

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120921\
 Data File : VN069914.D
 Acq On : 9 Dec 2021 16:21
 Operator : JC/MD
 Sample : M4940-08
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-24

Quant Time: Dec 10 06:17:05 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)

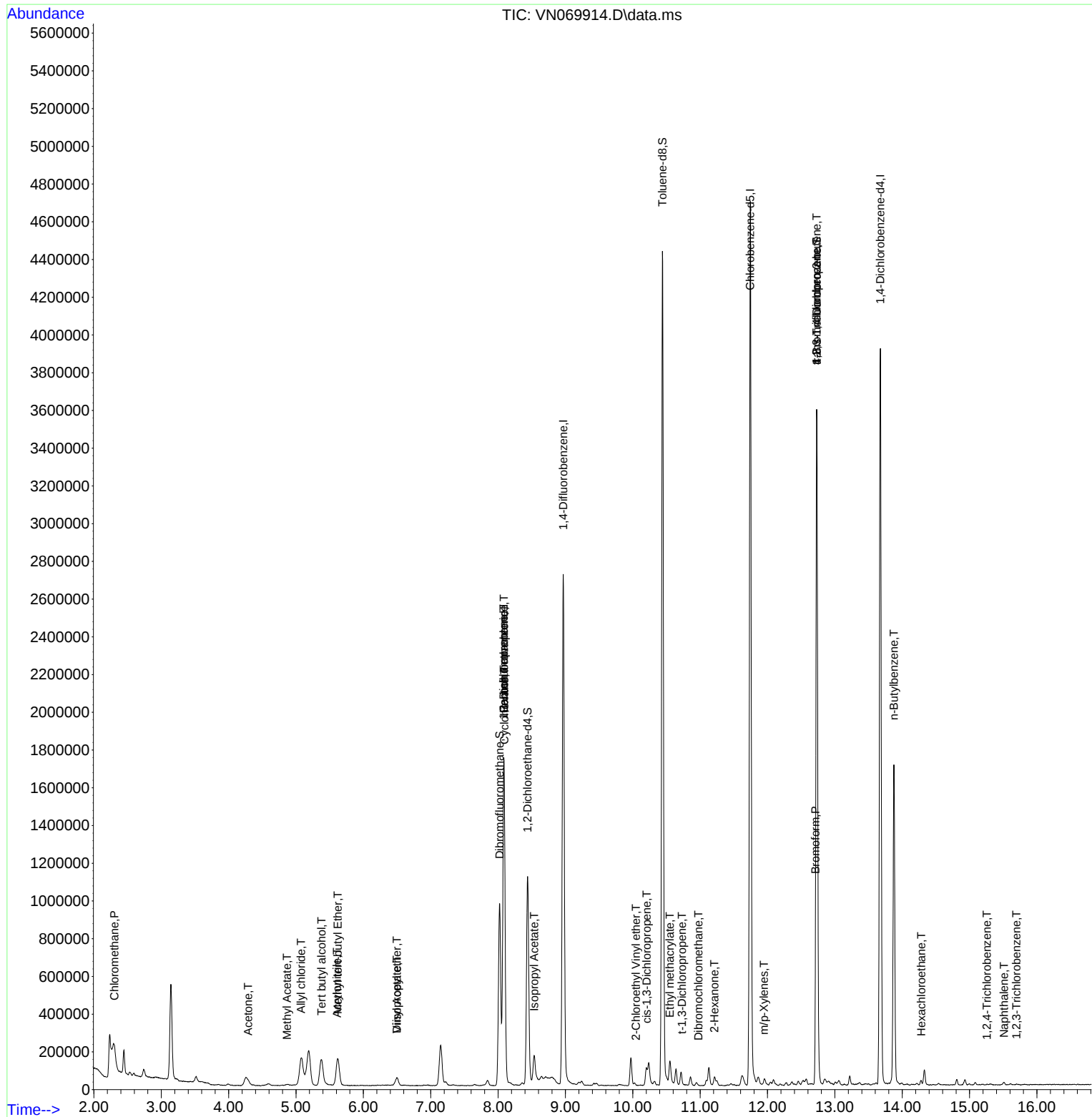
Internal Standards						
1) Pentafluorobenzene	8.086	168	1225781	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	2264210	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	2537913	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	1037491	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.437	65	967685	51.130	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 102.260%			
35) Dibromofluoromethane	8.021	113	705232	49.725	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 99.460%			
50) Toluene-d8	10.441	98	2962709	52.025	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 104.060%			
62) 4-Bromofluorobenzene	12.731	95	1236009	59.911	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 119.820%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.303	50	6197	0.346	ug/l #	80
11) Tert butyl alcohol	5.380	59	253991	70.997	ug/l	100
14) Allyl chloride	5.077	41	78665	2.990	ug/l #	43
15) Acrylonitrile	5.608	53	2270	0.235	ug/l #	44
16) Acetone	4.291	43	59157	5.196	ug/l #	85
18) Methyl Acetate	4.867	43	11101	0.323	ug/l #	56
19) Methyl tert-butyl Ether	5.618	73	96825	2.133	ug/l #	1
22) Diisopropyl ether	6.498	45	52255	1.016	ug/l	91
23) Vinyl Acetate	6.498	43	28164	0.673	ug/l #	72
31) Cyclohexane	8.094	56	98893	3.755	ug/l #	84
36) 1,1-Dichloropropene	8.083	75	104283	4.838	ug/l #	49
38) Carbon Tetrachloride	8.086	117	124961	5.912	ug/l #	16
43) Isopropyl Acetate	8.536	43	36677	0.773	ug/l #	55
53) t-1,3-Dichloropropene	10.730	75	49	2.796	ug/l #	88
54) cis-1,3-Dichloropropene	10.204	75	54	2.001	ug/l #	1
56) Ethyl methacrylate	10.548	69	19896	2.899	ug/l #	64
58) 2-Chloroethyl Vinyl ether	10.049	63	101	18.400	ug/l #	45
59) 2-Hexanone	11.210	43	10703	0.459	ug/l	73
60) Dibromochloromethane	10.974	129	24	2.378	ug/l #	11
68) m/p-Xylenes	11.948	106	9328	0.274	ug/l	100
71) Bromoform	12.712	173	771	2.778	ug/l #	1
76) 1,2,3-Trichloropropane	12.731	75	697356	23.438	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	697356	74.541	ug/l #	5
89) n-Butylbenzene	13.876	91	154507	2.731	ug/l #	43
90) Hexachloroethane	14.281	117	10460	0.854	ug/l #	6
93) 1,2,4-Trichlorobenzene	15.257	180	1021	2.934	ug/l	75
95) Naphthalene	15.509	128	11491	4.194	ug/l	98
96) 1,2,3-Trichlorobenzene	15.697	180	1116	2.500	ug/l	89

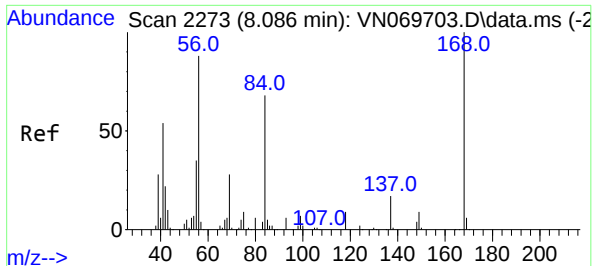
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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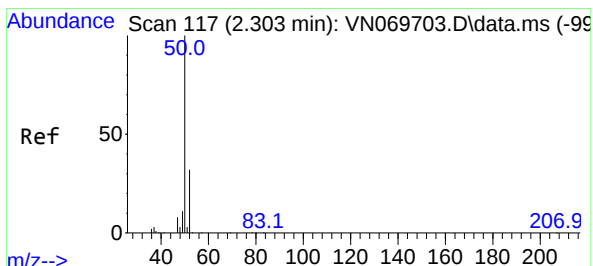
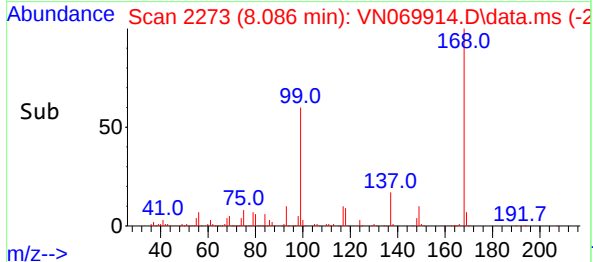
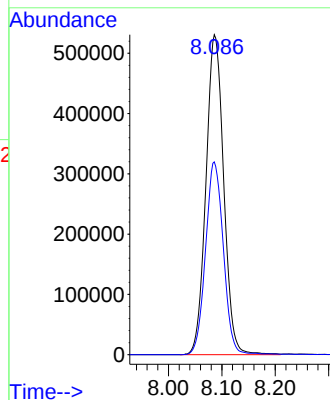
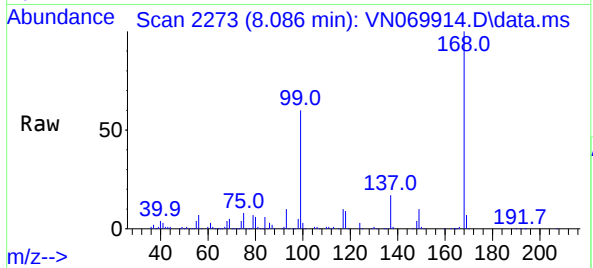




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN069914.D
Acq: 9 Dec 2021 16:21

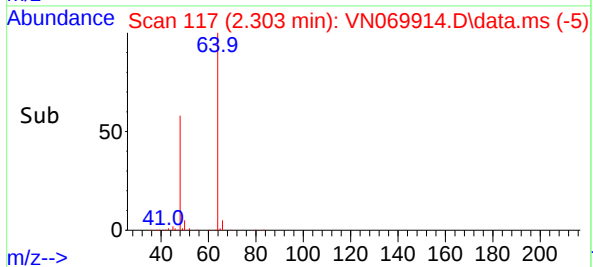
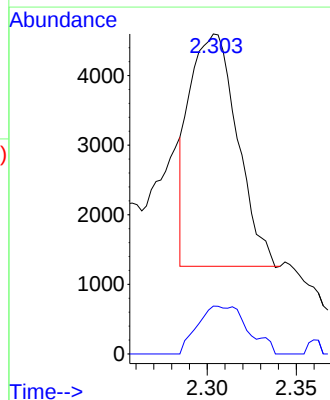
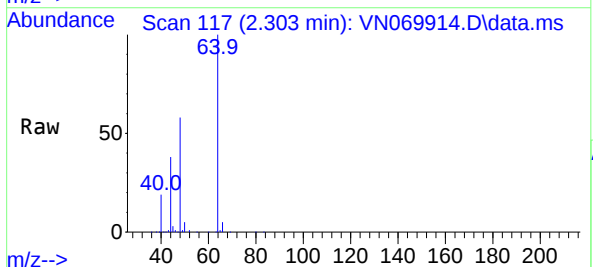
Instrument :
MSVOA_N
ClientSampleId :
MW-24

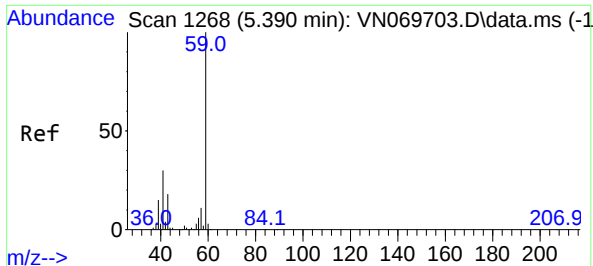
Tgt Ion:168 Resp: 1225781
Ion Ratio Lower Upper
168 100
99 60.3 41.3 61.9



