

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100824\
 Data File : VN084352.D
 Acq On : 08 Oct 2024 16:29
 Operator : JC\MD
 Sample : P4289-01RE 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-Waste Water

Quant Time: Oct 09 02:32:28 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:21:08 2024
 Response via : Initial Calibration

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

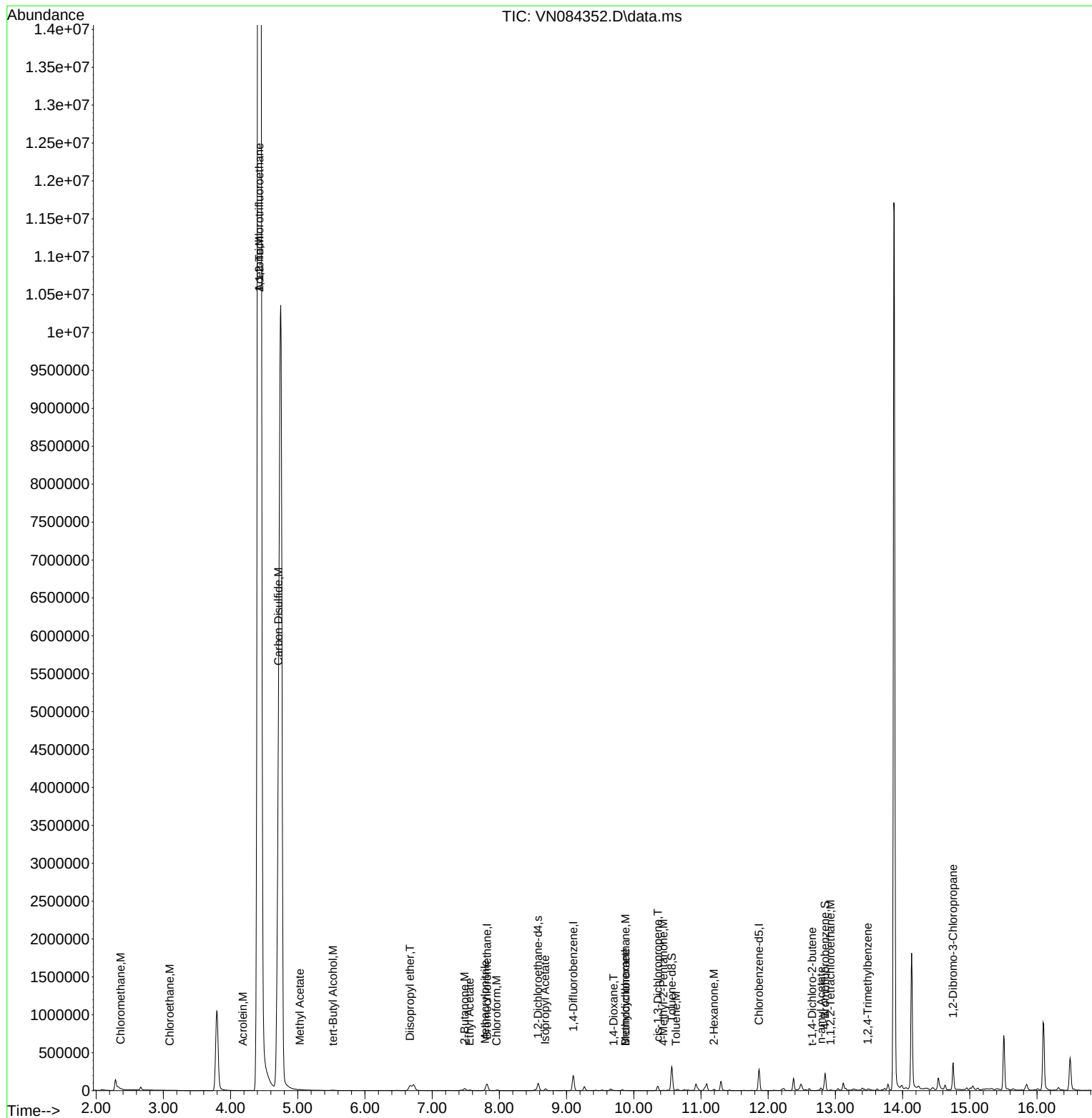
Internal Standards						
1) Bromochloromethane	7.818	128	29829	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	168825	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	160891	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	78053	32.502	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	108.333%
60) 4-Bromofluorobenzene	12.847	95	76050	28.640	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	95.467%
63) Toluene-d8	10.565	98	215643	28.932	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.433%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1496	0.722	ug/l #	42
6) Chloroethane	3.095	64	748	0.561	ug/l #	76
9) 1,1,2-Trichlorotrifluo...	4.430	101	3030	1.628	ug/l #	18
12) Methyl Acetate	5.030	43	583	0.251	ug/l #	51
13) Acrolein	4.183	56	1750	4.052	ug/l	98
15) Acetone	4.430	58	24614705	82486.421	ug/l #	3
16) Carbon Disulfide	4.712	76	2209	0.399	ug/l #	75
20) Diisopropyl ether	6.671	45	87799	13.563	ug/l #	98
23) tert-Butyl Alcohol	5.524	59	6367	15.890	ug/l #	100
25) Chloroform	7.959	83	8609	2.288	ug/l	84
30) 2-Butanone	7.483	43	41259	27.962	ug/l	99
35) Methacrylonitrile	7.788	41	1035	0.657	ug/l #	24
38) Methylcyclohexane	9.877	83	825	0.271	ug/l #	55
41) Bromodichloromethane	9.877	83	825	0.263	ug/l #	68
43) Ethyl Acetate	7.559	43	12689	4.360	ug/l #	87
44) Isopropyl Acetate	8.682	43	26680	5.601	ug/l #	84
45) 1,4-Dioxane	9.700	88	2943	68.542	ug/l #	91
47) n-amyl Acetate	12.788	43	8261	1.950	ug/l	95
49) cis-1,3-Dichloropropene	10.359	75	9837	2.894	ug/l #	70
58) 4-Methyl-2-Pentanone	10.441	43	4288	1.431	ug/l #	84
59) 2-Hexanone	11.194	43	11554	5.188	ug/l #	94
62) Toluene	10.629	91	3894	0.413	ug/l	94
71) 1,1,2,2-Tetrachloroethane	12.929	83	995	0.337	ug/l #	84
77) t-1,4-Dichloro-2-butene	12.653	75	669	0.619	ug/l #	12
80) 1,2,4-Trimethylbenzene	13.482	105	1878	0.230	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.753	75	1855	3.070	ug/l #	6

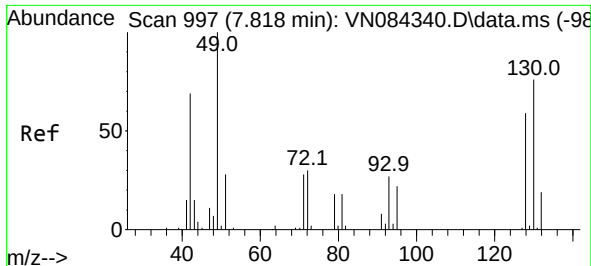
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Oct 09 02:21:08 2024
Response via : Initial Calibration

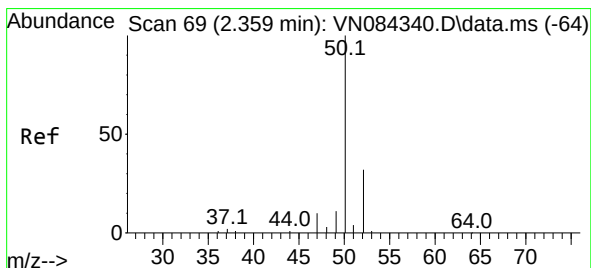
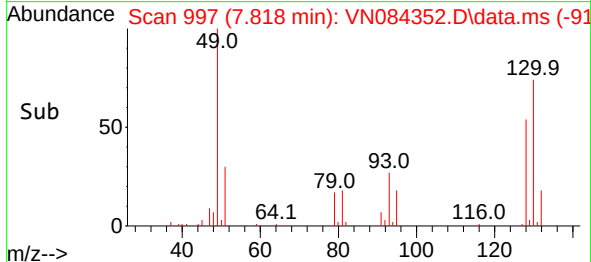
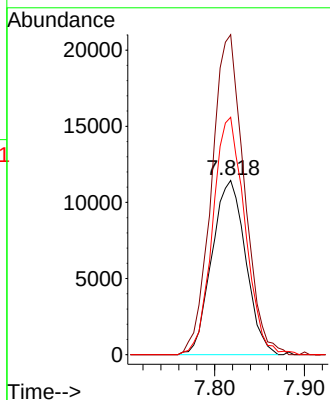
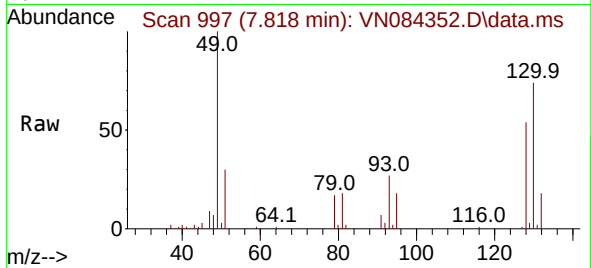




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN084352.D
Acq: 08 Oct 2024 16:29

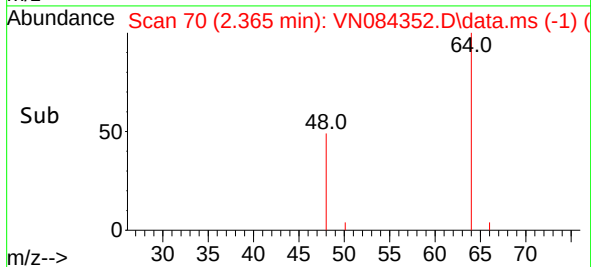
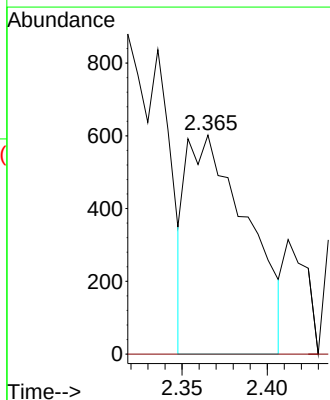
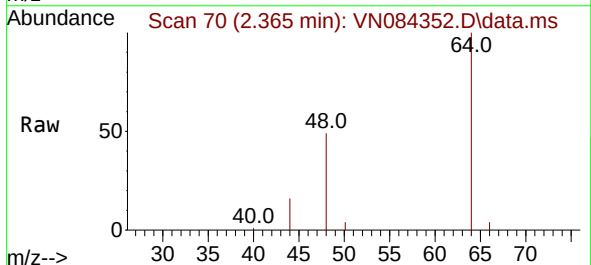
Instrument :
MSVOA_N
ClientSampleId :
EFF-Waste Water

