

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071825\
 Data File : VN087359.D
 Acq On : 18 Jul 2025 12:34
 Operator : JC\MD
 Sample : Q2585-01 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WW

Quant Time: Jul 18 23:18:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 25 10:49:56 2025
 Response via : Initial Calibration

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

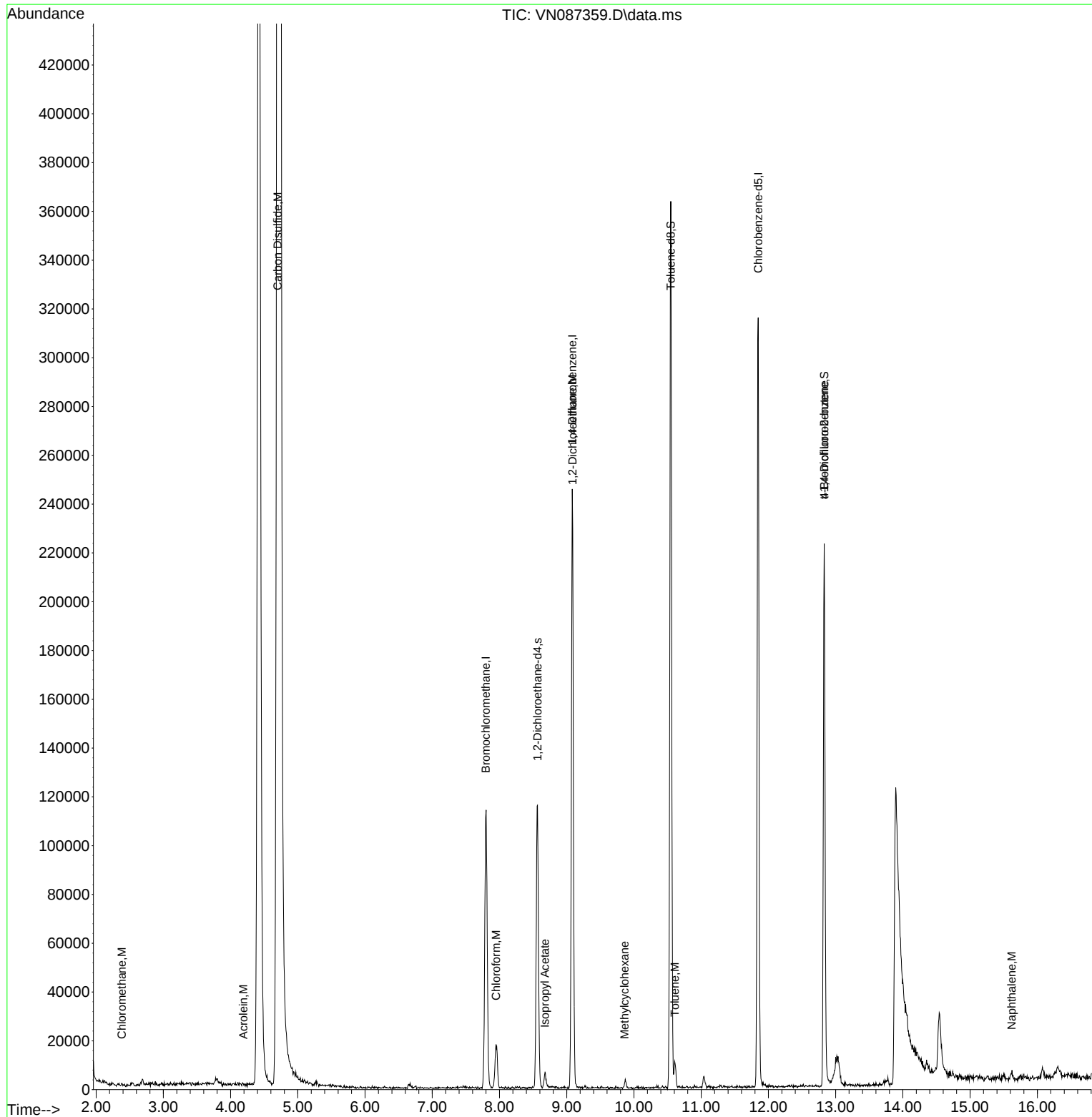
Internal Standards						
1) Bromochloromethane	7.795	128	39334	30.000	ug/l	-0.03
28) 1,4-Difluorobenzene	9.083	114	205259	30.000	ug/l	-0.02
57) Chlorobenzene-d5	11.847	117	181199	30.000	ug/l	-0.02
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	98726	33.313	ug/l	-0.02
Spiked Amount	30.000	Range	91 - 110	Recovery	=	111.033%#
60) 4-Bromofluorobenzene	12.829	95	78738	28.160	ug/l	-0.02
Spiked Amount	30.000	Range	63 - 112	Recovery	=	93.867%
63) Toluene-d8	10.547	98	248566	30.552	ug/l	-0.02
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.833%
Target Compounds						
					Qvalue	
3) Chloromethane	2.383	50	1079	0.446	ug/l #	42
13) Acrolein	4.189	56	225	0.392	ug/l #	71
16) Carbon Disulfide	4.701	76	1959	0.281	ug/l #	75
25) Chloroform	7.947	83	10215	2.140	ug/l	95
36) 1,2-Dichloroethane	9.089	62	7848	2.397	ug/l #	75
38) Methylcyclohexane	9.859	83	830	0.226	ug/l #	16
44) Isopropyl Acetate	8.677	43	7266	1.145	ug/l #	80
62) Toluene	10.606	91	7880	0.770	ug/l	95
77) t-1,4-Dichloro-2-butene	12.829	75	44443	31.649	ug/l #	13
91) Naphthalene	15.618	128	3174	0.317	ug/l #	82

