

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071825\
 Data File : VN087364.D
 Acq On : 18 Jul 2025 14:20
 Operator : JC\MD
 Sample : Q2585-01 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WW

Quant Time: Jul 18 23:20:31 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)

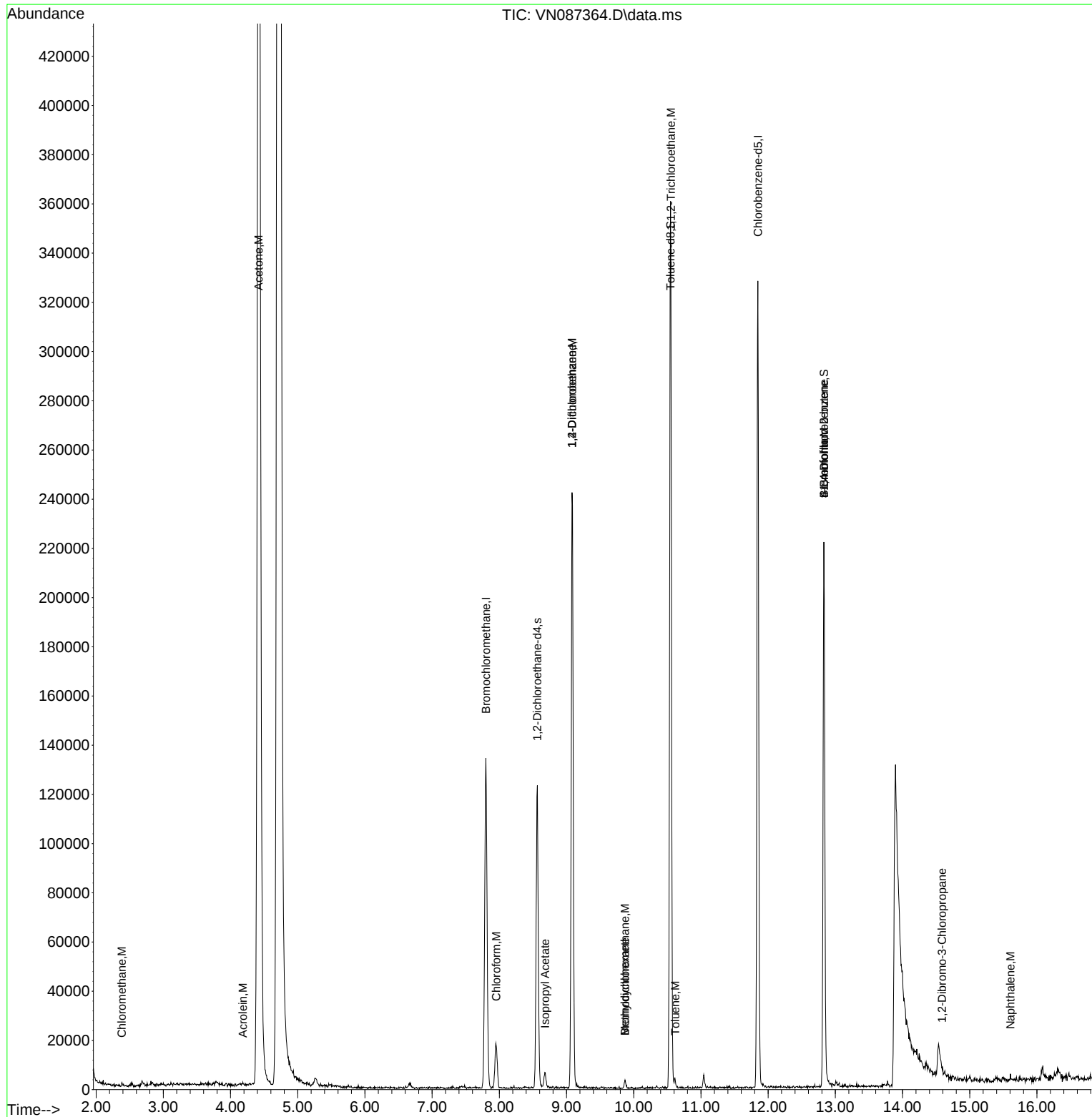
Internal Standards						
1) Bromochloromethane	7.800	128	44521	30.000	ug/l	-0.02
28) 1,4-Difluorobenzene	9.083	114	204474	30.000	ug/l	-0.02
57) Chlorobenzene-d5	11.847	117	181978	30.000	ug/l	-0.02
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	99871	29.773	ug/l	-0.02
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.233%
60) 4-Bromofluorobenzene	12.829	95	79001	28.133	ug/l	-0.02
Spiked Amount	30.000	Range	63 - 112	Recovery	=	93.767%
63) Toluene-d8	10.547	98	243478	29.799	ug/l	-0.02
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.333%
Target Compounds						
					Qvalue	
3) Chloromethane	2.383	50	878	0.321	ug/l #	83
13) Acrolein	4.183	56	314	0.483	ug/l #	48
15) Acetone	4.418	58	392926	682.664	ug/l	70
25) Chloroform	7.953	83	18139	3.357	ug/l	86
36) 1,2-Dichloroethane	9.083	62	8172	2.505	ug/l #	75
38) Methylcyclohexane	9.871	83	2409	0.659	ug/l #	16
41) Bromodichloromethane	9.871	83	2409	0.693	ug/l #	79
44) Isopropyl Acetate	8.683	43	6950	1.099	ug/l	92
50) 1,1,2-Trichloroethane	10.553	97	7742	3.163	ug/l #	1
56) Bromoform	12.829	173	789	0.447	ug/l #	1
62) Toluene	10.618	91	2404	0.234	ug/l #	60
77) t-1,4-Dichloro-2-butene	12.829	75	44178	31.325	ug/l #	13
88) 1,2-Dibromo-3-Chloropr...	14.588	75	255	0.307	ug/l #	6
91) Naphthalene	15.606	128	2178	0.217	ug/l #	69

