

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112221\
 Data File : VN069606.D
 Acq On : 22 Nov 2021 13:39
 Operator : JC/MD
 Sample : M4692-02 5X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 23 03:50:58 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111021W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Nov 10 14:36:17 2021
 Response via : Initial Calibration

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

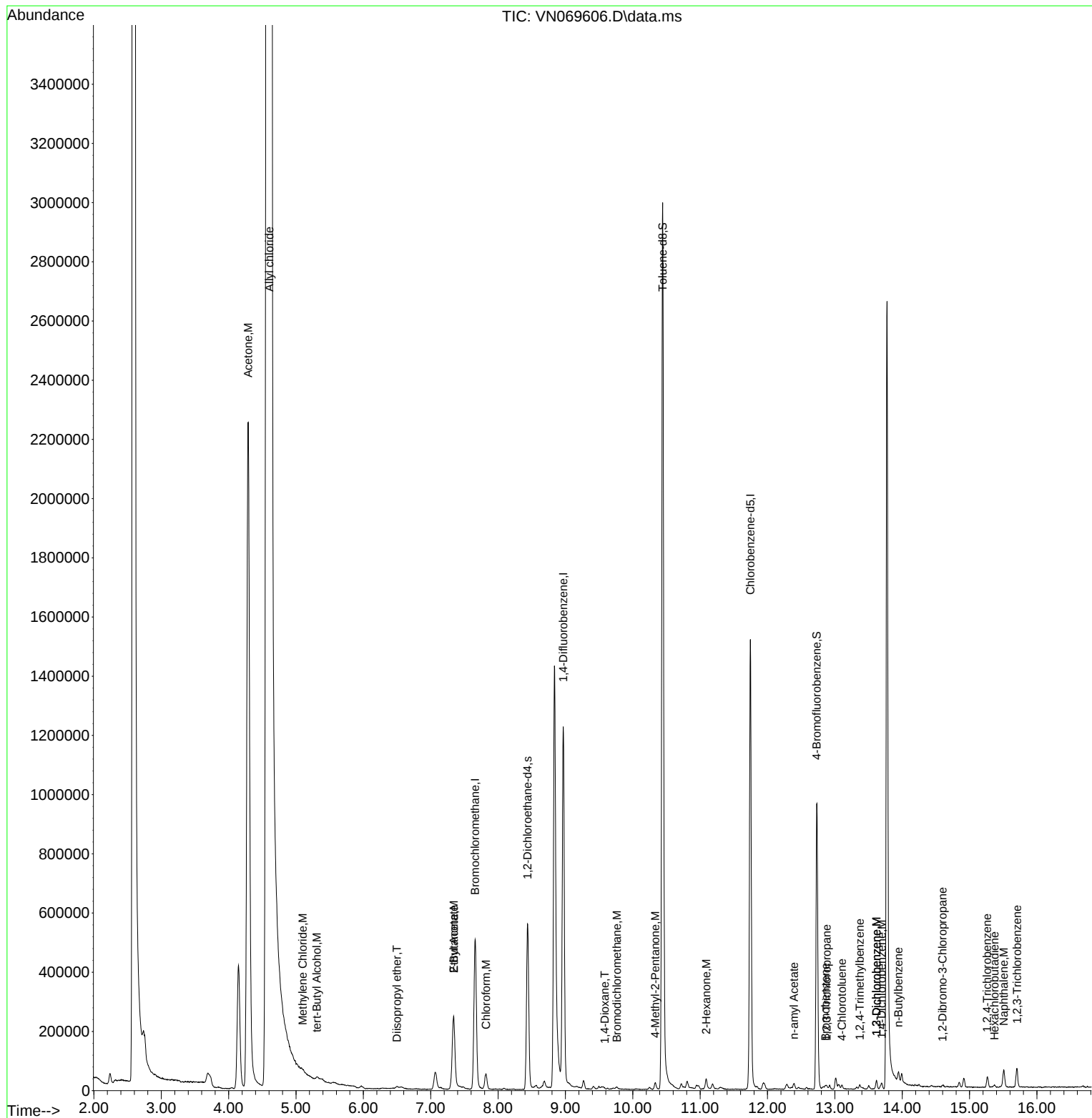
Internal Standards						
1) Bromochloromethane	7.659	128	177527	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	1026918	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.746	117	850868	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.437	65	480735	31.224	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	104.067%
60) 4-Bromofluorobenzene	12.731	95	345866	25.401	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	84.667%
63) Toluene-d8	10.443	98	1241805	31.609	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	105.367%
Target Compounds						
					Qvalue	
15) Acetone	4.291	58	1151606	495.812	ug/l	75
17) Allyl chloride	4.604	41	7981389	423.285	ug/l #	79
18) Methylene Chloride	5.101	84	2872	0.254	ug/l	96
20) Diisopropyl ether	6.498	45	8673	0.215	ug/l #	66
23) tert-Butyl Alcohol	5.310	59	591	0.244	ug/l #	100
25) Chloroform	7.820	83	49122	2.318	ug/l	99
30) 2-Butanone	7.343	43	380290	33.516	ug/l #	89
41) Bromodichloromethane	9.765	83	4308	0.271	ug/l #	78
43) Ethyl Acetate	7.343	43	380290	18.085	ug/l #	71
45) 1,4-Dioxane	9.585	88	300	1.127	ug/l #	71
47) n-amyl Acetate	12.393	43	13998	0.556	ug/l #	86
58) 4-Methyl-2-Pentanone	10.336	43	17268	0.925	ug/l #	84
59) 2-Hexanone	11.089	43	26765	1.884	ug/l	96
72) 1,2,3-Trichloropropane	12.878	75	3920	0.242	ug/l	58
73) Bromobenzene	12.860	156	2591	0.223	ug/l	75
78) 4-Chlorotoluene	13.106	91	7619	0.226	ug/l	69
80) 1,2,4-Trimethylbenzene	13.369	105	8681	0.215	ug/l #	88
83) 1,3-Dichlorobenzene	13.619	146	5622	0.283	ug/l	86
84) 1,4-Dichlorobenzene	13.696	146	7257	0.377	ug/l	86
85) n-Butylbenzene	13.946	91	17474	0.516	ug/l	96
87) 1,2-Dichlorobenzene	13.619	146	5622	0.294	ug/l	87
88) 1,2-Dibromo-3-Chloropr...	14.597	75	728	0.250	ug/l #	22
89) 1,2,4-Trichlorobenzene	15.263	180	11383	1.240	ug/l	93
90) Hexachlorobutadiene	15.370	225	1161	0.234	ug/l	79
91) Naphthalene	15.507	128	51719	1.956	ug/l	98
92) 1,2,3-Trichlorobenzene	15.705	180	14027	1.554	ug/l	84

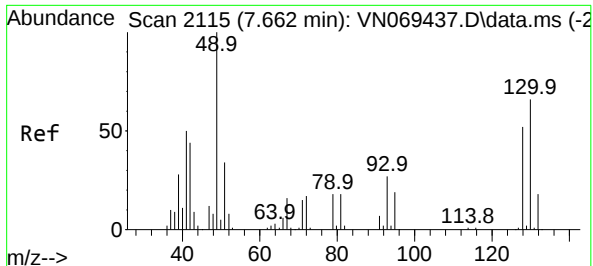
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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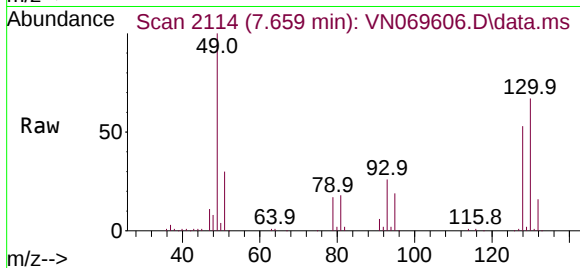
Quant Time: Nov 23 03:50:58 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111021W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Nov 10 14:36:17 2021
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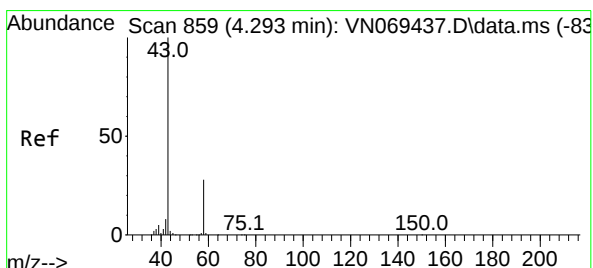
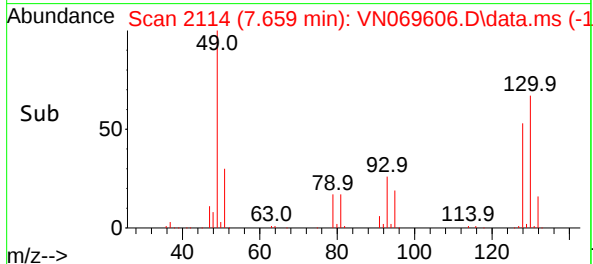
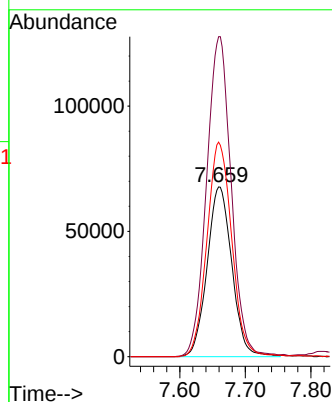


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.659 min Scan# 2114
Delta R.T. -0.003 min
Lab File: VN069606.D
Acq: 22 Nov 2021 13:39

Instrument :
MSVOA_N
ClientSampleId :

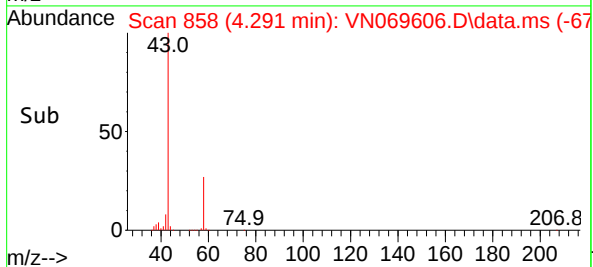
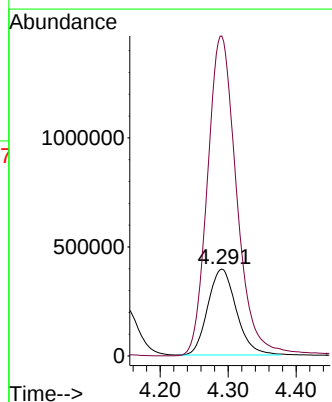
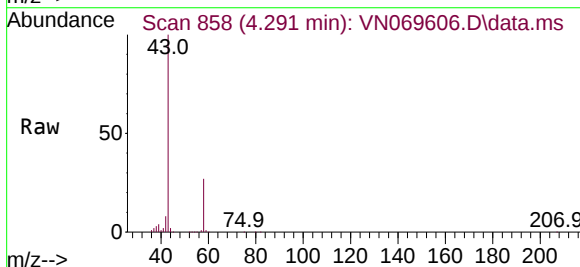


