

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042221\
 Data File : VN066708.D
 Acq On : 22 Apr 2021 12:24
 Operator : JC/MD
 Sample : VN0422WBL01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 23 06:28:33 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042021W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Apr 21 16:55:39 2021
 Response via : Initial Calibration

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

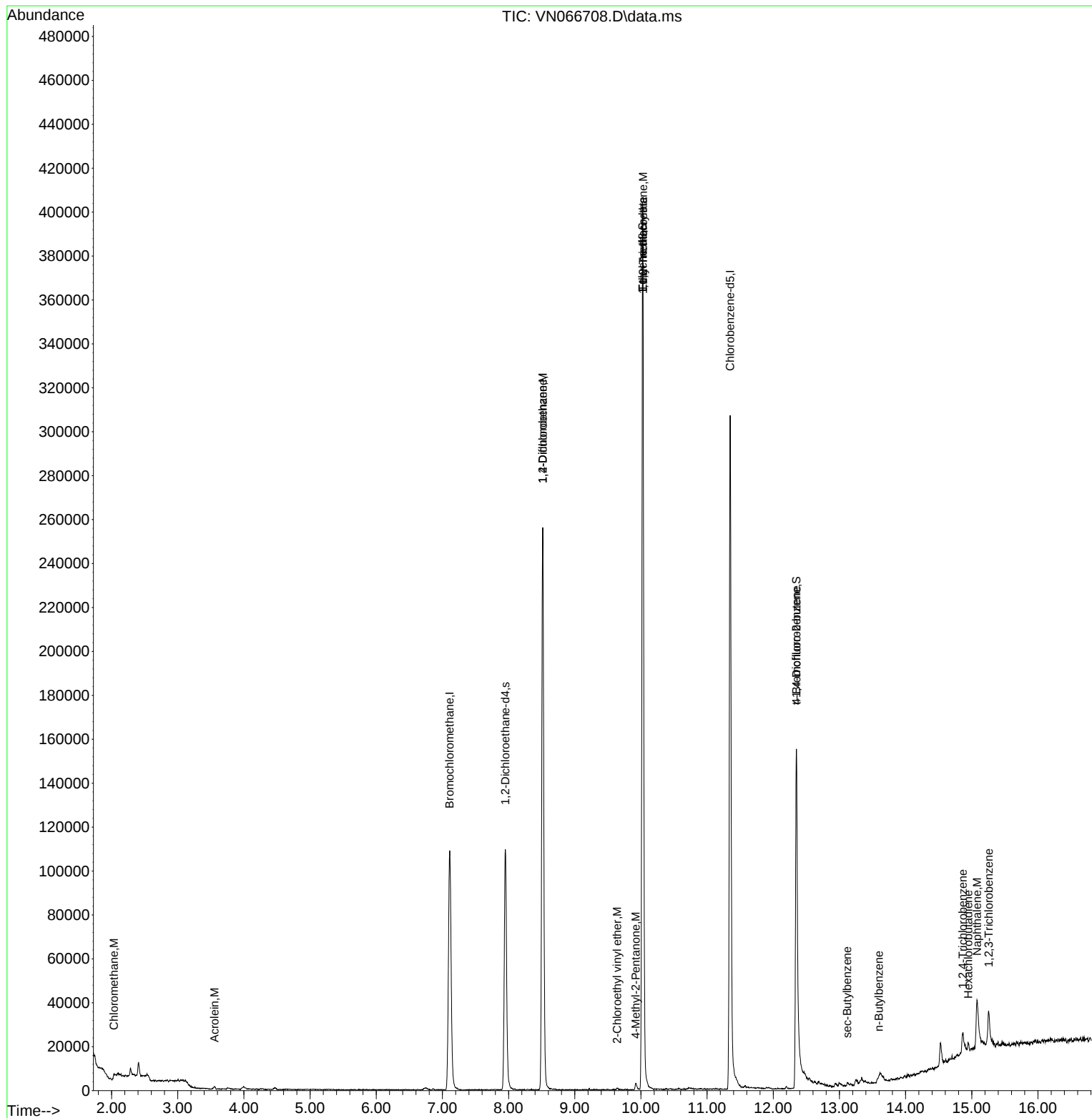
Internal Standards						
1) Bromochloromethane	7.108	128	46483	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.516	114	240327	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.348	117	198526	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.950	65	98028	29.27	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.57%
60) 4-Bromofluorobenzene	12.349	95	73693	23.68	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	78.93%
63) Toluene-d8	10.026	98	288526	31.59	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	105.30%
Target Compounds						
						Qvalue
3) Chloromethane	2.034	50	1107	0.31	ug/l	90
13) Acrolein	3.555	56	888	1.91	ug/l	93
36) 1,2-Dichloroethane	8.516	62	7502	1.87	ug/l #	76
50) 1,1,2-Trichloroethane	10.034	97	10181	3.47	ug/l #	1
51) Ethyl methacrylate	10.029	69	927	0.22	ug/l #	60
55) 2-Chloroethyl vinyl ether	9.640	63	229	0.36	ug/l #	45
58) 4-Methyl-2-Pentanone	9.922	43	2749	0.81	ug/l #	79
77) t-1,4-Dichloro-2-butene	12.349	75	36320	34.95	ug/l #	10
81) sec-Butylbenzene	13.119	105	2263	0.21	ug/l	73
85) n-Butylbenzene	13.596	91	2651	0.35	ug/l #	55
89) 1,2,4-Trichlorobenzene	14.865	180	5303	1.94	ug/l	92
90) Hexachlorobutadiene	14.948	225	785	0.51	ug/l	62
91) Naphthalene	15.079	128	30880	4.70	ug/l	98
92) 1,2,3-Trichlorobenzene	15.256	180	7496	2.90	ug/l	58

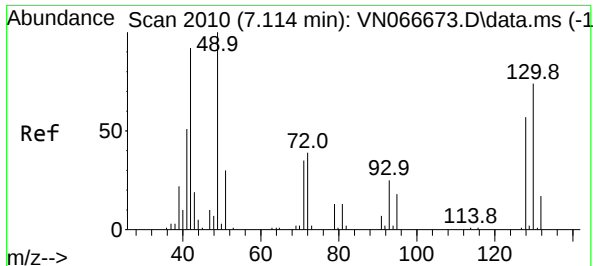
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042021W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Apr 21 16:55:39 2021
Response via : Initial Calibration

