

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120321\
 Data File : VN069722.D
 Acq On : 3 Dec 2021 16:55
 Operator : JC/MD
 Sample : M4922-15
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE131D1-20211130

Quant Time: Dec 04 05:33:52 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)

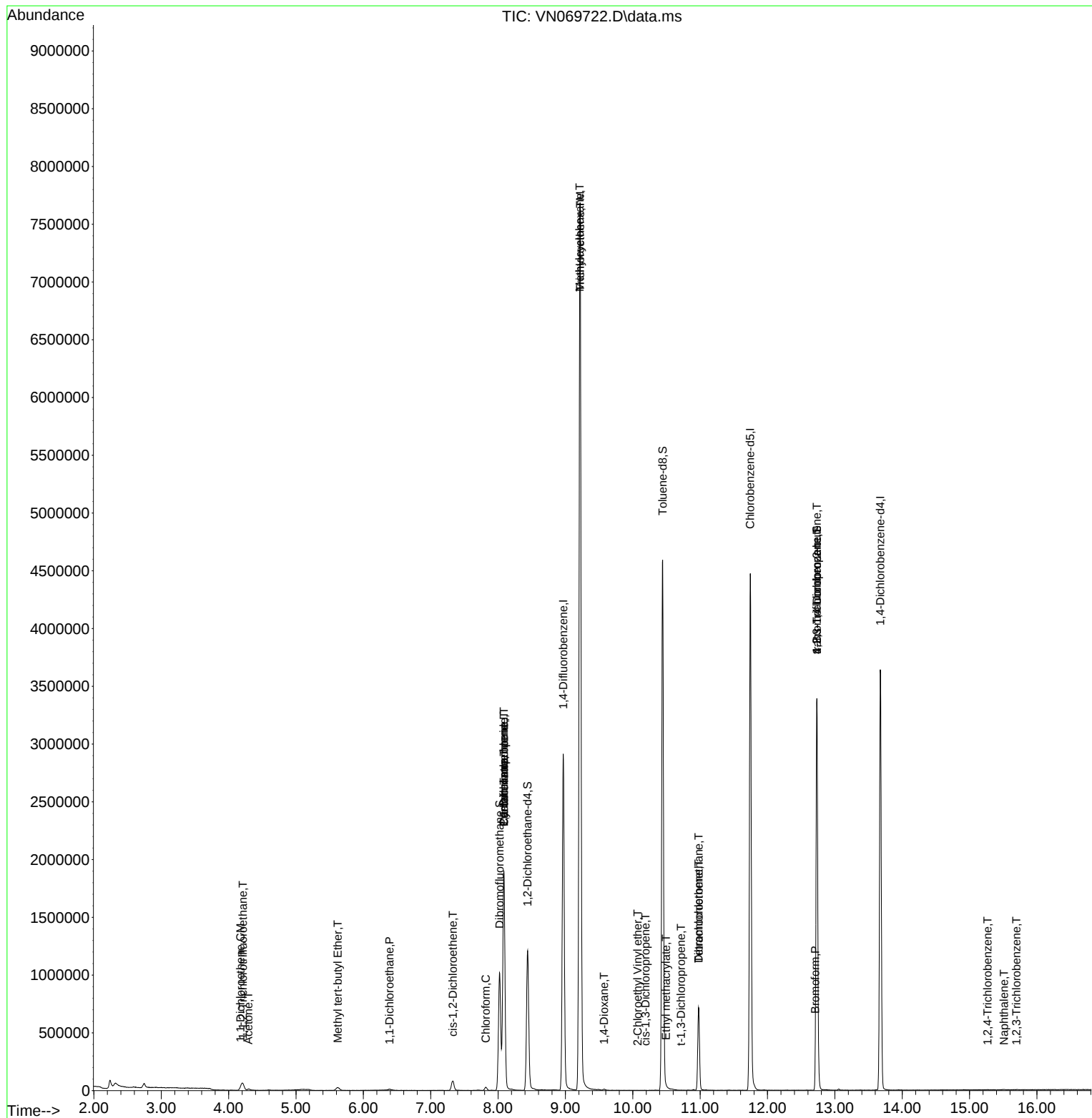
Internal Standards						
1) Pentafluorobenzene	8.086	168	1416319	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	2454971	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	2506978	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	969212	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.437	65	1051304	48.075	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	96.160%		
35) Dibromofluoromethane	8.021	113	734582	47.770	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	95.540%		
50) Toluene-d8	10.443	98	3099352	50.196	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	100.400%		
62) 4-Bromofluorobenzene	12.733	95	1180377	52.768	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	105.540%		
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	4.210	101	37583	2.684	ug/l #	68
12) 1,1-Dichloroethene	4.175	96	7676	0.569	ug/l	88
16) Acetone	4.293	43	9486	0.721	ug/l	98
19) Methyl tert-butyl Ether	5.621	73	21060	0.401	ug/l #	85
24) 1,1-Dichloroethane	6.388	63	9812	0.319	ug/l #	90
27) cis-1,2-Dichloroethene	7.329	96	48985	2.767	ug/l	99
30) Chloroform	7.817	83	26785	0.862	ug/l	99
31) Cyclohexane	8.086	56	37651	1.237	ug/l #	36
36) 1,1-Dichloropropene	8.086	75	122435	5.239	ug/l #	49
38) Carbon Tetrachloride	8.086	117	146261	6.382	ug/l #	16
39) Methylcyclohexane	9.212	83	34206	1.230	ug/l #	1
44) Trichloroethene	9.217	130	2698253	158.255	ug/l	90
49) 1,4-Dioxane	9.574	88	7774	18.036	ug/l #	79
53) t-1,3-Dichloropropene	10.717	75	136	2.799	ug/l #	64
54) cis-1,3-Dichloropropene	10.188	75	26	1.999	ug/l #	32
56) Ethyl methacrylate	10.494	69	149	2.283	ug/l #	1
58) 2-Chloroethyl Vinyl ether	10.073	63	28	18.392	ug/l #	45
60) Dibromochloromethane	10.977	129	149390	9.923	ug/l #	11
64) Tetrachloroethene	10.977	164	159630	9.391	ug/l	95
71) Bromoform	12.707	173	206	2.744	ug/l #	29
76) 1,2,3-Trichloropropane	12.733	75	659669	23.734	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.733	75	659669	75.429	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.268	180	978	2.936	ug/l #	47
95) Naphthalene	15.509	128	3211	4.048	ug/l #	79
96) 1,2,3-Trichlorobenzene	15.694	180	453	2.463	ug/l #	66

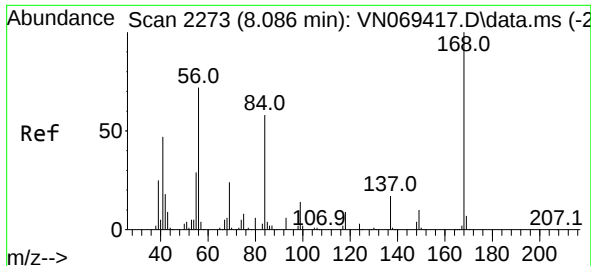
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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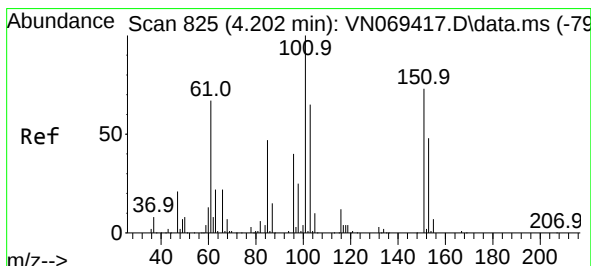
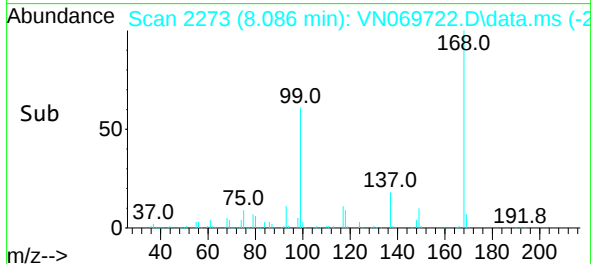
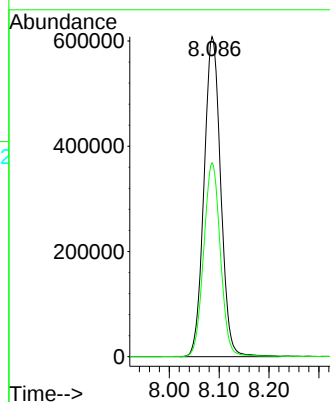
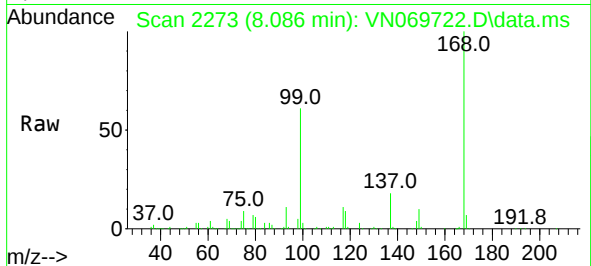




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN069722.D
Acq: 3 Dec 2021 16:55

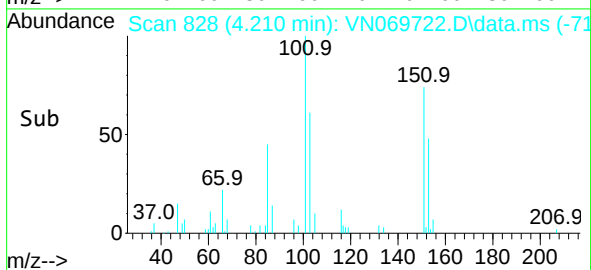
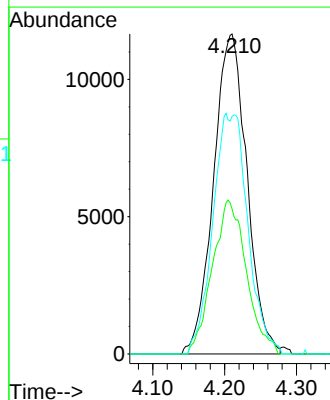
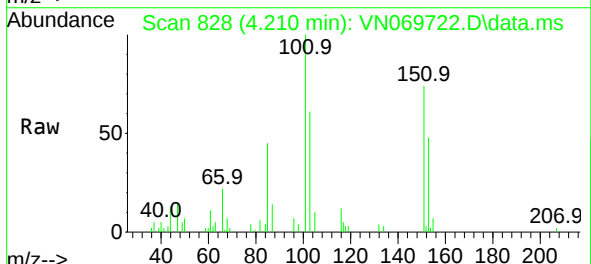
Instrument :
MSVOA_N
ClientSampleId :
RE131D1-20211130

