

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092521\
 Data File : VN068694.D
 Acq On : 26 Sep 2021 4:29
 Operator : JC/MD
 Sample : M3895-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 210922013-01-TRIP-BLANK

Quant Time: Sep 27 07:24:20 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N092521W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Sep 27 07:10:18 2021
 Response via : Initial Calibration

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

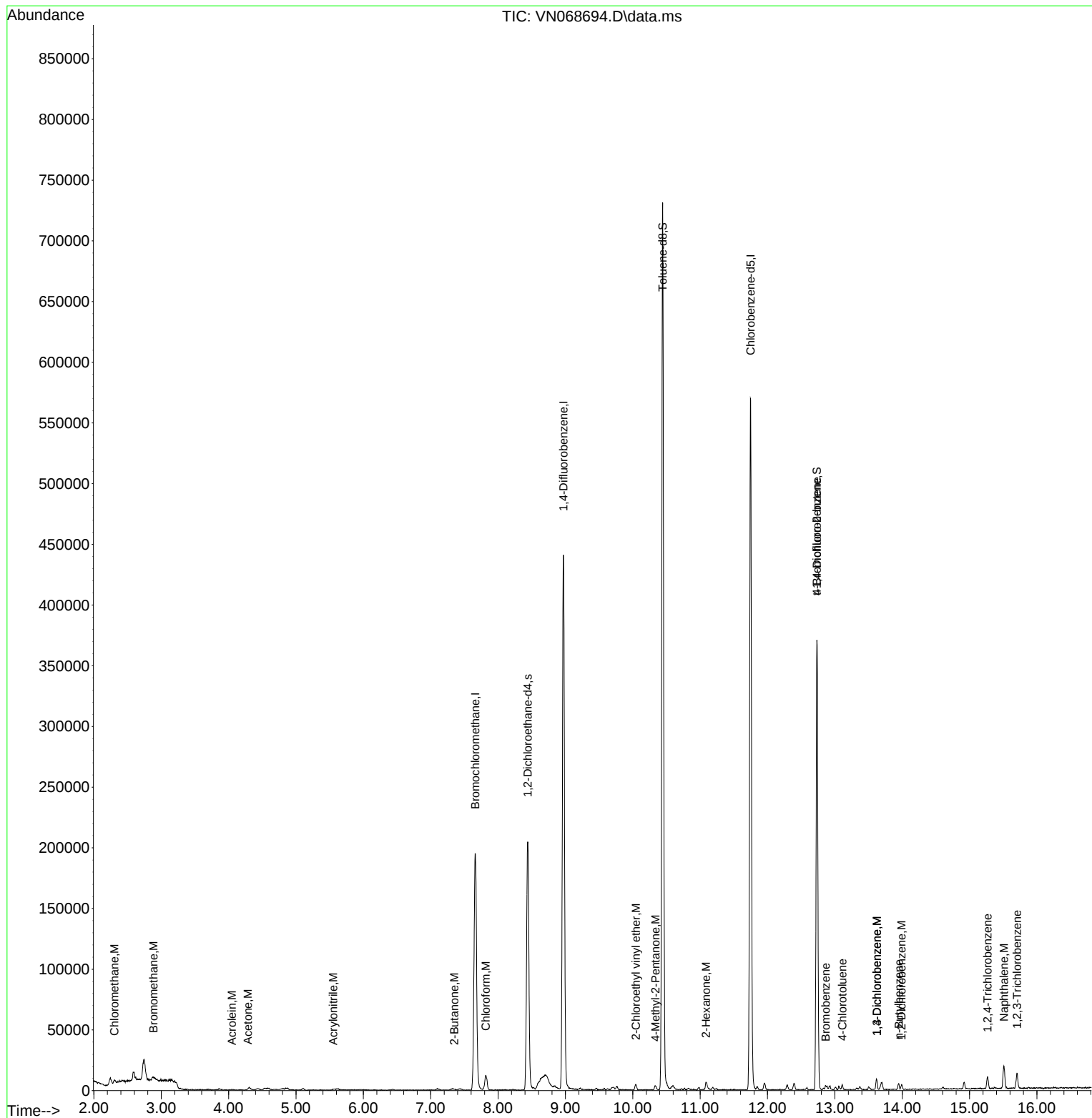
Internal Standards						
1) Bromochloromethane	7.662	128	69826	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	388802	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.749	117	334326	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	177386	30.900	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.000%
60) 4-Bromofluorobenzene	12.733	95	127878	25.039	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	83.467%
63) Toluene-d8	10.443	98	502675	33.974	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	113.233%#
Target Compounds						
					Qvalue	
3) Chloromethane	2.303	50	1480	0.289	ug/l #	70
5) Bromomethane	2.883	94	1233	0.321	ug/l	95
13) Acrolein	4.047	56	69	0.287	ug/l #	1
14) Acrylonitrile	5.554	53	518	0.226	ug/l #	37
15) Acetone	4.285	58	176	0.310	ug/l #	49
25) Chloroform	7.817	83	11114	1.298	ug/l	94
30) 2-Butanone	7.351	43	884	0.267	ug/l #	57
55) 2-Chloroethyl vinyl ether	10.046	63	2185	0.993	ug/l #	85
58) 4-Methyl-2-Pentanone	10.336	43	3027	0.464	ug/l #	82
59) 2-Hexanone	11.087	43	5793	1.162	ug/l #	87
73) Bromobenzene	12.862	156	978	0.222	ug/l	40
77) t-1,4-Dichloro-2-butene	12.733	75	71188	40.271	ug/l #	7
78) 4-Chlorotoluene	13.112	91	2774	0.218	ug/l	98
83) 1,3-Dichlorobenzene	13.624	146	2345	0.321	ug/l	85
84) 1,4-Dichlorobenzene	13.624	146	2345	0.332	ug/l	86
85) n-Butylbenzene	13.951	91	3456	0.281	ug/l #	42
87) 1,2-Dichlorobenzene	13.991	146	2136	0.300	ug/l	91
89) 1,2,4-Trichlorobenzene	15.268	180	3987	1.134	ug/l	87
91) Naphthalene	15.509	128	16684	1.731	ug/l	99
92) 1,2,3-Trichlorobenzene	15.705	180	4736	1.402	ug/l	89

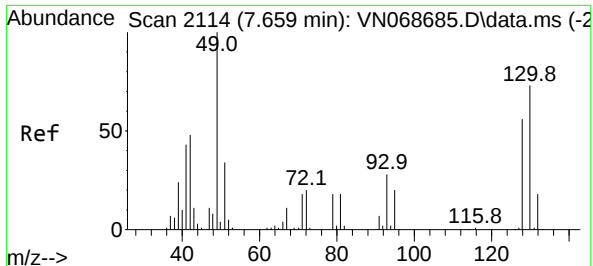
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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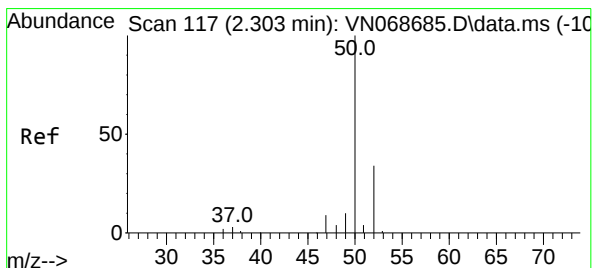
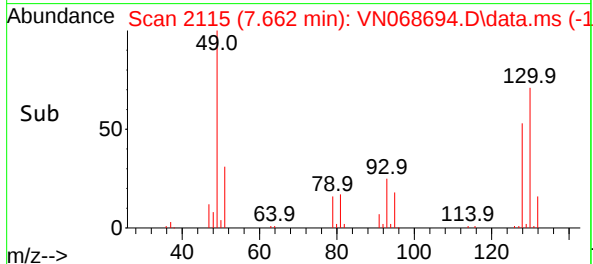
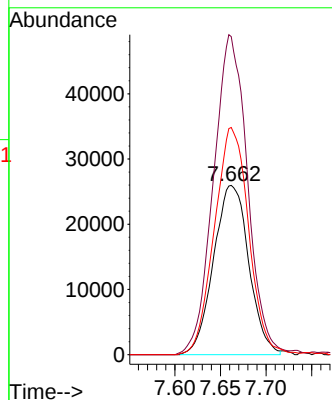
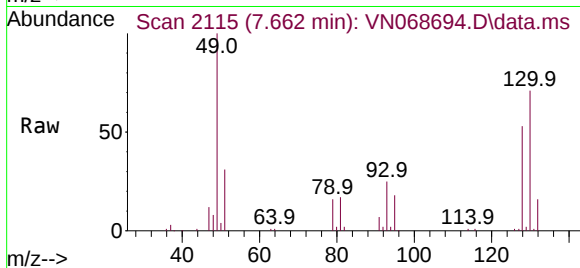




