

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092821\
 Data File : VN068731.D
 Acq On : 28 Sep 2021 20:54
 Operator : JC/MD
 Sample : M3760-01 5X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WW

Quant Time: Sep 29 05:17:58 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N092821W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 29 05:13:39 2021
 Response via : Initial Calibration

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

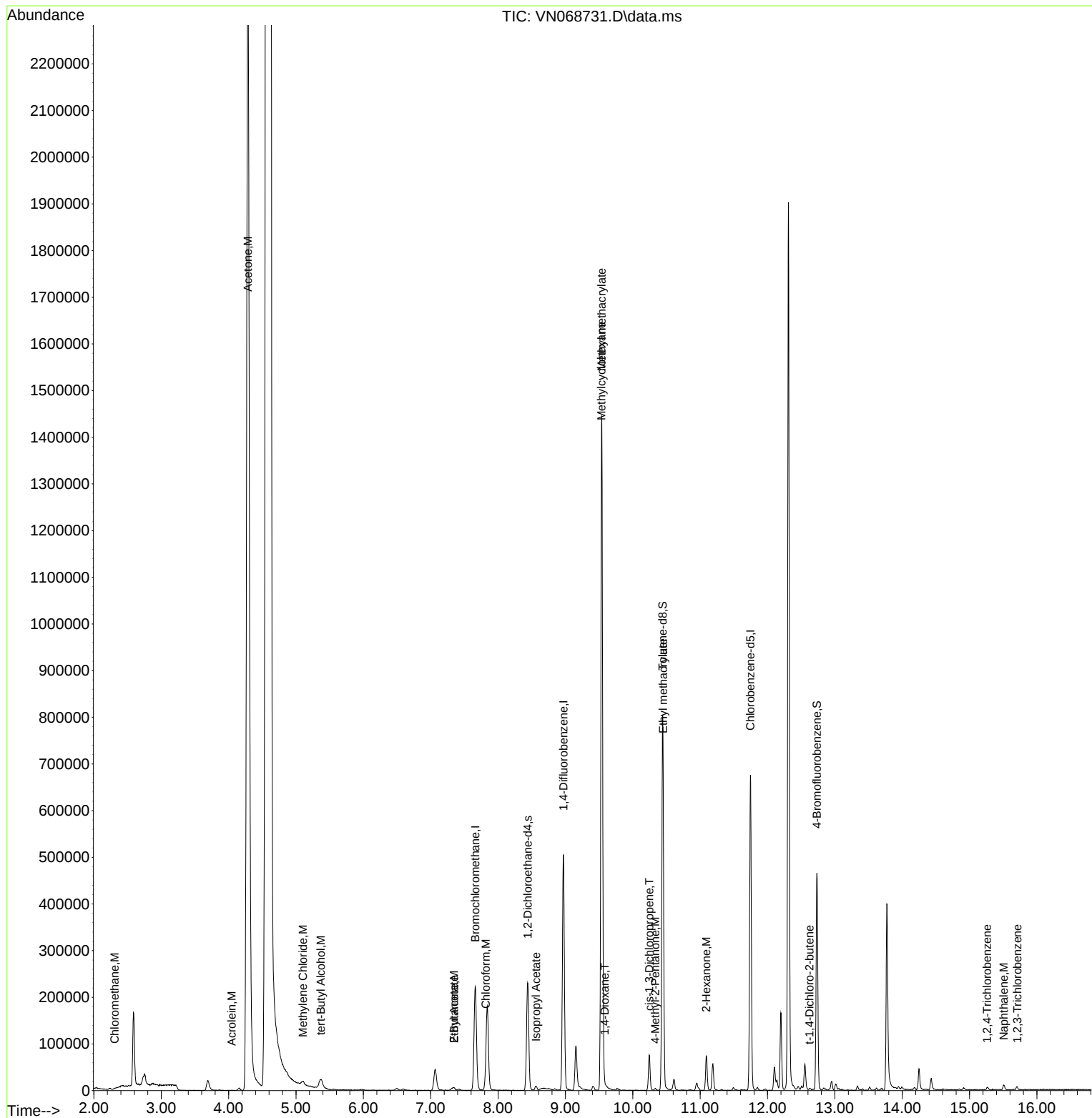
Internal Standards						
1) Bromochloromethane	7.662	128	79625	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	435078	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	378157	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	189775	30.920	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.067%
60) 4-Bromofluorobenzene	12.734	95	151042	25.567	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	85.233%
63) Toluene-d8	10.443	98	552167	32.304	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	107.667%
Target Compounds						
					Qvalue	
3) Chloromethane	2.306	50	1070	0.237	ug/l #	84
13) Acrolein	4.044	56	258	0.906	ug/l #	14
15) Acetone	4.285	58	1345699	2230.738	ug/l	91
18) Methylene Chloride	5.103	84	4085	0.828	ug/l #	77
23) tert-Butyl Alcohol	5.369	59	35810	44.318	ug/l #	100
25) Chloroform	7.818	83	26274	2.646	ug/l	98
30) 2-Butanone	7.346	43	7875	2.536	ug/l #	95
38) Methylcyclohexane	9.534	83	4956	0.579	ug/l #	1
43) Ethyl Acetate	7.346	43	7875	1.269	ug/l #	73
44) Isopropyl Acetate	8.563	43	10727	0.954	ug/l #	65
45) 1,4-Dioxane	9.582	88	94	1.033	ug/l #	36
46) Methyl methacrylate	9.539	41	23999	4.826	ug/l #	27
49) cis-1,3-Dichloropropene	10.245	75	13214	1.513	ug/l #	65
51) Ethyl methacrylate	10.451	69	1885	0.225	ug/l	85
58) 4-Methyl-2-Pentanone	10.333	43	2441	0.382	ug/l #	75
59) 2-Hexanone	11.090	43	16472	3.543	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.624	75	576	0.252	ug/l #	8
89) 1,2,4-Trichlorobenzene	15.260	180	2132	0.435	ug/l #	92
91) Naphthalene	15.507	128	9946	0.719	ug/l	95
92) 1,2,3-Trichlorobenzene	15.711	180	1440	0.307	ug/l	75

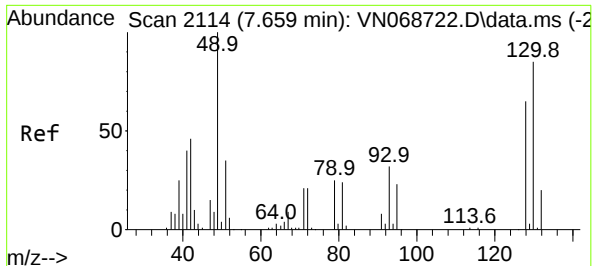
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 29 05:17:58 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N092821W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Sep 29 05:13:39 2021
Response via : Initial Calibration

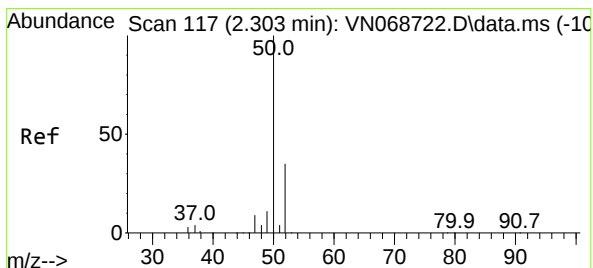
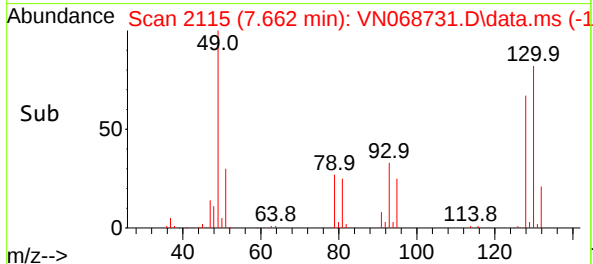
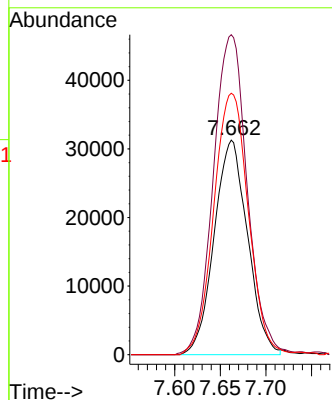
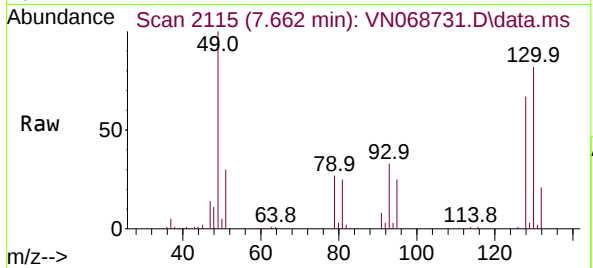