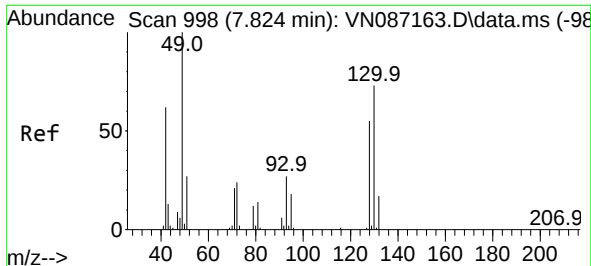
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
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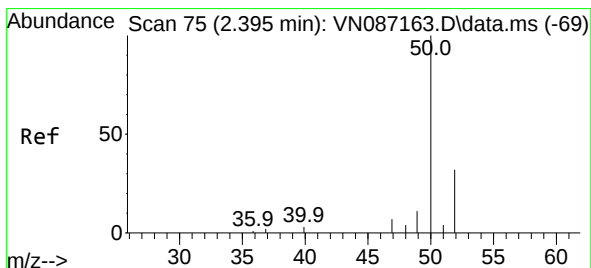
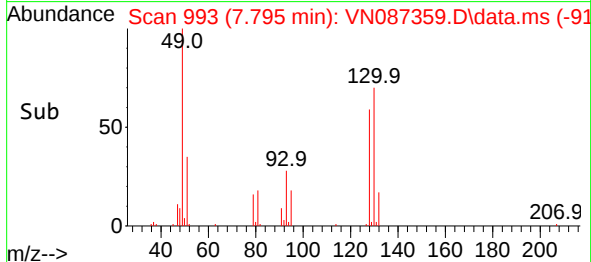
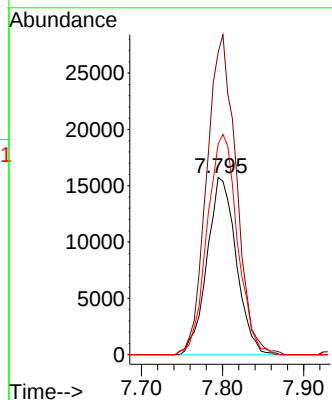
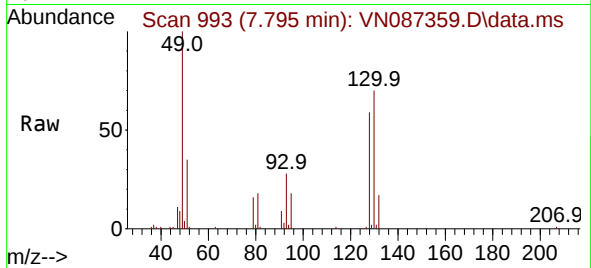




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. -0.029 min
Lab File: VN087359.D
Acq: 18 Jul 2025 12:34

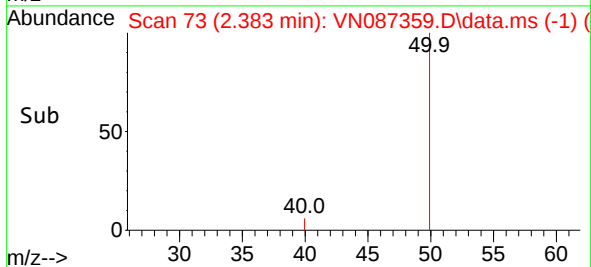
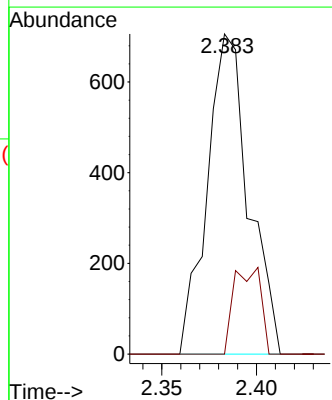
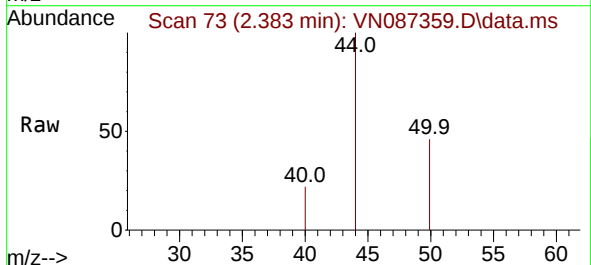
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

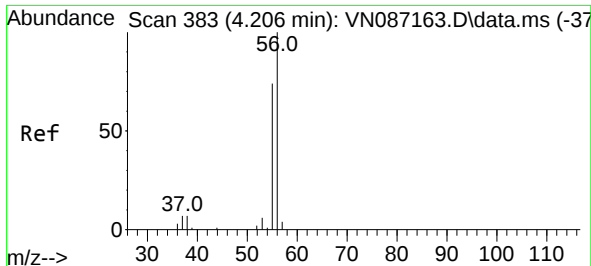
Tgt Ion:128 Resp: 39334
Ion Ratio Lower Upper
128 100
49 182.0 0.0 450.5
130 129.2 0.0 320.7