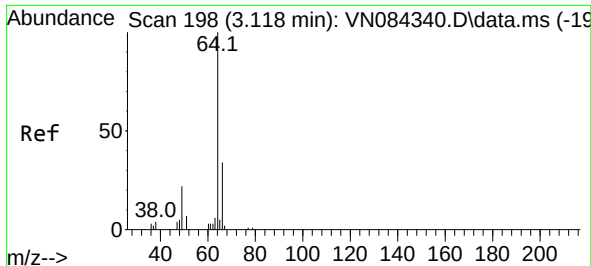
Tgt Ion:128 Resp: 29829
Ion Ratio Lower Upper
128 100
49 177.7 0.0 430.0
130 129.9 0.0 329.8



#3
Chloromethane
Concen: 0.722 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN084352.D
Acq: 08 Oct 2024 16:29

Tgt Ion: 50 Resp: 1496
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.6#

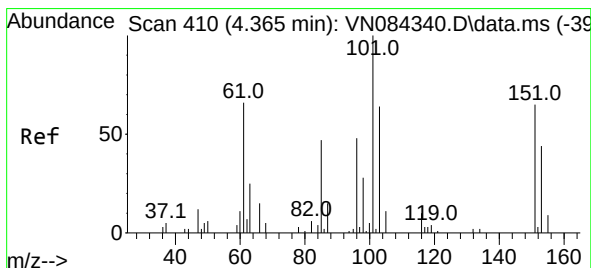
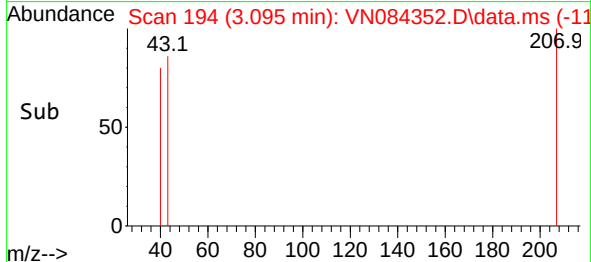
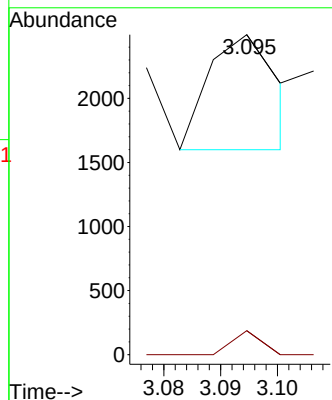
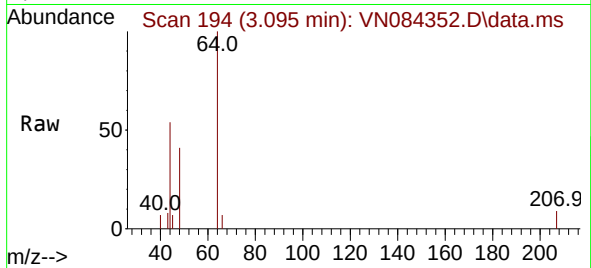




#6
Chloroethane
Concen: 0.561 ug/l
RT: 3.095 min Scan# 198
Delta R.T. -0.024 min
Lab File: VN084352.D
Acq: 08 Oct 2024 16:29

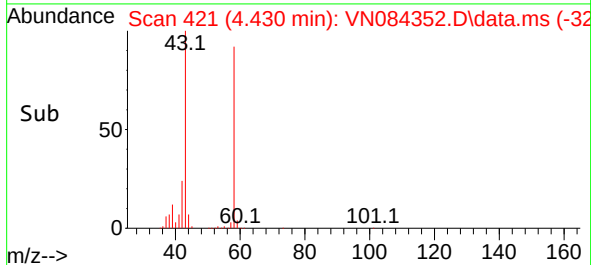
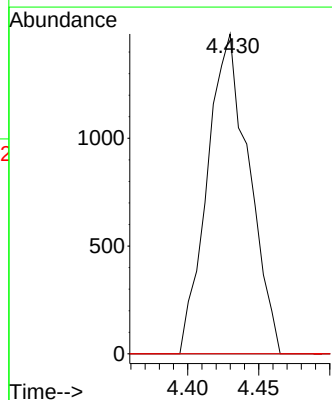
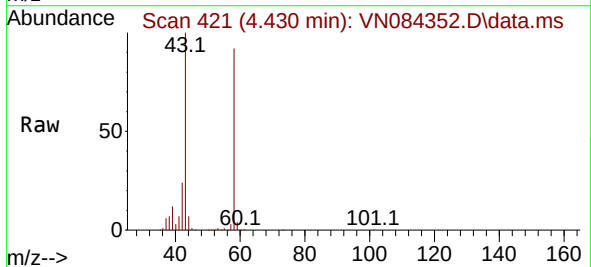
Instrument :
MSVOA_N
ClientSampleId :
EFF-Waste Water

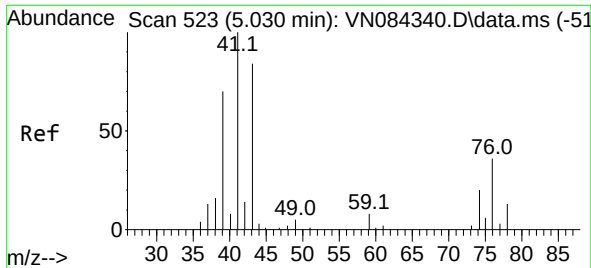
Tgt Ion: 64 Resp: 748
Ion Ratio Lower Upper
64 100
66 20.8 27.7 41.5#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.628 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.065 min
Lab File: VN084352.D
Acq: 08 Oct 2024 16:29

Tgt Ion: 101 Resp: 3030
Ion Ratio Lower Upper
101 100
85 0.0 0.0 93.6
151 0.0 0.0 151.8

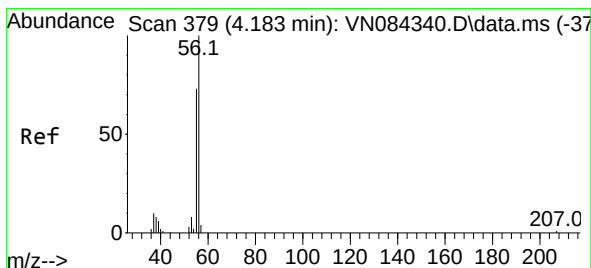
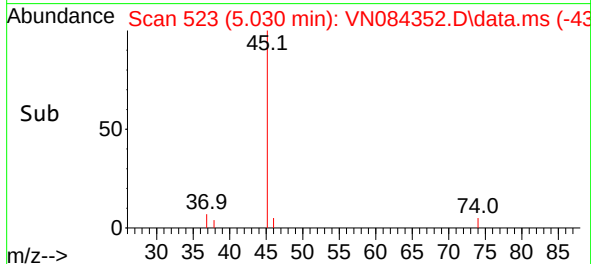
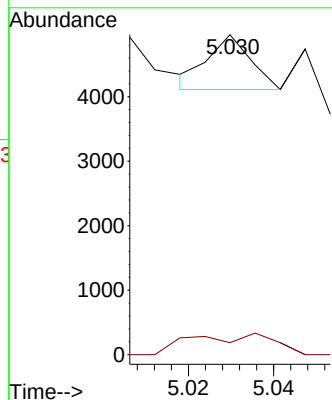
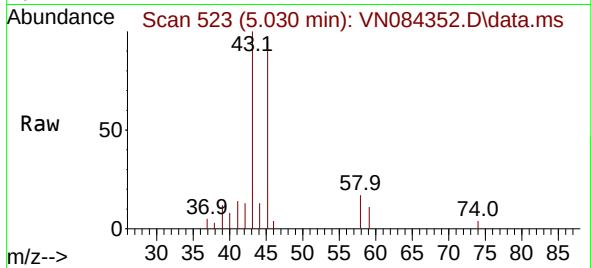




#12
Methyl Acetate
Concen: 0.251 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN084352.D
Acq: 08 Oct 2024 16:29

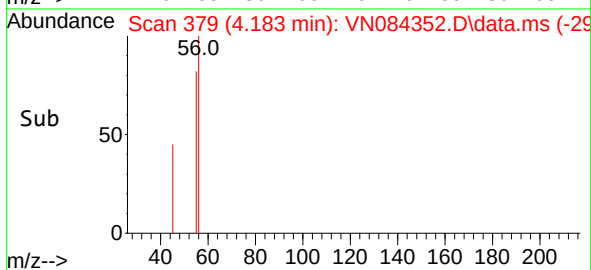
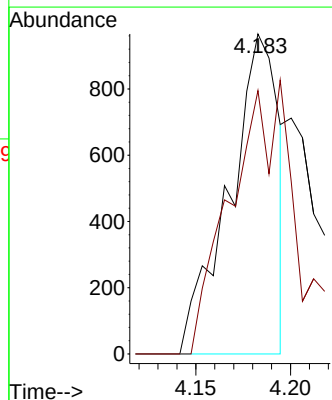
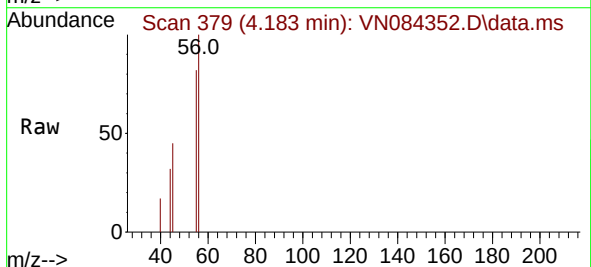
Instrument :
MSVOA_N
ClientSampleId :
EFF-Waste Water

