

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021723\
 Data File : VN076740.D
 Acq On : 17 Feb 2023 17:40
 Operator : JC\MD
 Sample : 01609-01RE 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WW

Quant Time: Feb 18 02:13:26 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N021523W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Feb 16 01:08:46 2023
 Response via : Initial Calibration

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

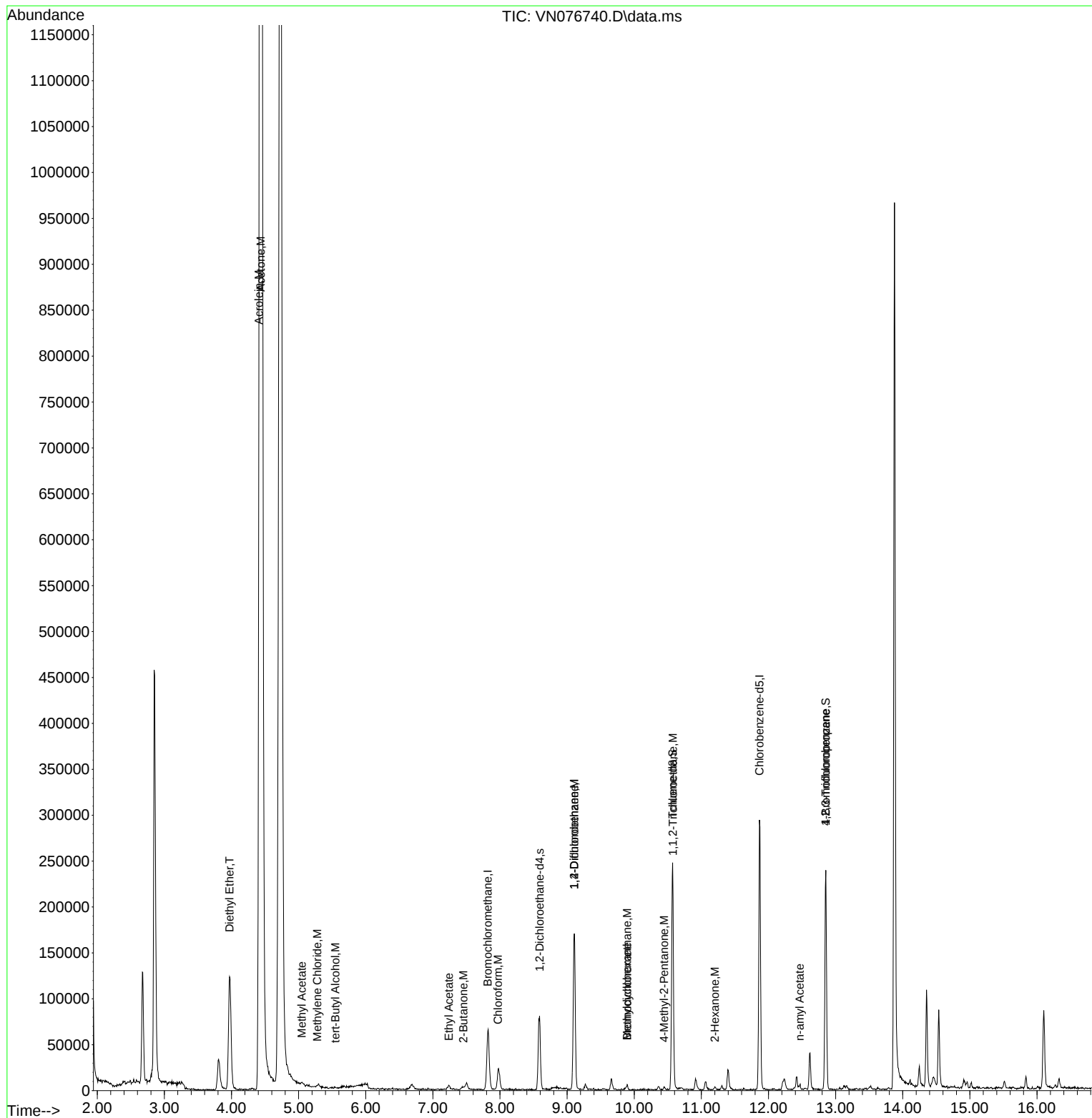
Internal Standards						
1) Bromochloromethane	7.819	128	21913	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	140082	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	160168	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.589	65	62742	31.305	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	104.367%
60) 4-Bromofluorobenzene	12.854	95	73601	25.980	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	86.600%
63) Toluene-d8	10.572	98	157728	28.115	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	93.700%
Target Compounds						
8) Diethyl Ether	3.972	74	72640	48.323	ug/l	95
12) Methyl Acetate	5.048	43	2445	0.551	ug/l #	52
13) Acrolein	4.407	56	114	0.217	ug/l	97
15) Acetone	4.437	58	1575337	3576.118	ug/l	88
18) Methylene Chloride	5.278	84	667	0.244	ug/l #	47
23) tert-Butyl Alcohol	5.548	59	205	0.521	ug/l #	100
25) Chloroform	7.972	83	15887	3.384	ug/l	93
30) 2-Butanone	7.454	43	387	0.208	ug/l #	1
36) 1,2-Dichloroethane	9.107	62	5411	1.585	ug/l #	75
38) Methylcyclohexane	9.895	83	2575	0.640	ug/l #	18
41) Bromodichloromethane	9.895	83	2575	0.759	ug/l #	67
43) Ethyl Acetate	7.237	43	2500	0.704	ug/l	95
47) n-amyl Acetate	12.466	43	1920	0.372	ug/l	98
50) 1,1,2-Trichloroethane	10.578	97	6099	2.481	ug/l #	1
58) 4-Methyl-2-Pentanone	10.442	43	1040	0.273	ug/l #	46
59) 2-Hexanone	11.201	43	1067	0.377	ug/l #	65
72) 1,2,3-Trichloropropane	12.854	75	42555	12.622	ug/l	1

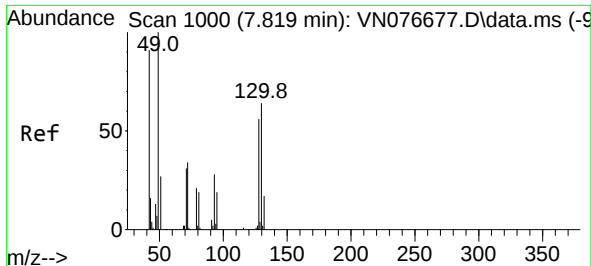
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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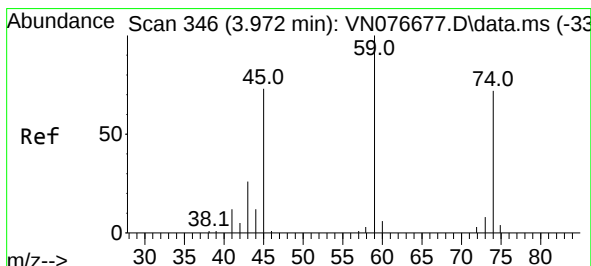
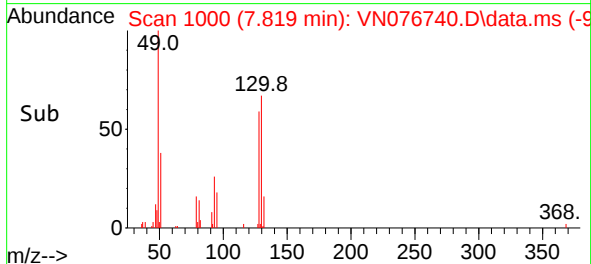
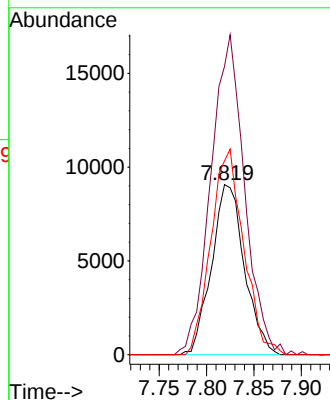
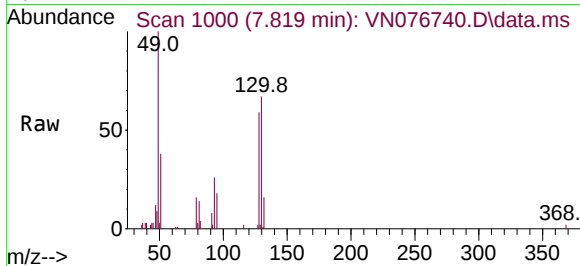




