	0.0	68.8	103.2#
85	0.0	44.8	67.2#
99	239.5	50.1	75.1#



#55
2-Chloroethyl vinyl ether
Concen: 0.24 ug/l
RT: 10.032 min Scan# 3098
Delta R.T. 0.397 min
Lab File: VN066683.D
Acq: 20 Apr 2021 15:40

Tgt Ion:	63	Resp:	152
Ion	Ratio	Lower	Upper
63	100		
65	306.6	26.0	39.0#
106	0.0	20.6	31.0#

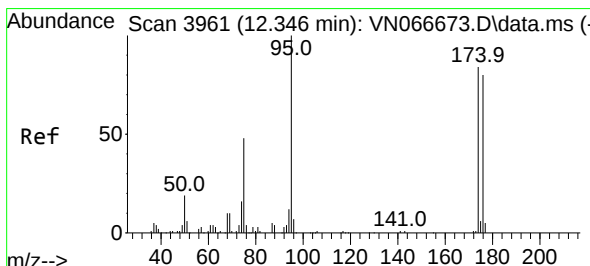
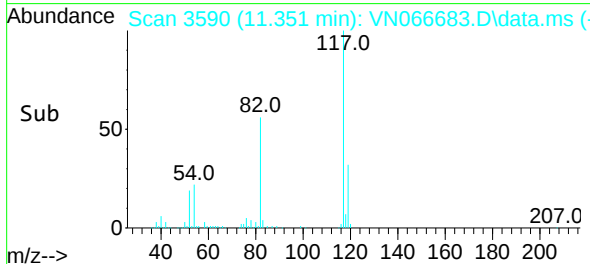
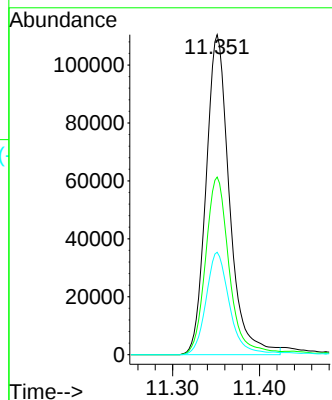
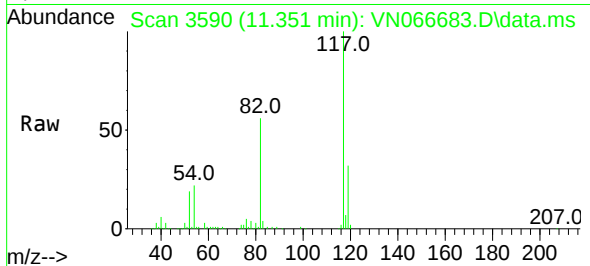




#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.351 min Scan# 3590
Delta R.T. 0.003 min
Lab File: VN066683.D
Acq: 20 Apr 2021 15:40

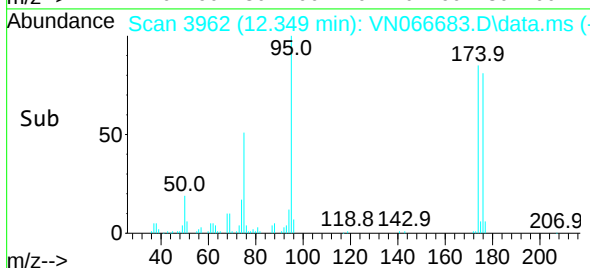
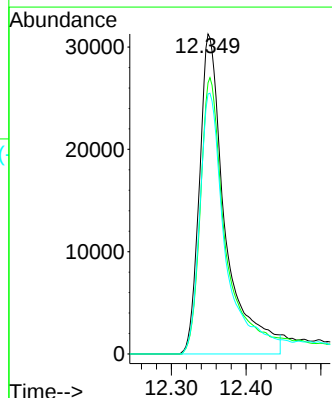
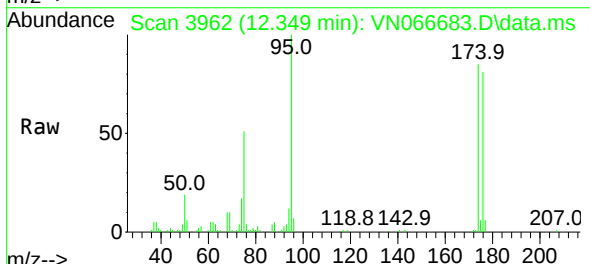
Instrument :
MSVOA_N
ClientSampled :