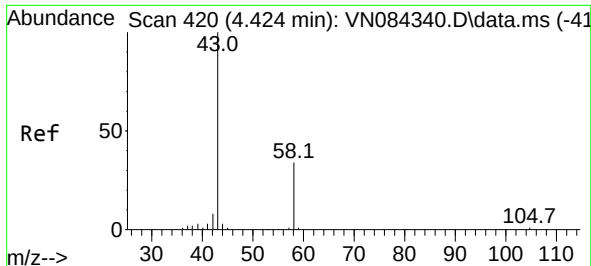
Tgt Ion: 43 Resp: 583
Ion Ratio Lower Upper
43 100
74 0.0 19.4 29.2#



#13
Acrolein
Concen: 4.052 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.000 min
Lab File: VN084352.D
Acq: 08 Oct 2024 16:29

Tgt Ion: 56 Resp: 1750
Ion Ratio Lower Upper
56 100
55 68.9 56.4 84.6





#15

Acetone

Concen: 82486.421 ug/l

RT: 4.430 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN084352.D

Acq: 08 Oct 2024 16:29

Instrument :

MSVOA_N

ClientSampleId :

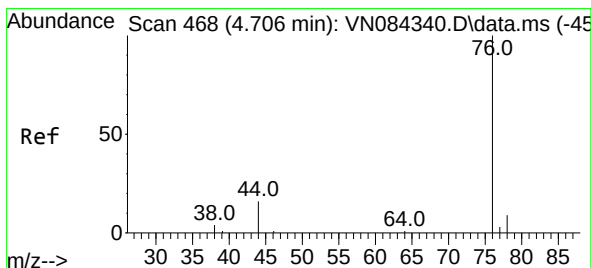
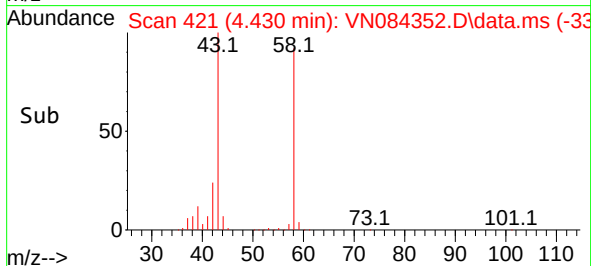
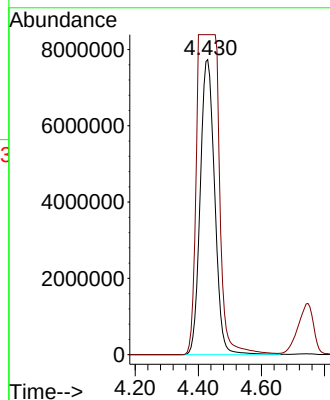
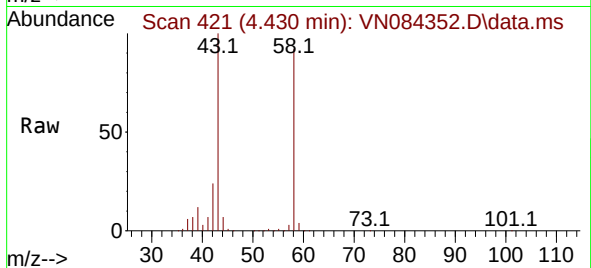
EFF-Waste Water

Tgt Ion: 58 Resp:24614705

Ion Ratio Lower Upper

58 100

43 108.5 237.5 356.3#



#16

Carbon Disulfide

Concen: 0.399 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.006 min

Lab File: VN084352.D

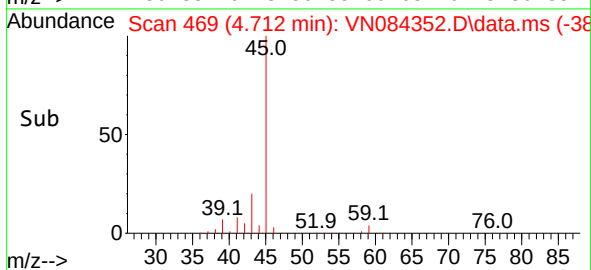
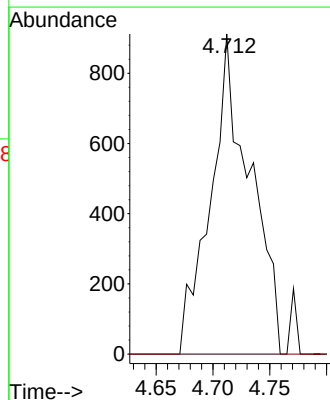
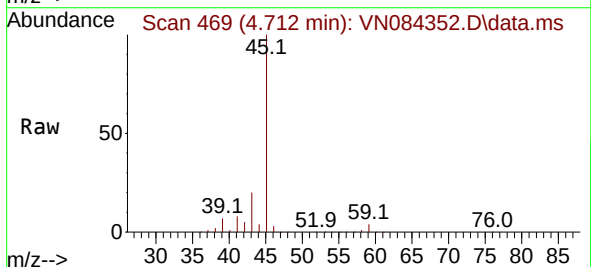
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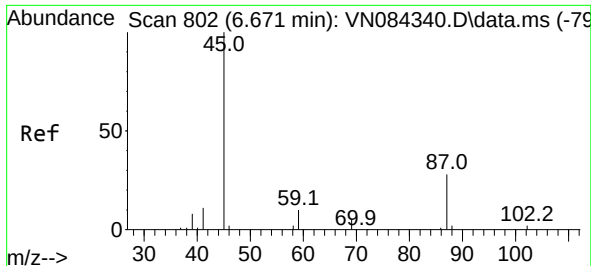
Tgt Ion: 76 Resp: 2209

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#

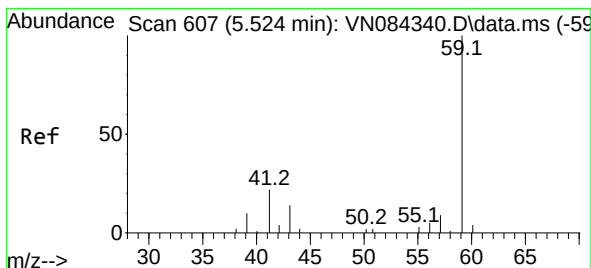
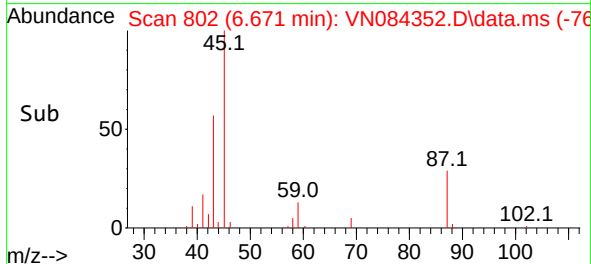
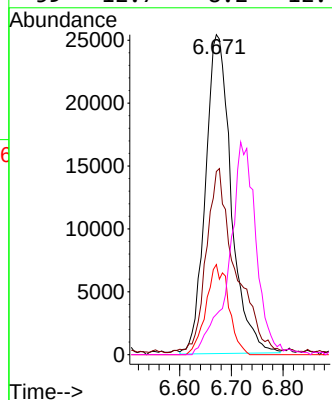
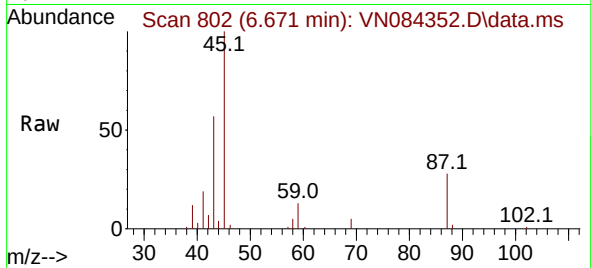




#20
Diisopropyl ether
Concen: 13.563 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN084352.D
Acq: 08 Oct 2024 16:29

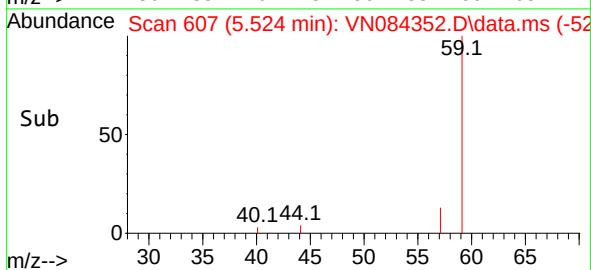
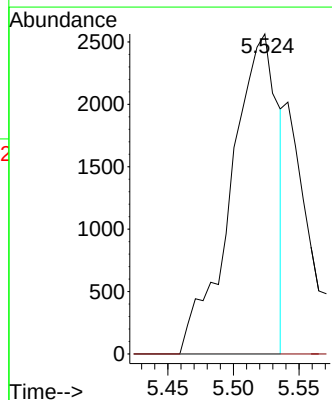
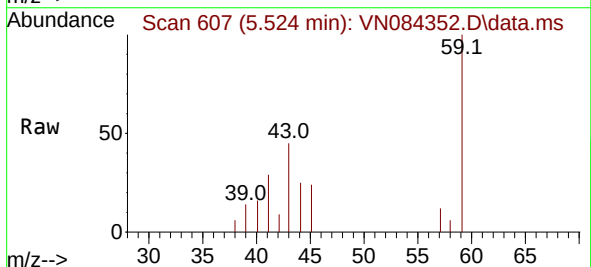
Instrument :
MSVOA_N
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EFF-Waste Water

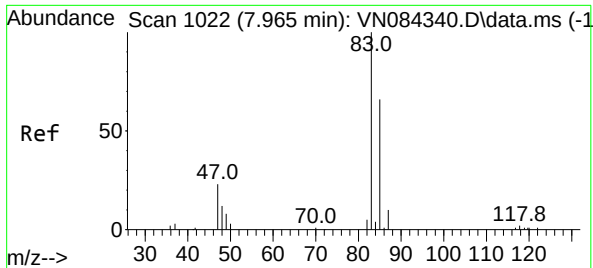
Tgt Ion: 45	Resp: 87799
Ion Ratio	Lower Upper
45 100	
43 56.3	43.7 65.5
87 28.4	23.1 34.7
59 12.7	8.2 12.4



#23
tert-Butyl Alcohol
Concen: 15.890 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.000 min
Lab File: VN084352.D
Acq: 08 Oct 2024 16:29