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.662 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VN068694.D
Acq: 26 Sep 2021 4:29

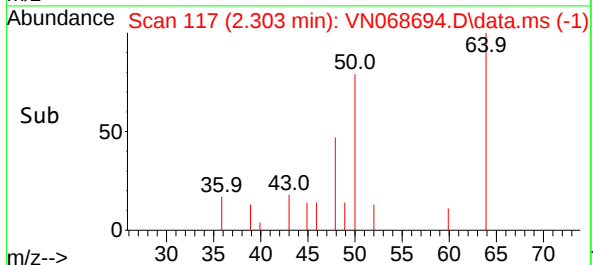
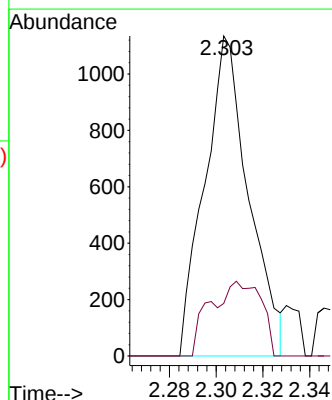
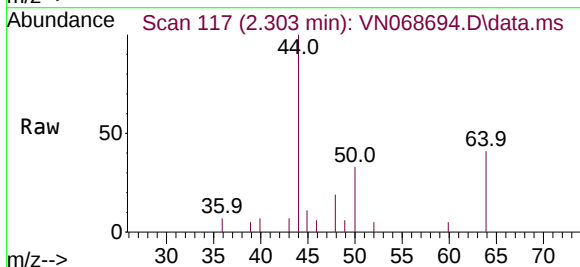
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MSVOA_N
ClientSampleId :
210922013-01-TRIP-BLANK

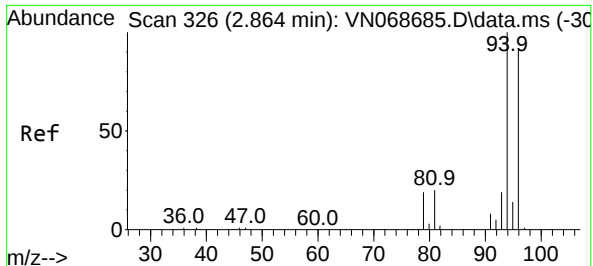
Tgt Ion:128 Resp: 69826
Ion Ratio Lower Upper
128 100
49 182.1 0.0 450.0
130 130.6 0.0 319.5



#3
Chloromethane
Concen: 0.289 ug/l
RT: 2.303 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN068694.D
Acq: 26 Sep 2021 4:29

Tgt Ion: 50 Resp: 1480
Ion Ratio Lower Upper
50 100
52 16.4 27.0 40.6#

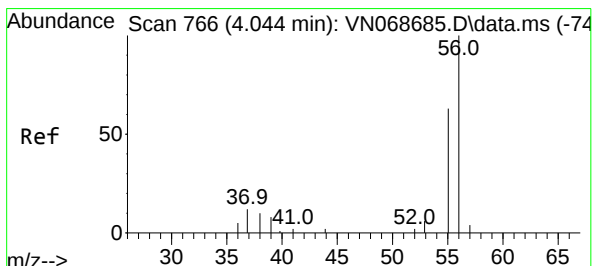
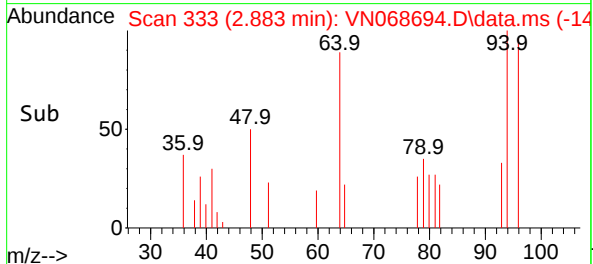
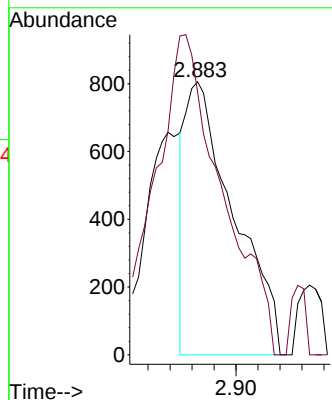
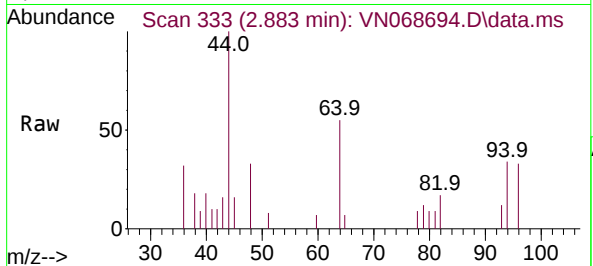




#5
Bromomethane
Concen: 0.321 ug/l
RT: 2.883 min Scan# 333
Delta R.T. 0.019 min
Lab File: VN068694.D
Acq: 26 Sep 2021 4:29

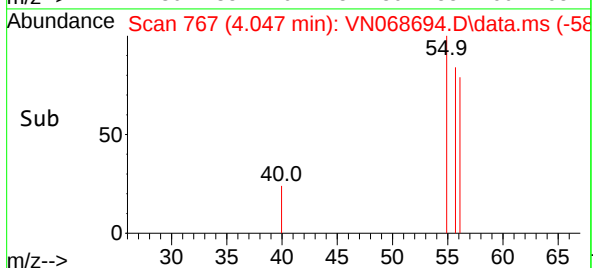
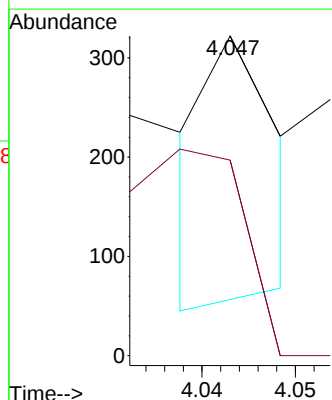
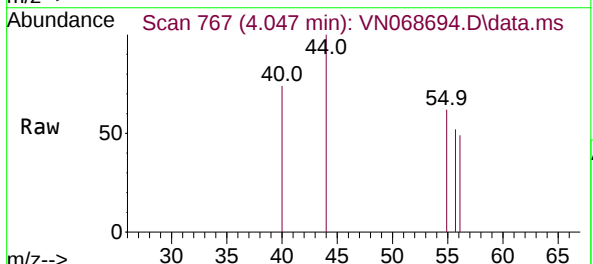
Instrument :
MSVOA_N
ClientSampleId :
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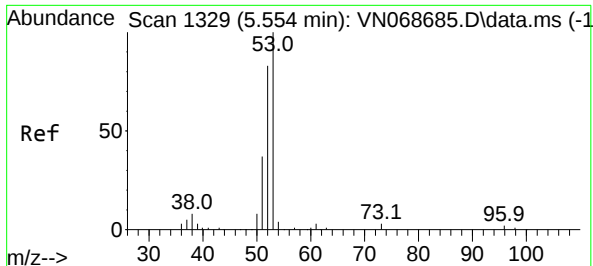
Tgt Ion: 94 Resp: 1233
Ion Ratio Lower Upper
94 100
96 96.3 73.0 109.4



#13
Acrolein
Concen: 0.287 ug/l
RT: 4.047 min Scan# 767
Delta R.T. 0.003 min
Lab File: VN068694.D
Acq: 26 Sep 2021 4:29