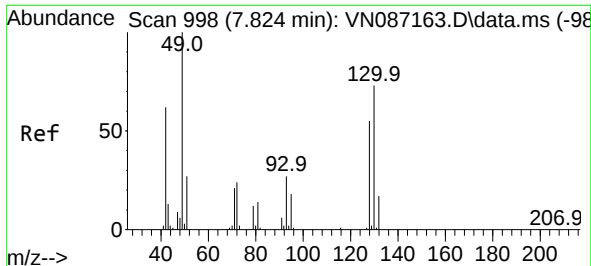
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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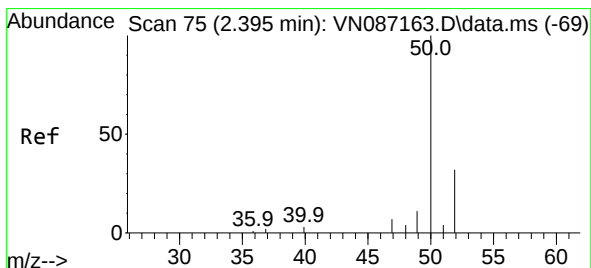
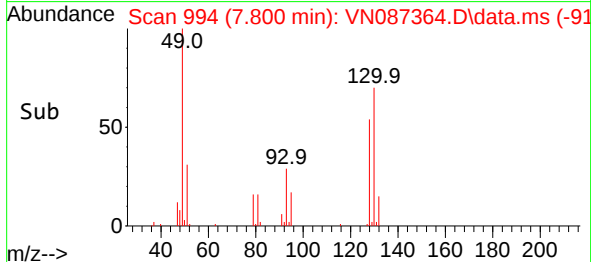
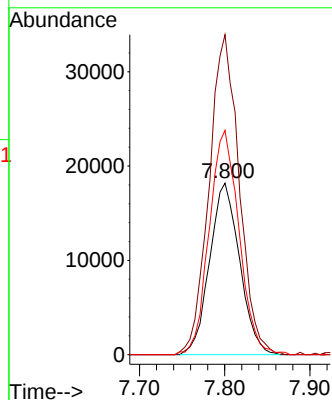
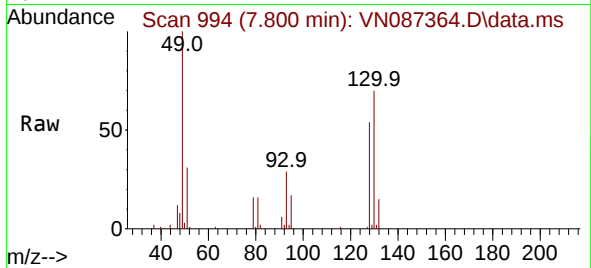




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 91
Delta R.T. -0.024 min
Lab File: VN087364.D
Acq: 18 Jul 2025 14:20

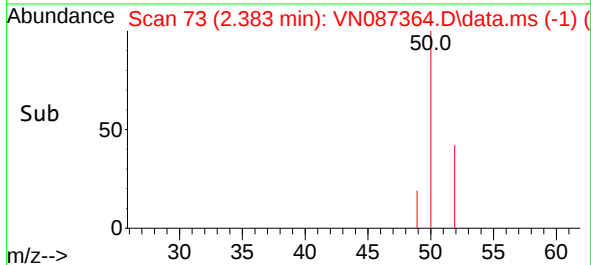
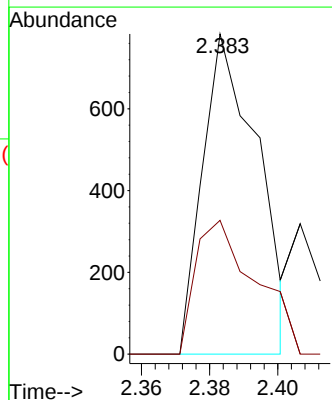
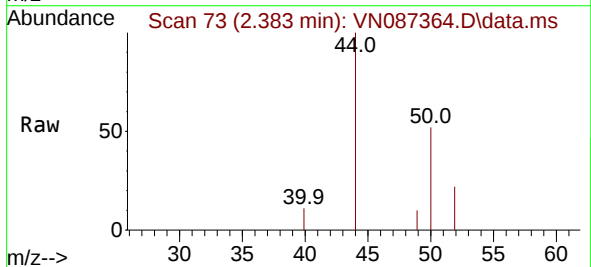
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