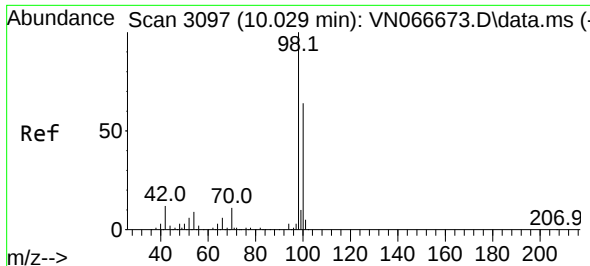
Tgt Ion:117 Resp: 206696
Ion Ratio Lower Upper
117 100
82 56.2 45.0 67.6
119 31.8 25.5 38.3



#60
4-Bromofluorobenzene
Concen: 23.15 ug/l
RT: 12.349 min Scan# 3962
Delta R.T. 0.003 min
Lab File: VN066683.D
Acq: 20 Apr 2021 15:40

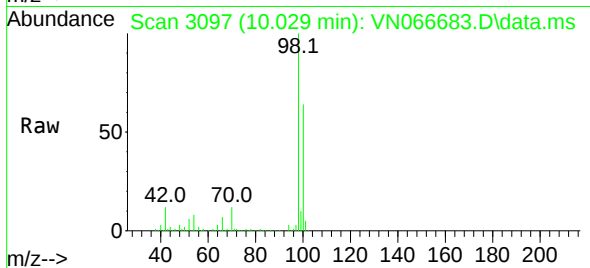
Tgt Ion: 95 Resp: 75006
Ion Ratio Lower Upper
95 100
174 81.8 68.1 102.1
176 76.0 65.4 98.0



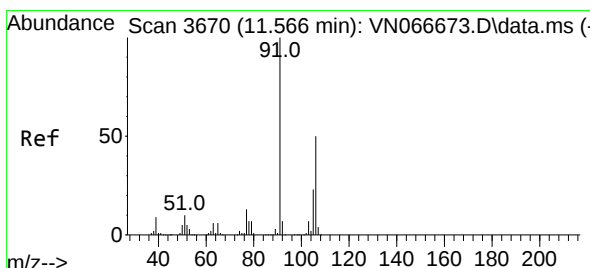
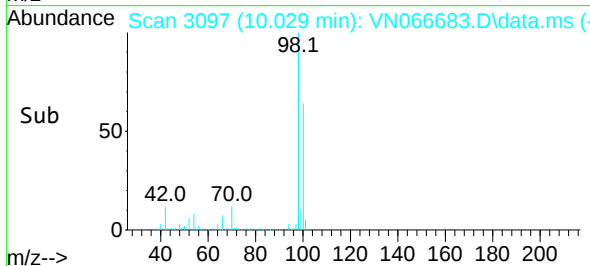
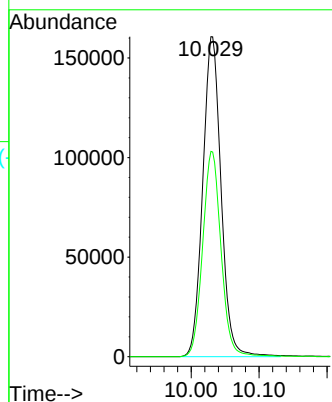


#63
Toluene-d8
Concen: 31.67 ug/l
RT: 10.029 min Scan# 3097
Delta R.T. 0.000 min
Lab File: VN066683.D
Acq: 20 Apr 2021 15:40

Instrument :
MSVOA_N
ClientSampled :

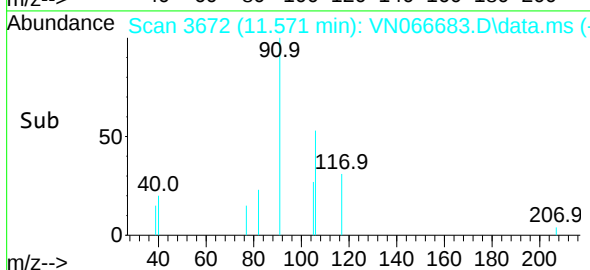
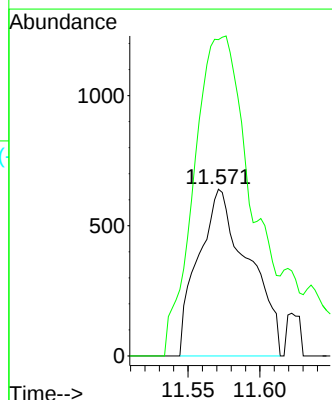
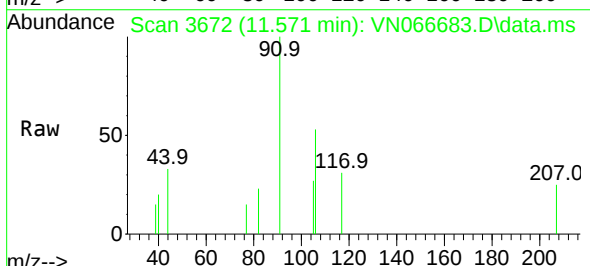


