

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121521\
 Data File : VN070115.D
 Acq On : 15 Dec 2021 16:44
 Operator : JC/MD
 Sample : M4970-13
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 16 05:40:06 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 03 08:46:47 2021
 Response via : Initial Calibration

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

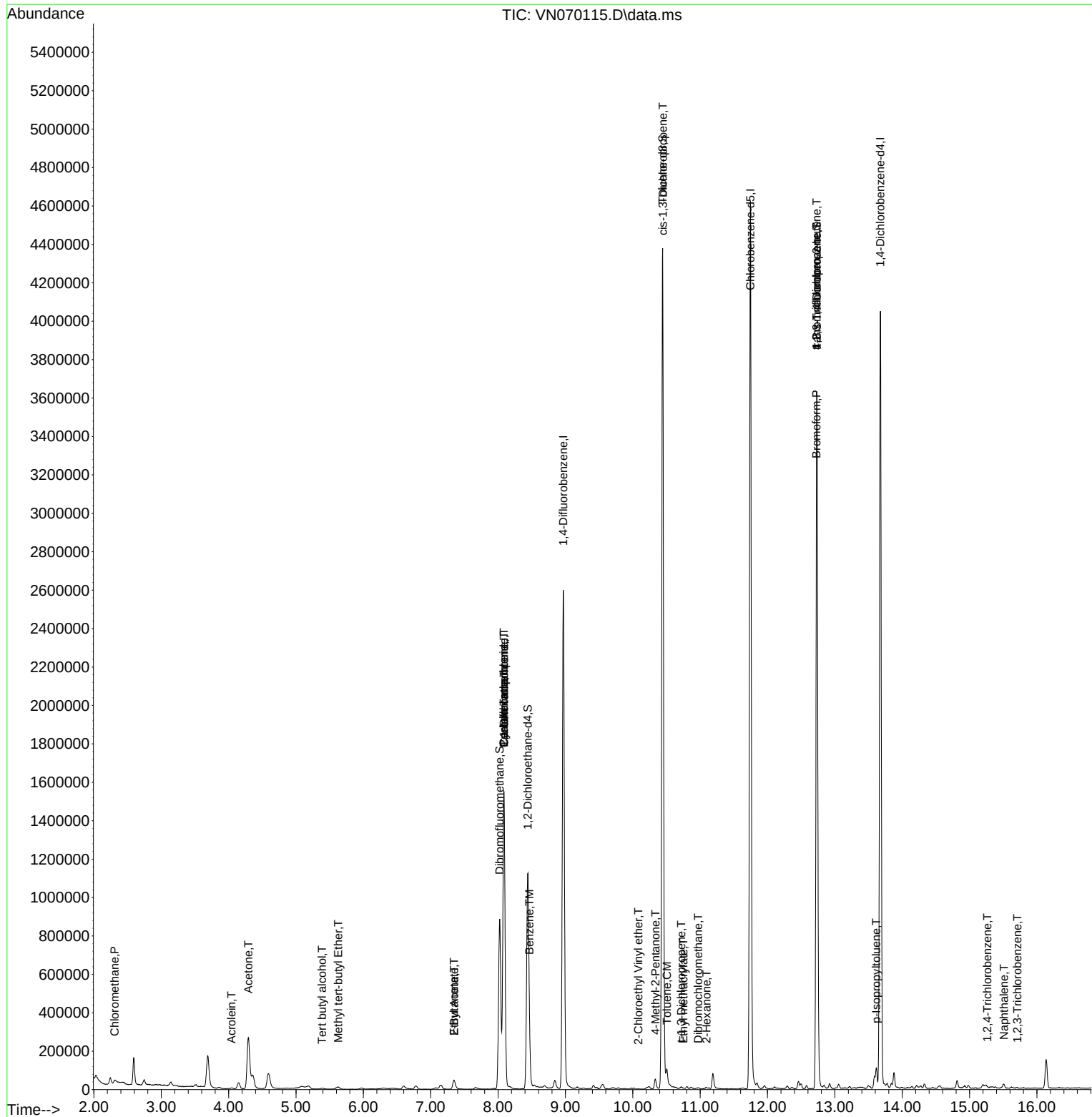
Internal Standards						
1) Pentafluorobenzene	8.088	168	1152292	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	2180634	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.746	117	2580180	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	1076449	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	919062	51.658	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery	=	103.320%	
35) Dibromofluoromethane	8.024	113	642968	47.073	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery	=	94.140%	
50) Toluene-d8	10.443	98	2919713	53.235	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery	=	106.480%	
62) 4-Bromofluorobenzene	12.731	95	1293086	65.079	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery	=	130.160%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.306	50	3473	0.206	ug/l	90
11) Tert butyl alcohol	5.385	59	6954	2.068	ug/l #	82
13) Acrolein	4.041	56	6258	2.185	ug/l #	55
16) Acetone	4.293	43	526072	49.155	ug/l	97
19) Methyl tert-butyl Ether	5.629	73	10587	0.248	ug/l #	16
25) 2-Butanone	7.345	43	81679	5.617	ug/l	93
31) Cyclohexane	8.088	56	33220	1.342	ug/l #	31
36) 1,1-Dichloropropene	8.086	75	97581	4.701	ug/l #	49
37) Ethyl Acetate	7.345	43	81679	2.644	ug/l #	68
38) Carbon Tetrachloride	8.086	117	118009	5.797	ug/l #	17
40) Benzene	8.464	78	165028	2.601	ug/l	98
51) 4-Methyl-2-Pentanone	10.336	43	38794	1.308	ug/l	94
52) Toluene	10.505	92	31295	0.808	ug/l	96
53) t-1,3-Dichloropropene	10.719	75	79	2.797	ug/l #	1
54) cis-1,3-Dichloropropene	10.446	75	507	2.017	ug/l #	1
56) Ethyl methacrylate	10.751	69	332	2.290	ug/l #	65
58) 2-Chloroethyl Vinyl ether	10.084	63	54	18.395	ug/l #	45
59) 2-Hexanone	11.095	43	5136	0.229	ug/l	91
60) Dibromochloromethane	10.969	129	53	2.379	ug/l #	11
71) Bromoform	12.725	173	4022	2.972	ug/l #	29
76) 1,2,3-Trichloropropane	12.731	75	711542	23.050	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	711542	73.372	ug/l #	5
86) p-Isopropyltoluene	13.616	119	58069	0.802	ug/l	94
93) 1,2,4-Trichlorobenzene	15.265	180	1107	2.937	ug/l #	56
95) Naphthalene	15.512	128	20509	4.344	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.708	180	652	2.472	ug/l	87

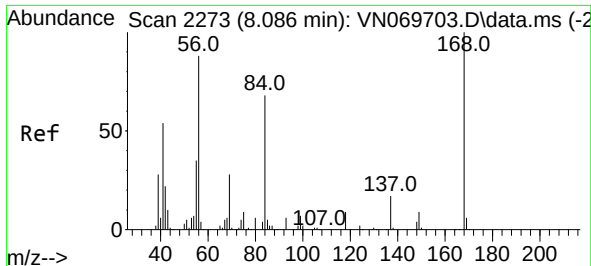
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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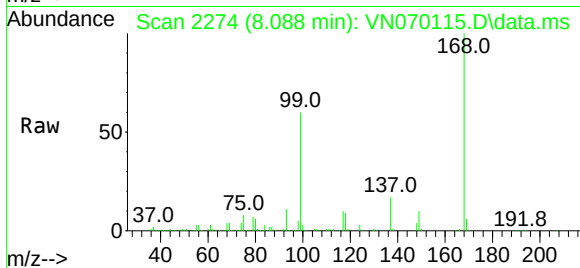
Quant Time: Dec 16 05:40:06 2021
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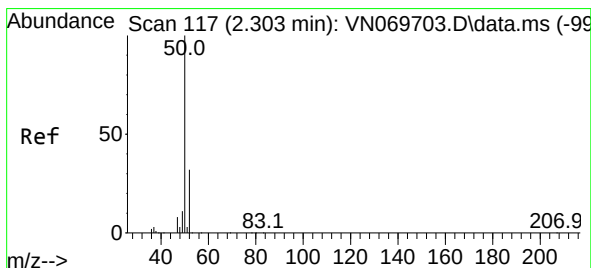
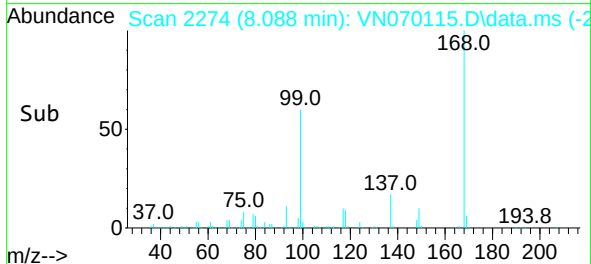
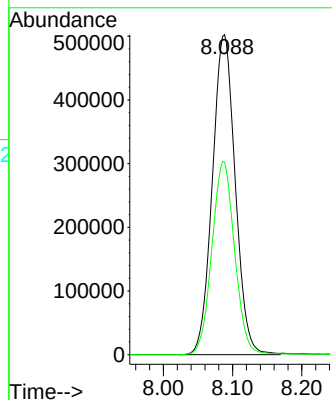


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 21
Delta R.T. 0.002 min
Lab File: VN070115.D
Acq: 15 Dec 2021 16:44

Instrument :
MSVOA_N
ClientSampleId :

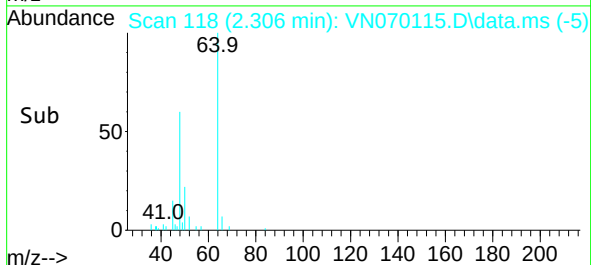
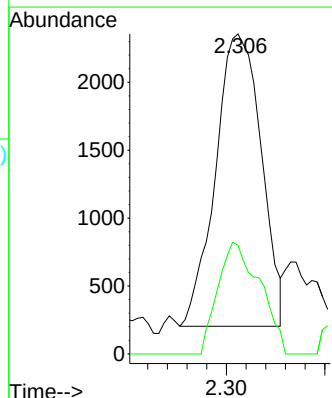
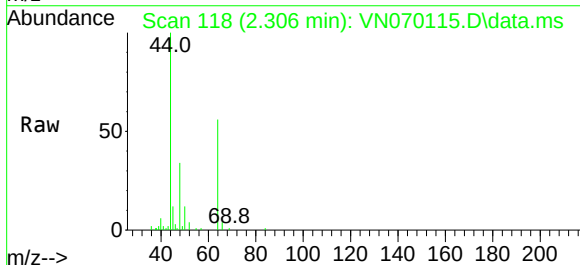


