

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092721\
 Data File : VN068709.D
 Acq On : 27 Sep 2021 19:44
 Operator : JC/MD
 Sample : M3760-01 5X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WWRE

Quant Time: Sep 28 05:29:51 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N092721W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Sep 27 14:37:57 2021
 Response via : Initial Calibration

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

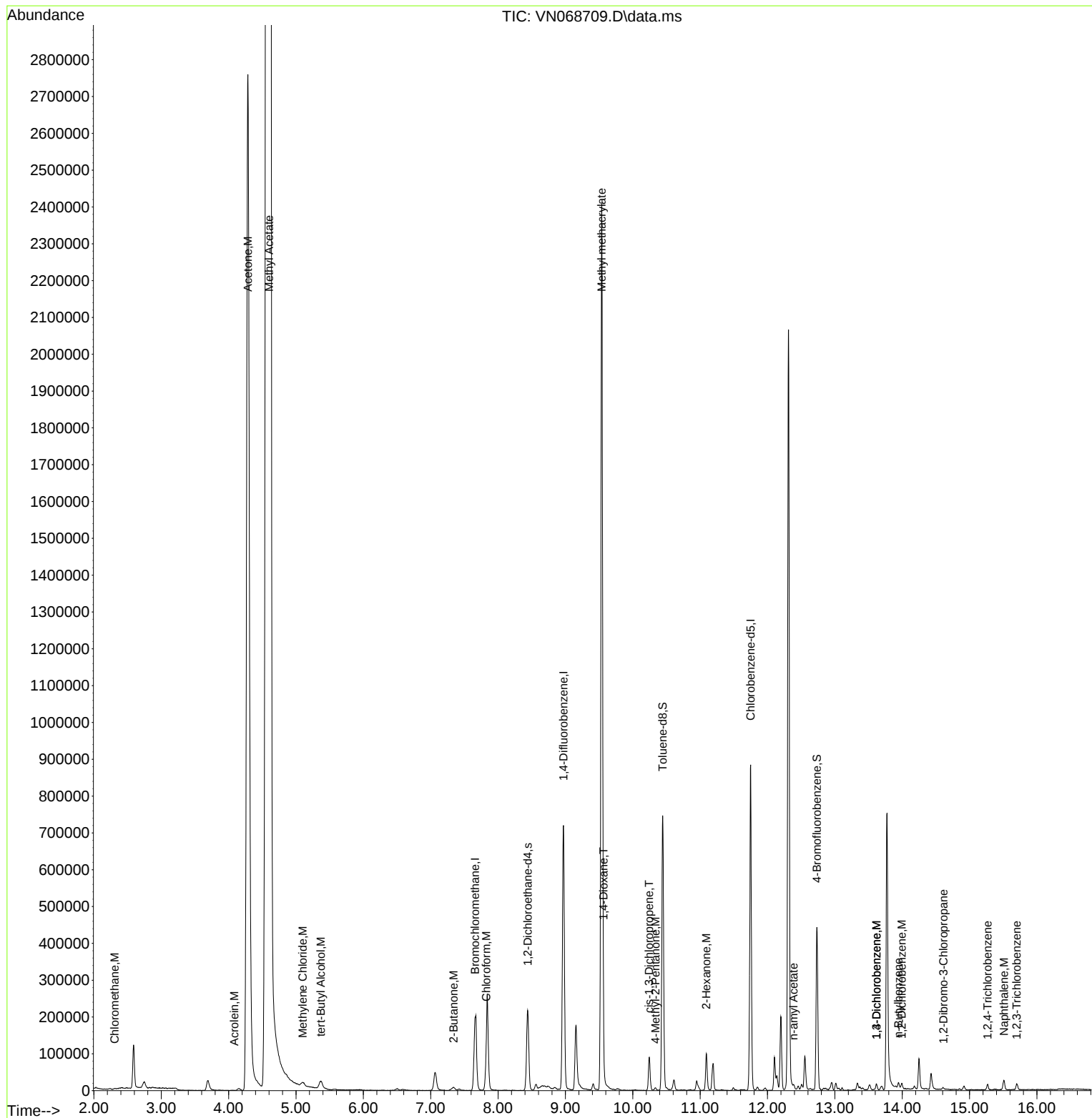
Internal Standards						
1) Bromochloromethane	7.656	128	70451	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	609069	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.749	117	438575	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	180345	27.731	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	92.433%		
60) 4-Bromofluorobenzene	12.733	95	151452	19.317	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	64.400%		
63) Toluene-d8	10.443	98	510579	24.929	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	83.100%#		
Target Compounds						
					Qvalue	
3) Chloromethane	2.306	50	1409	0.269	ug/l	99
12) Methyl Acetate	4.599	43	9533671	1159.850	ug/l #	55
13) Acrolein	4.084	56	189	0.737	ug/l	94
15) Acetone	4.285	58	1564372	2320.271	ug/l	91
18) Methylene Chloride	5.100	84	6148	1.298	ug/l #	91
23) tert-Butyl Alcohol	5.369	59	34287	42.050	ug/l #	100
25) Chloroform	7.823	83	26144	2.721	ug/l	96
30) 2-Butanone	7.340	43	11715	2.087	ug/l #	58
45) 1,4-Dioxane	9.563	88	250	1.706	ug/l #	24
46) Methyl methacrylate	9.536	41	40823	3.889	ug/l #	32
47) n-amyl Acetate	12.387	43	4763	0.258	ug/l	98
49) cis-1,3-Dichloropropene	10.242	75	14494	1.037	ug/l #	73
58) 4-Methyl-2-Pentanone	10.338	43	4256	0.446	ug/l	99
59) 2-Hexanone	11.092	43	24870	3.478	ug/l #	1
83) 1,3-Dichlorobenzene	13.618	146	3880	0.315	ug/l	75
84) 1,4-Dichlorobenzene	13.618	146	3880	0.343	ug/l	73
85) n-Butylbenzene	13.943	91	8926	0.436	ug/l	92
87) 1,2-Dichlorobenzene	13.994	146	3954	0.356	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.611	75	1055	0.595	ug/l #	49
89) 1,2,4-Trichlorobenzene	15.268	180	4885	0.877	ug/l	97
91) Naphthalene	15.509	128	23714	1.637	ug/l	97
92) 1,2,3-Trichlorobenzene	15.700	180	3196	0.603	ug/l	83

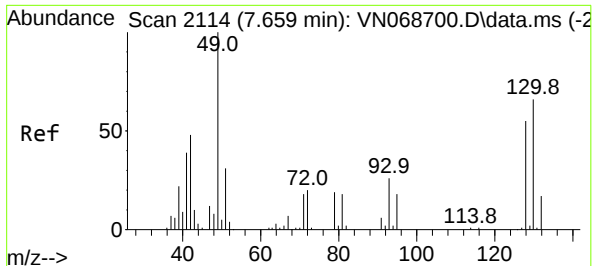
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092721\
Data File : VN068709.D
Acq On : 27 Sep 2021 19:44
Operator : JC/MD
Sample : M3760-01 5X
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWRE

Quant Time: Sep 28 05:29:51 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N092721W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Sep 27 14:37:57 2021
Response via : Initial Calibration

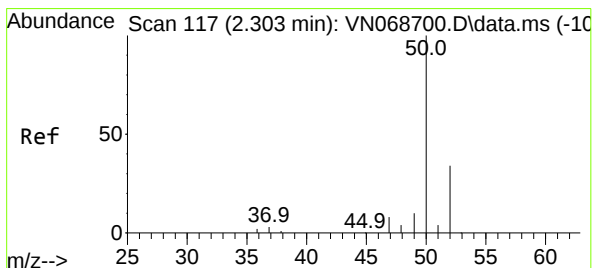
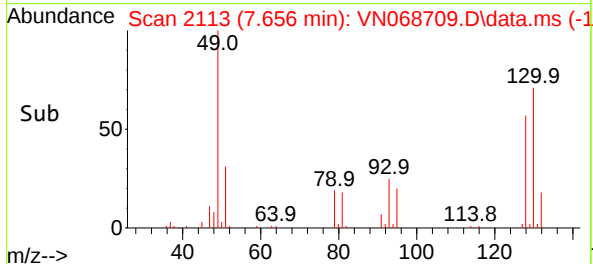
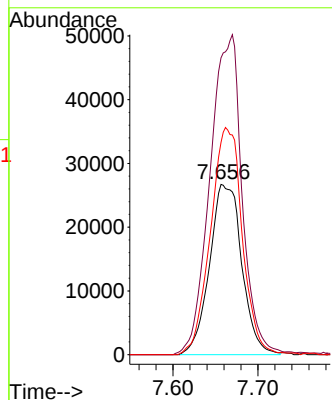
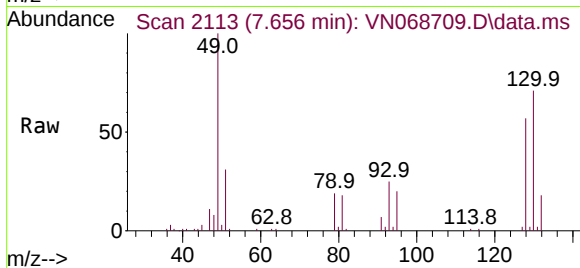




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.656 min Scan# 2113
Delta R.T. -0.003 min
Lab File: VN068709.D
Acq: 27 Sep 2021 19:44