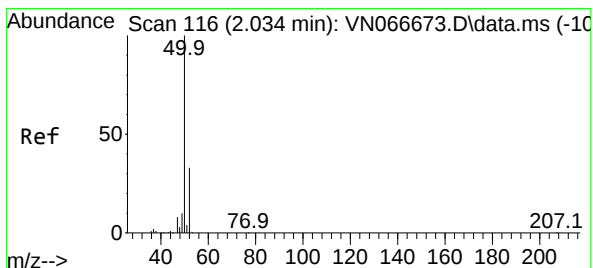
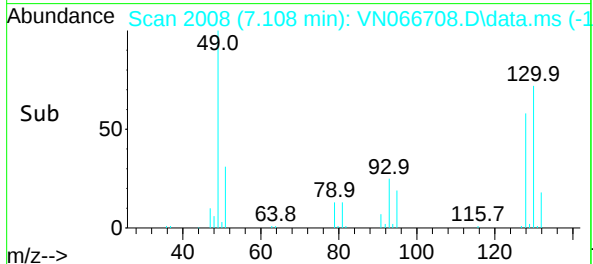
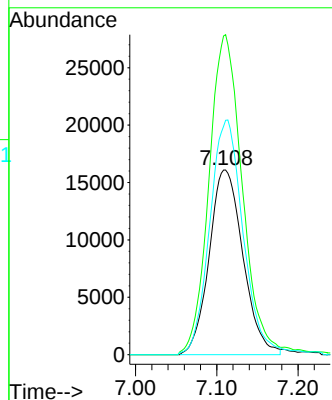
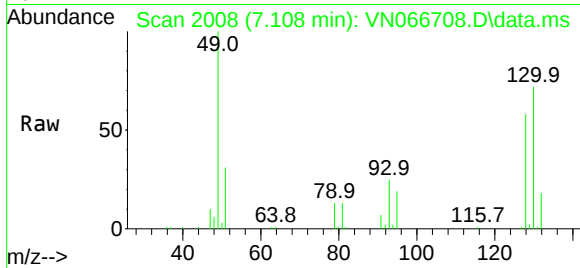




#1
Bromochloromethane
Concen: 30.00 ug/l
RT: 7.108 min Scan# 2008
Delta R.T. -0.006 min
Lab File: VN066708.D
Acq: 22 Apr 2021 12:24

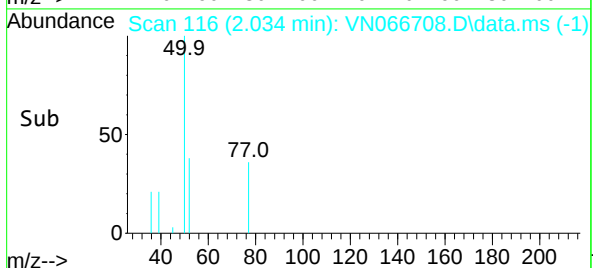
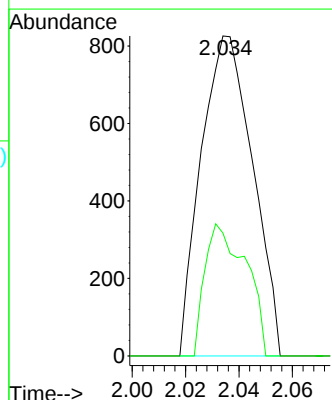
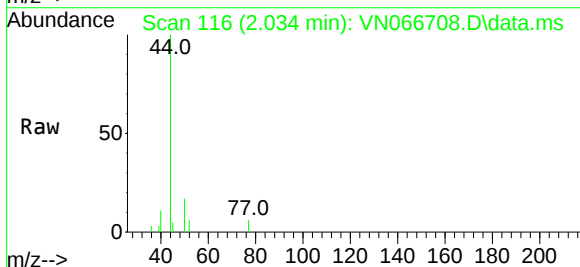
Instrument :
MSVOA_N
ClientSampled :

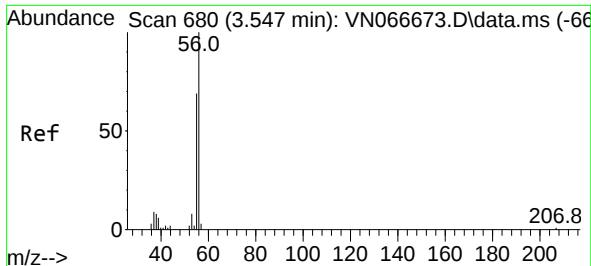
Tgt Ion:128 Resp: 46483
Ion Ratio Lower Upper
128 100
49 169.5 0.0 429.3
130 125.7 0.0 328.5



#3
Chloromethane
Concen: 0.31 ug/l
RT: 2.034 min Scan# 116
Delta R.T. -0.000 min
Lab File: VN066708.D
Acq: 22 Apr 2021 12:24

Tgt Ion: 50 Resp: 1107
Ion Ratio Lower Upper
50 100
52 38.4 26.2 39.4

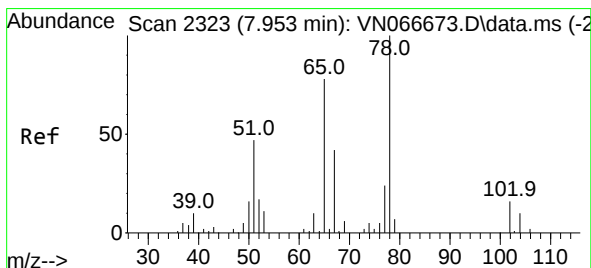
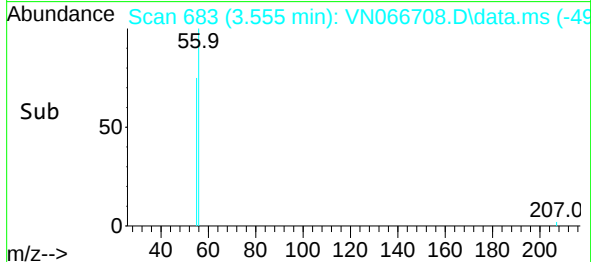
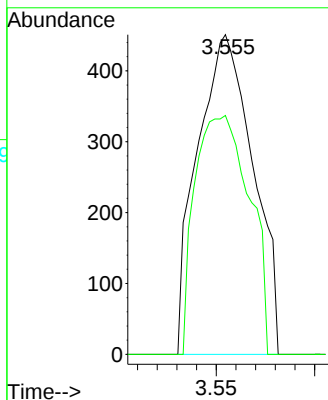
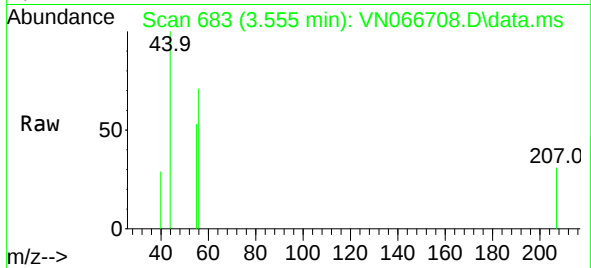




#13
Acrolein
Concen: 1.91 ug/l
RT: 3.555 min Scan# 683
Delta R.T. 0.008 min
Lab File: VN066708.D
Acq: 22 Apr 2021 12:24