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.819 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN076740.D
Acq: 17 Feb 2023 17:40

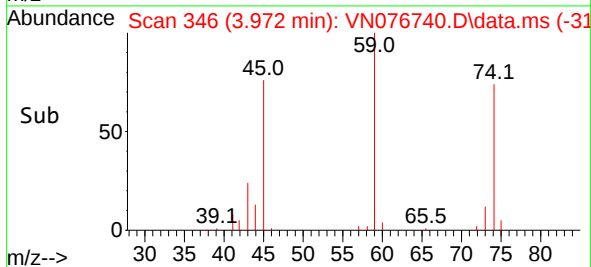
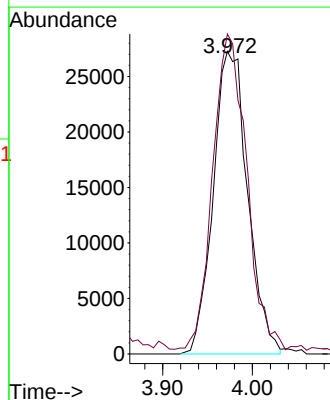
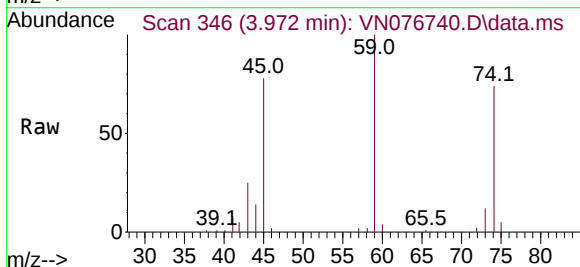
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

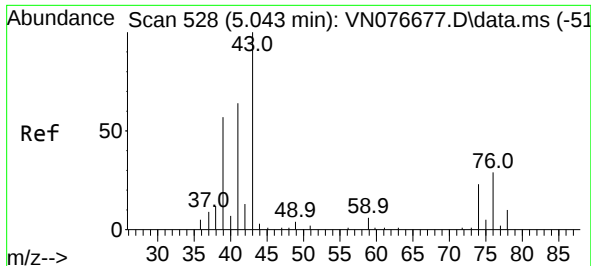
Tgt Ion:128 Resp: 21913
Ion Ratio Lower Upper
128 100
49 192.3 0.0 461.8
130 119.3 0.0 295.3



#8
Diethyl Ether
Concen: 48.323 ug/l
RT: 3.972 min Scan# 346
Delta R.T. 0.000 min
Lab File: VN076740.D
Acq: 17 Feb 2023 17:40

Tgt Ion: 74 Resp: 72640
Ion Ratio Lower Upper
74 100
45 102.2 21.4 193.0

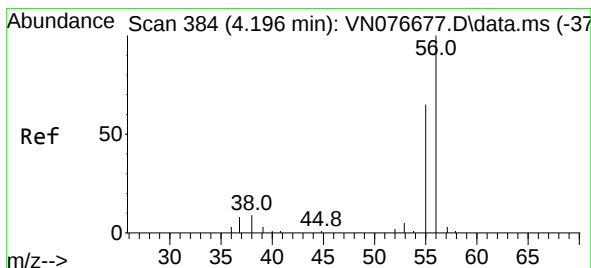
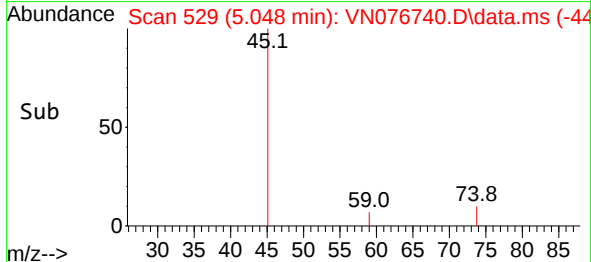
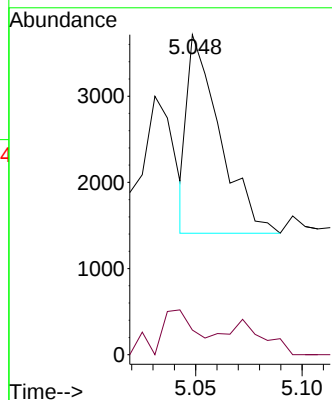
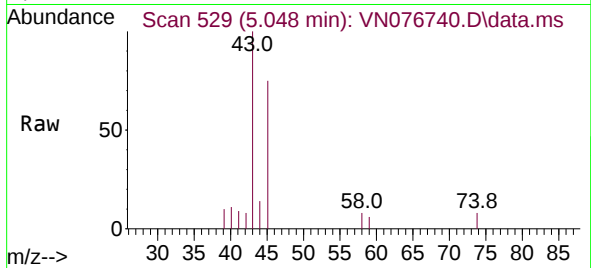




#12
Methyl Acetate
Concen: 0.551 ug/l
RT: 5.048 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN076740.D
Acq: 17 Feb 2023 17:40

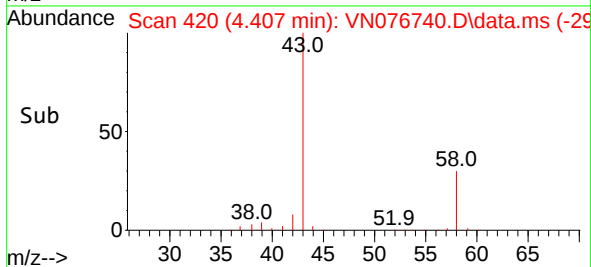
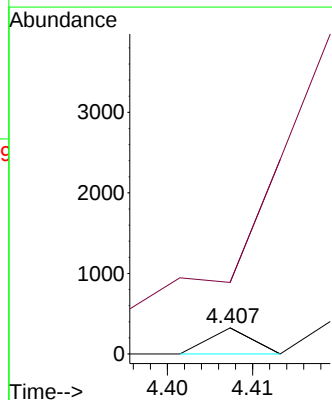
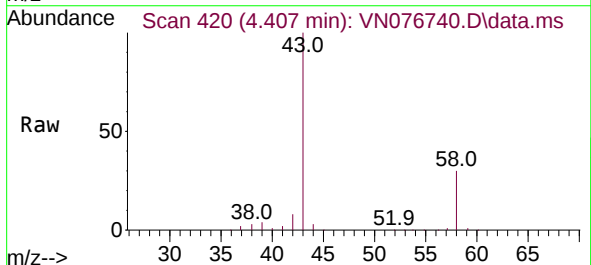
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