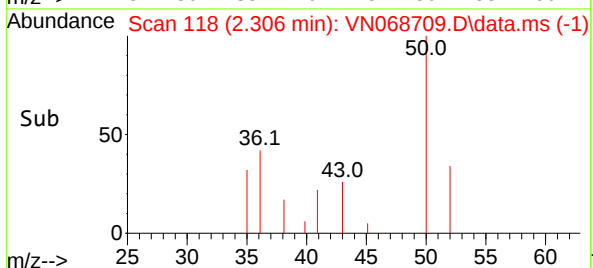
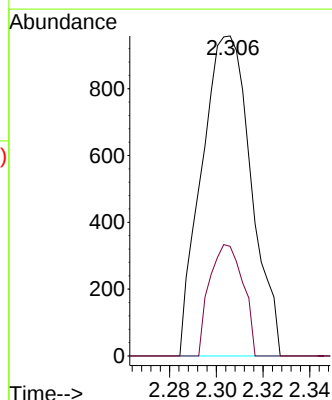
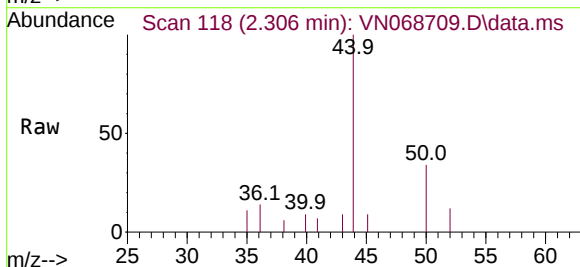
Instrument :
MSVOA_N
ClientSampleId :
EFF-WWRE

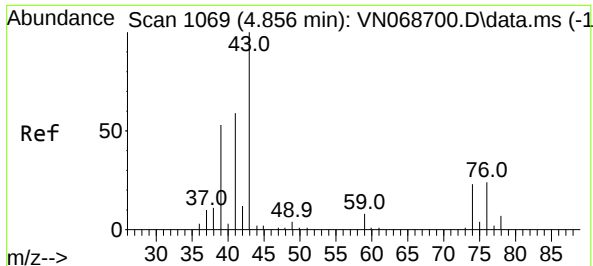
Tgt Ion:128 Resp: 70451
Ion Ratio Lower Upper
128 100
49 186.9 0.0 450.0
130 131.4 0.0 319.5



#3
Chloromethane
Concen: 0.269 ug/l
RT: 2.306 min Scan# 118
Delta R.T. 0.003 min
Lab File: VN068709.D
Acq: 27 Sep 2021 19:44

Tgt Ion: 50 Resp: 1409
Ion Ratio Lower Upper
50 100
52 34.2 27.0 40.6





#12

Methyl Acetate

Concen: 1159.850 ug/l

RT: 4.599 min Scan# 973

Delta R.T. -0.258 min

Lab File: VN068709.D

Acq: 27 Sep 2021 19:44

Instrument :

MSVOA_N

ClientSampled :

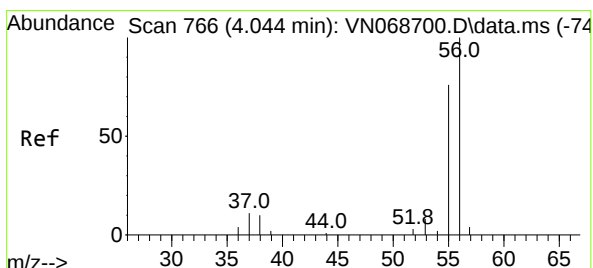
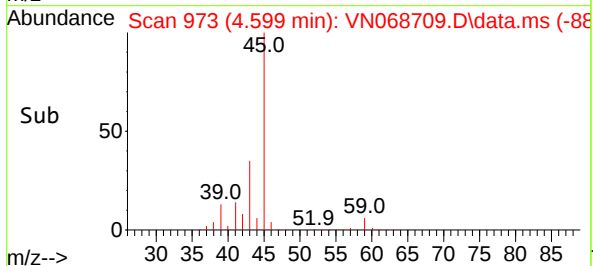
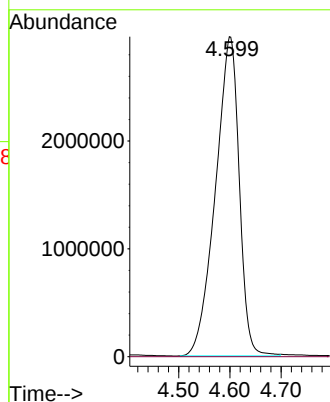
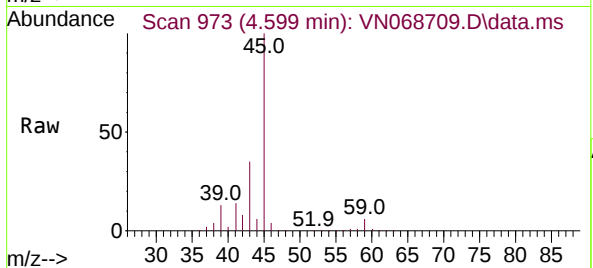
EFF-WWRE

Tgt Ion: 43 Resp: 9533671

Ion Ratio Lower Upper

43 100

74 0.0 16.9 25.3#



#13

Acrolein

Concen: 0.737 ug/l

RT: 4.084 min Scan# 781

Delta R.T. 0.040 min

Lab File: VN068709.D

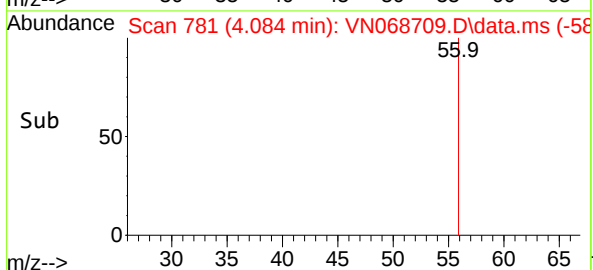
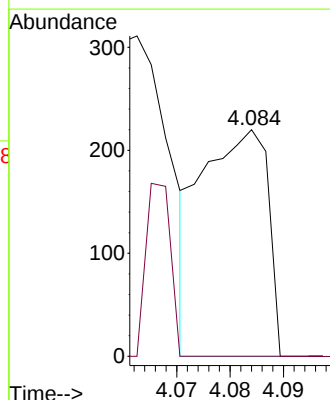
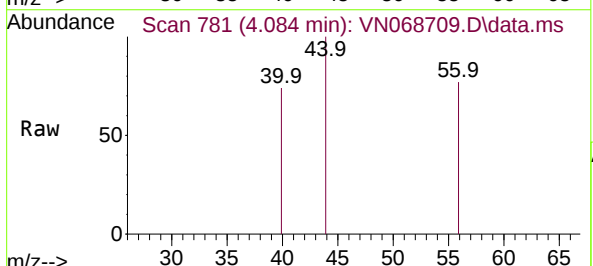
Acq: 27 Sep 2021 19:44

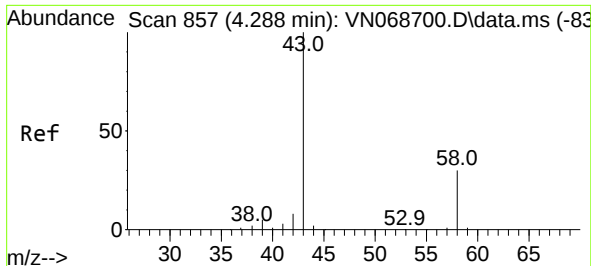
Tgt Ion: 56 Resp: 189

Ion Ratio Lower Upper

56 100

55 28.6 25.4 38.0

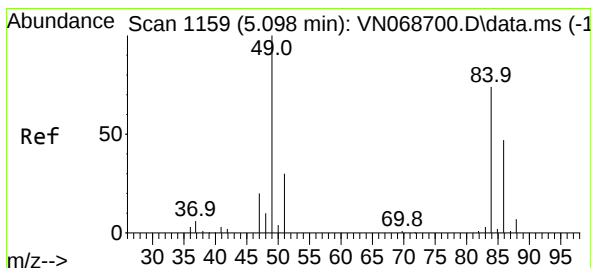
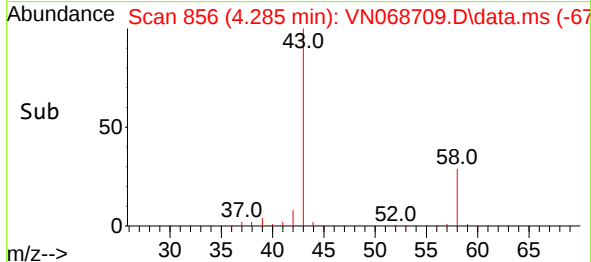
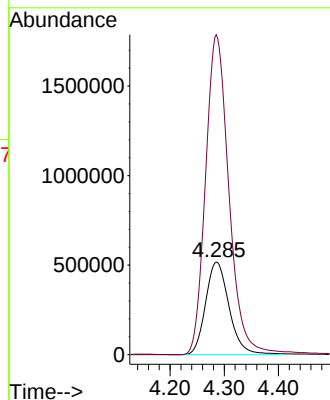
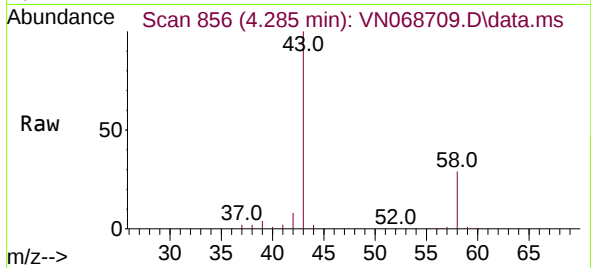