#3
Chloromethane
Concen: 0.446 ug/l
RT: 2.383 min Scan# 73
Delta R.T. -0.012 min
Lab File: VN087359.D
Acq: 18 Jul 2025 12:34

Tgt Ion: 50 Resp: 1079
Ion Ratio Lower Upper
50 100
52 0.0 25.9 38.9#





#13

Acrolein

Concen: 0.392 ug/l

RT: 4.189 min Scan# 31

Delta R.T. -0.017 min

Lab File: VN087359.D

Acq: 18 Jul 2025 12:34

Instrument :

MSVOA_N

ClientSampleId :

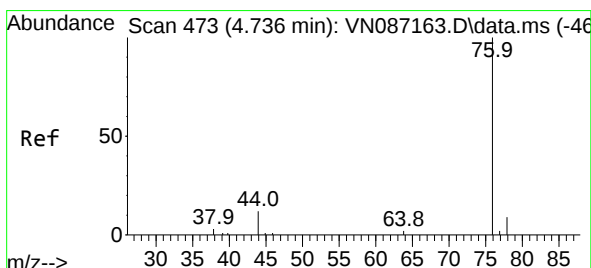
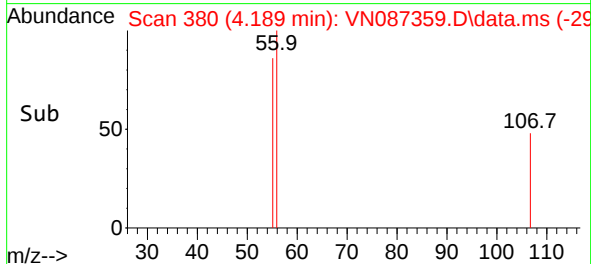
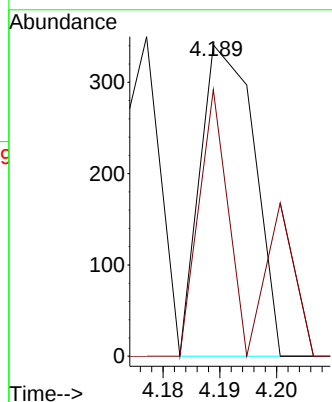
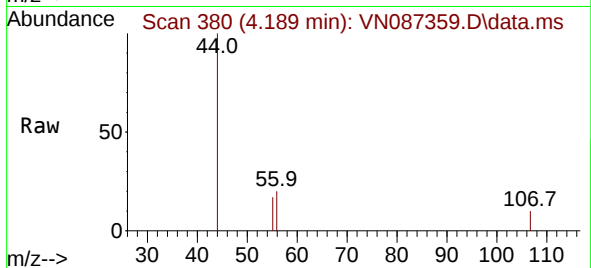
EFF-WW

Tgt Ion: 56 Resp: 225

Ion Ratio Lower Upper

56 100

55 45.8 55.7 83.5#



#16

Carbon Disulfide

Concen: 0.281 ug/l

RT: 4.701 min Scan# 467

Delta R.T. -0.035 min

Lab File: VN087359.D

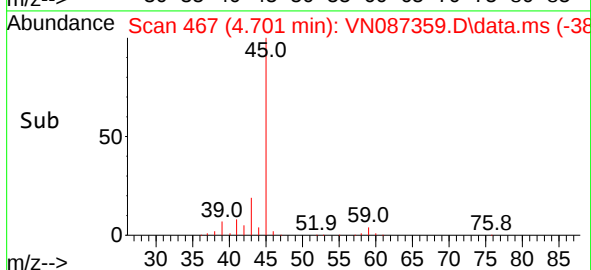
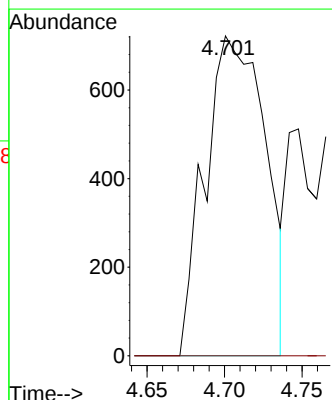
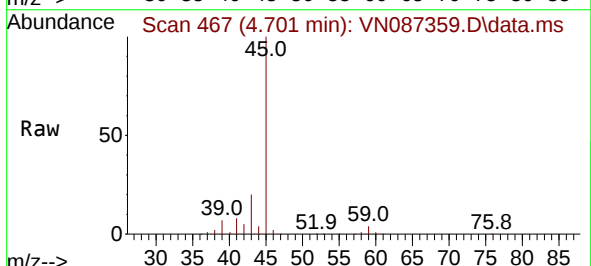
Acq: 18 Jul 2025 12:34