Tgt Ion: 59	Resp: 6367
Ion Ratio	Lower Upper
59 100	
52 0.0	0.0 0.0

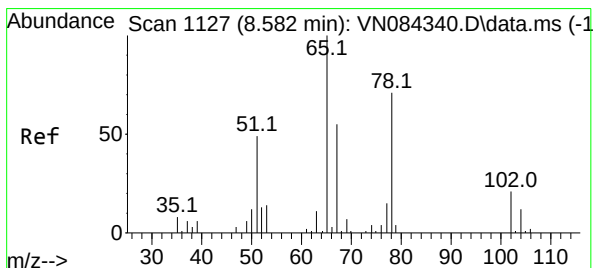
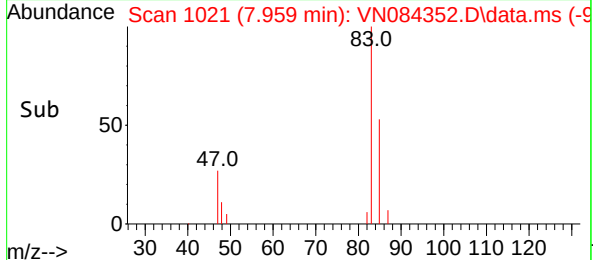
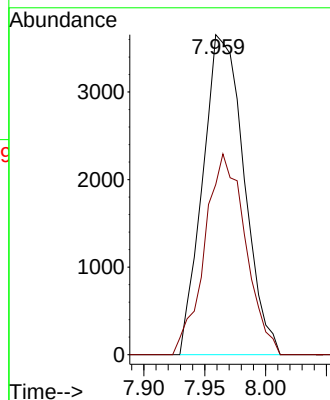
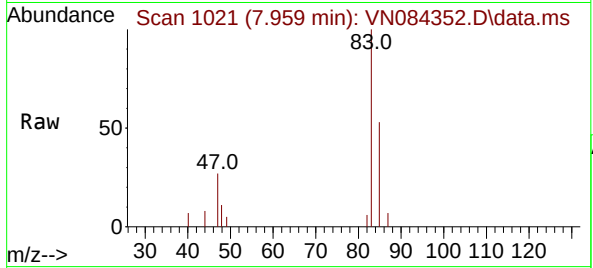




#25
Chloroform
Concen: 2.288 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. -0.006 min
Lab File: VN084352.D
Acq: 08 Oct 2024 16:29

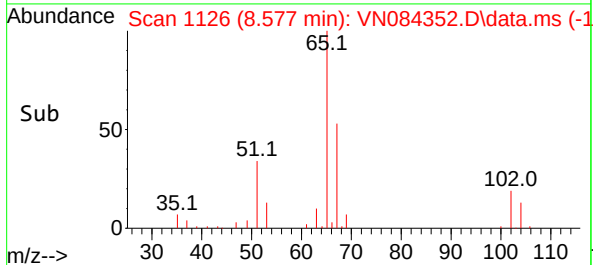
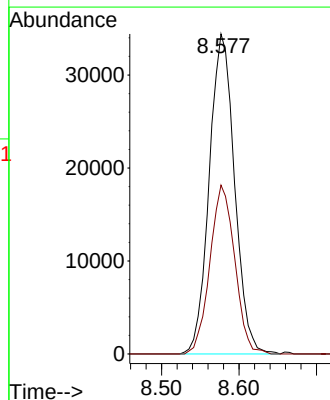
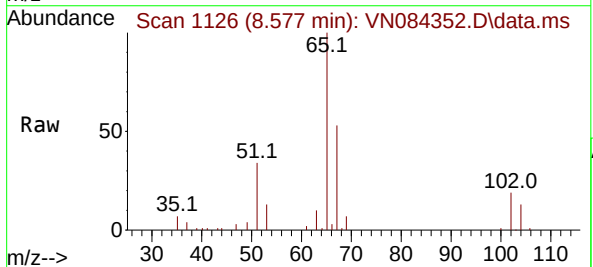
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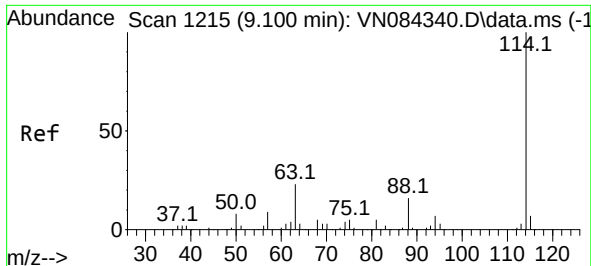
Tgt Ion: 83 Resp: 8609
Ion Ratio Lower Upper
83 100
85 53.1 52.4 78.6



#27
1,2-Dichloroethane-d4
Concen: 32.502 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.006 min
Lab File: VN084352.D
Acq: 08 Oct 2024 16:29

Tgt Ion: 65 Resp: 78053
Ion Ratio Lower Upper
65 100
67 51.5 41.5 62.3





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 114

Delta R.T. 0.000 min

Lab File: VN084352.D

Acq: 08 Oct 2024 16:29

Instrument :

MSVOA_N

ClientSampleId :

EFF-Waste Water

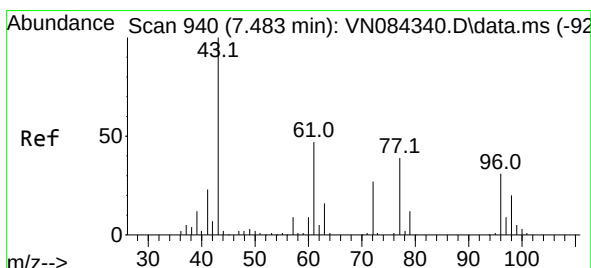
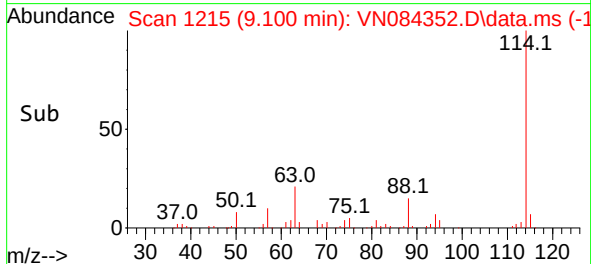
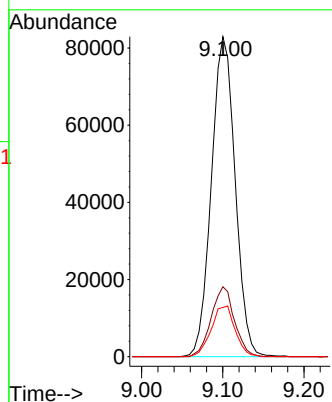
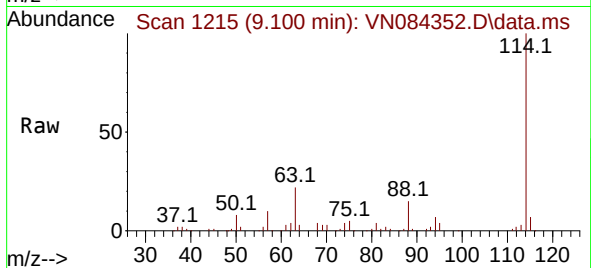
Tgt Ion:114 Resp: 168825

Ion Ratio Lower Upper

114 100

63 21.4 17.4 26.0

88 16.0 13.2 19.8



#30

2-Butanone

Concen: 27.962 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN084352.D

Acq: 08 Oct 2024 16:29

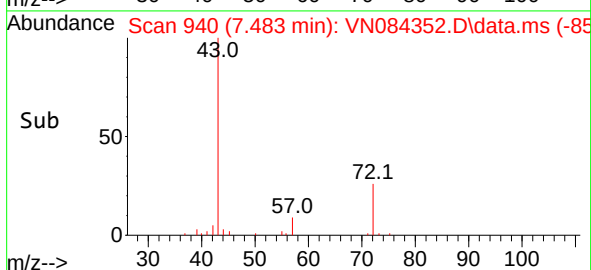
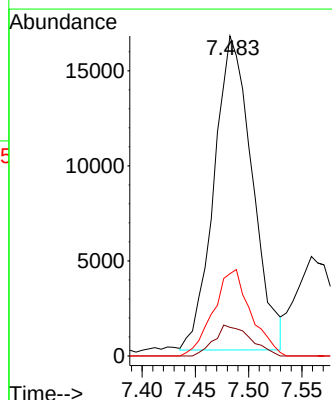
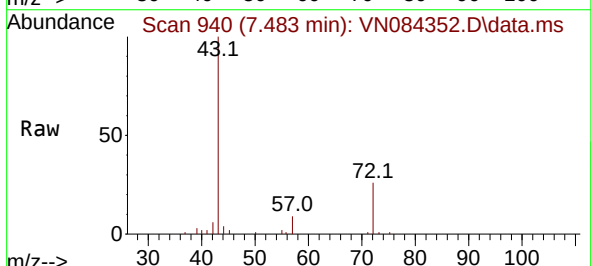
Tgt Ion: 43 Resp: 41259

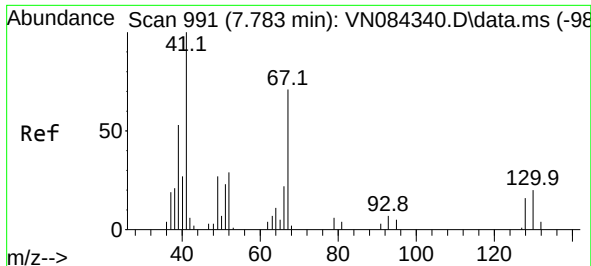
Ion Ratio Lower Upper

43 100

57 9.3 6.6 9.8

72 26.7 21.3 31.9

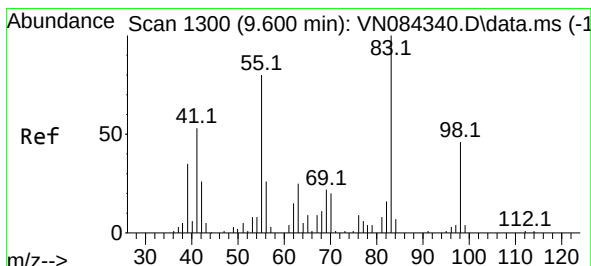
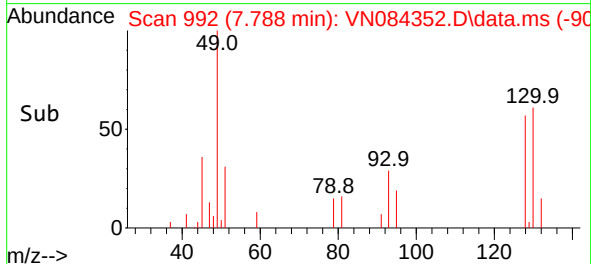
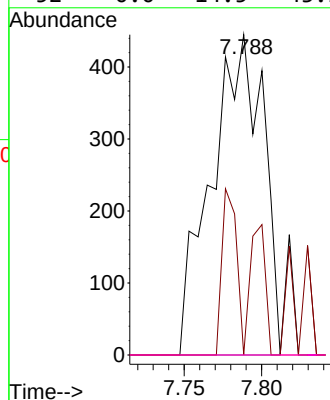
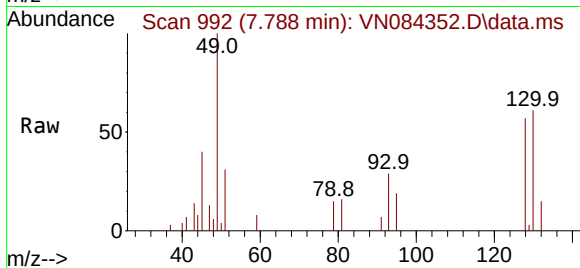