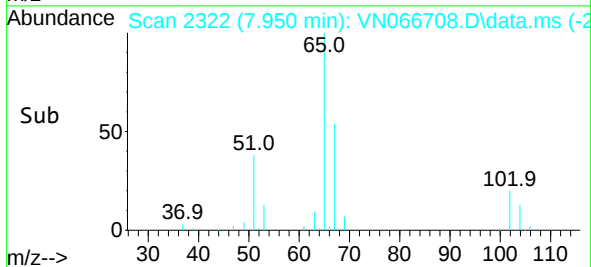
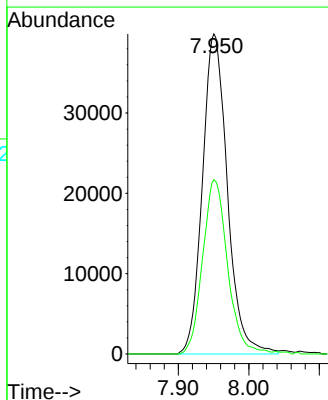
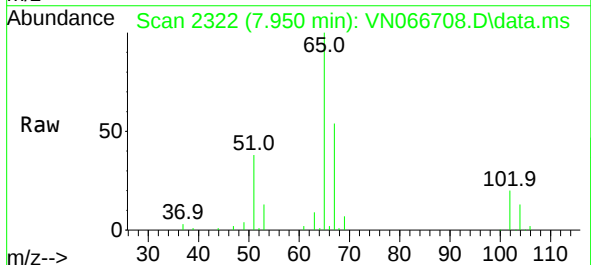
Instrument :
MSVOA_N
ClientSampled :

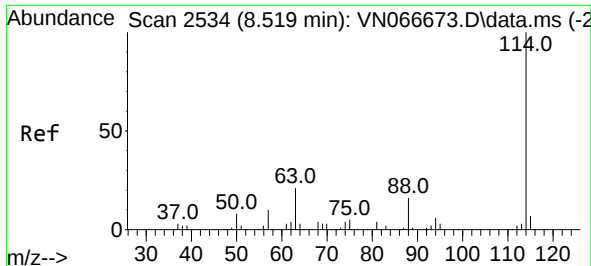
Tgt Ion: 56 Resp: 888
Ion Ratio Lower Upper
56 100
55 72.9 54.1 81.1



#27
1,2-Dichloroethane-d4
Concen: 29.27 ug/l
RT: 7.950 min Scan# 2322
Delta R.T. -0.003 min
Lab File: VN066708.D
Acq: 22 Apr 2021 12:24

Tgt Ion: 65 Resp: 98028
Ion Ratio Lower Upper
65 100
67 54.1 42.2 63.4





#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 8.516 min Scan# 2533

Delta R.T. -0.003 min

Lab File: VN066708.D

Acq: 22 Apr 2021 12:24

Tgt Ion:114 Resp: 240327

Ion Ratio Lower Upper

114 100

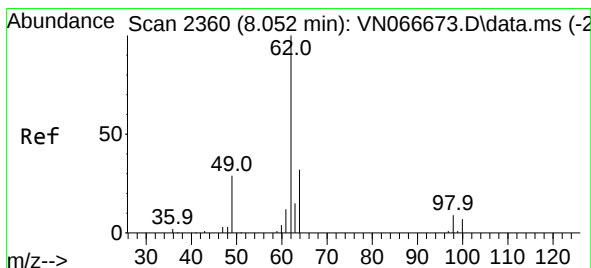
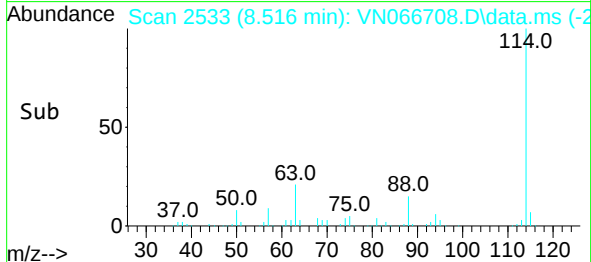
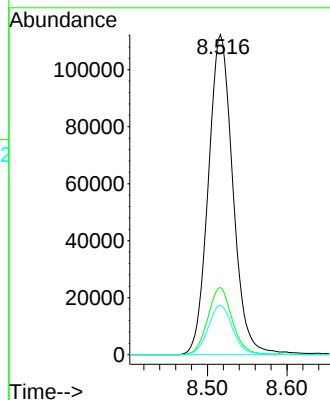
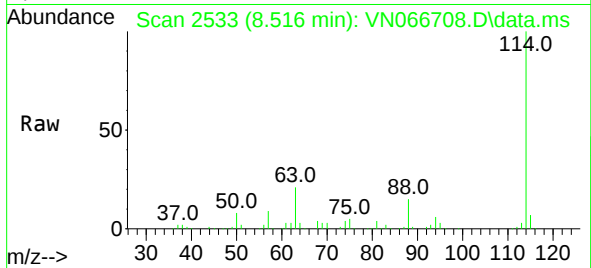
63 20.9 17.4 26.0

88 15.3 12.6 19.0

Instrument :

MSVOA_N

ClientSampled :



#36

1,2-Dichloroethane

Concen: 1.87 ug/l

RT: 8.516 min Scan# 2533

Delta R.T. 0.464 min

Lab File: VN066708.D

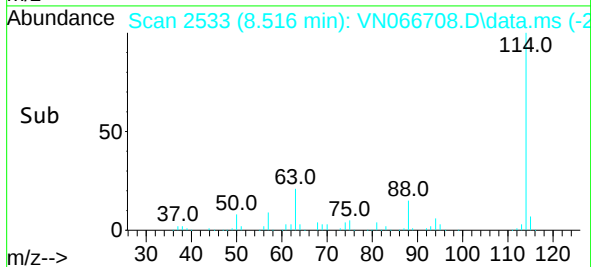
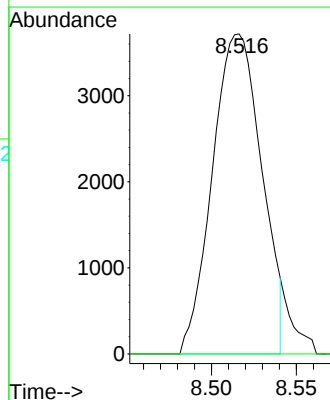
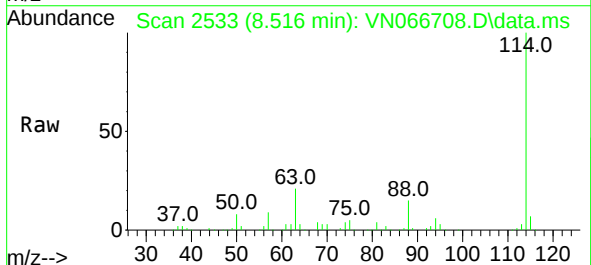
Acq: 22 Apr 2021 12:24