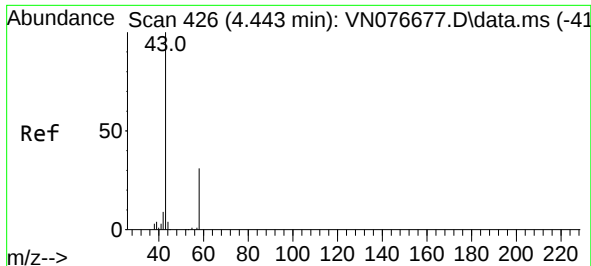
Tgt Ion: 43 Resp: 2445
Ion Ratio Lower Upper
43 100
74 0.0 19.0 28.4#



#13
Acrolein
Concen: 0.217 ug/l
RT: 4.407 min Scan# 420
Delta R.T. 0.212 min
Lab File: VN076740.D
Acq: 17 Feb 2023 17:40

Tgt Ion: 56 Resp: 114
Ion Ratio Lower Upper
56 100
55 71.1 55.0 82.4

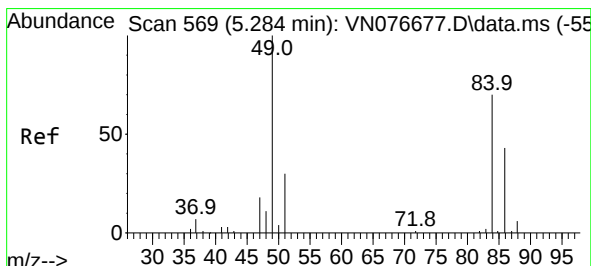
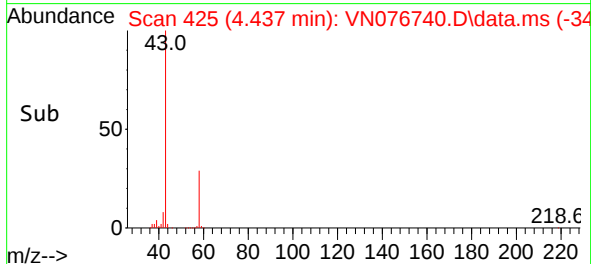
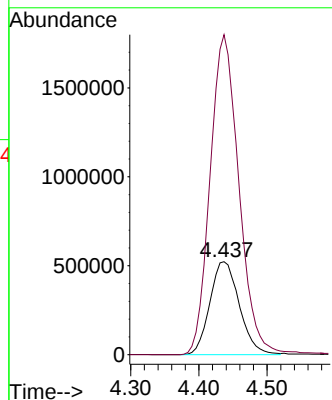
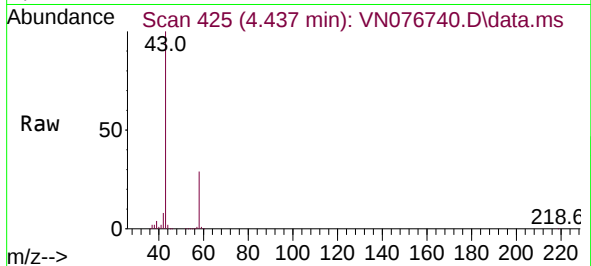




#15
Acetone
Concen: 3576.118 ug/l
RT: 4.437 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN076740.D
Acq: 17 Feb 2023 17:40

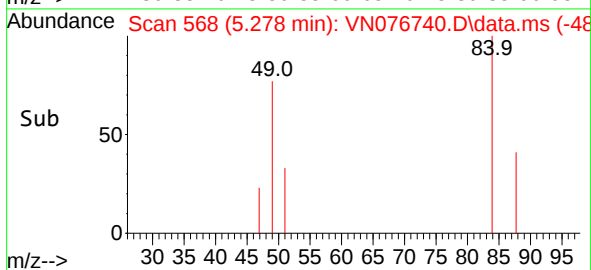
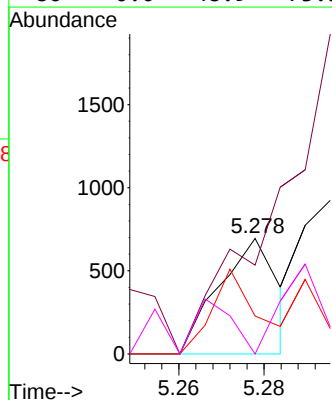
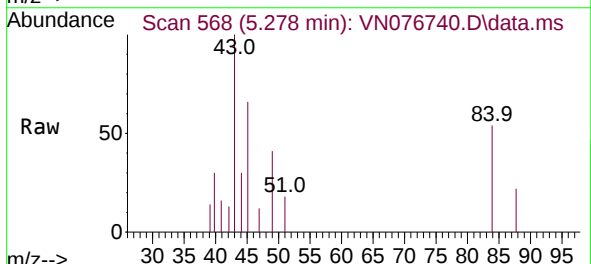
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

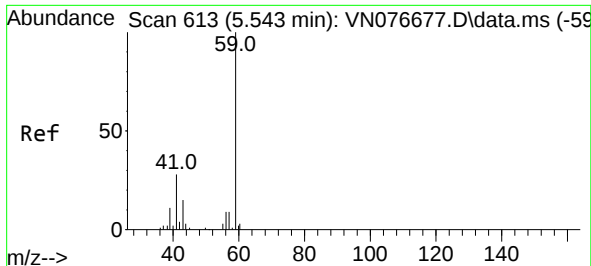
Tgt Ion: 58 Resp: 1575337
Ion Ratio Lower Upper
58 100
43 343.9 255.4 383.0



#18
Methylene Chloride
Concen: 0.244 ug/l
RT: 5.278 min Scan# 568
Delta R.T. -0.006 min
Lab File: VN076740.D
Acq: 17 Feb 2023 17:40

Tgt Ion: 84 Resp: 667
Ion Ratio Lower Upper
84 100
49 76.8 113.8 170.6#
51 32.8 34.2 51.4#
86 0.0 48.9 73.3#

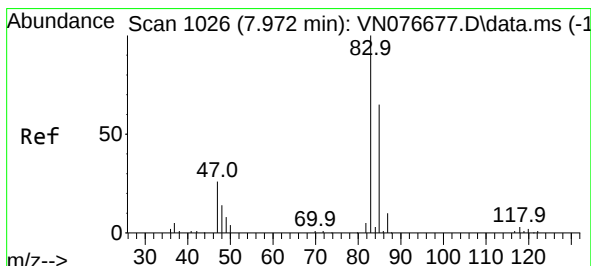
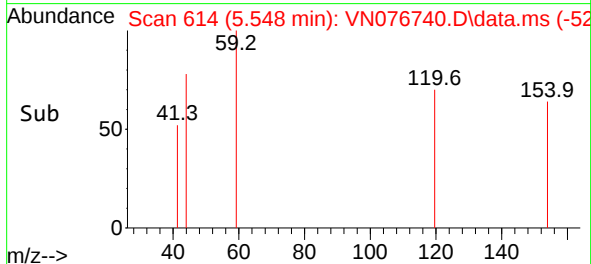
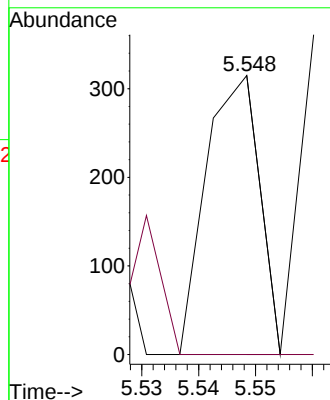
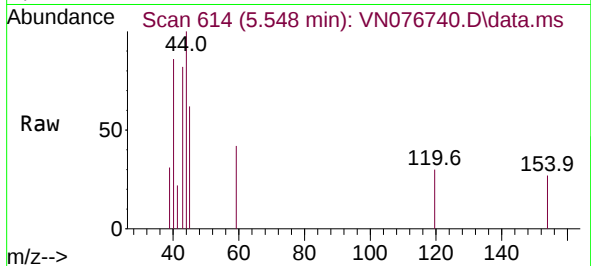