Tgt Ion: 56 Resp: 69
Ion Ratio Lower Upper
56 100
55 133.3 25.4 38.0#

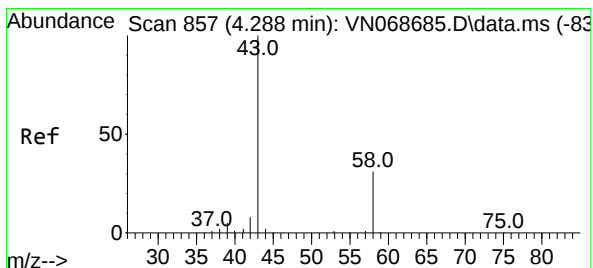
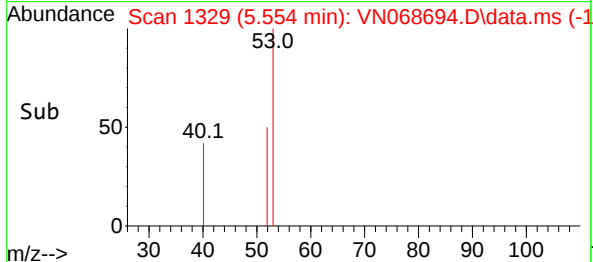
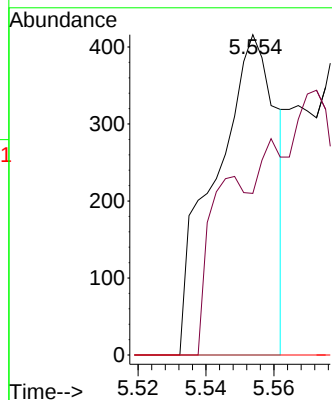
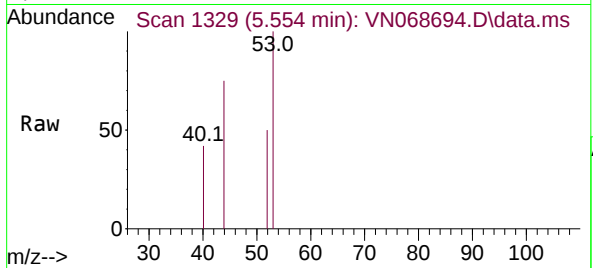




#14
Acrylonitrile
Concen: 0.226 ug/l
RT: 5.554 min Scan# 1329
Delta R.T. -0.000 min
Lab File: VN068694.D
Acq: 26 Sep 2021 4:29

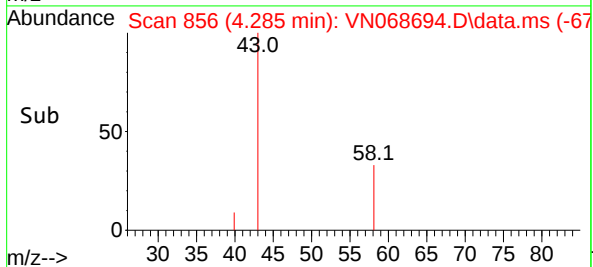
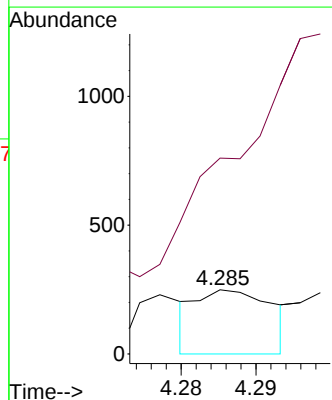
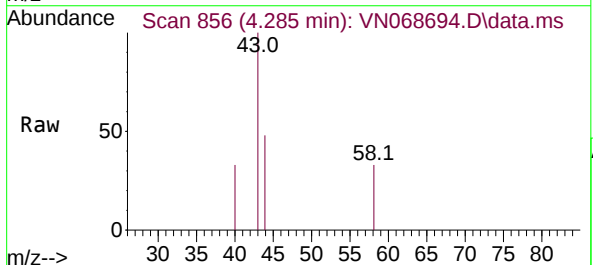
Instrument :
MSVOA_N
ClientSampleId :
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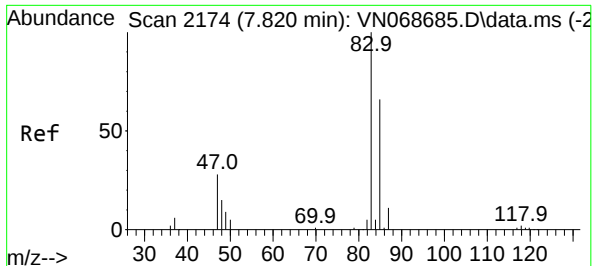
Tgt Ion: 53 Resp: 518
Ion Ratio Lower Upper
53 100
52 24.5 41.0 123.2#
51 0.0 18.2 54.6#



#15
Acetone
Concen: 0.310 ug/l
RT: 4.285 min Scan# 856
Delta R.T. -0.003 min
Lab File: VN068694.D
Acq: 26 Sep 2021 4:29

Tgt Ion: 58 Resp: 176
Ion Ratio Lower Upper
58 100
43 431.0 261.0 391.4#



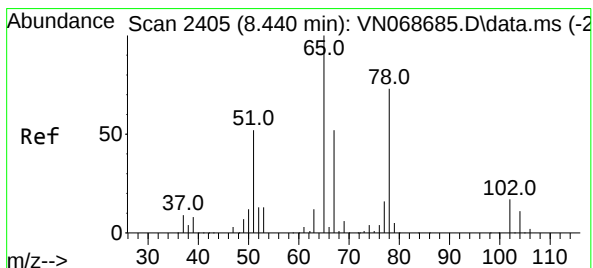
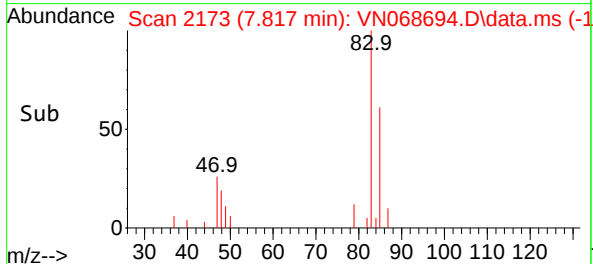
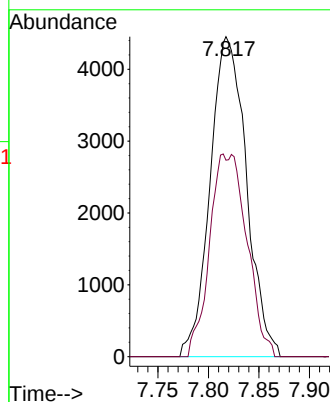
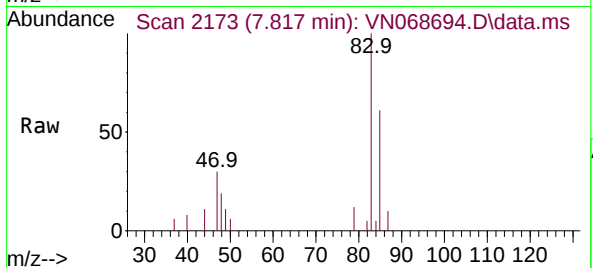


#25

Chloroform
Concen: 1.298 ug/l
RT: 7.817 min Scan# 2173
Delta R.T. -0.003 min
Lab File: VN068694.D
Acq: 26 Sep 2021 4:29

Instrument :
MSVOA_N
ClientSampleId :
210922013-01-TRIP-BLANK

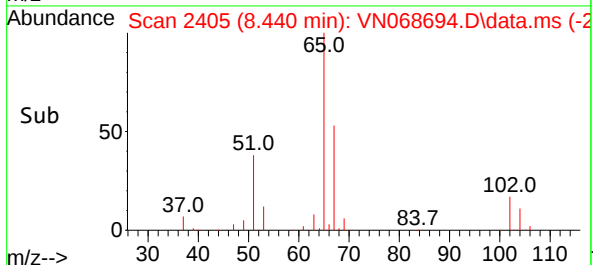
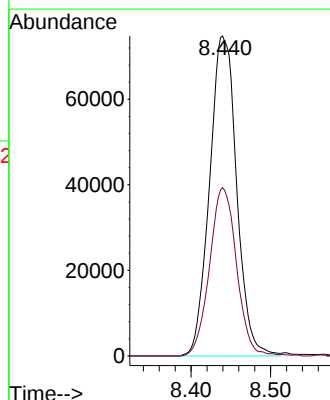
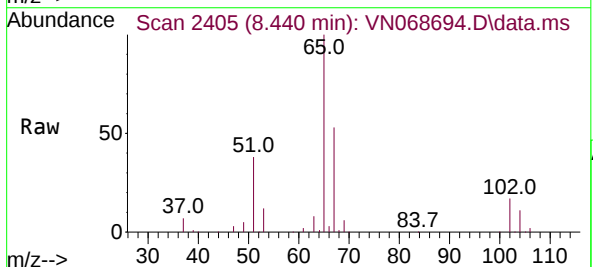
Tgt Ion: 83 Resp: 11114
Ion Ratio Lower Upper
83 100
85 61.4 52.9 79.3

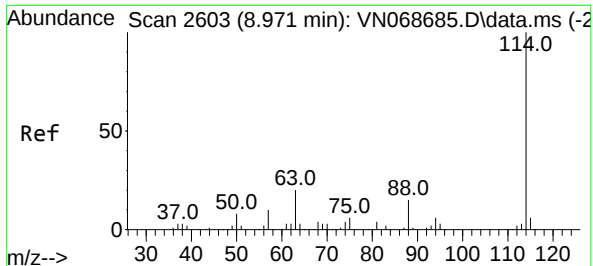


#27

1,2-Dichloroethane-d4
Concen: 30.900 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. -0.000 min
Lab File: VN068694.D
Acq: 26 Sep 2021 4:29