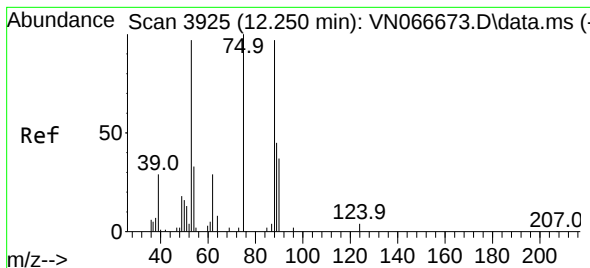
Tgt Ion: 98 Resp: 301223
Ion Ratio Lower Upper
98 100
100 64.3 51.1 76.7



#67
m/p-Xylenes
Concen: 0.33 ug/l
RT: 11.571 min Scan# 3672
Delta R.T. 0.005 min
Lab File: VN066683.D
Acq: 20 Apr 2021 15:40

Tgt Ion:106 Resp: 1549
Ion Ratio Lower Upper
106 100
91 187.5 164.8 247.2

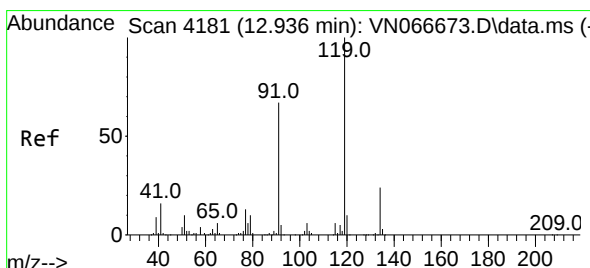
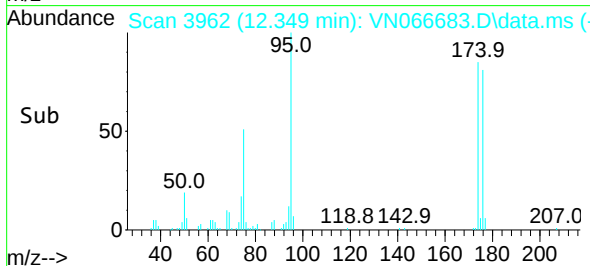
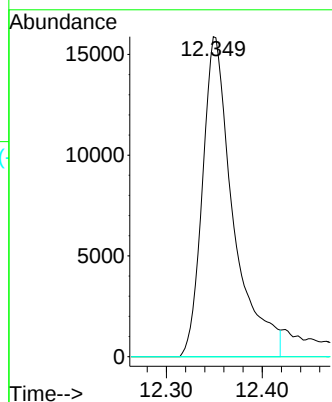
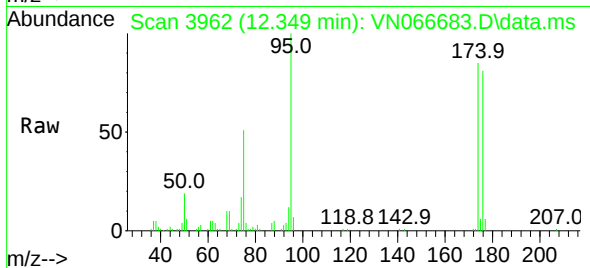




#77
t-1,4-Dichloro-2-butene
Concen: 32.79 ug/l
RT: 12.349 min Scan# 3962
Delta R.T. 0.099 min
Lab File: VN066683.D
Acq: 20 Apr 2021 15:40