#23
tert-Butyl Alcohol
Concen: 0.521 ug/l
RT: 5.548 min Scan# 613
Delta R.T. 0.006 min
Lab File: VN076740.D
Acq: 17 Feb 2023 17:40

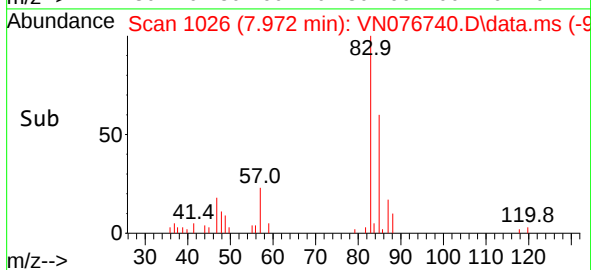
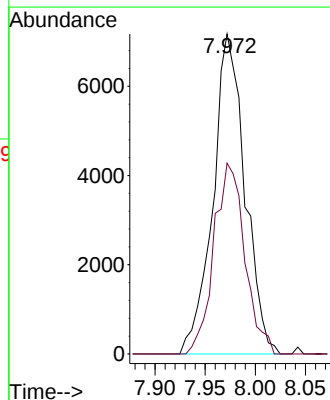
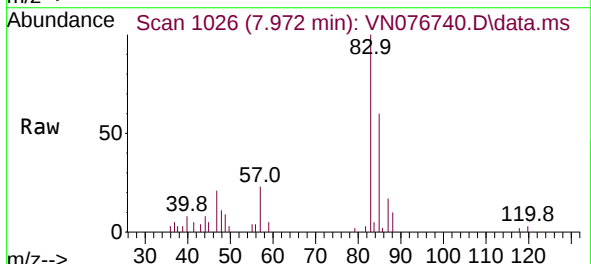
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

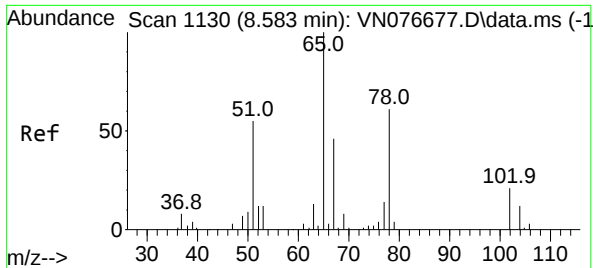
Tgt Ion: 59 Resp: 205
Ion Ratio Lower Upper
59 100
52 0.0 0.2 0.2#



#25
Chloroform
Concen: 3.384 ug/l
RT: 7.972 min Scan# 1026
Delta R.T. 0.000 min
Lab File: VN076740.D
Acq: 17 Feb 2023 17:40

Tgt Ion: 83 Resp: 15887
Ion Ratio Lower Upper
83 100
85 59.1 51.8 77.6

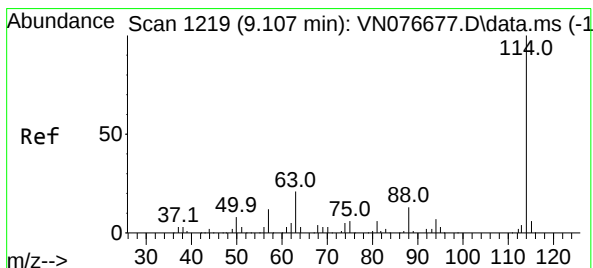
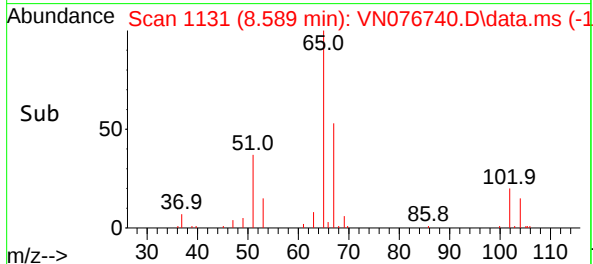
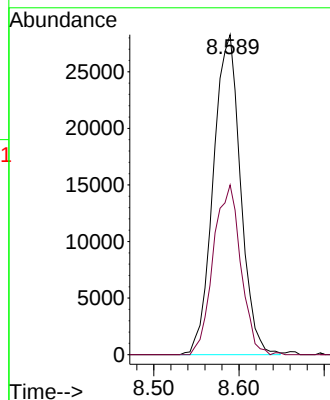
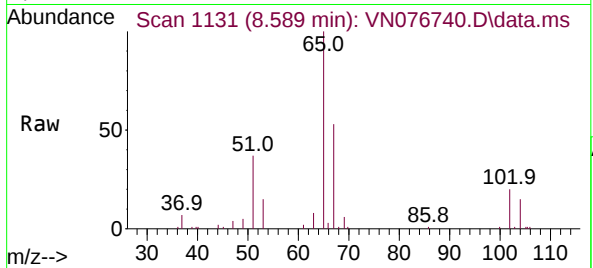




#27
 1,2-Dichloroethane-d4
 Concen: 31.305 ug/l
 RT: 8.589 min Scan# 1131
 Delta R.T. 0.006 min
 Lab File: VN076740.D
 Acq: 17 Feb 2023 17:40

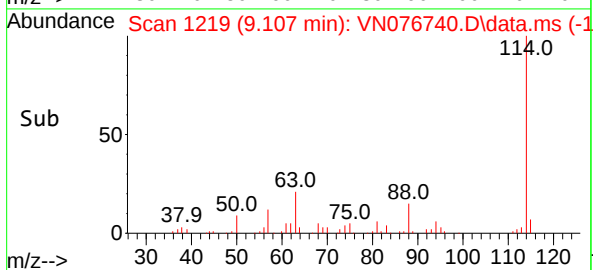
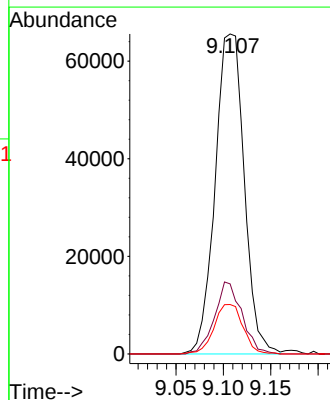
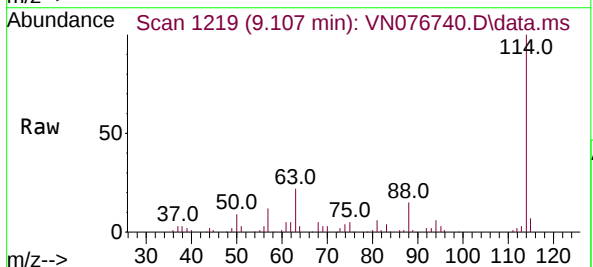
Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WW

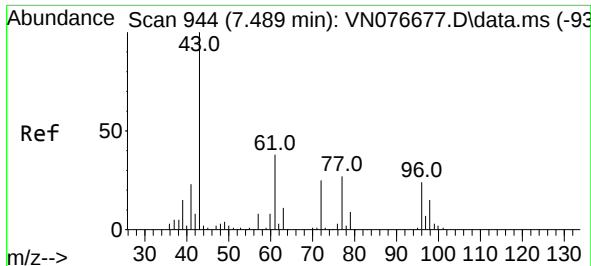
Tgt Ion: 65 Resp: 62742
 Ion Ratio Lower Upper
 65 100
 67 53.4 40.9 61.3