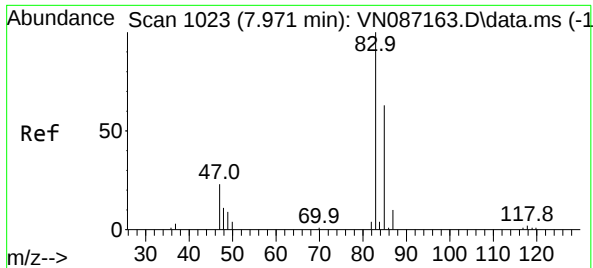
Tgt Ion: 76 Resp: 1959

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#

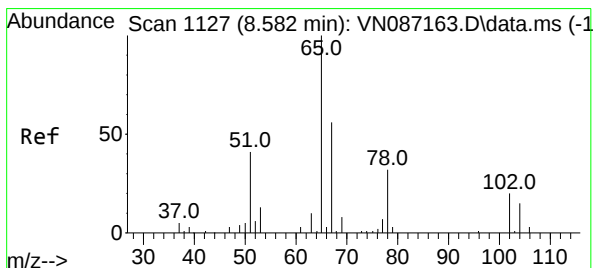
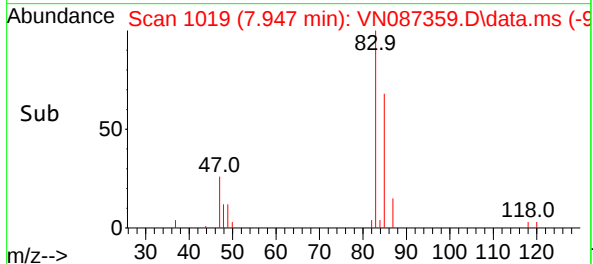
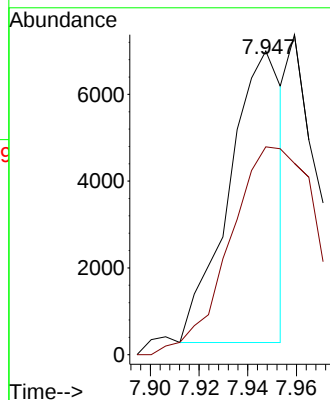
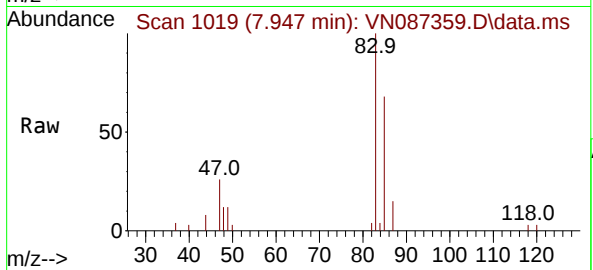




#25
Chloroform
Concen: 2.140 ug/l
RT: 7.947 min Scan# 1021
Delta R.T. -0.023 min
Lab File: VN087359.D
Acq: 18 Jul 2025 12:34

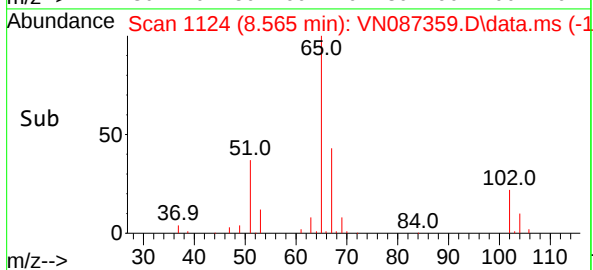
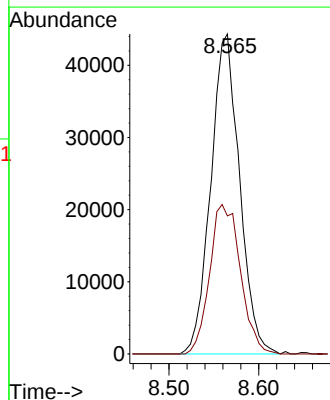
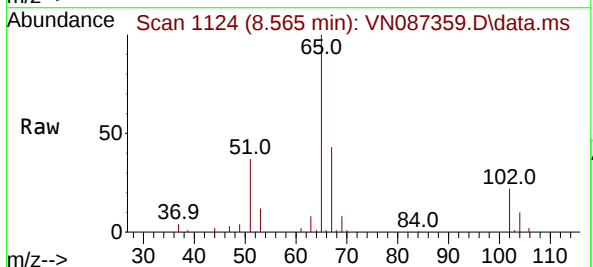
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

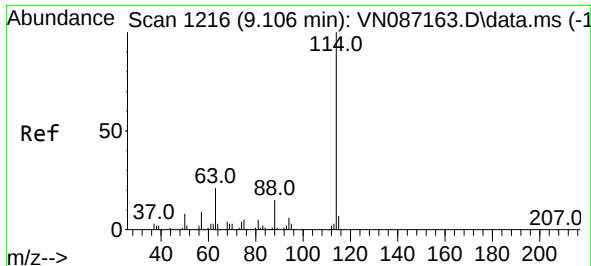
Tgt Ion: 83 Resp: 10215
Ion Ratio Lower Upper
83 100
85 67.1 50.7 76.1



#27
1,2-Dichloroethane-d4
Concen: 33.313 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. -0.017 min
Lab File: VN087359.D
Acq: 18 Jul 2025 12:34