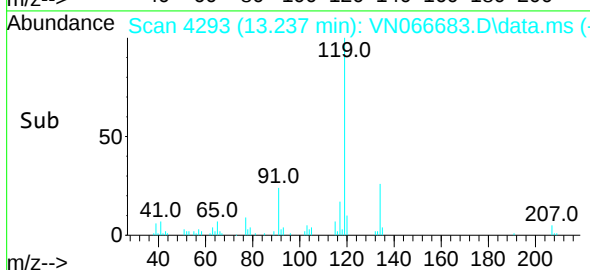
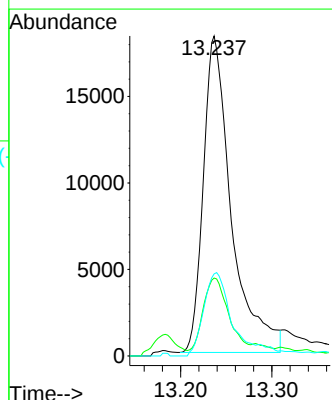
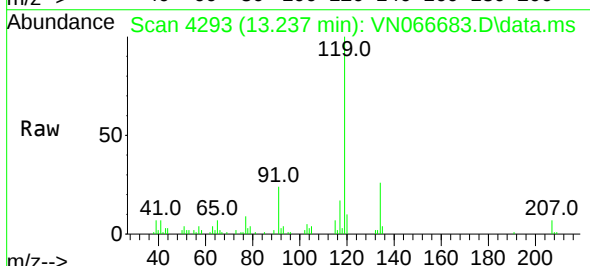
Instrument :
MSVOA_N
ClientSampleId :

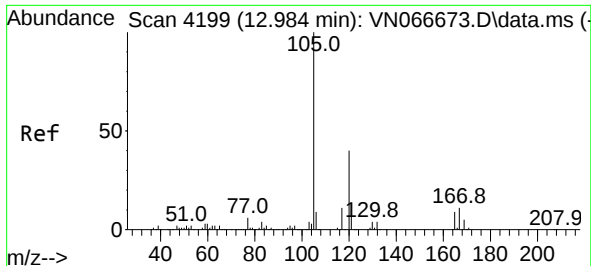
Tgt Ion: 75 Resp: 35483
Ion Ratio Lower Upper
75 100
53 0.0 49.6 149.0#
89 0.0 22.9 68.7#



#79
tert-butylbenzene
Concen: 4.63 ug/l
RT: 13.237 min Scan# 4293
Delta R.T. 0.301 min
Lab File: VN066683.D
Acq: 20 Apr 2021 15:40

Tgt Ion: 119 Resp: 39071
Ion Ratio Lower Upper
119 100
91 20.4 0.0 133.4
134 25.2 0.0 51.0

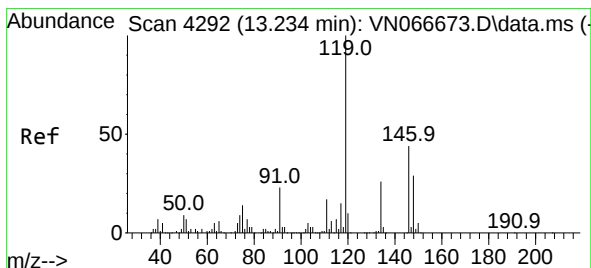
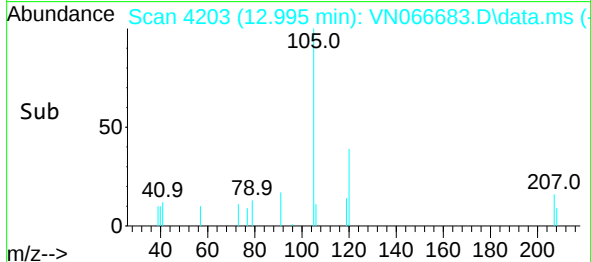
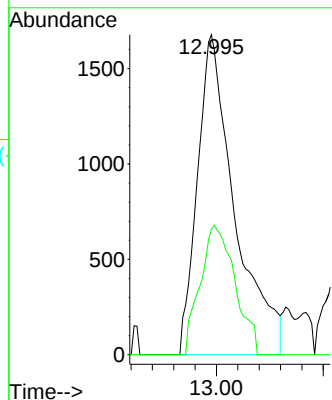
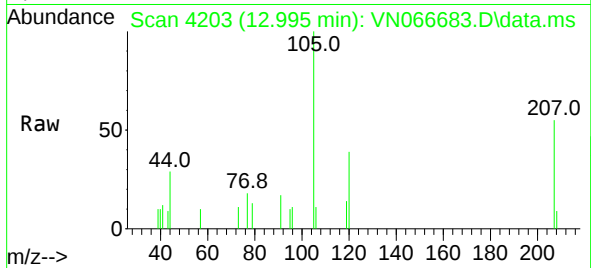