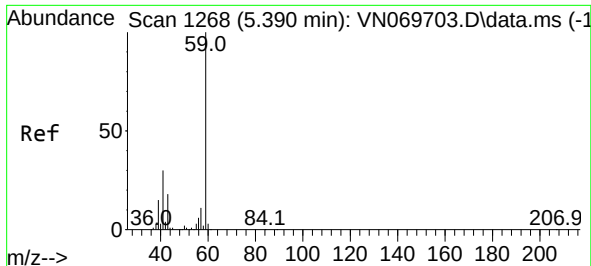
Tgt Ion:168 Resp: 1152292
Ion Ratio Lower Upper
168 100
99 60.2 41.3 61.9



#3
Chloromethane
Concen: 0.206 ug/l
RT: 2.306 min Scan# 118
Delta R.T. 0.003 min
Lab File: VN070115.D
Acq: 15 Dec 2021 16:44

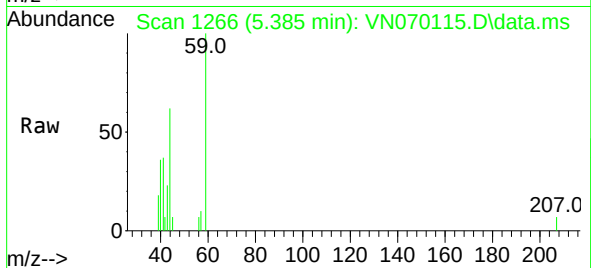
Tgt Ion: 50 Resp: 3473
Ion Ratio Lower Upper
50 100
52 37.1 25.4 38.0



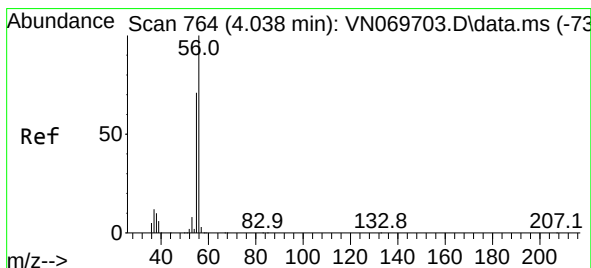
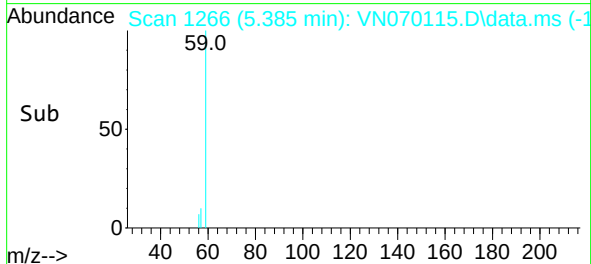
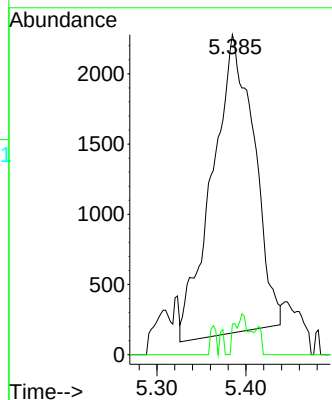


#11
Tert butyl alcohol
Concen: 2.068 ug/l
RT: 5.385 min Scan# 11
Delta R.T. -0.005 min
Lab File: VN070115.D
Acq: 15 Dec 2021 16:44

Instrument :
MSVOA_N
ClientSampleId :

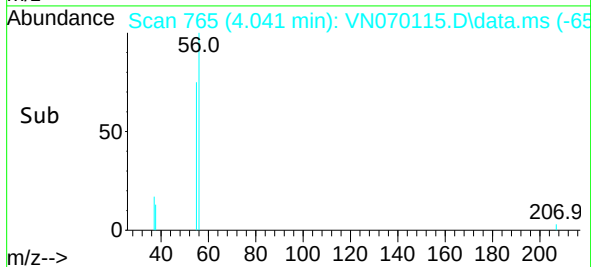
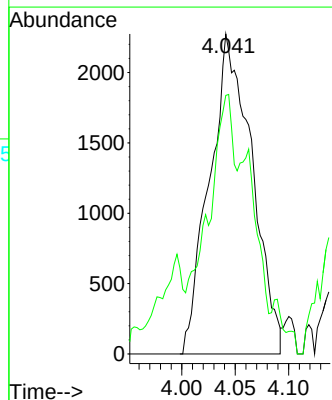
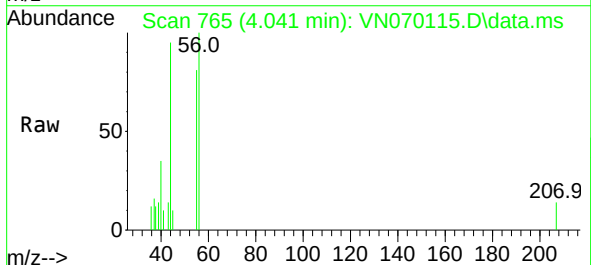


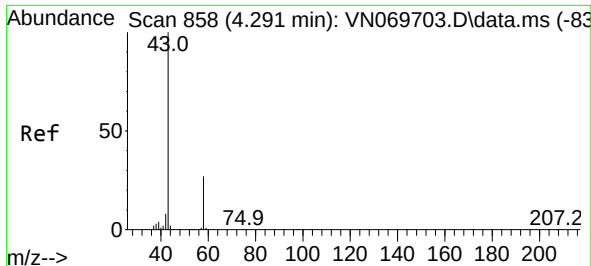
Tgt Ion: 59 Resp: 6954
Ion Ratio Lower Upper
59 100
57 4.1 8.7 13.1#



#13
Acrolein
Concen: 2.185 ug/l
RT: 4.041 min Scan# 765
Delta R.T. 0.003 min
Lab File: VN070115.D
Acq: 15 Dec 2021 16:44

Tgt Ion: 56 Resp: 6258
Ion Ratio Lower Upper
56 100
55 33.4 56.6 85.0#

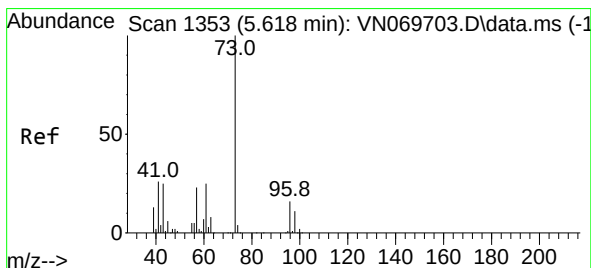
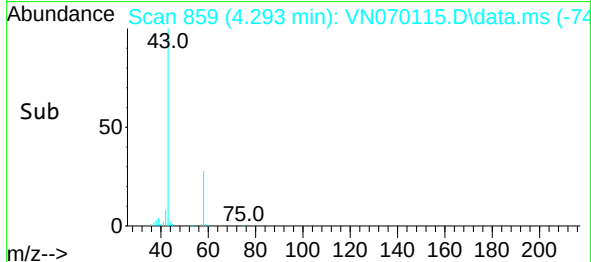
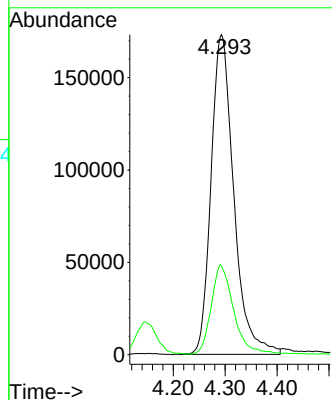
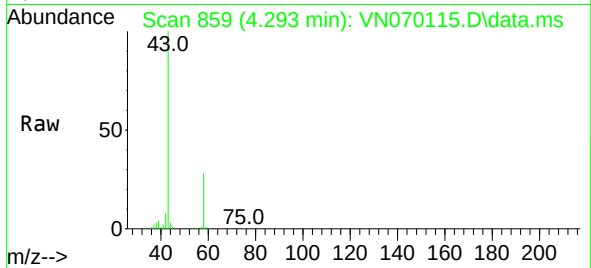




#16
Acetone
Concen: 49.155 ug/l
RT: 4.293 min Scan# 858
Delta R.T. 0.003 min
Lab File: VN070115.D
Acq: 15 Dec 2021 16:44

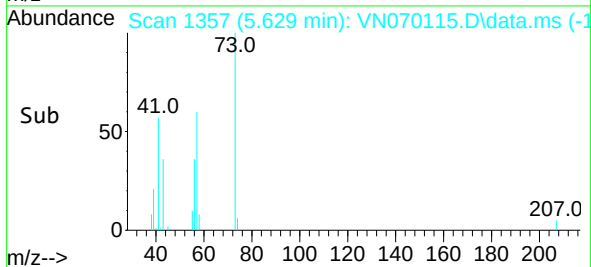
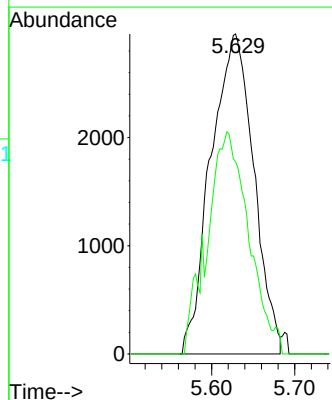
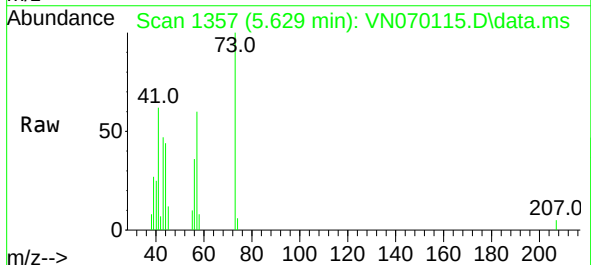
Instrument :
MSVOA_N
ClientSampleId :

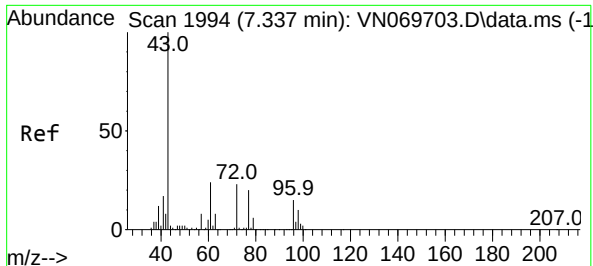
Tgt Ion: 43 Resp: 526072
Ion Ratio Lower Upper
43 100
58 27.2 23.1 34.7



#19
Methyl tert-butyl Ether
Concen: 0.248 ug/l
RT: 5.629 min Scan# 1357
Delta R.T. 0.011 min
Lab File: VN070115.D
Acq: 15 Dec 2021 16:44

Tgt Ion: 73 Resp: 10587
Ion Ratio Lower Upper
73 100
57 60.1 16.8 25.2#





#25

2-Butanone

Concen: 5.617 ug/l

RT: 7.345 min Scan# 1994

Delta R.T. 0.008 min

Lab File: VN070115.D

Acq: 15 Dec 2021 16:44

Instrument :