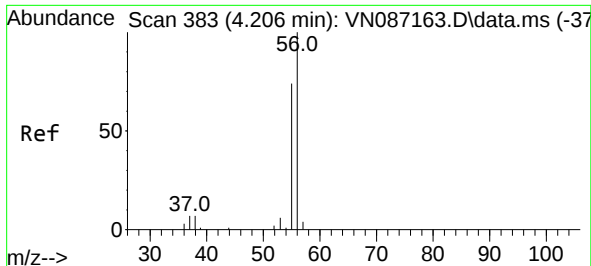
Tgt Ion:128 Resp: 44521
Ion Ratio Lower Upper
128 100
49 187.0 0.0 450.5
130 129.8 0.0 320.7



#3
Chloromethane
Concen: 0.321 ug/l
RT: 2.383 min Scan# 73
Delta R.T. -0.012 min
Lab File: VN087364.D
Acq: 18 Jul 2025 14:20

Tgt Ion: 50 Resp: 878
Ion Ratio Lower Upper
50 100
52 41.8 25.9 38.9#





#13

Acrolein

Concen: 0.483 ug/l

RT: 4.183 min Scan# 31

Delta R.T. -0.023 min

Lab File: VN087364.D

Acq: 18 Jul 2025 14:20

Instrument :

MSVOA_N

ClientSampleId :

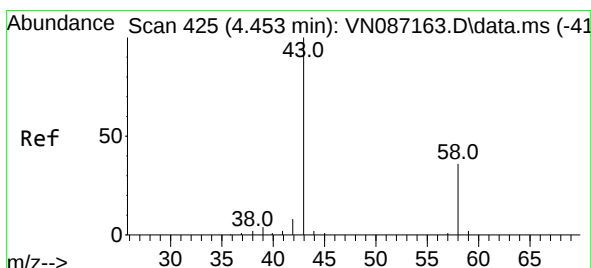
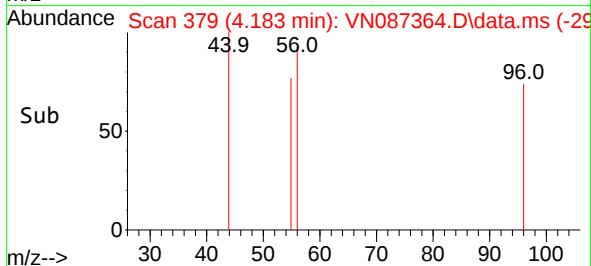
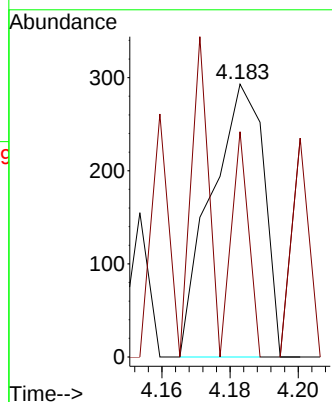
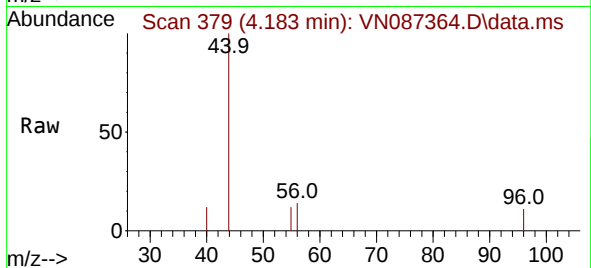
EFF-WW