#35
Methacrylonitrile
Concen: 0.657 ug/l
RT: 7.788 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN084352.D
Acq: 08 Oct 2024 16:29

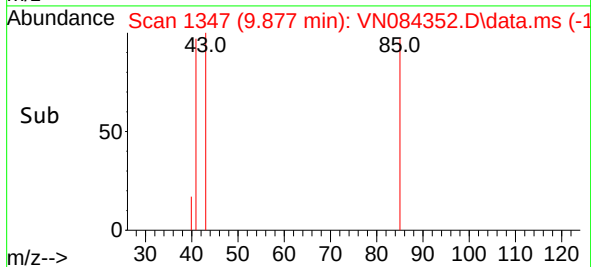
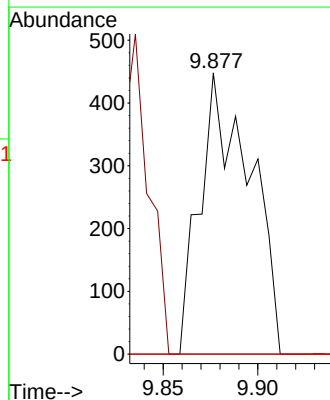
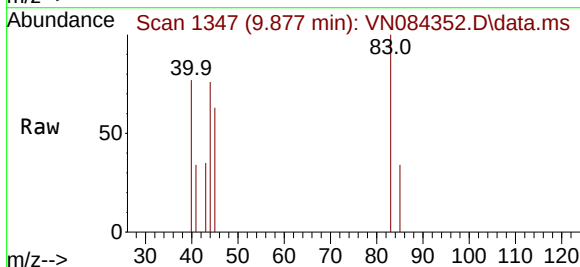
Instrument :
MSVOA_N
ClientSampleId :
EFF-Waste Water

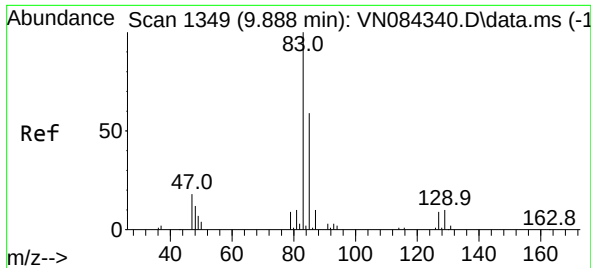
Tgt Ion:	41	Resp:	1035
Ion	Ratio	Lower	Upper
41	100		
39	0.0	26.4	79.0#
67	0.0	35.7	107.1#
52	0.0	14.5	43.5#



#38
Methylcyclohexane
Concen: 0.271 ug/l
RT: 9.877 min Scan# 1347
Delta R.T. 0.276 min
Lab File: VN084352.D
Acq: 08 Oct 2024 16:29

Tgt Ion:	83	Resp:	825
Ion	Ratio	Lower	Upper
83	100		
55	103.4	39.3	117.8
98	0.0	24.0	72.0#

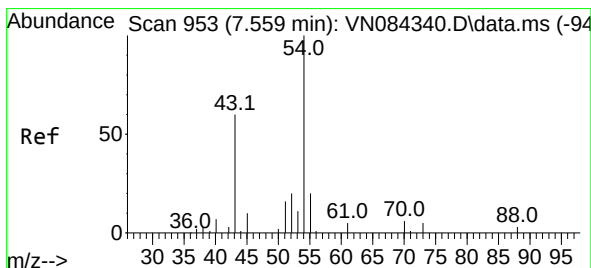
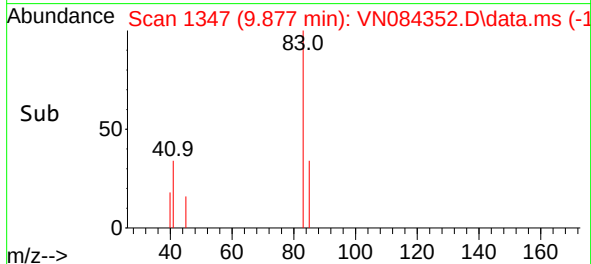
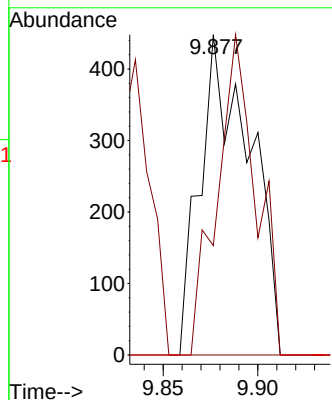
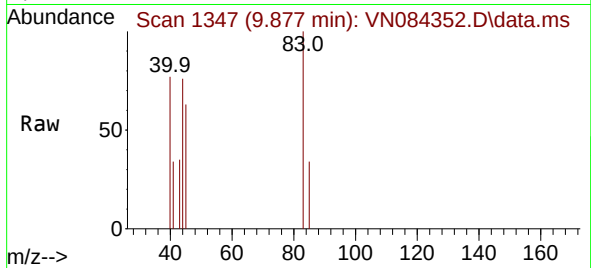




#41
Bromodichloromethane
Concen: 0.263 ug/l
RT: 9.877 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN084352.D
Acq: 08 Oct 2024 16:29

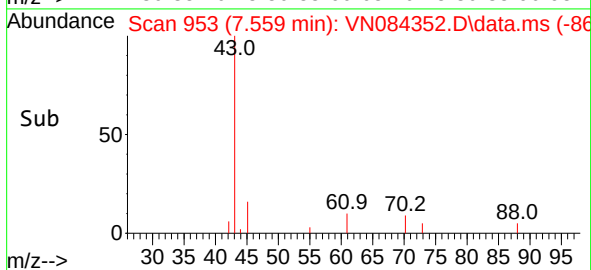
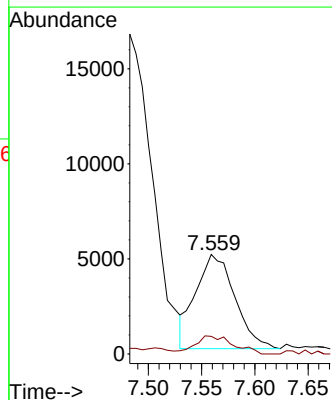
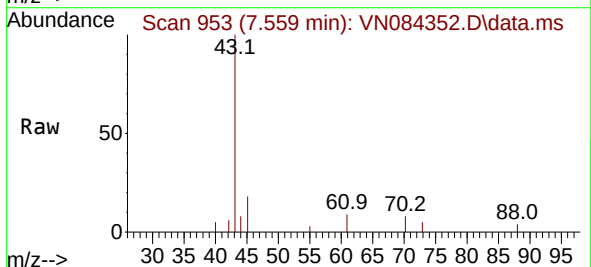
Instrument :
MSVOA_N
ClientSampleId :
EFF-Waste Water

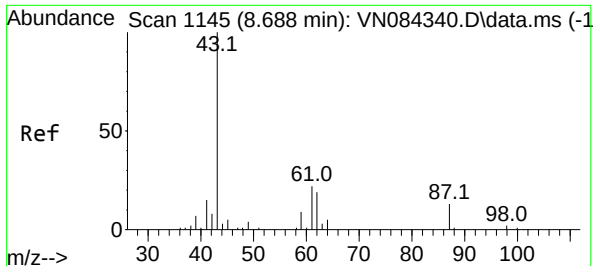
Tgt Ion: 83 Resp: 825
Ion Ratio Lower Upper
83 100
85 34.2 47.1 70.7#
127 0.0 7.1 10.7#



#43
Ethyl Acetate
Concen: 4.360 ug/l
RT: 7.559 min Scan# 953
Delta R.T. 0.000 min
Lab File: VN084352.D
Acq: 08 Oct 2024 16:29

Tgt Ion: 43 Resp: 12689
Ion Ratio Lower Upper
43 100
45 8.3 10.6 16.0#





#44

Isopropyl Acetate

Concen: 5.601 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.006 min

Lab File: VN084352.D

Acq: 08 Oct 2024 16:29

Instrument :

MSVOA_N

ClientSampleId :

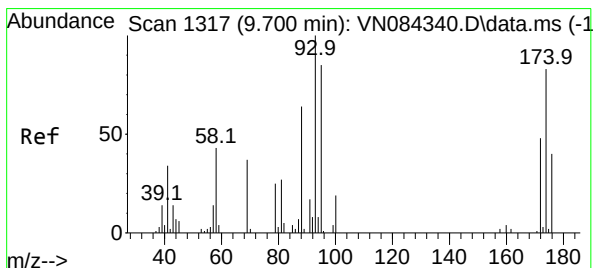
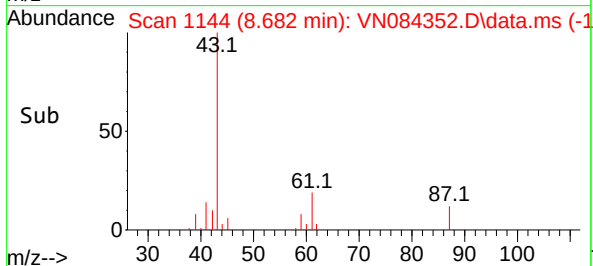
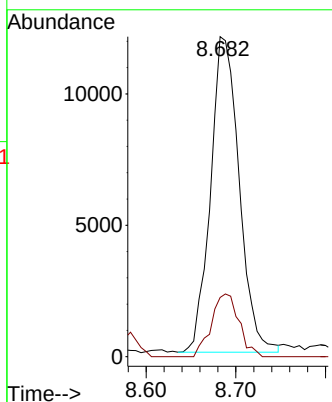
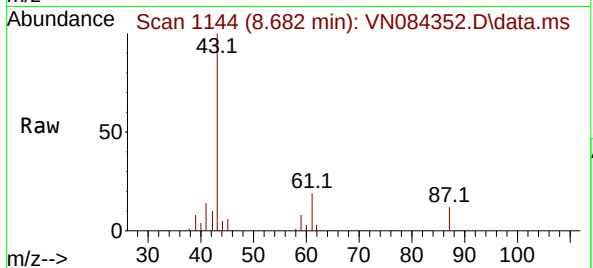
EFF-Waste Water