#15
Acetone
Concen: 2320.271 ug/l
RT: 4.285 min Scan# 856
Delta R.T. -0.003 min
Lab File: VN068709.D
Acq: 27 Sep 2021 19:44

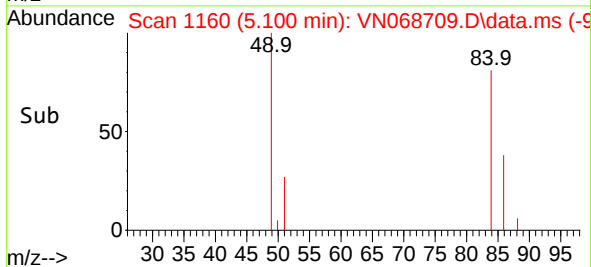
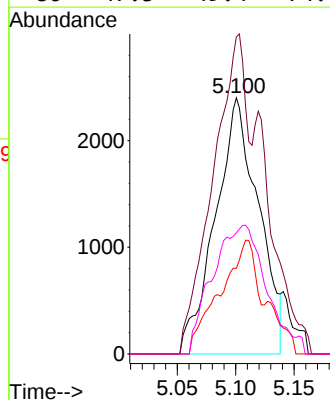
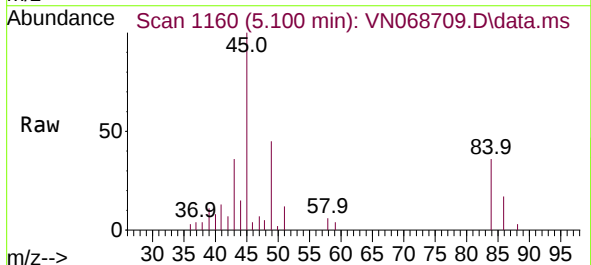
Instrument :
MSVOA_N
ClientSampleId :
EFF-WWRE

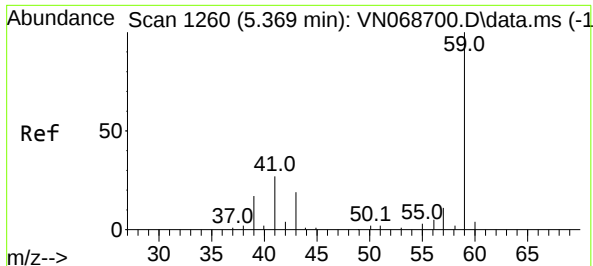
Tgt Ion: 58 Resp: 1564372
Ion Ratio Lower Upper
58 100
43 345.6 261.0 391.4



#18
Methylene Chloride
Concen: 1.298 ug/l
RT: 5.100 min Scan# 1160
Delta R.T. 0.003 min
Lab File: VN068709.D
Acq: 27 Sep 2021 19:44

Tgt Ion: 84 Resp: 6148
Ion Ratio Lower Upper
84 100
49 123.8 102.2 153.2
51 33.4 33.0 49.4
86 47.3 49.4 74.0#

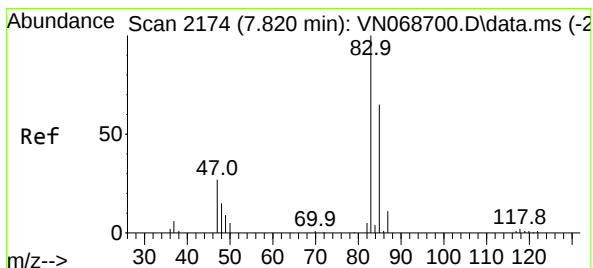
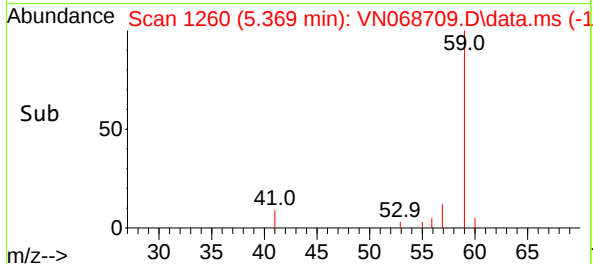
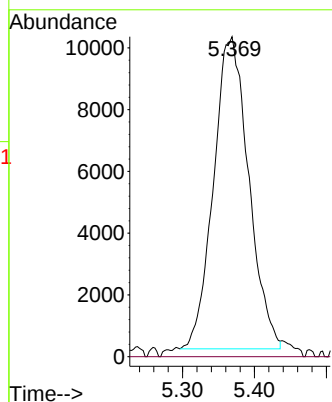
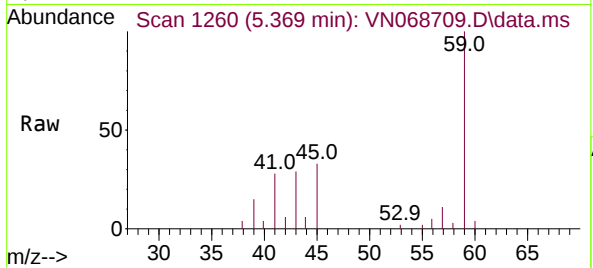




#23
tert-Butyl Alcohol
Concen: 42.050 ug/l
RT: 5.369 min Scan# 1260
Delta R.T. -0.000 min
Lab File: VN068709.D
Acq: 27 Sep 2021 19:44

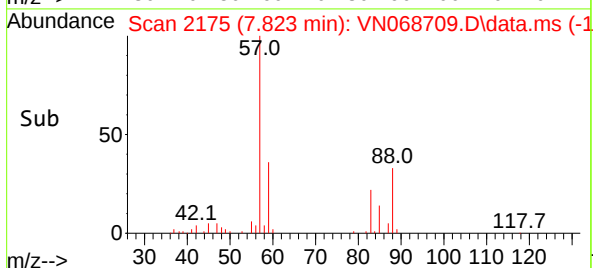
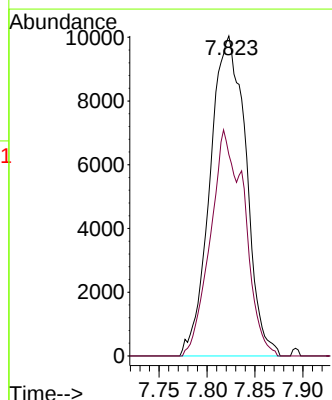
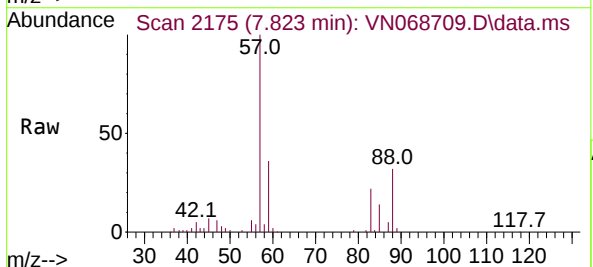
Instrument :
MSVOA_N
ClientSampleId :
EFF-WWRE

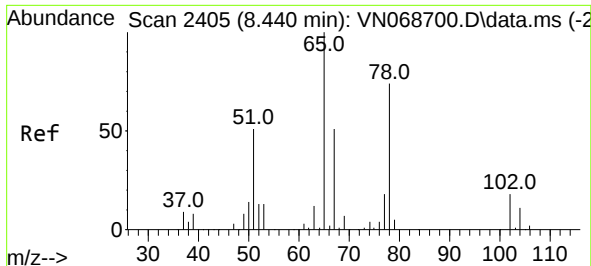
Tgt Ion: 59 Resp: 34287
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 2.721 ug/l
RT: 7.823 min Scan# 2175
Delta R.T. 0.003 min
Lab File: VN068709.D
Acq: 27 Sep 2021 19:44

Tgt Ion: 83 Resp: 26144
Ion Ratio Lower Upper
83 100
85 63.0 52.9 79.3



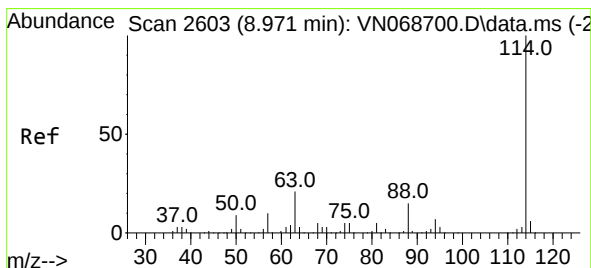
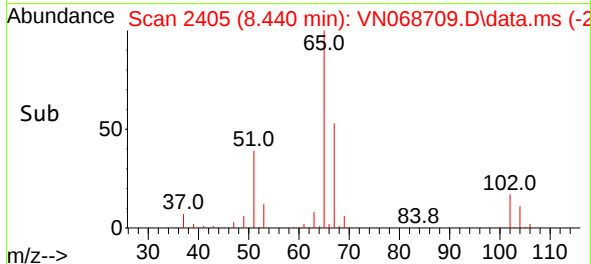
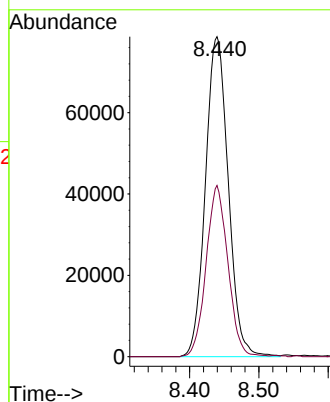
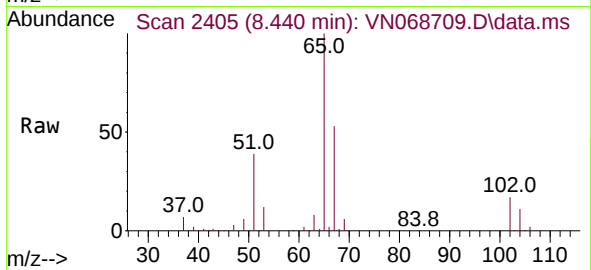