#80
1,2,4-Trimethylbenzene
Concen: 0.42 ug/l
RT: 12.995 min Scan# 4203
Delta R.T. 0.011 min
Lab File: VN066683.D
Acq: 20 Apr 2021 15:40

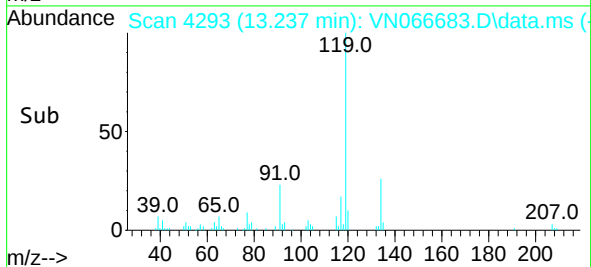
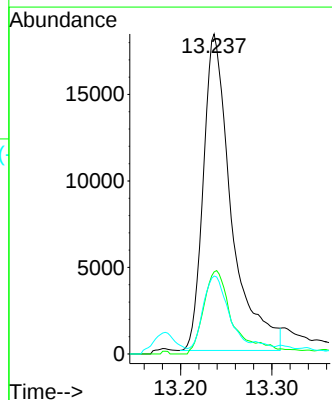
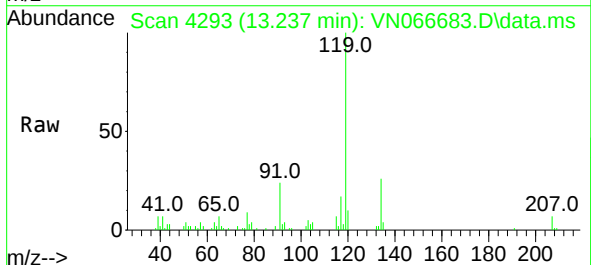
Instrument :
MSVOA_N
ClientSampleId :

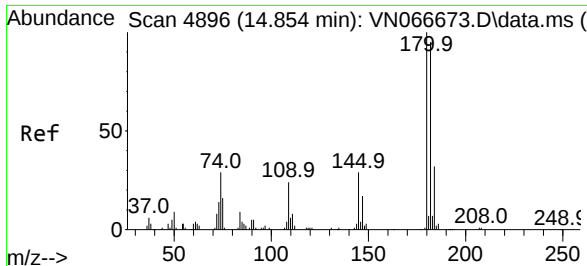
Tgt Ion:105 Resp: 4066
Ion Ratio Lower Upper
105 100
120 37.8 0.0 90.6



#82
p-Isopropyltoluene
Concen: 4.07 ug/l
RT: 13.237 min Scan# 4293
Delta R.T. 0.003 min
Lab File: VN066683.D
Acq: 20 Apr 2021 15:40

Tgt Ion:119 Resp: 39071
Ion Ratio Lower Upper
119 100
134 25.2 0.0 53.4
91 20.4 0.0 47.6

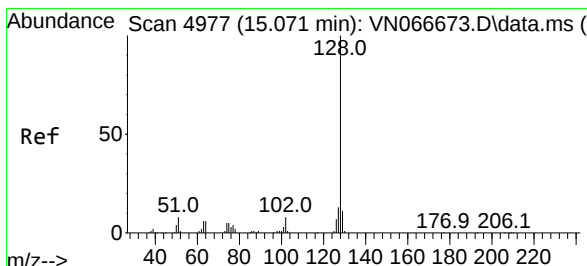
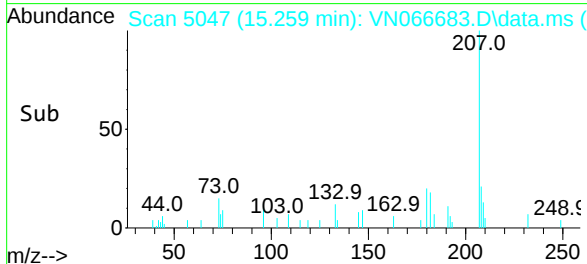
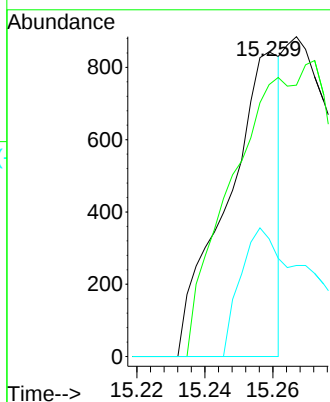
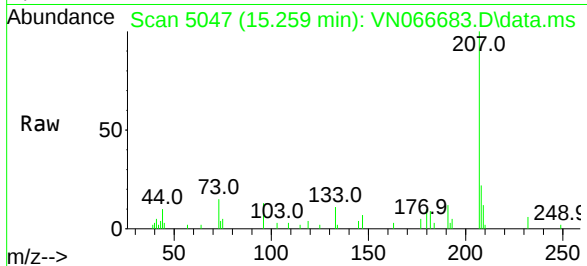