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.107 min Scan# 1219
 Delta R.T. 0.000 min
 Lab File: VN076740.D
 Acq: 17 Feb 2023 17:40

Tgt Ion: 114 Resp: 140082
 Ion Ratio Lower Upper
 114 100
 63 21.2 17.0 25.4
 88 15.4 11.6 17.4





#30

2-Butanone

Concen: 0.208 ug/l

RT: 7.454 min Scan# 91

Delta R.T. -0.035 min

Lab File: VN076740.D

Acq: 17 Feb 2023 17:40

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW

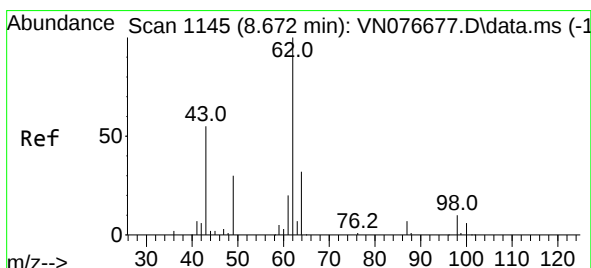
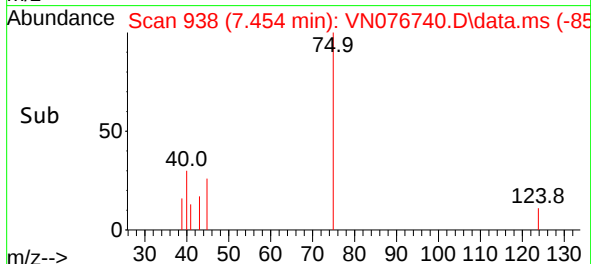
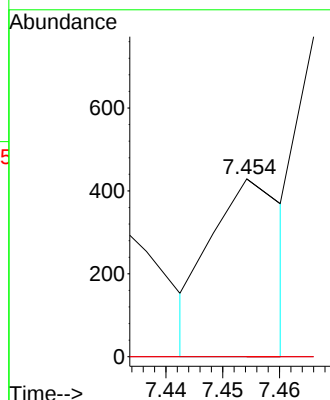
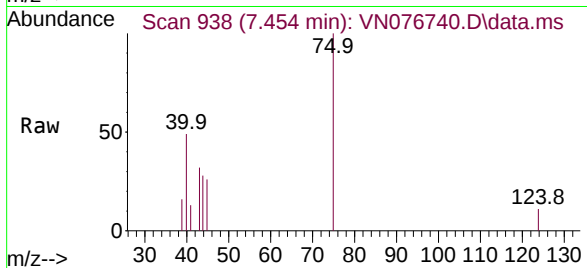
Tgt Ion: 43 Resp: 387

Ion Ratio Lower Upper

43 100

57 92.8 6.1 9.1#

72 245.7 20.2 30.4#



#36

1,2-Dichloroethane

Concen: 1.585 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. 0.435 min

Lab File: VN076740.D

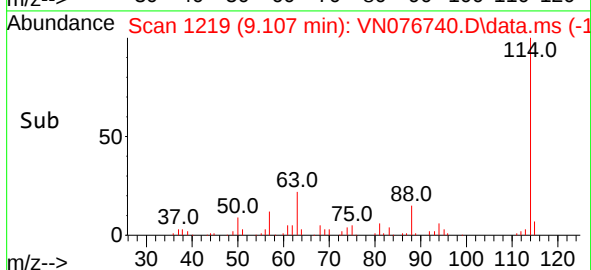
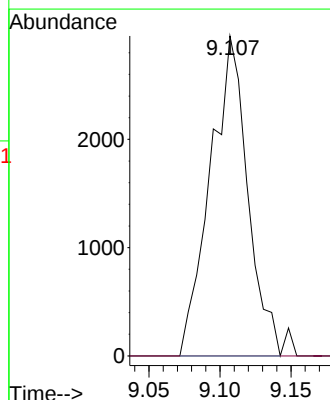
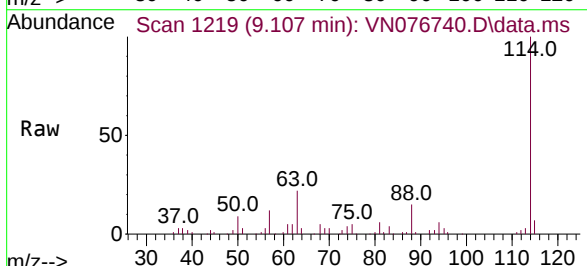
Acq: 17 Feb 2023 17:40

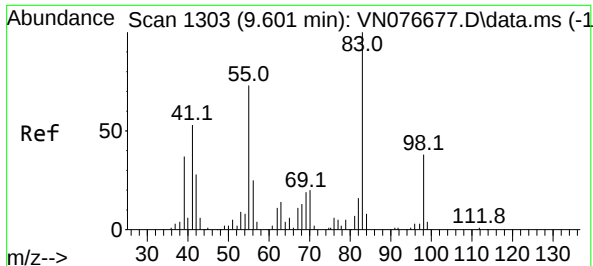
Tgt Ion: 62 Resp: 5411

Ion Ratio Lower Upper

62 100

98 0.0 7.4 11.0#





#38

Methylcyclohexane

Concen: 0.640 ug/l

RT: 9.895 min Scan# 1353

Delta R.T. 0.294 min

Lab File: VN076740.D

Acq: 17 Feb 2023 17:40

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW

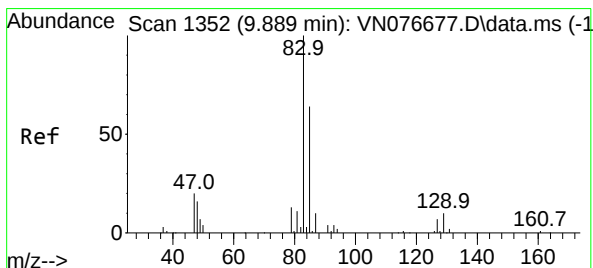
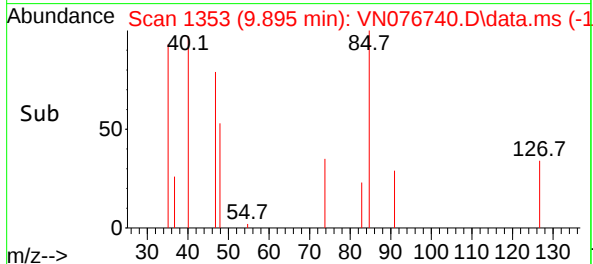
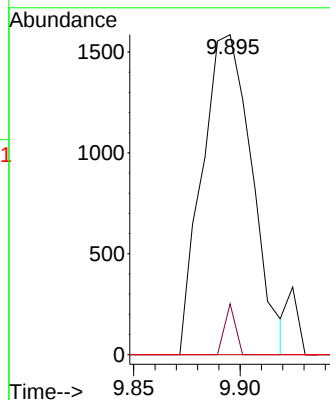
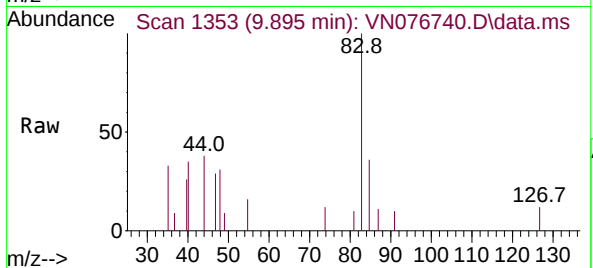
Tgt Ion: 83 Resp: 2575