Tgt Ion: 65 Resp: 177386
Ion Ratio Lower Upper
65 100
67 52.1 41.0 61.6

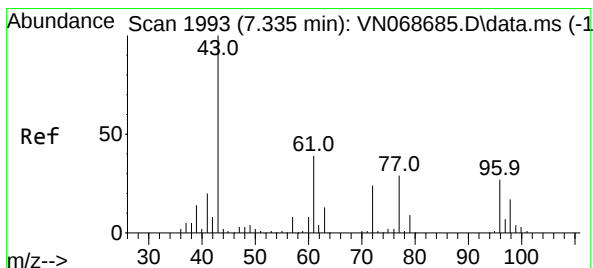
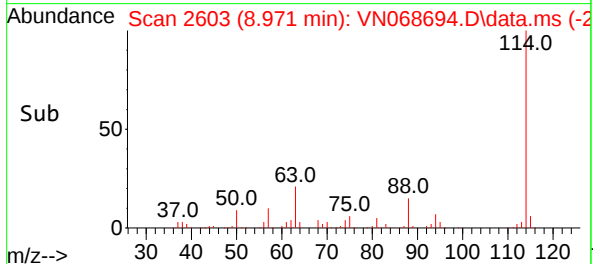
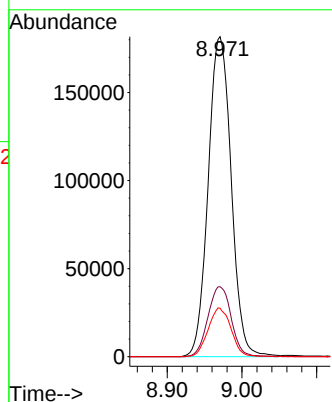
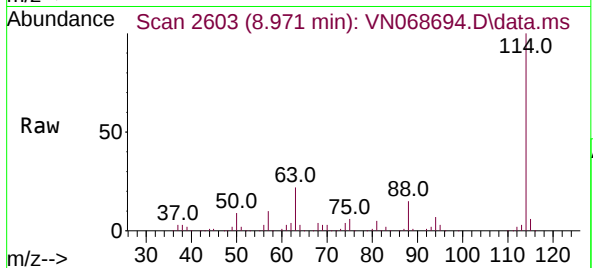




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.971 min Scan# 2603
Delta R.T. -0.000 min
Lab File: VN068694.D
Acq: 26 Sep 2021 4:29

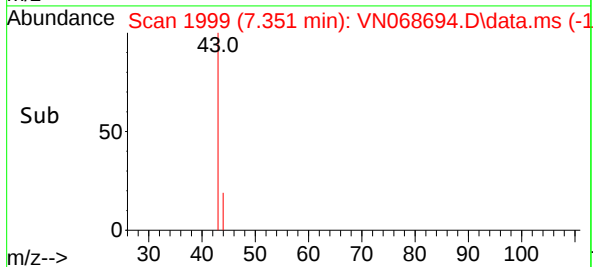
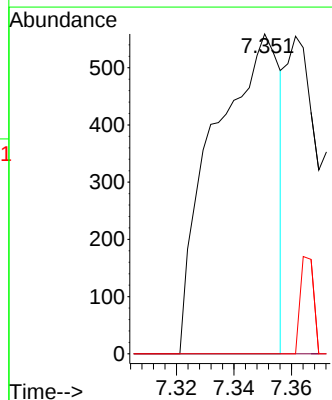
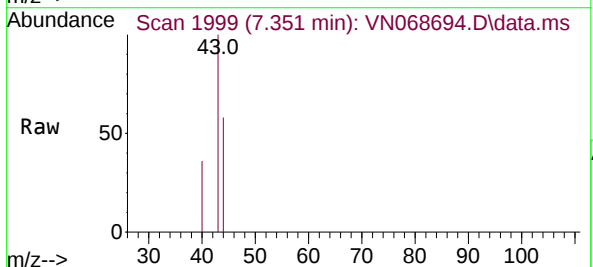
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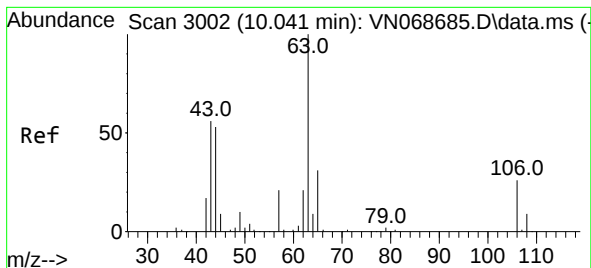
Tgt Ion:114 Resp: 388802
Ion Ratio Lower Upper
114 100
63 22.1 17.1 25.7
88 15.1 12.2 18.4



#30
2-Butanone
Concen: 0.267 ug/l
RT: 7.351 min Scan# 1999
Delta R.T. 0.016 min
Lab File: VN068694.D
Acq: 26 Sep 2021 4:29

Tgt Ion: 43 Resp: 884
Ion Ratio Lower Upper
43 100
57 0.0 6.4 9.6#
72 0.0 19.6 29.4#

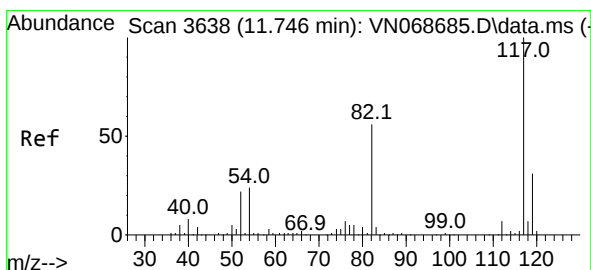
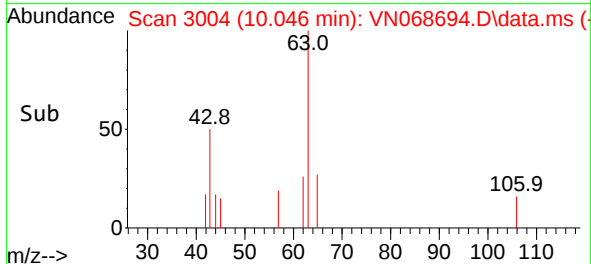
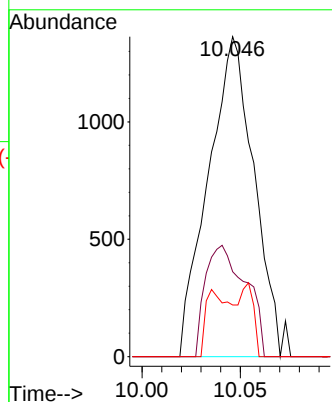
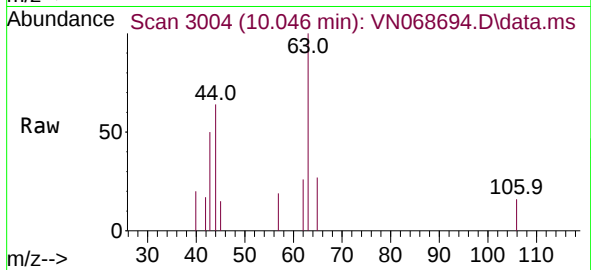




#55
2-Chloroethyl vinyl ether
Concen: 0.993 ug/l
RT: 10.046 min Scan# 3004
Delta R.T. 0.005 min
Lab File: VN068694.D
Acq: 26 Sep 2021 4:29