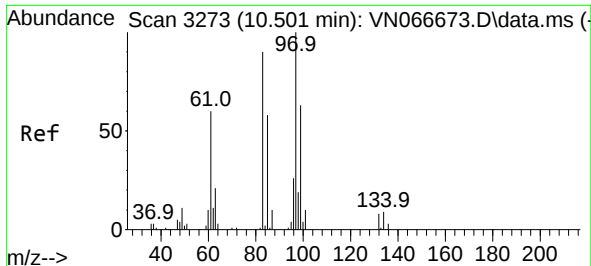
Tgt Ion: 62 Resp: 7502

Ion Ratio Lower Upper

62 100

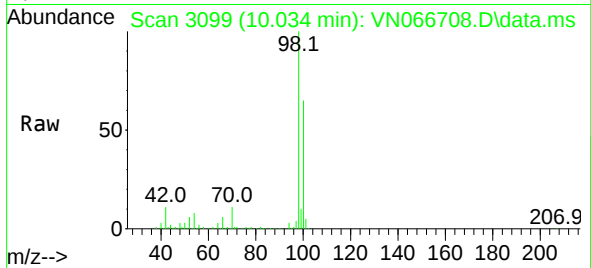
98 0.0 6.9 10.3#



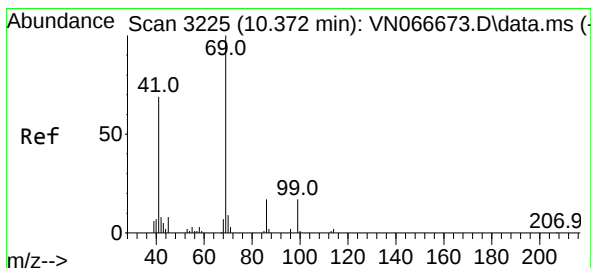
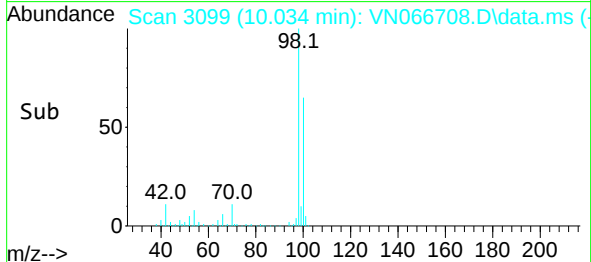
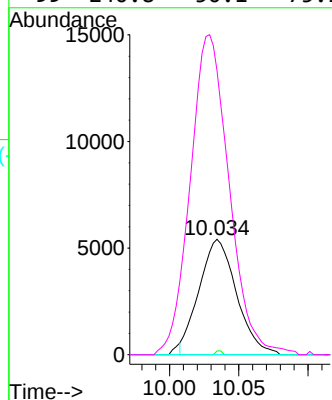


#50
1,1,2-Trichloroethane
Concen: 3.47 ug/l
RT: 10.034 min Scan# 3099
Delta R.T. -0.467 min
Lab File: VN066708.D
Acq: 22 Apr 2021 12:24

Instrument :
MSVOA_N
ClientSampled :

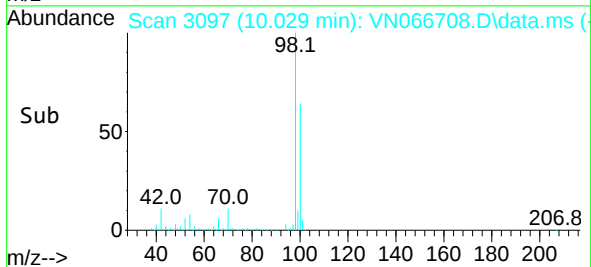
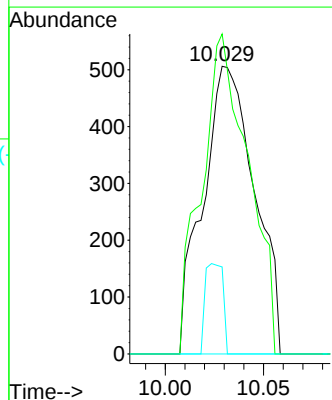
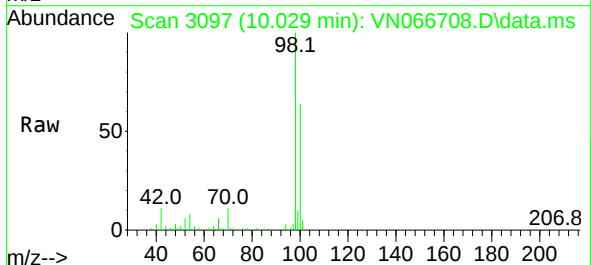


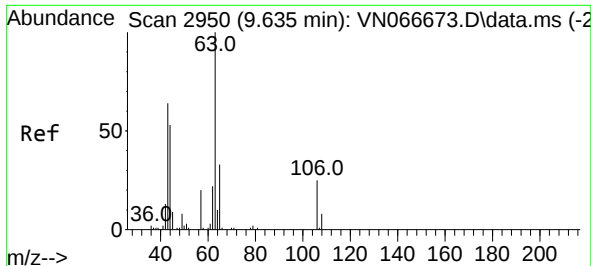
Tgt Ion: 97 Resp: 10181
Ion Ratio Lower Upper
97 100
83 3.2 68.8 103.2#
85 0.0 44.8 67.2#
99 240.8 50.1 75.1#



#51
Ethyl methacrylate
Concen: 0.22 ug/l
RT: 10.029 min Scan# 3097
Delta R.T. -0.343 min
Lab File: VN066708.D
Acq: 22 Apr 2021 12:24

Tgt Ion: 69 Resp: 927
Ion Ratio Lower Upper
69 100
41 111.3 34.8 104.5#
39 30.2 22.5 67.5