Tgt Ion: 56 Resp: 314

Ion Ratio Lower Upper

56 100

55 27.1 55.7 83.5#



#15

Acetone

Concen: 682.664 ug/l

RT: 4.418 min Scan# 419

Delta R.T. -0.035 min

Lab File: VN087364.D

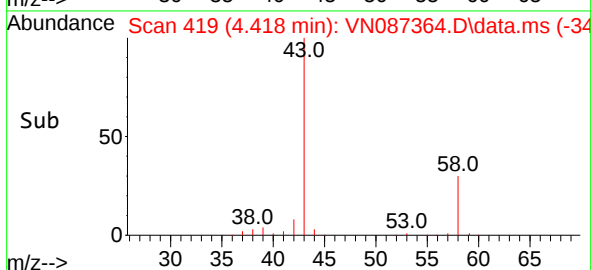
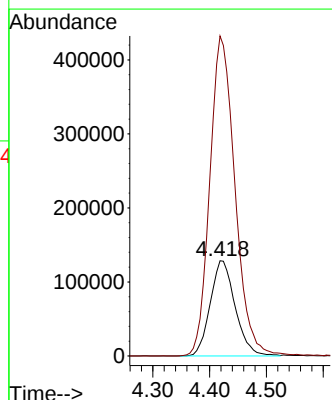
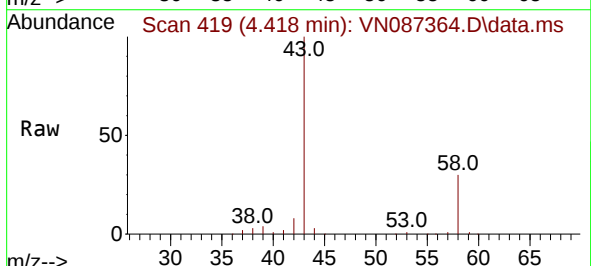
Acq: 18 Jul 2025 14:20

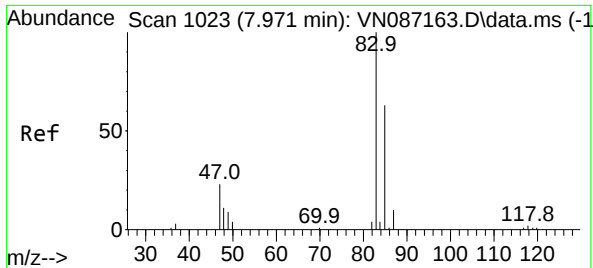
Tgt Ion: 58 Resp: 392926

Ion Ratio Lower Upper

58 100

43 335.8 224.3 336.5

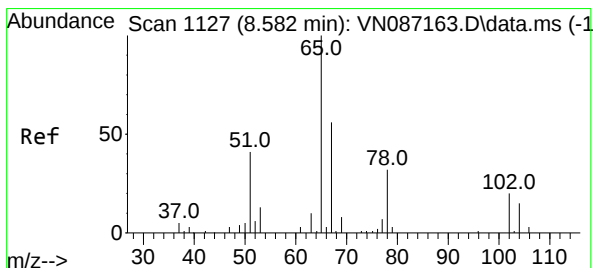
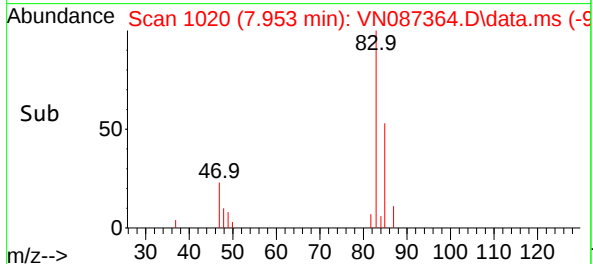
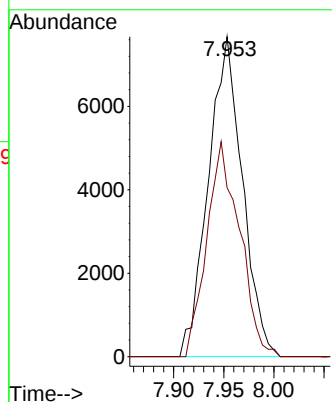
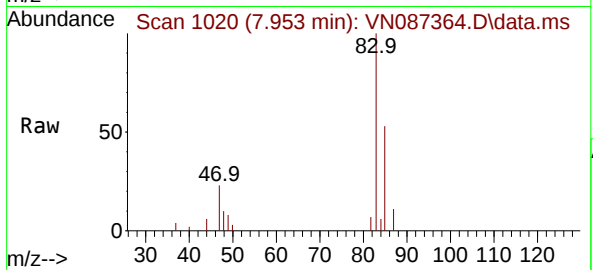




#25
Chloroform
Concen: 3.357 ug/l
RT: 7.953 min Scan# 1020
Delta R.T. -0.018 min
Lab File: VN087364.D
Acq: 18 Jul 2025 14:20