Tgt Ion: 43 Resp: 26680

Ion Ratio Lower Upper

43 100

61 18.3 21.4 32.2#



#45

1,4-Dioxane

Concen: 68.542 ug/l

RT: 9.700 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VN084352.D

Acq: 08 Oct 2024 16:29

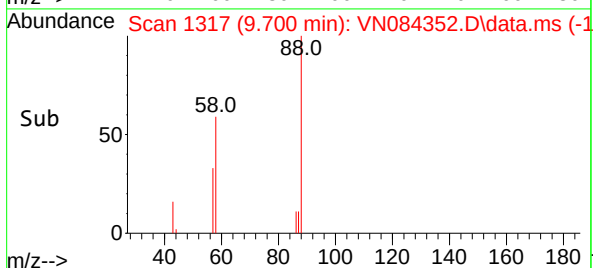
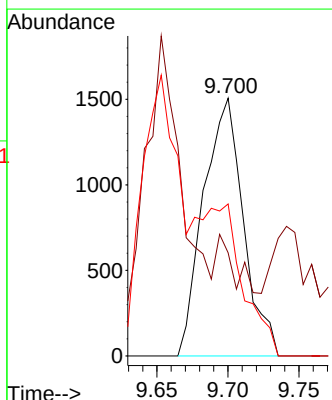
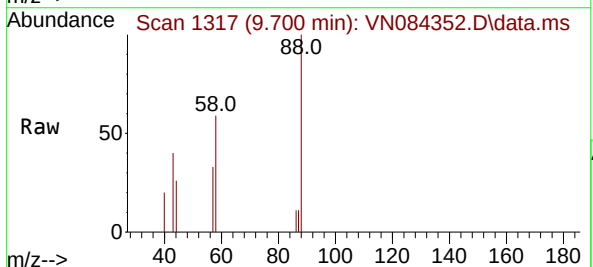
Tgt Ion: 88 Resp: 2943

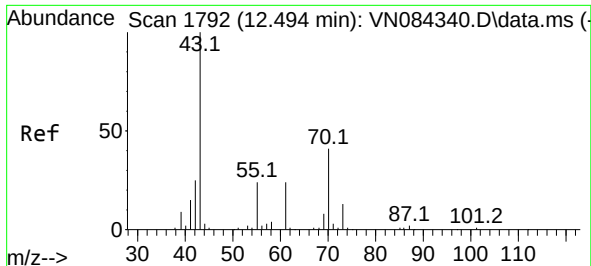
Ion Ratio Lower Upper

88 100

43 20.4 22.4 33.6#

58 69.1 59.7 89.5





#47

n-amyl acetate

Concen: 1.950 ug/l

RT: 12.788 min Scan# 11

Delta R.T. 0.294 min

Lab File: VN084352.D

Acq: 08 Oct 2024 16:29

Instrument :

MSVOA_N

ClientSampleId :

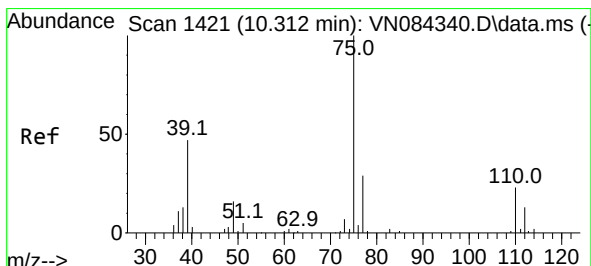
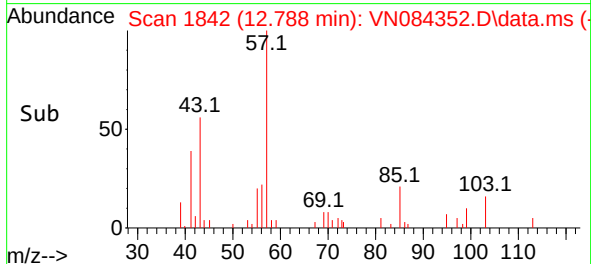
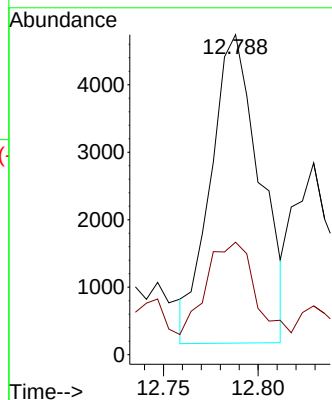
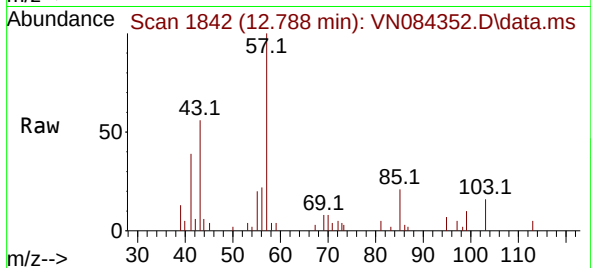
EFF-Waste Water

Tgt Ion: 43 Resp: 8261

Ion Ratio Lower Upper

43 100

55 28.5 20.6 31.0



#49

cis-1,3-Dichloropropene

Concen: 2.894 ug/l

RT: 10.359 min Scan# 1429

Delta R.T. 0.047 min

Lab File: VN084352.D

Acq: 08 Oct 2024 16:29

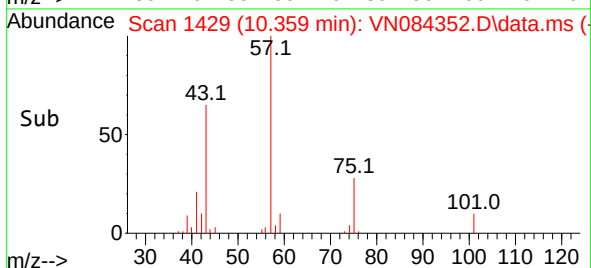
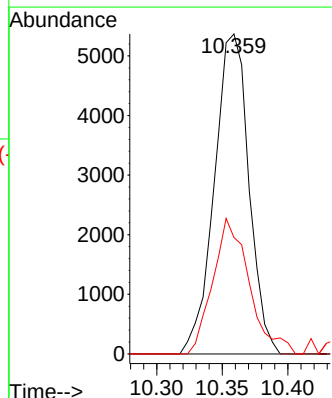
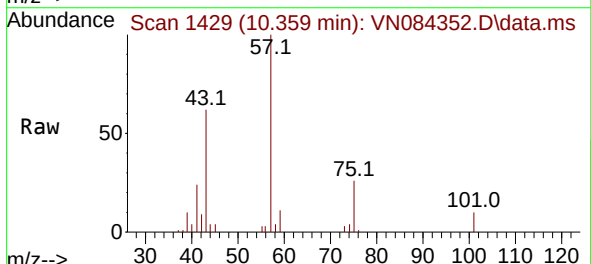
Tgt Ion: 75 Resp: 9837

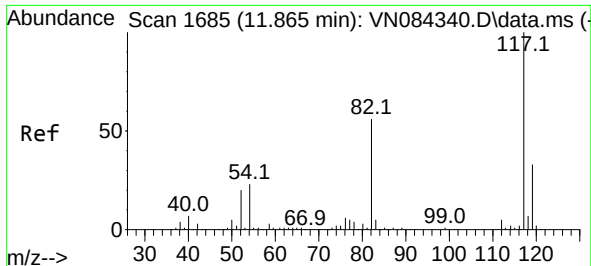
Ion Ratio Lower Upper

75 100

77 0.0 22.9 34.3#

39 36.4 37.4 56.2#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN084352.D

Acq: 08 Oct 2024 16:29

Instrument :

MSVOA_N

ClientSampleId :

EFF-Waste Water

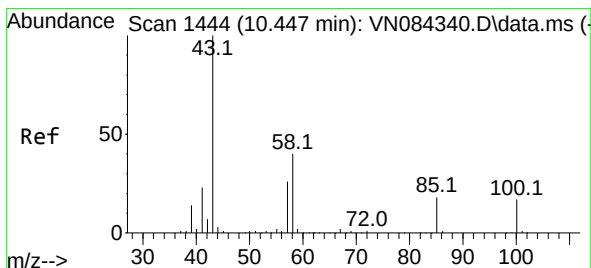
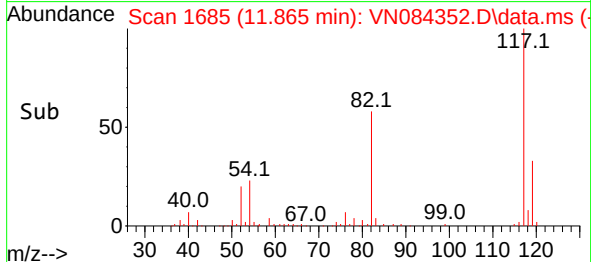
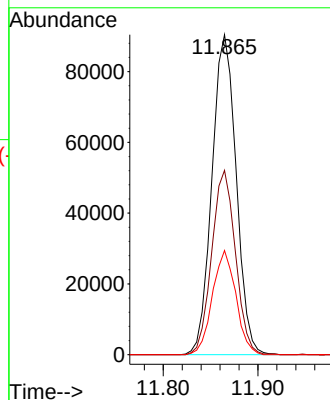
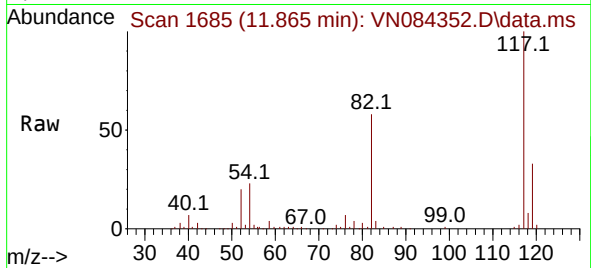
Tgt Ion:117 Resp: 160891