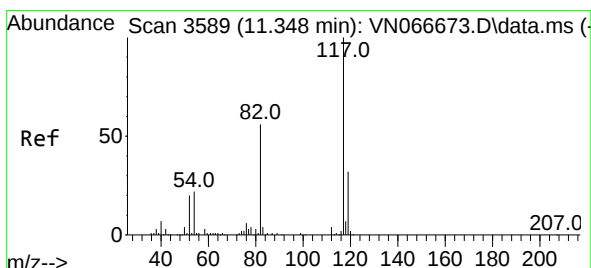
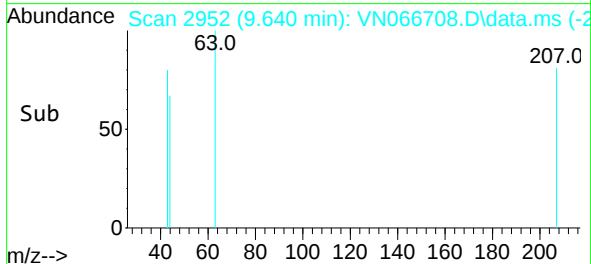
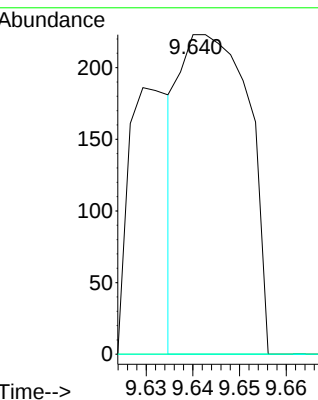
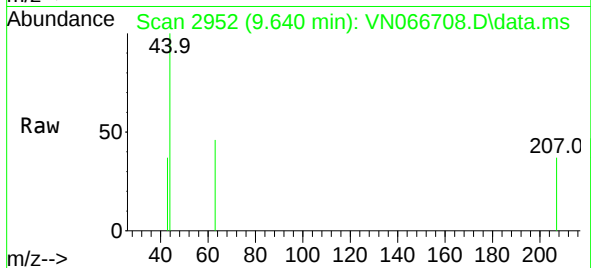




#55
2-Chloroethyl vinyl ether
Concen: 0.36 ug/l
RT: 9.640 min Scan# 2952
Delta R.T. 0.005 min
Lab File: VN066708.D
Acq: 22 Apr 2021 12:24

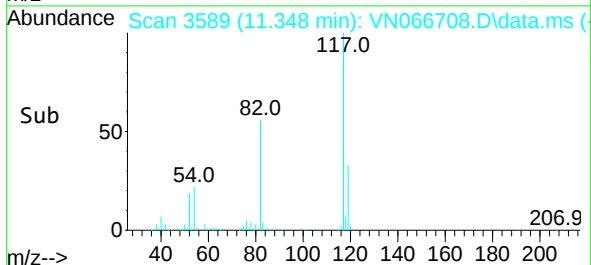
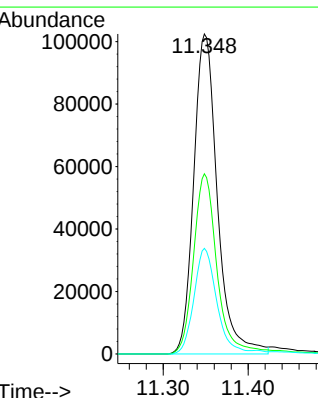
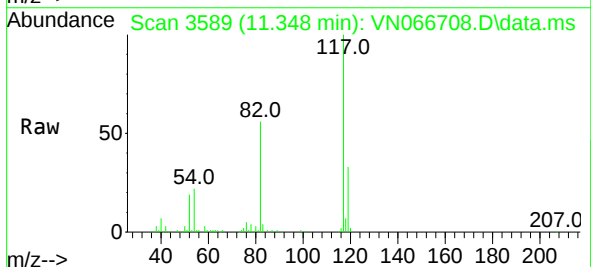
Instrument :
MSVOA_N
ClientSampled :

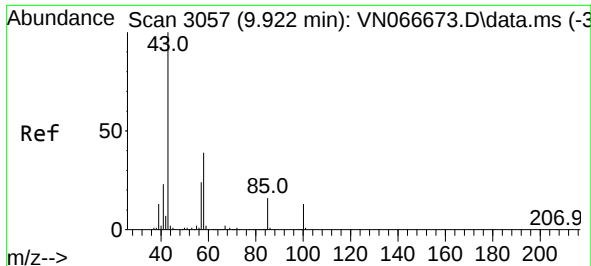
Tgt Ion: 63 Resp: 229
Ion Ratio Lower Upper
63 100
65 0.0 26.0 39.0#
106 0.0 20.6 31.0#



#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.348 min Scan# 3589
Delta R.T. 0.000 min
Lab File: VN066708.D
Acq: 22 Apr 2021 12:24

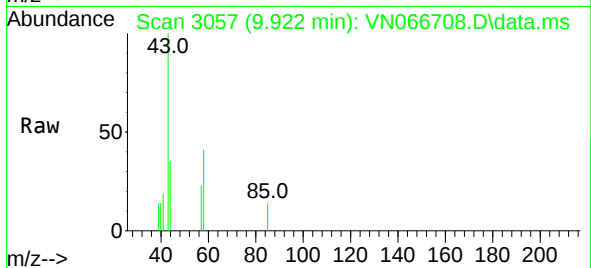
Tgt Ion: 117 Resp: 198526
Ion Ratio Lower Upper
117 100
82 55.9 45.0 67.6
119 31.7 25.5 38.3



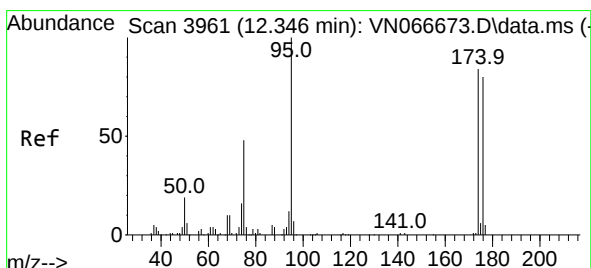
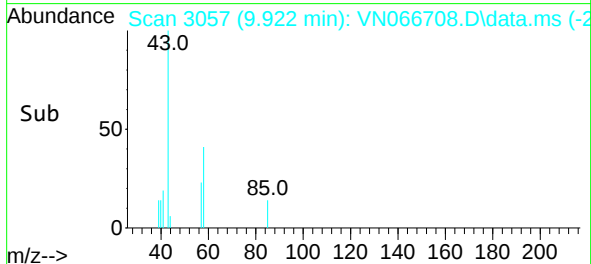
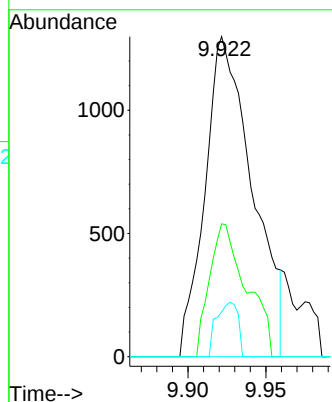


#58
4-Methyl-2-Pentanone
Concen: 0.81 ug/l
RT: 9.922 min Scan# 3057
Delta R.T. -0.000 min
Lab File: VN066708.D
Acq: 22 Apr 2021 12:24

Instrument :
MSVOA_N
ClientSampleId :