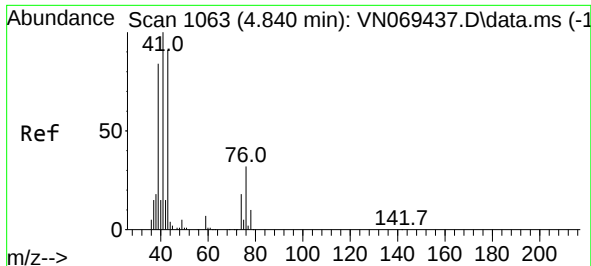
Tgt Ion:128 Resp: 177527
Ion Ratio Lower Upper
128 100
49 187.3 0.0 392.3
130 126.3 0.0 320.2



#15
Acetone
Concen: 495.812 ug/l
RT: 4.291 min Scan# 858
Delta R.T. 0.003 min
Lab File: VN069606.D
Acq: 22 Nov 2021 13:39

Tgt Ion: 58 Resp: 1151606
Ion Ratio Lower Upper
58 100
43 371.5 256.6 384.8





#17

Allyl chloride

Concen: 423.285 ug/l

RT: 4.604 min Scan# 91

Delta R.T. -0.241 min

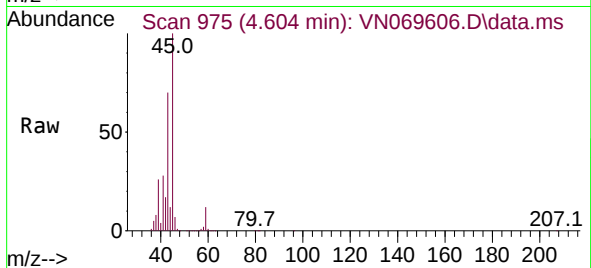
Lab File: VN069606.D

Acq: 22 Nov 2021 13:39

Instrument :

MSVOA_N

ClientSampleId :



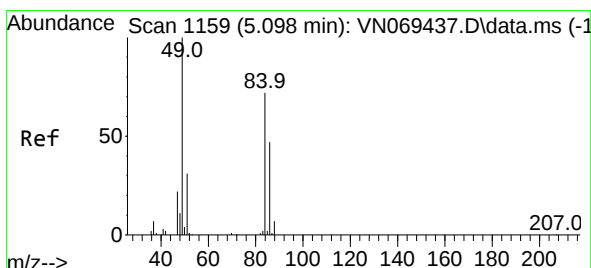
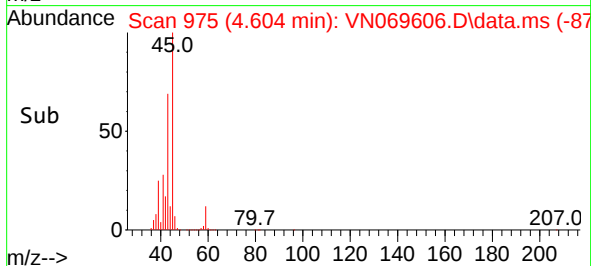
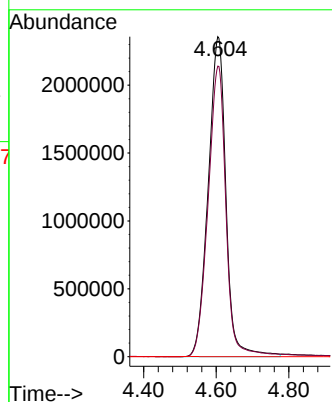
Tgt Ion: 41 Resp: 7981389

Ion Ratio Lower Upper

41 100

39 90.8 44.6 134.0

76 0.0 19.6 58.7#



#18

Methylene Chloride

Concen: 0.254 ug/l

RT: 5.101 min Scan# 1160

Delta R.T. 0.000 min

Lab File: VN069606.D

Acq: 22 Nov 2021 13:39

Tgt Ion: 84 Resp: 2872

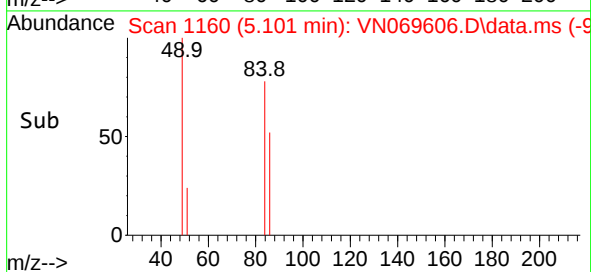
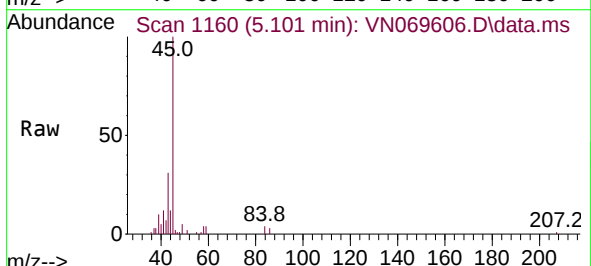
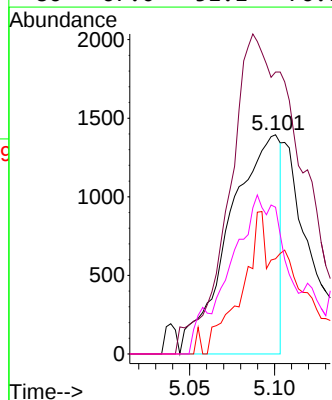
Ion Ratio Lower Upper

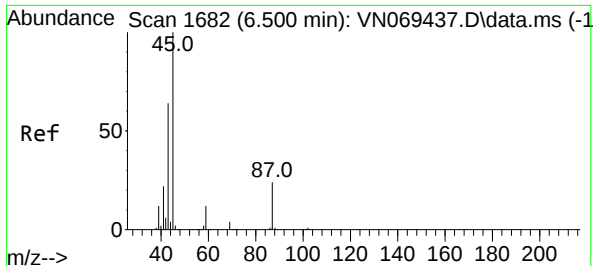
84 100

49 116.3 91.4 137.0

51 43.4 29.4 44.0

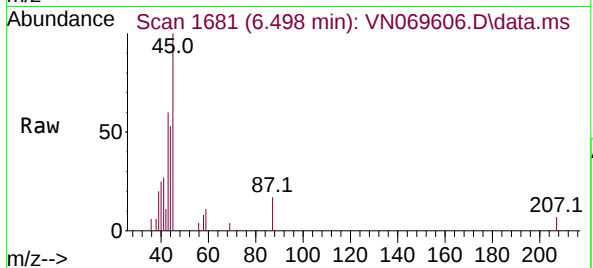
86 67.0 51.1 76.7



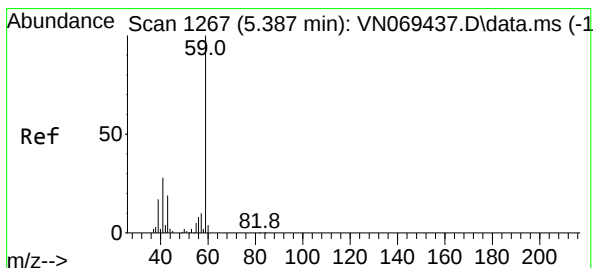
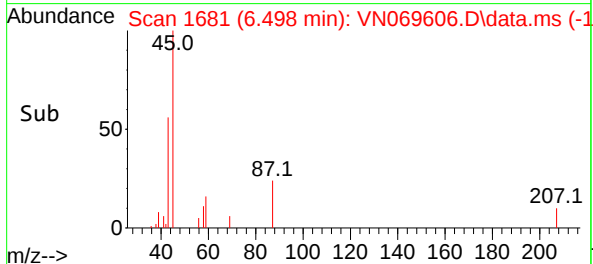
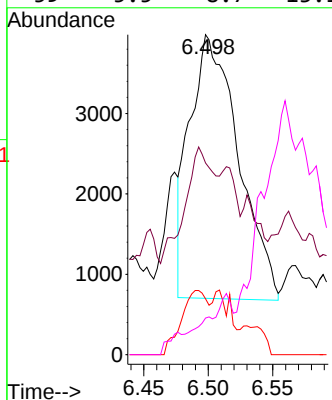


#20
Diisopropyl ether
Concen: 0.215 ug/l
RT: 6.498 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VN069606.D
Acq: 22 Nov 2021 13:39

Instrument :
MSVOA_N
ClientSampleId :

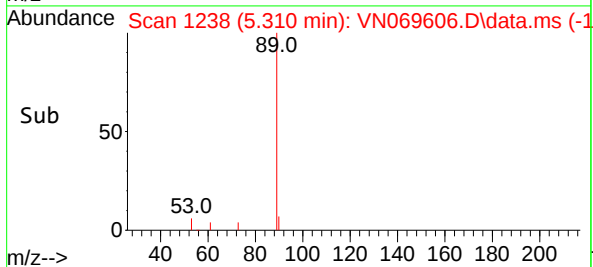
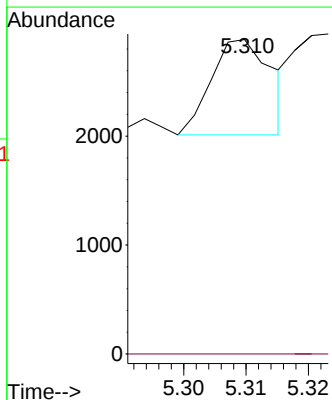
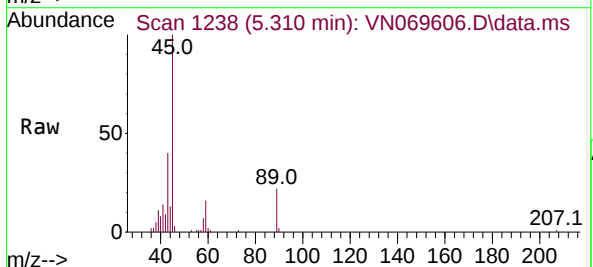