Ion Ratio Lower Upper

117 100

82 56.3 46.2 69.4

119 31.6 25.4 38.2



#58

4-Methyl-2-Pentanone

Concen: 1.431 ug/l

RT: 10.441 min Scan# 1443

Delta R.T. -0.006 min

Lab File: VN084352.D

Acq: 08 Oct 2024 16:29

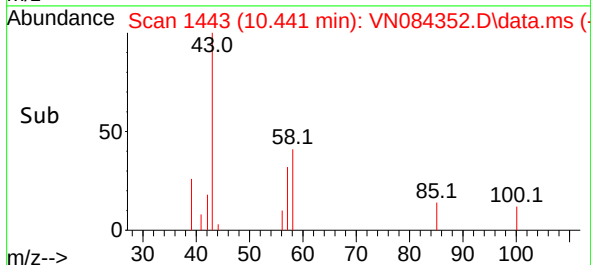
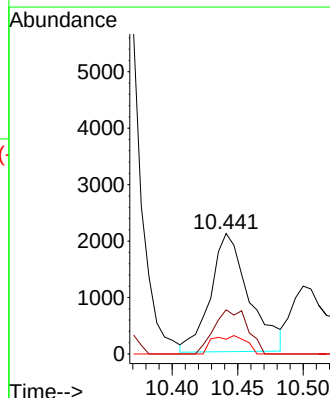
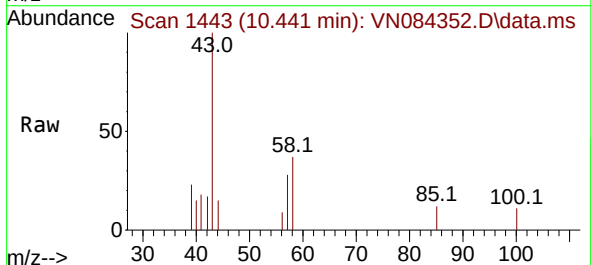
Tgt Ion: 43 Resp: 4288

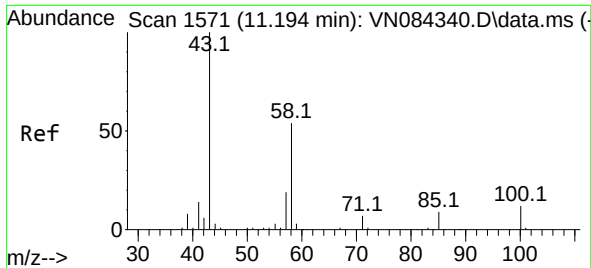
Ion Ratio Lower Upper

43 100

58 32.9 31.9 47.9

85 6.8 14.6 22.0#

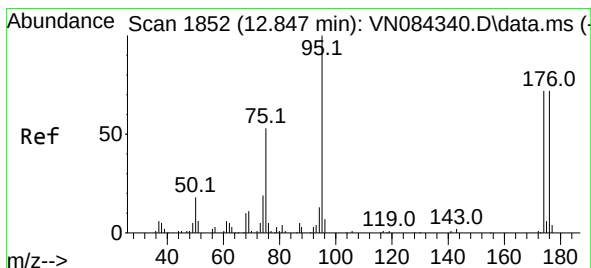
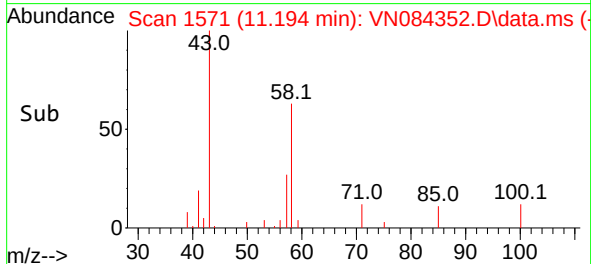
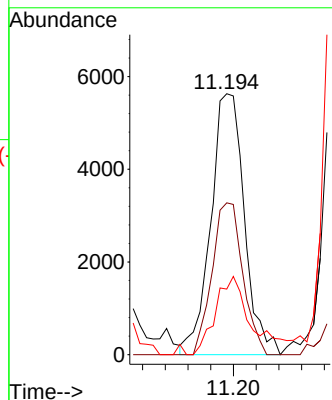
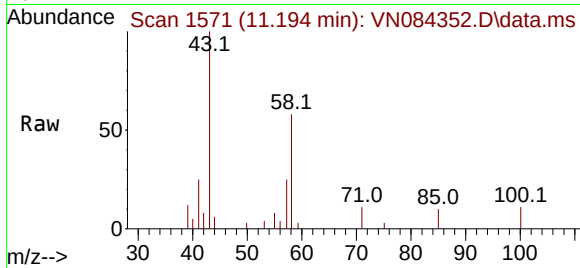




#59
2-Hexanone
Concen: 5.188 ug/l
RT: 11.194 min Scan# 11554
Delta R.T. 0.000 min
Lab File: VN084352.D
Acq: 08 Oct 2024 16:29

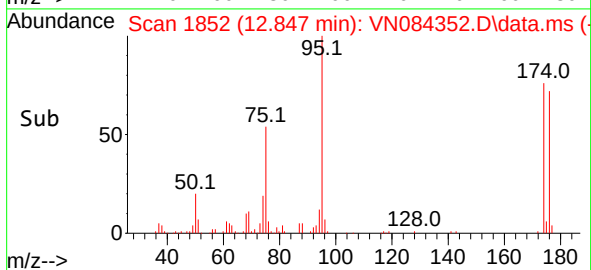
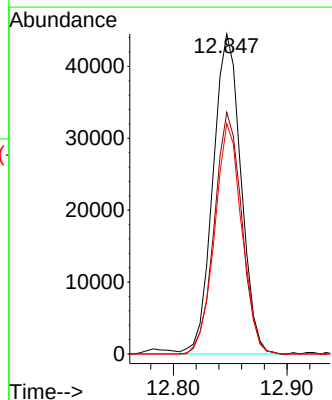
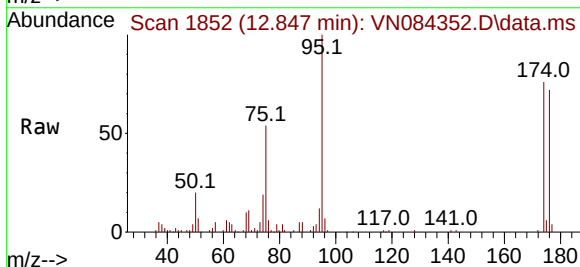
Instrument :
MSVOA_N
ClientSampleId :
EFF-Waste Water

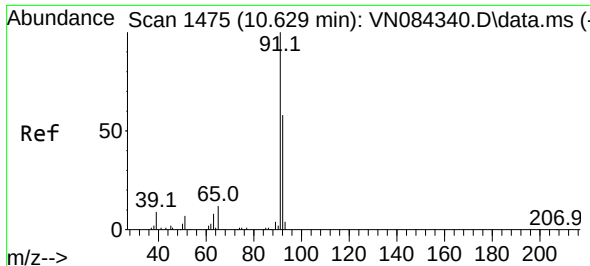
Tgt Ion: 43	Resp:	11554
Ion	Ratio	Lower Upper
43	100	
58	53.3	44.0 66.0
57	27.3	15.4 23.2#



#60
4-Bromofluorobenzene
Concen: 28.640 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084352.D
Acq: 08 Oct 2024 16:29

Tgt Ion: 95	Resp:	76050
Ion	Ratio	Lower Upper
95	100	
174	73.9	58.2 87.2
176	70.2	56.4 84.6

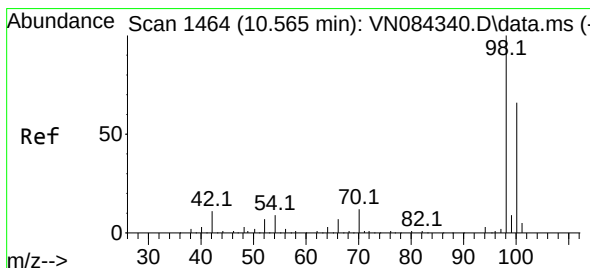
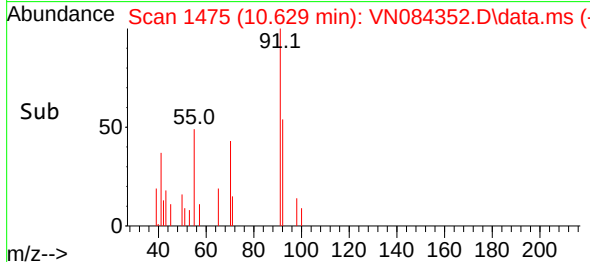
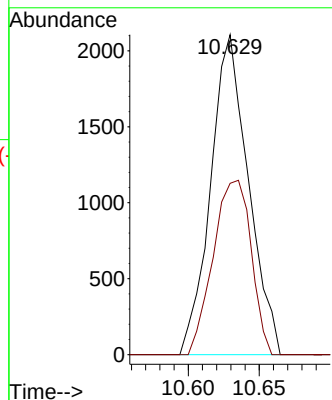
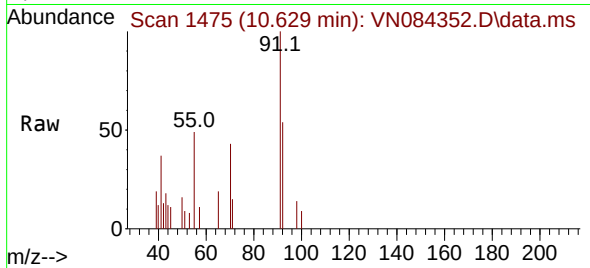




#62
Toluene
Concen: 0.413 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN084352.D
Acq: 08 Oct 2024 16:29