#27

1,2-Dichloroethane-d4
Concen: 27.731 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. -0.000 min
Lab File: VN068709.D
Acq: 27 Sep 2021 19:44

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWRE

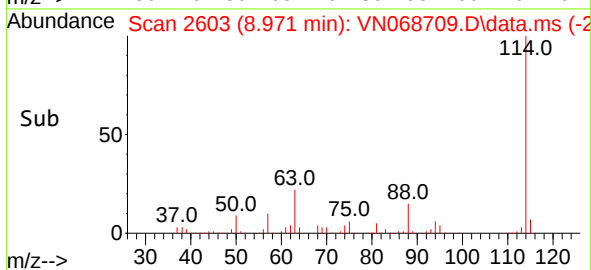
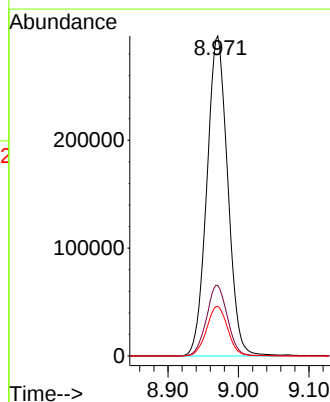
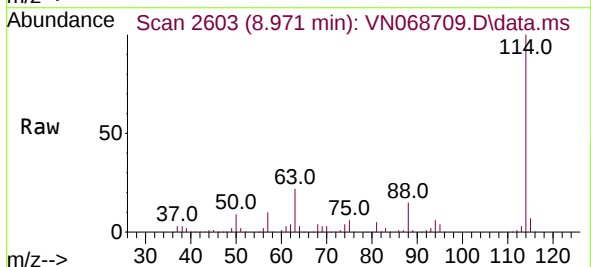
Tgt Ion: 65 Resp: 180345
Ion Ratio Lower Upper
65 100
67 51.1 41.0 61.6

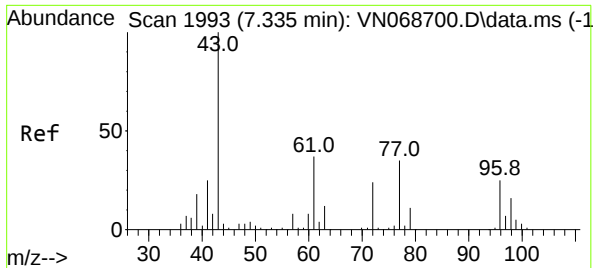


#28

1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.971 min Scan# 2603
Delta R.T. -0.000 min
Lab File: VN068709.D
Acq: 27 Sep 2021 19:44

Tgt Ion: 114 Resp: 609069
Ion Ratio Lower Upper
114 100
63 22.2 17.1 25.7
88 15.7 12.2 18.4

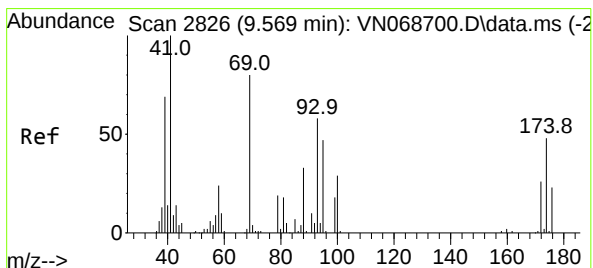
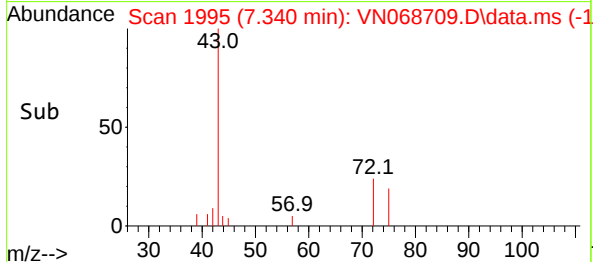
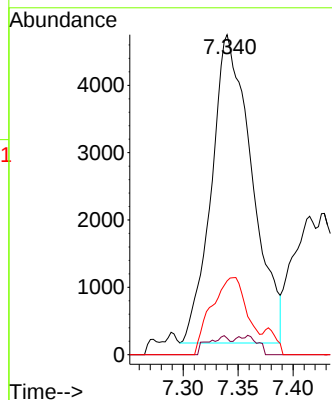
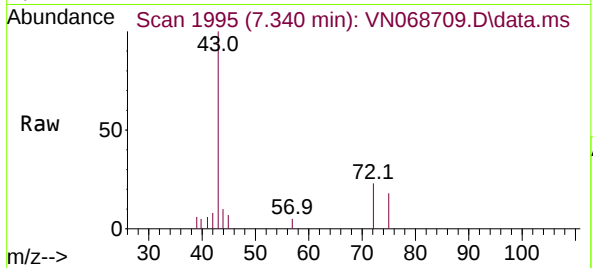




#30
2-Butanone
Concen: 2.087 ug/l
RT: 7.340 min Scan# 1995
Delta R.T. 0.005 min
Lab File: VN068709.D
Acq: 27 Sep 2021 19:44

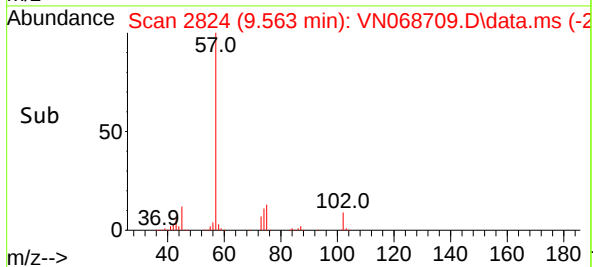
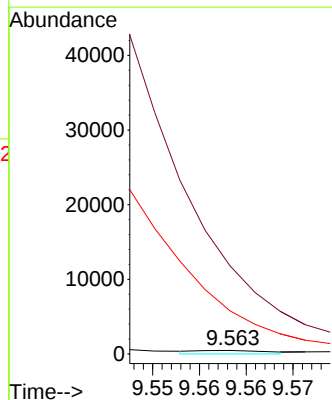
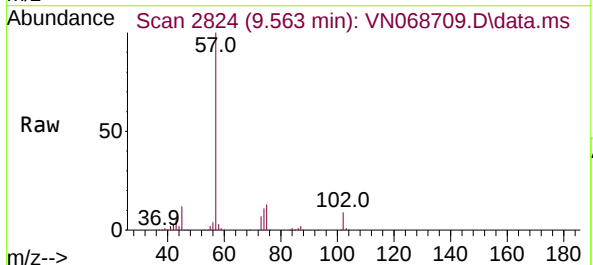
Instrument :
MSVOA_N
ClientSampleId :
EFF-WWRE

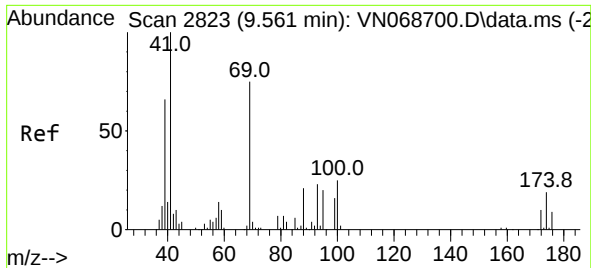
Tgt Ion: 43 Resp: 11715
Ion Ratio Lower Upper
43 100
57 1.3 6.4 9.6#
72 0.0 19.6 29.4#



#45
1,4-Dioxane
Concen: 1.706 ug/l
RT: 9.563 min Scan# 2824
Delta R.T. -0.005 min
Lab File: VN068709.D
Acq: 27 Sep 2021 19:44

Tgt Ion: 88 Resp: 250
Ion Ratio Lower Upper
88 100
43 0.0 27.3 40.9#
58 0.0 55.0 82.6#