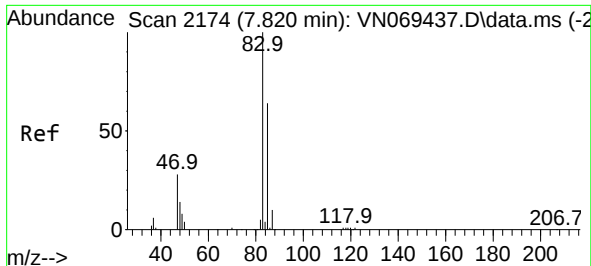
Tgt Ion	Ratio	Lower	Upper
45	100		
43	27.8	51.0	76.4#
87	21.6	25.0	37.4#
59	5.5	8.7	13.1#



#23
tert-Butyl Alcohol
Concen: 0.244 ug/l
RT: 5.310 min Scan# 1238
Delta R.T. -0.056 min
Lab File: VN069606.D
Acq: 22 Nov 2021 13:39

Tgt Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0





#25

Chloroform

Concen: 2.318 ug/l

RT: 7.820 min Scan# 2174

Delta R.T. 0.000 min

Lab File: VN069606.D

Acq: 22 Nov 2021 13:39

Instrument :

MSVOA_N

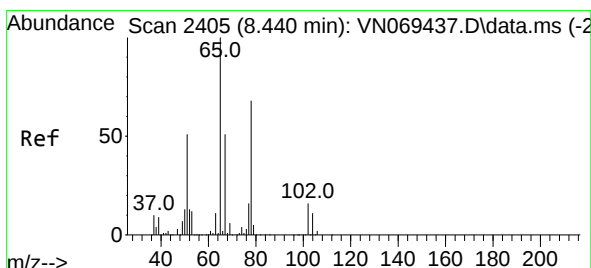
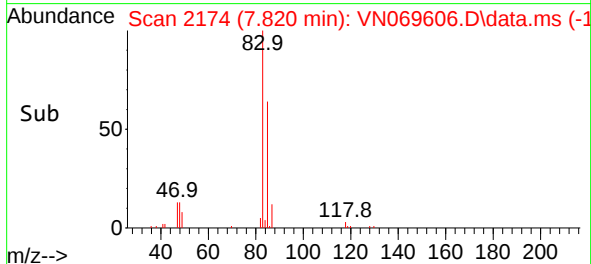
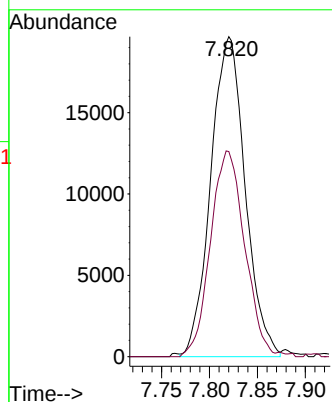
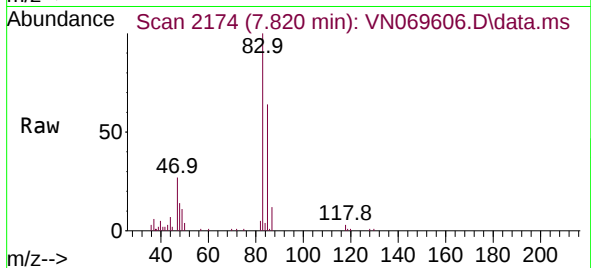
ClientSampleId :

Tgt Ion: 83 Resp: 49122

Ion Ratio Lower Upper

83 100

85 64.6 51.3 76.9



#27

1,2-Dichloroethane-d4

Concen: 31.224 ug/l

RT: 8.437 min Scan# 2404

Delta R.T. -0.003 min

Lab File: VN069606.D

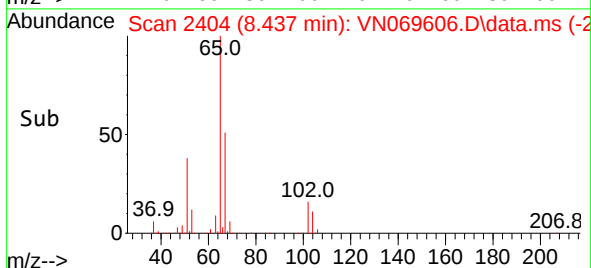
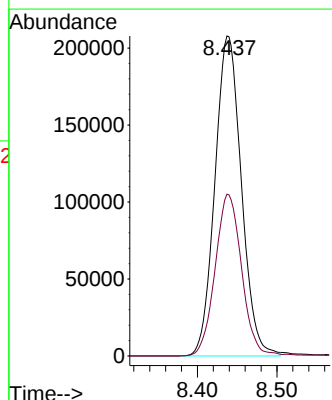
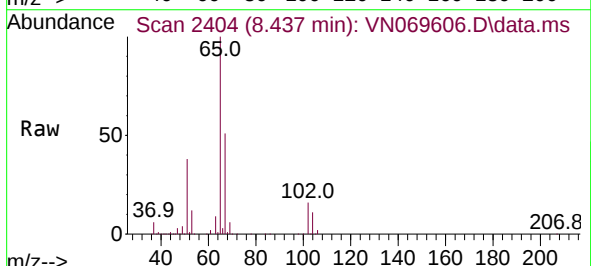
Acq: 22 Nov 2021 13:39

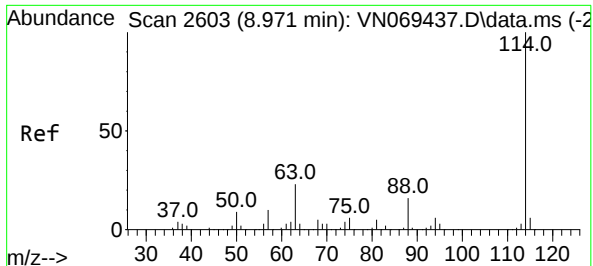
Tgt Ion: 65 Resp: 480735

Ion Ratio Lower Upper

65 100

67 50.4 40.2 60.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.968 min Scan# 2

Delta R.T. -0.003 min

Lab File: VN069606.D

Acq: 22 Nov 2021 13:39

Instrument :

MSVOA_N

ClientSampleId :

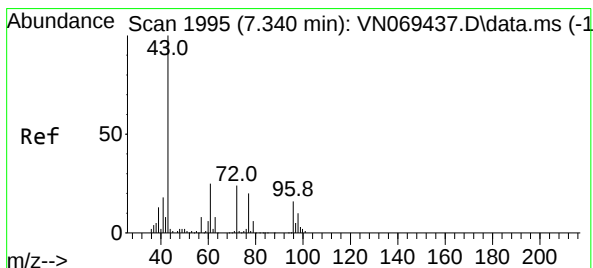
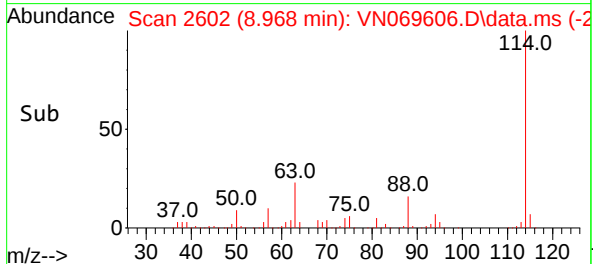
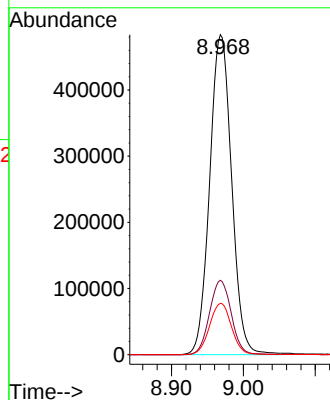
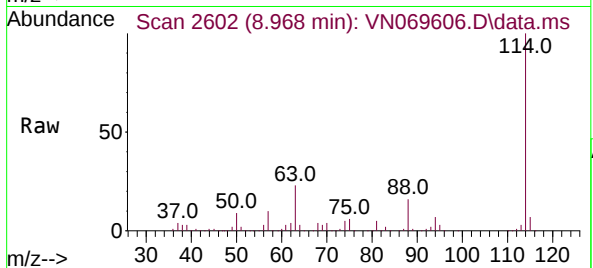
Tgt Ion:114 Resp: 1026918

Ion Ratio Lower Upper

114 100

63 22.9 15.8 23.6

88 16.0 11.6 17.4



#30

2-Butanone

Concen: 33.516 ug/l

RT: 7.343 min Scan# 1996

Delta R.T. 0.005 min

Lab File: VN069606.D

Acq: 22 Nov 2021 13:39

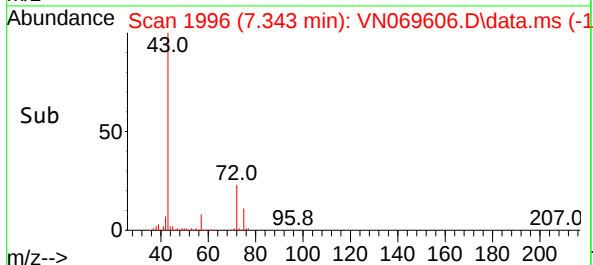
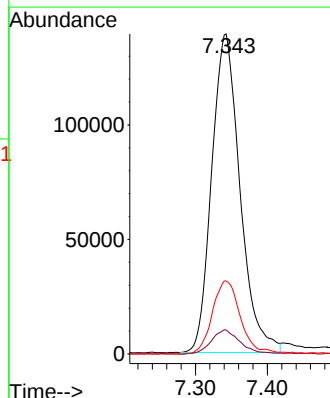
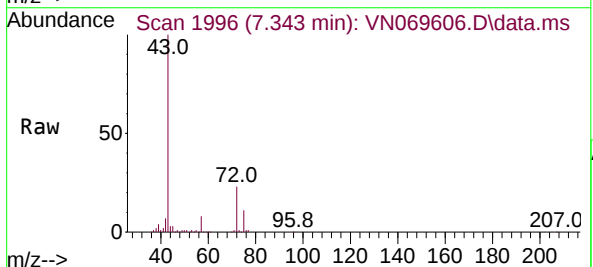
Tgt Ion: 43 Resp: 380290