Ion Ratio Lower Upper

83 100

55 0.0 37.6 112.9#

98 0.0 24.1 72.4#



#41

Bromodichloromethane

Concen: 0.759 ug/l

RT: 9.895 min Scan# 1353

Delta R.T. 0.006 min

Lab File: VN076740.D

Acq: 17 Feb 2023 17:40

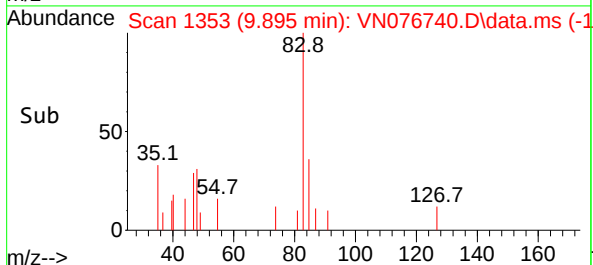
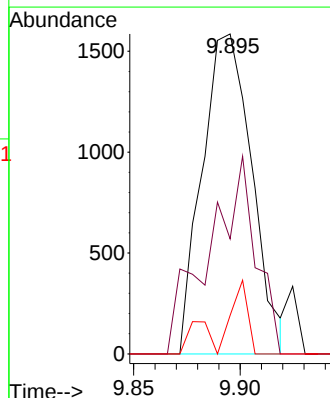
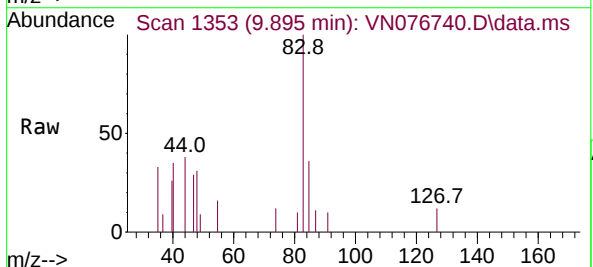
Tgt Ion: 83 Resp: 2575

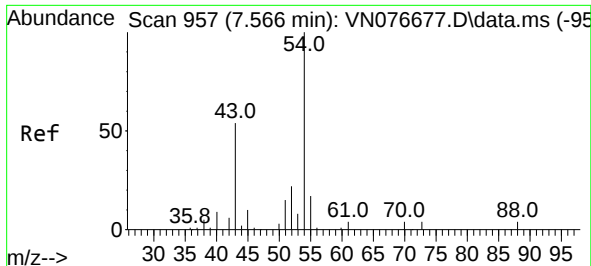
Ion Ratio Lower Upper

83 100

85 35.9 51.0 76.4#

127 12.0 6.2 9.2#

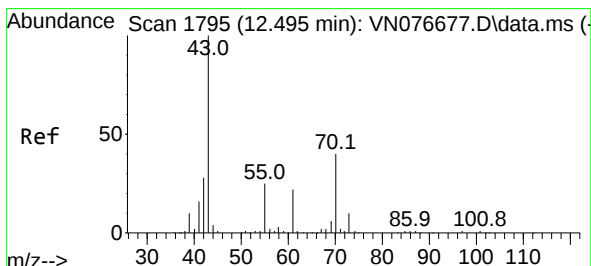
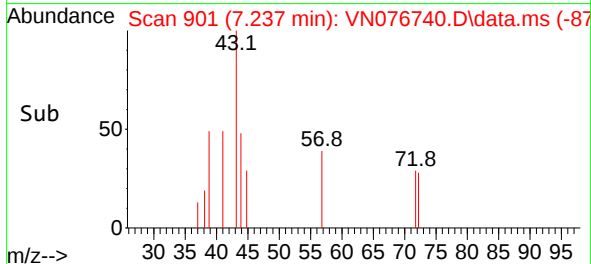
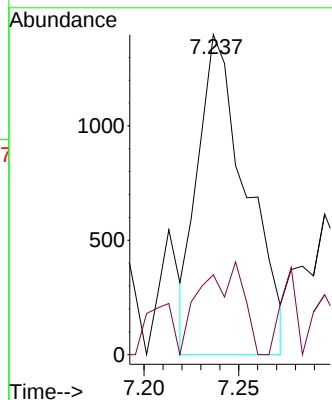
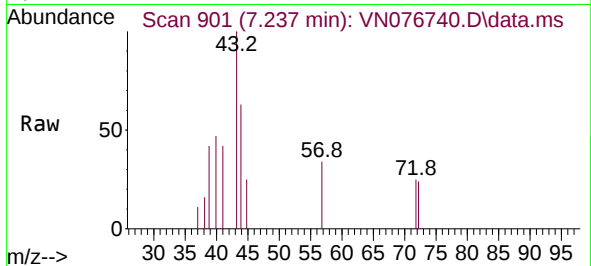




#43
Ethyl Acetate
Concen: 0.704 ug/l
RT: 7.237 min Scan# 901
Delta R.T. -0.329 min
Lab File: VN076740.D
Acq: 17 Feb 2023 17:40

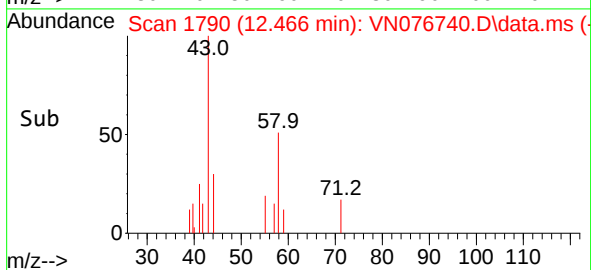
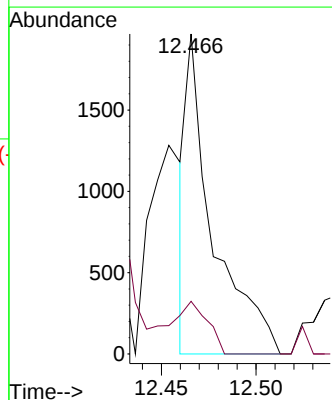
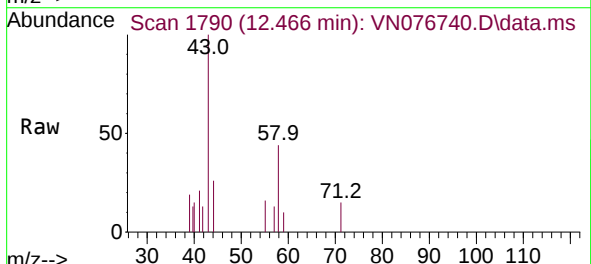
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

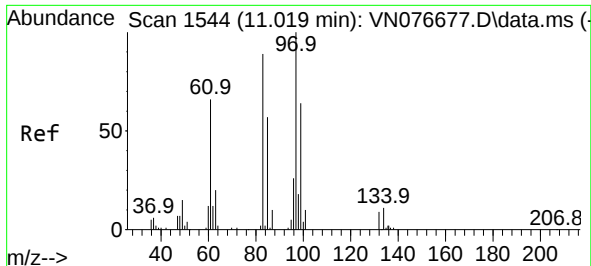
Tgt Ion: 43 Resp: 2500
Ion Ratio Lower Upper
43 100
45 16.0 11.2 16.8



#47
n-amyl Acetate
Concen: 0.372 ug/l
RT: 12.466 min Scan# 1790
Delta R.T. -0.029 min
Lab File: VN076740.D
Acq: 17 Feb 2023 17:40