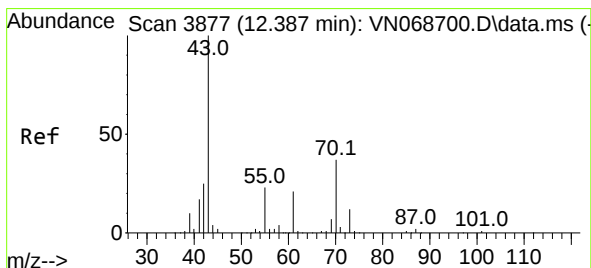
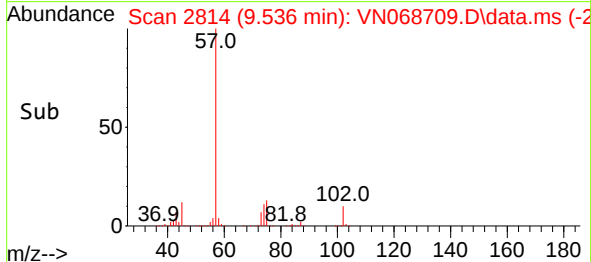
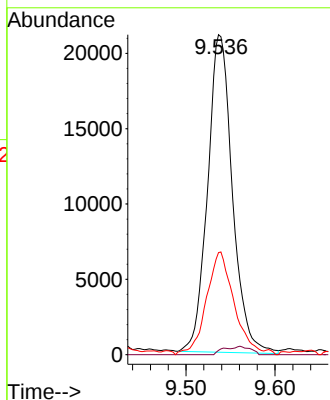
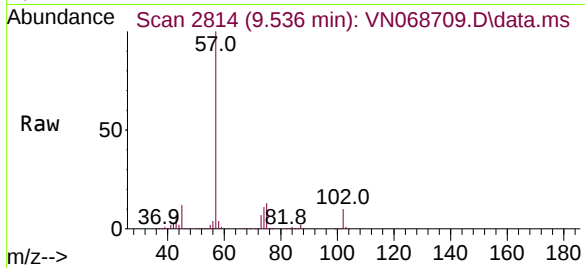




#46
Methyl methacrylate
Concen: 3.889 ug/l
RT: 9.536 min Scan# 2814
Delta R.T. -0.024 min
Lab File: VN068709.D
Acq: 27 Sep 2021 19:44

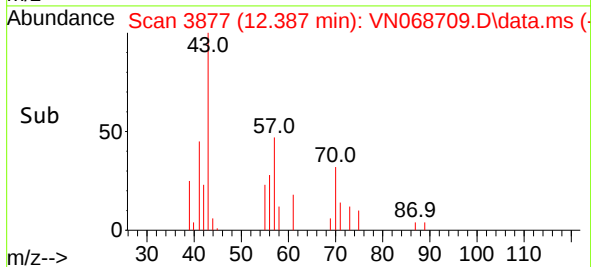
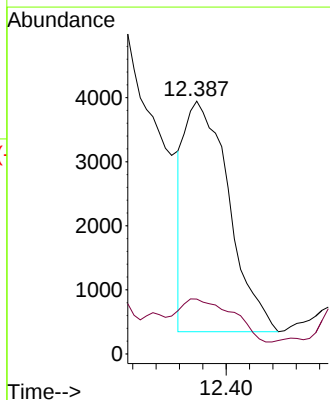
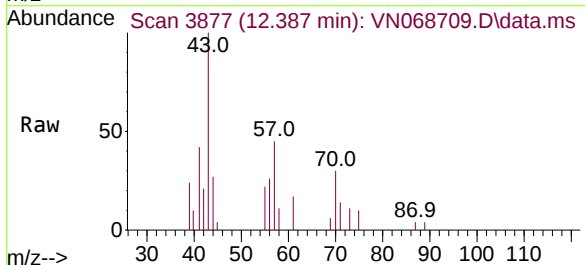
Instrument :
MSVOA_N
ClientSampleId :
EFF-WWRE

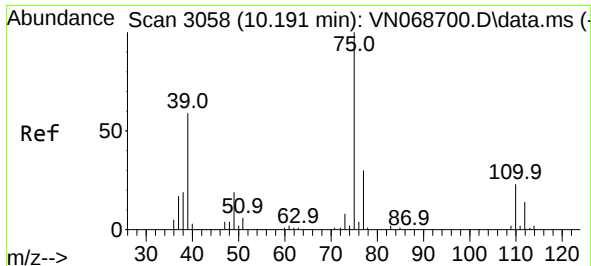
Tgt Ion: 41 Resp: 40823
Ion Ratio Lower Upper
41 100
69 1.3 39.6 118.8#
39 32.2 34.0 102.0#



#47
n-amy1 Acetate
Concen: 0.258 ug/l
RT: 12.387 min Scan# 3877
Delta R.T. -0.000 min
Lab File: VN068709.D
Acq: 27 Sep 2021 19:44

Tgt Ion: 43 Resp: 4763
Ion Ratio Lower Upper
43 100
55 22.2 18.6 27.8

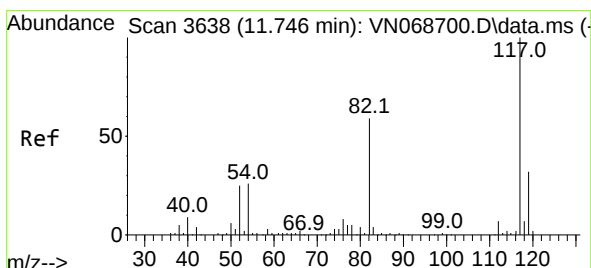
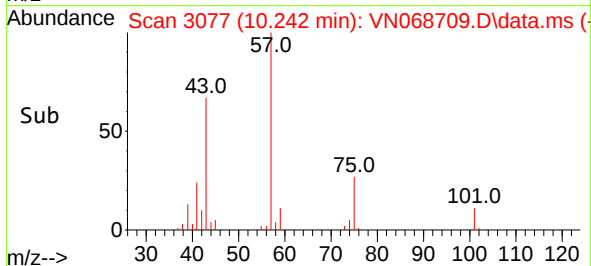
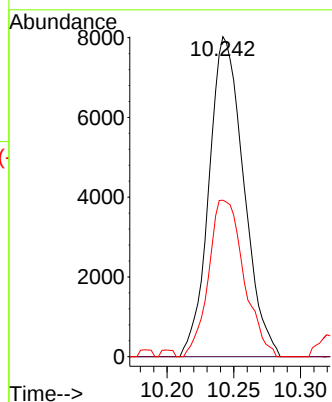
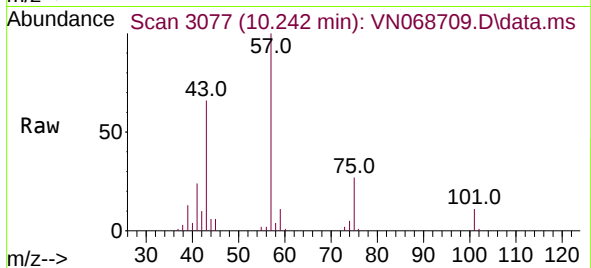




#49
cis-1,3-Dichloropropene
Concen: 1.037 ug/l
RT: 10.242 min Scan# 3077
Delta R.T. 0.051 min
Lab File: VN068709.D
Acq: 27 Sep 2021 19:44

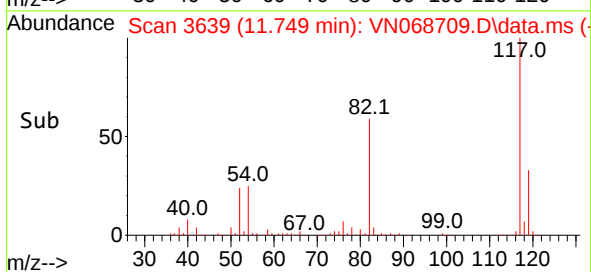
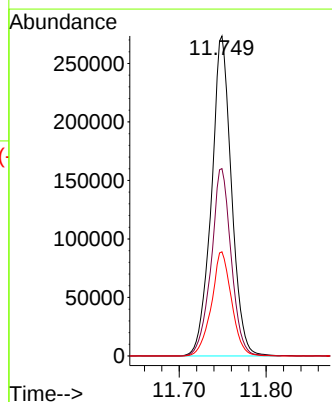
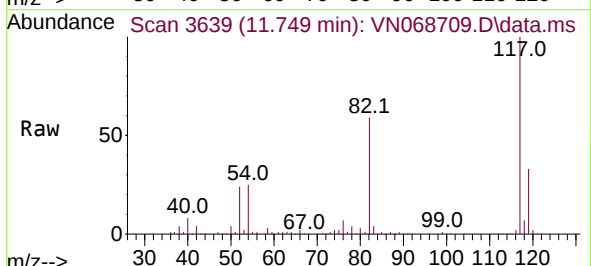
Instrument :
MSVOA_N
ClientSampleId :
EFF-WWRE

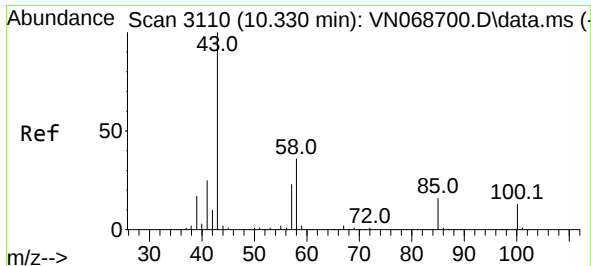
Tgt Ion: 75 Resp: 14494
Ion Ratio Lower Upper
75 100
77 0.0 24.2 36.4#
39 48.9 46.2 69.2



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.749 min Scan# 3639
Delta R.T. 0.003 min
Lab File: VN068709.D
Acq: 27 Sep 2021 19:44

Tgt Ion: 117 Resp: 438575
Ion Ratio Lower Upper
117 100
82 58.5 44.6 66.8
119 32.6 25.7 38.5