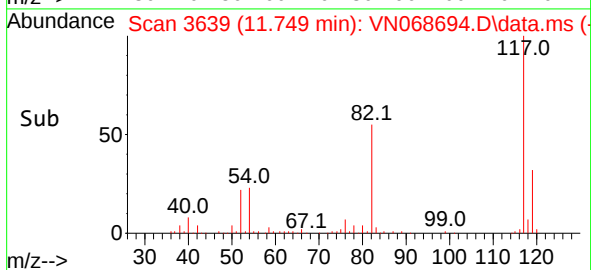
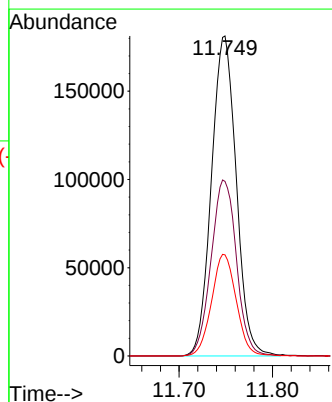
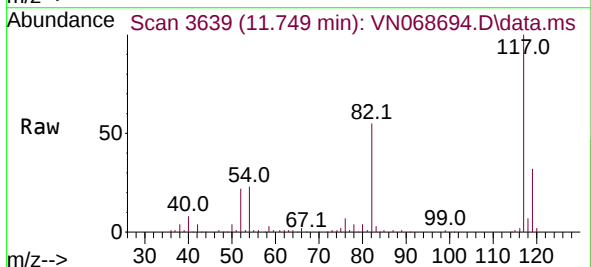
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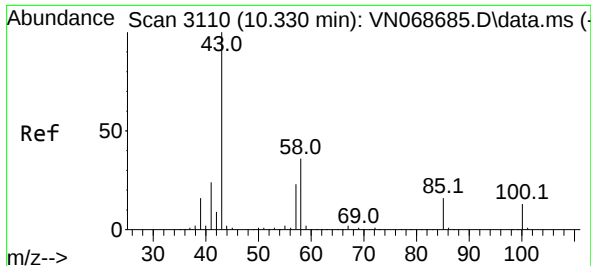
Tgt Ion:	63	Resp:	2185
Ion	Ratio	Lower	Upper
63	100		
65	31.0	25.4	38.0
106	10.8	21.3	31.9#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.749 min Scan# 3639
Delta R.T. 0.003 min
Lab File: VN068694.D
Acq: 26 Sep 2021 4:29

Tgt Ion:	117	Resp:	334326
Ion	Ratio	Lower	Upper
117	100		
82	56.4	44.6	66.8
119	31.6	25.7	38.5

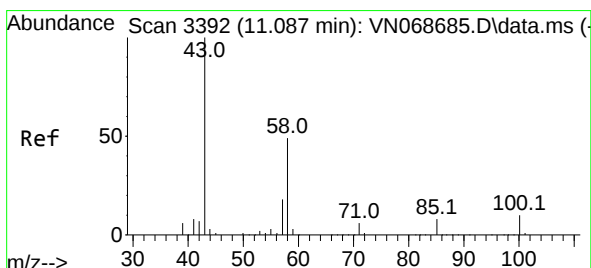
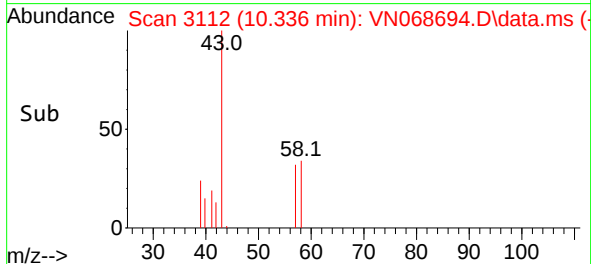
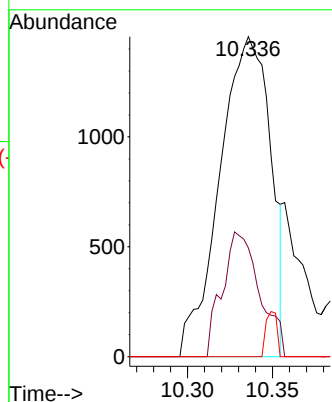
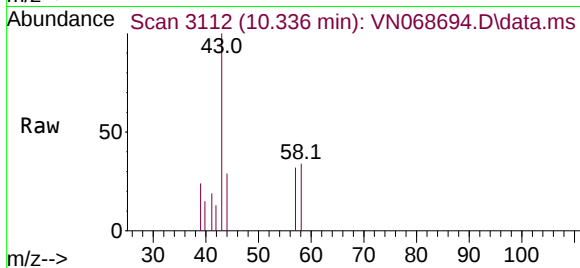




#58
4-Methyl-2-Pentanone
Concen: 0.464 ug/l
RT: 10.336 min Scan# 3112
Delta R.T. 0.005 min
Lab File: VN068694.D
Acq: 26 Sep 2021 4:29

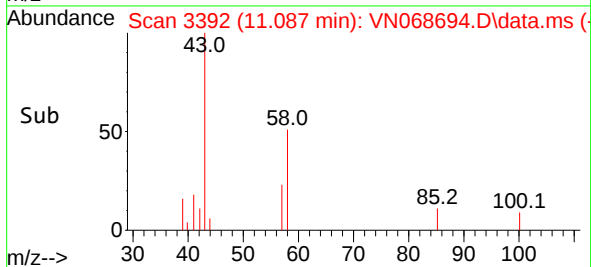
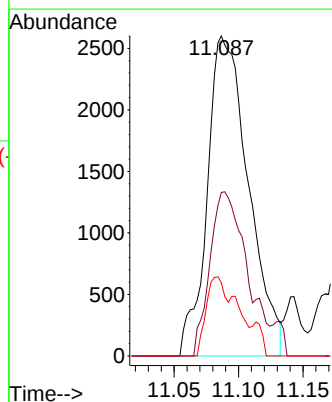
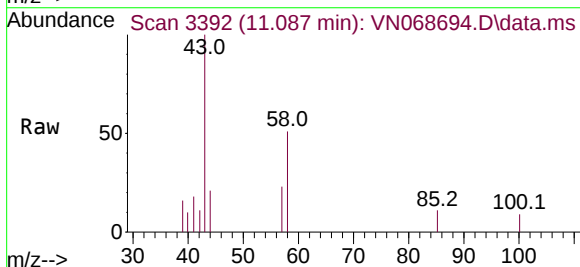
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MSVOA_N
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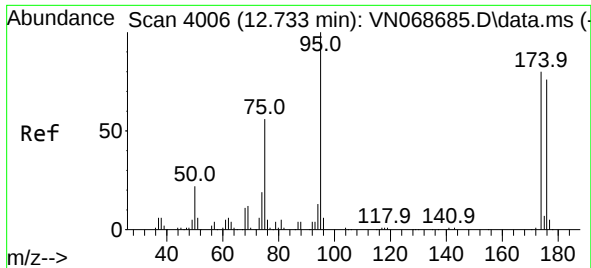
Tgt Ion: 43 Resp: 3027
Ion Ratio Lower Upper
43 100
58 28.8 28.5 42.7
85 3.0 12.8 19.2#



#59
2-Hexanone
Concen: 1.162 ug/l
RT: 11.087 min Scan# 3392
Delta R.T. -0.000 min
Lab File: VN068694.D
Acq: 26 Sep 2021 4:29

Tgt Ion: 43 Resp: 5793
Ion Ratio Lower Upper
43 100
58 40.9 39.5 59.3
57 12.0 14.3 21.5#

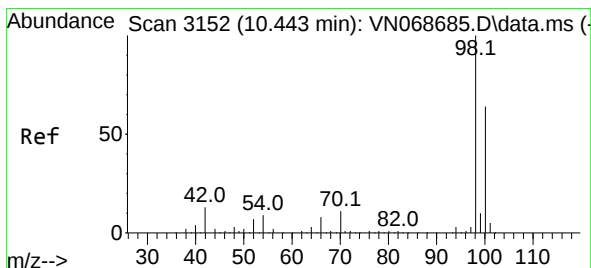
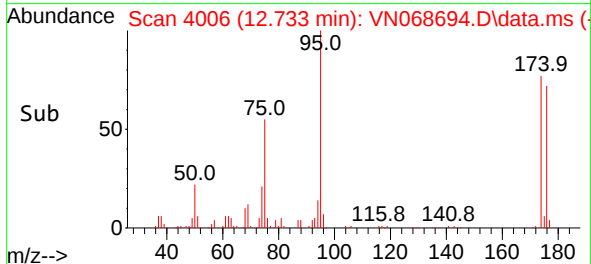
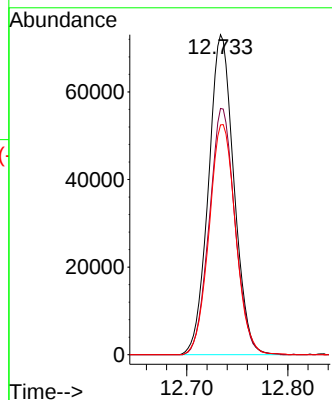
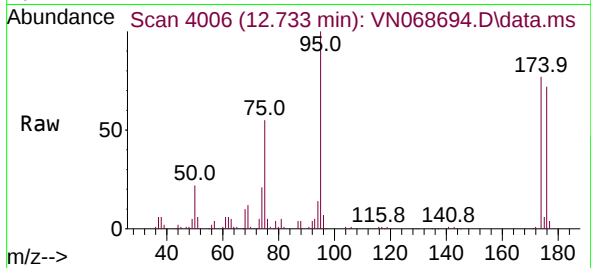