Tgt Ion: 65 Resp: 98726
Ion Ratio Lower Upper
65 100
67 49.9 41.9 62.9





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.083 min Scan# 11

Delta R.T. -0.023 min

Lab File: VN087359.D

Acq: 18 Jul 2025 12:34

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW

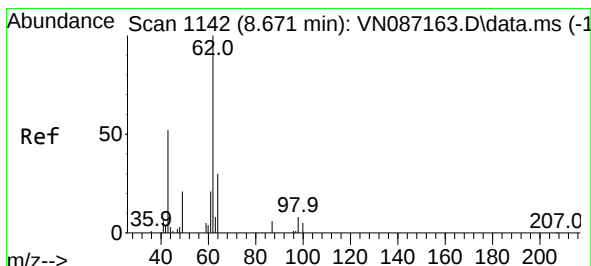
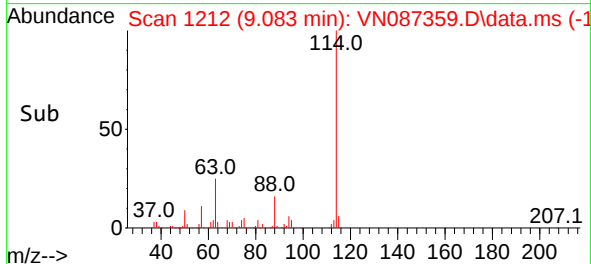
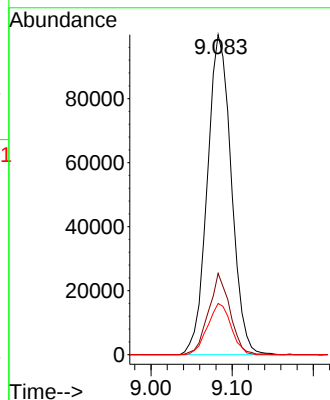
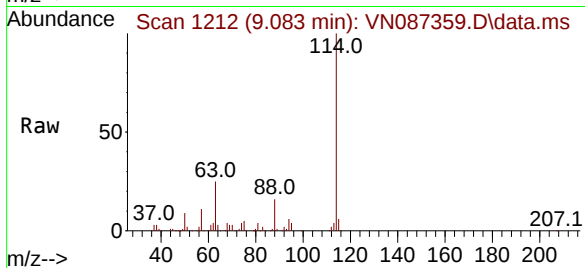
Tgt Ion:114 Resp: 205259

Ion Ratio Lower Upper

114 100

63 22.7 17.0 25.4

88 15.7 12.6 19.0



#36

1,2-Dichloroethane

Concen: 2.397 ug/l

RT: 9.089 min Scan# 1213

Delta R.T. 0.418 min

Lab File: VN087359.D

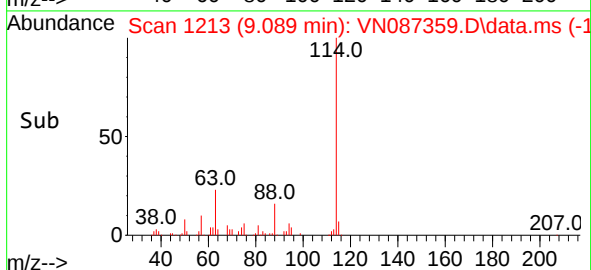
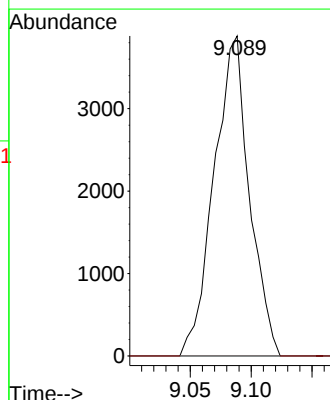
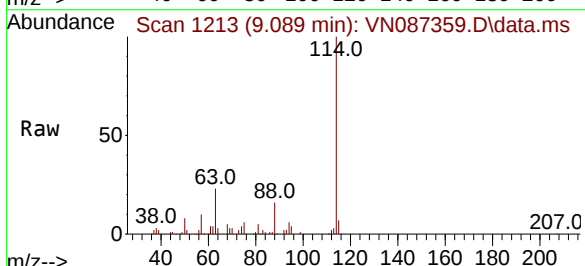
Acq: 18 Jul 2025 12:34