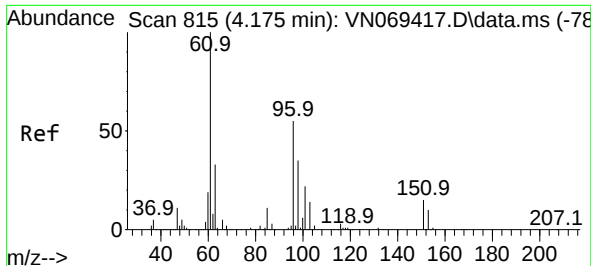
Tgt Ion:168 Resp: 1416319
Ion Ratio Lower Upper
168 100
99 60.5 41.3 61.9



#9
1,1,2-Trichlorotrifluoroethane
Concen: 2.684 ug/l
RT: 4.210 min Scan# 828
Delta R.T. 0.008 min
Lab File: VN069722.D
Acq: 3 Dec 2021 16:55

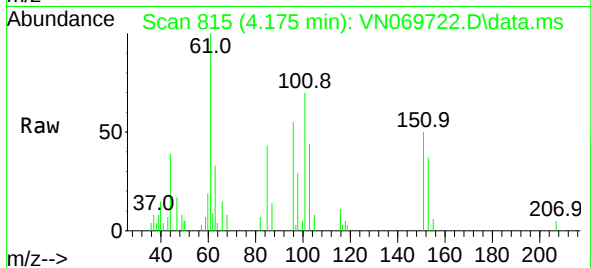
Tgt Ion:101 Resp: 37583
Ion Ratio Lower Upper
101 100
85 48.9 37.2 55.8
151 40.0 65.9 98.9#





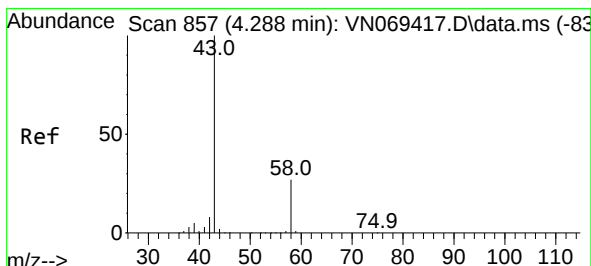
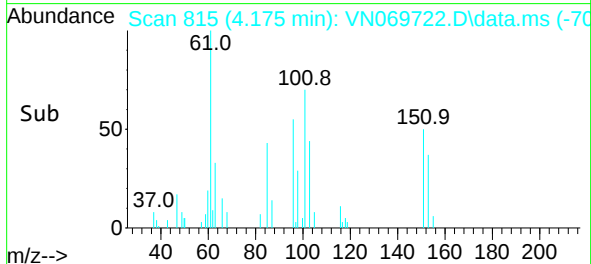
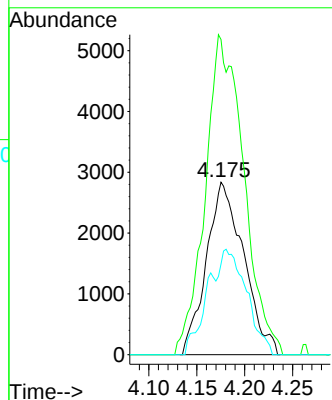
#12
1,1-Dichloroethene
Concen: 0.569 ug/l
RT: 4.175 min Scan# 815
Delta R.T. 0.000 min
Lab File: VN069722.D
Acq: 3 Dec 2021 16:55

Instrument :
MSVOA_N
ClientSampleId :
RE131D1-20211130



Tgt Ion: 96 Resp: 7676

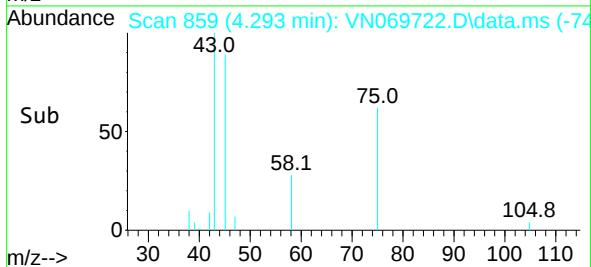
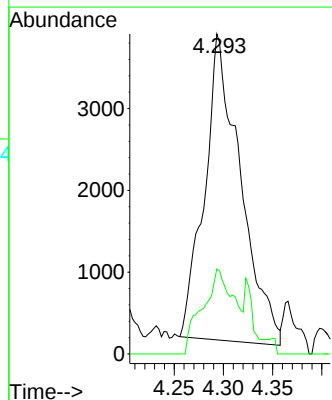
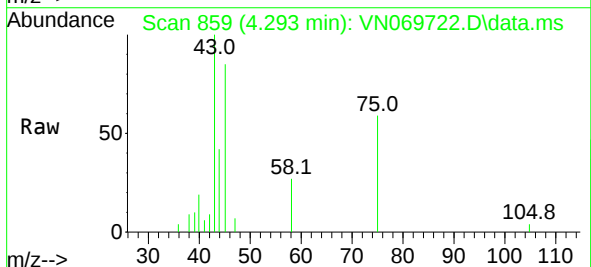
Ion	Ratio	Lower	Upper
96	100		
61	177.2	131.0	196.6
98	52.5	52.4	78.6

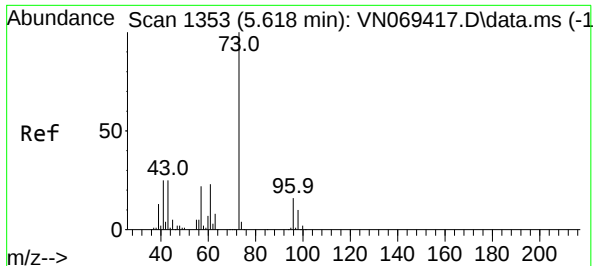


#16
Acetone
Concen: 0.721 ug/l
RT: 4.293 min Scan# 859
Delta R.T. 0.003 min
Lab File: VN069722.D
Acq: 3 Dec 2021 16:55

Tgt Ion: 43 Resp: 9486

Ion	Ratio	Lower	Upper
43	100		
58	28.1	23.1	34.7





#19

Methyl tert-butyl Ether

Concen: 0.401 ug/l

RT: 5.621 min Scan# 11

Delta R.T. 0.003 min

Lab File: VN069722.D

Acq: 3 Dec 2021 16:55

Instrument :

MSVOA_N

ClientSampleId :

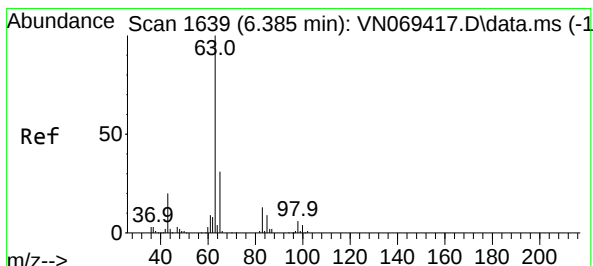
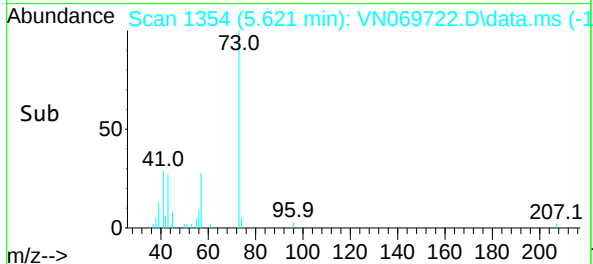
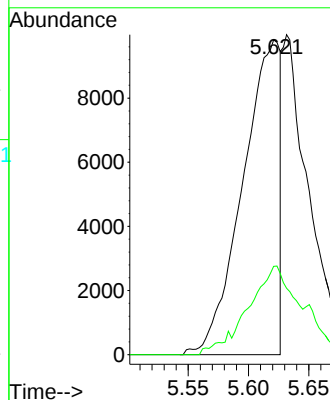
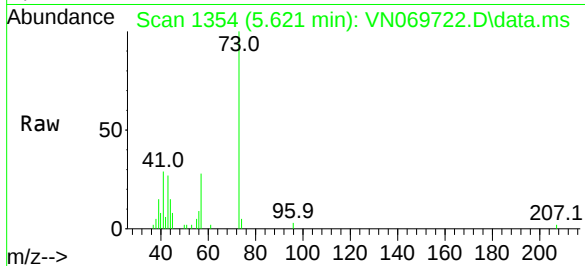
RE131D1-20211130

Tgt Ion: 73 Resp: 21060

Ion Ratio Lower Upper

73 100

57 28.1 16.8 25.2#



#24

1,1-Dichloroethane

Concen: 0.319 ug/l

RT: 6.388 min Scan# 1640

Delta R.T. 0.000 min

Lab File: VN069722.D

Acq: 3 Dec 2021 16:55

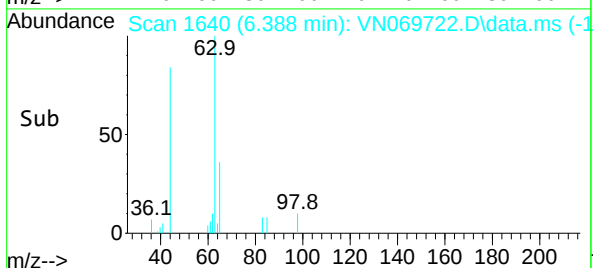
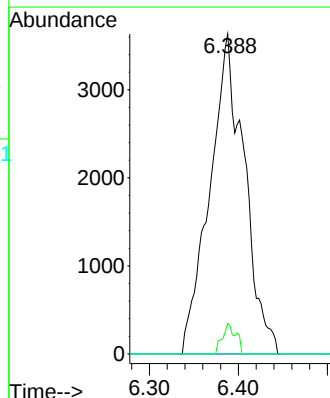
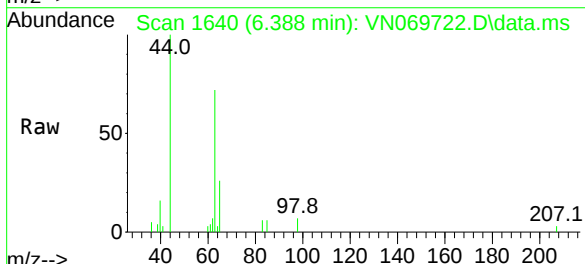
Tgt Ion: 63 Resp: 9812

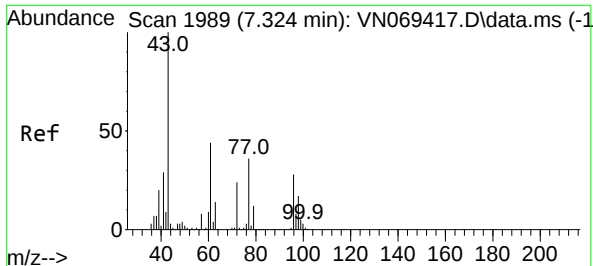
Ion Ratio Lower Upper

63 100

98 9.5 3.3 9.9

100 0.0 2.1 6.5#





#27

cis-1,2-Dichloroethene

Concen: 2.767 ug/l

RT: 7.329 min Scan# 1989

Delta R.T. 0.003 min

Lab File: VN069722.D

Acq: 3 Dec 2021 16:55

Instrument :