#3
Chloromethane
Concen: 0.346 ug/l
RT: 2.303 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN069914.D
Acq: 9 Dec 2021 16:21

Tgt Ion: 50 Resp: 6197
Ion Ratio Lower Upper
50 100
52 20.6 25.4 38.0#

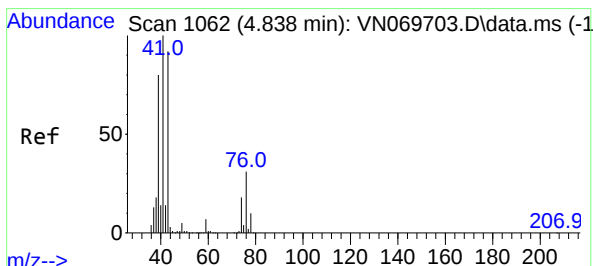
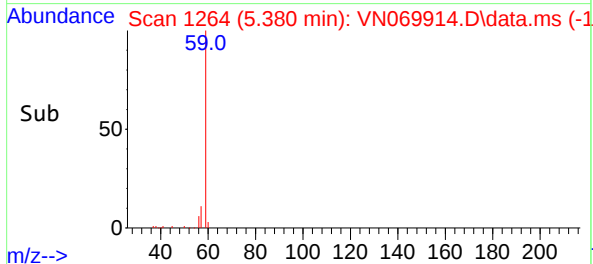
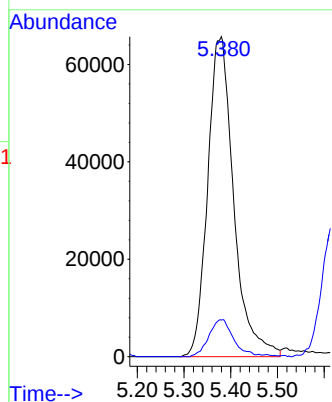
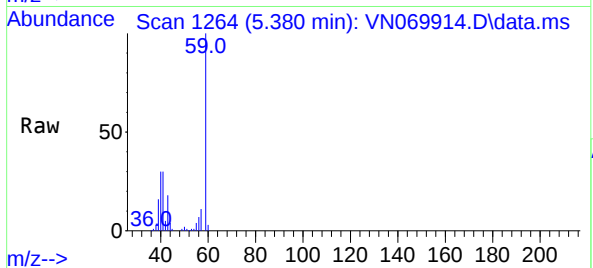




#11
Tert butyl alcohol
Concen: 70.997 ug/l
RT: 5.380 min Scan# 1151
Delta R.T. -0.010 min
Lab File: VN069914.D
Acq: 9 Dec 2021 16:21

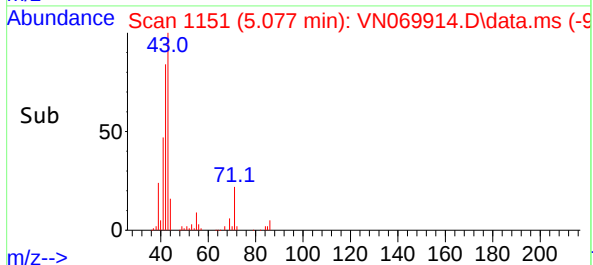
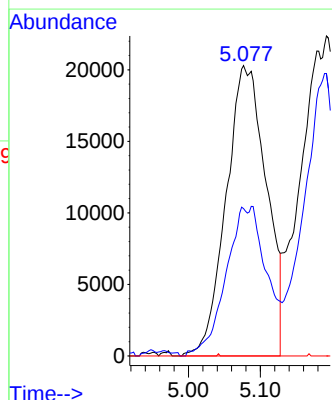
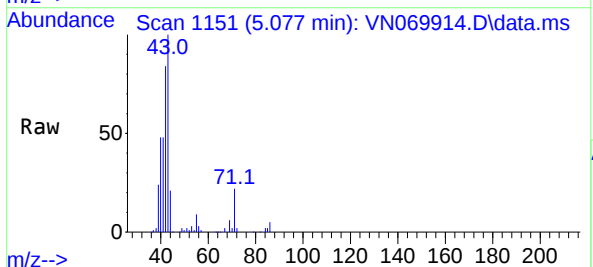
Instrument :
MSVOA_N
ClientSampleId :
MW-24

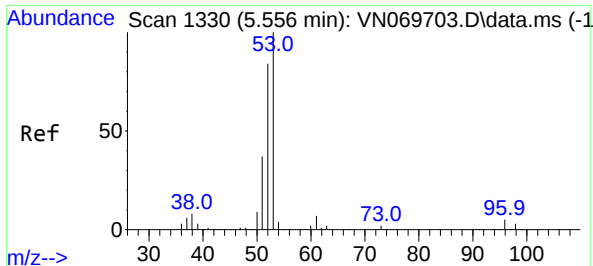
Tgt Ion: 59 Resp: 253991
Ion Ratio Lower Upper
59 100
57 10.9 8.7 13.1



#14
Allyl chloride
Concen: 2.990 ug/l
RT: 5.077 min Scan# 1151
Delta R.T. 0.239 min
Lab File: VN069914.D
Acq: 9 Dec 2021 16:21

Tgt Ion: 41 Resp: 78665
Ion Ratio Lower Upper
41 100
39 28.1 61.2 91.8#
76 0.0 26.0 39.0#

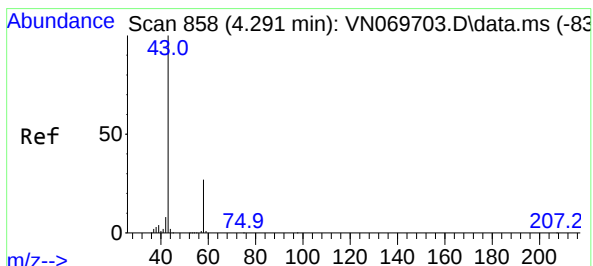
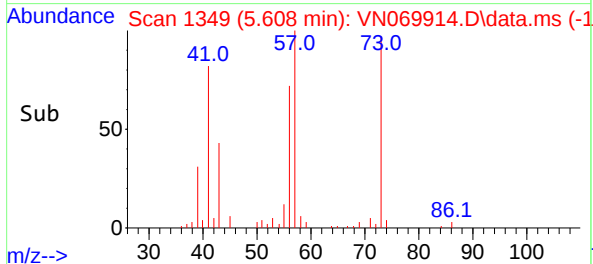
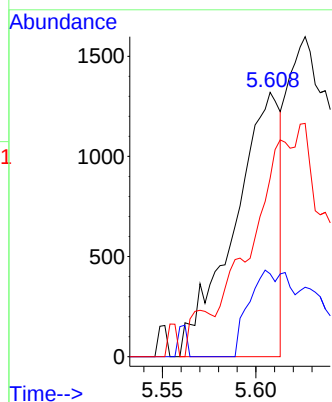
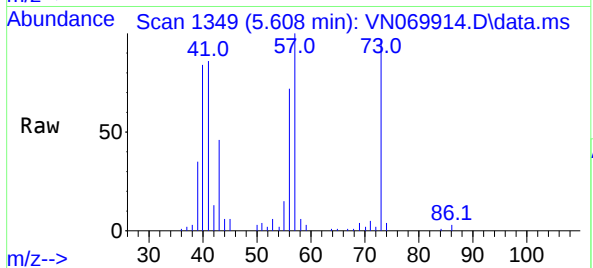




#15
Acrylonitrile
Concen: 0.235 ug/l
RT: 5.608 min Scan# 11
Delta R.T. 0.051 min
Lab File: VN069914.D
Acq: 9 Dec 2021 16:21

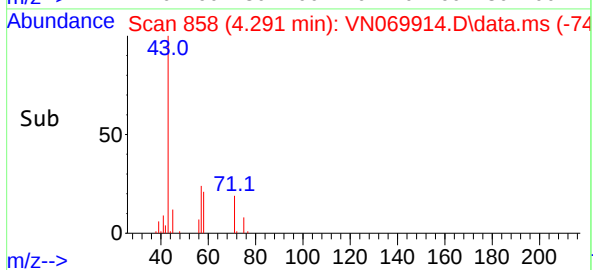
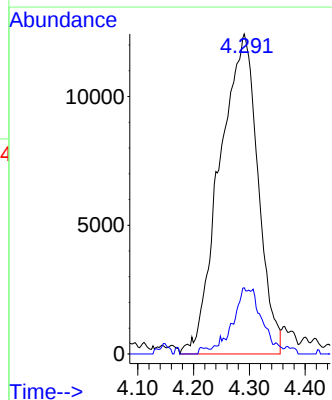
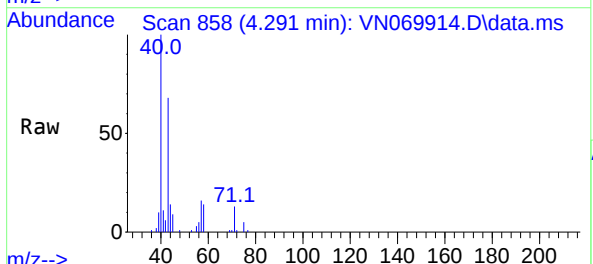
Instrument :
MSVOA_N
ClientSampleId :
MW-24

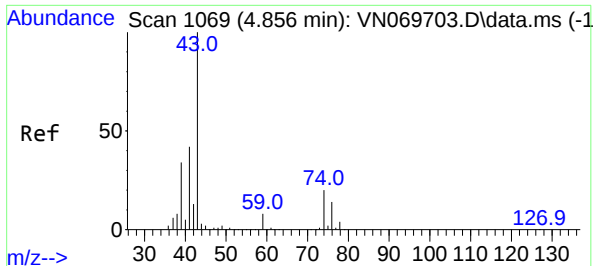
Tgt Ion: 53 Resp: 2270
Ion Ratio Lower Upper
53 100
52 18.9 66.2 99.2#
51 50.7 29.6 44.4#



#16
Acetone
Concen: 5.196 ug/l
RT: 4.291 min Scan# 858
Delta R.T. 0.000 min
Lab File: VN069914.D
Acq: 9 Dec 2021 16:21

Tgt Ion: 43 Resp: 59157
Ion Ratio Lower Upper
43 100
58 20.7 23.1 34.7#





#18

Methyl Acetate

Concen: 0.323 ug/l

RT: 4.867 min Scan# 11101

Delta R.T. 0.011 min

Lab File: VN069914.D

Acq: 9 Dec 2021 16:21

Instrument :

MSVOA_N

ClientSampleId :

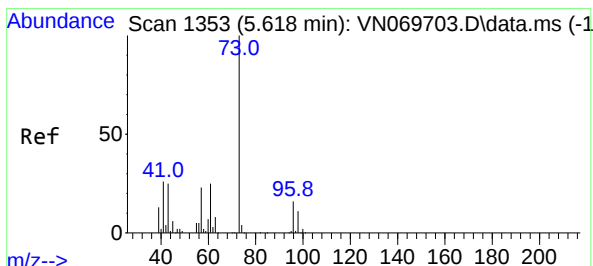
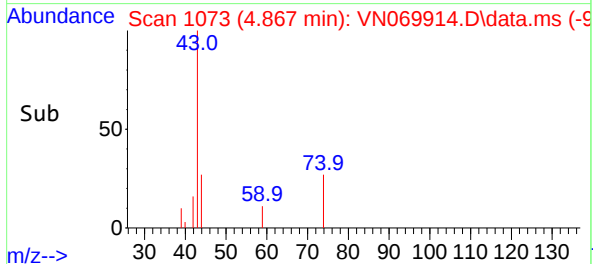
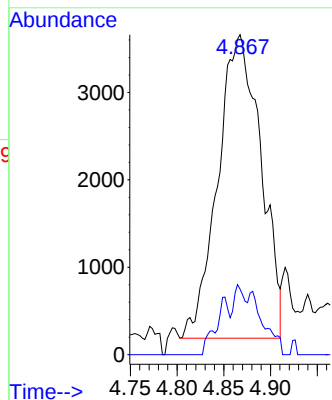
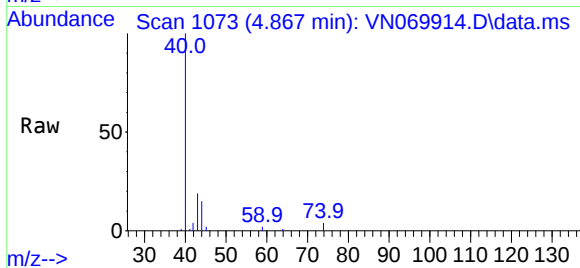
MW-24