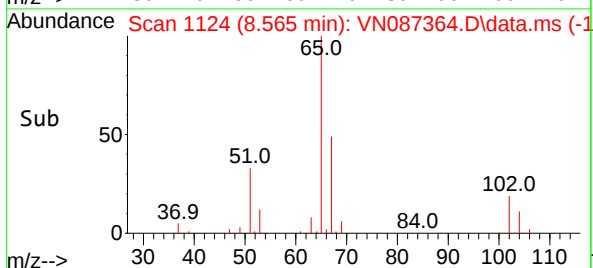
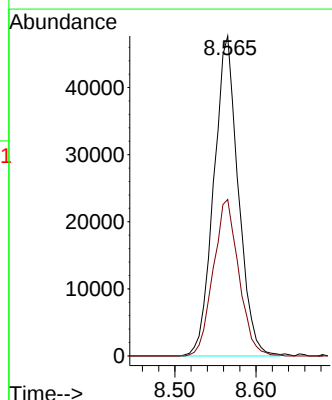
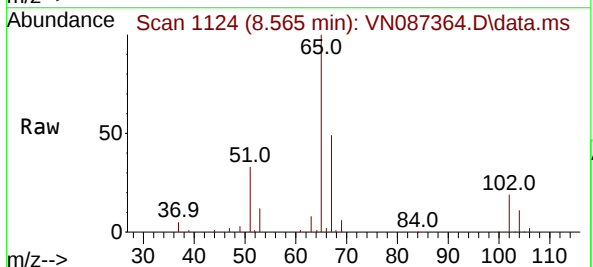
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

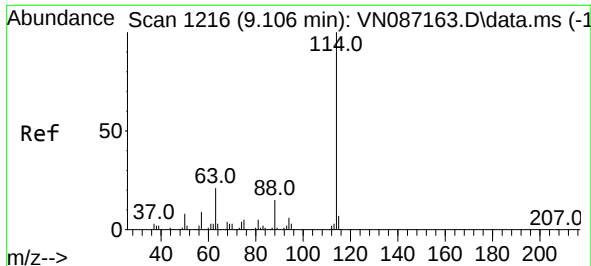
Tgt Ion: 83 Resp: 18139
Ion Ratio Lower Upper
83 100
85 52.8 50.7 76.1



#27
1,2-Dichloroethane-d4
Concen: 29.773 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. -0.018 min
Lab File: VN087364.D
Acq: 18 Jul 2025 14:20

Tgt Ion: 65 Resp: 99871
Ion Ratio Lower Upper
65 100
67 51.0 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: VN087364.D

Acq: 18 Jul 2025 14:20

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW

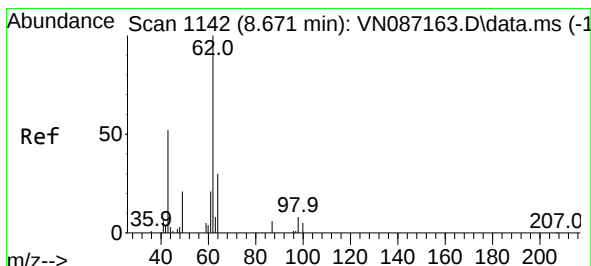
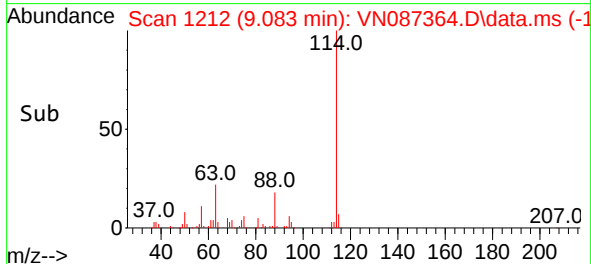
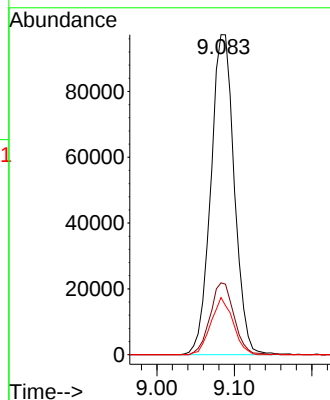
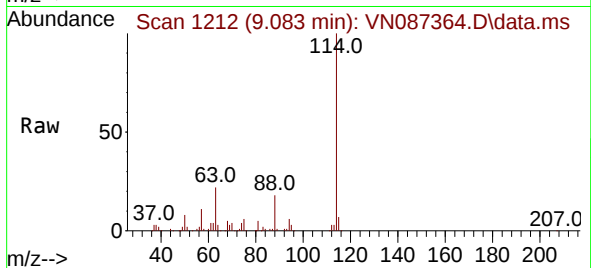
Tgt Ion:114 Resp: 204474