MSVOA_N

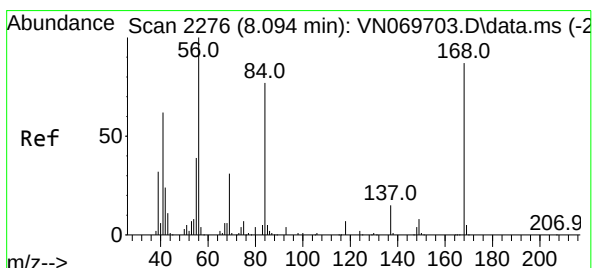
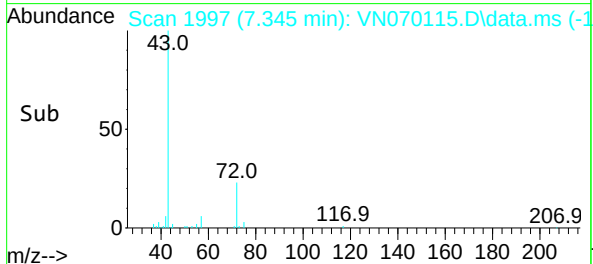
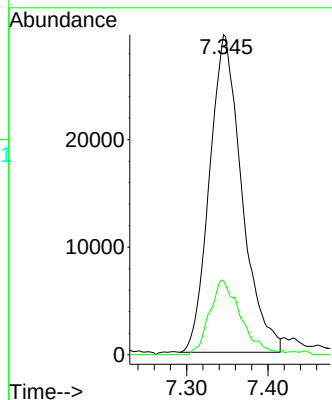
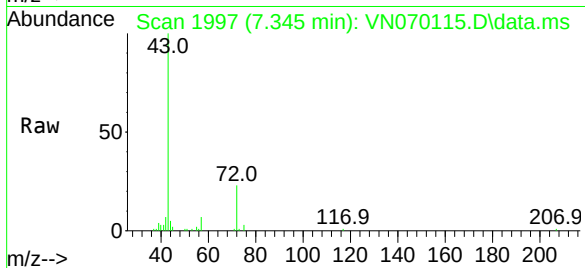
ClientSampleId :

Tgt Ion: 43 Resp: 81679

Ion Ratio Lower Upper

43 100

72 23.2 21.7 32.5



#31

Cyclohexane

Concen: 1.342 ug/l

RT: 8.088 min Scan# 2274

Delta R.T. -0.005 min

Lab File: VN070115.D

Acq: 15 Dec 2021 16:44

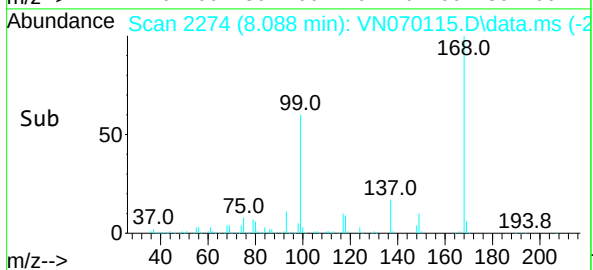
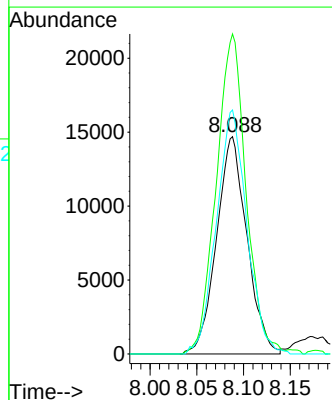
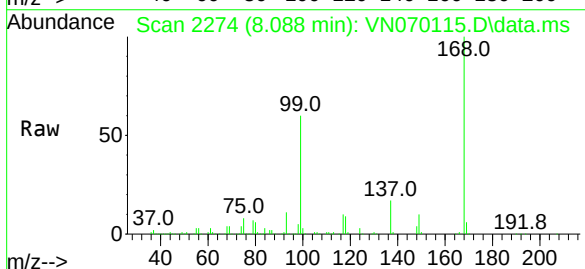
Tgt Ion: 56 Resp: 33220

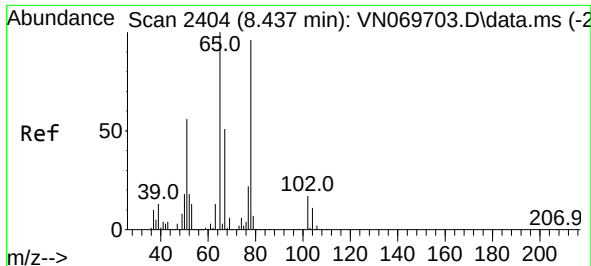
Ion Ratio Lower Upper

56 100

69 147.3 27.1 40.7#

84 112.3 73.4 110.0#





#33

1,2-Dichloroethane-d4

Concen: 51.658 ug/l

RT: 8.440 min Scan# 24

Delta R.T. 0.003 min

Lab File: VN070115.D

Acq: 15 Dec 2021 16:44

Instrument :

MSVOA_N

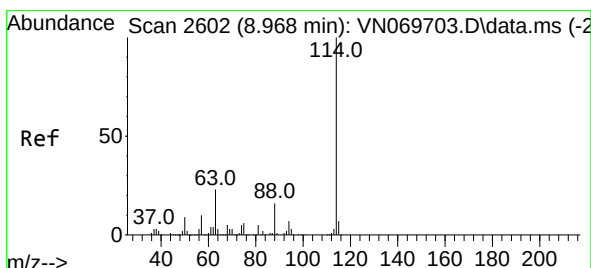
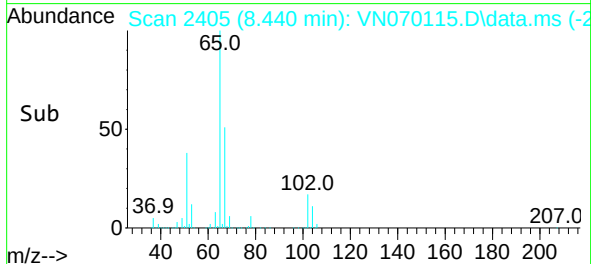
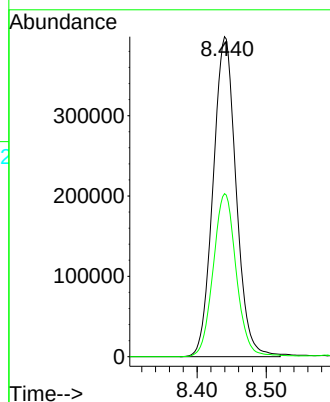
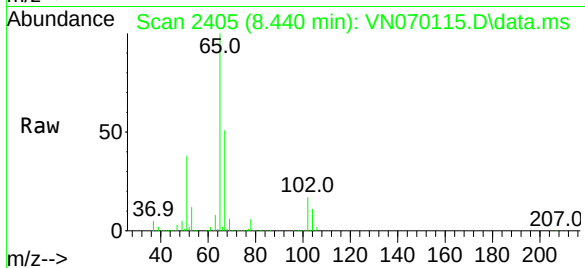
ClientSampleId :

Tgt Ion: 65 Resp: 919062

Ion Ratio Lower Upper

65 100

67 51.2 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.968 min Scan# 2602

Delta R.T. -0.000 min

Lab File: VN070115.D

Acq: 15 Dec 2021 16:44

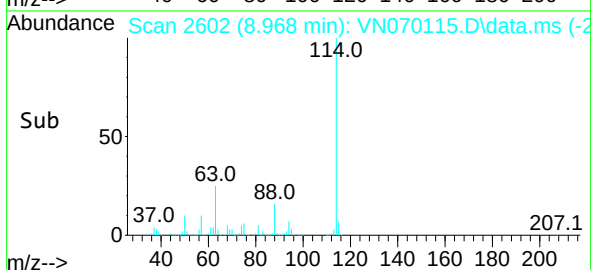
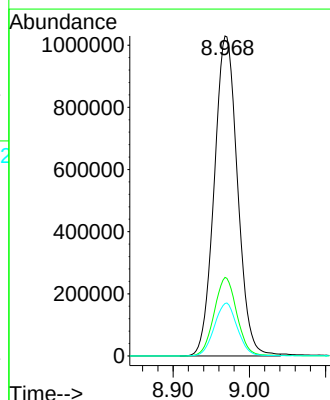
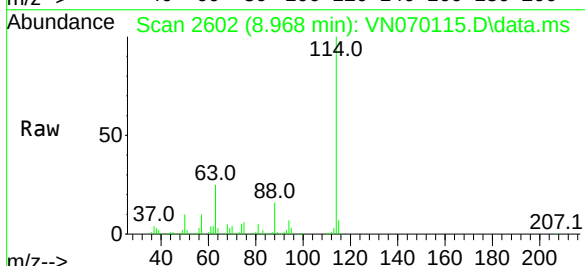
Tgt Ion: 114 Resp: 2180634

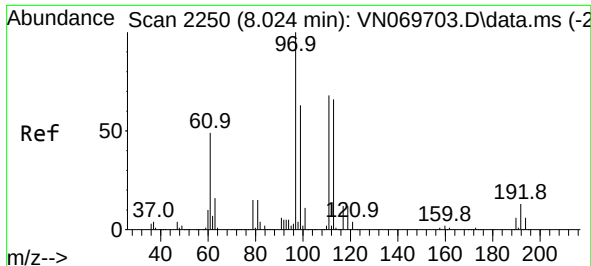
Ion Ratio Lower Upper

114 100

63 24.5 0.0 37.8

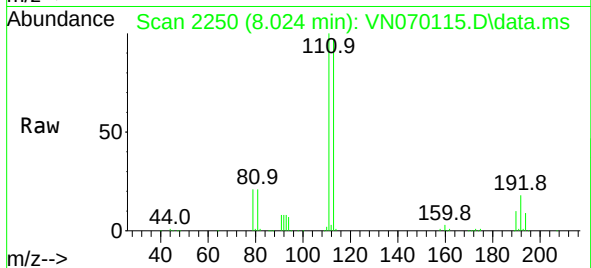
88 16.4 0.0 27.4



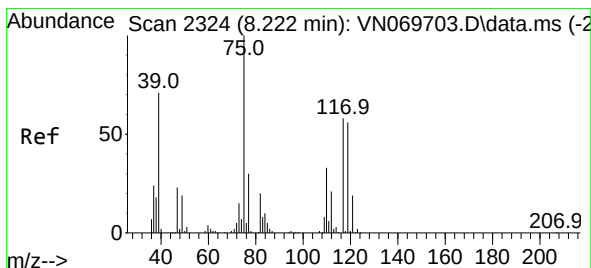
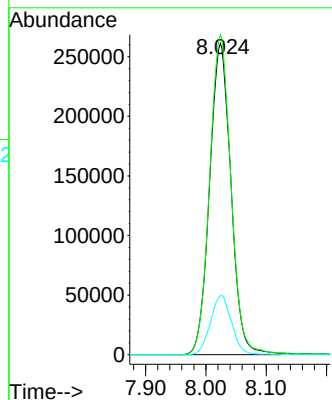
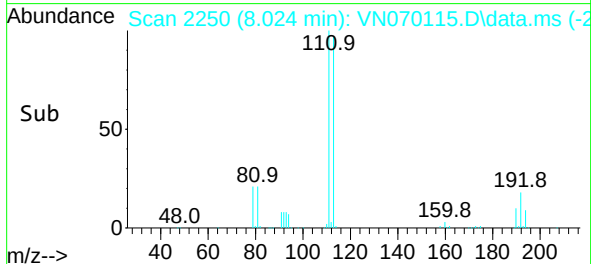