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.662 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VN068731.D
Acq: 28 Sep 2021 20:54

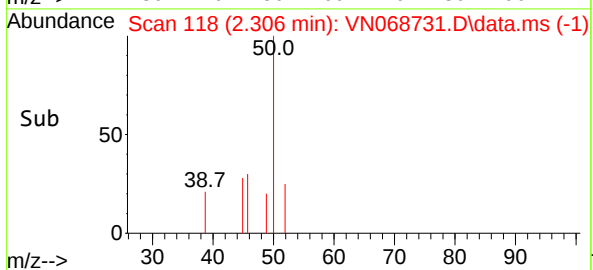
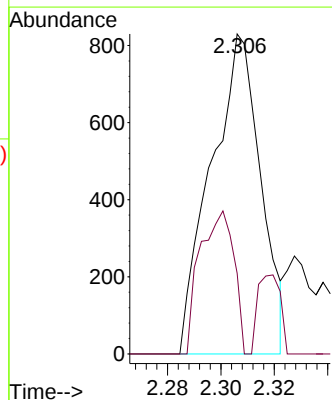
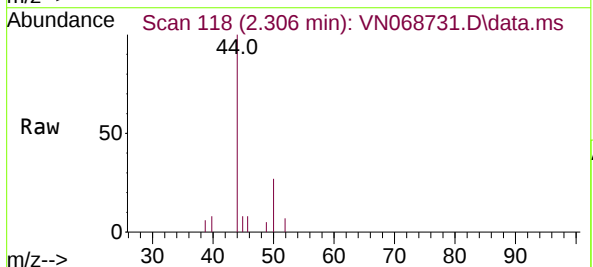
Instrument :
MSVOA_N
ClientSampled :
EFF-WW

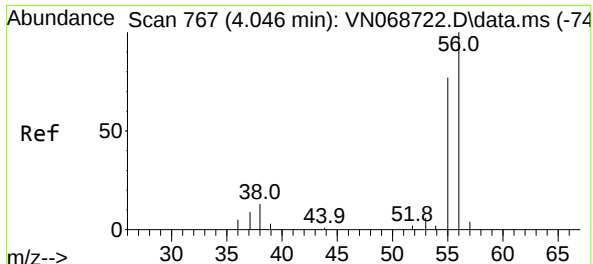
Tgt Ion:128 Resp: 79625
Ion Ratio Lower Upper
128 100
49 151.5 0.0 392.3
130 126.2 0.0 320.2



#3
Chloromethane
Concen: 0.237 ug/l
RT: 2.306 min Scan# 118
Delta R.T. 0.003 min
Lab File: VN068731.D
Acq: 28 Sep 2021 20:54

Tgt Ion: 50 Resp: 1070
Ion Ratio Lower Upper
50 100
52 25.2 27.8 41.6#

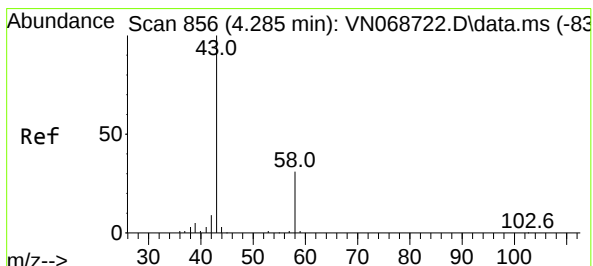
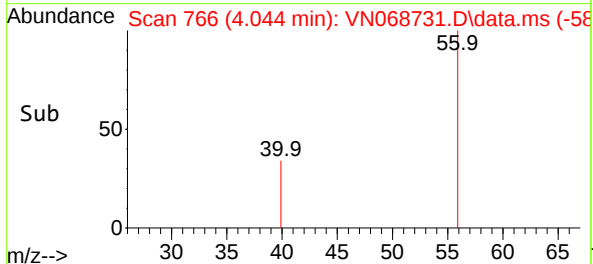
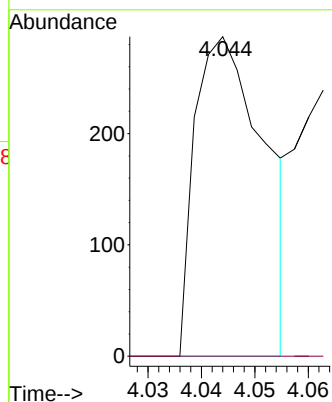
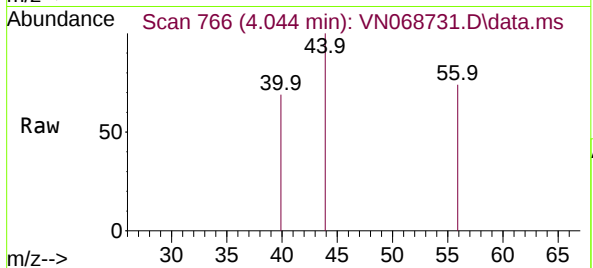




#13
Acrolein
Concen: 0.906 ug/l
RT: 4.044 min Scan# 766
Delta R.T. -0.002 min
Lab File: VN068731.D
Acq: 28 Sep 2021 20:54

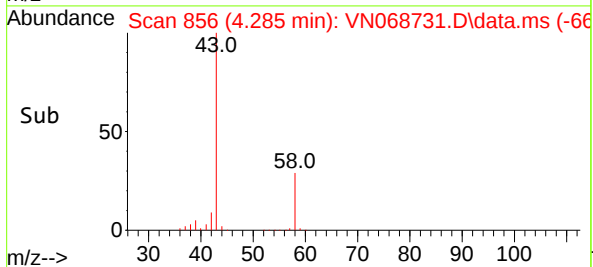
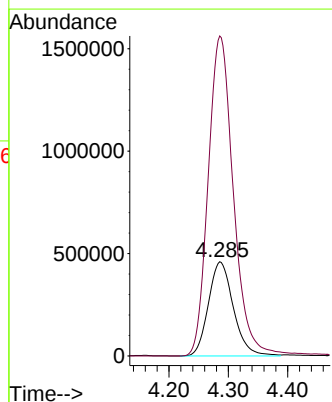
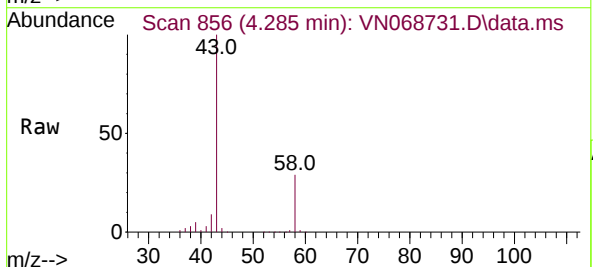
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

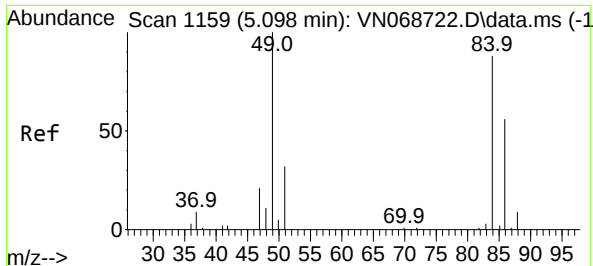
Tgt Ion: 56 Resp: 258
Ion Ratio Lower Upper
56 100
55 0.0 57.6 86.4#



#15
Acetone
Concen: 2230.738 ug/l
RT: 4.285 min Scan# 856
Delta R.T. 0.000 min
Lab File: VN068731.D
Acq: 28 Sep 2021 20:54