Tgt Ion: 43 Resp: 11101

Ion Ratio Lower Upper

43 100

74 2.7 19.4 29.2#



#19

Methyl tert-butyl Ether

Concen: 2.133 ug/l

RT: 5.618 min Scan# 1353

Delta R.T. 0.000 min

Lab File: VN069914.D

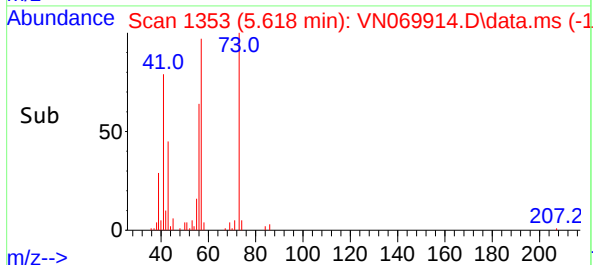
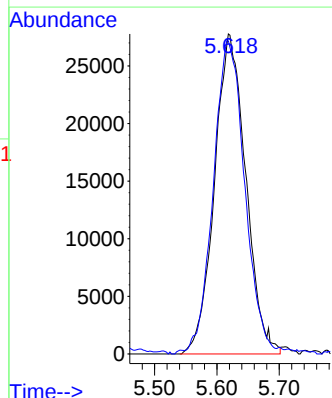
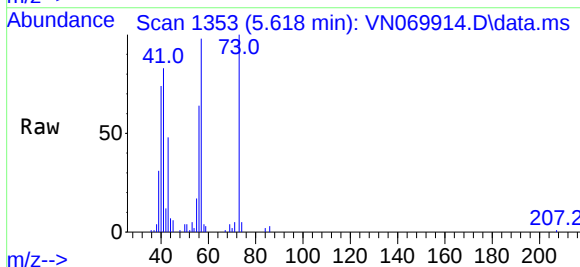
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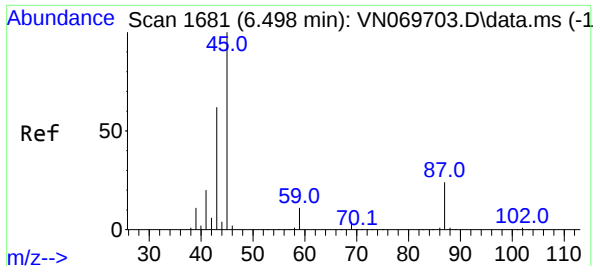
Tgt Ion: 73 Resp: 96825

Ion Ratio Lower Upper

73 100

57 96.7 16.8 25.2#

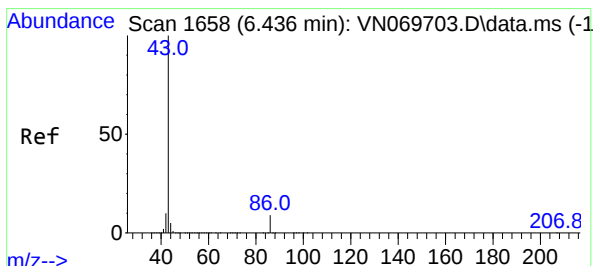
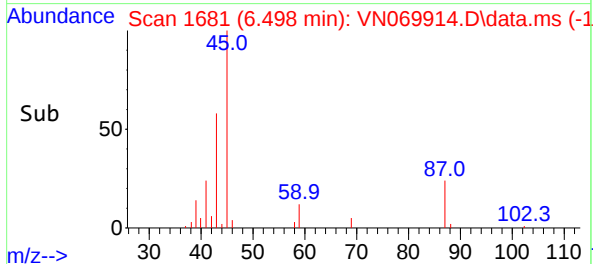
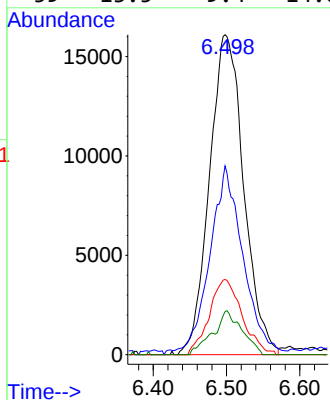
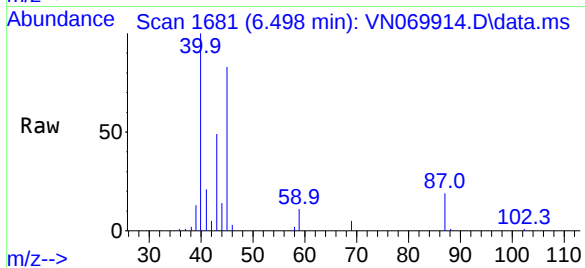




#22
Diisopropyl ether
Concen: 1.016 ug/l
RT: 6.498 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VN069914.D
Acq: 9 Dec 2021 16:21

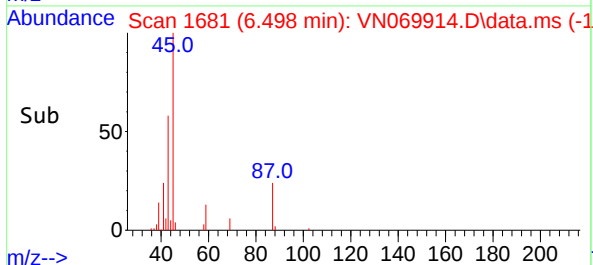
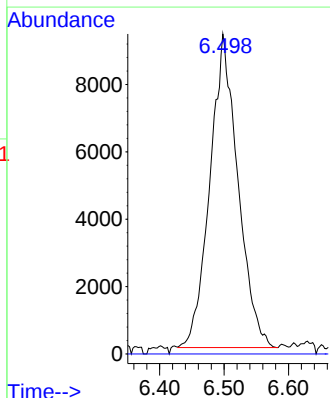
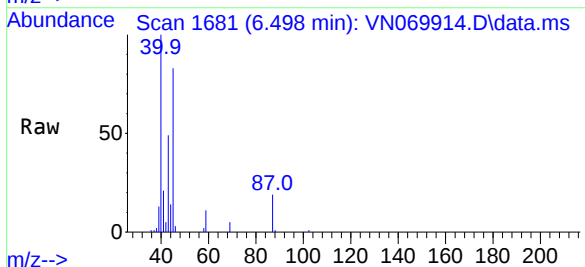
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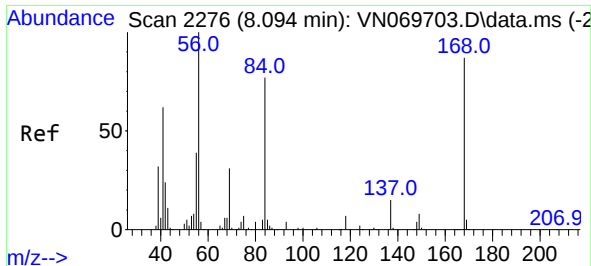
Tgt Ion:	45	Resp:	52255
Ion	Ratio	Lower	Upper
45	100		
43	57.2	51.7	77.5
87	23.5	23.2	34.8
59	13.5	9.4	14.0



#23
Vinyl Acetate
Concen: 0.673 ug/l
RT: 6.498 min Scan# 1681
Delta R.T. 0.062 min
Lab File: VN069914.D
Acq: 9 Dec 2021 16:21

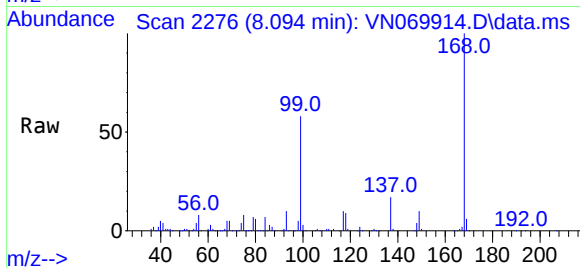
Tgt Ion:	43	Resp:	28164
Ion	Ratio	Lower	Upper
43	100		
86	0.0	8.5	12.7#



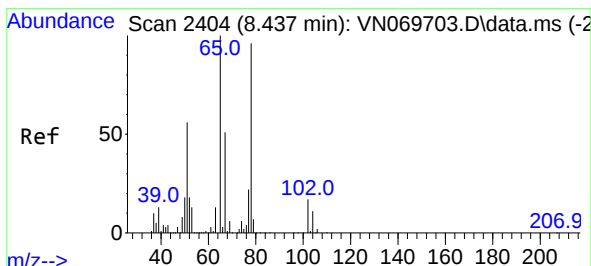
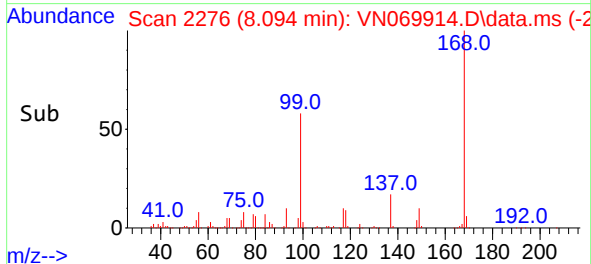
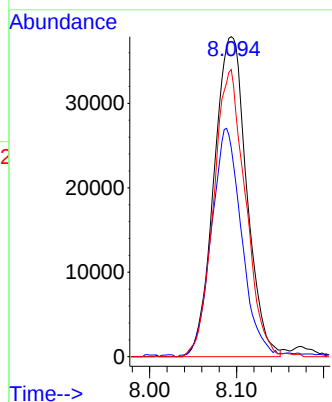


#31
Cyclohexane
Concen: 3.755 ug/l
RT: 8.094 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN069914.D
Acq: 9 Dec 2021 16:21

Instrument :
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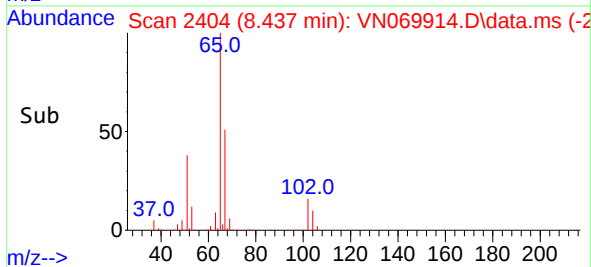
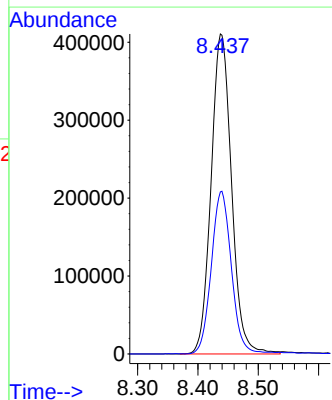
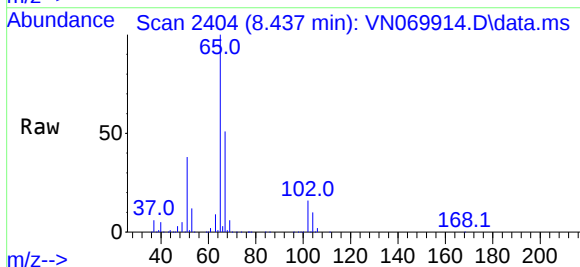