Ion Ratio Lower Upper

114 100

63 22.7 17.0 25.4

88 16.8 12.6 19.0



#36

1,2-Dichloroethane

Concen: 2.505 ug/l

RT: 9.083 min Scan# 1212

Delta R.T. 0.412 min

Lab File: VN087364.D

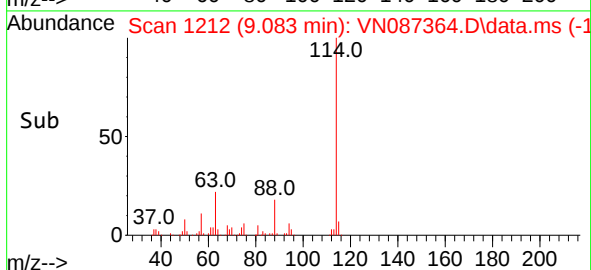
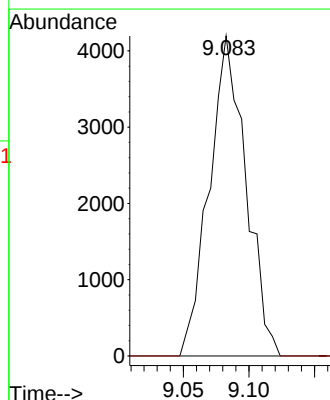
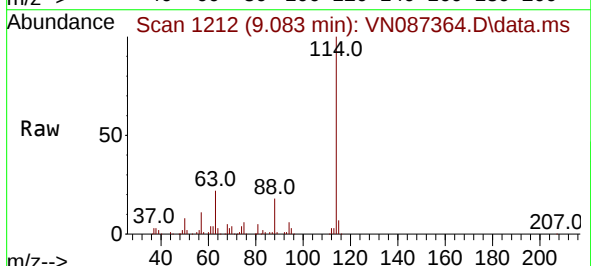
Acq: 18 Jul 2025 14:20

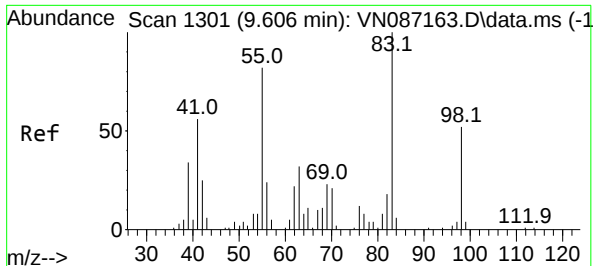
Tgt Ion: 62 Resp: 8172

Ion Ratio Lower Upper

62 100

98 0.0 7.2 10.8#





#38

Methylcyclohexane

Concen: 0.659 ug/l

RT: 9.871 min Scan# 1346

Delta R.T. 0.265 min

Lab File: VN087364.D

Acq: 18 Jul 2025 14:20

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW

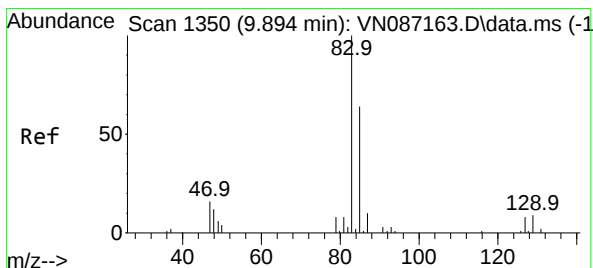
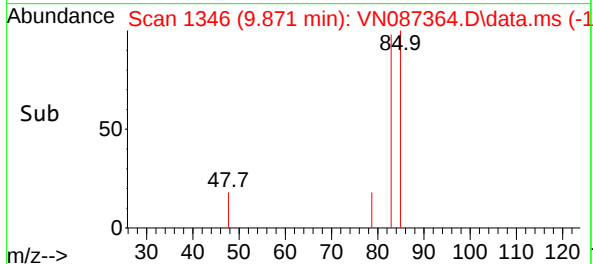
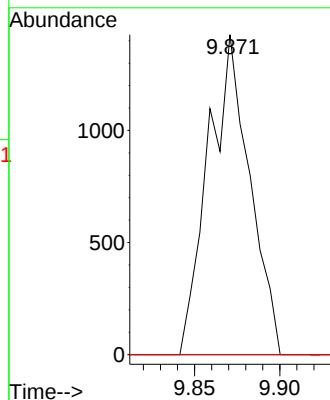
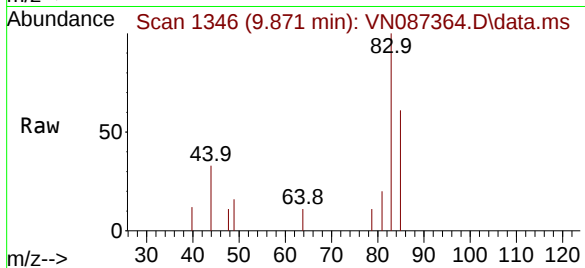
Tgt Ion: 83 Resp: 2409