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ClientSampleId :

RE131D1-20211130

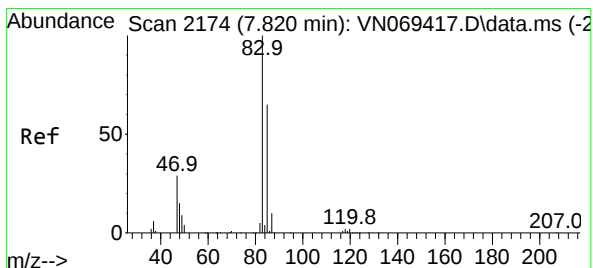
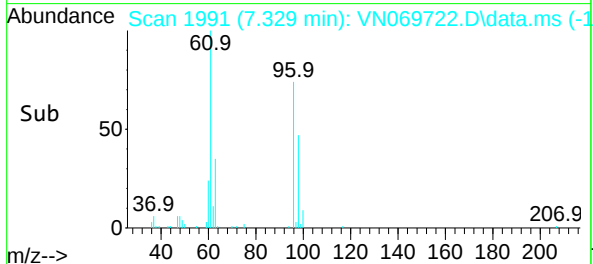
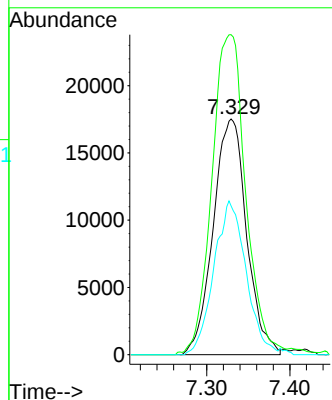
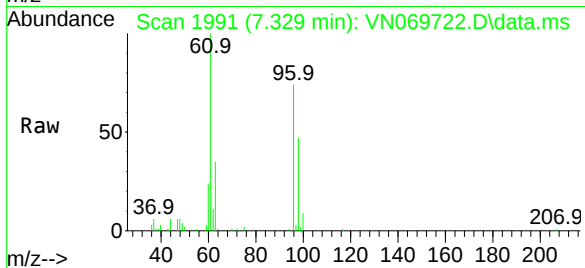
Tgt Ion: 96 Resp: 48985

Ion Ratio Lower Upper

96 100

61 137.4 0.0 275.0

98 62.6 0.0 129.6



#30

Chloroform

Concen: 0.862 ug/l

RT: 7.817 min Scan# 2173

Delta R.T. -0.003 min

Lab File: VN069722.D

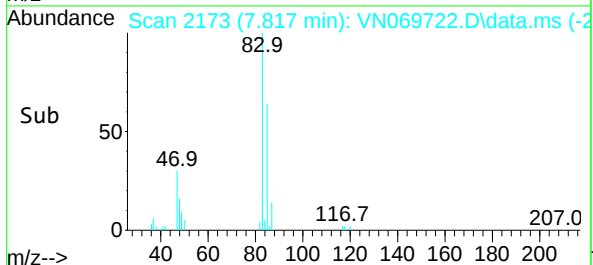
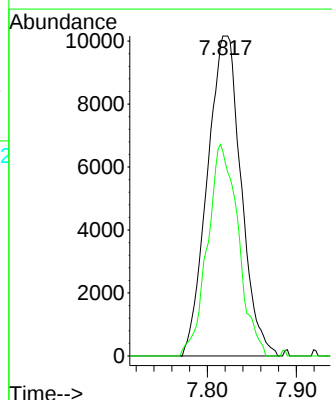
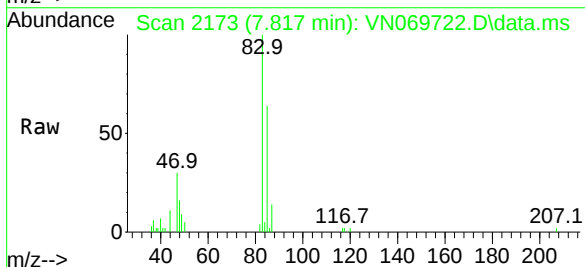
Acq: 3 Dec 2021 16:55

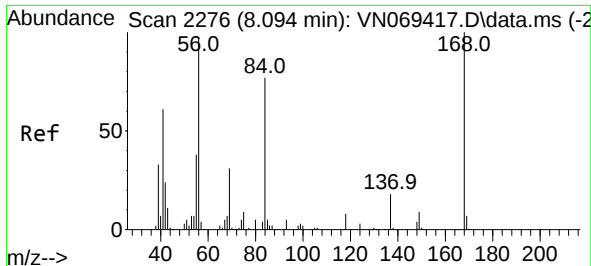
Tgt Ion: 83 Resp: 26785

Ion Ratio Lower Upper

83 100

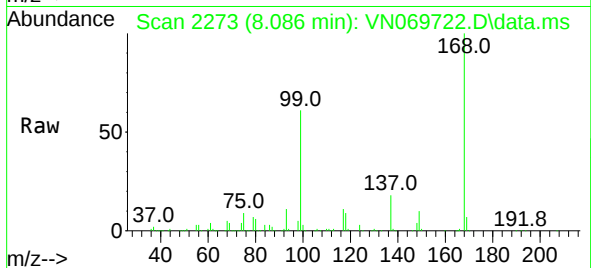
85 63.8 51.9 77.9



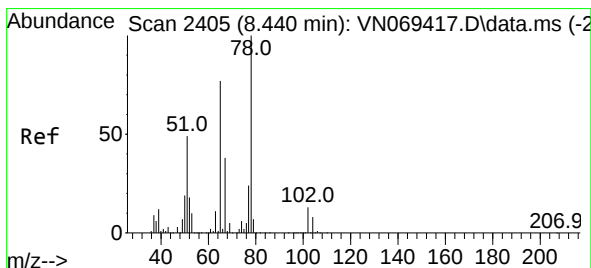
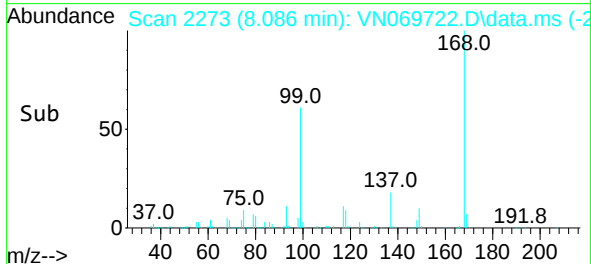
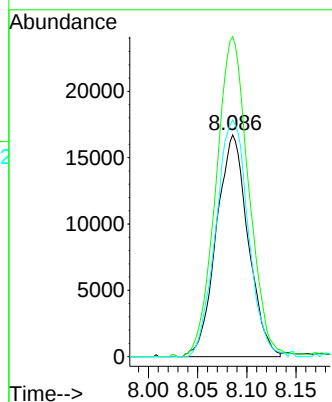


#31
Cyclohexane
Concen: 1.237 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.008 min
Lab File: VN069722.D
Acq: 3 Dec 2021 16:55

Instrument :
MSVOA_N
ClientSampleId :
RE131D1-20211130

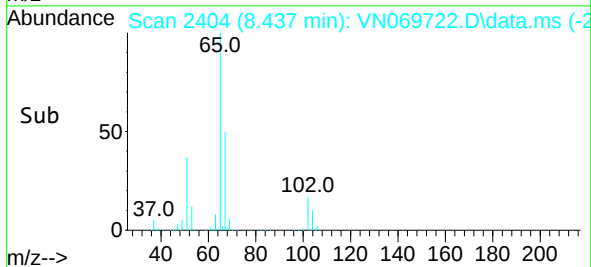
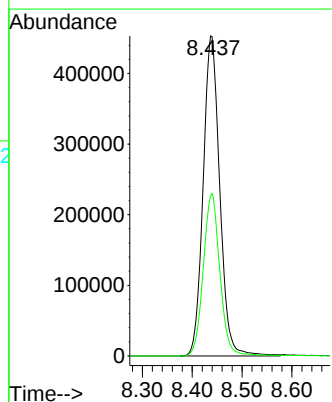
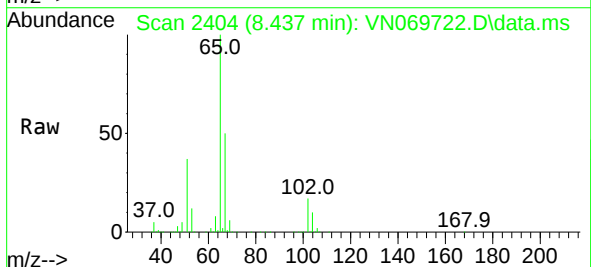


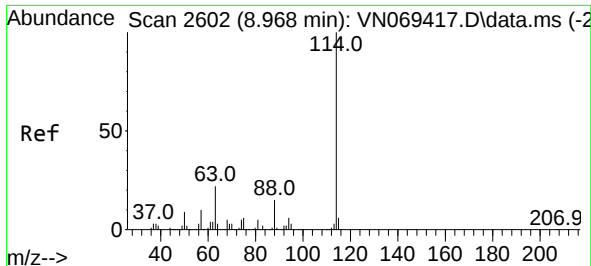
Tgt Ion: 56 Resp: 37651
Ion Ratio Lower Upper
56 100
69 144.3 27.1 40.7#
84 106.7 73.4 110.0



#33
1,2-Dichloroethane-d4
Concen: 48.075 ug/l
RT: 8.437 min Scan# 2404
Delta R.T. 0.000 min
Lab File: VN069722.D
Acq: 3 Dec 2021 16:55