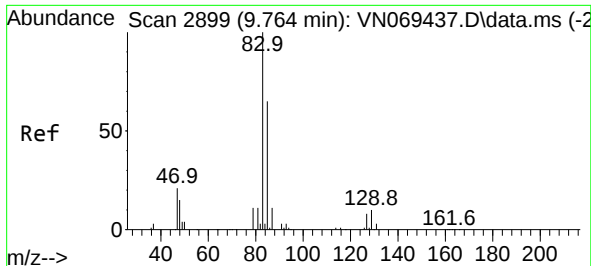
Ion Ratio Lower Upper

43 100

57 7.6 6.7 10.1

72 22.1 23.2 34.8#

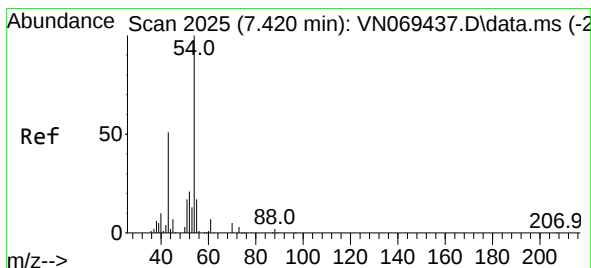
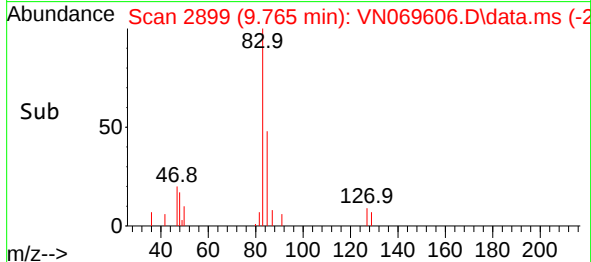
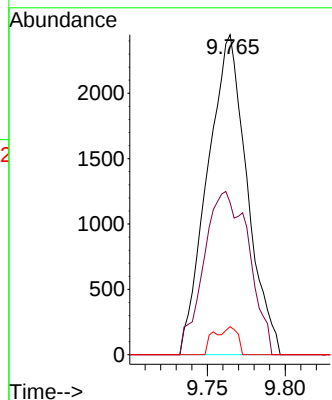
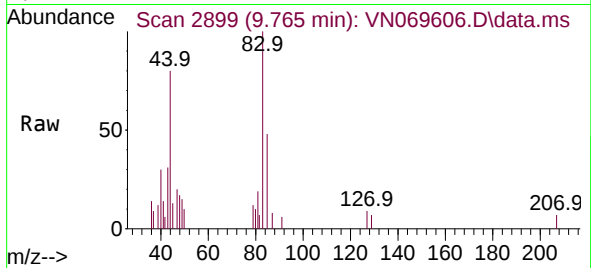




#41
Bromodichloromethane
Concen: 0.271 ug/l
RT: 9.765 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN069606.D
Acq: 22 Nov 2021 13:39

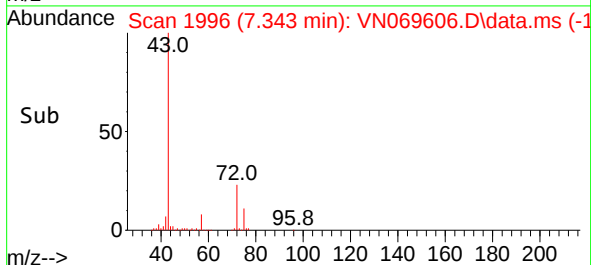
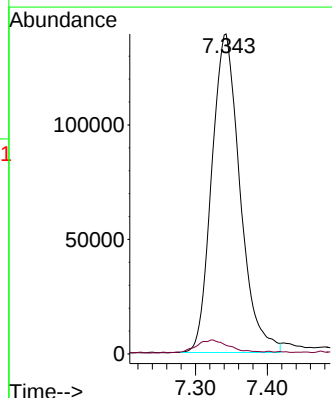
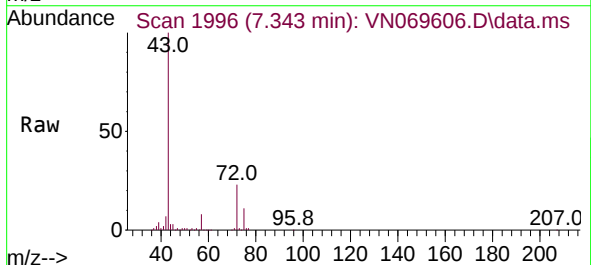
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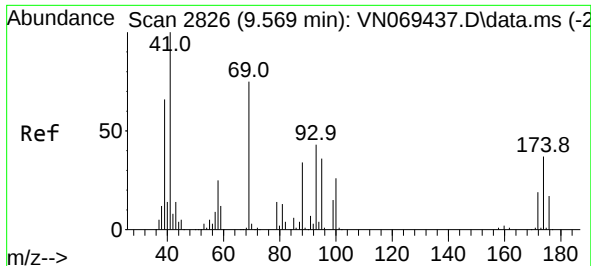
Tgt Ion: 83 Resp: 4308
Ion Ratio Lower Upper
83 100
85 47.5 54.1 81.1#
127 8.8 7.6 11.4



#43
Ethyl Acetate
Concen: 18.085 ug/l
RT: 7.343 min Scan# 1996
Delta R.T. -0.070 min
Lab File: VN069606.D
Acq: 22 Nov 2021 13:39

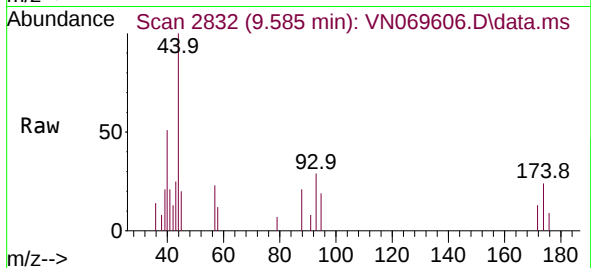
Tgt Ion: 43 Resp: 380290
Ion Ratio Lower Upper
43 100
45 1.7 10.6 16.0#



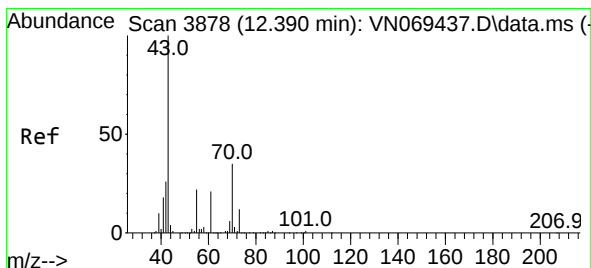
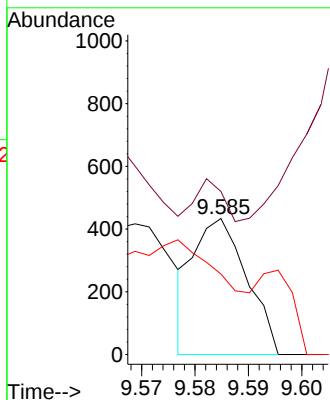
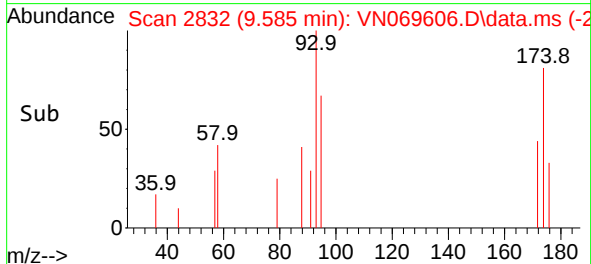


#45
1,4-Dioxane
Concen: 1.127 ug/l
RT: 9.585 min Scan# 21
Delta R.T. 0.016 min
Lab File: VN069606.D
Acq: 22 Nov 2021 13:39

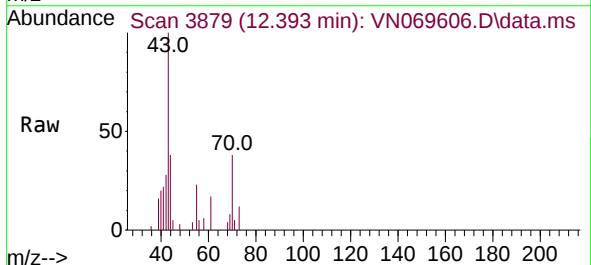
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MSVOA_N
ClientSampleId :



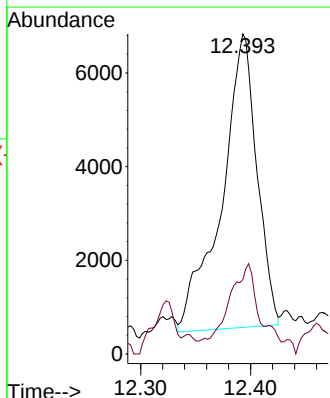
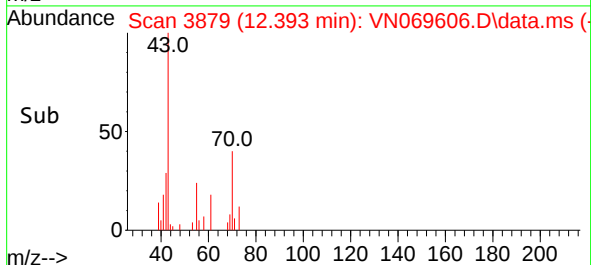
Tgt Ion: 88 Resp: 300
Ion Ratio Lower Upper
88 100
43 15.7 25.0 37.6#
58 39.0 49.4 74.2#

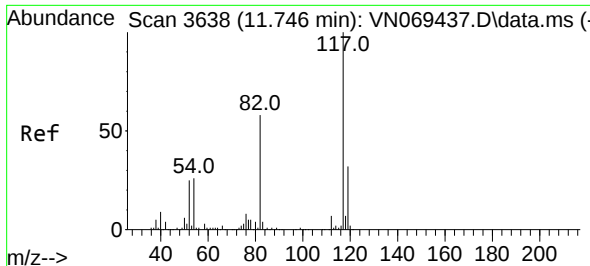


#47
n-amy1 Acetate
Concen: 0.556 ug/l
RT: 12.393 min Scan# 3879
Delta R.T. 0.003 min
Lab File: VN069606.D
Acq: 22 Nov 2021 13:39