#60
4-Bromofluorobenzene
Concen: 25.039 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.000 min
Lab File: VN068694.D
Acq: 26 Sep 2021 4:29

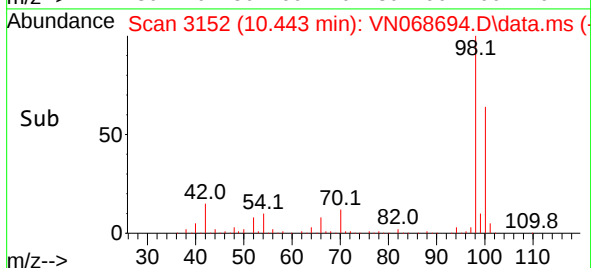
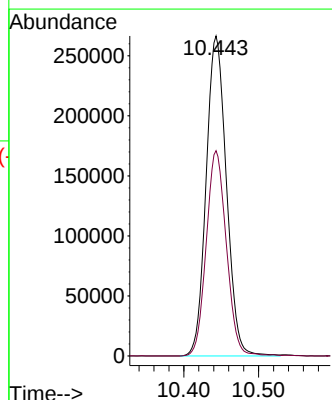
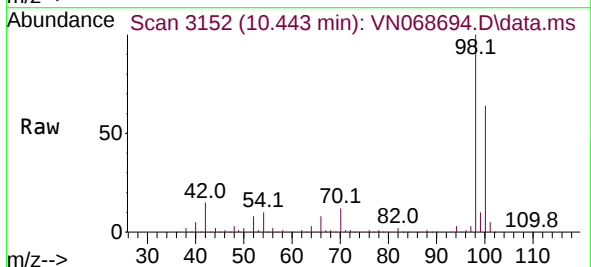
Instrument :
MSVOA_N
ClientSampleId :
210922013-01-TRIP-BLANK

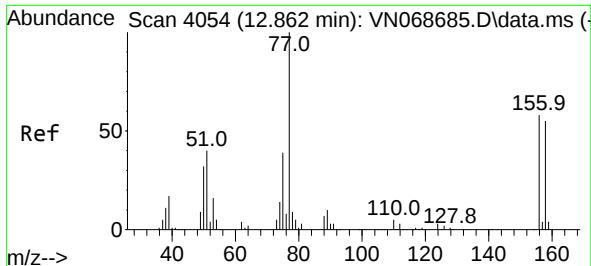
Tgt Ion: 95 Resp: 127878
Ion Ratio Lower Upper
95 100
174 77.8 63.0 94.6
176 74.7 60.6 90.8



#63
Toluene-d8
Concen: 33.974 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. -0.000 min
Lab File: VN068694.D
Acq: 26 Sep 2021 4:29

Tgt Ion: 98 Resp: 502675
Ion Ratio Lower Upper
98 100
100 63.5 51.4 77.2

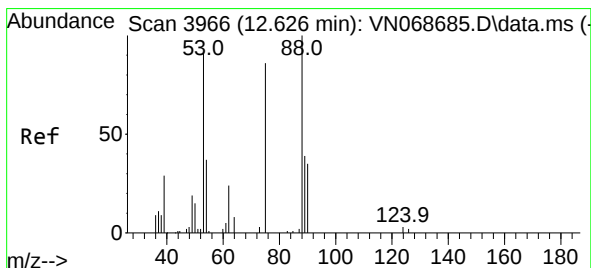
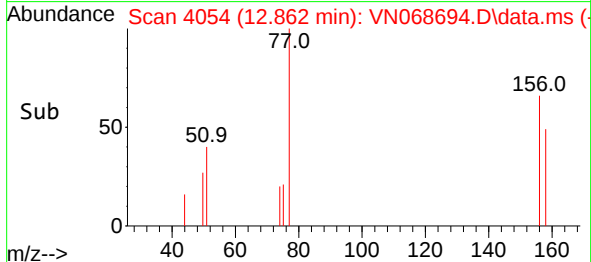
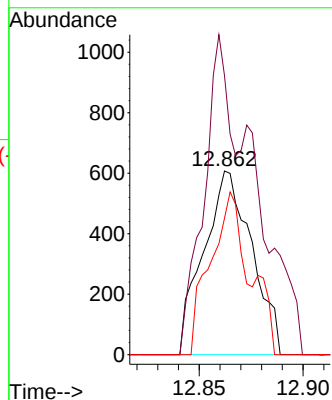
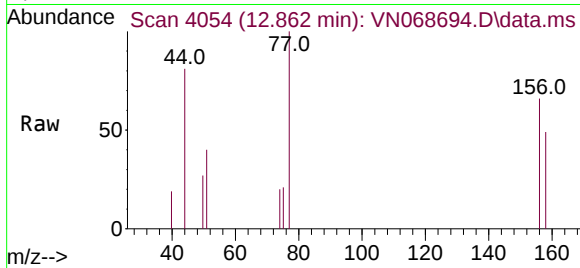




#73
Bromobenzene
Concen: 0.222 ug/l
RT: 12.862 min Scan# 4054
Delta R.T. -0.000 min
Lab File: VN068694.D
Acq: 26 Sep 2021 4:29

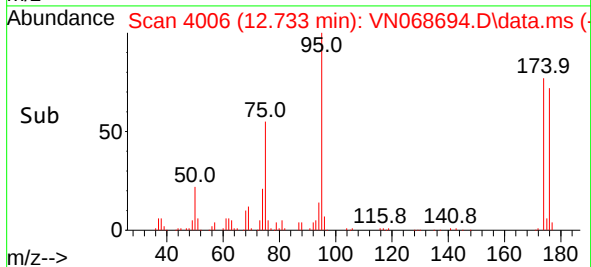
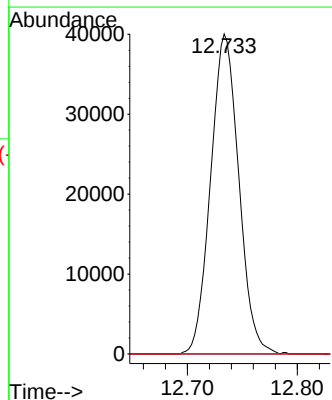
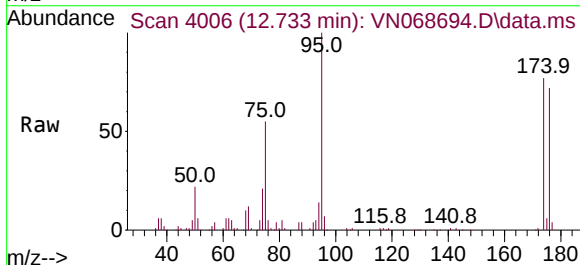
Instrument :
MSVOA_N
ClientSampleId :
210922013-01-TRIP-BLANK

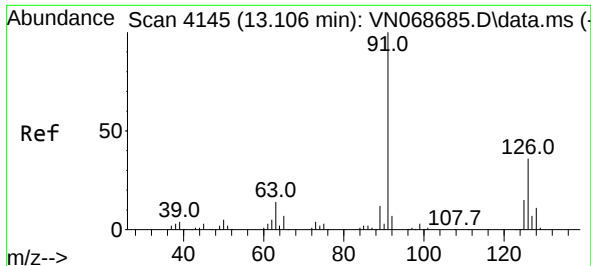
Tgt Ion:	156	Resp:	978
Ion Ratio	Lower	Upper	
156	100		
77	101.5	0.0	425.8
158	61.6	0.0	196.2



#77
t-1,4-Dichloro-2-butene
Concen: 40.271 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.107 min
Lab File: VN068694.D
Acq: 26 Sep 2021 4:29

Tgt Ion:	75	Resp:	71188
Ion Ratio	Lower	Upper	
75	100		
53	0.0	52.8	158.4#
89	0.0	24.8	74.3#