Tgt Ion: 65 Resp: 1051304
Ion Ratio Lower Upper
65 100
67 50.4 0.0 103.0

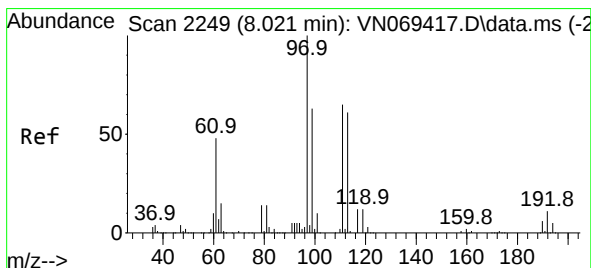
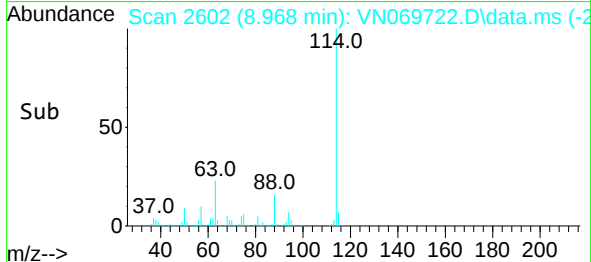
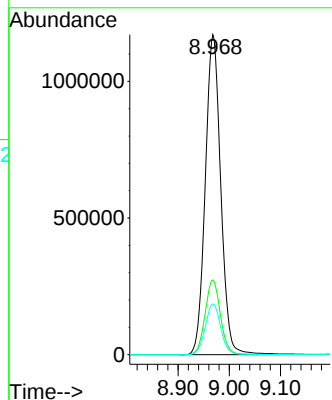
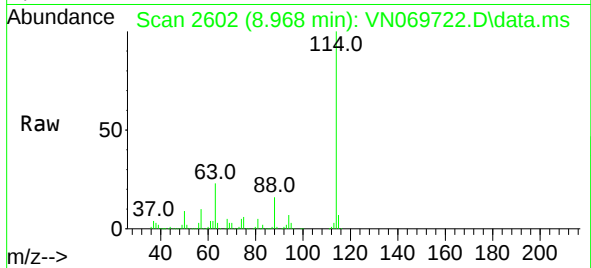




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.968 min Scan# 2602
Delta R.T. -0.000 min
Lab File: VN069722.D
Acq: 3 Dec 2021 16:55

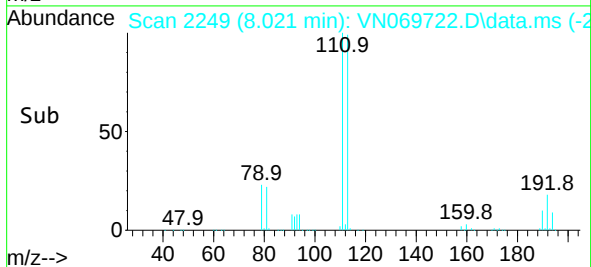
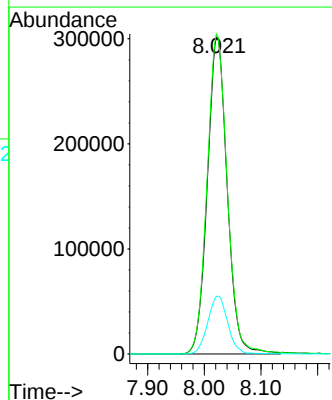
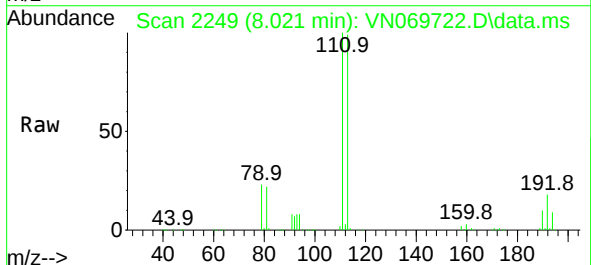
Instrument :
MSVOA_N
ClientSampleId :
RE131D1-20211130

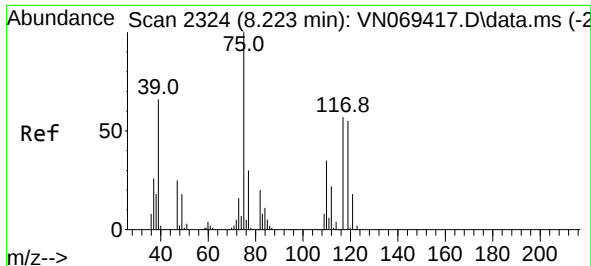
Tgt Ion:114 Resp: 2454971
Ion Ratio Lower Upper
114 100
63 23.4 0.0 37.8
88 15.9 0.0 27.4



#35
Dibromofluoromethane
Concen: 47.770 ug/l
RT: 8.021 min Scan# 2249
Delta R.T. -0.003 min
Lab File: VN069722.D
Acq: 3 Dec 2021 16:55

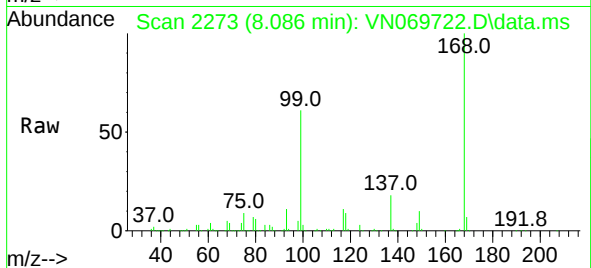
Tgt Ion:113 Resp: 734582
Ion Ratio Lower Upper
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111 102.5 82.2 123.2
192 18.4 16.9 25.3



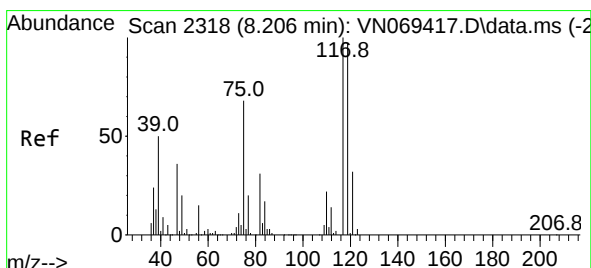
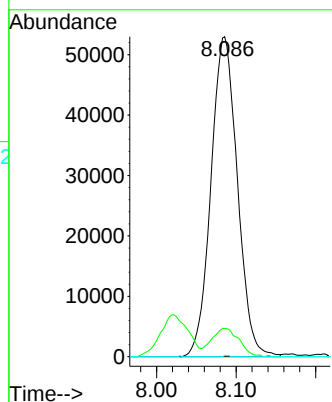
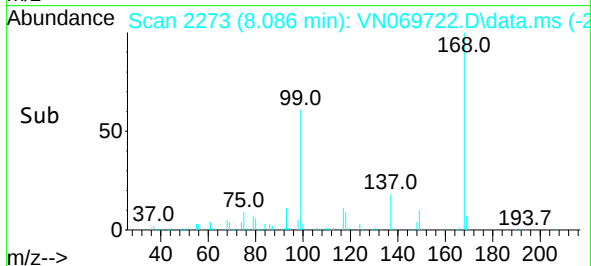


#36
1,1-Dichloropropene
Concen: 5.239 ug/l
RT: 8.086 min Scan# 211
Delta R.T. -0.137 min
Lab File: VN069722.D
Acq: 3 Dec 2021 16:55

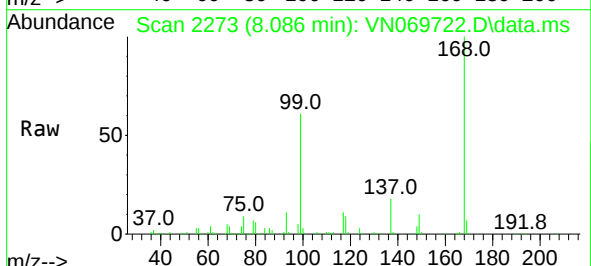
Instrument :
MSVOA_N
ClientSampleId :
RE131D1-20211130



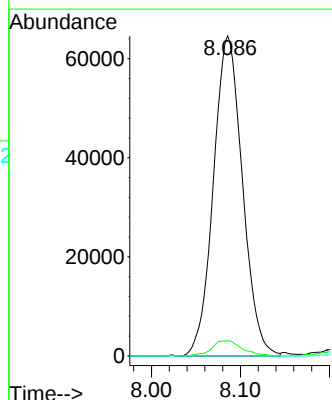
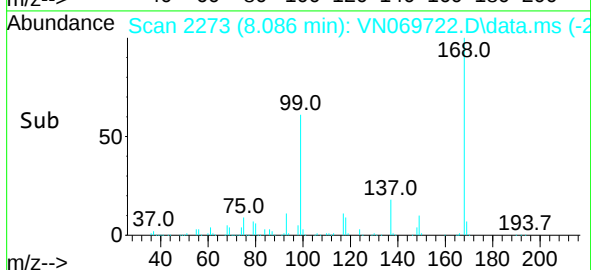
Tgt Ion: 75 Resp: 122435
Ion Ratio Lower Upper
75 100
110 9.2 18.4 55.2#
77 0.1 24.4 36.6#

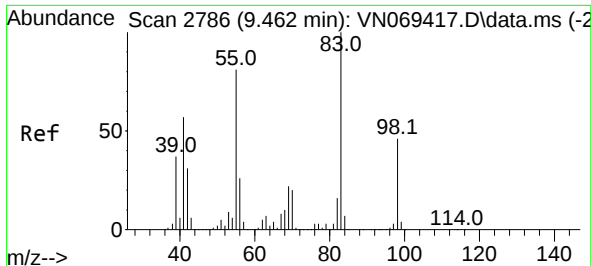


#38
Carbon Tetrachloride
Concen: 6.382 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.121 min
Lab File: VN069722.D
Acq: 3 Dec 2021 16:55



Tgt Ion: 117 Resp: 146261
Ion Ratio Lower Upper
117 100
119 4.8 76.1 114.1#
121 0.0 24.2 36.2#





#39

Methylcyclohexane

Concen: 1.230 ug/l

RT: 9.212 min Scan# 2

Delta R.T. -0.249 min

Lab File: VN069722.D

Acq: 3 Dec 2021 16:55

Instrument :

MSVOA_N

ClientSampleId :

RE131D1-20211130

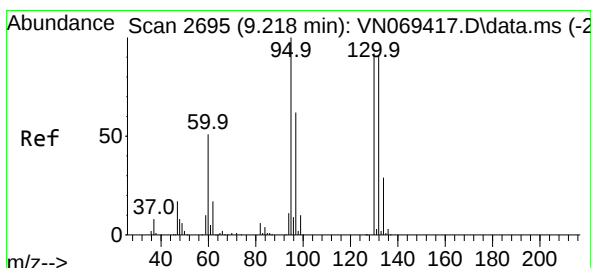
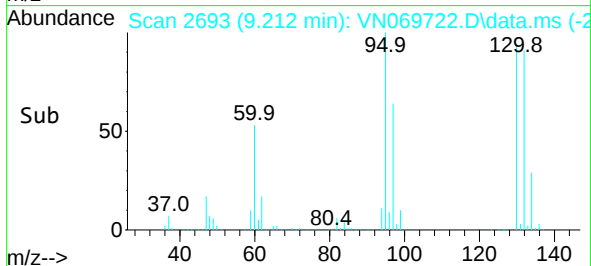
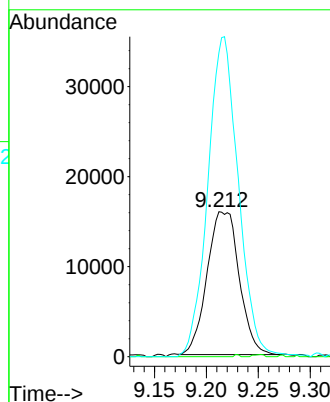
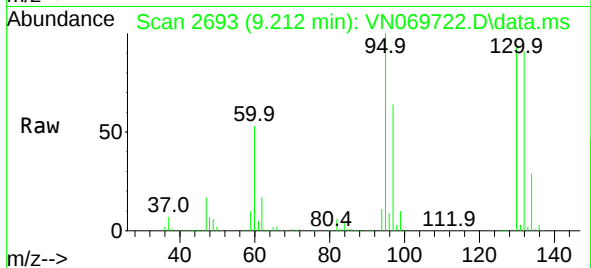
Tgt Ion: 83 Resp: 34206