Tgt Ion: 58 Resp: 1345699
Ion Ratio Lower Upper
58 100
43 339.7 256.6 384.8





#18

Methylene Chloride

Concen: 0.828 ug/l

RT: 5.103 min Scan# 1161

Delta R.T. 0.005 min

Lab File: VN068731.D

Acq: 28 Sep 2021 20:54

Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

Tgt Ion: 84 Resp: 4085

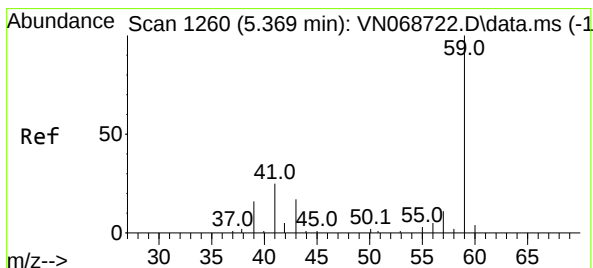
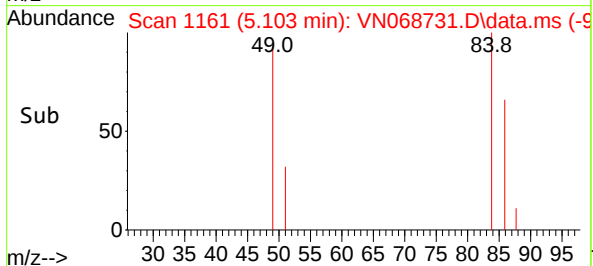
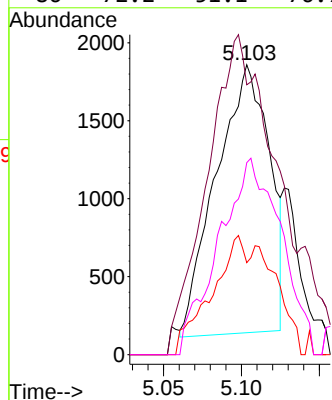
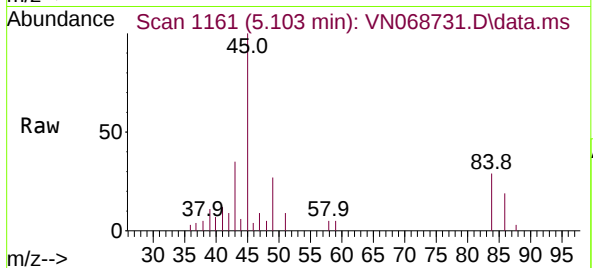
Ion Ratio Lower Upper

84 100

49 80.0 91.4 137.0#

51 25.3 29.4 44.0#

86 72.2 51.1 76.7



#23

tert-Butyl Alcohol

Concen: 44.318 ug/l

RT: 5.369 min Scan# 1260

Delta R.T. -0.000 min

Lab File: VN068731.D

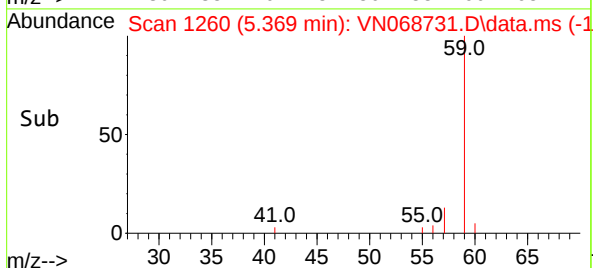
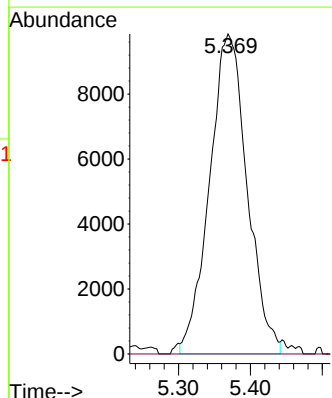
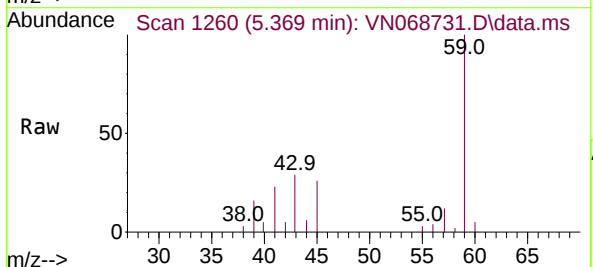
Acq: 28 Sep 2021 20:54

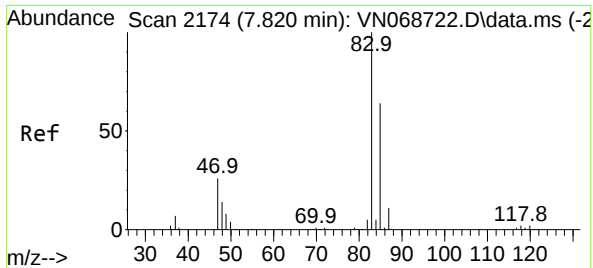
Tgt Ion: 59 Resp: 35810

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0

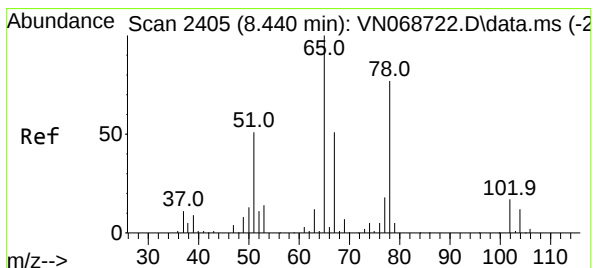
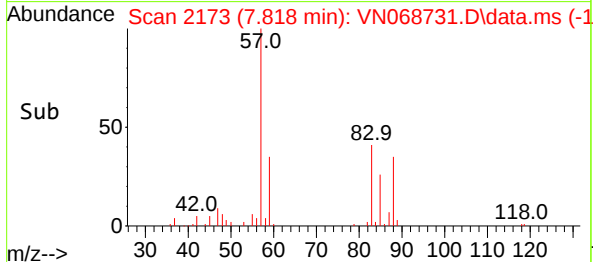
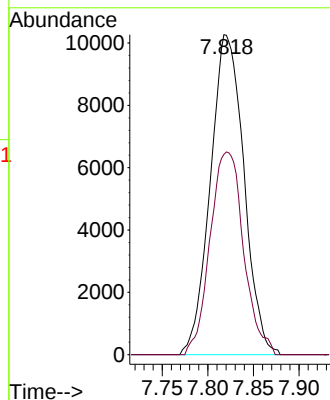
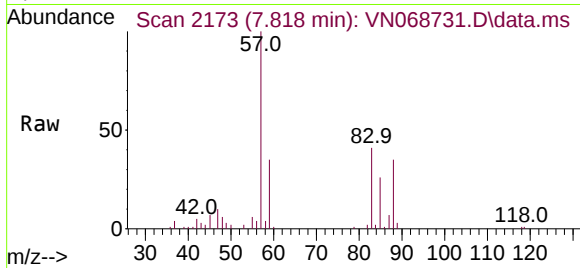




#25
Chloroform
Concen: 2.646 ug/l
RT: 7.818 min Scan# 2173
Delta R.T. -0.002 min
Lab File: VN068731.D
Acq: 28 Sep 2021 20:54

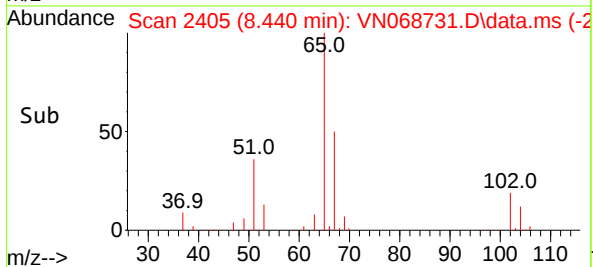
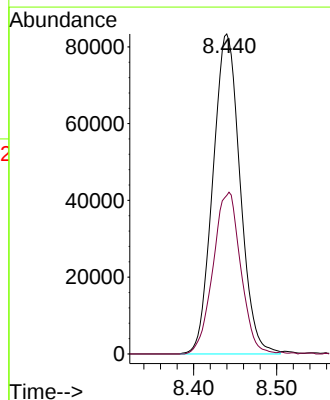
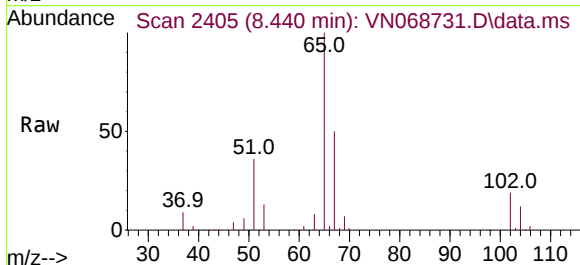
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

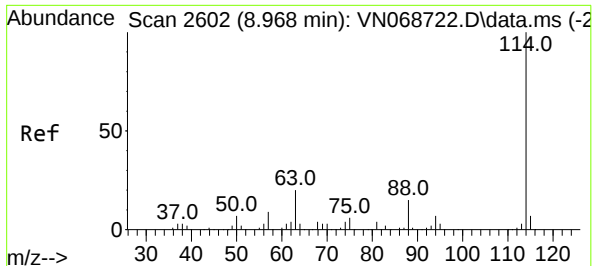
Tgt Ion: 83 Resp: 26274
Ion Ratio Lower Upper
83 100
85 62.6 51.3 76.9