#35
 Dibromofluoromethane
 Concen: 47.073 ug/l
 RT: 8.024 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN070115.D
 Acq: 15 Dec 2021 16:44

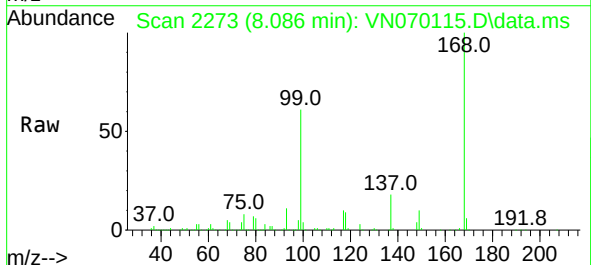
Instrument :
 MSVOA_N
 ClientSampleId :



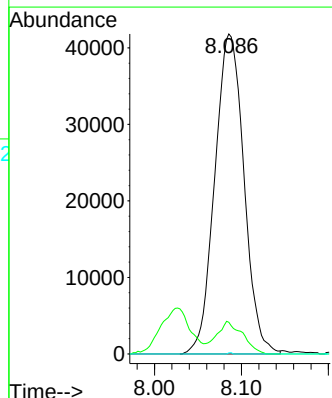
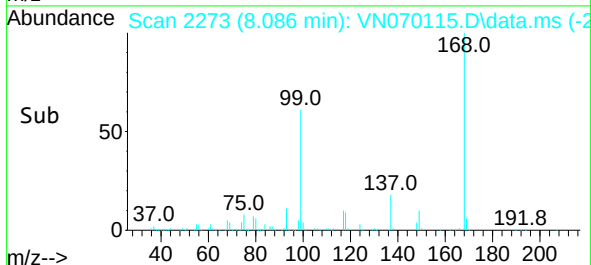
Tgt Ion:113 Resp: 642968
 Ion Ratio Lower Upper
 113 100
 111 102.8 82.2 123.2
 192 18.8 16.9 25.3

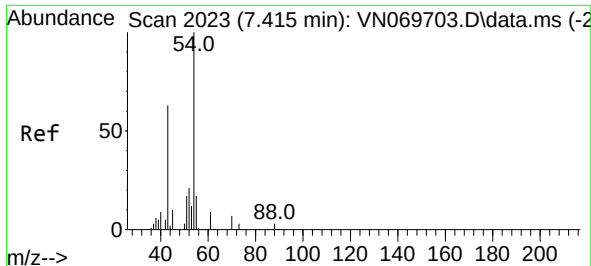


#36
 1,1-Dichloropropene
 Concen: 4.701 ug/l
 RT: 8.086 min Scan# 2273
 Delta R.T. -0.137 min
 Lab File: VN070115.D
 Acq: 15 Dec 2021 16:44



Tgt Ion: 75 Resp: 97581
 Ion Ratio Lower Upper
 75 100
 110 9.2 18.4 55.2#
 77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 2.644 ug/l

RT: 7.345 min Scan# 19

Delta R.T. -0.070 min

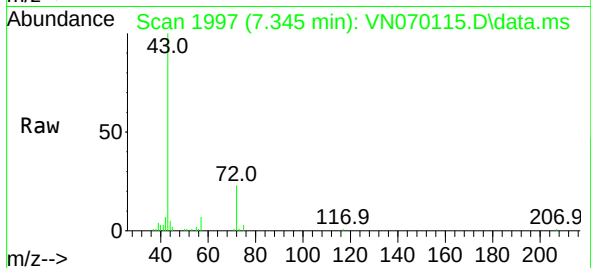
Lab File: VN070115.D

Acq: 15 Dec 2021 16:44

Instrument :

MSVOA_N

ClientSampleId :



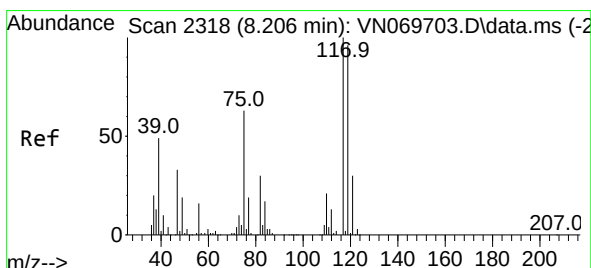
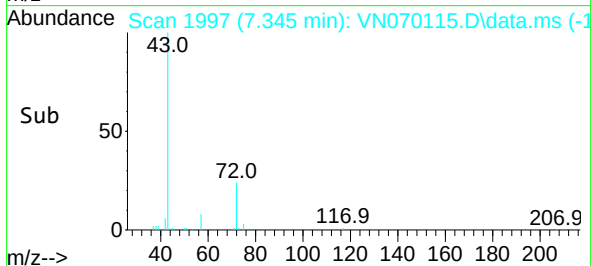
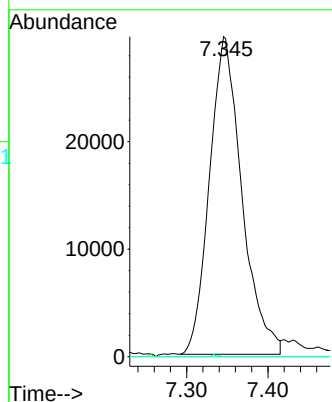
Tgt Ion: 43 Resp: 81679

Ion Ratio Lower Upper

43 100

61 0.1 11.5 17.3#

70 0.0 7.9 11.9#



#38

Carbon Tetrachloride

Concen: 5.797 ug/l

RT: 8.086 min Scan# 2273

Delta R.T. -0.121 min

Lab File: VN070115.D

Acq: 15 Dec 2021 16:44

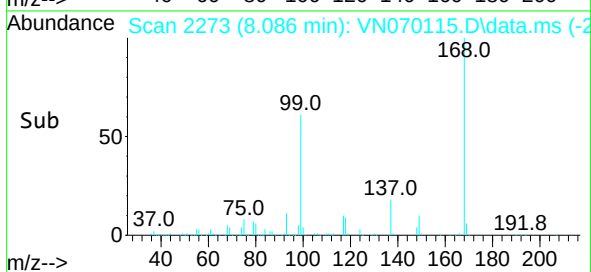
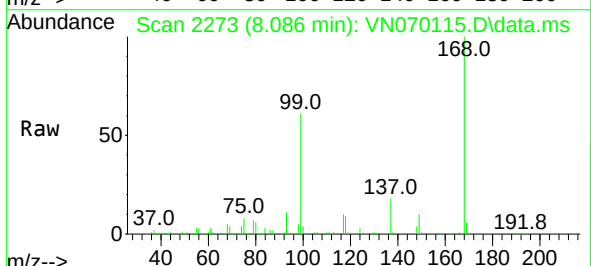
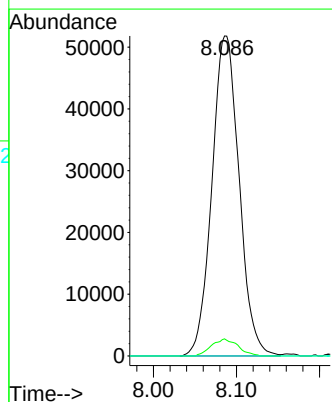
Tgt Ion: 117 Resp: 118009

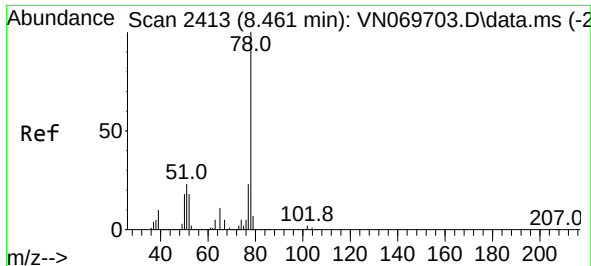
Ion Ratio Lower Upper

117 100

119 5.4 76.1 114.1#

121 0.0 24.2 36.2#

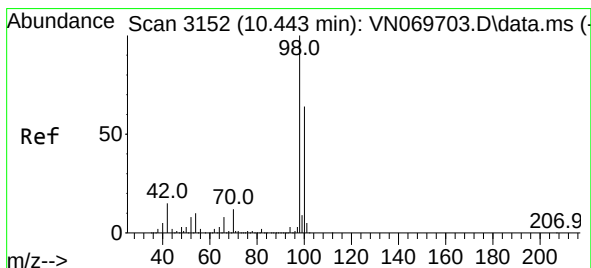
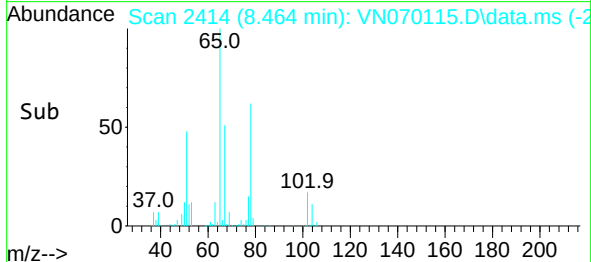
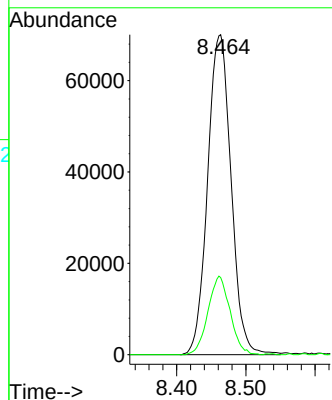
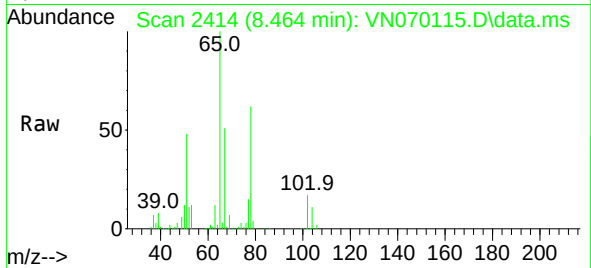




#40
Benzene
Concen: 2.601 ug/l
RT: 8.464 min Scan# 2413
Delta R.T. 0.003 min
Lab File: VN070115.D
Acq: 15 Dec 2021 16:44