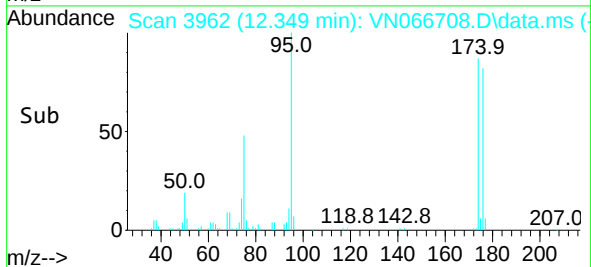
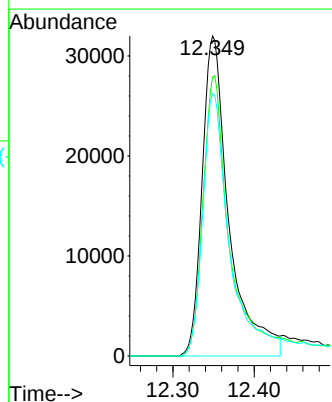
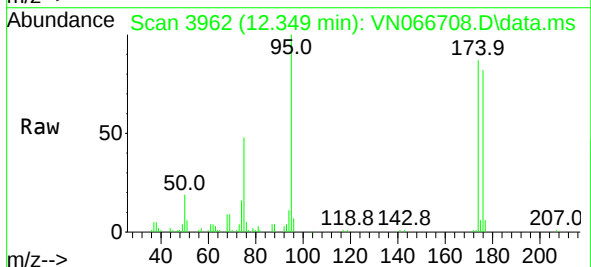


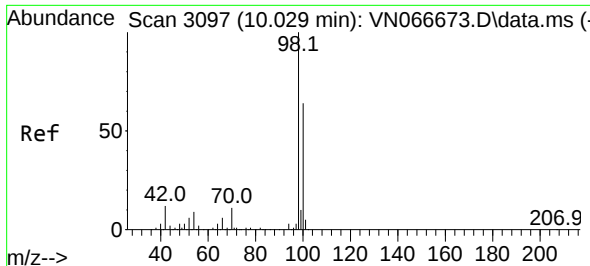
Tgt Ion: 43 Resp: 2749
Ion Ratio Lower Upper
43 100
58 25.8 30.4 45.6#
85 7.6 13.8 20.8#



#60
4-Bromofluorobenzene
Concen: 23.68 ug/l
RT: 12.349 min Scan# 3962
Delta R.T. 0.003 min
Lab File: VN066708.D
Acq: 22 Apr 2021 12:24

Tgt Ion: 95 Resp: 73693
Ion Ratio Lower Upper
95 100
174 87.9 68.1 102.1
176 77.4 65.4 98.0

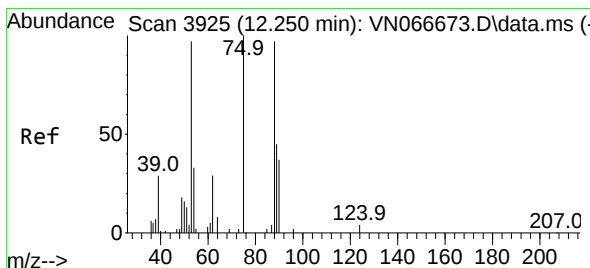
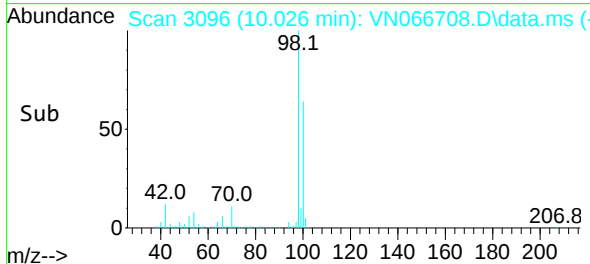
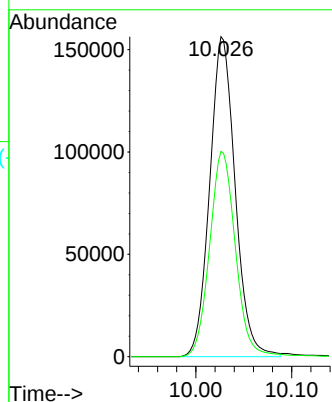
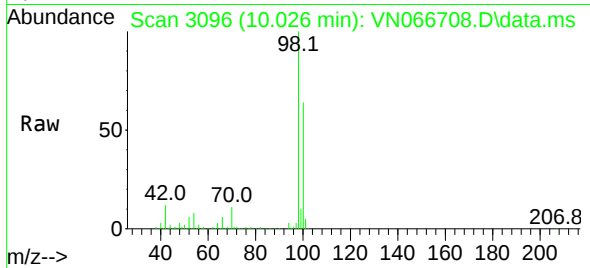




#63
Toluene-d8
Concen: 31.59 ug/l
RT: 10.026 min Scan# 3096
Delta R.T. -0.003 min
Lab File: VN066708.D
Acq: 22 Apr 2021 12:24

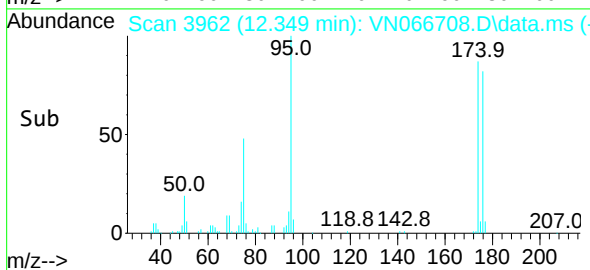
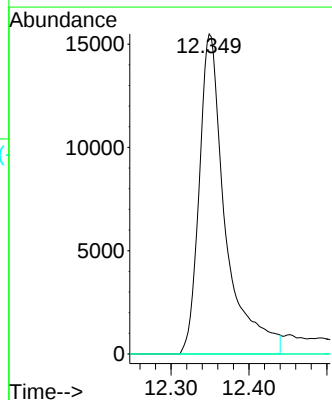
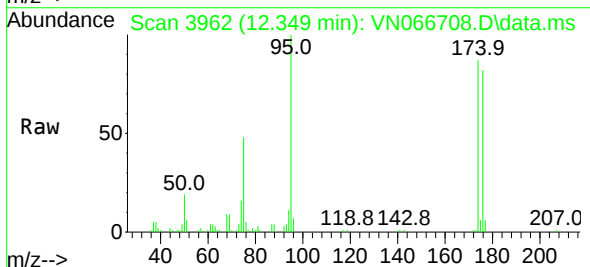
Instrument :
MSVOA_N
ClientSampled :

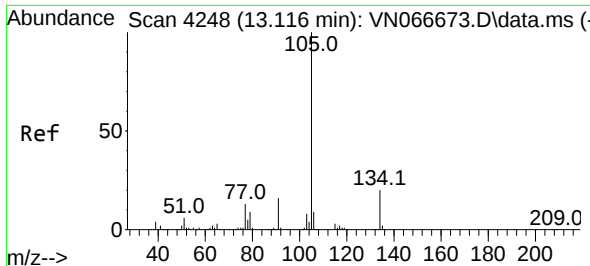
Tgt Ion: 98 Resp: 288526
Ion Ratio Lower Upper
98 100
100 64.9 51.1 76.7