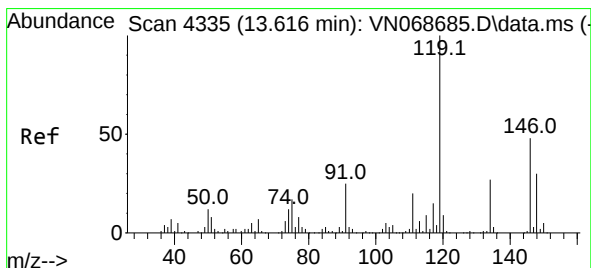
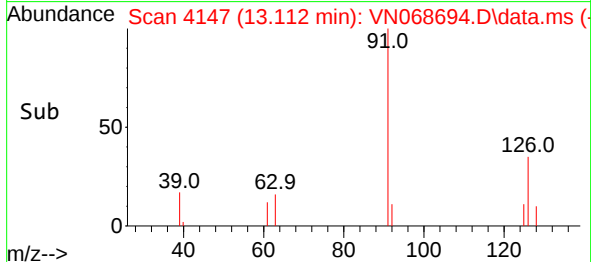
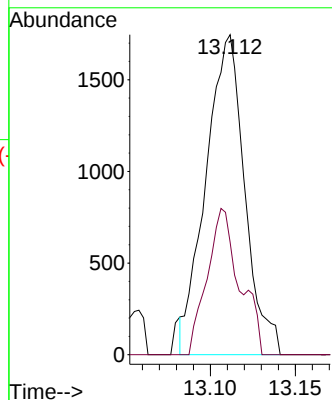
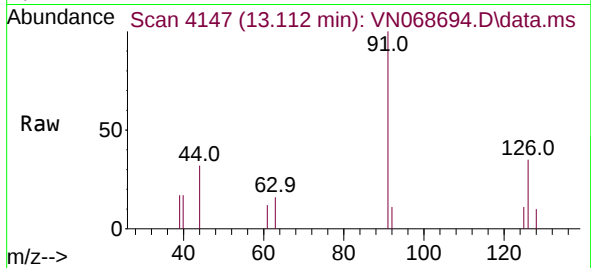




#78
4-Chlorotoluene
Concen: 0.218 ug/l
RT: 13.112 min Scan# 4147
Delta R.T. 0.005 min
Lab File: VN068694.D
Acq: 26 Sep 2021 4:29

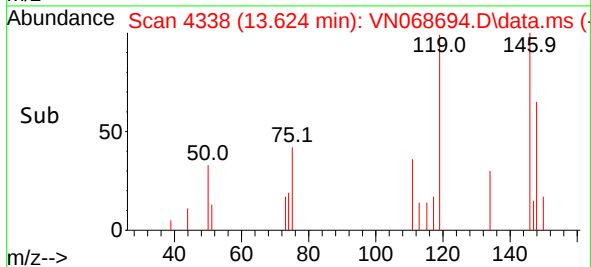
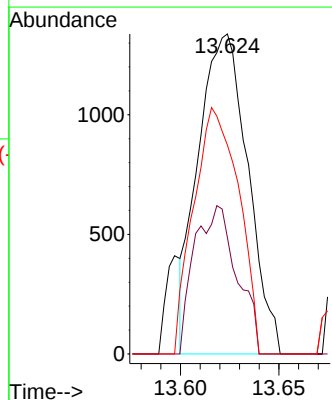
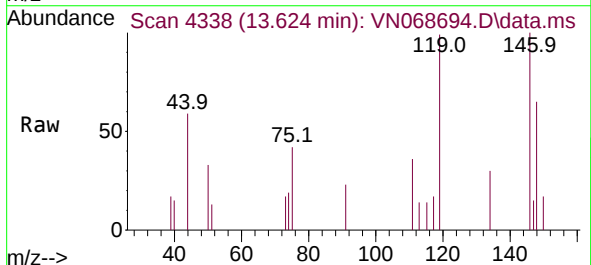
Instrument :
MSVOA_N
ClientSampleId :
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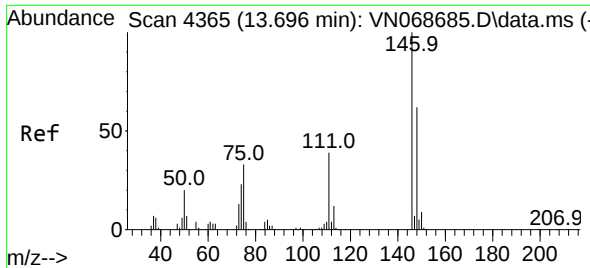
Tgt Ion: 91 Resp: 2774
Ion Ratio Lower Upper
91 100
126 33.0 0.0 68.2



#83
1,3-Dichlorobenzene
Concen: 0.321 ug/l
RT: 13.624 min Scan# 4338
Delta R.T. 0.008 min
Lab File: VN068694.D
Acq: 26 Sep 2021 4:29

Tgt Ion: 146 Resp: 2345
Ion Ratio Lower Upper
146 100
111 25.1 20.4 61.3
148 70.1 31.8 95.3

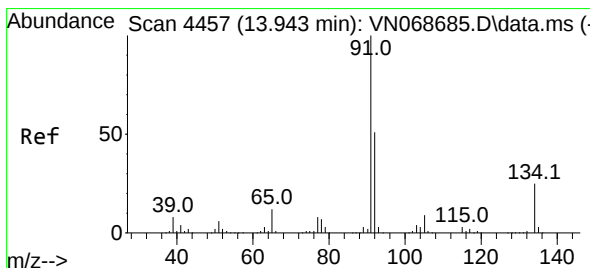
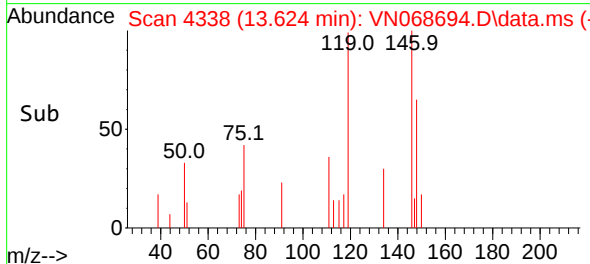
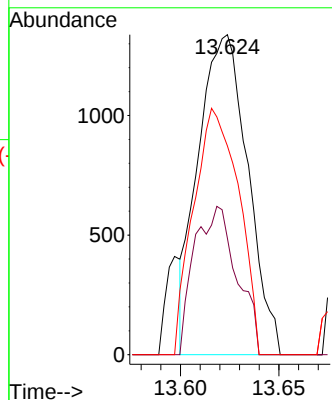
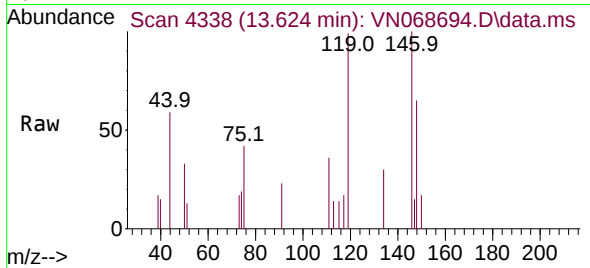




#84
1,4-Dichlorobenzene
Concen: 0.332 ug/l
RT: 13.624 min Scan# 4338
Delta R.T. -0.072 min
Lab File: VN068694.D
Acq: 26 Sep 2021 4:29

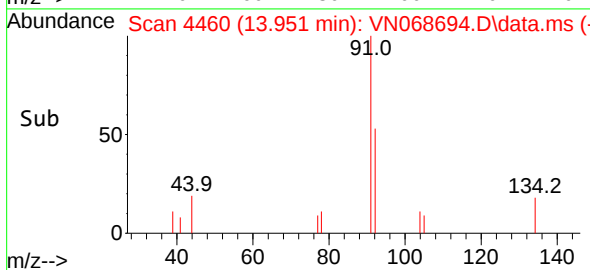
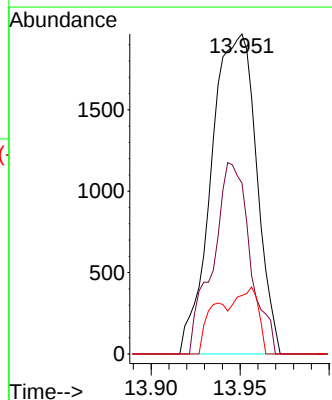
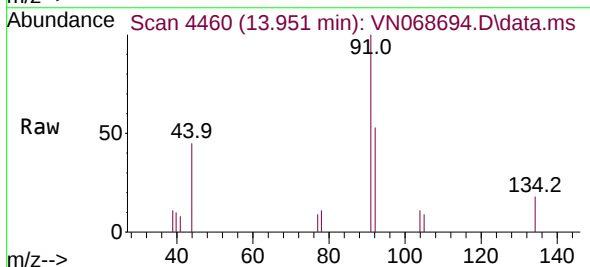
Instrument :
MSVOA_N
ClientSampleId :
210922013-01-TRIP-BLANK

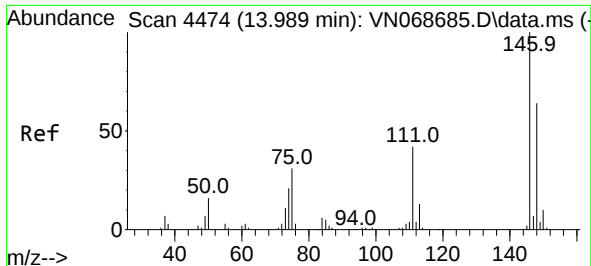
Tgt Ion:	146	Resp:	2345
Ion	Ratio	Lower	Upper
146	100		
111	25.1	19.6	58.8
148	70.1	31.8	95.4