Ion Ratio Lower Upper

83 100

55 0.0 58.1 87.1#

98 211.3 38.4 57.6#



#44

Trichloroethene

Concen: 158.255 ug/l

RT: 9.217 min Scan# 2695

Delta R.T. 0.000 min

Lab File: VN069722.D

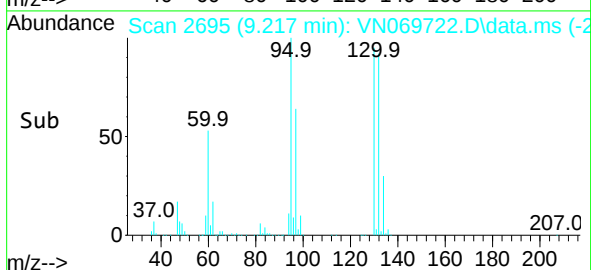
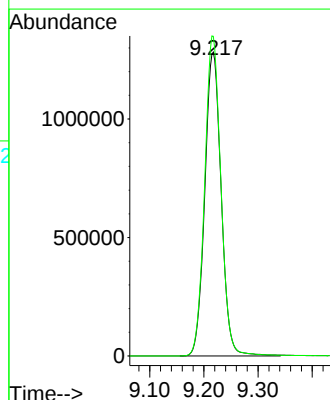
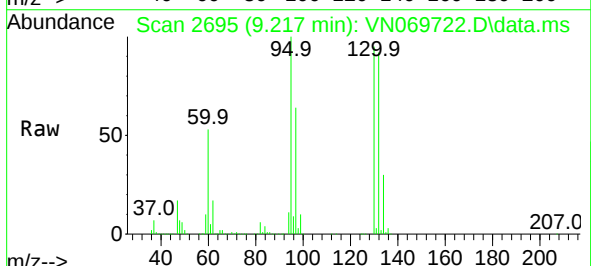
Acq: 3 Dec 2021 16:55

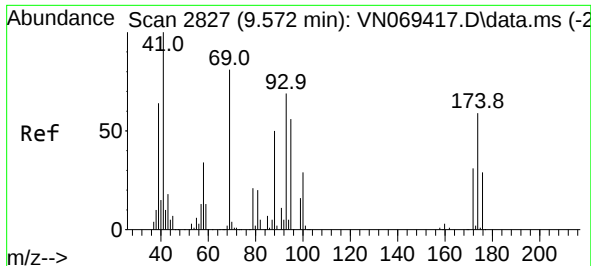
Tgt Ion:130 Resp: 2698253

Ion Ratio Lower Upper

130 100

95 105.2 0.0 191.2





#49

1,4-Dioxane

Concen: 18.036 ug/l

RT: 9.574 min Scan# 21

Delta R.T. 0.003 min

Lab File: VN069722.D

Acq: 3 Dec 2021 16:55

Instrument :

MSVOA_N

ClientSampleId :

RE131D1-20211130

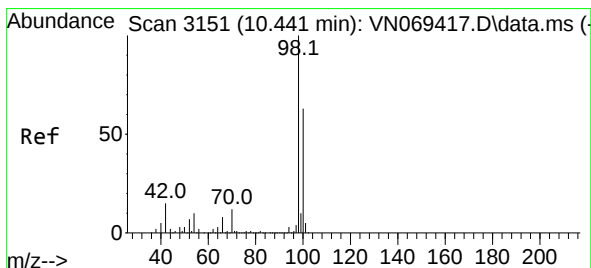
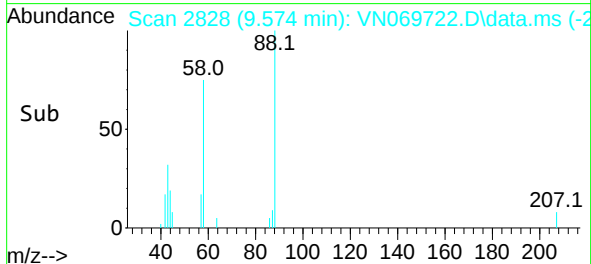
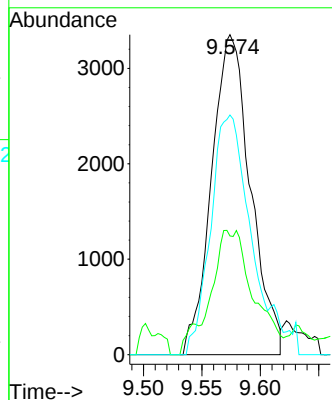
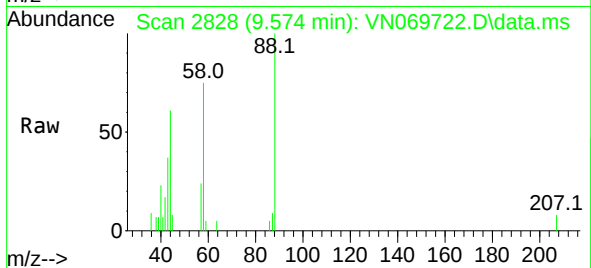
Tgt Ion: 88 Resp: 7774

Ion Ratio Lower Upper

88 100

43 43.4 23.4 35.2#

58 77.5 50.6 75.8#



#50

Toluene-d8

Concen: 50.196 ug/l

RT: 10.443 min Scan# 3152

Delta R.T. 0.000 min

Lab File: VN069722.D

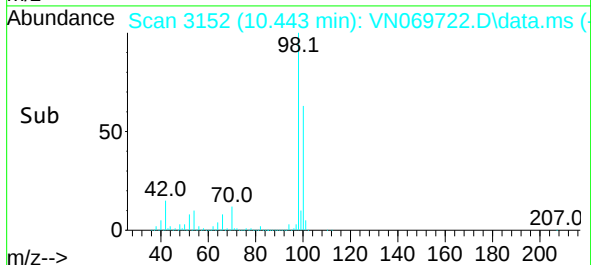
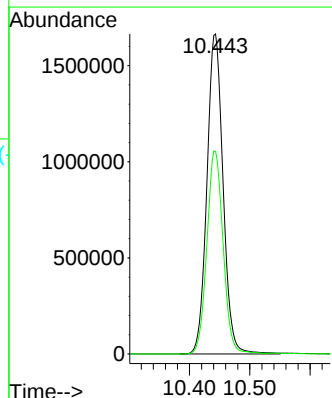
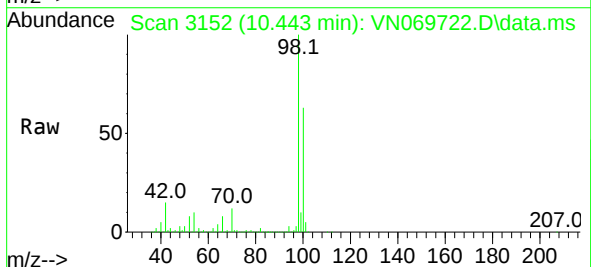
Acq: 3 Dec 2021 16:55

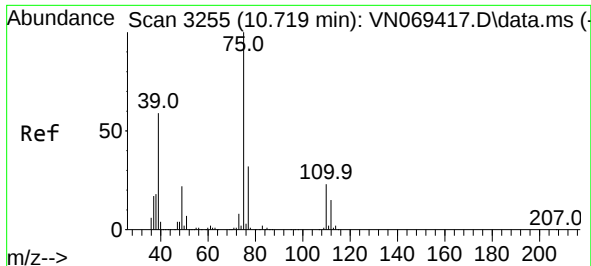
Tgt Ion: 98 Resp: 3099352

Ion Ratio Lower Upper

98 100

100 63.8 50.4 75.6

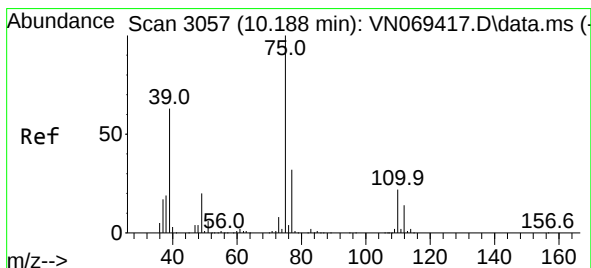
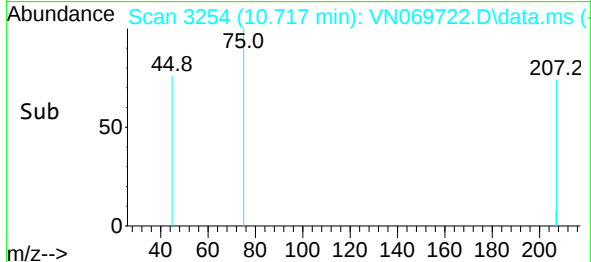
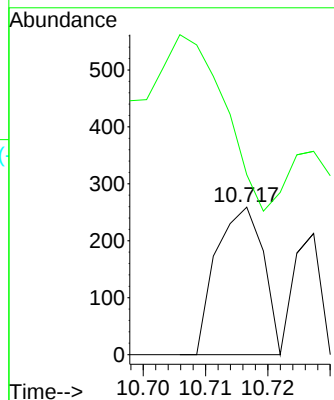
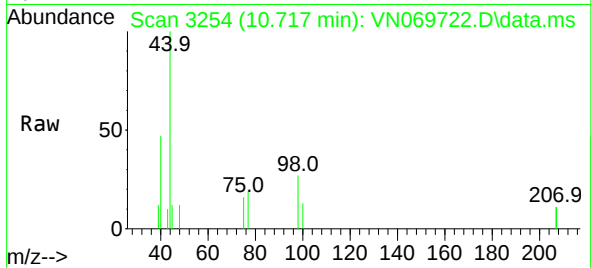




#53
 t-1,3-Dichloropropene
 Concen: 2.799 ug/l
 RT: 10.717 min Scan# 31
 Delta R.T. -0.002 min
 Lab File: VN069722.D
 Acq: 3 Dec 2021 16:55