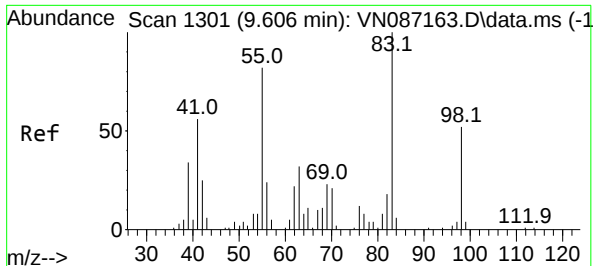
Tgt Ion: 62 Resp: 7848

Ion Ratio Lower Upper

62 100

98 0.0 7.2 10.8#





#38

Methylcyclohexane

Concen: 0.226 ug/l

RT: 9.859 min Scan# 1144

Delta R.T. 0.253 min

Lab File: VN087359.D

Acq: 18 Jul 2025 12:34

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW

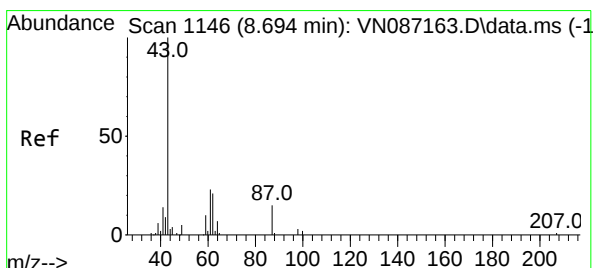
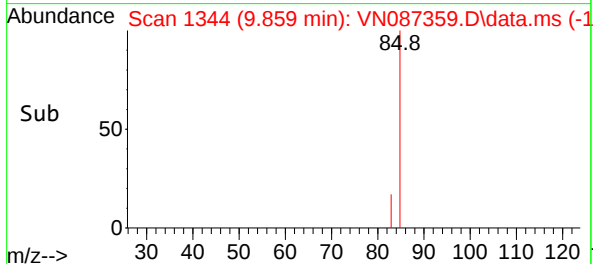
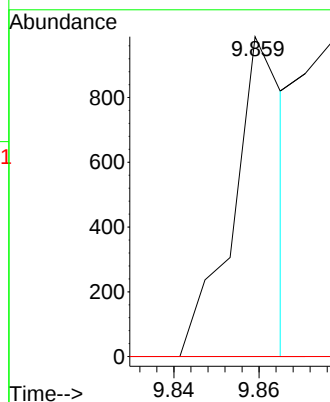
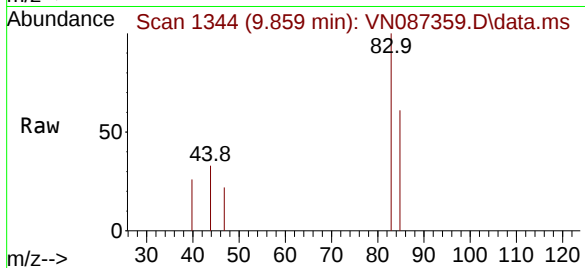
Tgt Ion: 83 Resp: 830

Ion Ratio Lower Upper

83 100

55 0.0 40.1 120.2#

98 0.0 24.4 73.2#



#44

Isopropyl Acetate

Concen: 1.145 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. -0.017 min

Lab File: VN087359.D

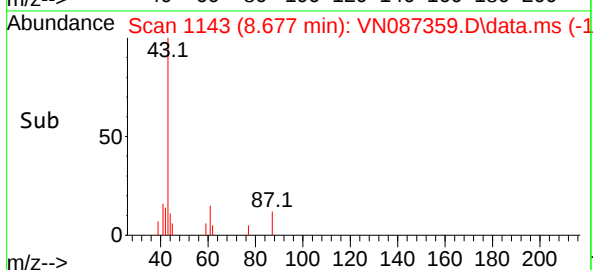
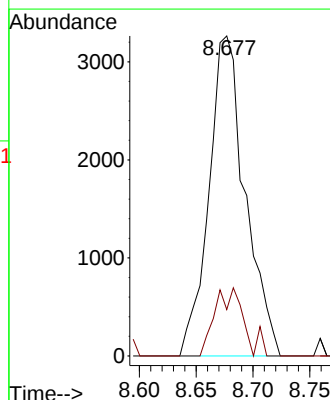
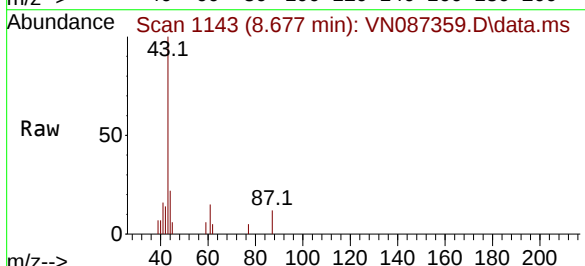
Acq: 18 Jul 2025 12:34

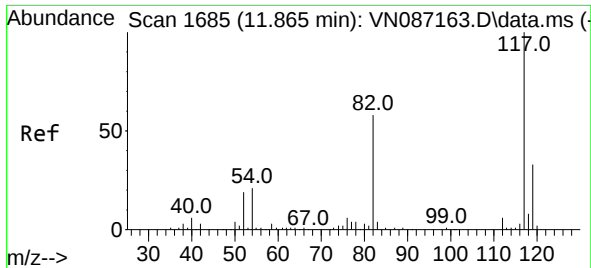
Tgt Ion: 43 Resp: 7266

Ion Ratio Lower Upper

43 100

61 15.6 20.5 30.7#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.847 min Scan# 1

Delta R.T. -0.017 min

Lab File: VN087359.D

Acq: 18 Jul 2025 12:34

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW

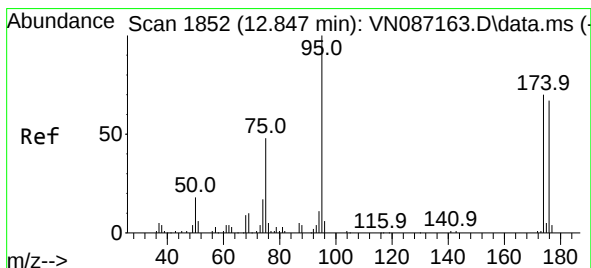
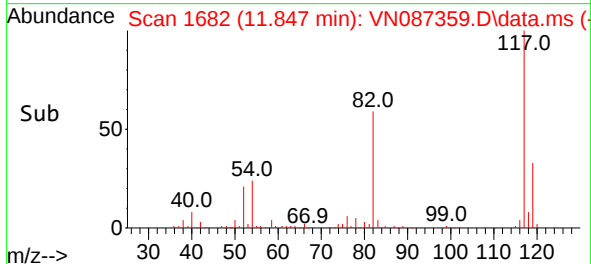
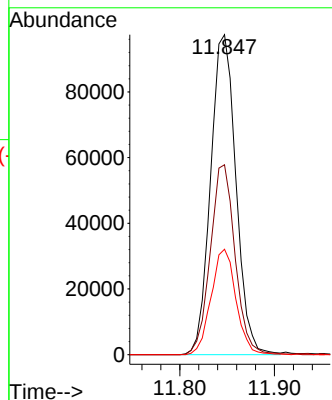
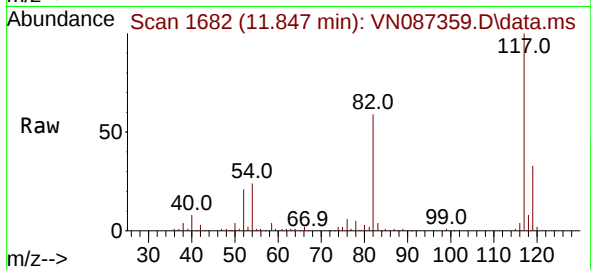
Tgt Ion:117 Resp: 181199