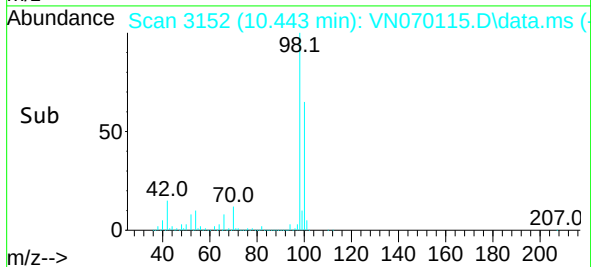
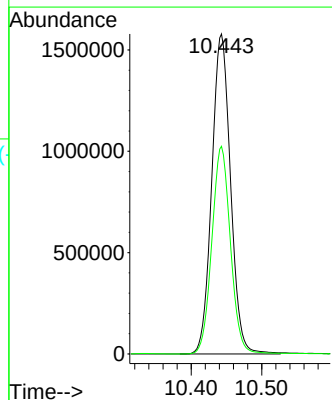
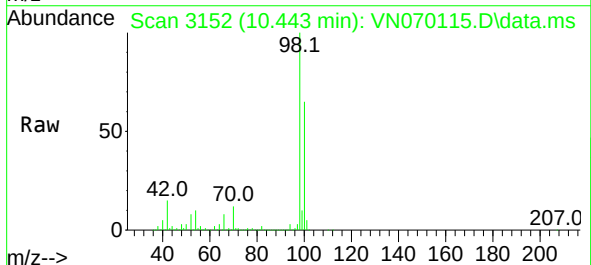
Instrument :
MSVOA_N
ClientSampleId :

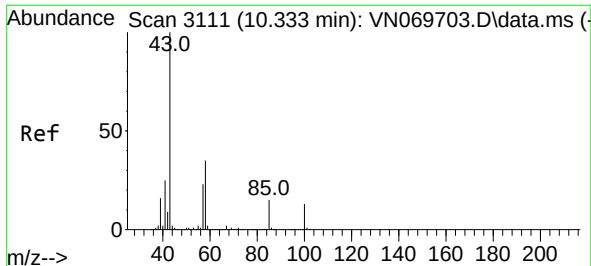
Tgt Ion: 78 Resp: 165028
Ion Ratio Lower Upper
78 100
77 24.1 18.6 27.8



#50
Toluene-d8
Concen: 53.235 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN070115.D
Acq: 15 Dec 2021 16:44

Tgt Ion: 98 Resp: 2919713
Ion Ratio Lower Upper
98 100
100 64.3 50.4 75.6





#51

4-Methyl-2-Pentanone

Concen: 1.308 ug/l

RT: 10.336 min Scan# 3111

Delta R.T. 0.003 min

Lab File: VN070115.D

Acq: 15 Dec 2021 16:44

Instrument :

MSVOA_N

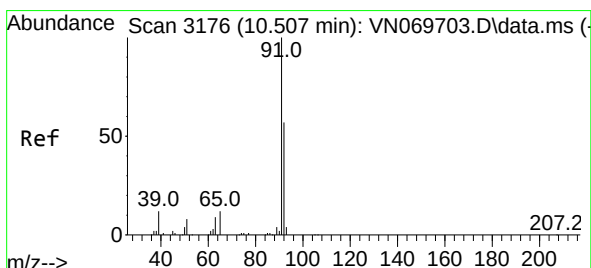
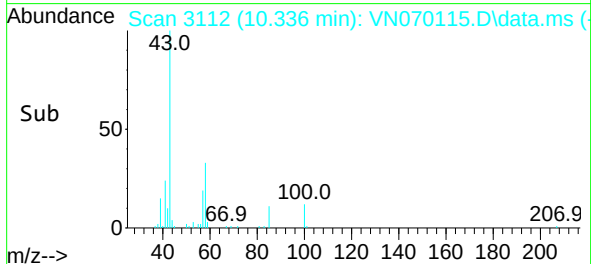
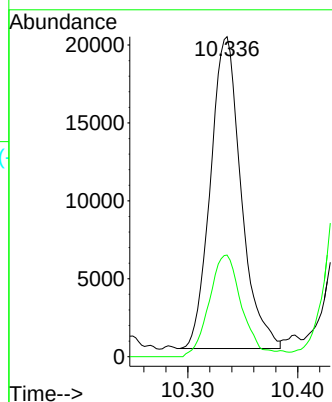
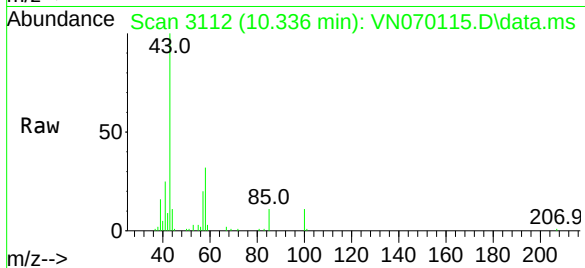
ClientSampleId :

Tgt Ion: 43 Resp: 38794

Ion Ratio Lower Upper

43 100

58 34.4 30.4 45.6



#52

Toluene

Concen: 0.808 ug/l

RT: 10.505 min Scan# 3175

Delta R.T. -0.003 min

Lab File: VN070115.D

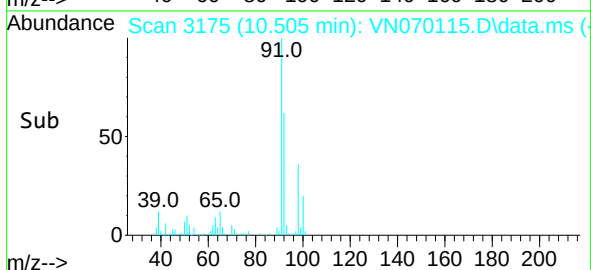
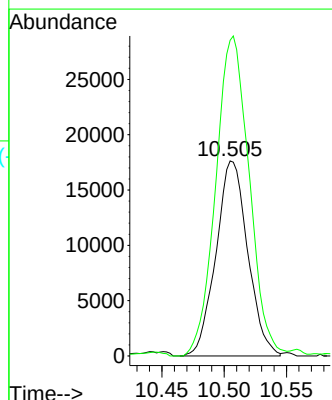
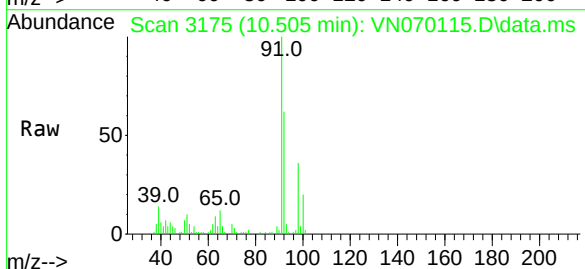
Acq: 15 Dec 2021 16:44

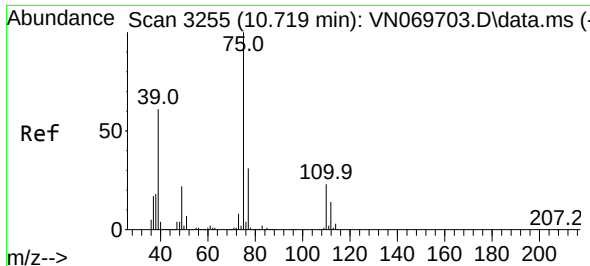
Tgt Ion: 92 Resp: 31295

Ion Ratio Lower Upper

92 100

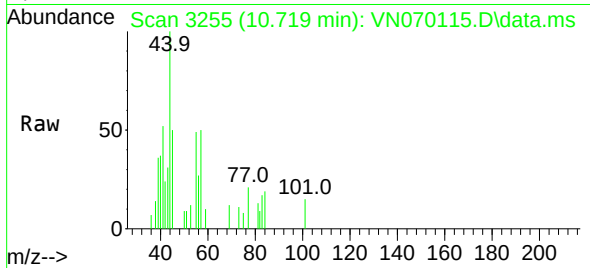
91 172.5 142.0 213.0



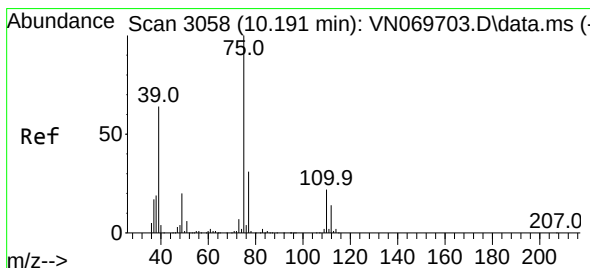
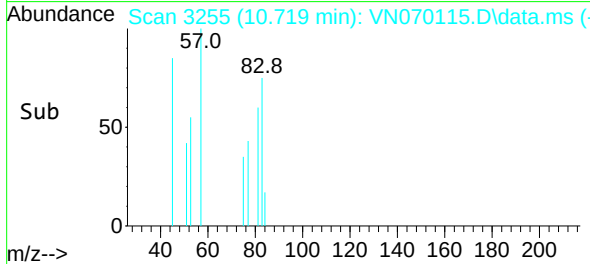
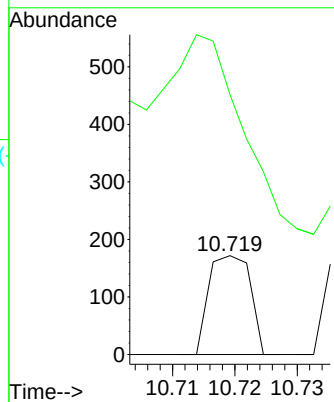


#53
t-1,3-Dichloropropene
Concen: 2.797 ug/l
RT: 10.719 min Scan# 3153
Delta R.T. 0.000 min
Lab File: VN070115.D
Acq: 15 Dec 2021 16:44

Instrument :
MSVOA_N
ClientSampleId :

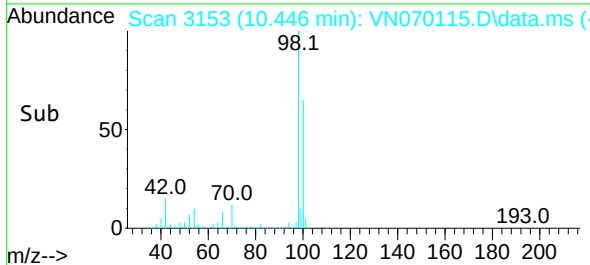
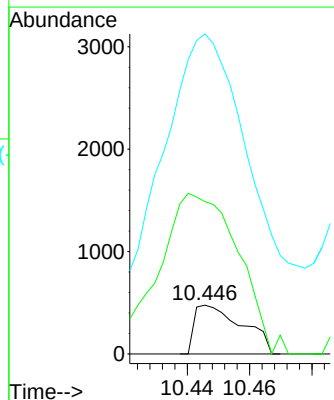
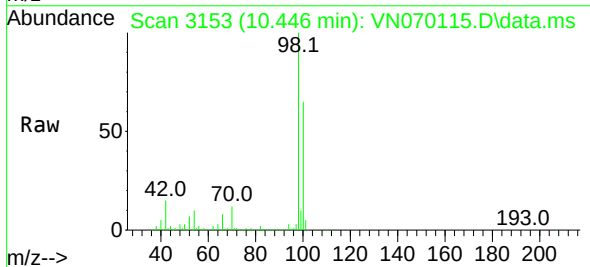