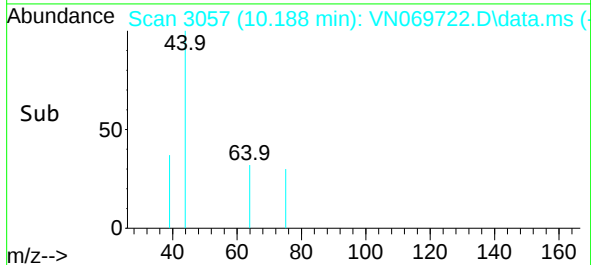
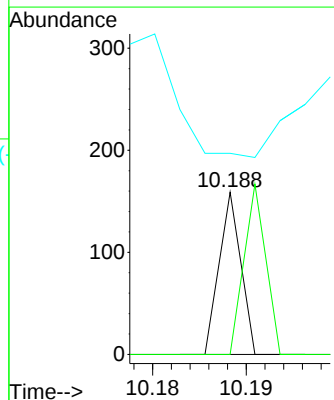
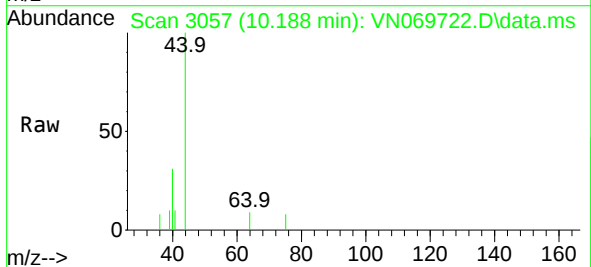
Instrument :
 MSVOA_N
 ClientSampleId :
 RE131D1-20211130

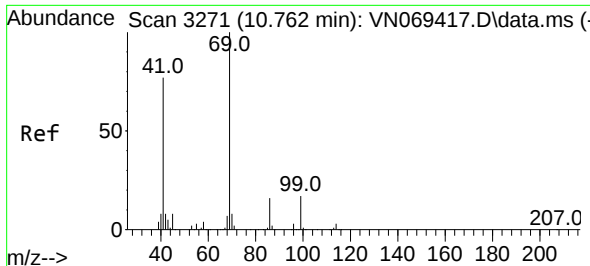
Tgt Ion: 75 Resp: 136
 Ion Ratio Lower Upper
 75 100
 77 12.0 25.6 38.4#



#54
 cis-1,3-Dichloropropene
 Concen: 1.999 ug/l
 RT: 10.188 min Scan# 3057
 Delta R.T. -0.003 min
 Lab File: VN069722.D
 Acq: 3 Dec 2021 16:55

Tgt Ion: 75 Resp: 26
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.4 39.6#
 39 0.0 42.5 63.7#

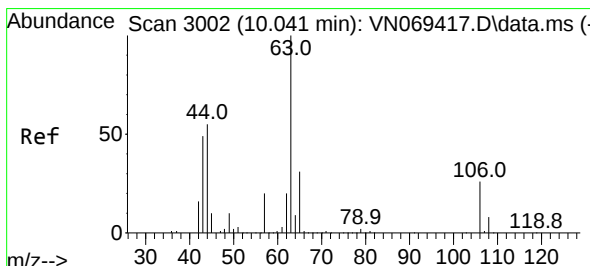
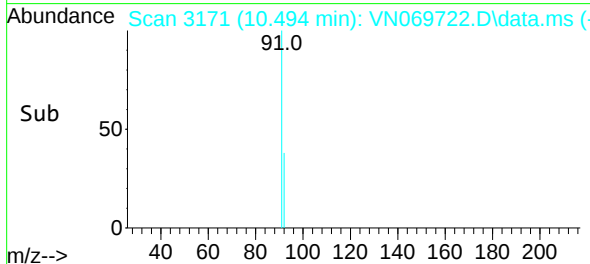
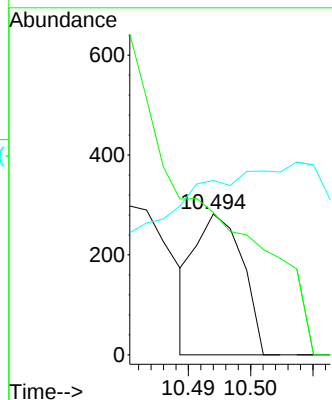
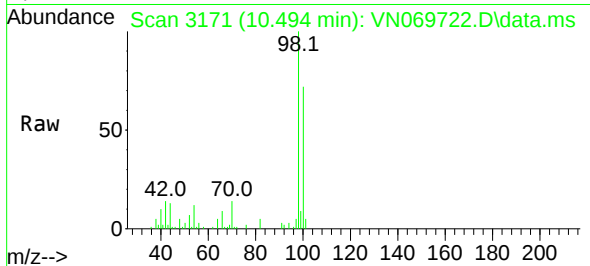




#56
Ethyl methacrylate
Concen: 2.283 ug/l
RT: 10.494 min Scan# 3171
Delta R.T. -0.268 min
Lab File: VN069722.D
Acq: 3 Dec 2021 16:55

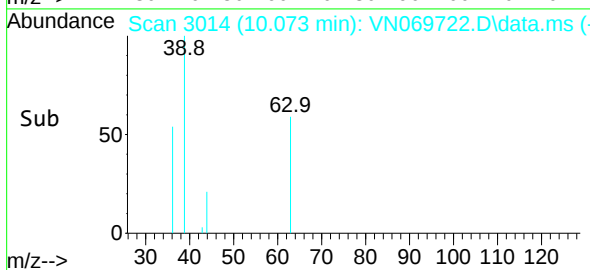
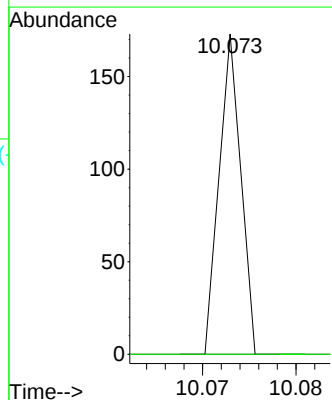
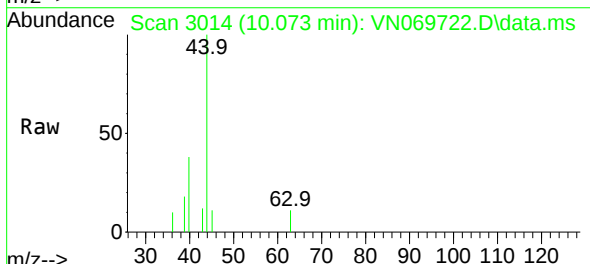
Instrument :
MSVOA_N
ClientSampleId :
RE131D1-20211130

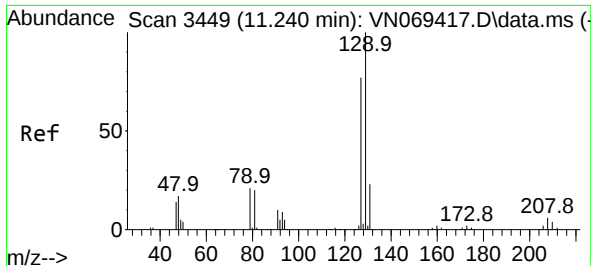
Tgt Ion: 69 Resp: 149
Ion Ratio Lower Upper
69 100
41 0.0 51.4 77.0#
39 132.2 34.6 52.0#



#58
2-Chloroethyl Vinyl ether
Concen: 18.392 ug/l
RT: 10.073 min Scan# 3014
Delta R.T. 0.030 min
Lab File: VN069722.D
Acq: 3 Dec 2021 16:55

Tgt Ion: 63 Resp: 28
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#

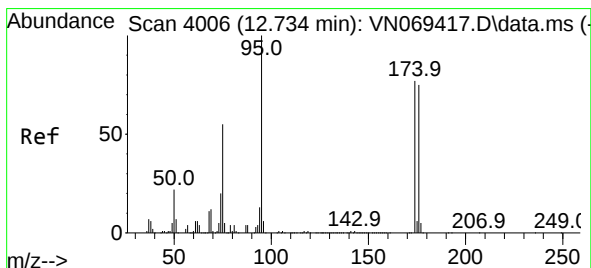
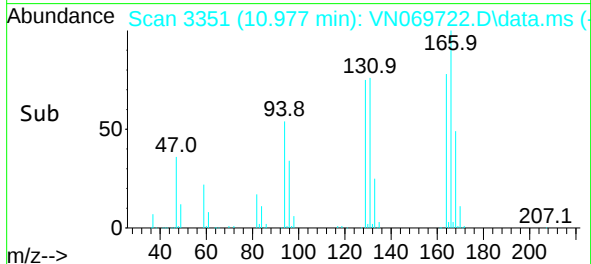
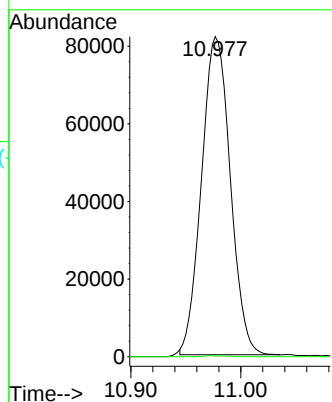
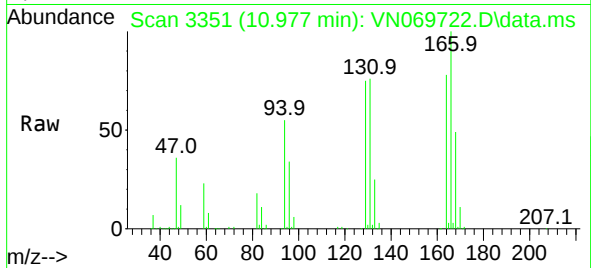




#60
Dibromochloromethane
Concen: 9.923 ug/l
RT: 10.977 min Scan# 31
Delta R.T. -0.263 min
Lab File: VN069722.D
Acq: 3 Dec 2021 16:55

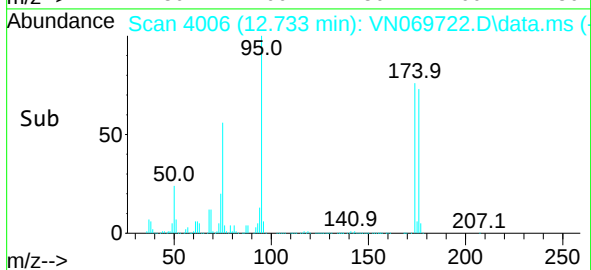
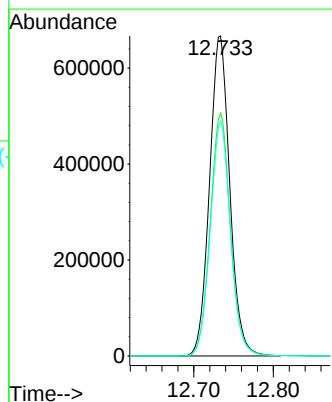
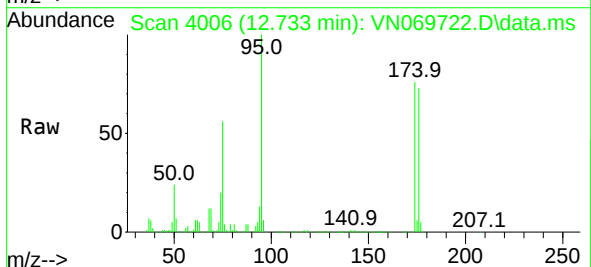
Instrument :
MSVOA_N
ClientSampleId :
RE131D1-20211130