Tgt Ion: 43 Resp: 1920
Ion Ratio Lower Upper
43 100
55 24.1 18.3 27.5

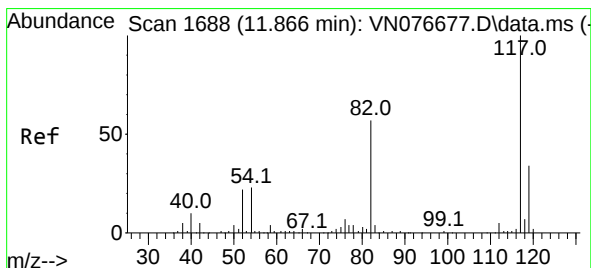
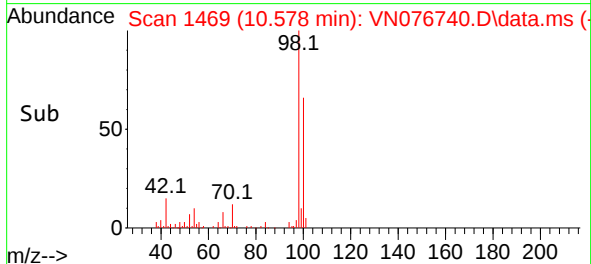
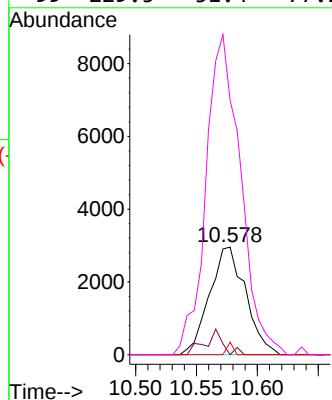
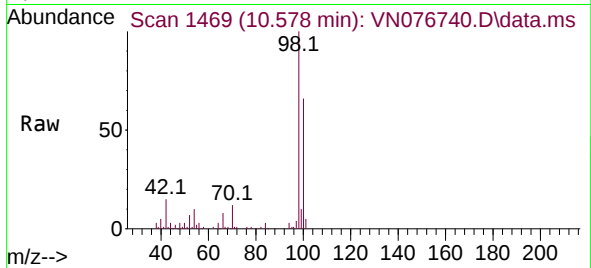




#50
1,1,2-Trichloroethane
Concen: 2.481 ug/l
RT: 10.578 min Scan# 1469
Delta R.T. -0.441 min
Lab File: VN076740.D
Acq: 17 Feb 2023 17:40

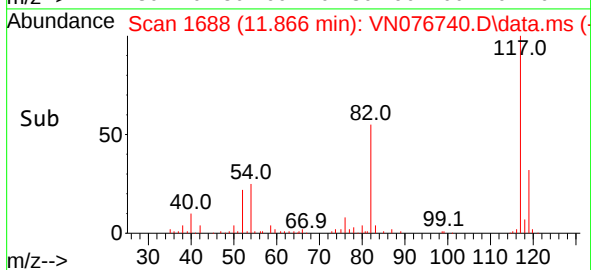
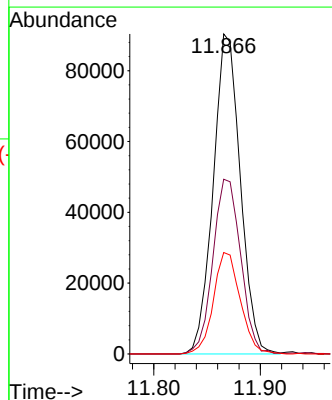
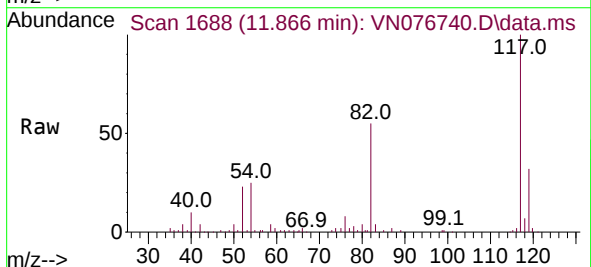
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

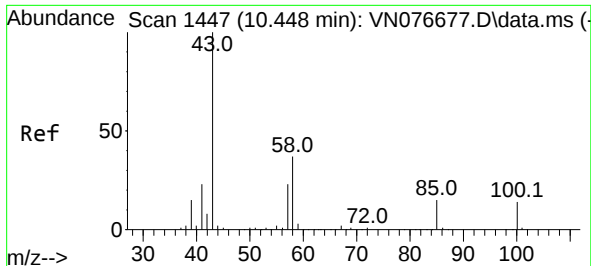
Tgt Ion: 97	Resp: 6099
Ion Ratio	Lower Upper
97 100	
83 0.0	71.0 106.4#
85 11.6	45.5 68.3#
99 229.5	51.4 77.2#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.866 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VN076740.D
Acq: 17 Feb 2023 17:40

Tgt Ion: 117	Resp: 160168
Ion Ratio	Lower Upper
117 100	
82 55.7	45.4 68.0
119 31.3	26.8 40.2





#58

4-Methyl-2-Pentanone

Concen: 0.273 ug/l

RT: 10.442 min Scan# 1446

Delta R.T. -0.006 min

Lab File: VN076740.D

Acq: 17 Feb 2023 17:40

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW

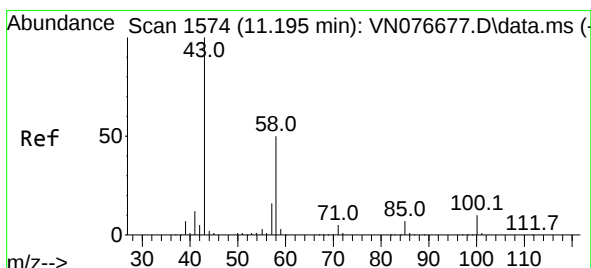
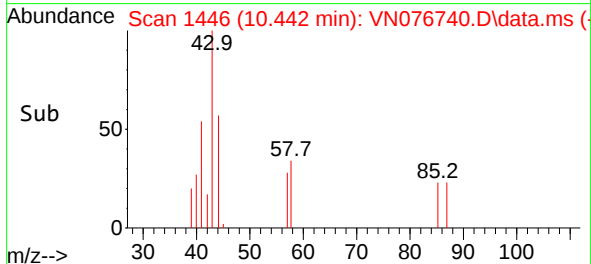
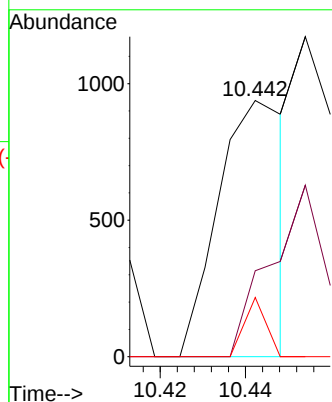
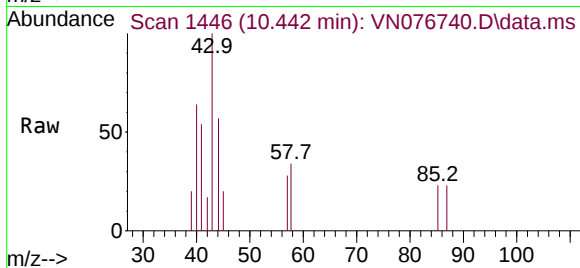
Tgt Ion: 43 Resp: 1040