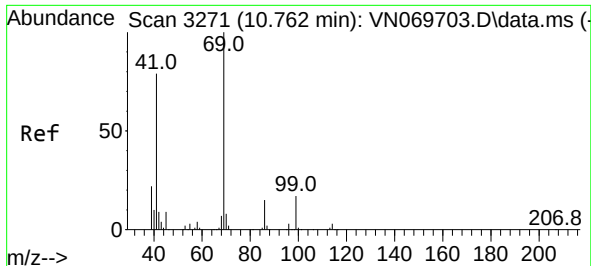
Tgt Ion: 75 Resp: 79
Ion Ratio Lower Upper
75 100
77 121.5 25.6 38.4#



#54
cis-1,3-Dichloropropene
Concen: 2.017 ug/l
RT: 10.446 min Scan# 3153
Delta R.T. 0.255 min
Lab File: VN070115.D
Acq: 15 Dec 2021 16:44

Tgt Ion: 75 Resp: 507
Ion Ratio Lower Upper
75 100
77 273.4 26.4 39.6#
39 453.5 42.5 63.7#

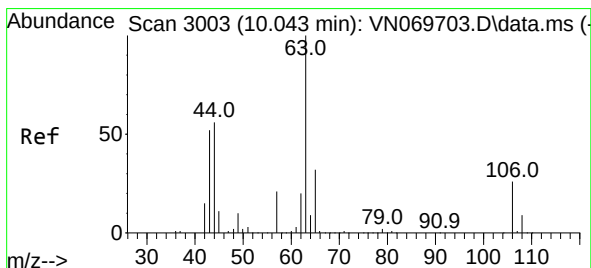
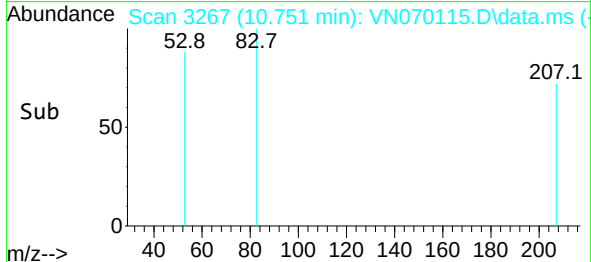
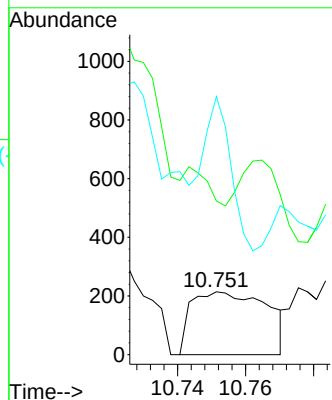
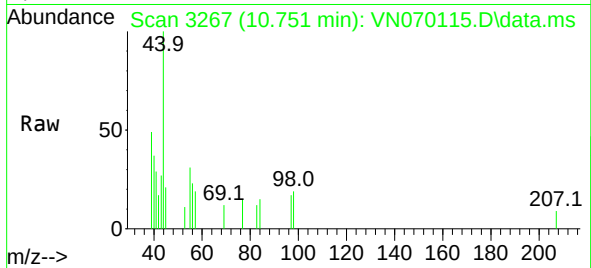




#56
Ethyl methacrylate
Concen: 2.290 ug/l
RT: 10.751 min Scan# 31
Delta R.T. -0.011 min
Lab File: VN070115.D
Acq: 15 Dec 2021 16:44

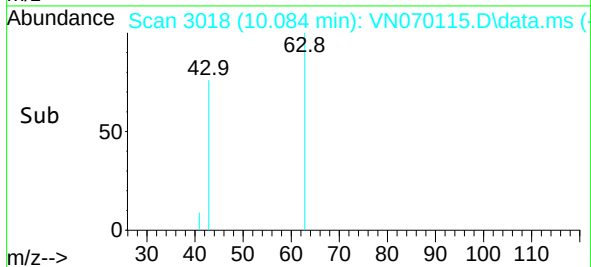
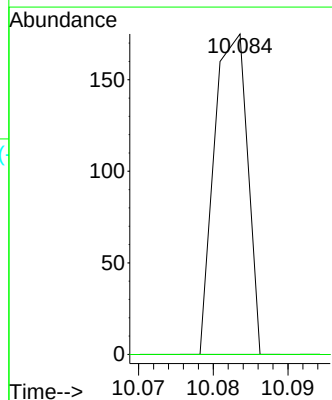
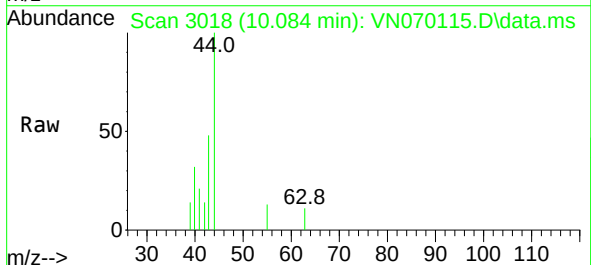
Instrument :
MSVOA_N
ClientSampleId :

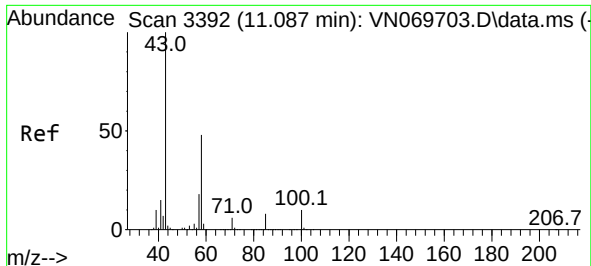
Tgt Ion: 69 Resp: 332
Ion Ratio Lower Upper
69 100
41 70.8 51.4 77.0
39 91.0 34.6 52.0#



#58
2-Chloroethyl Vinyl ether
Concen: 18.395 ug/l
RT: 10.084 min Scan# 3018
Delta R.T. 0.041 min
Lab File: VN070115.D
Acq: 15 Dec 2021 16:44

Tgt Ion: 63 Resp: 54
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#

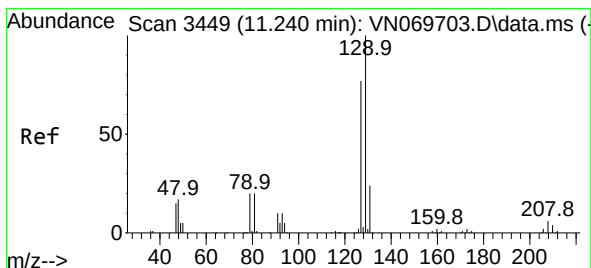
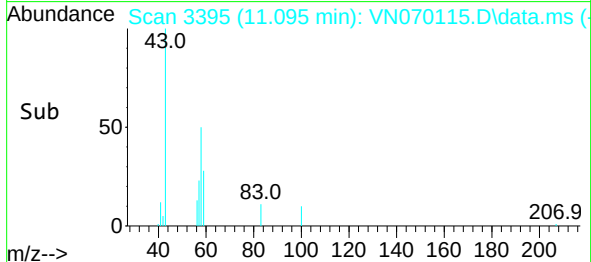
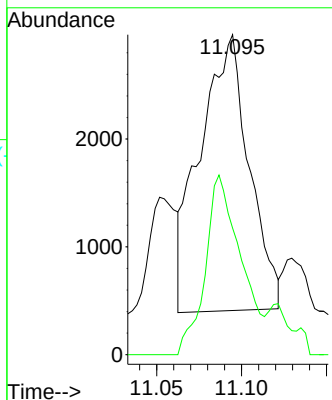
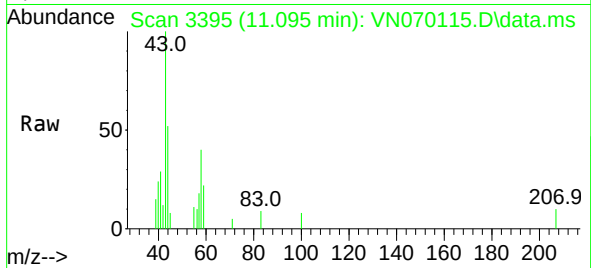




#59
2-Hexanone
Concen: 0.229 ug/l
RT: 11.095 min Scan# 31
Delta R.T. 0.008 min
Lab File: VN070115.D
Acq: 15 Dec 2021 16:44

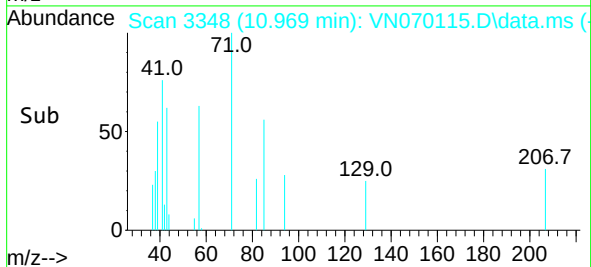
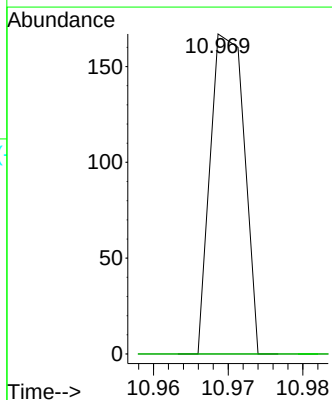
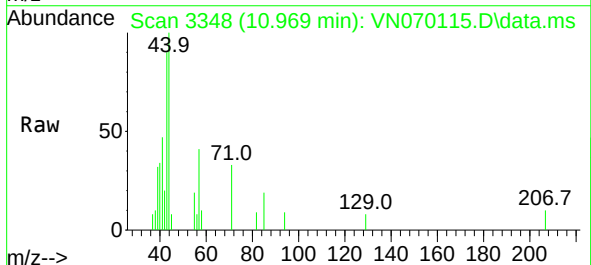
Instrument :
MSVOA_N
ClientSampleId :

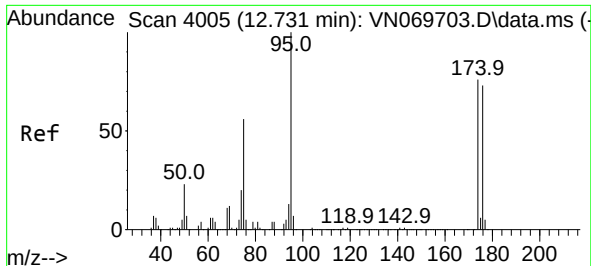
Tgt Ion: 43 Resp: 5136
Ion Ratio Lower Upper
43 100
58 47.4 26.9 80.7