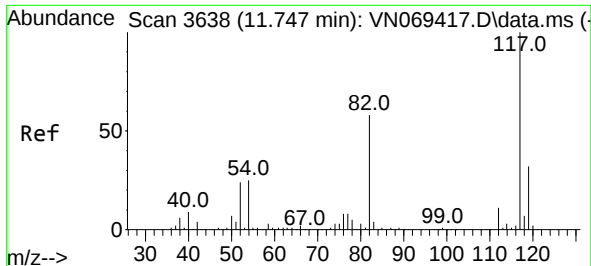
Tgt Ion:129 Resp: 149390
Ion Ratio Lower Upper
129 100
127 0.1 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 52.768 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.002 min
Lab File: VN069722.D
Acq: 3 Dec 2021 16:55

Tgt Ion: 95 Resp: 1180377
Ion Ratio Lower Upper
95 100
174 75.9 0.0 187.2
176 73.4 0.0 181.4

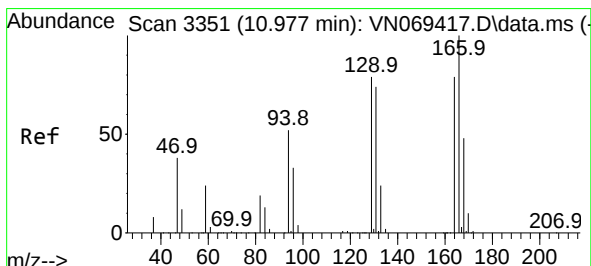
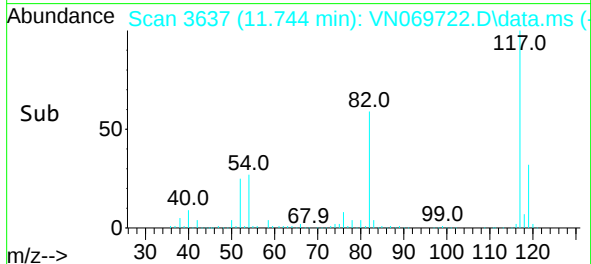
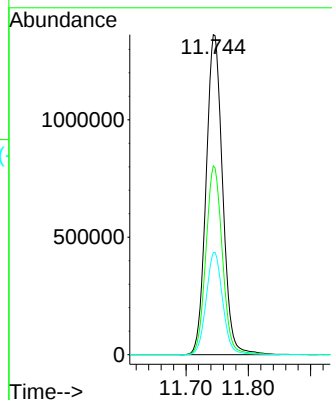
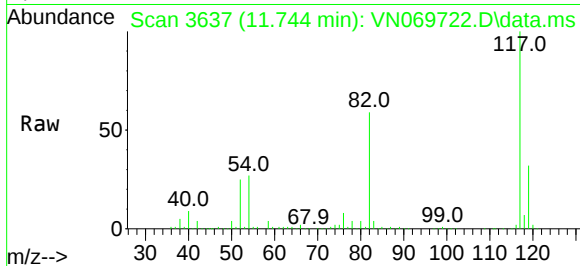




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.744 min Scan# 3637
Delta R.T. -0.002 min
Lab File: VN069722.D
Acq: 3 Dec 2021 16:55

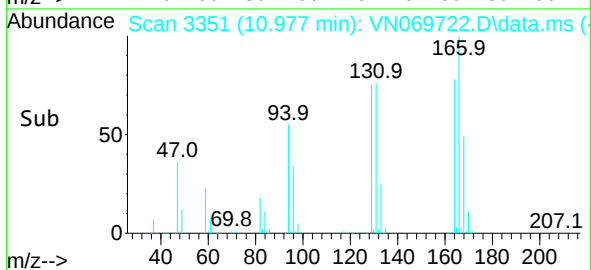
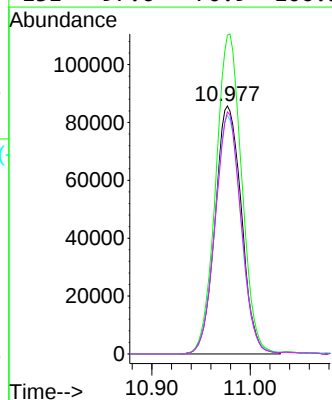
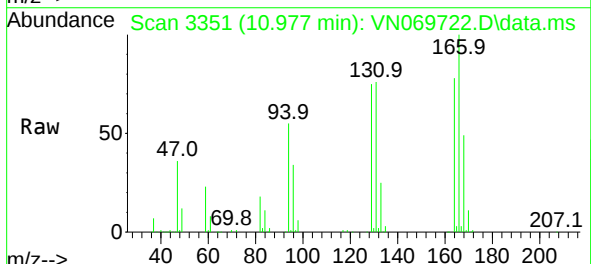
Instrument :
MSVOA_N
ClientSampleId :
RE131D1-20211130

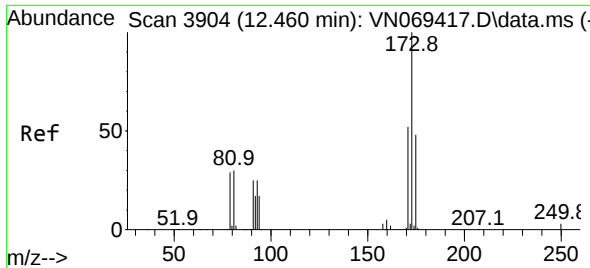
Tgt Ion:117 Resp: 2506978
Ion Ratio Lower Upper
117 100
82 59.0 42.4 63.6
119 31.9 25.4 38.2



#64
Tetrachloroethene
Concen: 9.391 ug/l
RT: 10.977 min Scan# 3351
Delta R.T. -0.002 min
Lab File: VN069722.D
Acq: 3 Dec 2021 16:55

Tgt Ion:164 Resp: 159630
Ion Ratio Lower Upper
164 100
166 128.6 101.9 152.9
129 96.3 72.0 108.0
131 97.6 70.9 106.3

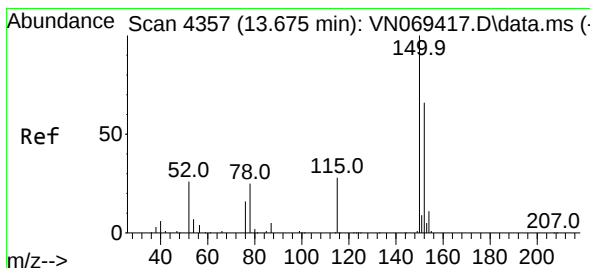
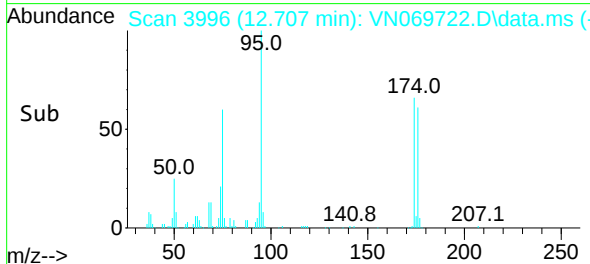
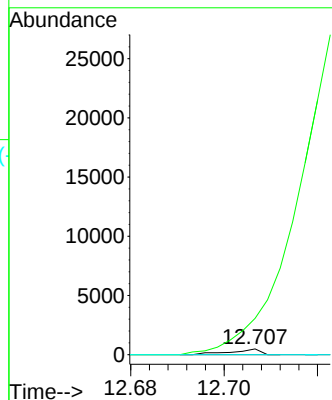
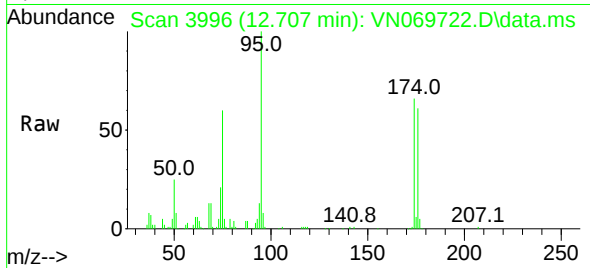




#71
Bromoform
Concen: 2.744 ug/l
RT: 12.707 min Scan# 3904
Delta R.T. 0.247 min
Lab File: VN069722.D
Acq: 3 Dec 2021 16:55

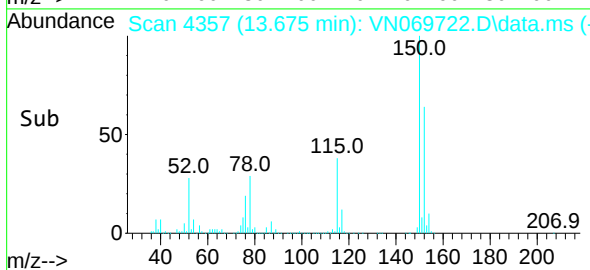
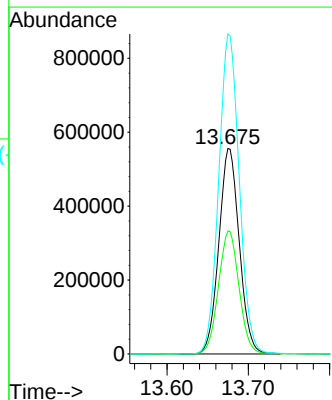
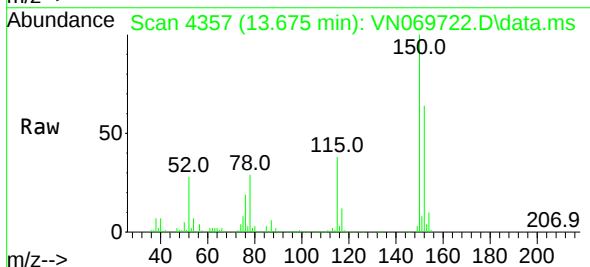
Instrument :
MSVOA_N
ClientSampleId :
RE131D1-20211130

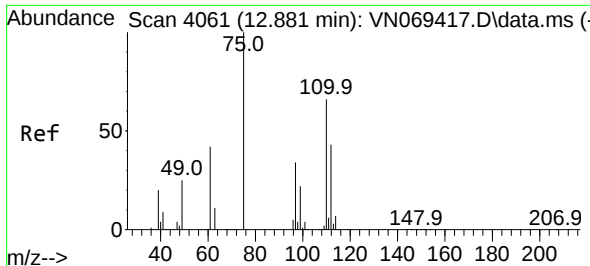
Tgt Ion:173 Resp: 206
Ion Ratio Lower Upper
173 100
175 0.0 24.2 72.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.675 min Scan# 4357
Delta R.T. -0.003 min
Lab File: VN069722.D
Acq: 3 Dec 2021 16:55