Tgt Ion: 43 Resp: 13998
Ion Ratio Lower Upper
43 100
55 17.0 19.0 28.6#

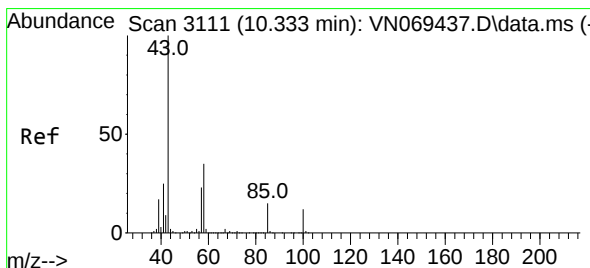
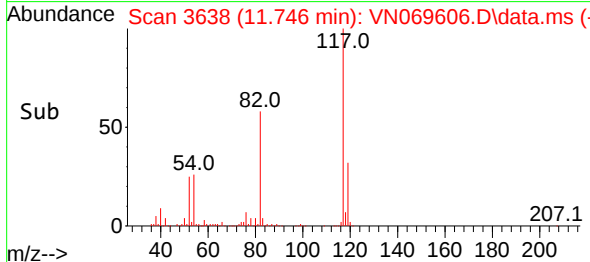
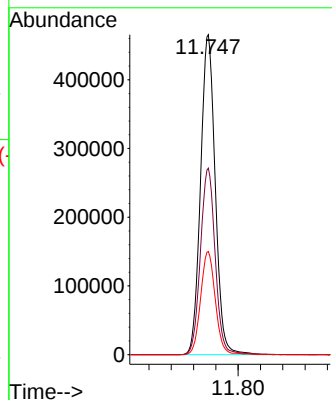
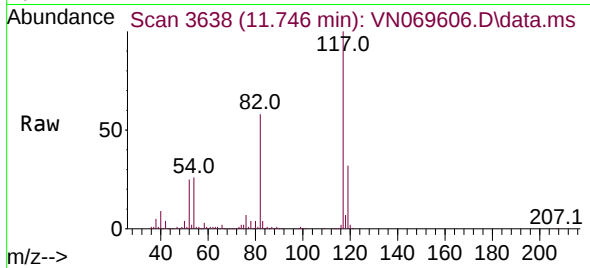




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.746 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN069606.D
Acq: 22 Nov 2021 13:39

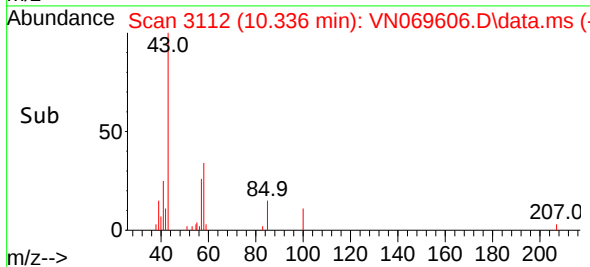
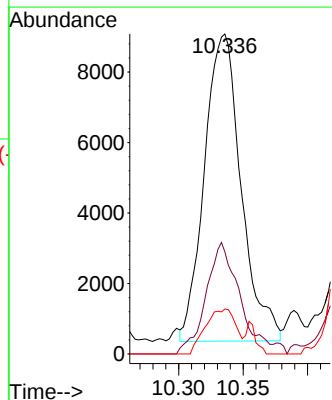
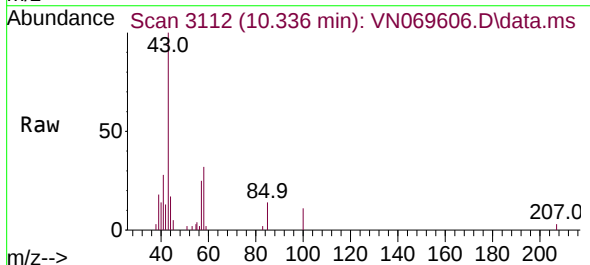
Instrument :
MSVOA_N
ClientSampleId :

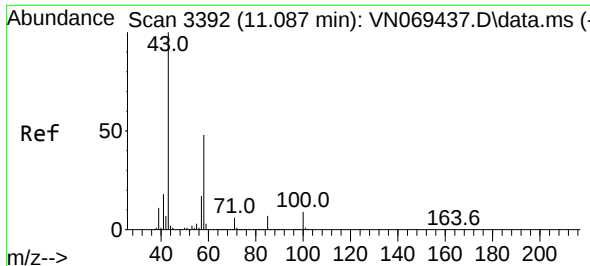
Tgt Ion:117 Resp: 850868
Ion Ratio Lower Upper
117 100
82 58.6 43.6 65.4
119 32.1 25.8 38.6



#58
4-Methyl-2-Pentanone
Concen: 0.925 ug/l
RT: 10.336 min Scan# 3112
Delta R.T. 0.005 min
Lab File: VN069606.D
Acq: 22 Nov 2021 13:39

Tgt Ion: 43 Resp: 17268
Ion Ratio Lower Upper
43 100
58 31.4 30.0 45.0
85 6.9 15.0 22.6#

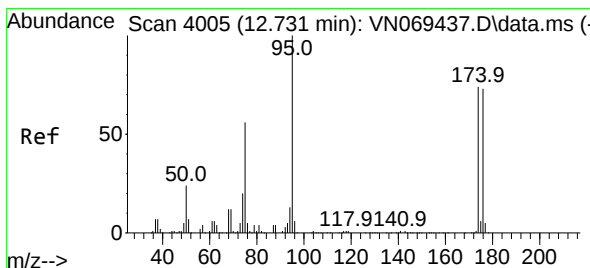
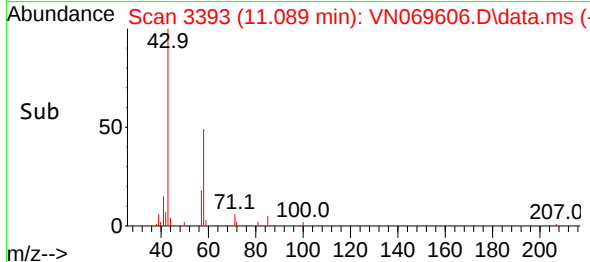
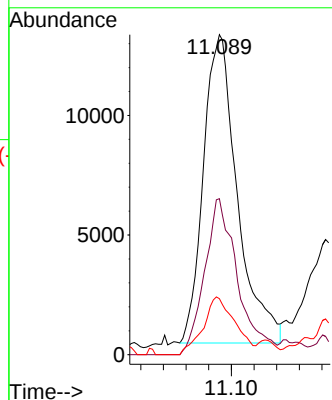
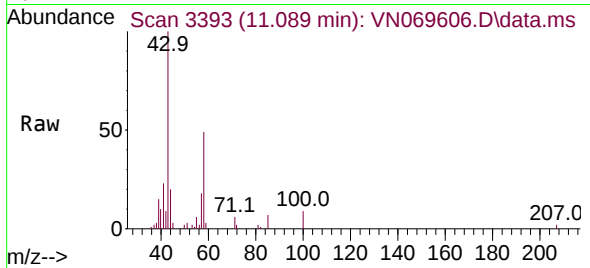




#59
2-Hexanone
Concen: 1.884 ug/l
RT: 11.089 min Scan# 31
Delta R.T. 0.003 min
Lab File: VN069606.D
Acq: 22 Nov 2021 13:39

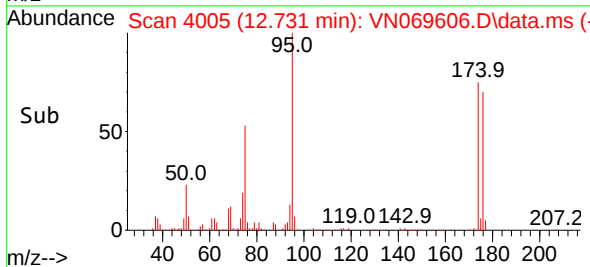
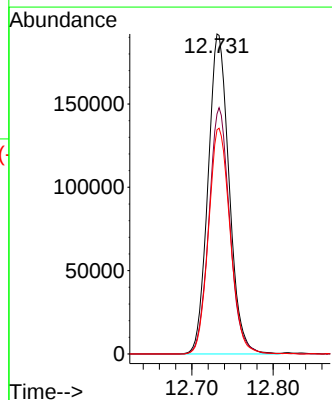
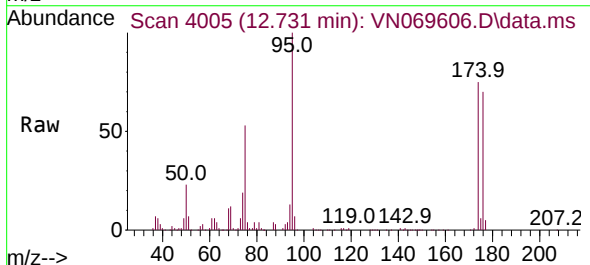
Instrument :
MSVOA_N
ClientSampleId :

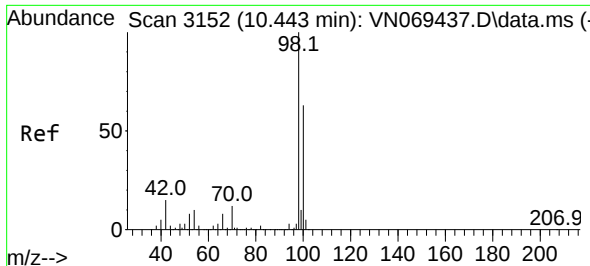
Tgt Ion: 43 Resp: 26765
Ion Ratio Lower Upper
43 100
58 49.2 42.2 63.2
57 17.7 15.0 22.4



#60
4-Bromofluorobenzene
Concen: 25.401 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.003 min
Lab File: VN069606.D
Acq: 22 Nov 2021 13:39

Tgt Ion: 95 Resp: 345866
Ion Ratio Lower Upper
95 100
174 76.4 62.9 94.3
176 72.3 61.0 91.4

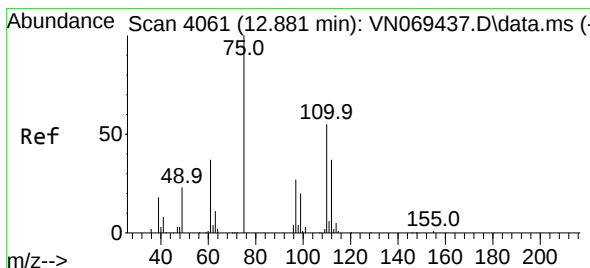
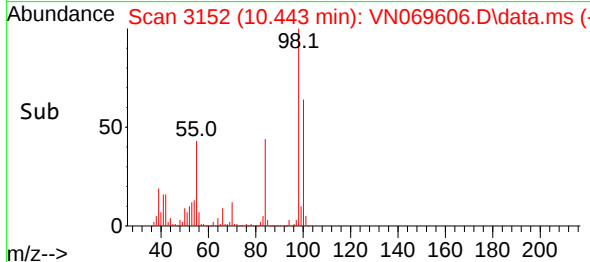
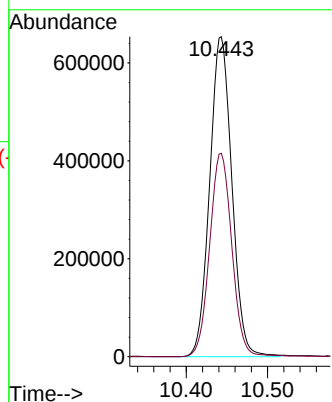
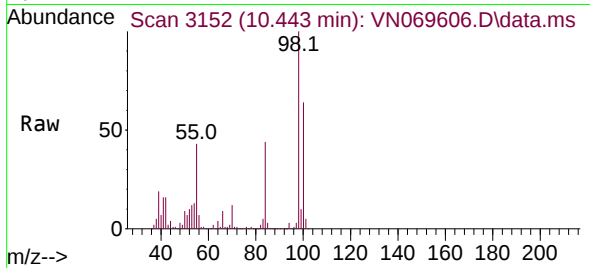