#27
1,2-Dichloroethane-d4
Concen: 30.920 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. -0.000 min
Lab File: VN068731.D
Acq: 28 Sep 2021 20:54

Tgt Ion: 65 Resp: 189775
Ion Ratio Lower Upper
65 100
67 51.3 40.2 60.2

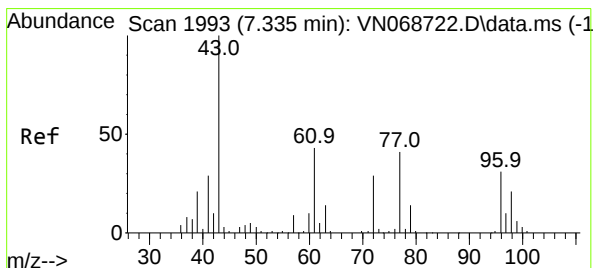
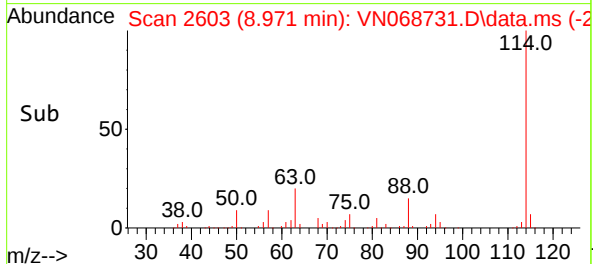
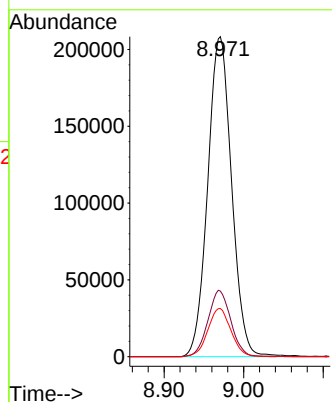
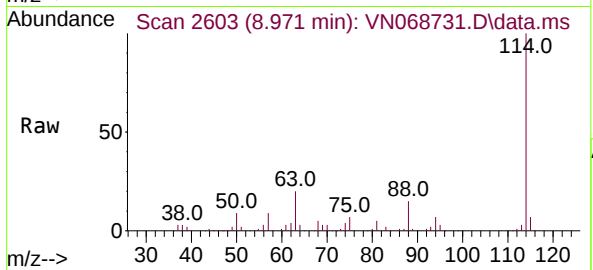




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.971 min Scan# 2603
Delta R.T. 0.003 min
Lab File: VN068731.D
Acq: 28 Sep 2021 20:54

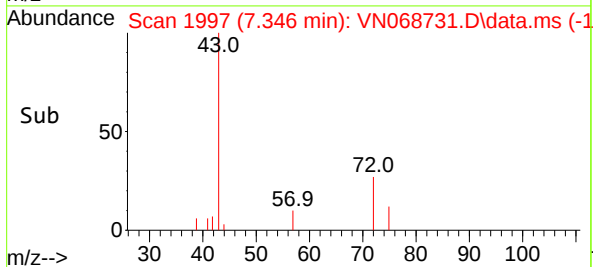
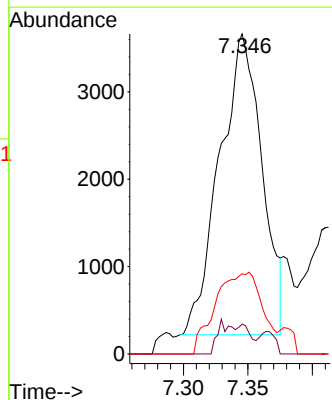
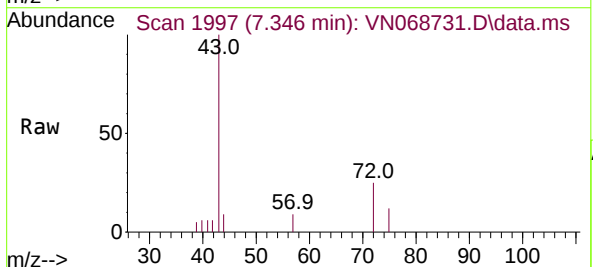
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

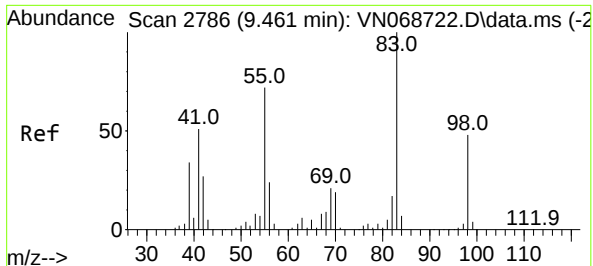
Tgt Ion:114 Resp: 435078
Ion Ratio Lower Upper
114 100
63 19.9 15.8 23.6
88 14.6 11.6 17.4



#30
2-Butanone
Concen: 2.536 ug/l
RT: 7.346 min Scan# 1997
Delta R.T. 0.011 min
Lab File: VN068731.D
Acq: 28 Sep 2021 20:54

Tgt Ion: 43 Resp: 7875
Ion Ratio Lower Upper
43 100
57 3.1 6.7 10.1#
72 30.0 23.2 34.8

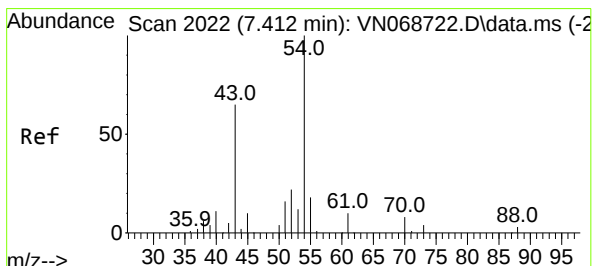
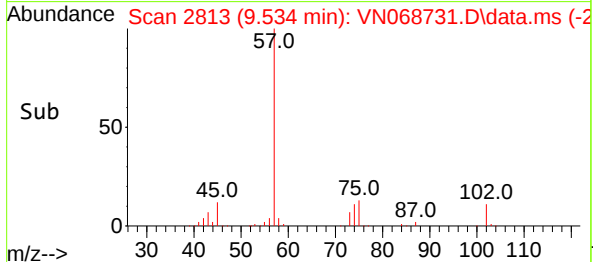
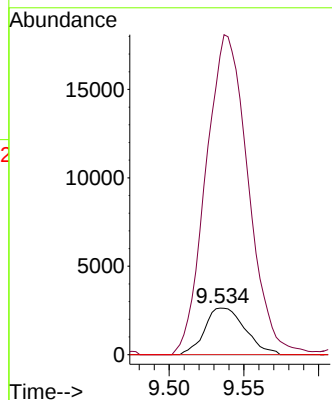
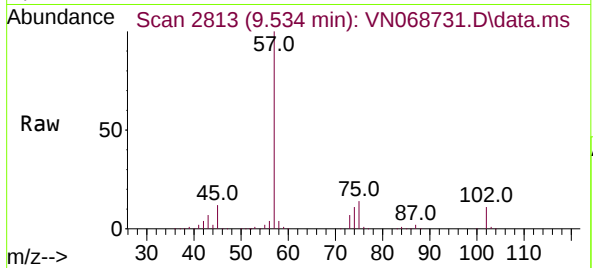




#38
Methylcyclohexane
Concen: 0.579 ug/l
RT: 9.534 min Scan# 2813
Delta R.T. 0.073 min
Lab File: VN068731.D
Acq: 28 Sep 2021 20:54

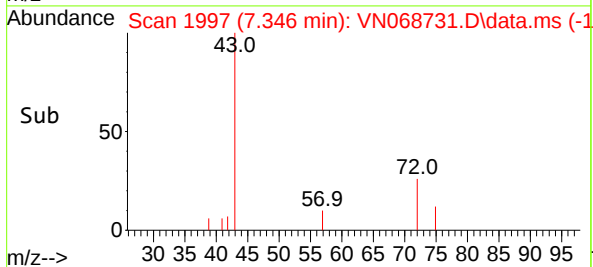
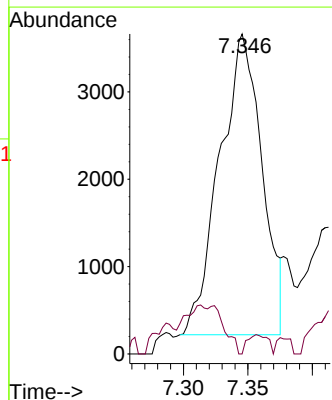
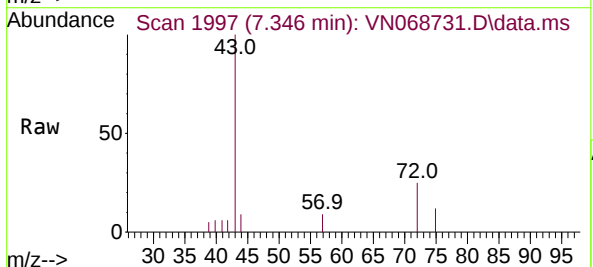
Instrument :
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EFF-WW