Ion Ratio Lower Upper

117 100

82 58.1 45.4 68.2

119 32.3 26.2 39.4



#60

4-Bromofluorobenzene

Concen: 28.160 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.017 min

Lab File: VN087359.D

Acq: 18 Jul 2025 12:34

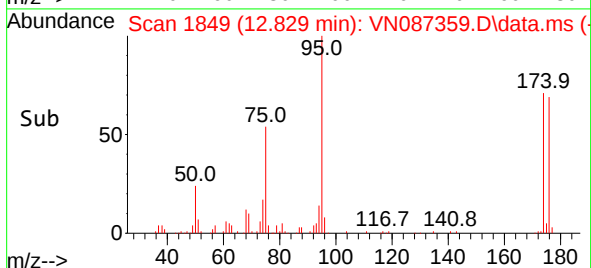
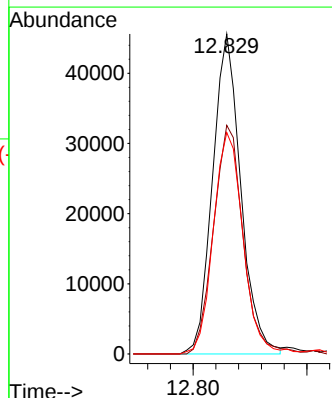
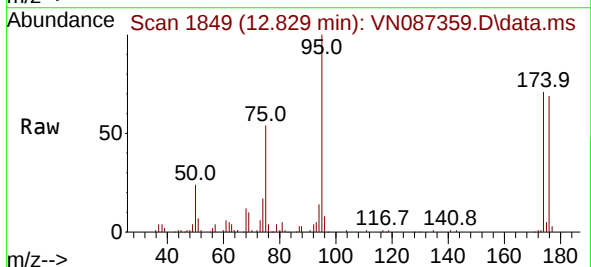
Tgt Ion: 95 Resp: 78738

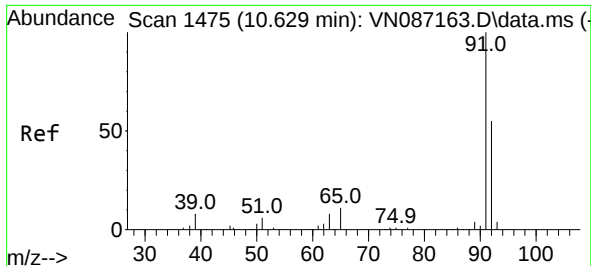
Ion Ratio Lower Upper

95 100

174 74.7 54.5 81.7

176 72.3 51.9 77.9

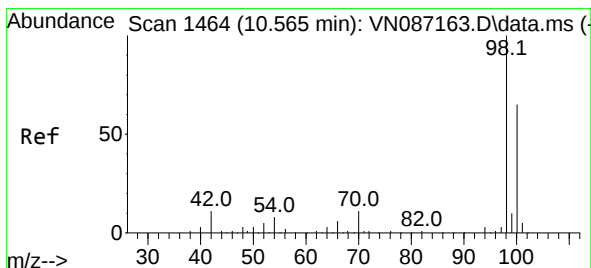
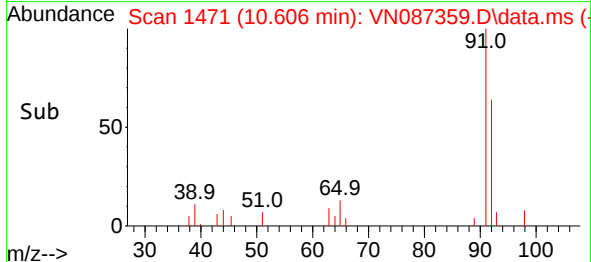
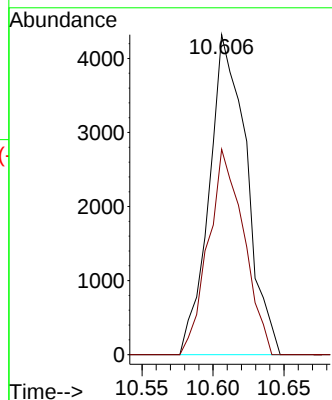
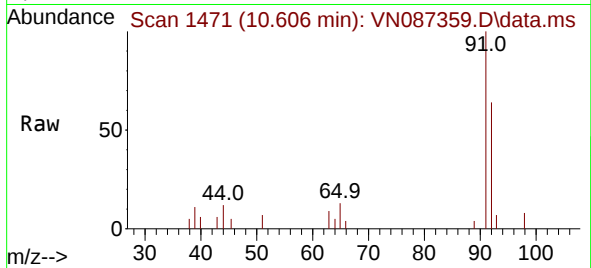




#62
Toluene
Concen: 0.770 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.023 min
Lab File: VN087359.D
Acq: 18 Jul 2025 12:34