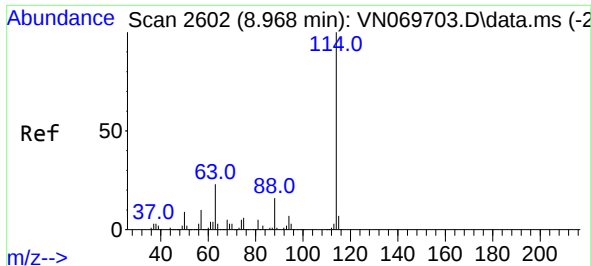
Tgt Ion: 56 Resp: 98893
Ion Ratio Lower Upper
56 100
69 64.9 27.1 40.7#
84 89.7 73.4 110.0



#33
1,2-Dichloroethane-d4
Concen: 51.130 ug/l
RT: 8.437 min Scan# 2404
Delta R.T. 0.000 min
Lab File: VN069914.D
Acq: 9 Dec 2021 16:21

Tgt Ion: 65 Resp: 967685
Ion Ratio Lower Upper
65 100
67 49.7 0.0 103.0

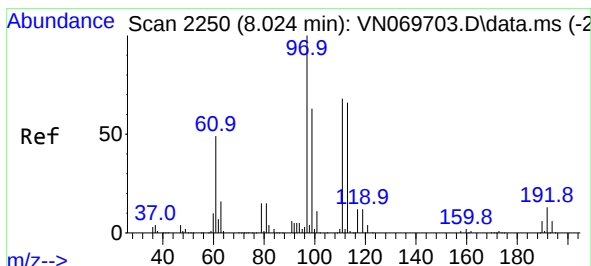
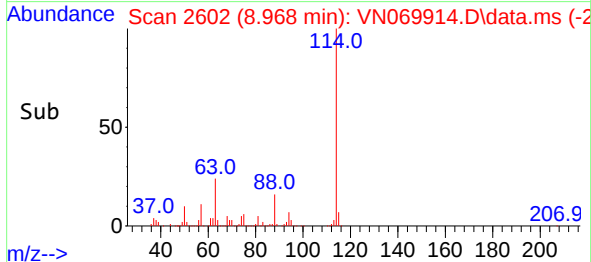
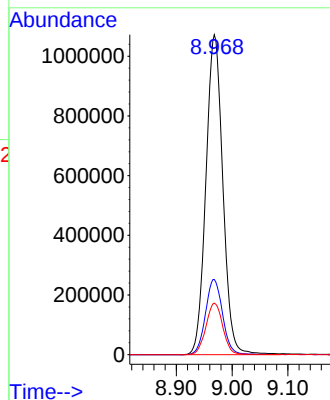
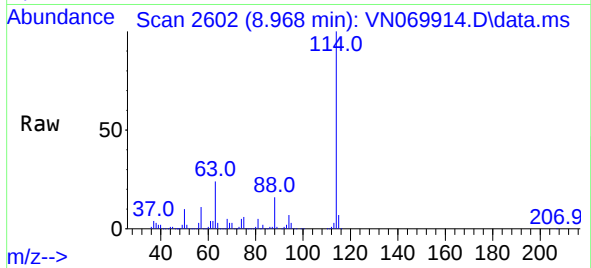




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.968 min Scan# 210
Delta R.T. 0.000 min
Lab File: VN069914.D
Acq: 9 Dec 2021 16:21

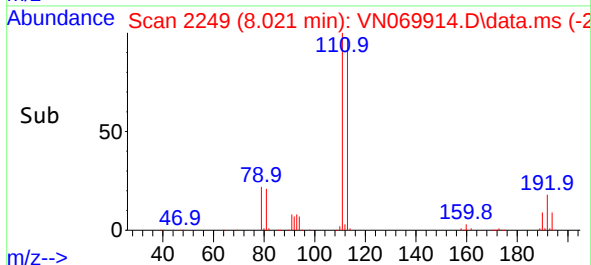
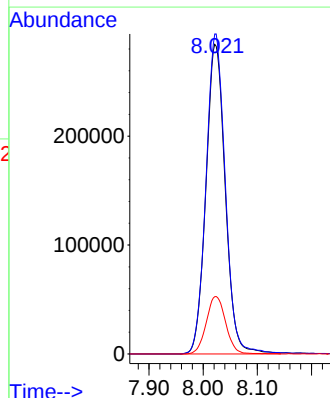
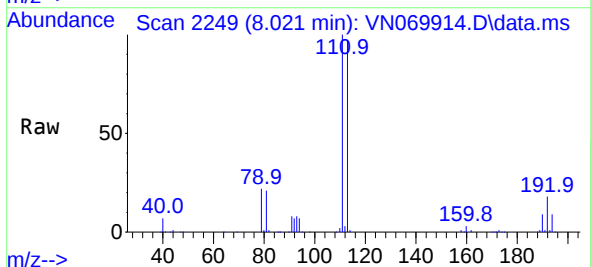
Instrument :
MSVOA_N
ClientSampleId :
MW-24

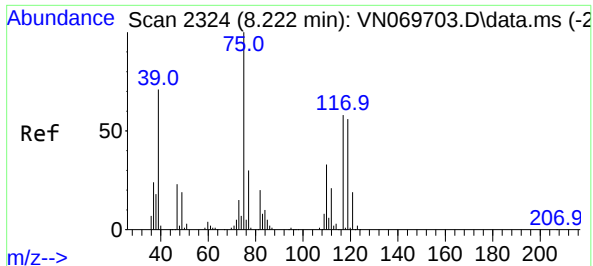
Tgt Ion:114 Resp: 2264210
Ion Ratio Lower Upper
114 100
63 23.5 0.0 37.8
88 16.1 0.0 27.4



#35
Dibromofluoromethane
Concen: 49.725 ug/l
RT: 8.021 min Scan# 2249
Delta R.T. -0.002 min
Lab File: VN069914.D
Acq: 9 Dec 2021 16:21

Tgt Ion:113 Resp: 705232
Ion Ratio Lower Upper
113 100
111 103.2 82.2 123.2
192 18.6 16.9 25.3





#36

1,1-Dichloropropene

Concen: 4.838 ug/l

RT: 8.083 min Scan# 21

Delta R.T. -0.139 min

Lab File: VN069914.D

Acq: 9 Dec 2021 16:21

Instrument :

MSVOA_N

ClientSampleId :

MW-24

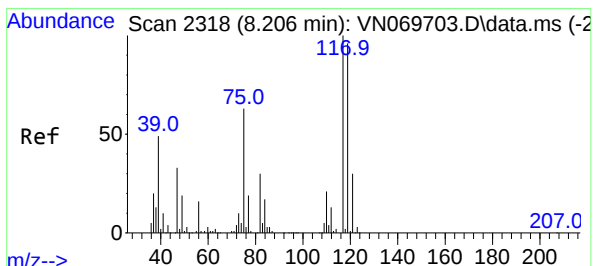
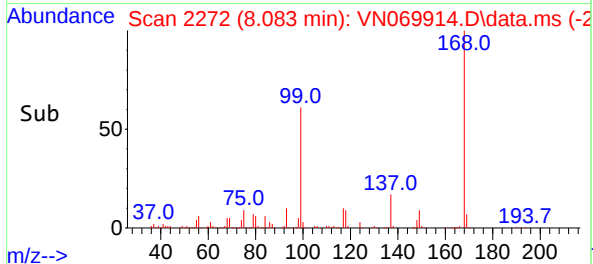
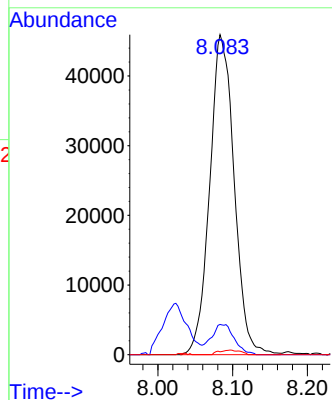
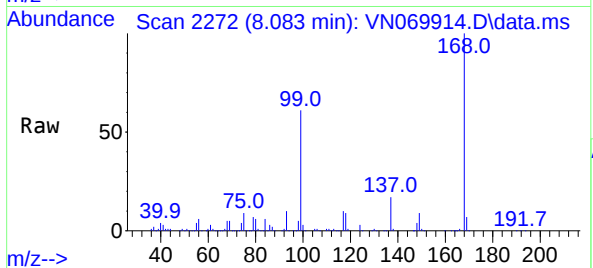
Tgt Ion: 75 Resp: 104283

Ion Ratio Lower Upper

75 100

110 9.0 18.4 55.2#

77 0.3 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 5.912 ug/l

RT: 8.086 min Scan# 2273

Delta R.T. -0.120 min

Lab File: VN069914.D

Acq: 9 Dec 2021 16:21

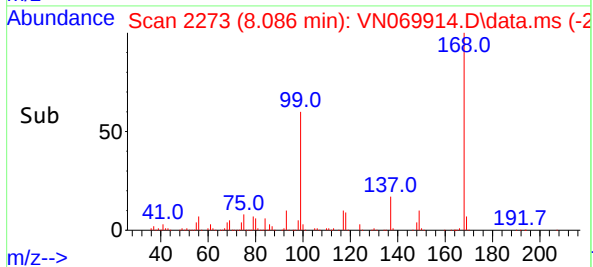
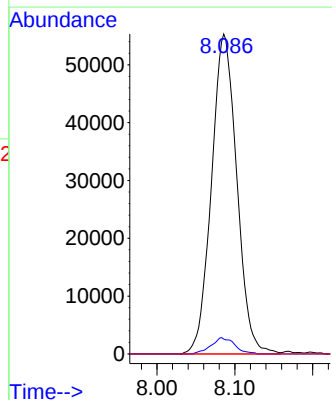
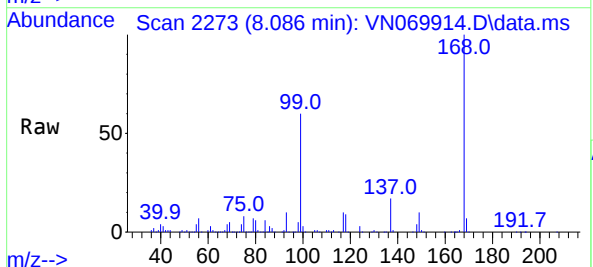
Tgt Ion: 117 Resp: 124961