#63
Toluene-d8
Concen: 31.609 ug/l
RT: 10.443 min Scan# 31
Delta R.T. 0.000 min
Lab File: VN069606.D
Acq: 22 Nov 2021 13:39

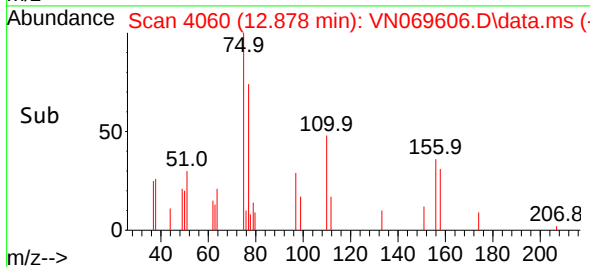
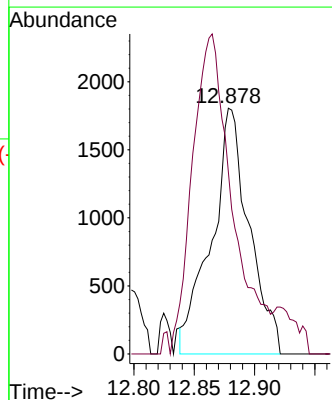
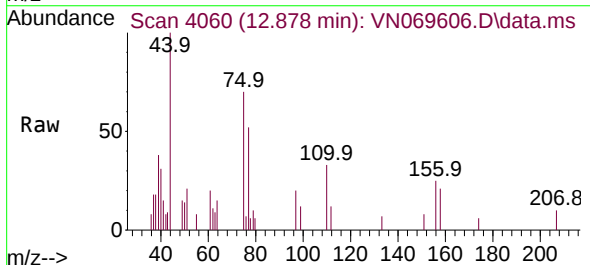
Instrument :
MSVOA_N
ClientSampleId :

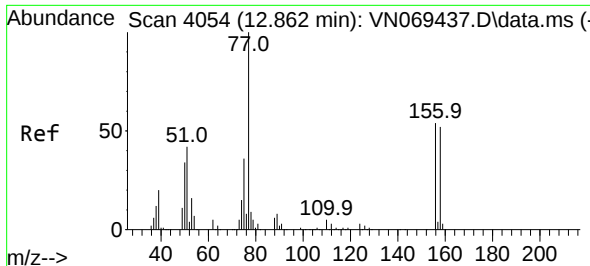
Tgt Ion: 98 Resp: 1241805
Ion Ratio Lower Upper
98 100
100 63.3 50.6 76.0



#72
1,2,3-Trichloropropane
Concen: 0.242 ug/l
RT: 12.878 min Scan# 4060
Delta R.T. -0.003 min
Lab File: VN069606.D
Acq: 22 Nov 2021 13:39

Tgt Ion: 75 Resp: 3920
Ion Ratio Lower Upper
75 100
77 128.0 0.0 378.0

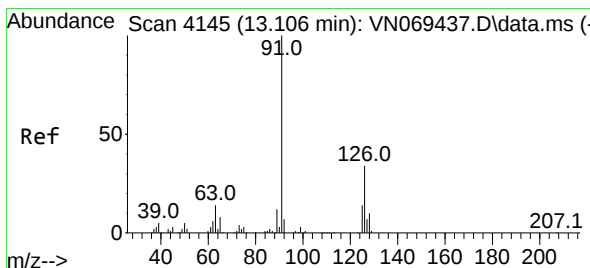
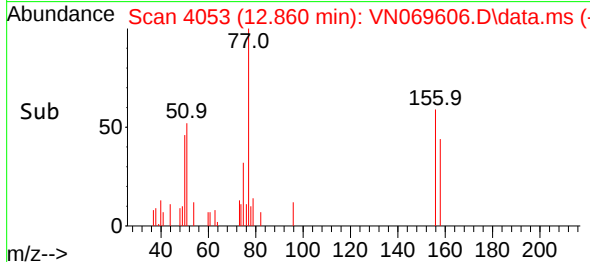
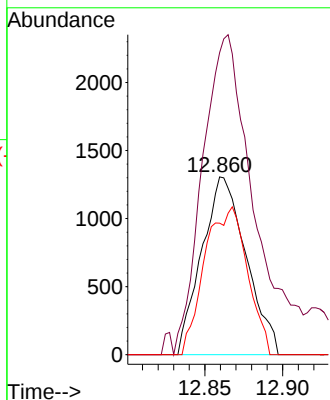
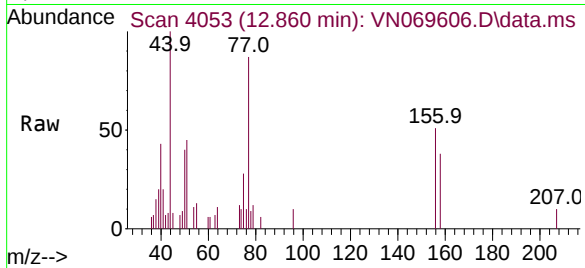




#73
Bromobenzene
Concen: 0.223 ug/l
RT: 12.860 min Scan# 4054
Delta R.T. -0.003 min
Lab File: VN069606.D
Acq: 22 Nov 2021 13:39

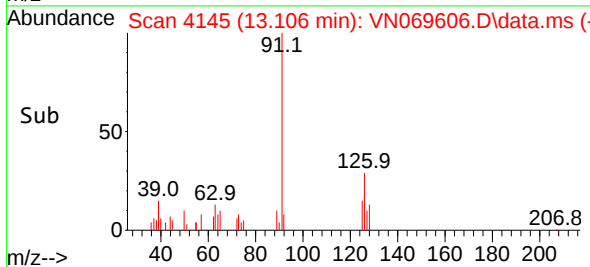
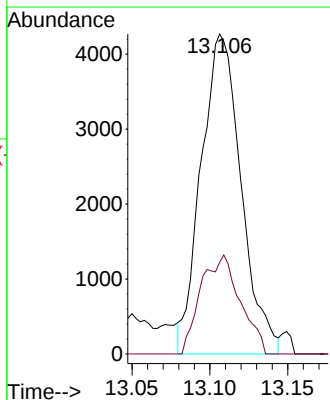
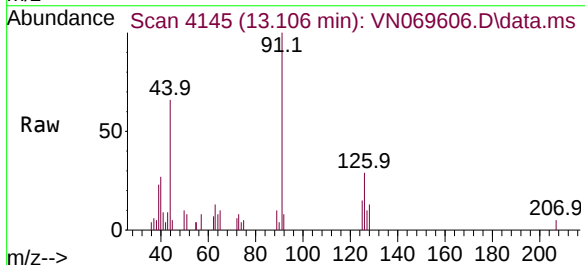
Instrument :
MSVOA_N
ClientSampleId :

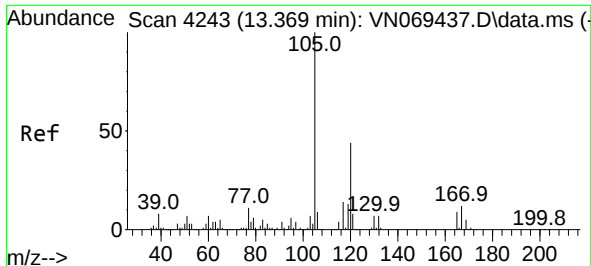
Tgt Ion	Ratio	Lower	Upper
156	100		
77	193.7	0.0	416.0
158	39.9	0.0	195.4



#78
4-Chlorotoluene
Concen: 0.226 ug/l
RT: 13.106 min Scan# 4145
Delta R.T. 0.000 min
Lab File: VN069606.D
Acq: 22 Nov 2021 13:39

Tgt Ion	Ratio	Lower	Upper
91	100		
126	17.3	0.0	70.6

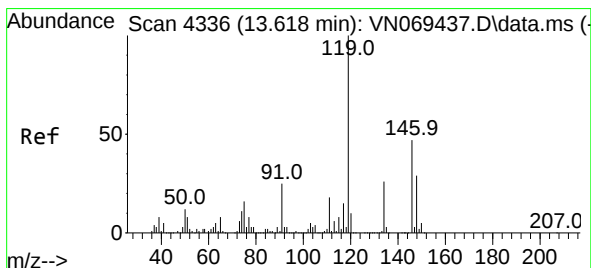
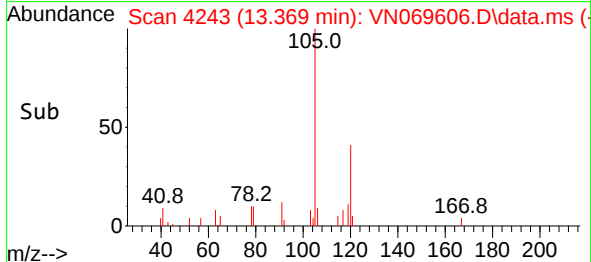
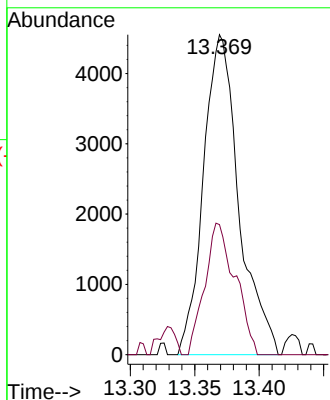
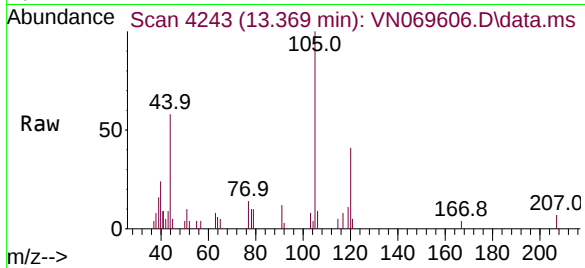