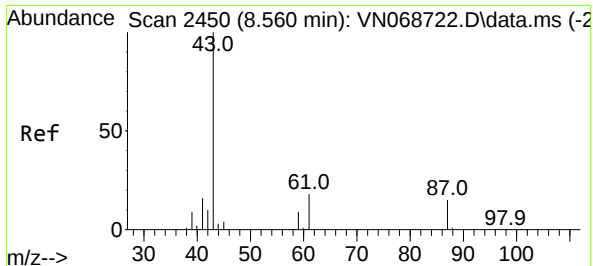
Tgt Ion: 83 Resp: 4956
Ion Ratio Lower Upper
83 100
55 718.9 35.1 105.3#
98 0.0 23.4 70.2#



#43
Ethyl Acetate
Concen: 1.269 ug/l
RT: 7.346 min Scan# 1997
Delta R.T. -0.066 min
Lab File: VN068731.D
Acq: 28 Sep 2021 20:54

Tgt Ion: 43 Resp: 7875
Ion Ratio Lower Upper
43 100
45 2.3 10.6 16.0#

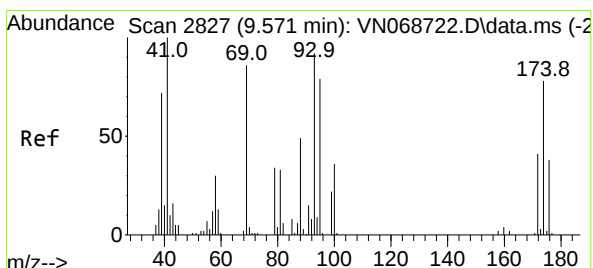
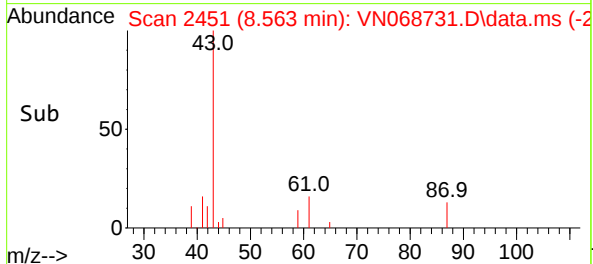
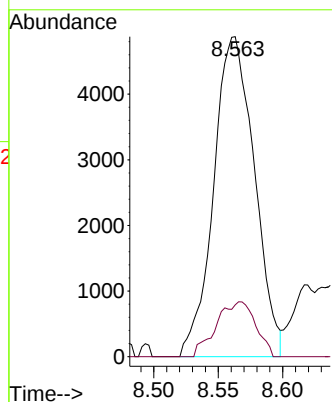
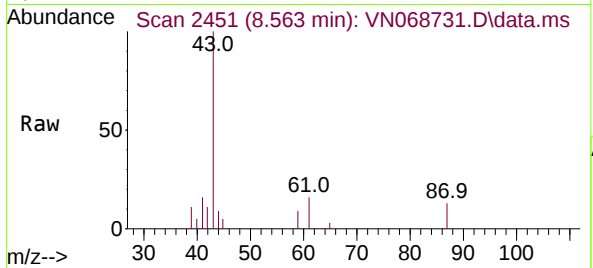




#44
Isopropyl Acetate
Concen: 0.954 ug/l
RT: 8.563 min Scan# 2451
Delta R.T. 0.003 min
Lab File: VN068731.D
Acq: 28 Sep 2021 20:54

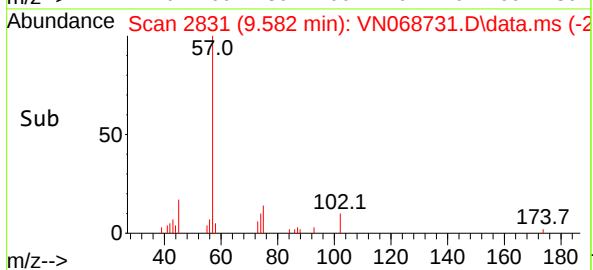
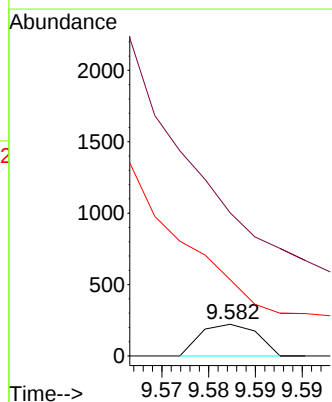
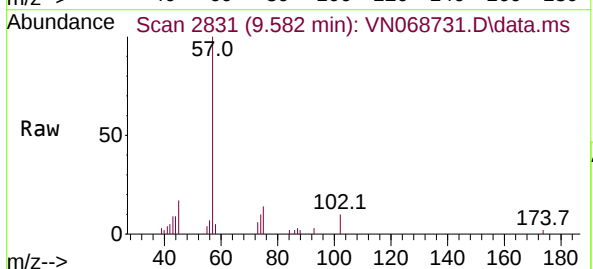
Instrument :
MSVOA_N
ClientSampled :
EFF-WW

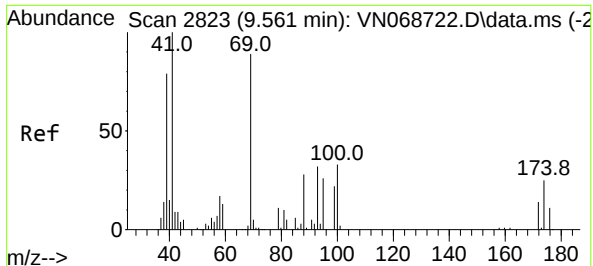
Tgt Ion: 43 Resp: 10727
Ion Ratio Lower Upper
43 100
61 7.5 20.1 30.1#



#45
1,4-Dioxane
Concen: 1.033 ug/l
RT: 9.582 min Scan# 2831
Delta R.T. 0.011 min
Lab File: VN068731.D
Acq: 28 Sep 2021 20:54

Tgt Ion: 88 Resp: 94
Ion Ratio Lower Upper
88 100
43 47.9 25.0 37.6#
58 0.0 49.4 74.2#

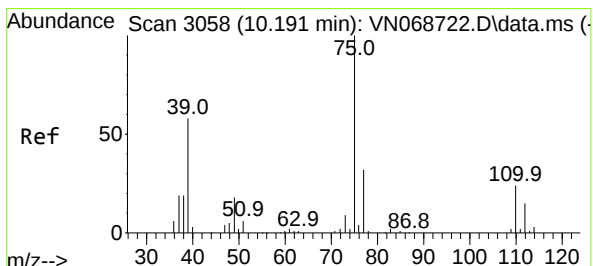
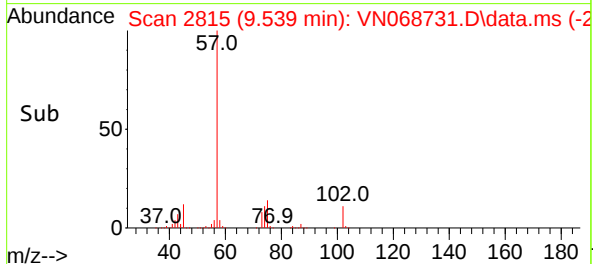
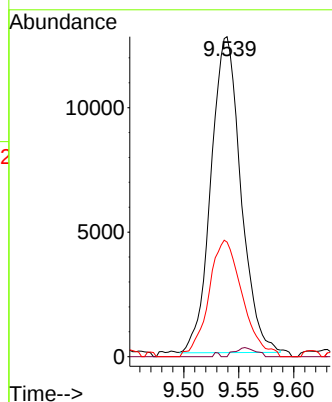
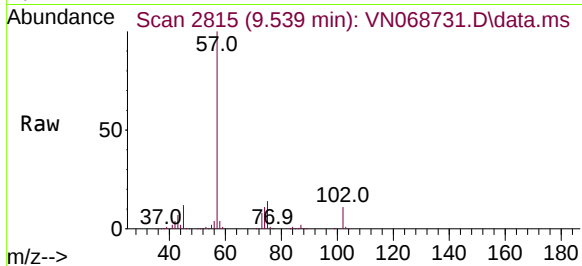