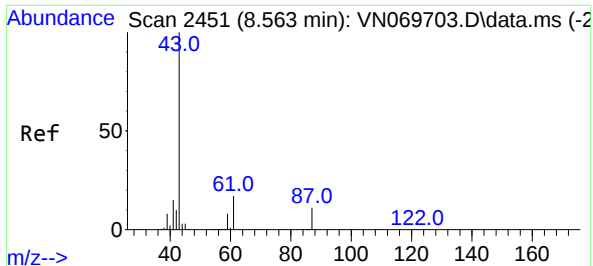
Ion Ratio Lower Upper

117 100

119 4.6 76.1 114.1#

121 0.0 24.2 36.2#

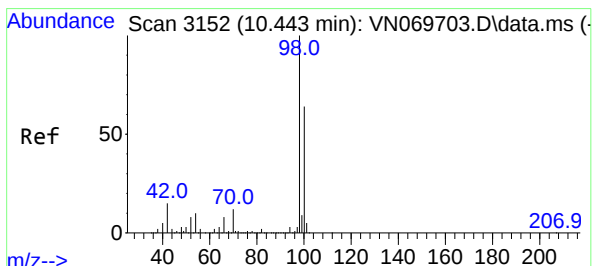
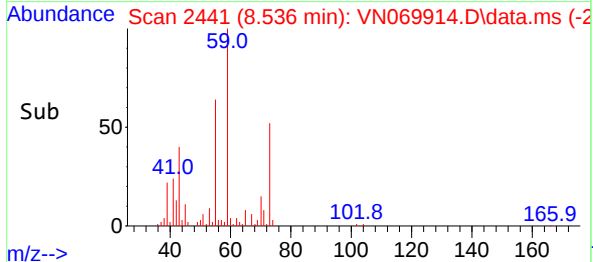
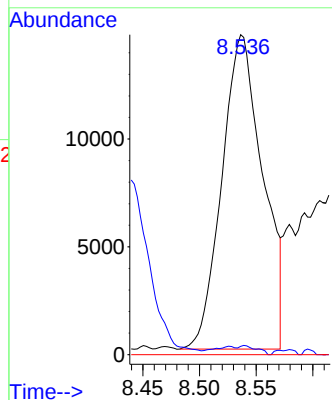
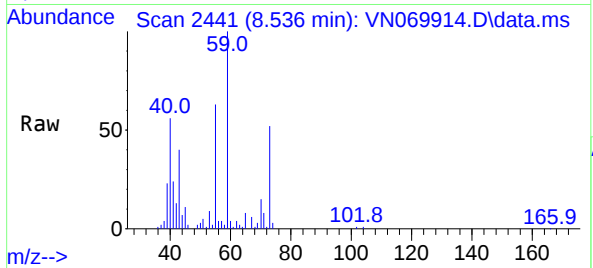




#43
Isopropyl Acetate
Concen: 0.773 ug/l
RT: 8.536 min Scan# 2441
Delta R.T. -0.027 min
Lab File: VN069914.D
Acq: 9 Dec 2021 16:21

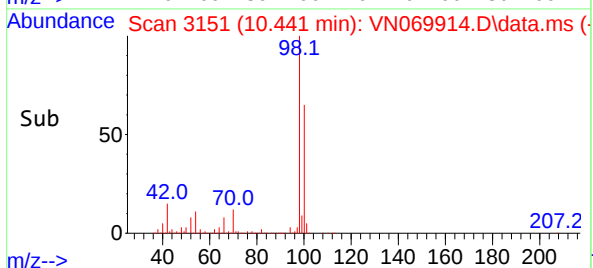
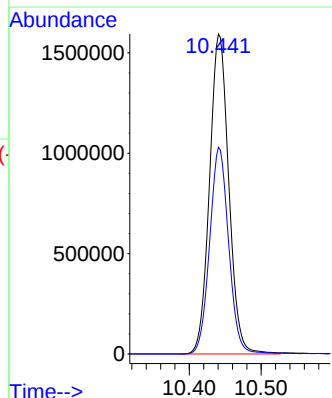
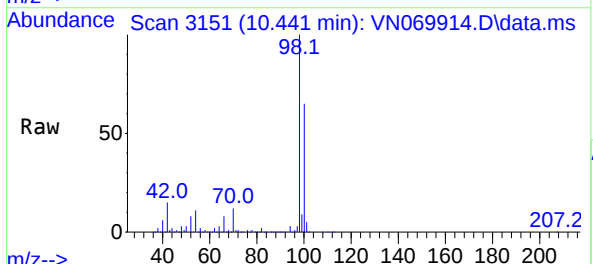
Instrument :
MSVOA_N
ClientSampleId :
MW-24

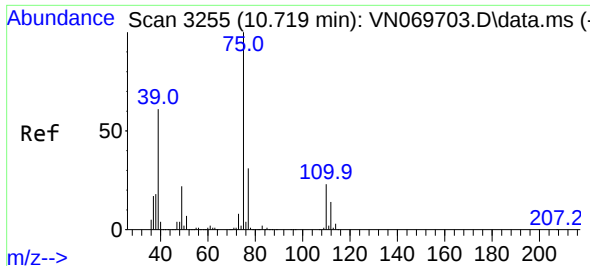
Tgt Ion: 43 Resp: 36677
Ion Ratio Lower Upper
43 100
61 0.0 20.4 30.6#
87 0.0 11.2 16.8#



#50
Toluene-d8
Concen: 52.025 ug/l
RT: 10.441 min Scan# 3151
Delta R.T. -0.002 min
Lab File: VN069914.D
Acq: 9 Dec 2021 16:21

Tgt Ion: 98 Resp: 2962709
Ion Ratio Lower Upper
98 100
100 64.0 50.4 75.6

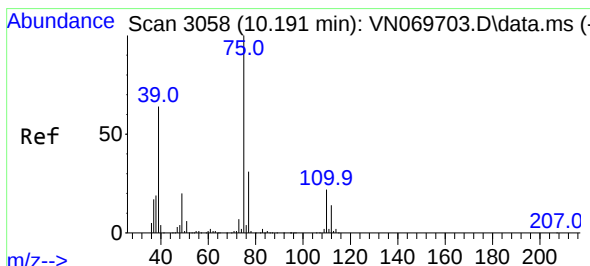
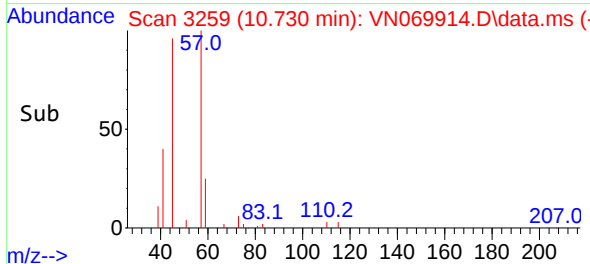
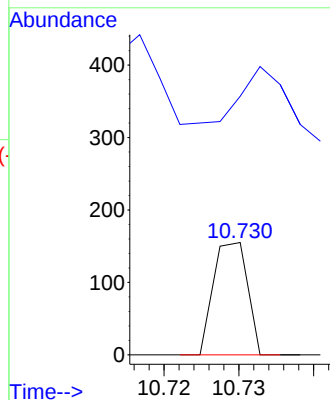
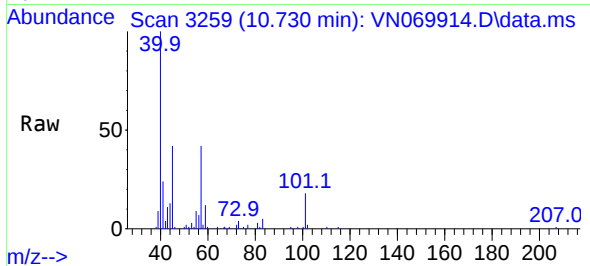




#53
t-1,3-Dichloropropene
Concen: 2.796 ug/l
RT: 10.730 min Scan# 31
Delta R.T. 0.011 min
Lab File: VN069914.D
Acq: 9 Dec 2021 16:21

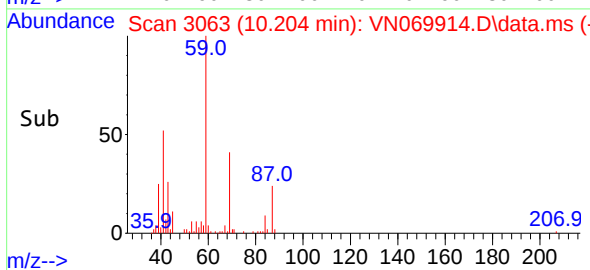
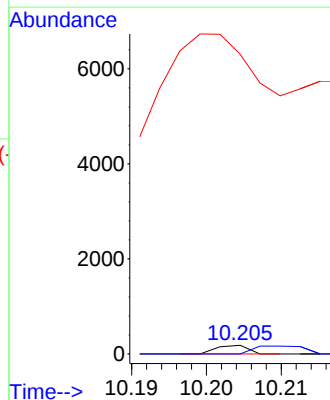
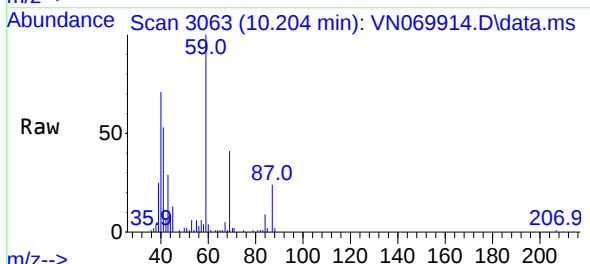
Instrument :
MSVOA_N
ClientSampleId :
MW-24

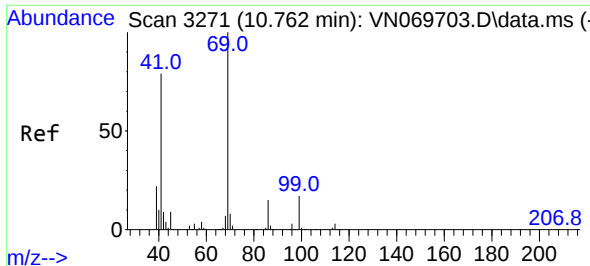
Tgt Ion: 75 Resp: 49
Ion Ratio Lower Upper
75 100
77 25.2 25.6 38.4#



#54
cis-1,3-Dichloropropene
Concen: 2.001 ug/l
RT: 10.204 min Scan# 3063
Delta R.T. 0.013 min
Lab File: VN069914.D
Acq: 9 Dec 2021 16:21

Tgt Ion: 75 Resp: 54
Ion Ratio Lower Upper
75 100
77 0.0 26.4 39.6#
39 479.2 42.5 63.7#

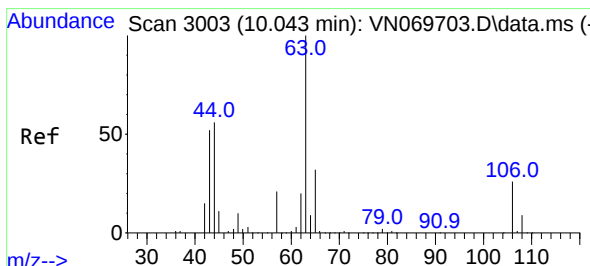
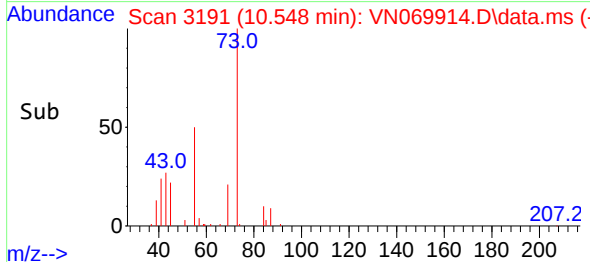
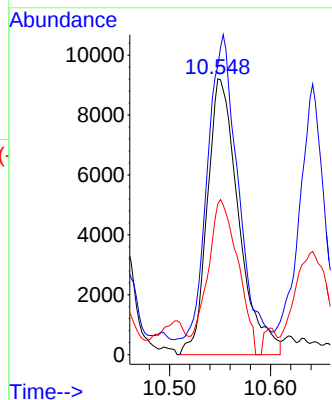
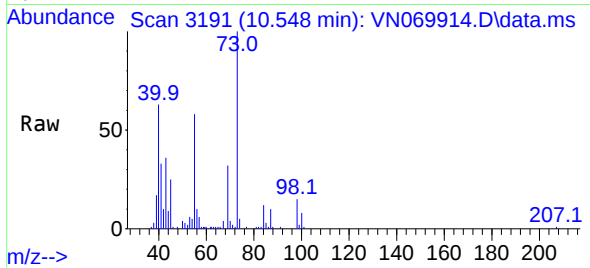