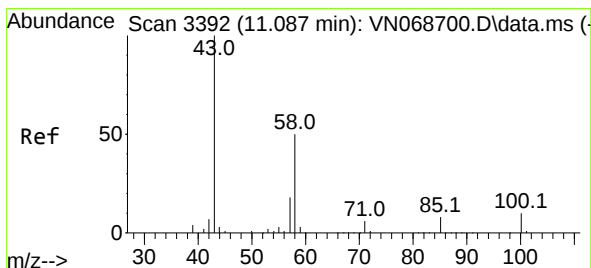
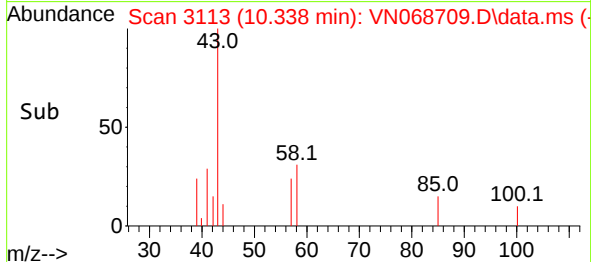
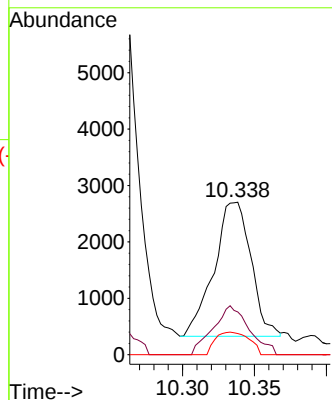
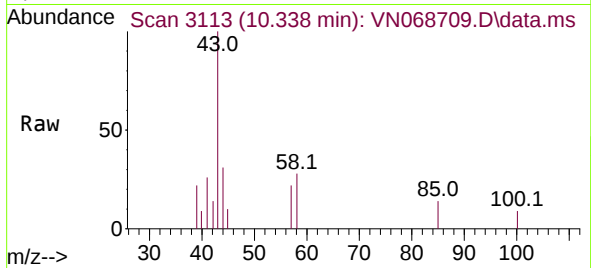




#58
4-Methyl-2-Pentanone
Concen: 0.446 ug/l
RT: 10.338 min Scan# 3113
Delta R.T. 0.008 min
Lab File: VN068709.D
Acq: 27 Sep 2021 19:44

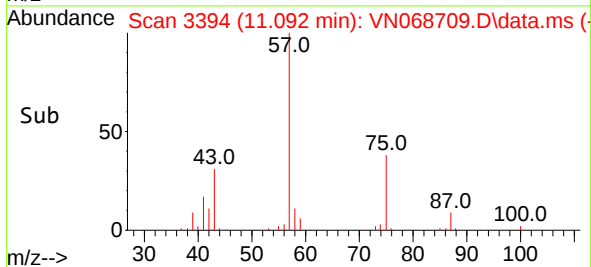
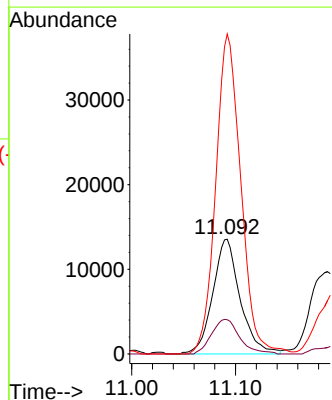
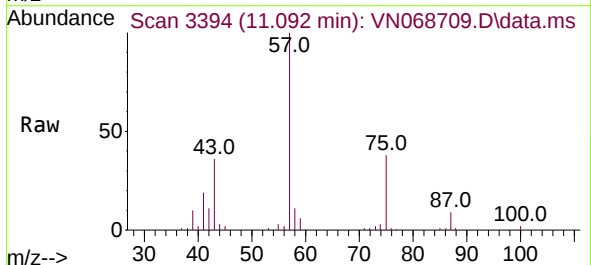
Instrument :
MSVOA_N
ClientSampleId :
EFF-WWRE

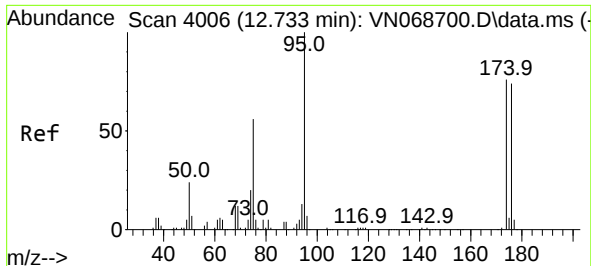
Tgt Ion: 43 Resp: 4256
Ion Ratio Lower Upper
43 100
58 35.7 28.5 42.7
85 15.3 12.8 19.2



#59
2-Hexanone
Concen: 3.478 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.005 min
Lab File: VN068709.D
Acq: 27 Sep 2021 19:44

Tgt Ion: 43 Resp: 24870
Ion Ratio Lower Upper
43 100
58 31.0 39.5 59.3#
57 255.7 14.3 21.5#

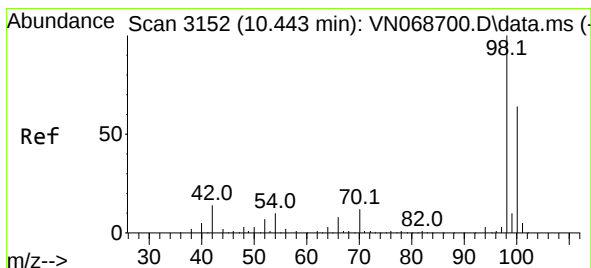
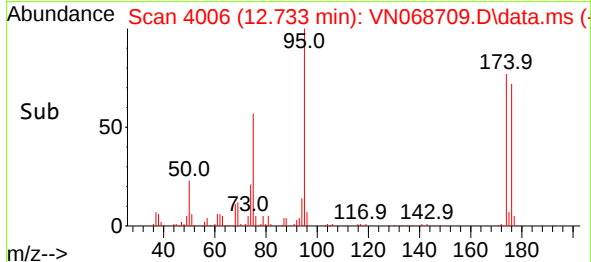
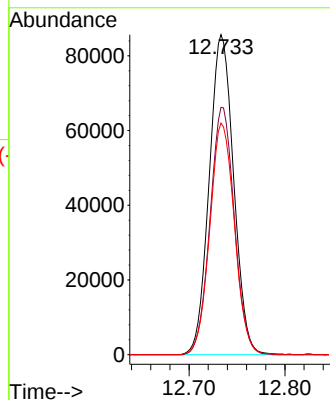
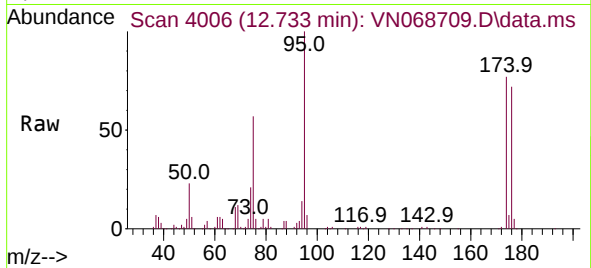




#60
4-Bromofluorobenzene
Concen: 19.317 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.000 min
Lab File: VN068709.D
Acq: 27 Sep 2021 19:44

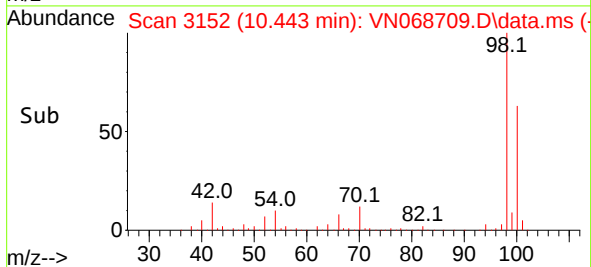
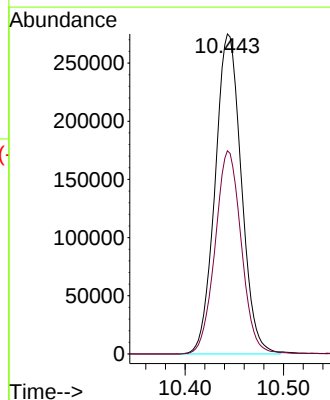
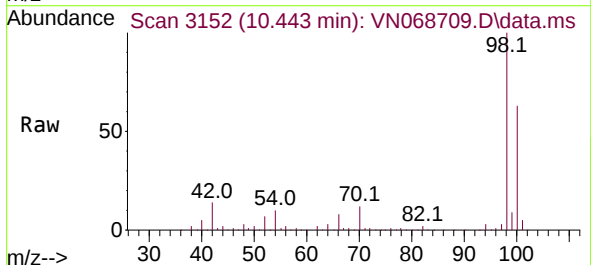
Instrument :
MSVOA_N
ClientSampleId :
EFF-WWRE

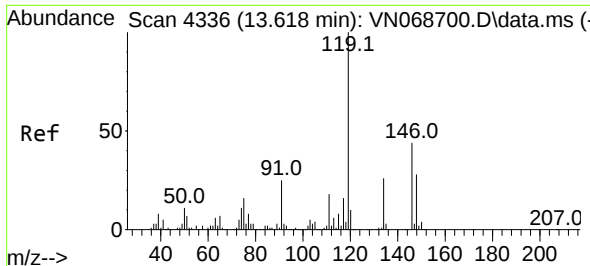
Tgt Ion: 95 Resp: 151452
Ion Ratio Lower Upper
95 100
174 77.1 63.0 94.6
176 73.0 60.6 90.8