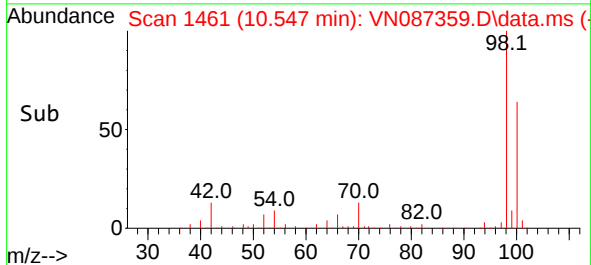
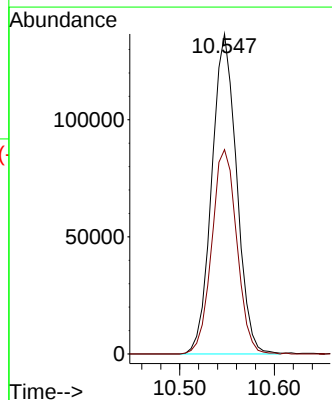
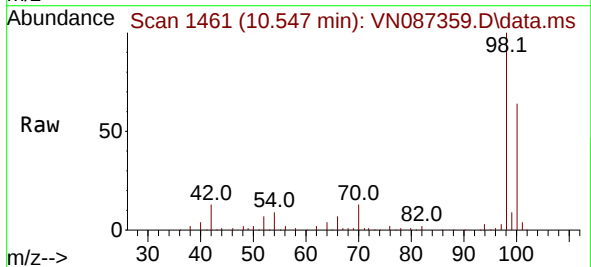
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

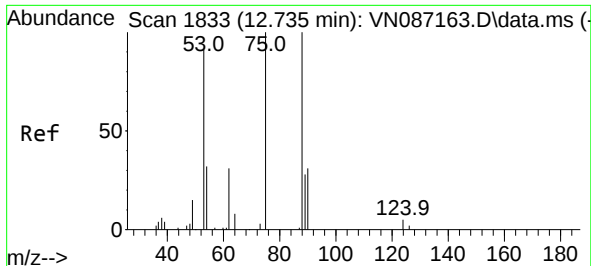
Tgt Ion: 91 Resp: 7880
Ion Ratio Lower Upper
91 100
92 61.1 45.8 68.8



#63
Toluene-d8
Concen: 30.552 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.017 min
Lab File: VN087359.D
Acq: 18 Jul 2025 12:34

Tgt Ion: 98 Resp: 248566
Ion Ratio Lower Upper
98 100
100 64.5 52.5 78.7

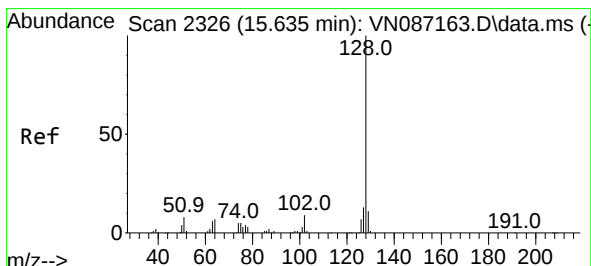
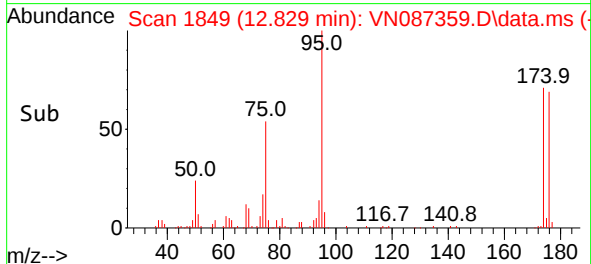
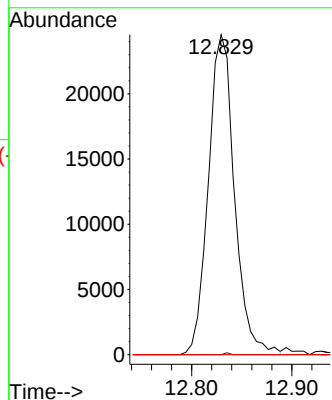
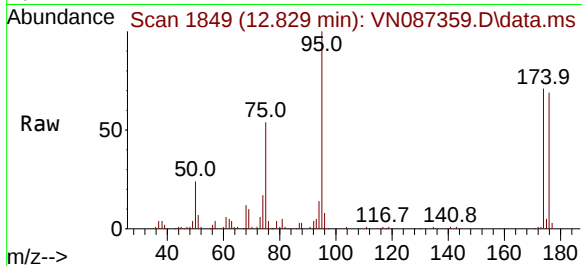




#77
t-1,4-Dichloro-2-butene
Concen: 31.649 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.094 min
Lab File: VN087359.D
Acq: 18 Jul 2025 12:34

Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

Tgt Ion: 75 Resp: 44443
Ion Ratio Lower Upper
75 100
53 0.0 45.9 137.6#
89 0.0 22.3 66.9#



#91
Naphthalene
Concen: 0.317 ug/l
RT: 15.618 min Scan# 2323
Delta R.T. -0.017 min
Lab File: VN087359.D
Acq: 18 Jul 2025 12:34

Tgt Ion:128 Resp: 3174
Ion Ratio Lower Upper
128 100
127 9.8 10.6 15.8#
129 0.0 8.8 13.2#