#46
Methyl methacrylate
Concen: 4.826 ug/l
RT: 9.539 min Scan# 2815
Delta R.T. -0.022 min
Lab File: VN068731.D
Acq: 28 Sep 2021 20:54

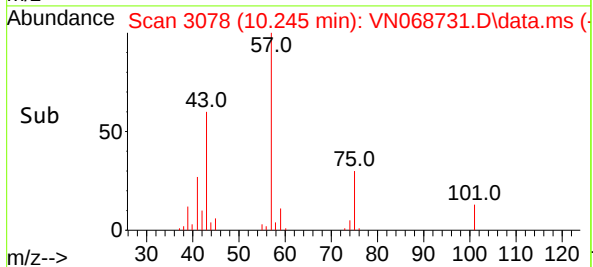
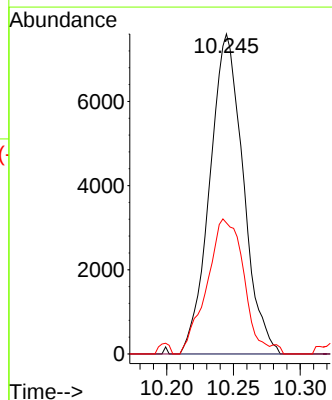
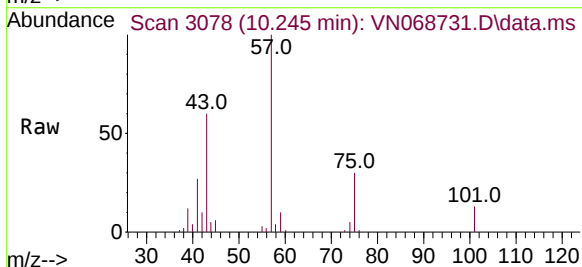
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

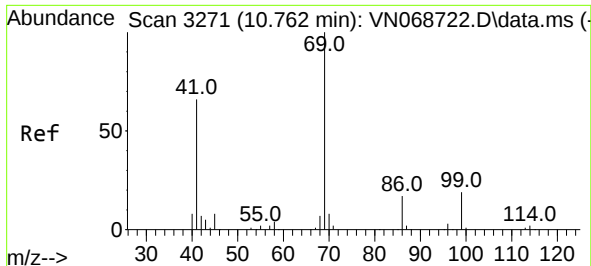
Tgt Ion: 41 Resp: 23999
Ion Ratio Lower Upper
41 100
69 0.0 44.4 133.2#
39 36.3 39.9 119.6#



#49
cis-1,3-Dichloropropene
Concen: 1.513 ug/l
RT: 10.245 min Scan# 3078
Delta R.T. 0.054 min
Lab File: VN068731.D
Acq: 28 Sep 2021 20:54

Tgt Ion: 75 Resp: 13214
Ion Ratio Lower Upper
75 100
77 0.0 25.3 37.9#
39 40.9 46.2 69.4#

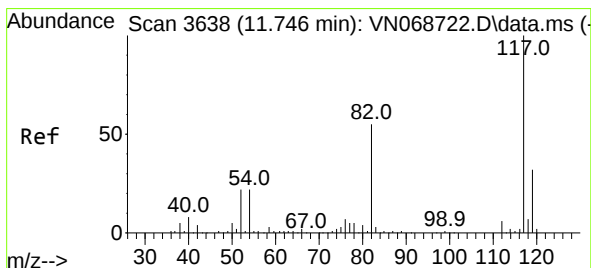
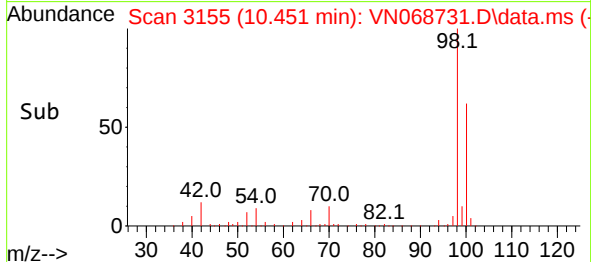
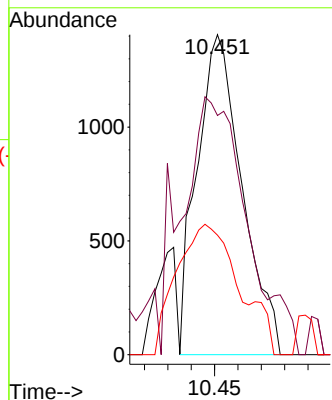
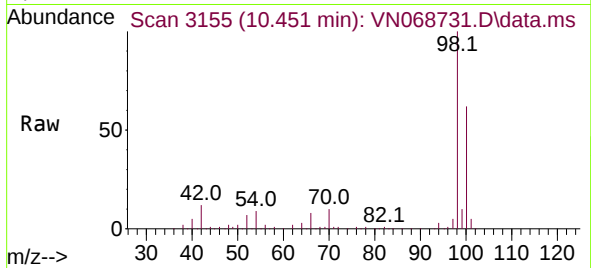




#51
Ethyl methacrylate
Concen: 0.225 ug/l
RT: 10.451 min Scan# 3155
Delta R.T. -0.311 min
Lab File: VN068731.D
Acq: 28 Sep 2021 20:54

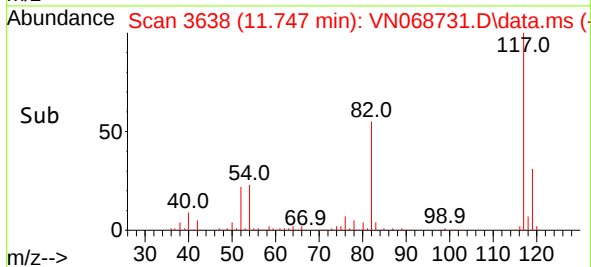
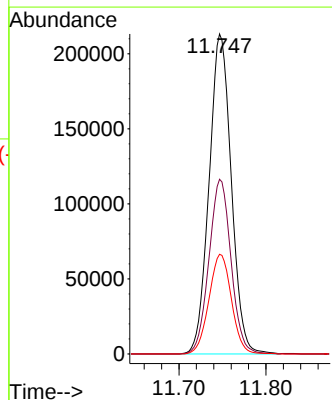
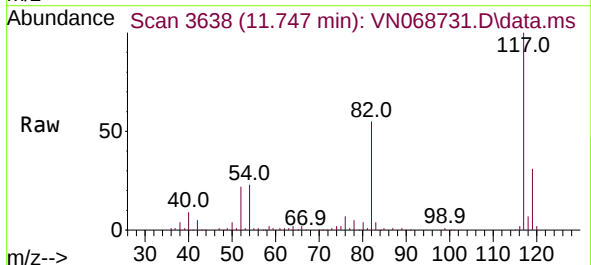
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

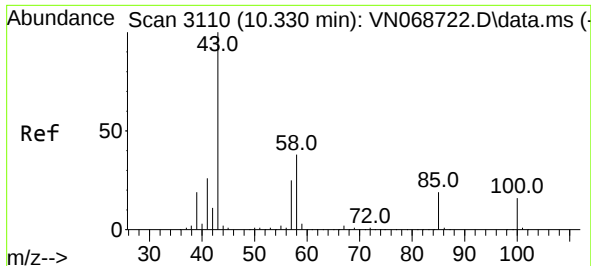
Tgt Ion:	69	Resp:	1885
Ion	Ratio	Lower	Upper
69	100		
41	56.0	33.0	98.9
39	37.3	25.4	76.4



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.001 min
Lab File: VN068731.D
Acq: 28 Sep 2021 20:54

Tgt Ion:	117	Resp:	378157
Ion	Ratio	Lower	Upper
117	100		
82	54.3	43.6	65.4
119	31.6	25.8	38.6