#80
1,2,4-Trimethylbenzene
Concen: 0.215 ug/l
RT: 13.369 min Scan# 4243
Delta R.T. 0.000 min
Lab File: VN069606.D
Acq: 22 Nov 2021 13:39

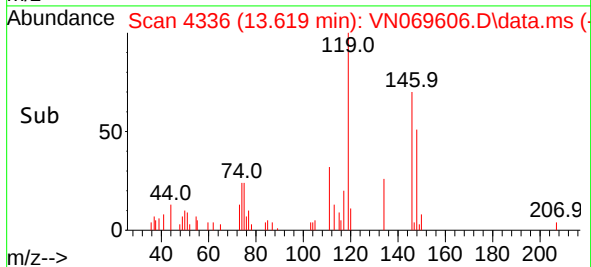
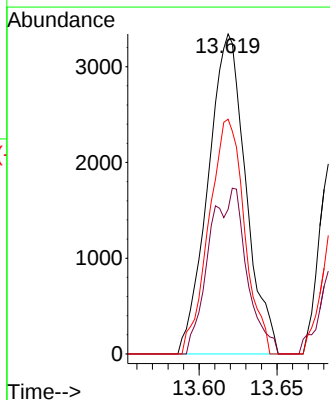
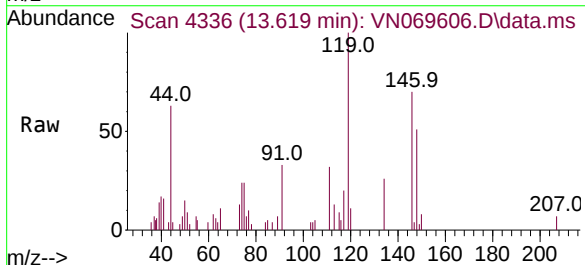
Instrument :
MSVOA_N
ClientSampleId :

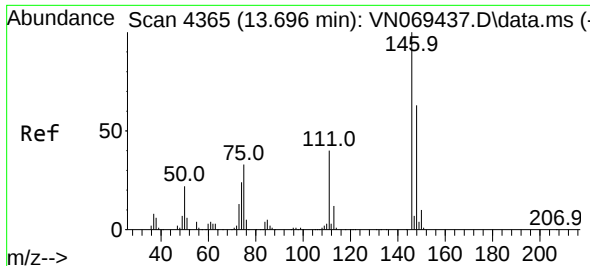
Tgt Ion:105 Resp: 8681
Ion Ratio Lower Upper
105 100
120 28.3 0.0 0.2#



#83
1,3-Dichlorobenzene
Concen: 0.283 ug/l
RT: 13.619 min Scan# 4336
Delta R.T. 0.000 min
Lab File: VN069606.D
Acq: 22 Nov 2021 13:39

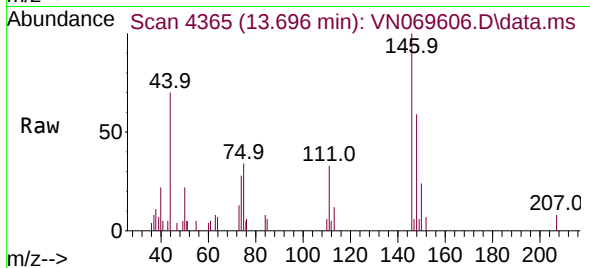
Tgt Ion:146 Resp: 5622
Ion Ratio Lower Upper
146 100
111 27.9 20.8 62.2
148 69.3 31.4 94.3



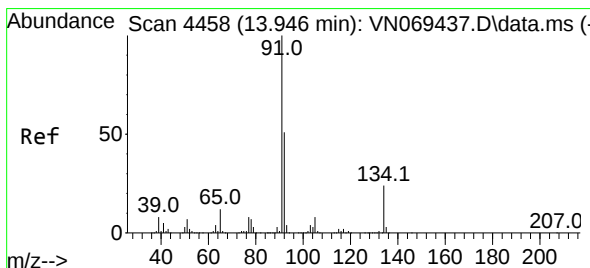
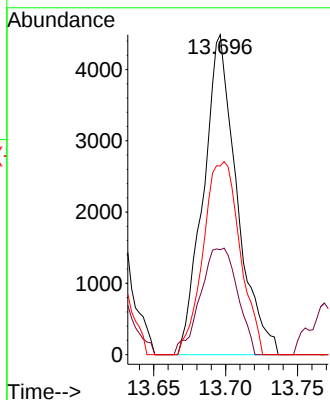
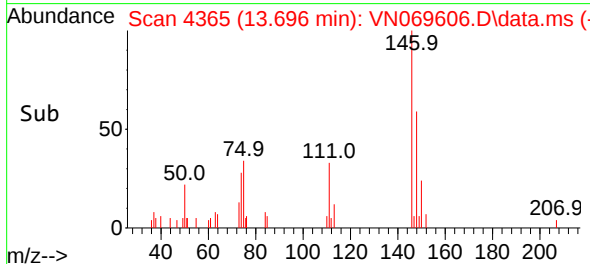


#84
1,4-Dichlorobenzene
Concen: 0.377 ug/l
RT: 13.696 min Scan# 4365
Delta R.T. 0.000 min
Lab File: VN069606.D
Acq: 22 Nov 2021 13:39

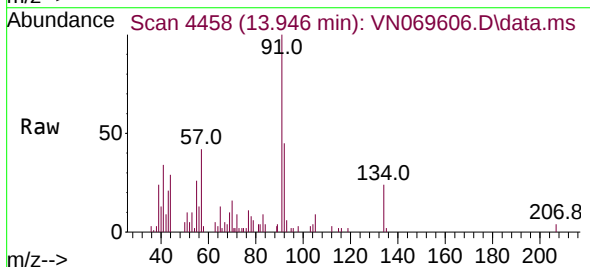
Instrument :
MSVOA_N
ClientSampleId :



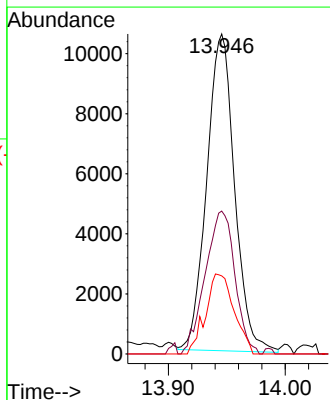
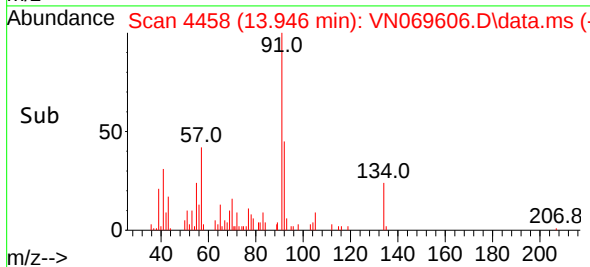
Tgt Ion:146 Resp: 7257
Ion Ratio Lower Upper
146 100
111 21.3 19.5 58.5
148 66.4 31.1 93.5

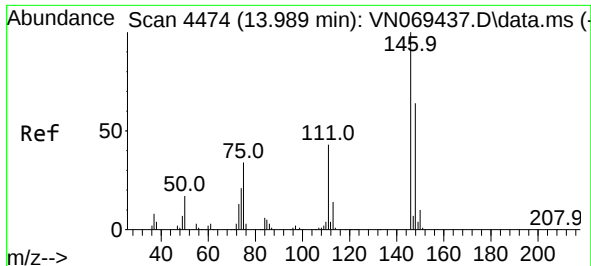


#85
n-Butylbenzene
Concen: 0.516 ug/l
RT: 13.946 min Scan# 4458
Delta R.T. 0.003 min
Lab File: VN069606.D
Acq: 22 Nov 2021 13:39



Tgt Ion: 91 Resp: 17474
Ion Ratio Lower Upper
91 100
92 48.0 0.0 100.6
134 22.7 0.0 50.2





#87

1,2-Dichlorobenzene

Concen: 0.294 ug/l

RT: 13.619 min Scan# 41

Delta R.T. -0.373 min

Lab File: VN069606.D

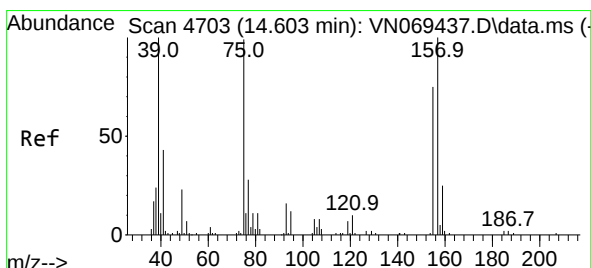
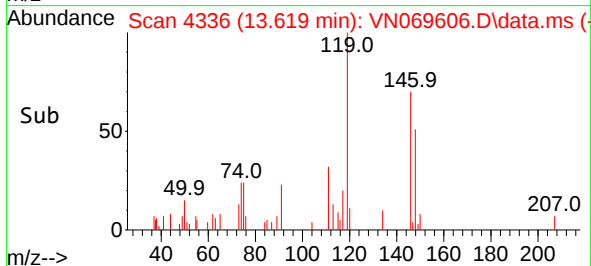
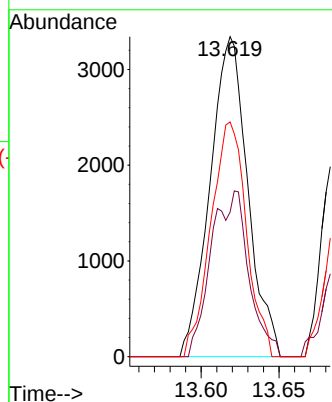
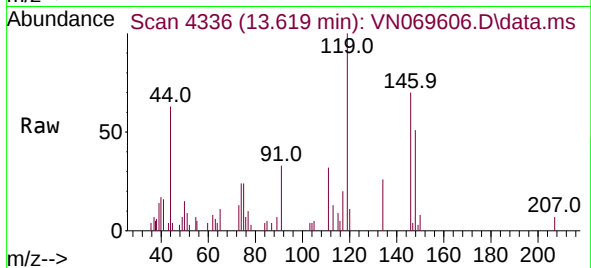
Acq: 22 Nov 2021 13:39