#60
Dibromochloromethane
Concen: 2.379 ug/l
RT: 10.969 min Scan# 3348
Delta R.T. -0.271 min
Lab File: VN070115.D
Acq: 15 Dec 2021 16:44

Tgt Ion:129 Resp: 53
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#

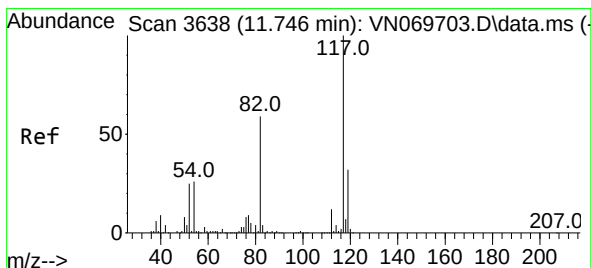
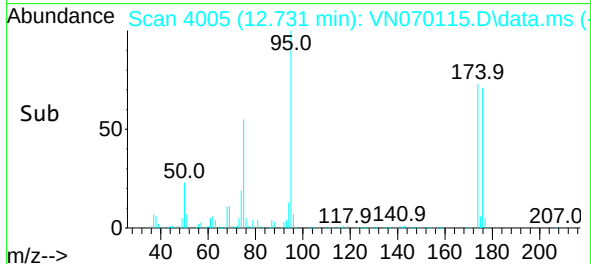
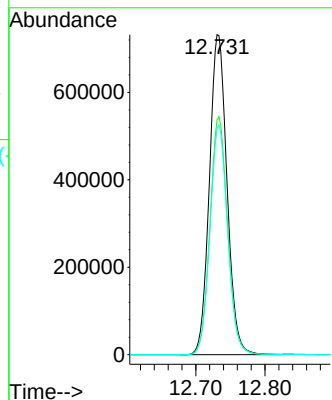
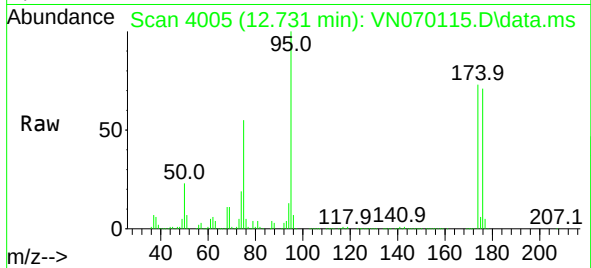




#62
4-Bromofluorobenzene
Concen: 65.079 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN070115.D
Acq: 15 Dec 2021 16:44

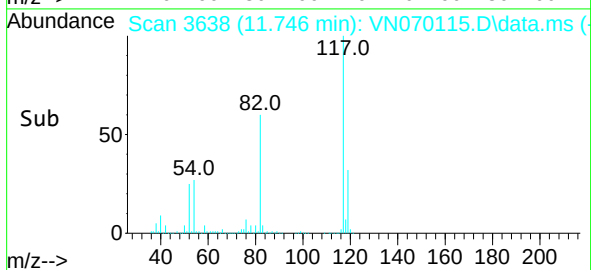
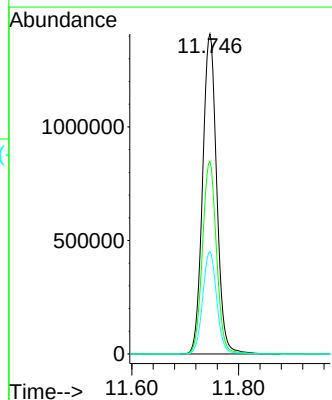
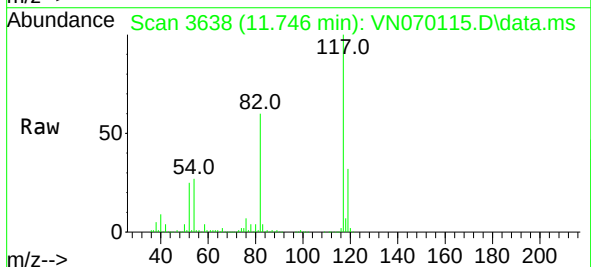
Instrument :
MSVOA_N
ClientSampleId :

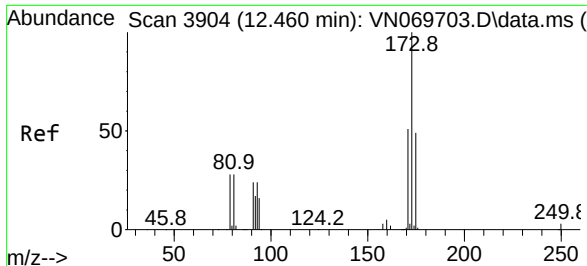
Tgt Ion: 95 Resp: 1293086
Ion Ratio Lower Upper
95 100
174 74.8 0.0 187.2
176 72.0 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.746 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN070115.D
Acq: 15 Dec 2021 16:44

Tgt Ion: 117 Resp: 2580180
Ion Ratio Lower Upper
117 100
82 60.2 42.4 63.6
119 32.0 25.4 38.2

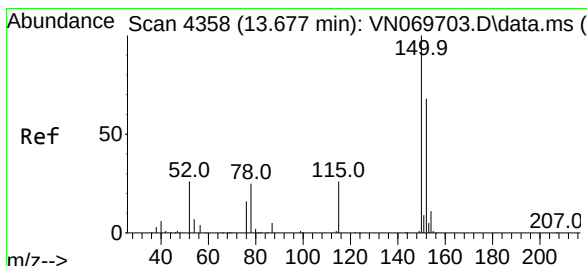
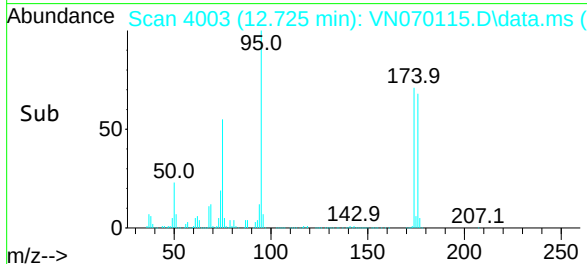
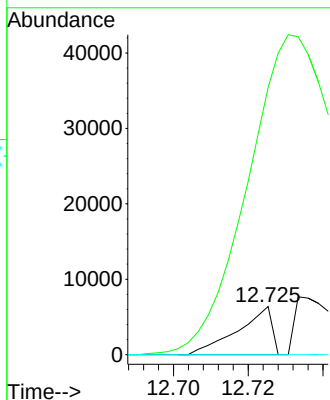
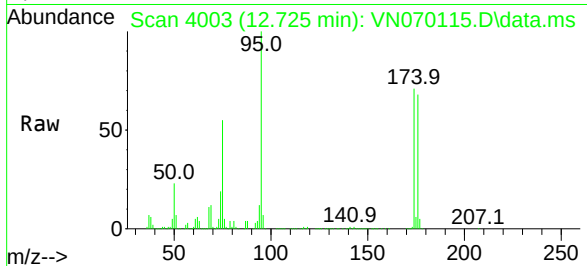




#71
Bromoform
Concen: 2.972 ug/l
RT: 12.725 min Scan# 4003
Delta R.T. 0.265 min
Lab File: VN070115.D
Acq: 15 Dec 2021 16:44

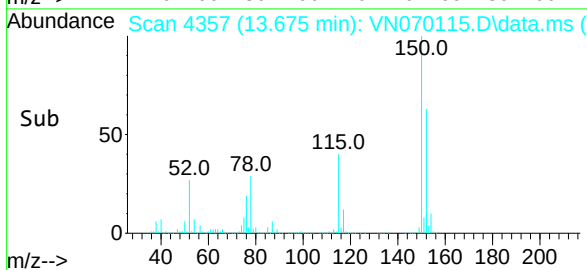
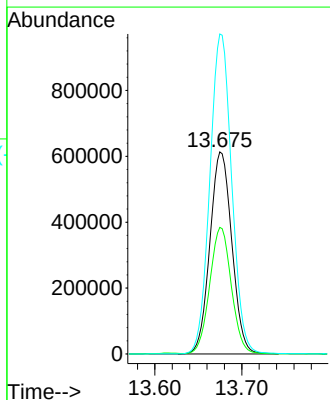
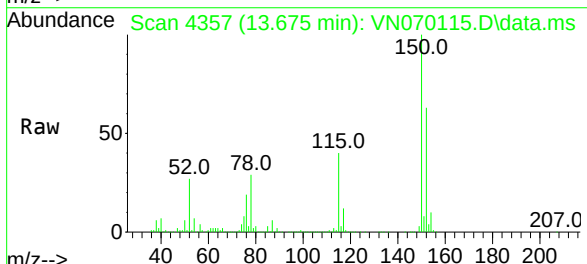
Instrument :
MSVOA_N
ClientSampleId :

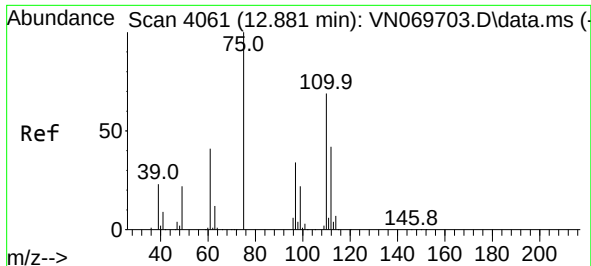
Tgt Ion:173 Resp: 4022
Ion Ratio Lower Upper
173 100
175 0.0 24.2 72.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.675 min Scan# 4357
Delta R.T. -0.003 min
Lab File: VN070115.D
Acq: 15 Dec 2021 16:44

Tgt Ion:152 Resp: 1076449
Ion Ratio Lower Upper
152 100
115 61.5 27.5 82.5
150 157.7 0.0 344.4

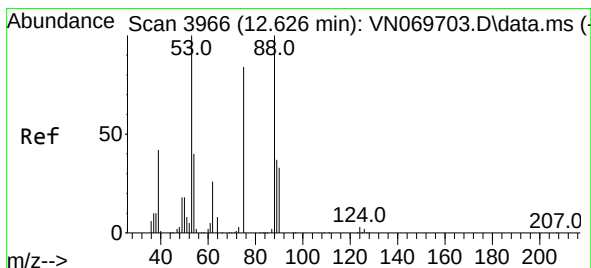
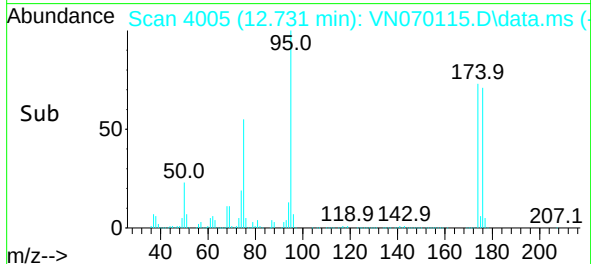
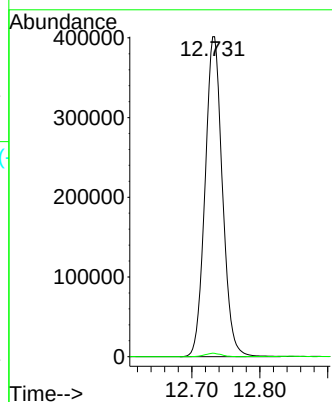
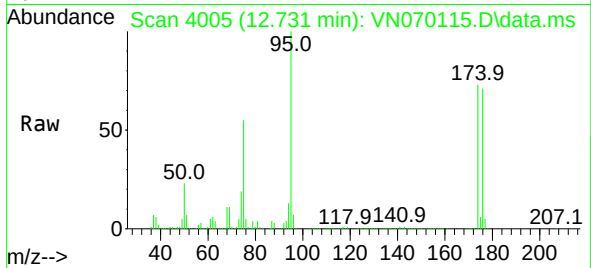