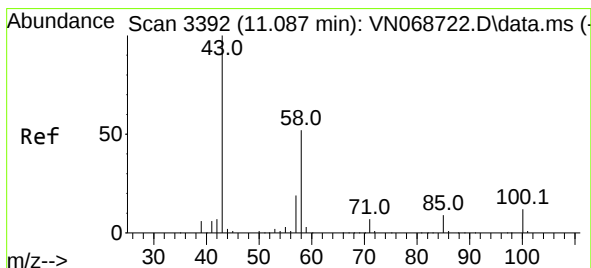
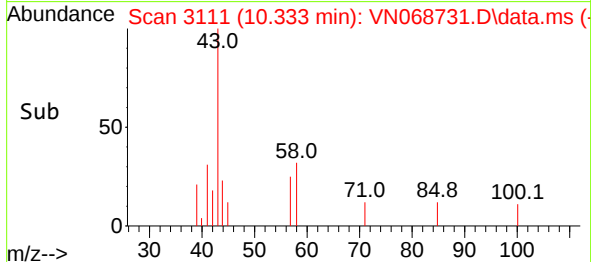
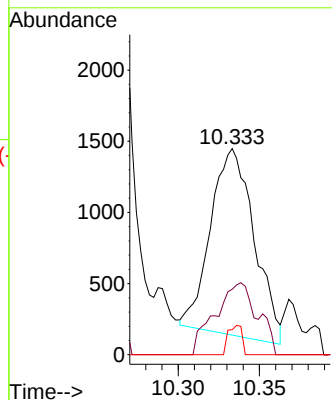
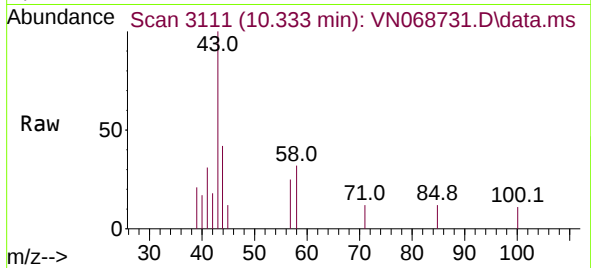




#58
4-Methyl-2-Pentanone
Concen: 0.382 ug/l
RT: 10.333 min Scan# 3111
Delta R.T. 0.003 min
Lab File: VN068731.D
Acq: 28 Sep 2021 20:54

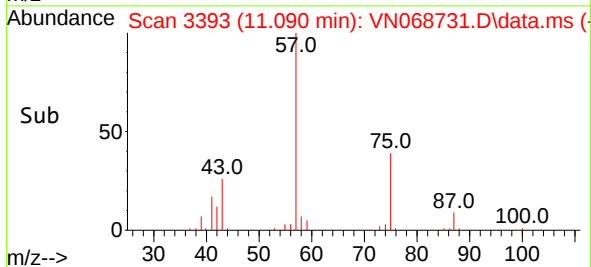
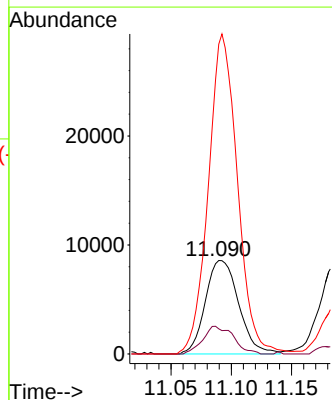
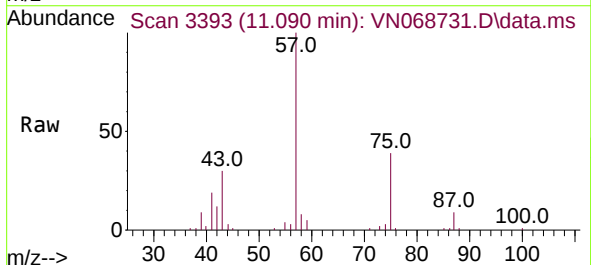
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

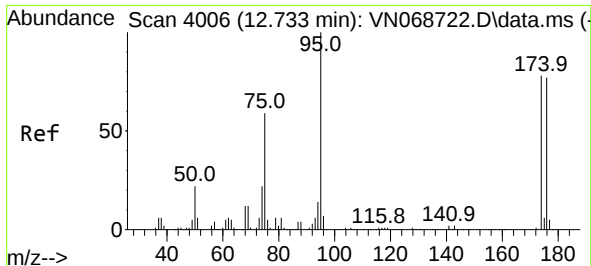
Tgt Ion: 43 Resp: 2441
Ion Ratio Lower Upper
43 100
58 23.9 30.0 45.0#
85 5.0 15.0 22.6#



#59
2-Hexanone
Concen: 3.543 ug/l
RT: 11.090 min Scan# 3393
Delta R.T. 0.003 min
Lab File: VN068731.D
Acq: 28 Sep 2021 20:54

Tgt Ion: 43 Resp: 16472
Ion Ratio Lower Upper
43 100
58 16.8 42.2 63.2#
57 299.3 15.0 22.4#

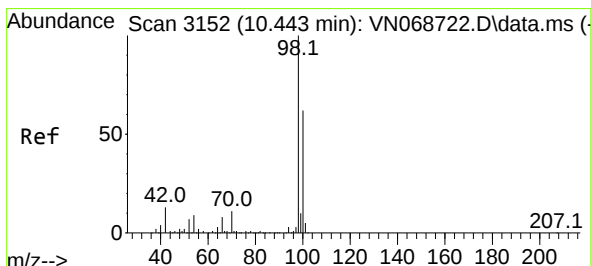
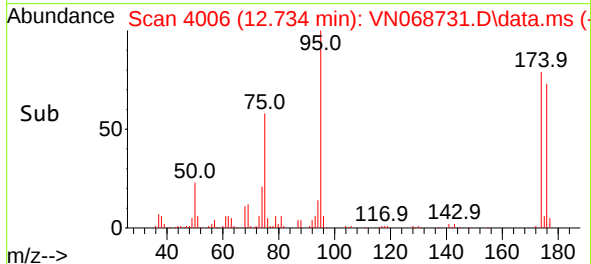
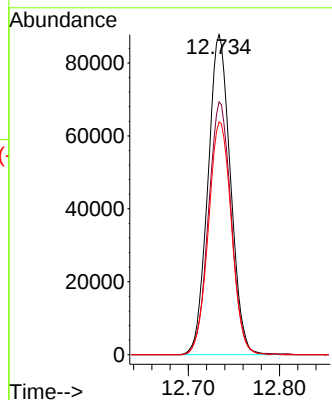
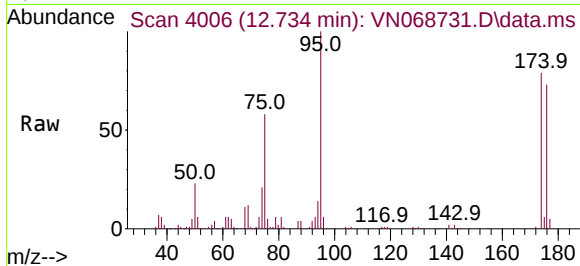




#60
4-Bromofluorobenzene
Concen: 25.567 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.001 min
Lab File: VN068731.D
Acq: 28 Sep 2021 20:54

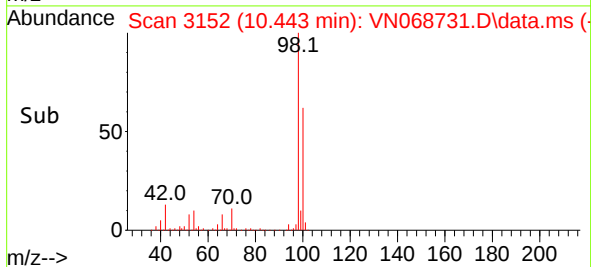
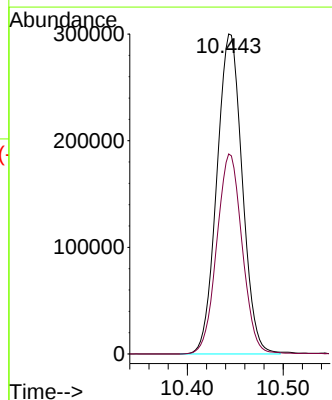
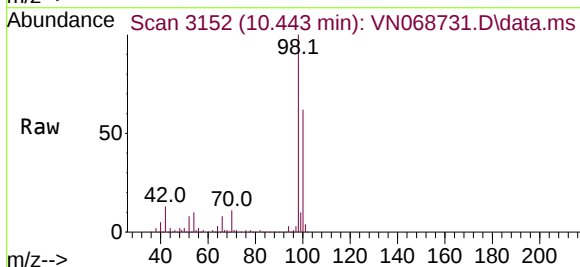
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