Ion Ratio Lower Upper

43 100

58 0.0 28.6 42.8#

85 0.0 11.8 17.8#



#59

2-Hexanone

Concen: 0.377 ug/l

RT: 11.201 min Scan# 1575

Delta R.T. 0.006 min

Lab File: VN076740.D

Acq: 17 Feb 2023 17:40

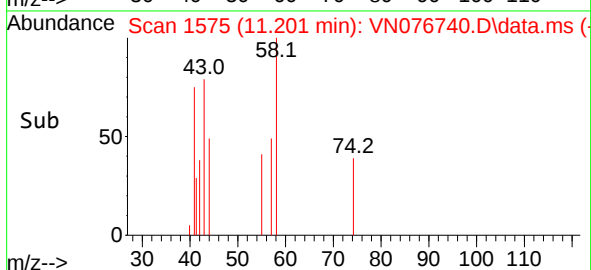
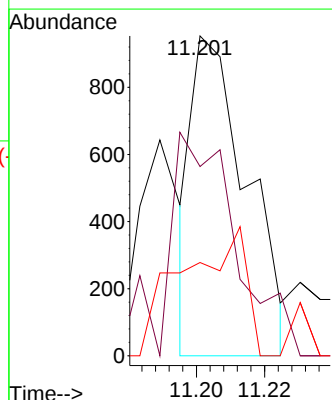
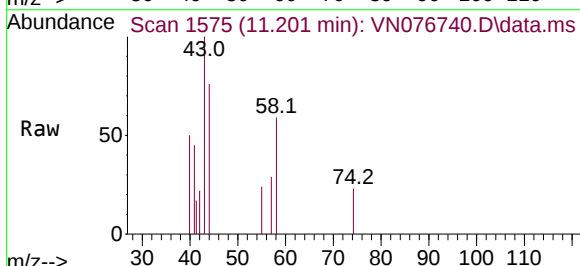
Tgt Ion: 43 Resp: 1067

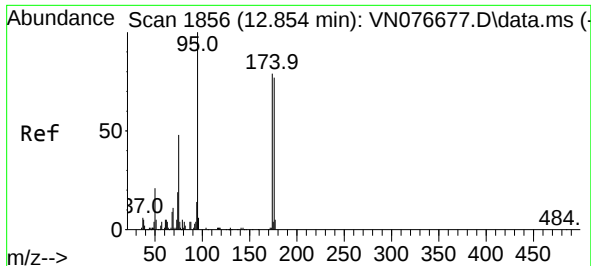
Ion Ratio Lower Upper

43 100

58 73.7 40.6 60.8#

57 33.9 13.1 19.7#

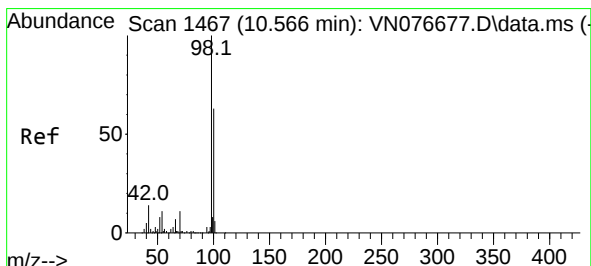
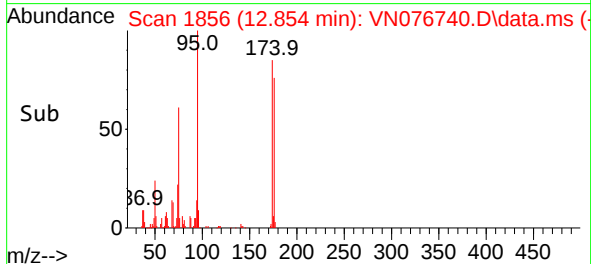
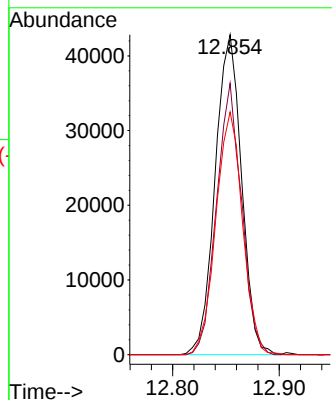
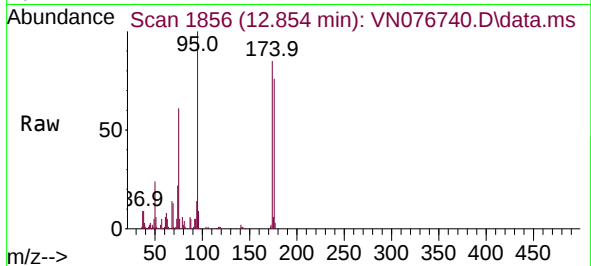




#60
4-Bromofluorobenzene
Concen: 25.980 ug/l
RT: 12.854 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN076740.D
Acq: 17 Feb 2023 17:40

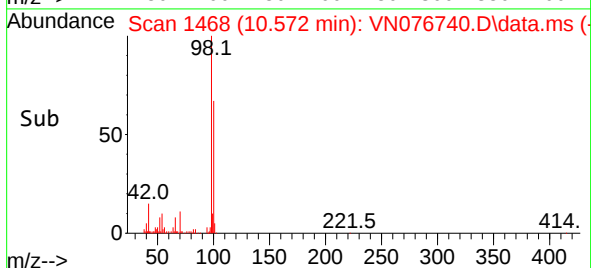
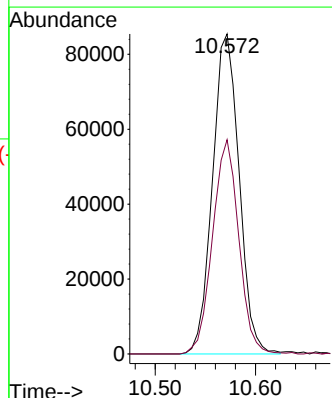
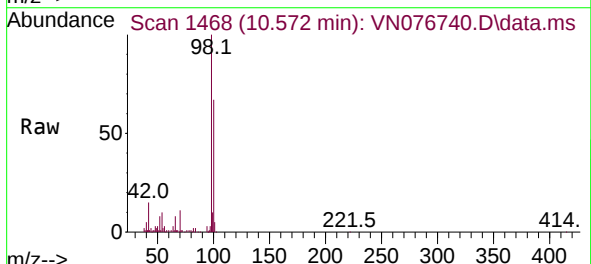
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

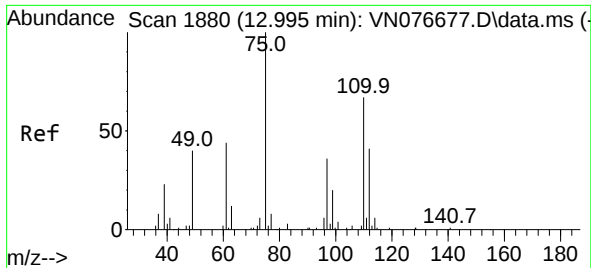
Tgt Ion: 95 Resp: 73601
Ion Ratio Lower Upper
95 100
174 80.4 64.2 96.4
176 76.7 61.4 92.0



#63
Toluene-d8
Concen: 28.115 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. 0.006 min
Lab File: VN076740.D
Acq: 17 Feb 2023 17:40

Tgt Ion: 98 Resp: 157728
Ion Ratio Lower Upper
98 100
100 65.9 53.8 80.6





#72
 1,2,3-Trichloropropane
 Concen: 12.622 ug/l
 RT: 12.854 min Scan# 11
 Delta R.T. -0.141 min
 Lab File: VN076740.D
 Acq: 17 Feb 2023 17:40

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WW

Tgt Ion: 75 Resp: 42555
 Ion Ratio Lower Upper
 75 100
 77 0.4 0.0 332.6