#89
1,2,4-Trichlorobenzene
Concen: 0.32 ug/l
RT: 15.259 min Scan# 5047
Delta R.T. 0.405 min
Lab File: VN066683.D
Acq: 20 Apr 2021 15:40

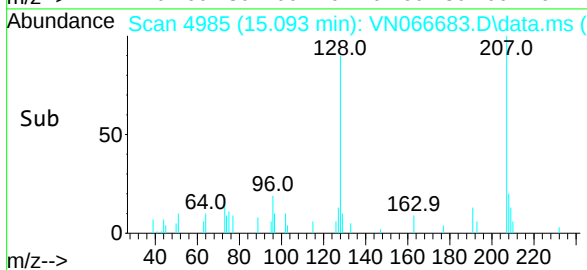
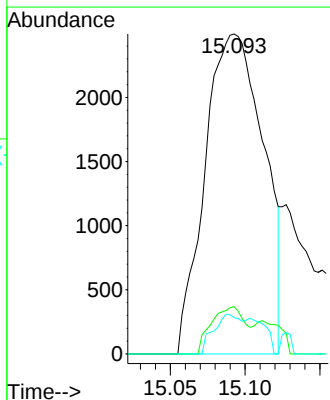
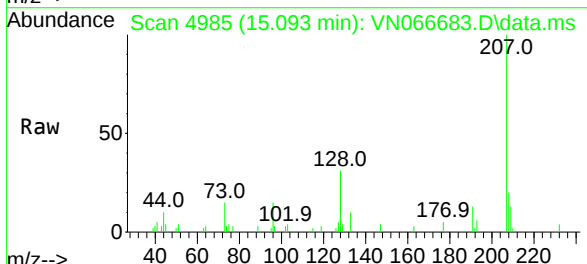
Instrument :
MSVOA_N
ClientSampled :

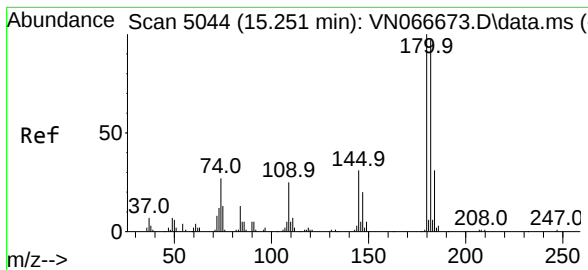
Tgt Ion:180 Resp: 913
Ion Ratio Lower Upper
180 100
182 103.8 74.3 111.5
145 33.5 23.4 35.0



#91
Naphthalene
Concen: 0.99 ug/l
RT: 15.093 min Scan# 4985
Delta R.T. 0.022 min
Lab File: VN066683.D
Acq: 20 Apr 2021 15:40

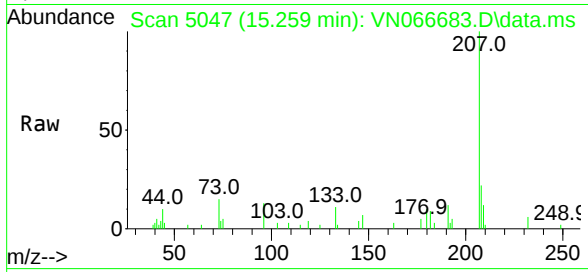
Tgt Ion:128 Resp: 6765
Ion Ratio Lower Upper
128 100
127 8.5 10.2 15.2#
129 1.8 8.6 13.0#





#92
 1,2,3-Trichlorobenzene
 Concen: 0.34 ug/l
 RT: 15.259 min Scan# 5047
 Delta R.T. 0.008 min
 Lab File: VN066683.D
 Acq: 20 Apr 2021 15:40

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	913
Ion	Ratio	Lower	Upper
180	100		
182	103.8	0.0	190.0
145	33.5	0.0	60.8