#76
1,2,3-Trichloropropane
Concen: 23.050 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.150 min
Lab File: VN070115.D
Acq: 15 Dec 2021 16:44

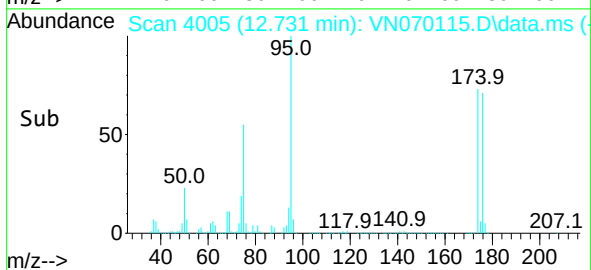
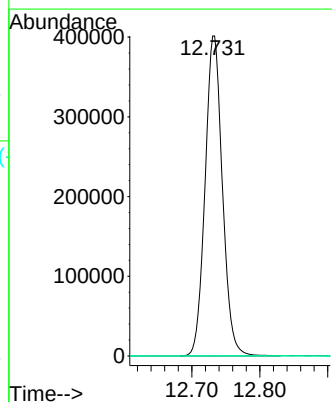
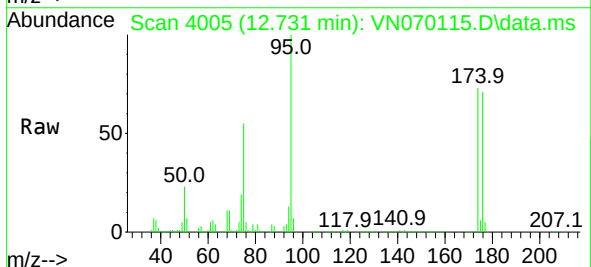
Instrument :
MSVOA_N
ClientSampleId :

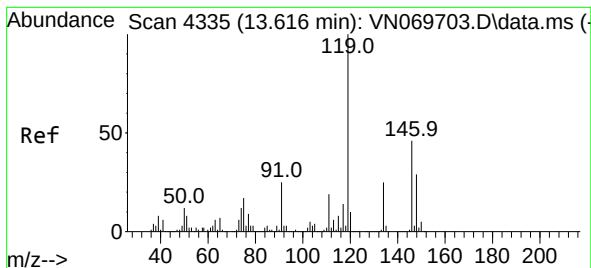
Tgt Ion: 75 Resp: 711542
Ion Ratio Lower Upper
75 100
77 1.0 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 73.372 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.105 min
Lab File: VN070115.D
Acq: 15 Dec 2021 16:44

Tgt Ion: 75 Resp: 711542
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#





#86

p-Isopropyltoluene

Concen: 0.802 ug/l

RT: 13.616 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN070115.D

Acq: 15 Dec 2021 16:44

Instrument :

MSVOA_N

ClientSampleId :

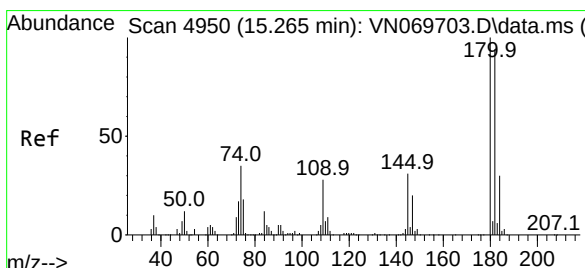
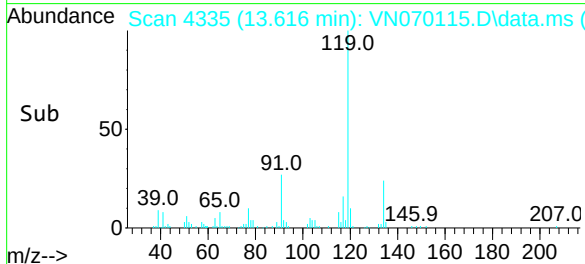
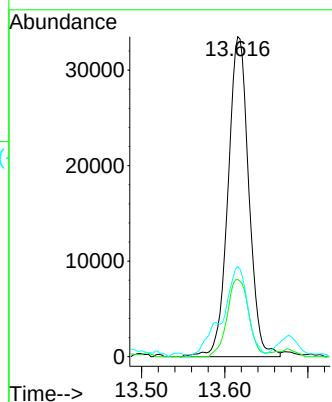
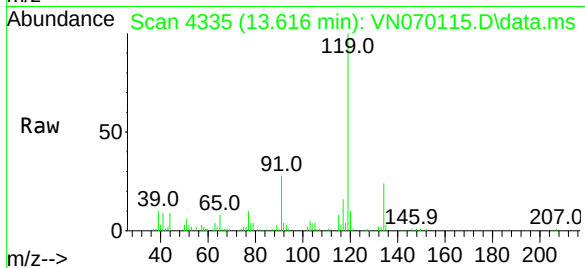
Tgt Ion:119 Resp: 58069

Ion Ratio Lower Upper

119 100

134 25.2 13.6 40.7

91 26.5 11.4 34.1



#93

1,2,4-Trichlorobenzene

Concen: 2.937 ug/l

RT: 15.265 min Scan# 4950

Delta R.T. 0.000 min

Lab File: VN070115.D

Acq: 15 Dec 2021 16:44

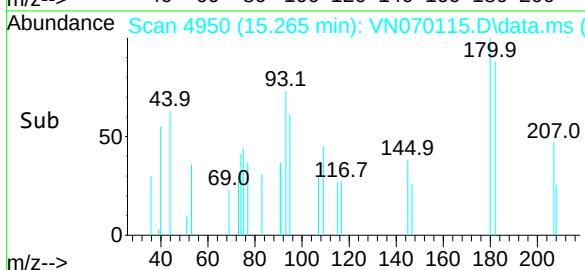
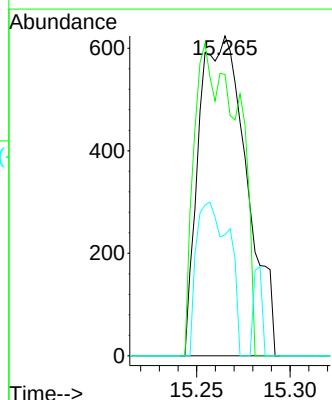
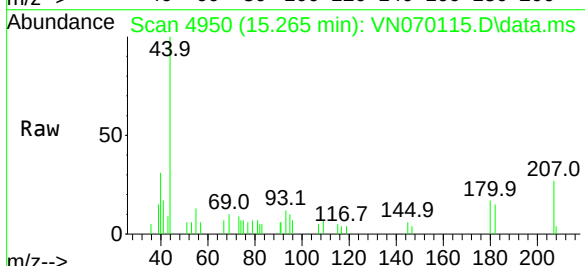
Tgt Ion:180 Resp: 1107

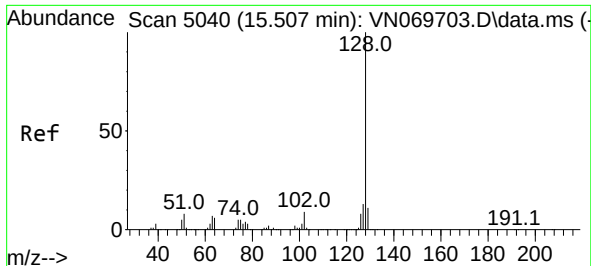
Ion Ratio Lower Upper

180 100

182 42.8 48.3 144.9#

145 32.6 14.5 43.5

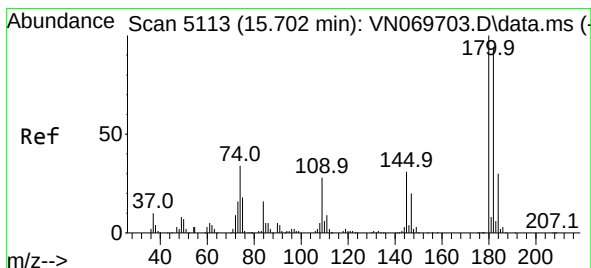
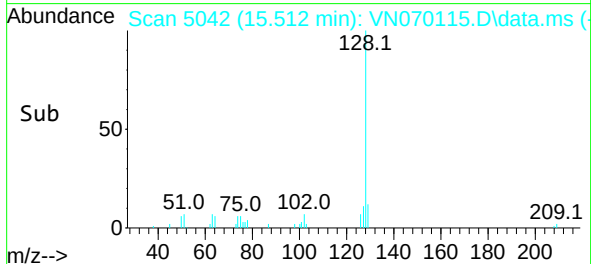
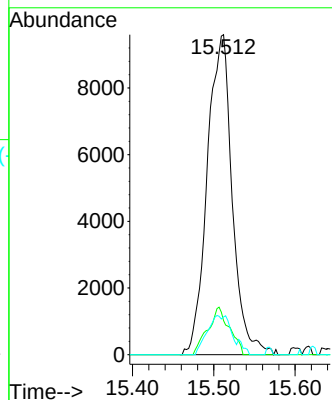
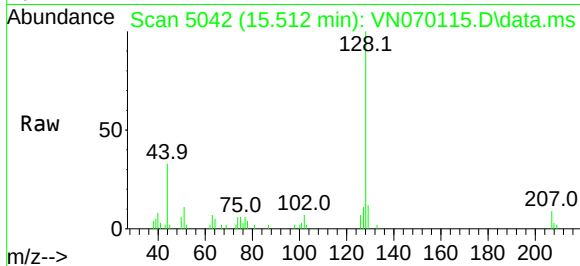




#95
Naphthalene
Concen: 4.344 ug/l
RT: 15.512 min Scan# 5040
Delta R.T. 0.005 min
Lab File: VN070115.D
Acq: 15 Dec 2021 16:44

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 20509
Ion Ratio Lower Upper
128 100
127 12.9 10.5 15.7
129 7.1 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 2.472 ug/l
RT: 15.708 min Scan# 5115
Delta R.T. 0.006 min
Lab File: VN070115.D
Acq: 15 Dec 2021 16:44

Tgt Ion:180 Resp: 652
Ion Ratio Lower Upper
180 100
182 102.8 47.4 142.2
145 44.3 15.0 45.1