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	146	Resp:	5622
Ion Ratio	Lower	Upper	
146	100		
111	27.9	21.4	64.2
148	69.3	32.5	97.4



#88

1,2-Dibromo-3-Chloropropane

Concen: 0.250 ug/l

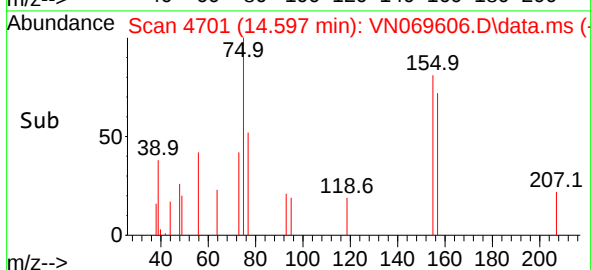
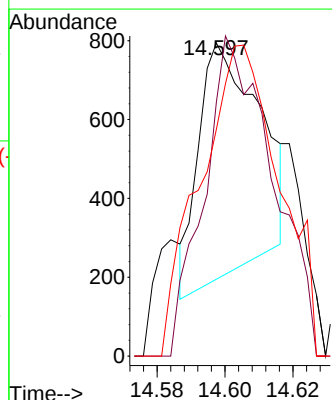
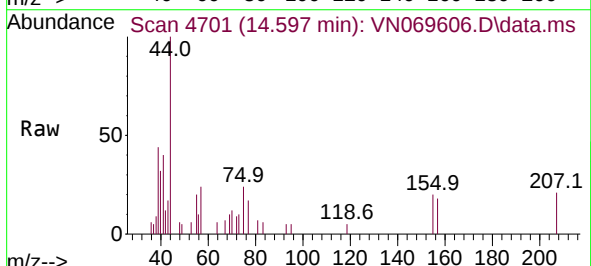
RT: 14.597 min Scan# 4701

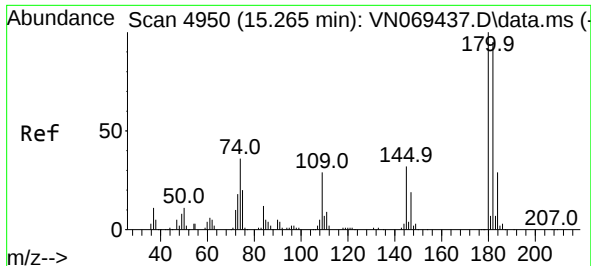
Delta R.T. -0.008 min

Lab File: VN069606.D

Acq: 22 Nov 2021 13:39

Tgt Ion:	75	Resp:	728
Ion Ratio	Lower	Upper	
75	100		
155	156.5	63.8	95.8#
157	167.7	77.9	116.9#





#89

1,2,4-Trichlorobenzene

Concen: 1.240 ug/l

RT: 15.263 min Scan# 4949

Delta R.T. -0.003 min

Lab File: VN069606.D

Acq: 22 Nov 2021 13:39

Instrument :

MSVOA_N

ClientSampleId :

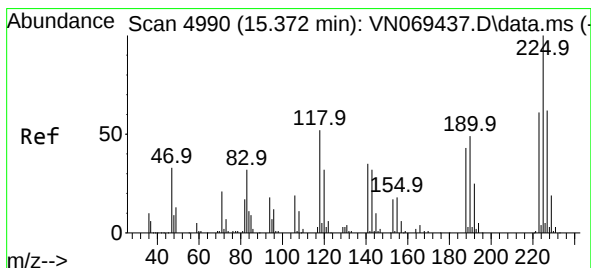
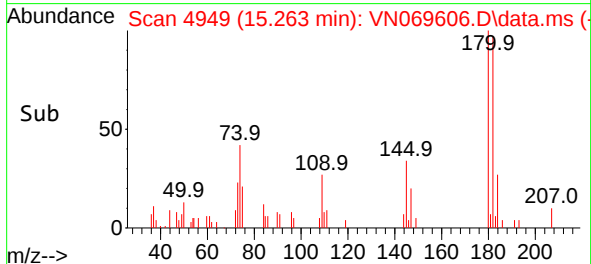
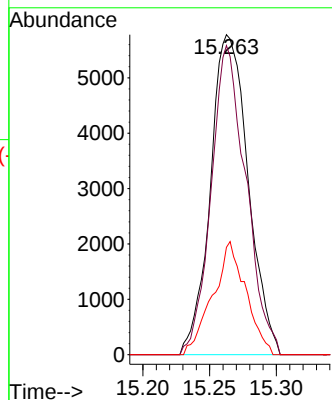
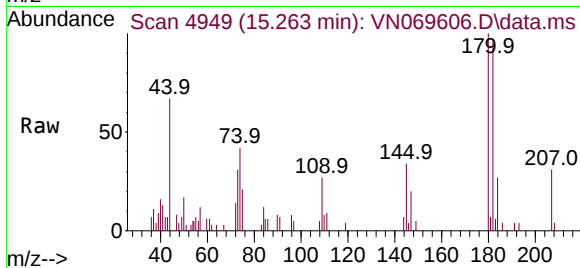
Tgt Ion:180 Resp: 11383

Ion Ratio Lower Upper

180 100

182 89.0 77.7 116.5

145 31.0 26.6 39.8



#90

Hexachlorobutadiene

Concen: 0.234 ug/l

RT: 15.370 min Scan# 4989

Delta R.T. -0.003 min

Lab File: VN069606.D

Acq: 22 Nov 2021 13:39

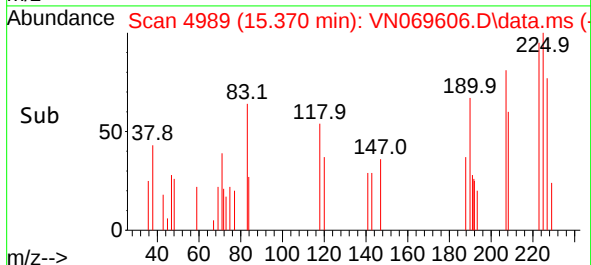
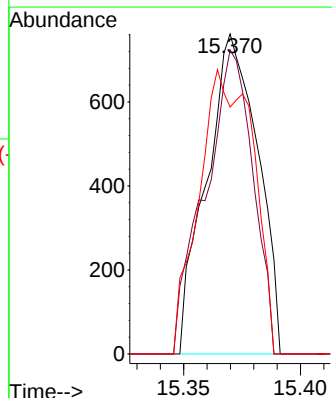
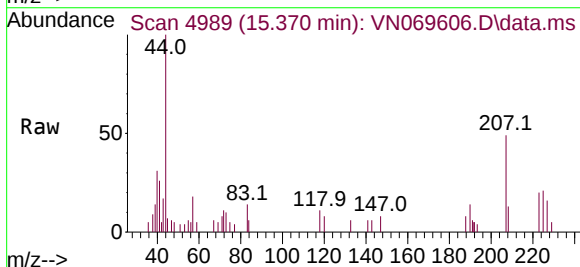
Tgt Ion:225 Resp: 1161

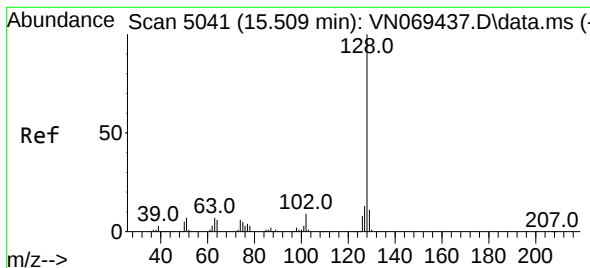
Ion Ratio Lower Upper

225 100

223 89.1 0.0 126.8

227 55.4 0.0 123.0





#91

Naphthalene

Concen: 1.956 ug/l

RT: 15.507 min Scan# 5041

Delta R.T. 0.000 min

Lab File: VN069606.D

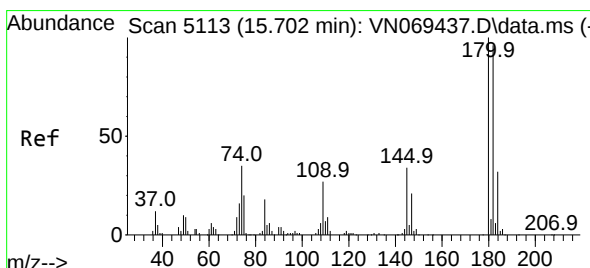
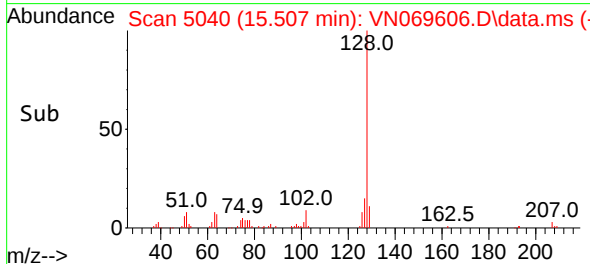
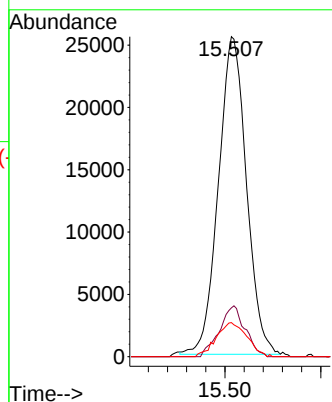
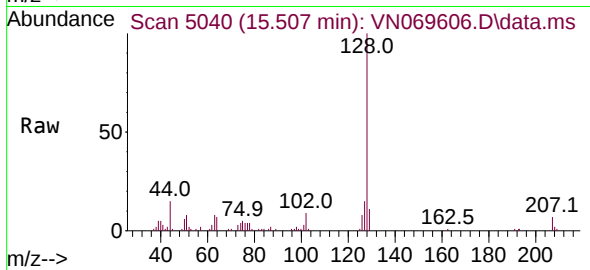
Acq: 22 Nov 2021 13:39

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:128	Resp:	51719
Ion Ratio	Lower	Upper
128	100	
127	14.7	10.7 16.1
129	11.7	9.0 13.6



#92

1,2,3-Trichlorobenzene

Concen: 1.554 ug/l

RT: 15.705 min Scan# 5114

Delta R.T. 0.003 min

Lab File: VN069606.D

Acq: 22 Nov 2021 13:39

Tgt Ion:180	Resp:	14027
Ion Ratio	Lower	Upper
180	100	
182	91.7	0.0 190.0
145	4.4	0.0 67.8