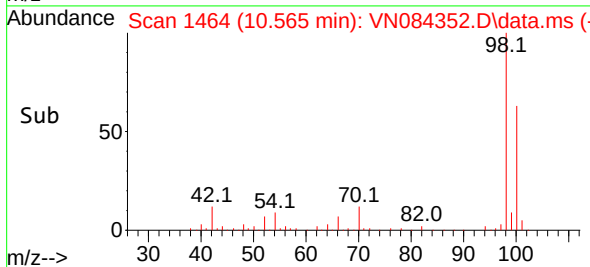
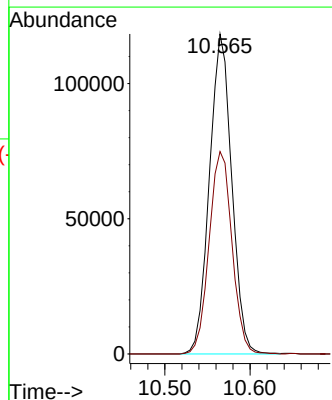
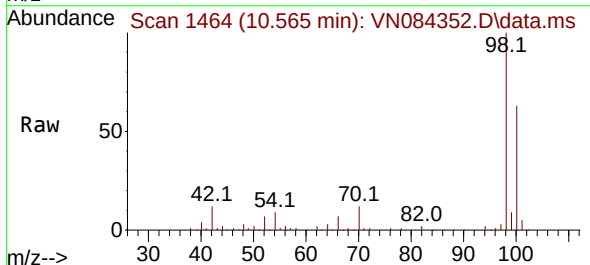
Instrument :
MSVOA_N
ClientSampleId :
EFF-Waste Water

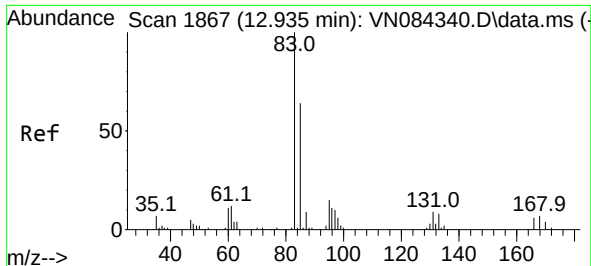
Tgt Ion: 91 Resp: 3894
Ion Ratio Lower Upper
91 100
92 54.8 47.2 70.8



#63
Toluene-d8
Concen: 28.932 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN084352.D
Acq: 08 Oct 2024 16:29

Tgt Ion: 98 Resp: 215643
Ion Ratio Lower Upper
98 100
100 64.8 52.5 78.7

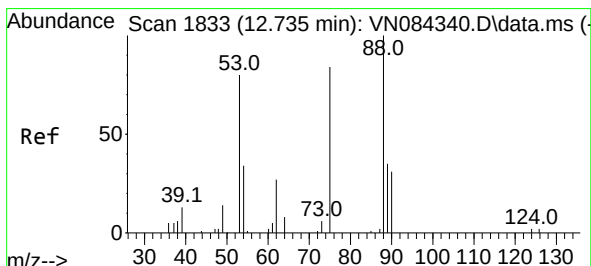
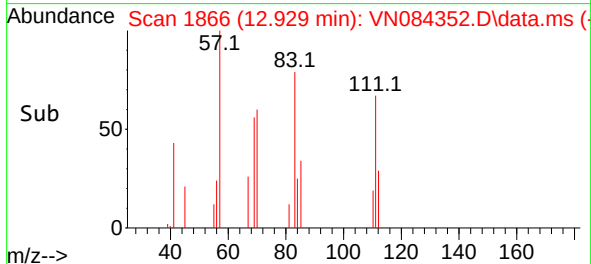
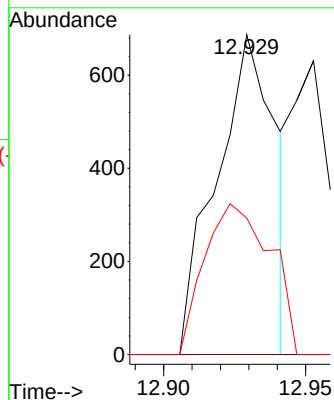
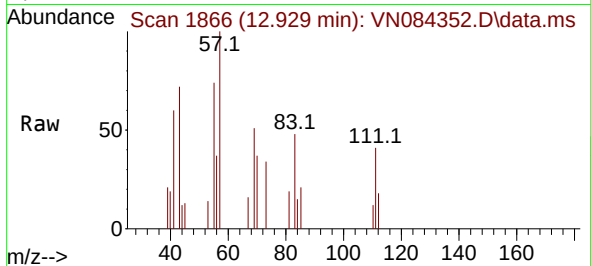




#71
1,1,2,2-Tetrachloroethane
Concen: 0.337 ug/l
RT: 12.929 min Scan# 1866
Delta R.T. -0.006 min
Lab File: VN084352.D
Acq: 08 Oct 2024 16:29

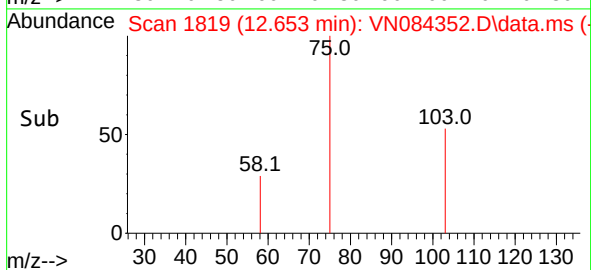
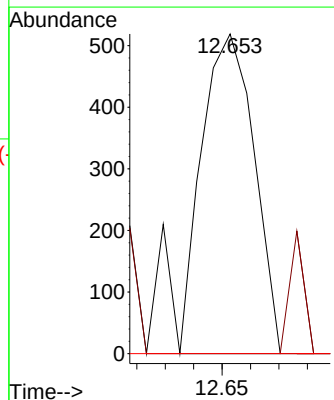
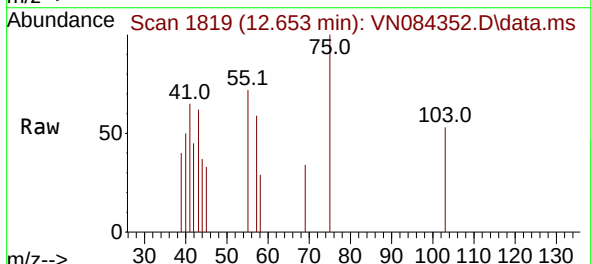
Instrument :
MSVOA_N
ClientSampleId :
EFF-Waste Water

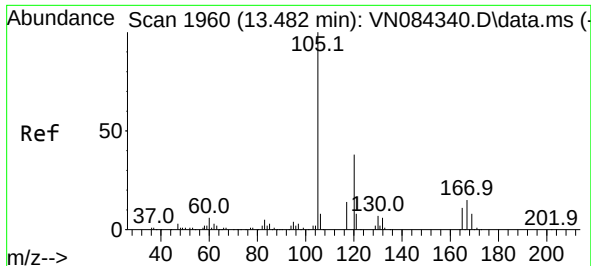
Tgt Ion: 83 Resp: 995
Ion Ratio Lower Upper
83 100
131 0.0 5.1 15.3#
85 52.7 32.0 96.2



#77
t-1,4-Dichloro-2-butene
Concen: 0.619 ug/l
RT: 12.653 min Scan# 1819
Delta R.T. -0.082 min
Lab File: VN084352.D
Acq: 08 Oct 2024 16:29

Tgt Ion: 75 Resp: 669
Ion Ratio Lower Upper
75 100
53 0.0 47.3 142.0#
89 0.0 22.9 68.8#

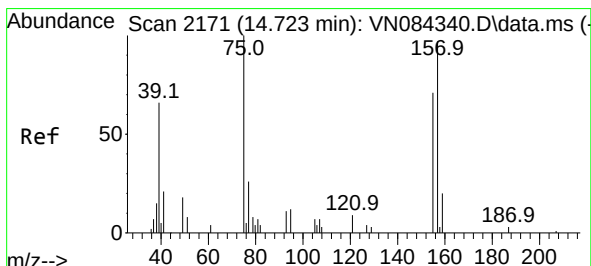
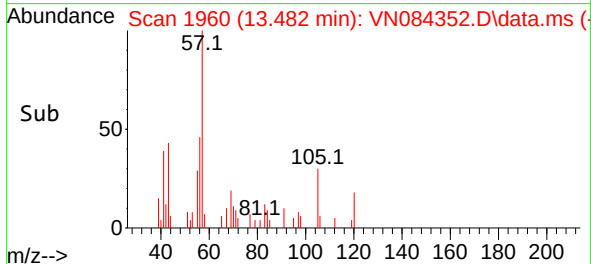
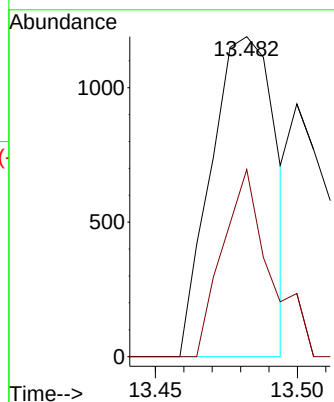
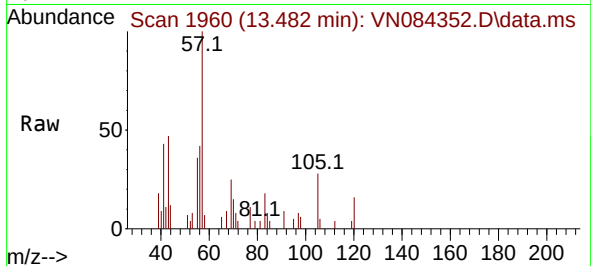




#80
1,2,4-Trimethylbenzene
Concen: 0.230 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN084352.D
Acq: 08 Oct 2024 16:29

Instrument :
MSVOA_N
ClientSampleId :
EFF-Waste Water

Tgt Ion:105 Resp: 1878
Ion Ratio Lower Upper
105 100
120 43.1 0.0 88.8



#88
1,2-Dibromo-3-Chloropropane
Concen: 3.070 ug/l
RT: 14.753 min Scan# 2176
Delta R.T. 0.029 min
Lab File: VN084352.D
Acq: 08 Oct 2024 16:29

Tgt Ion: 75 Resp: 1855
Ion Ratio Lower Upper
75 100
155 0.0 61.8 92.8#
157 0.0 77.4 116.0#