#56
Ethyl methacrylate
Concen: 2.899 ug/l
RT: 10.548 min Scan# 3191
Delta R.T. -0.214 min
Lab File: VN069914.D
Acq: 9 Dec 2021 16:21

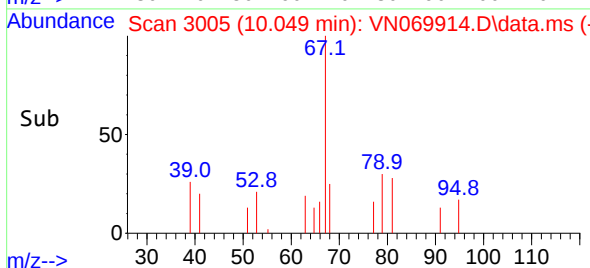
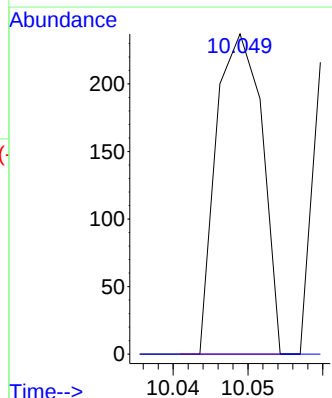
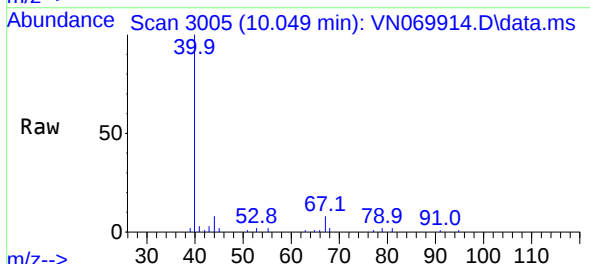
Instrument :
MSVOA_N
ClientSampleId :
MW-24

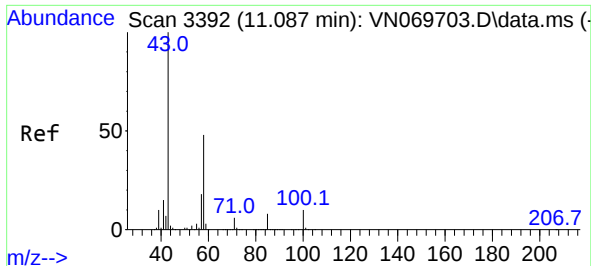
Tgt Ion: 69 Resp: 19896
Ion Ratio Lower Upper
69 100
41 103.0 51.4 77.0#
39 54.2 34.6 52.0#



#58
2-Chloroethyl Vinyl ether
Concen: 18.400 ug/l
RT: 10.049 min Scan# 3005
Delta R.T. 0.006 min
Lab File: VN069914.D
Acq: 9 Dec 2021 16:21

Tgt Ion: 63 Resp: 101
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#

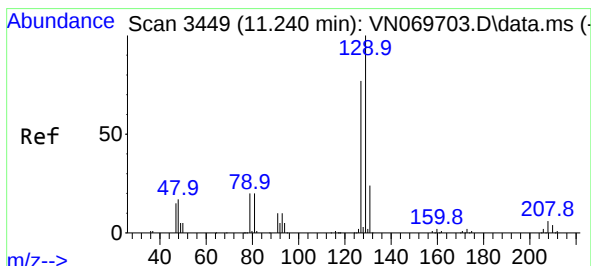
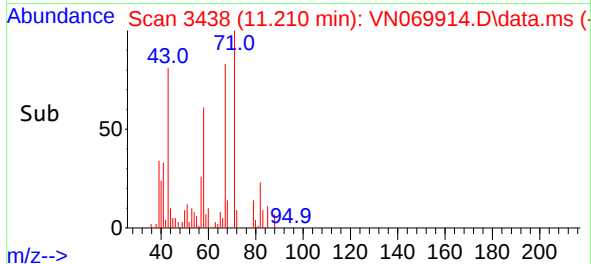
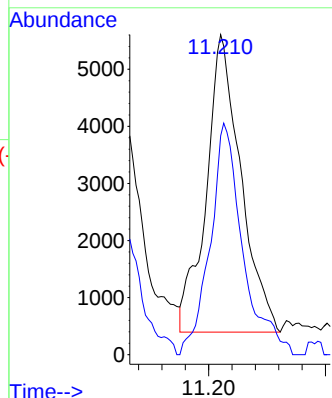
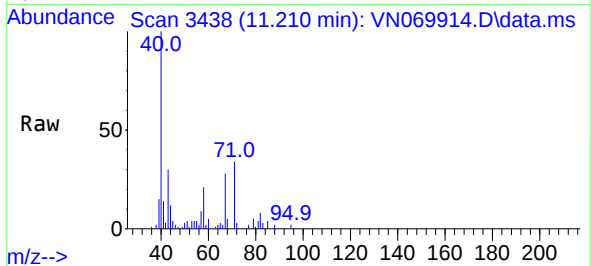




#59
2-Hexanone
Concen: 0.459 ug/l
RT: 11.210 min Scan# 34
Delta R.T. 0.123 min
Lab File: VN069914.D
Acq: 9 Dec 2021 16:21

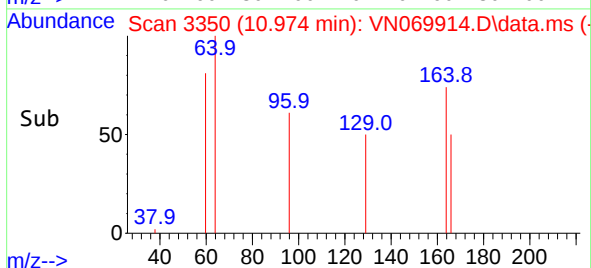
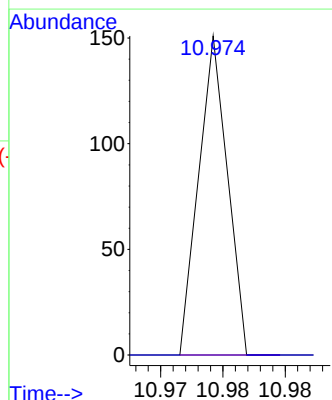
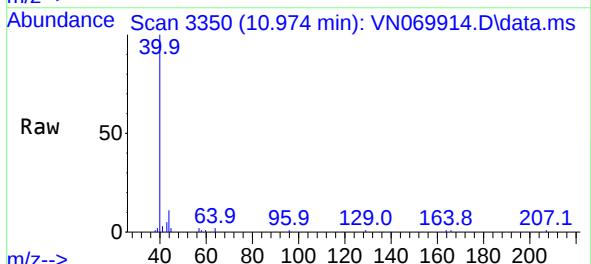
Instrument :
MSVOA_N
ClientSampleId :
MW-24

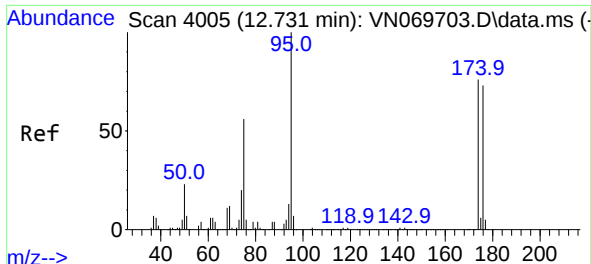
Tgt Ion: 43 Resp: 10703
Ion Ratio Lower Upper
43 100
58 73.4 26.9 80.7



#60
Dibromochloromethane
Concen: 2.378 ug/l
RT: 10.974 min Scan# 3350
Delta R.T. -0.266 min
Lab File: VN069914.D
Acq: 9 Dec 2021 16:21

Tgt Ion: 129 Resp: 24
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#

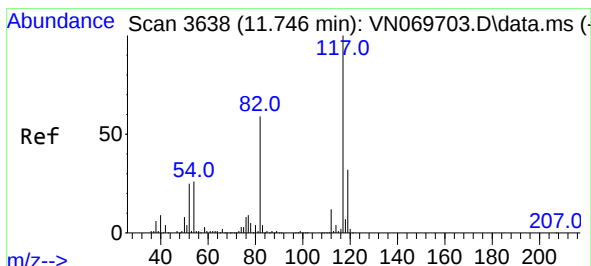
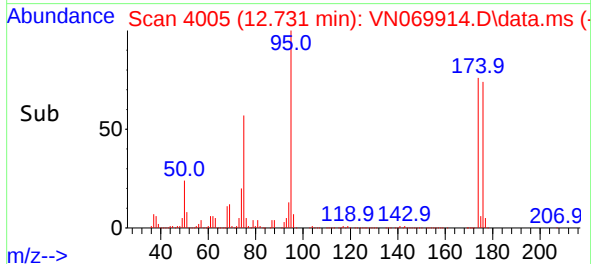
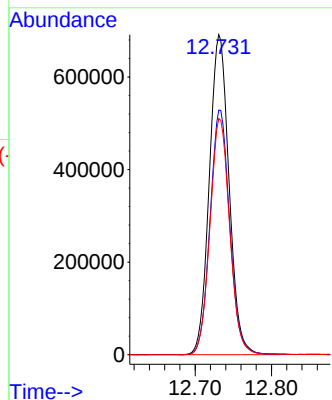
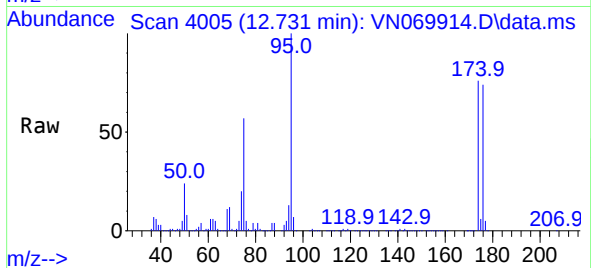




#62
4-Bromofluorobenzene
Concen: 59.911 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN069914.D
Acq: 9 Dec 2021 16:21

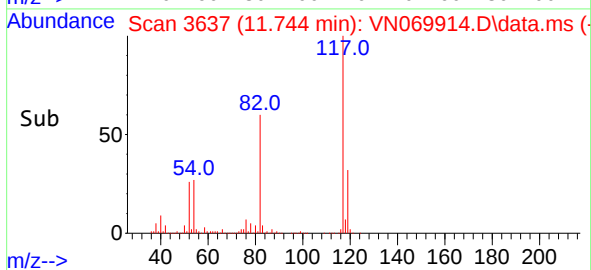
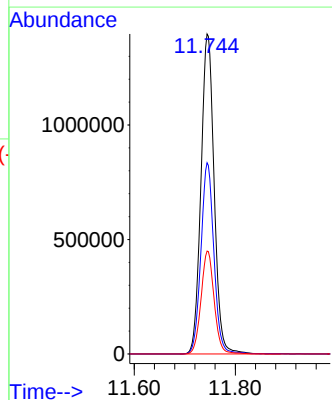
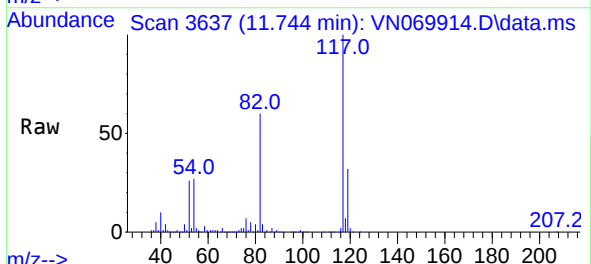
Instrument :
MSVOA_N
ClientSampleId :
MW-24