#63
Toluene-d8
Concen: 24.929 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. -0.000 min
Lab File: VN068709.D
Acq: 27 Sep 2021 19:44

Tgt Ion: 98 Resp: 510579
Ion Ratio Lower Upper
98 100
100 63.4 51.4 77.2

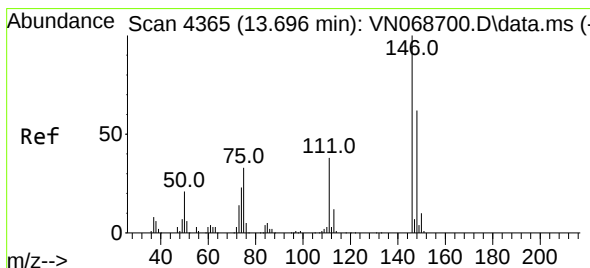
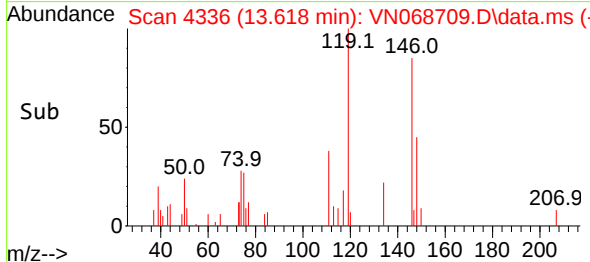
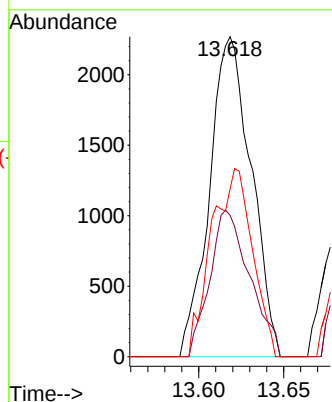
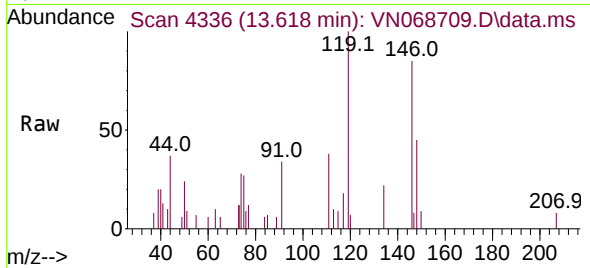




#83
1,3-Dichlorobenzene
Concen: 0.315 ug/l
RT: 13.618 min Scan# 4336
Delta R.T. -0.000 min
Lab File: VN068709.D
Acq: 27 Sep 2021 19:44

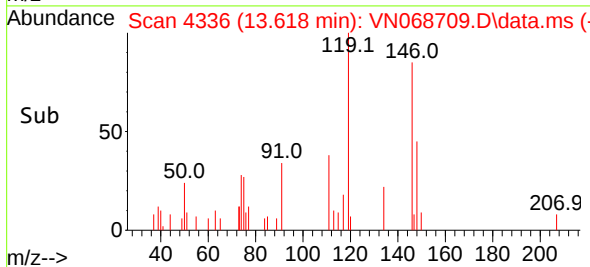
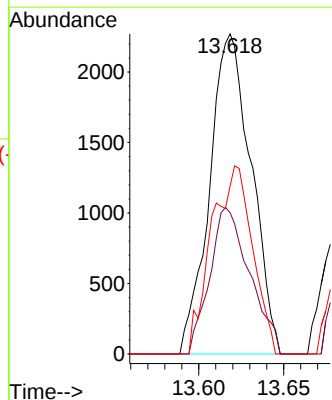
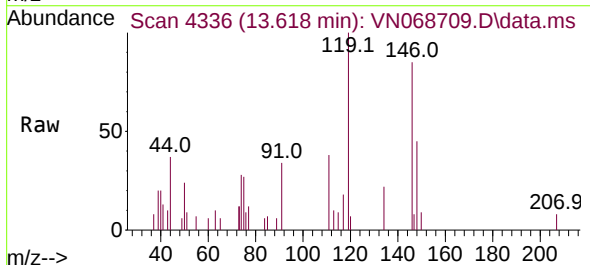
Instrument :
MSVOA_N
ClientSampleId :
EFF-WWRE

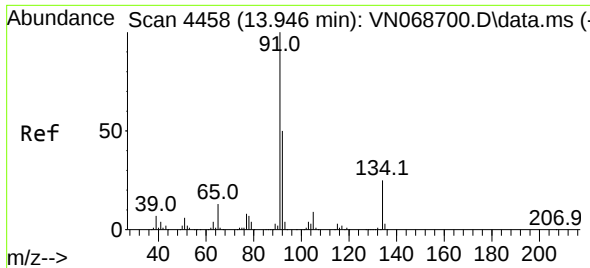
Tgt Ion:146	Resp:	3880
Ion Ratio	Lower	Upper
146	100	
111	43.8	20.4 61.3
148	33.5	31.8 95.3



#84
1,4-Dichlorobenzene
Concen: 0.343 ug/l
RT: 13.618 min Scan# 4336
Delta R.T. -0.078 min
Lab File: VN068709.D
Acq: 27 Sep 2021 19:44

Tgt Ion:146	Resp:	3880
Ion Ratio	Lower	Upper
146	100	
111	43.8	19.6 58.8
148	33.5	31.8 95.4

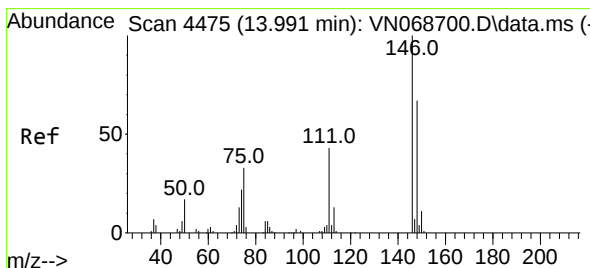
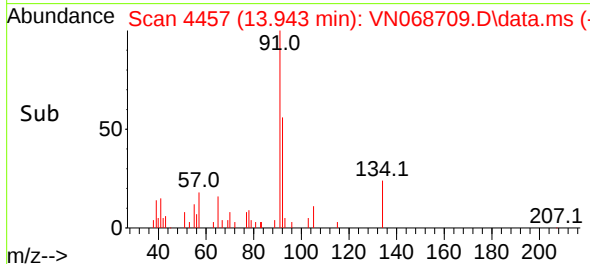
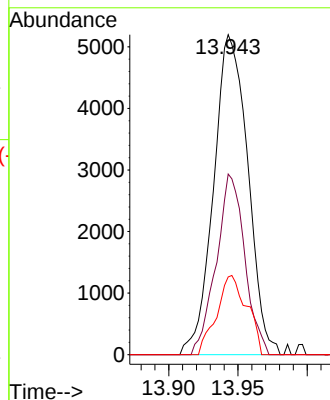
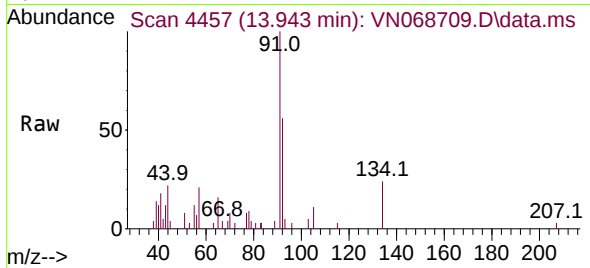




#85
n-Butylbenzene
Concen: 0.436 ug/l
RT: 13.943 min Scan# 4457
Delta R.T. -0.003 min
Lab File: VN068709.D
Acq: 27 Sep 2021 19:44

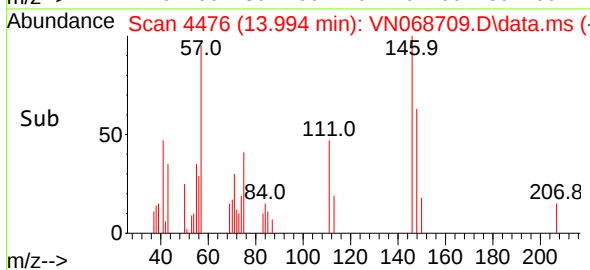
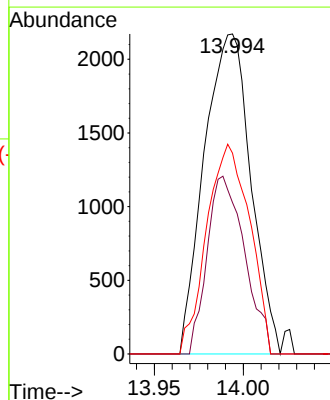
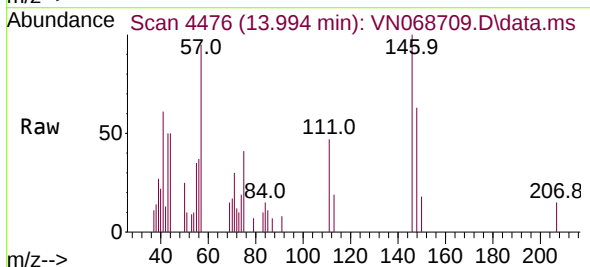
Instrument :
MSVOA_N
ClientSampleId :
EFF-WWRE