#77
t-1,4-Dichloro-2-butene
Concen: 34.95 ug/l
RT: 12.349 min Scan# 3962
Delta R.T. 0.099 min
Lab File: VN066708.D
Acq: 22 Apr 2021 12:24

Tgt Ion: 75 Resp: 36320
Ion Ratio Lower Upper
75 100
53 0.0 49.6 149.0#
89 0.0 22.9 68.7#

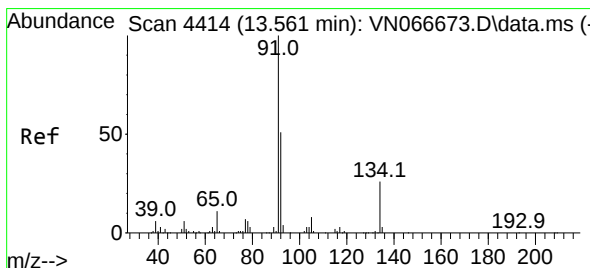
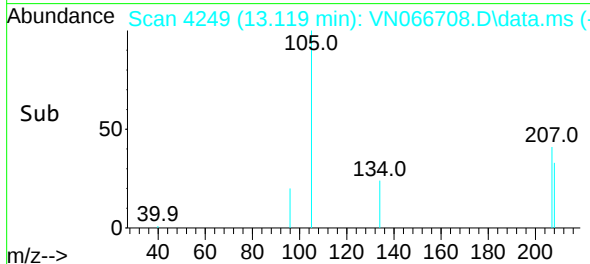
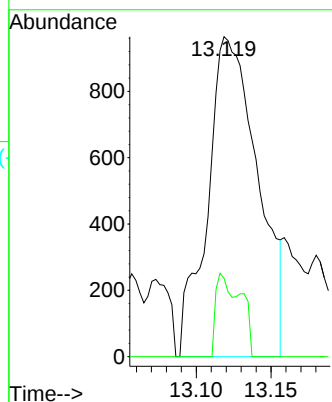
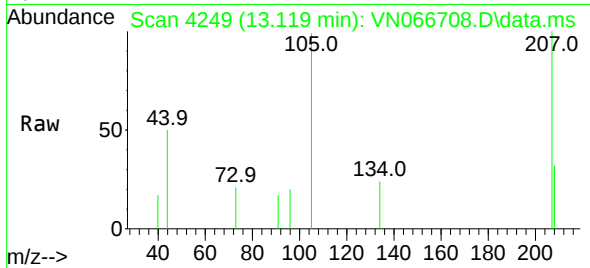




#81
 sec-Butylbenzene
 Concen: 0.21 ug/l
 RT: 13.119 min Scan# 4249
 Delta R.T. 0.003 min
 Lab File: VN066708.D
 Acq: 22 Apr 2021 12:24

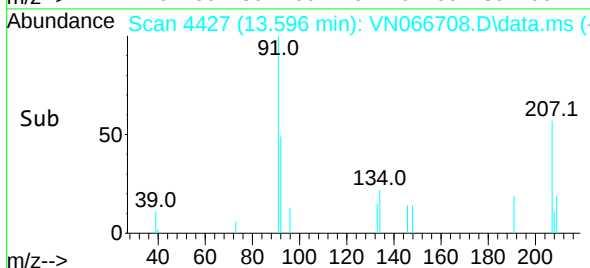
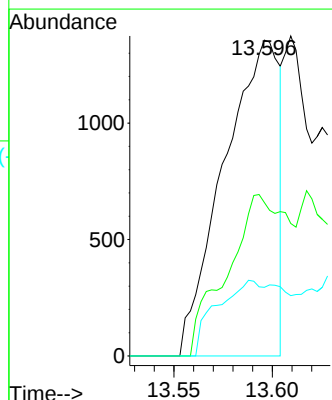
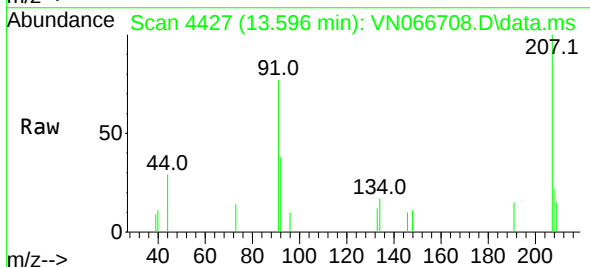
Instrument :
 MSVOA_N
 ClientSampled :

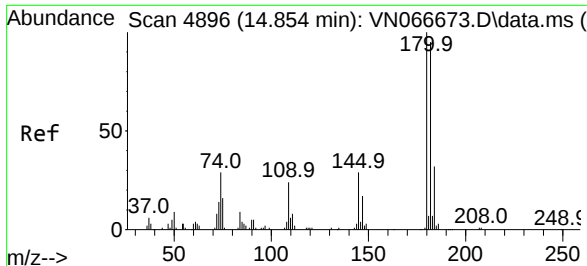
Tgt Ion:105 Resp: 2263
 Ion Ratio Lower Upper
 105 100
 134 7.6 0.0 40.0



#85
 n-Butylbenzene
 Concen: 0.35 ug/l
 RT: 13.596 min Scan# 4427
 Delta R.T. 0.035 min
 Lab File: VN066708.D
 Acq: 22 Apr 2021 12:24

Tgt Ion: 91 Resp: 2651
 Ion Ratio Lower Upper
 91 100
 92 21.6 0.0 102.6
 134 0.0 0.0 49.0

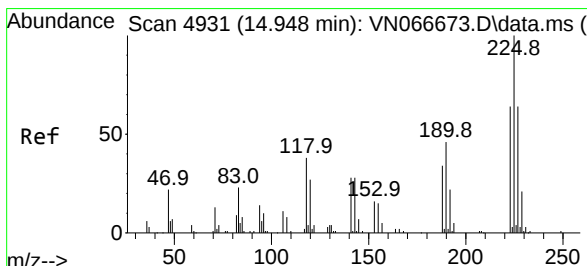
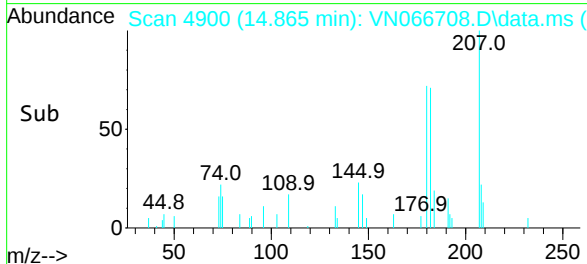
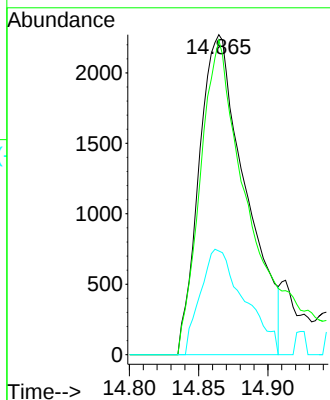
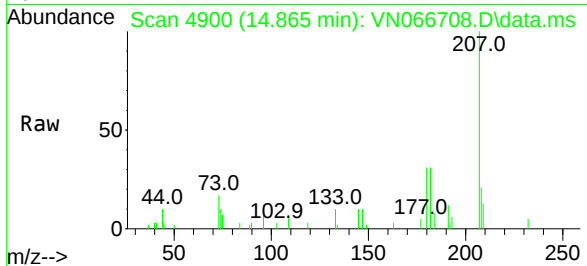