Ion Ratio Lower Upper

83 100

55 0.0 40.1 120.2#

98 0.0 24.4 73.2#



#41

Bromodichloromethane

Concen: 0.693 ug/l

RT: 9.871 min Scan# 1346

Delta R.T. -0.023 min

Lab File: VN087364.D

Acq: 18 Jul 2025 14:20

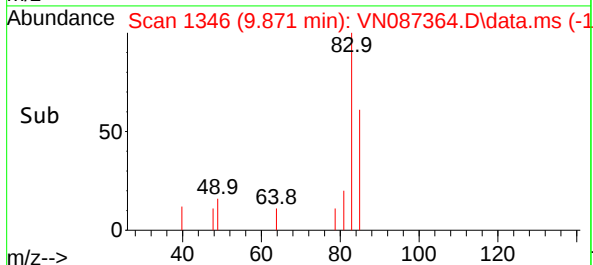
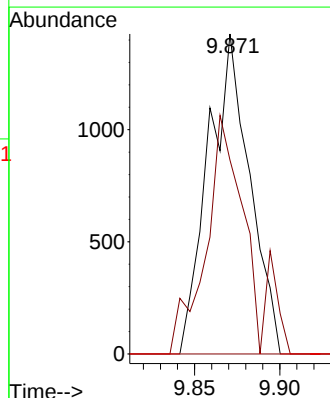
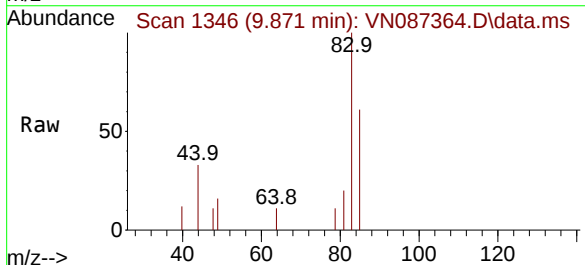
Tgt Ion: 83 Resp: 2409

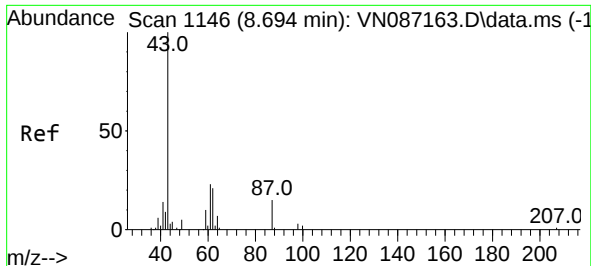
Ion Ratio Lower Upper

83 100

85 48.0 51.4 77.2#

127 0.0 6.1 9.1#

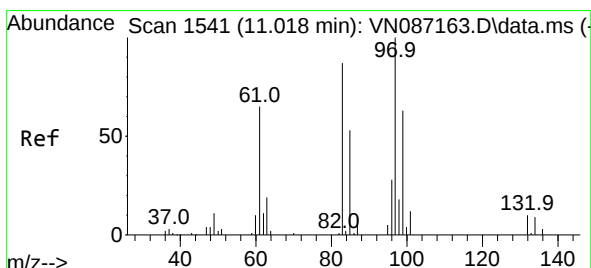
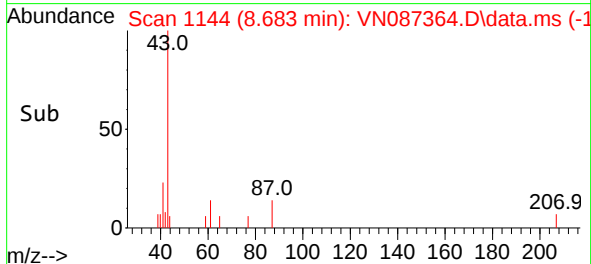
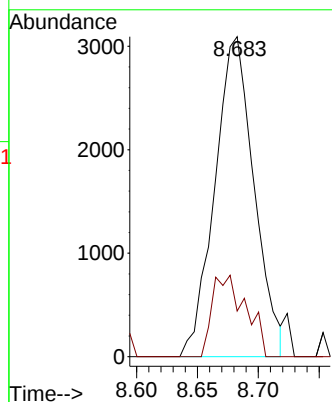
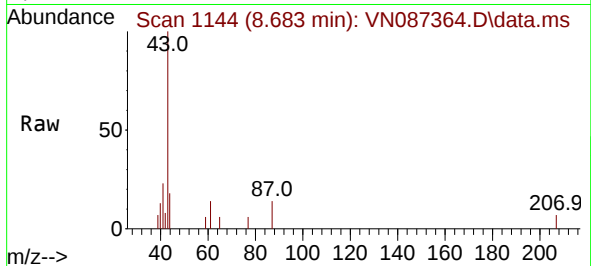




#44
Isopropyl Acetate
Concen: 1.099 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.012 min
Lab File: VN087364.D
Acq: 18 Jul 2025 14:20