Tgt Ion:152 Resp: 969212
Ion Ratio Lower Upper
152 100
115 60.2 27.5 82.5
150 156.6 0.0 344.4

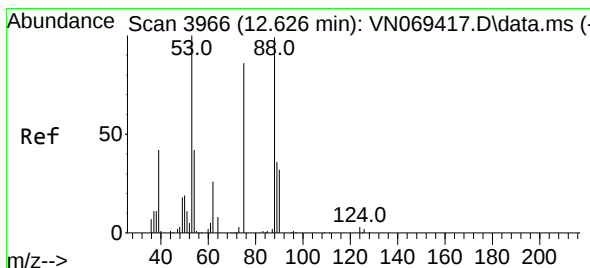
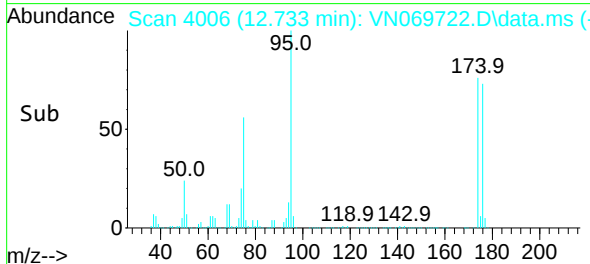
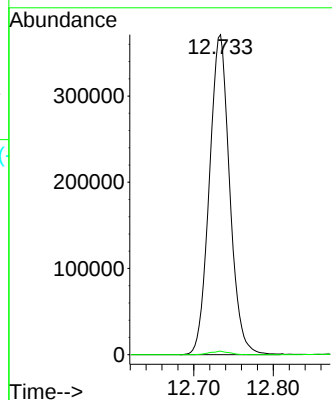
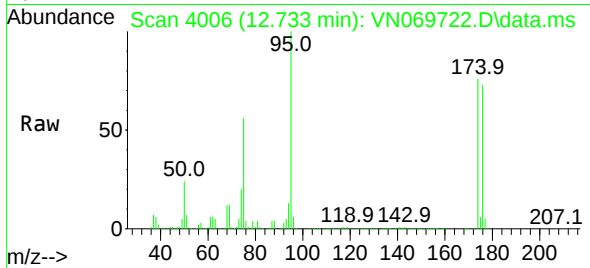




#76
1,2,3-Trichloropropane
Concen: 23.734 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.147 min
Lab File: VN069722.D
Acq: 3 Dec 2021 16:55

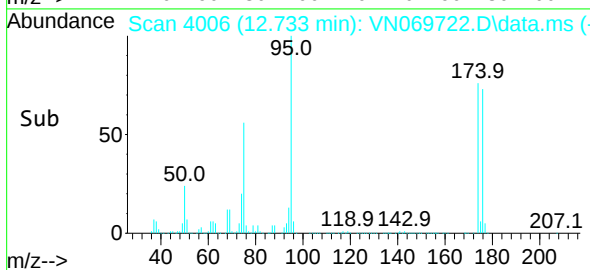
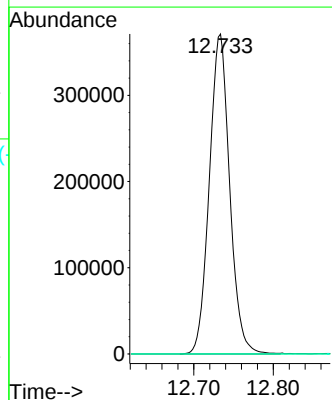
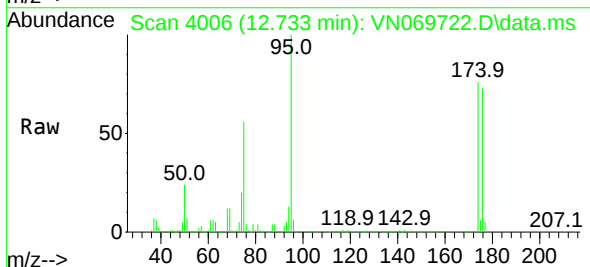
Instrument :
MSVOA_N
ClientSampleId :
RE131D1-20211130

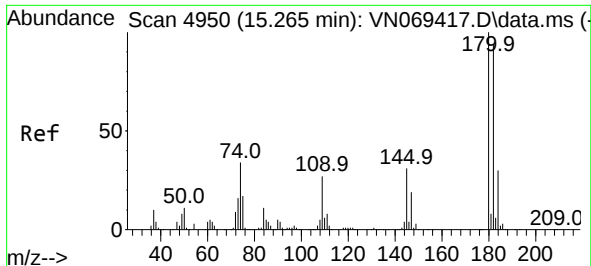
Tgt Ion: 75 Resp: 659669
Ion Ratio Lower Upper
75 100
77 1.0 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 75.429 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.107 min
Lab File: VN069722.D
Acq: 3 Dec 2021 16:55

Tgt Ion: 75 Resp: 659669
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#

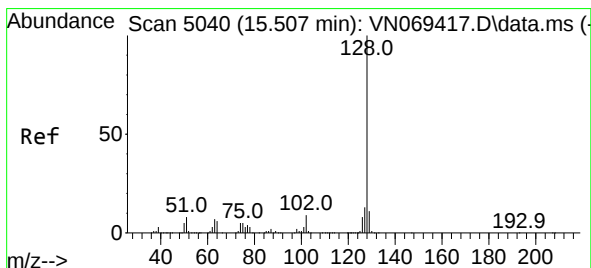
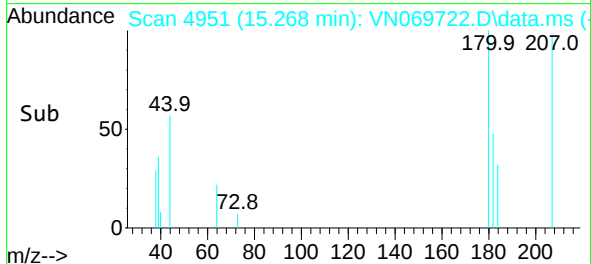
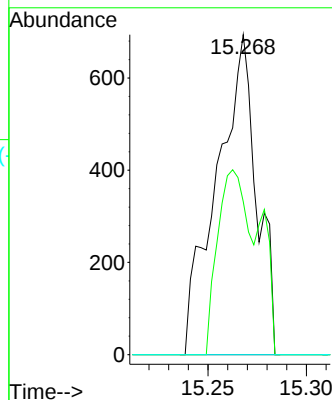
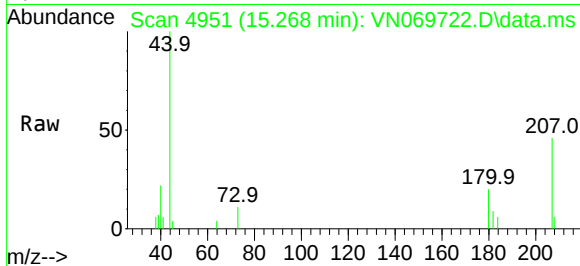




#93
1,2,4-Trichlorobenzene
Concen: 2.936 ug/l
RT: 15.268 min Scan# 4950
Delta R.T. 0.003 min
Lab File: VN069722.D
Acq: 3 Dec 2021 16:55

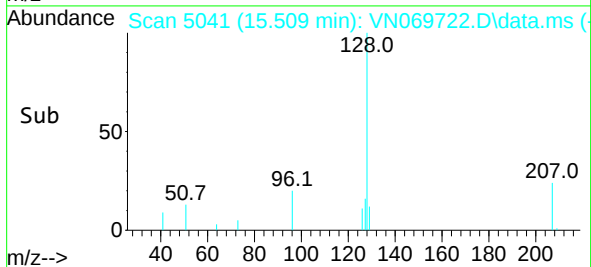
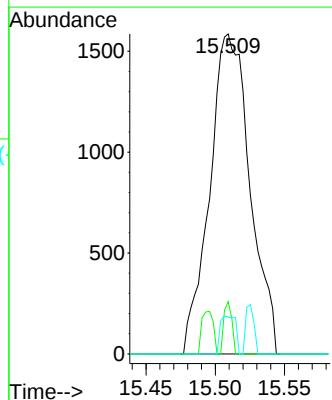
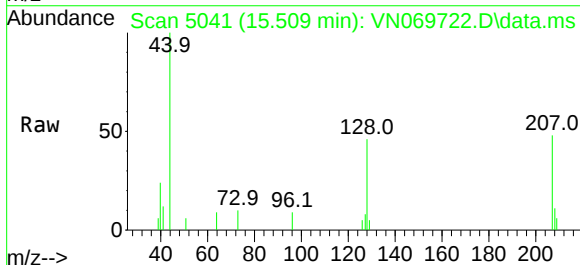
Instrument :
MSVOA_N
ClientSampleId :
RE131D1-20211130

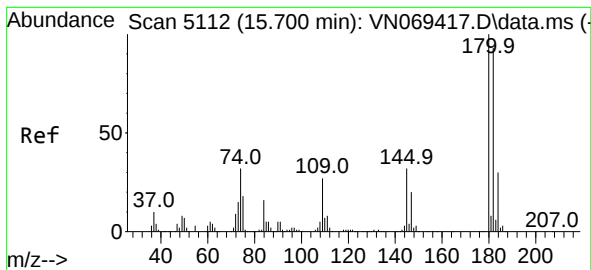
Tgt Ion:180 Resp: 978
Ion Ratio Lower Upper
180 100
182 45.1 48.3 144.9#
145 0.0 14.5 43.5#



#95
Naphthalene
Concen: 4.048 ug/l
RT: 15.509 min Scan# 5041
Delta R.T. 0.002 min
Lab File: VN069722.D
Acq: 3 Dec 2021 16:55

Tgt Ion:128 Resp: 3211
Ion Ratio Lower Upper
128 100
127 3.3 10.5 15.7#
129 4.5 8.7 13.1#





#96

1,2,3-Trichlorobenzene

Concen: 2.463 ug/l

RT: 15.694 min Scan# 51

Delta R.T. -0.008 min

Lab File: VN069722.D

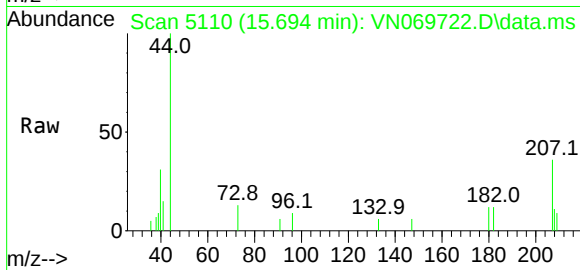
Acq: 3 Dec 2021 16:55

Instrument :

MSVOA_N

ClientSampleId :

RE131D1-20211130



Tgt Ion:180 Resp: 453

Ion Ratio Lower Upper

180 100

182 128.9 47.4 142.2

145 14.3 15.0 45.1#