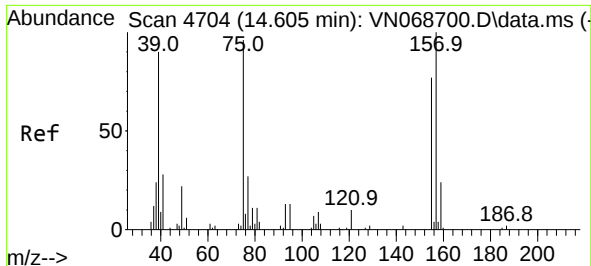
Tgt Ion: 91	Resp: 8926
Ion Ratio	Lower Upper
91	100
92	47.0 0.0 101.6
134	18.7 0.0 49.6



#87
1,2-Dichlorobenzene
Concen: 0.356 ug/l
RT: 13.994 min Scan# 4476
Delta R.T. 0.003 min
Lab File: VN068709.D
Acq: 27 Sep 2021 19:44

Tgt Ion: 146	Resp: 3954
Ion Ratio	Lower Upper
146	100
111	44.6 21.5 64.5
148	60.4 31.9 95.9

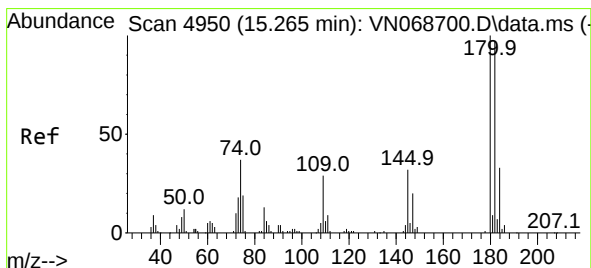
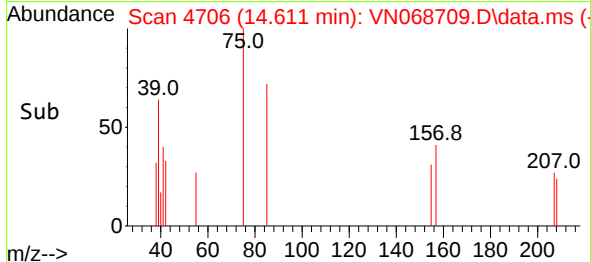
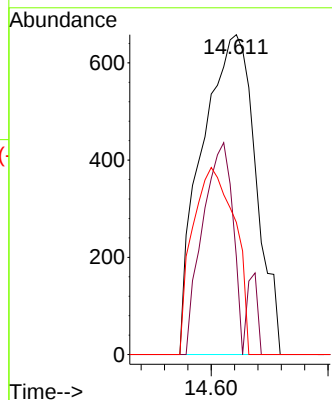
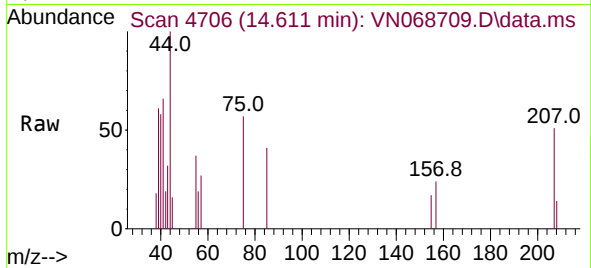




#88
1,2-Dibromo-3-Chloropropane
Concen: 0.595 ug/l
RT: 14.611 min Scan# 4706
Delta R.T. 0.005 min
Lab File: VN068709.D
Acq: 27 Sep 2021 19:44

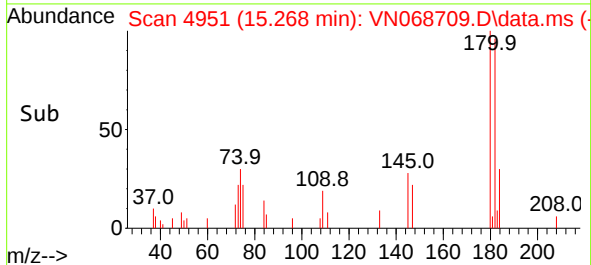
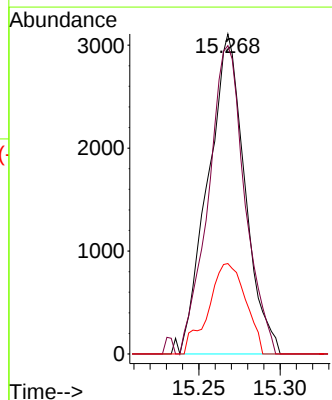
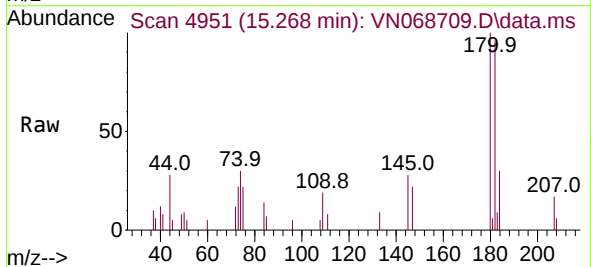
Instrument :
MSVOA_N
ClientSampleId :
EFF-WWRE

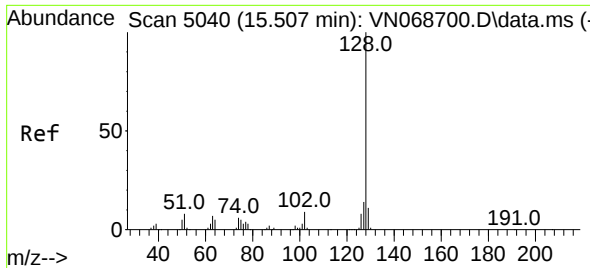
Tgt Ion: 75 Resp: 1055
Ion Ratio Lower Upper
75 100
155 37.1 63.2 94.8#
157 45.8 78.6 117.8#



#89
1,2,4-Trichlorobenzene
Concen: 0.877 ug/l
RT: 15.268 min Scan# 4951
Delta R.T. 0.003 min
Lab File: VN068709.D
Acq: 27 Sep 2021 19:44

Tgt Ion: 180 Resp: 4885
Ion Ratio Lower Upper
180 100
182 95.6 75.6 113.4
145 26.4 24.5 36.7

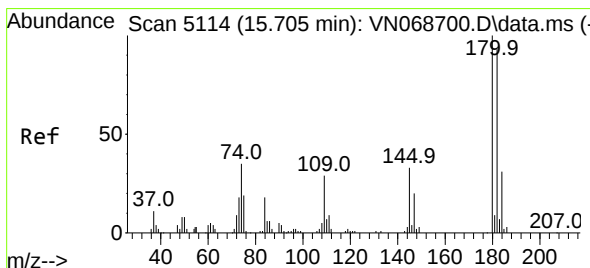
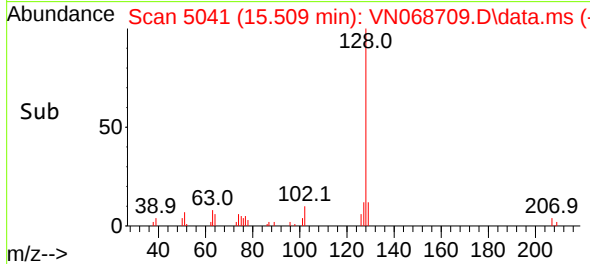
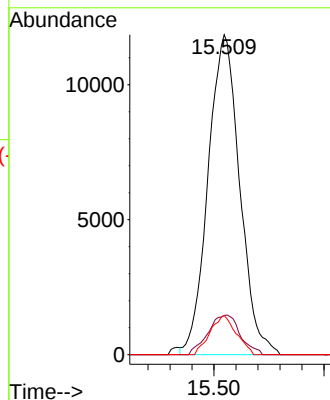
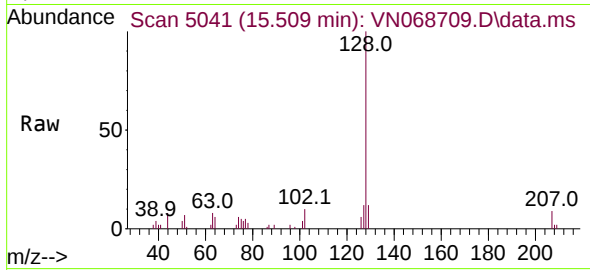




#91
Naphthalene
Concen: 1.637 ug/l
RT: 15.509 min Scan# 5041
Delta R.T. 0.003 min
Lab File: VN068709.D
Acq: 27 Sep 2021 19:44

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWRE

Tgt Ion:128	Resp:	23714
Ion Ratio	Lower	Upper
128	100	
127	12.6	10.9 16.3
129	10.1	9.0 13.6



#92
1,2,3-Trichlorobenzene
Concen: 0.603 ug/l
RT: 15.700 min Scan# 5112
Delta R.T. -0.005 min
Lab File: VN068709.D
Acq: 27 Sep 2021 19:44

Tgt Ion:180	Resp:	3196
Ion Ratio	Lower	Upper
180	100	
182	76.4	0.0 190.0
145	39.2	0.0 66.8