#85
n-Butylbenzene
Concen: 0.281 ug/l
RT: 13.951 min Scan# 4460
Delta R.T. 0.008 min
Lab File: VN068694.D
Acq: 26 Sep 2021 4:29

Tgt Ion:	91	Resp:	3456
Ion	Ratio	Lower	Upper
91	100		
92	0.0	0.0	101.6
134	10.9	0.0	49.6

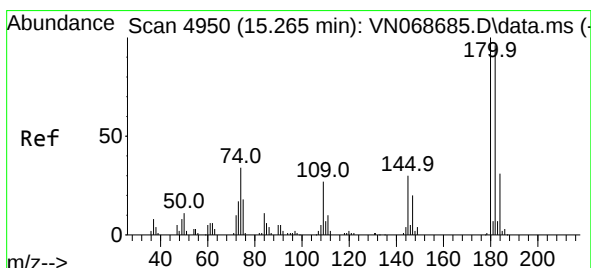
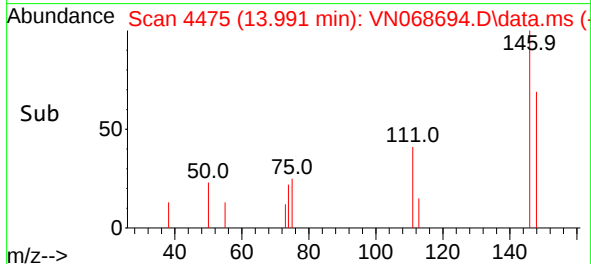
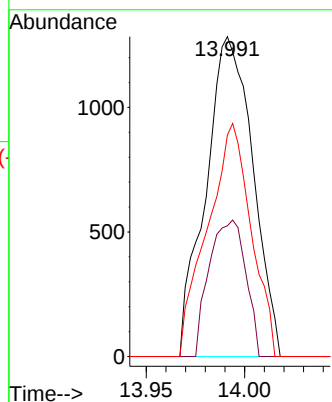
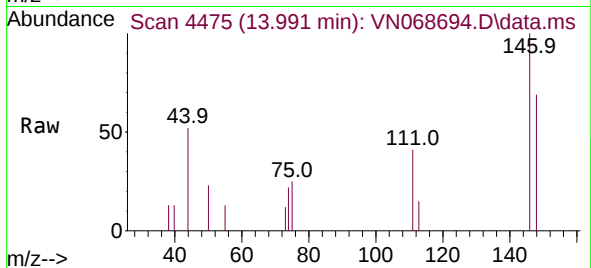




#87
1,2-Dichlorobenzene
Concen: 0.300 ug/l
RT: 13.991 min Scan# 4475
Delta R.T. 0.003 min
Lab File: VN068694.D
Acq: 26 Sep 2021 4:29

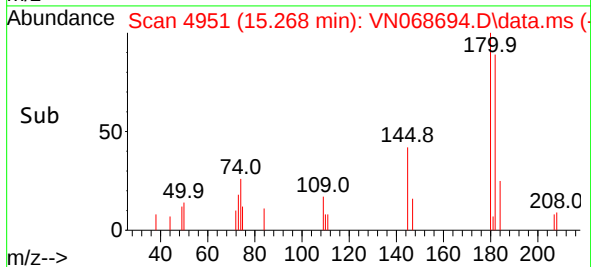
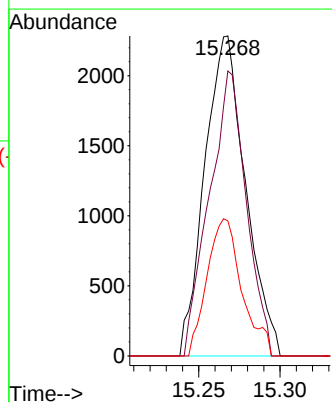
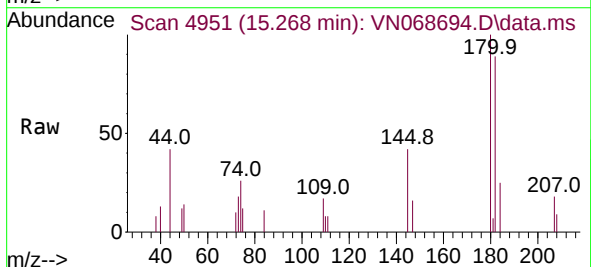
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MSVOA_N
ClientSampleId :
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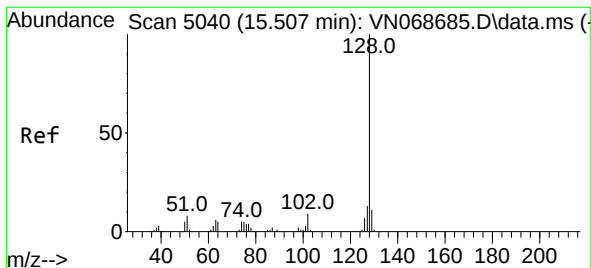
Tgt Ion:146 Resp: 2136
Ion Ratio Lower Upper
146 100
111 33.0 21.5 64.5
148 67.5 31.9 95.9



#89
1,2,4-Trichlorobenzene
Concen: 1.134 ug/l
RT: 15.268 min Scan# 4951
Delta R.T. 0.003 min
Lab File: VN068694.D
Acq: 26 Sep 2021 4:29

Tgt Ion:180 Resp: 3987
Ion Ratio Lower Upper
180 100
182 80.8 75.6 113.4
145 35.1 24.5 36.7

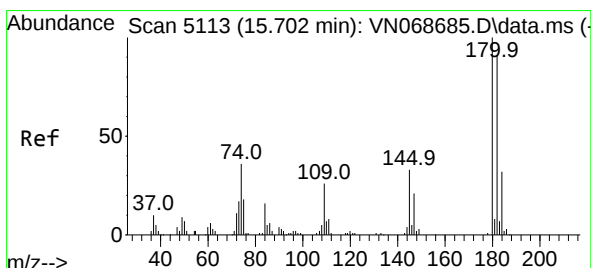
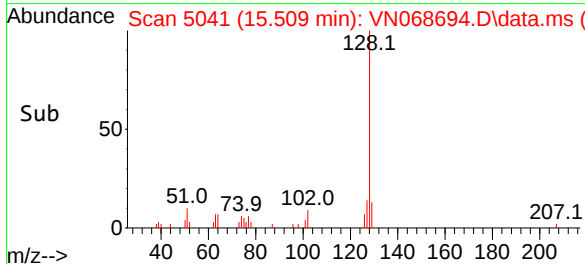
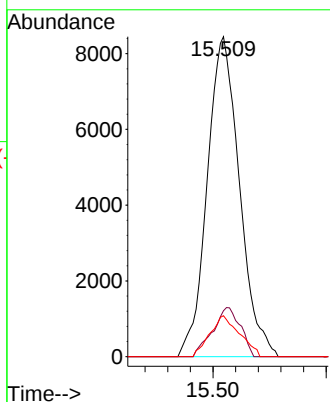
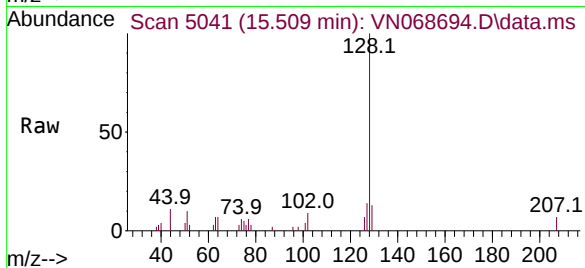




#91
Naphthalene
Concen: 1.731 ug/l
RT: 15.509 min Scan# 5041
Delta R.T. 0.003 min
Lab File: VN068694.D
Acq: 26 Sep 2021 4:29

Instrument :
MSVOA_N
ClientSampleId :
210922013-01-TRIP-BLANK

Tgt Ion:128	Resp:	16684
Ion Ratio	Lower	Upper
128	100	
127	13.2	10.9 16.3
129	11.8	9.0 13.6



#92
1,2,3-Trichlorobenzene
Concen: 1.402 ug/l
RT: 15.705 min Scan# 5114
Delta R.T. 0.003 min
Lab File: VN068694.D
Acq: 26 Sep 2021 4:29

Tgt Ion:180	Resp:	4736
Ion Ratio	Lower	Upper
180	100	
182	99.4	0.0 190.0
145	17.1	0.0 66.8