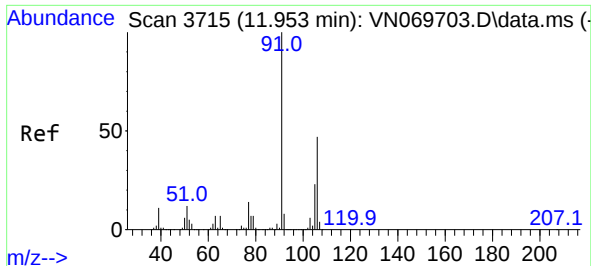
Tgt Ion: 95 Resp: 1236009
Ion Ratio Lower Upper
95 100
174 76.5 0.0 187.2
176 73.7 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.744 min Scan# 3637
Delta R.T. -0.002 min
Lab File: VN069914.D
Acq: 9 Dec 2021 16:21

Tgt Ion: 117 Resp: 2537913
Ion Ratio Lower Upper
117 100
82 59.7 42.4 63.6
119 32.2 25.4 38.2

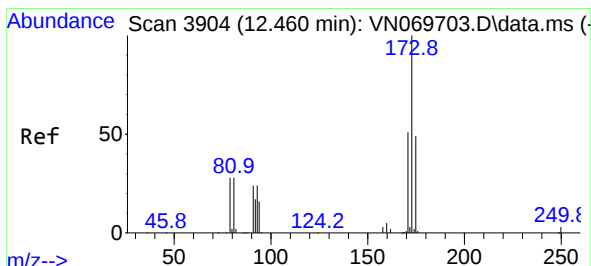
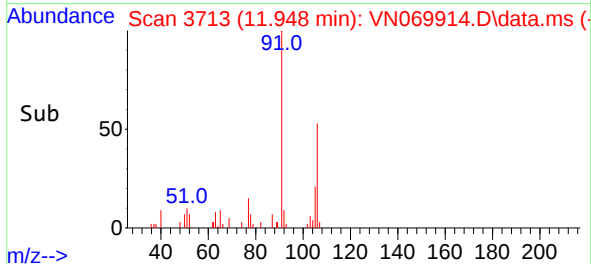
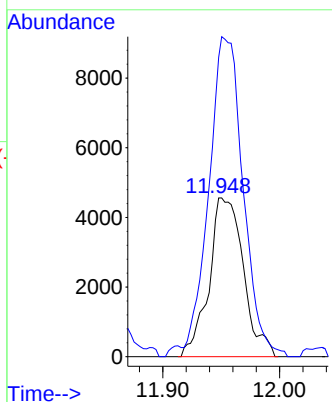
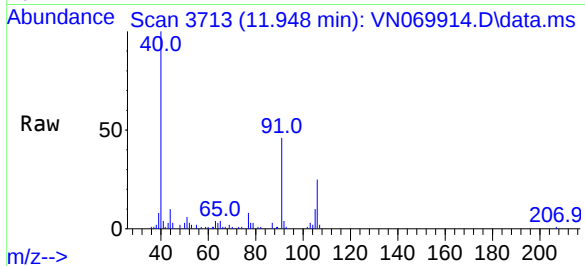




#68
m/p-Xylenes
Concen: 0.274 ug/l
RT: 11.948 min Scan# 31
Delta R.T. -0.005 min
Lab File: VN069914.D
Acq: 9 Dec 2021 16:21

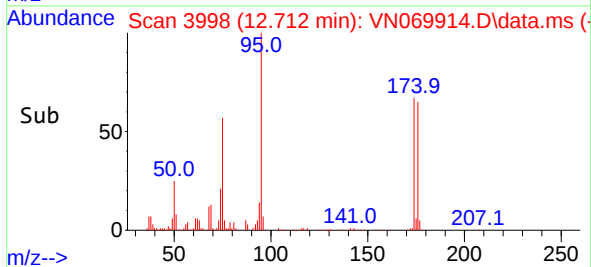
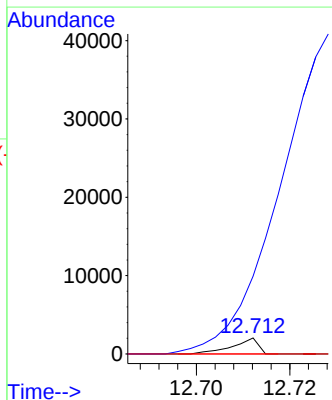
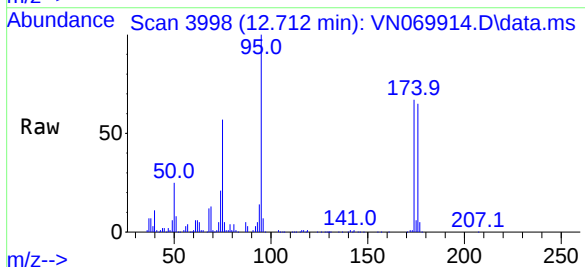
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MSVOA_N
ClientSampleId :
MW-24

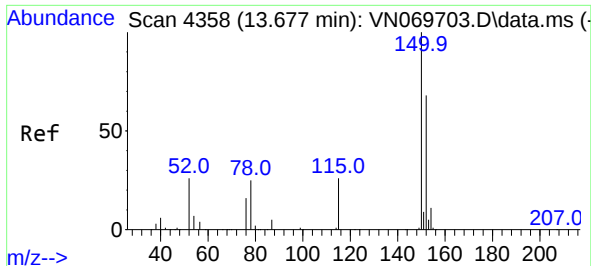
Tgt Ion:106 Resp: 9328
Ion Ratio Lower Upper
106 100
91 201.1 160.6 240.8



#71
Bromoform
Concen: 2.778 ug/l
RT: 12.712 min Scan# 3998
Delta R.T. 0.252 min
Lab File: VN069914.D
Acq: 9 Dec 2021 16:21

Tgt Ion:173 Resp: 771
Ion Ratio Lower Upper
173 100
175 9144.1 24.2 72.6#
254 0.0 0.0 0.0

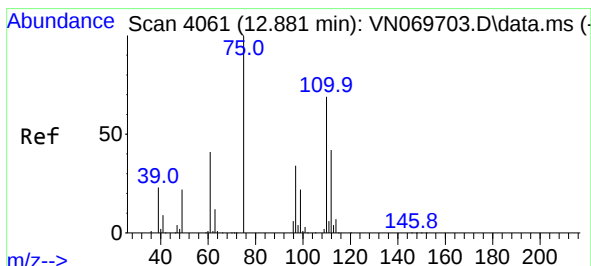
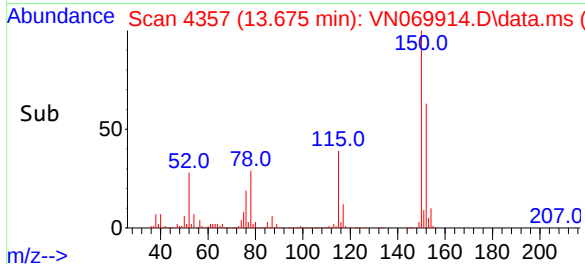
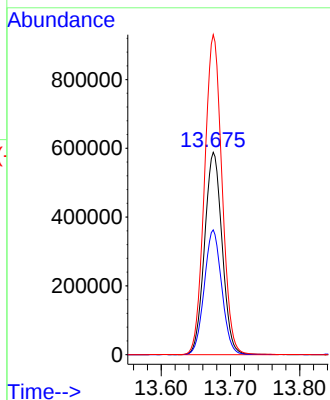
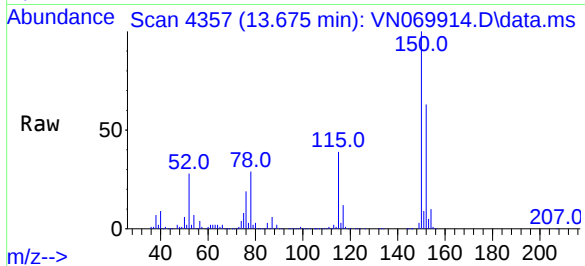




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.675 min Scan# 41
Delta R.T. -0.002 min
Lab File: VN069914.D
Acq: 9 Dec 2021 16:21

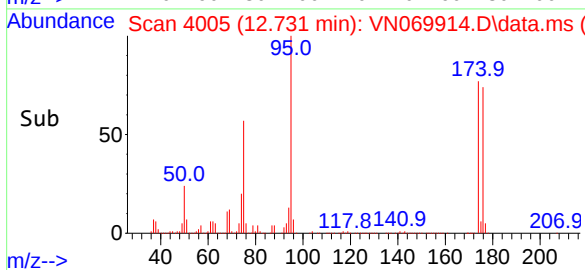
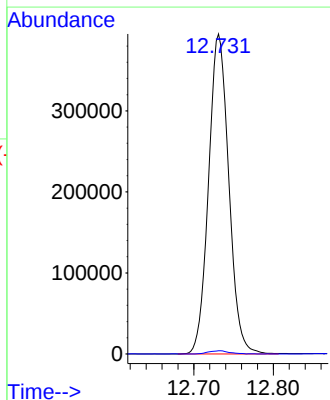
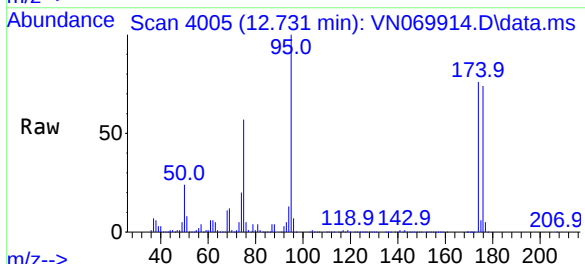
Instrument :
MSVOA_N
ClientSampleId :
MW-24

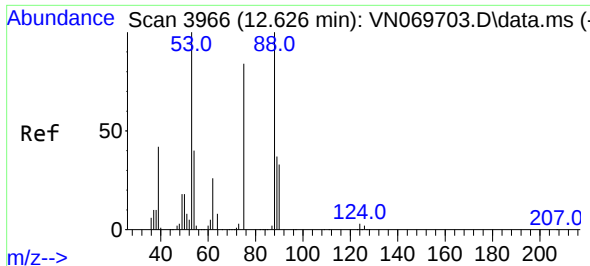
Tgt Ion:152 Resp: 1037491
Ion Ratio Lower Upper
152 100
115 61.2 27.5 82.5
150 157.2 0.0 344.4



#76
1,2,3-Trichloropropane
Concen: 23.438 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.150 min
Lab File: VN069914.D
Acq: 9 Dec 2021 16:21

Tgt Ion: 75 Resp: 697356
Ion Ratio Lower Upper
75 100
77 1.0 82.6 247.8#

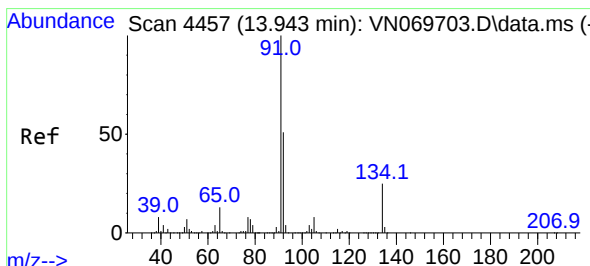
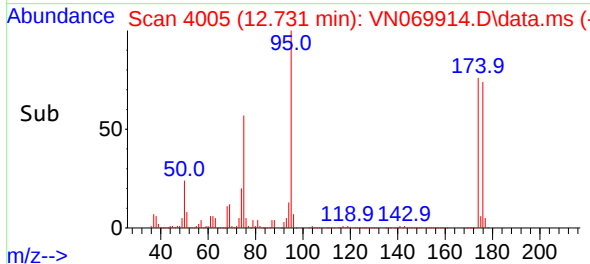
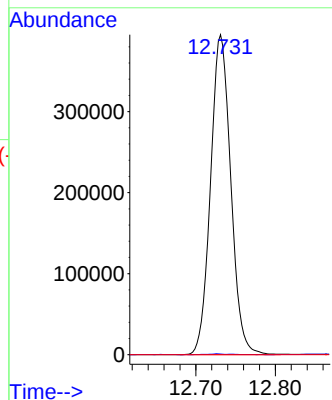
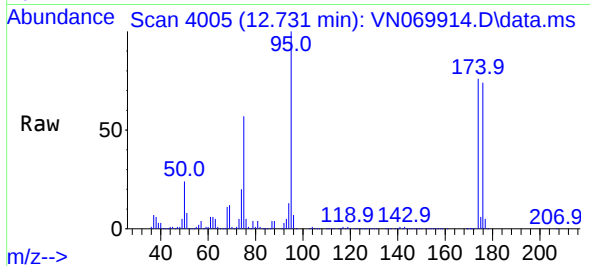