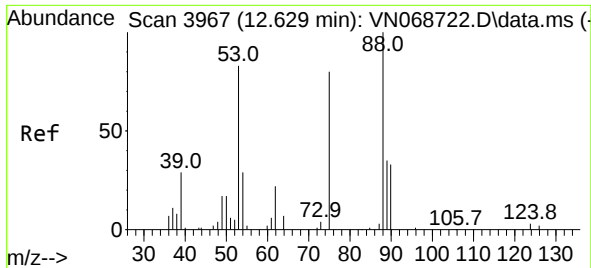
Tgt Ion: 95 Resp: 151042
Ion Ratio Lower Upper
95 100
174 79.1 62.9 94.3
176 74.2 61.0 91.4



#63
Toluene-d8
Concen: 32.304 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN068731.D
Acq: 28 Sep 2021 20:54

Tgt Ion: 98 Resp: 552167
Ion Ratio Lower Upper
98 100
100 62.5 50.6 76.0

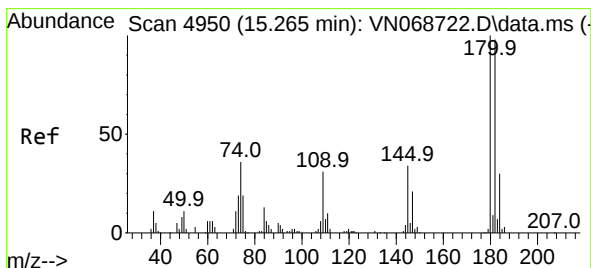
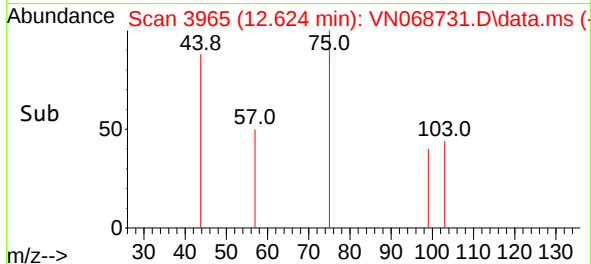
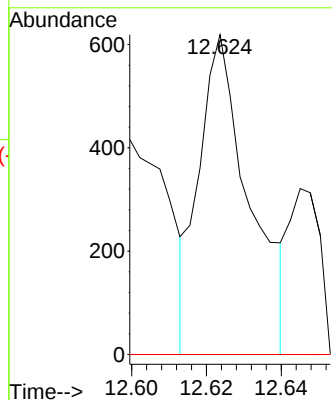
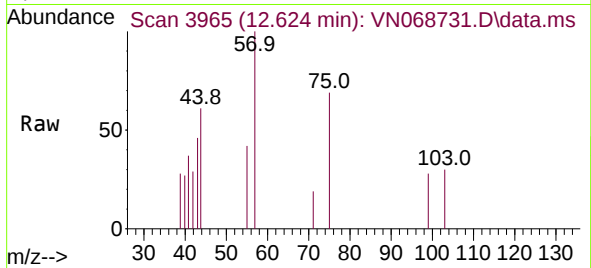




#77
t-1,4-Dichloro-2-butene
Concen: 0.252 ug/l
RT: 12.624 min Scan# 3965
Delta R.T. -0.005 min
Lab File: VN068731.D
Acq: 28 Sep 2021 20:54

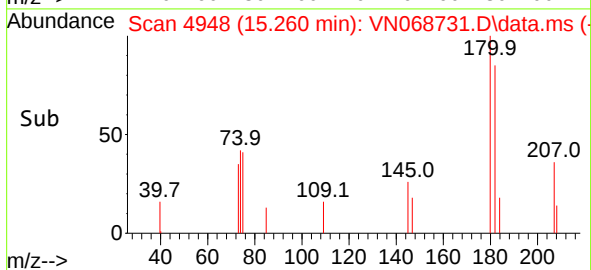
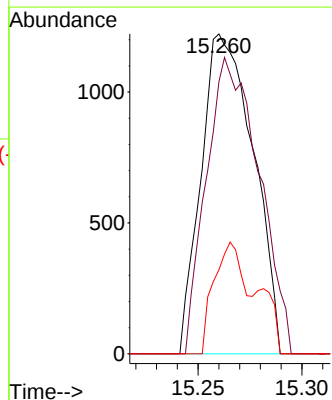
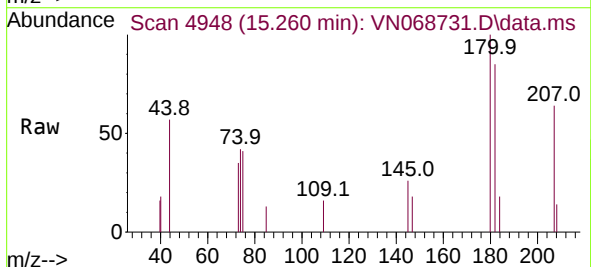
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

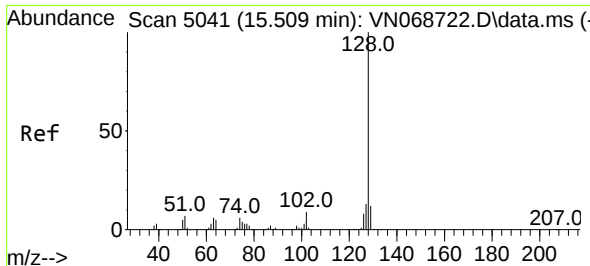
Tgt Ion: 75 Resp: 576
Ion Ratio Lower Upper
75 100
53 0.0 51.8 155.5#
89 0.0 22.9 68.7#



#89
1,2,4-Trichlorobenzene
Concen: 0.435 ug/l
RT: 15.260 min Scan# 4948
Delta R.T. -0.005 min
Lab File: VN068731.D
Acq: 28 Sep 2021 20:54

Tgt Ion: 180 Resp: 2132
Ion Ratio Lower Upper
180 100
182 93.5 77.7 116.5
145 20.9 26.6 39.8#

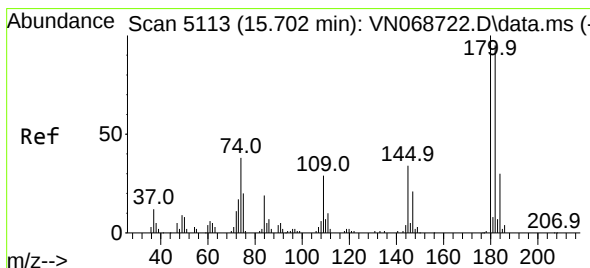
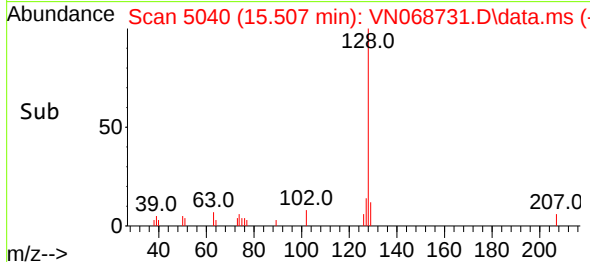
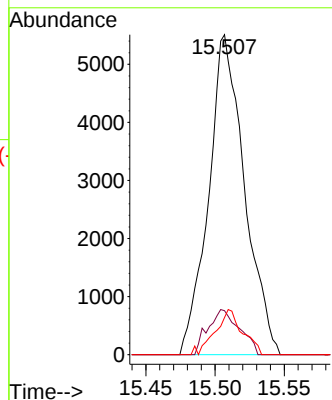
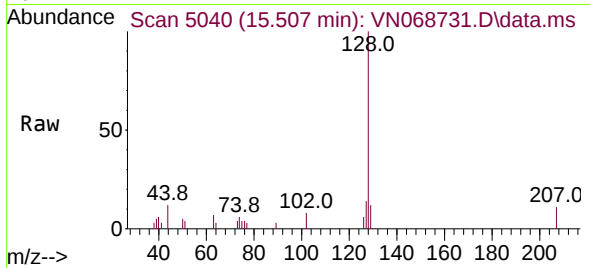




#91
Naphthalene
Concen: 0.719 ug/l
RT: 15.507 min Scan# 5040
Delta R.T. -0.002 min
Lab File: VN068731.D
Acq: 28 Sep 2021 20:54

Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

Tgt Ion:	128	Resp:	9946
Ion Ratio	Lower	Upper	
128	100		
127	10.7	10.7	16.1
129	10.5	9.0	13.6



#92
1,2,3-Trichlorobenzene
Concen: 0.307 ug/l
RT: 15.711 min Scan# 5116
Delta R.T. 0.009 min
Lab File: VN068731.D
Acq: 28 Sep 2021 20:54

Tgt Ion:	180	Resp:	1440
Ion Ratio	Lower	Upper	
180	100		
182	125.4	0.0	190.0
145	37.2	0.0	67.8