#89
1,2,4-Trichlorobenzene
Concen: 1.94 ug/l
RT: 14.865 min Scan# 4900
Delta R.T. 0.011 min
Lab File: VN066708.D
Acq: 22 Apr 2021 12:24

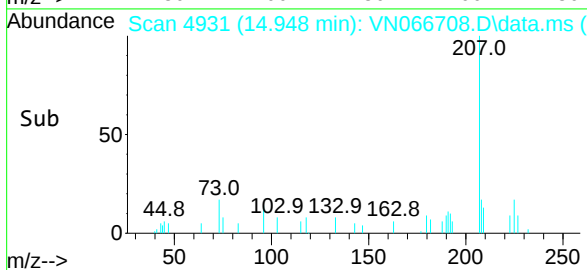
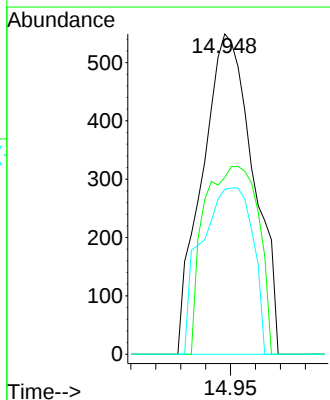
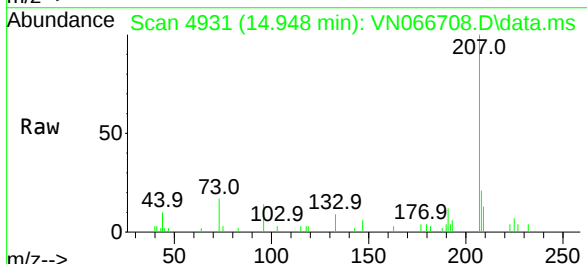
Instrument :
MSVOA_N
ClientSampled :

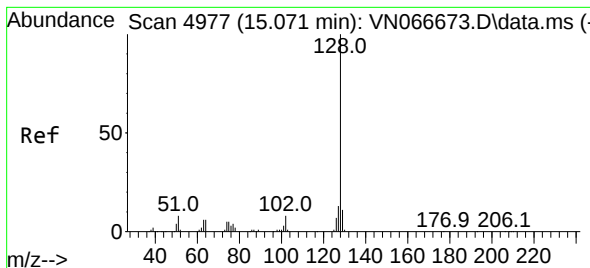
Tgt Ion:180 Resp: 5303
Ion Ratio Lower Upper
180 100
182 102.4 74.3 111.5
145 30.6 23.4 35.0



#90
Hexachlorobutadiene
Concen: 0.51 ug/l
RT: 14.948 min Scan# 4931
Delta R.T. -0.000 min
Lab File: VN066708.D
Acq: 22 Apr 2021 12:24

Tgt Ion:225 Resp: 785
Ion Ratio Lower Upper
225 100
223 21.4 0.0 124.6
227 44.6 0.0 126.6

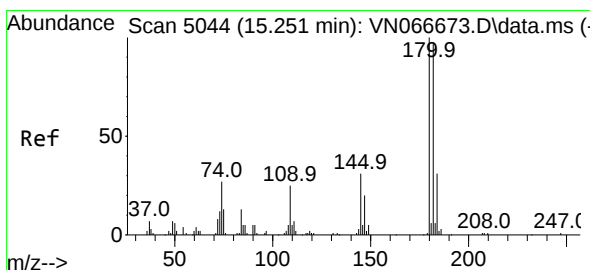
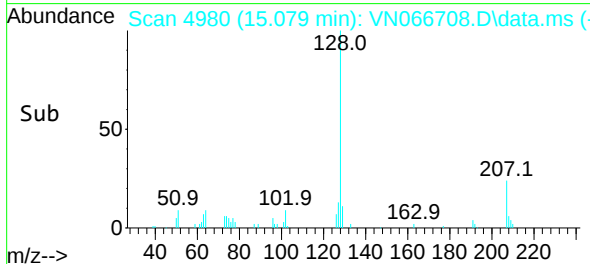
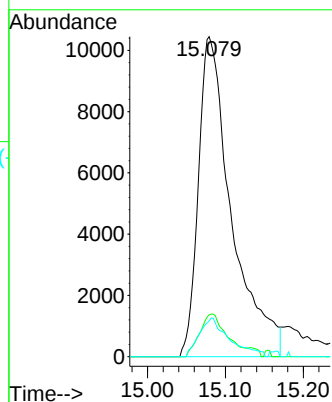
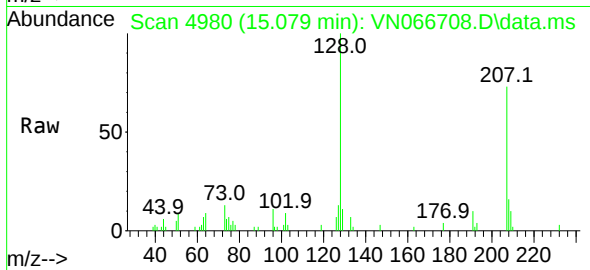




#91
Naphthalene
Concen: 4.70 ug/l
RT: 15.079 min Scan# 4980
Delta R.T. 0.008 min
Lab File: VN066708.D
Acq: 22 Apr 2021 12:24

Instrument :
MSVOA_N
ClientSampled :

Tgt Ion:128 Resp: 30880
Ion Ratio Lower Upper
128 100
127 11.0 10.2 15.2
129 10.9 8.6 13.0



#92
1,2,3-Trichlorobenzene
Concen: 2.90 ug/l
RT: 15.256 min Scan# 5046
Delta R.T. 0.005 min
Lab File: VN066708.D
Acq: 22 Apr 2021 12:24

Tgt Ion:180 Resp: 7496
Ion Ratio Lower Upper
180 100
182 42.1 0.0 190.0
145 28.3 0.0 60.8