#81
trans-1,4-Dichloro-2-butene
Concen: 74.541 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.105 min
Lab File: VN069914.D
Acq: 9 Dec 2021 16:21

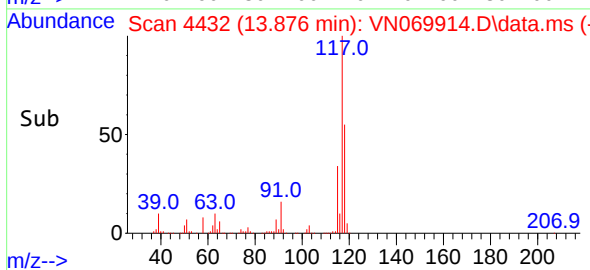
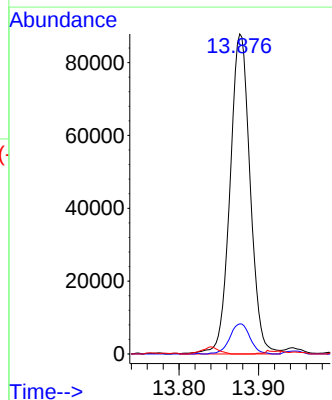
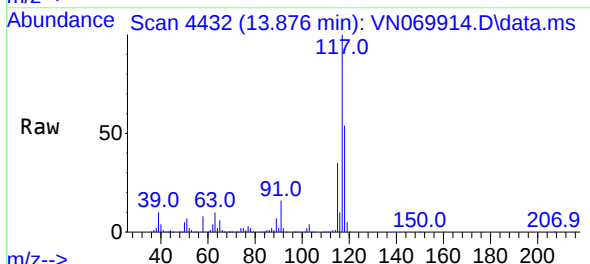
Instrument :
MSVOA_N
ClientSampleId :
MW-24

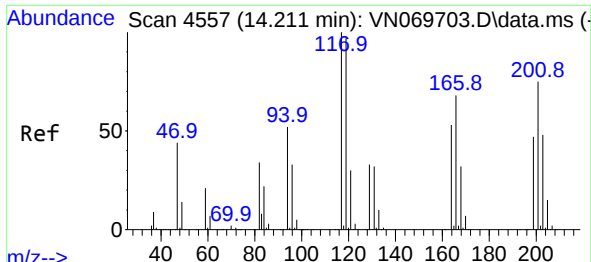
Tgt Ion: 75 Resp: 697356
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 38.2 57.4#



#89
n-Butylbenzene
Concen: 2.731 ug/l
RT: 13.876 min Scan# 4432
Delta R.T. -0.067 min
Lab File: VN069914.D
Acq: 9 Dec 2021 16:21

Tgt Ion: 91 Resp: 154507
Ion Ratio Lower Upper
91 100
92 9.5 25.4 76.0#
134 0.0 13.6 40.8#

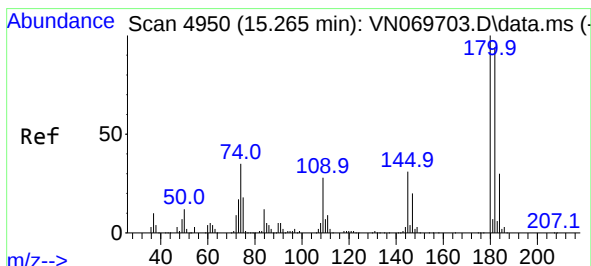
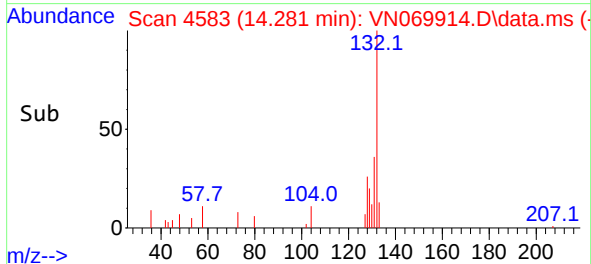
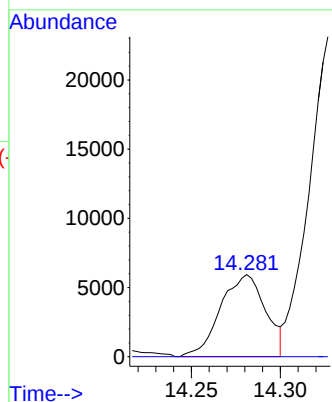
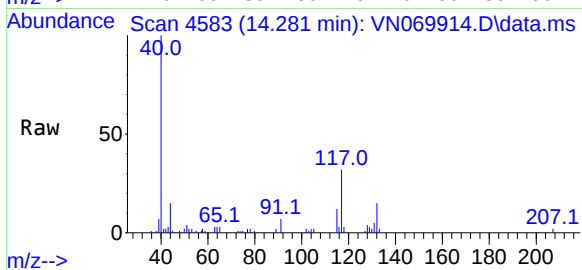




#90
Hexachloroethane
Concen: 0.854 ug/l
RT: 14.281 min Scan# 41
Delta R.T. 0.070 min
Lab File: VN069914.D
Acq: 9 Dec 2021 16:21

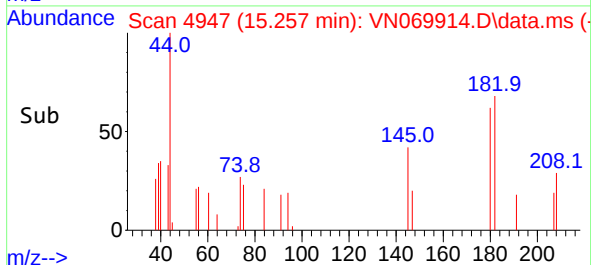
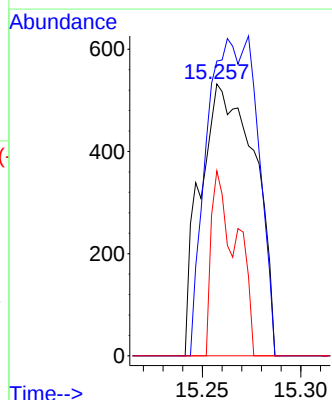
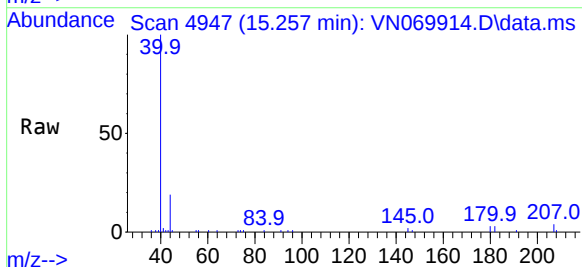
Instrument :
MSVOA_N
ClientSampleId :
MW-24

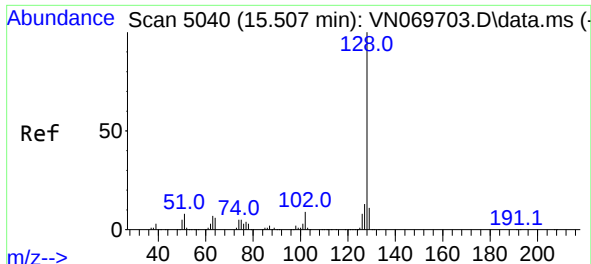
Tgt Ion:117 Resp: 10460
Ion Ratio Lower Upper
117 100
201 0.0 43.9 131.6#



#93
1,2,4-Trichlorobenzene
Concen: 2.934 ug/l
RT: 15.257 min Scan# 4947
Delta R.T. -0.008 min
Lab File: VN069914.D
Acq: 9 Dec 2021 16:21

Tgt Ion:180 Resp: 1021
Ion Ratio Lower Upper
180 100
182 68.8 48.3 144.9
145 21.4 14.5 43.5

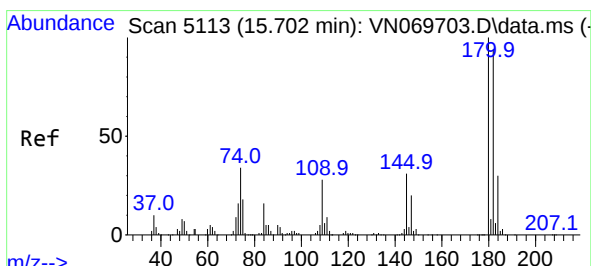
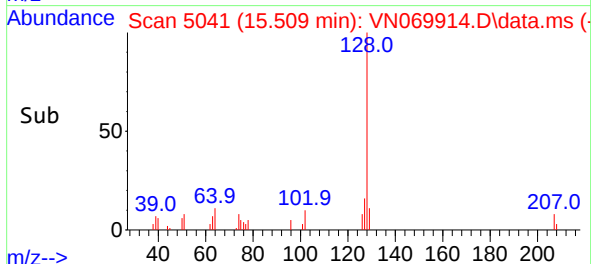
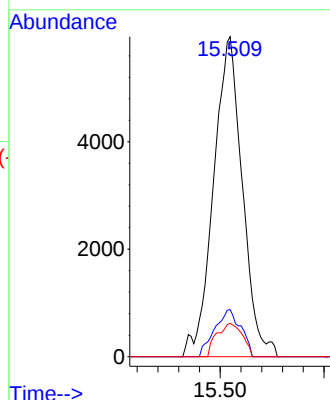
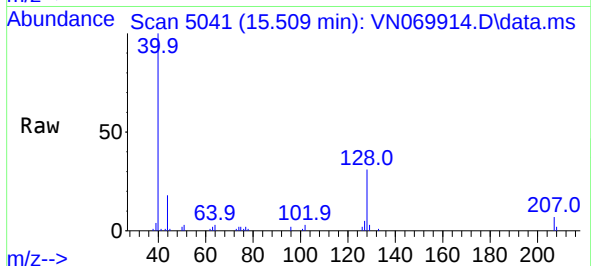




#95
Naphthalene
Concen: 4.194 ug/l
RT: 15.509 min Scan# 5040
Delta R.T. 0.002 min
Lab File: VN069914.D
Acq: 9 Dec 2021 16:21

Instrument :
MSVOA_N
ClientSampleId :
MW-24

Tgt Ion:	128	Resp:	11491
Ion Ratio	Lower	Upper	
128	100		
127	13.3	10.5	15.7
129	9.2	8.7	13.1



#96
1,2,3-Trichlorobenzene
Concen: 2.500 ug/l
RT: 15.697 min Scan# 5111
Delta R.T. -0.005 min
Lab File: VN069914.D
Acq: 9 Dec 2021 16:21

Tgt Ion:	180	Resp:	1116
Ion Ratio	Lower	Upper	
180	100		
182	103.3	47.4	142.2
145	20.3	15.0	45.1