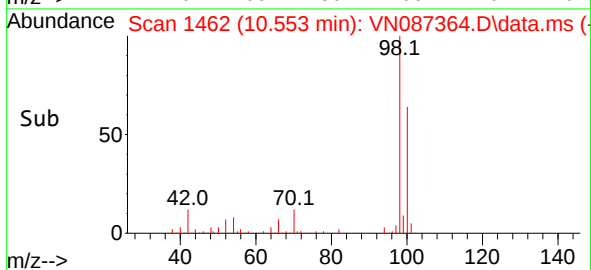
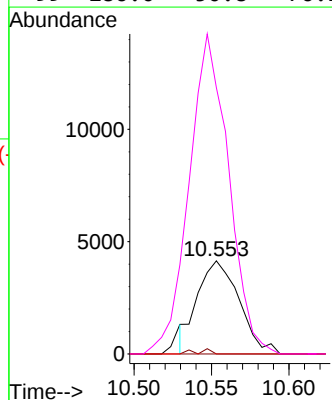
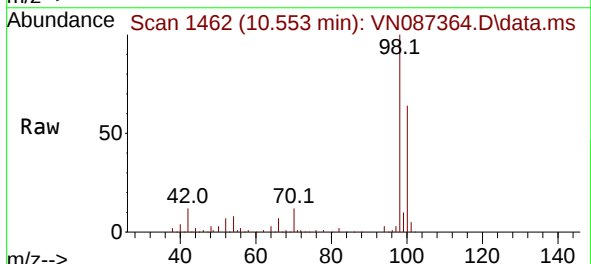
Instrument :
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ClientSampleId :
EFF-WW

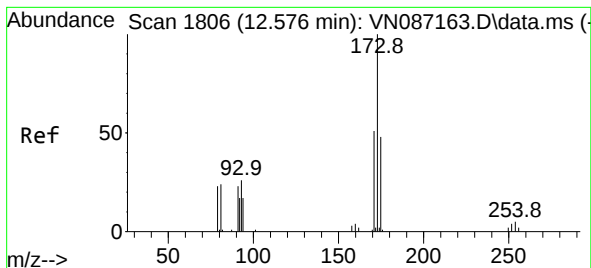
Tgt Ion: 43 Resp: 6950
Ion Ratio Lower Upper
43 100
61 21.7 20.5 30.7



#50
1,1,2-Trichloroethane
Concen: 3.163 ug/l
RT: 10.553 min Scan# 1462
Delta R.T. -0.465 min
Lab File: VN087364.D
Acq: 18 Jul 2025 14:20

Tgt Ion: 97 Resp: 7742
Ion Ratio Lower Upper
97 100
83 0.0 69.6 104.4#
85 0.0 42.0 63.0#
99 286.0 50.8 76.2#





#56

Bromoform

Concen: 0.447 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. 0.253 min

Lab File: VN087364.D

Acq: 18 Jul 2025 14:20

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW

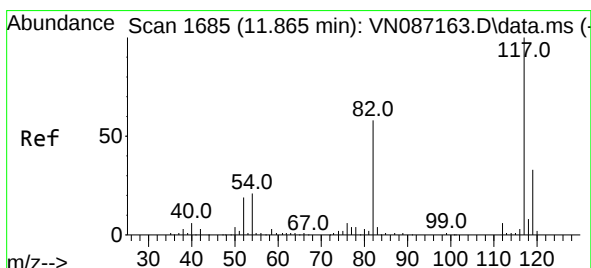
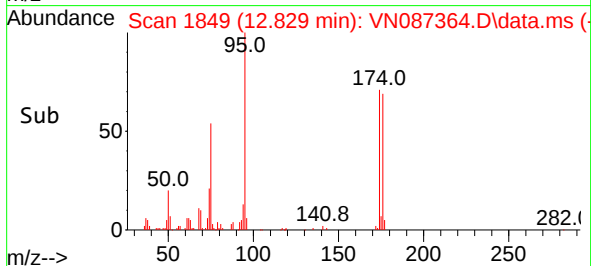
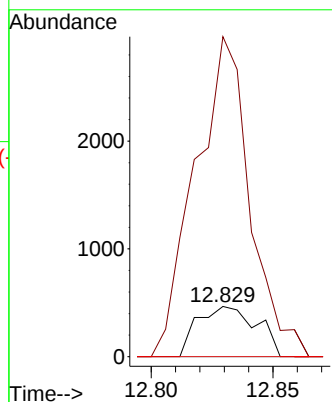
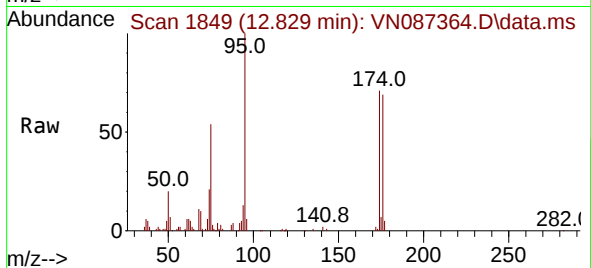
Tgt Ion:173 Resp: 789

Ion Ratio Lower Upper

173 100

175 588.2 38.7 58.1#

254 0.0 4.2 6.4#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.847 min Scan# 1682

Delta R.T. -0.018 min

Lab File: VN087364.D

Acq: 18 Jul 2025 14:20

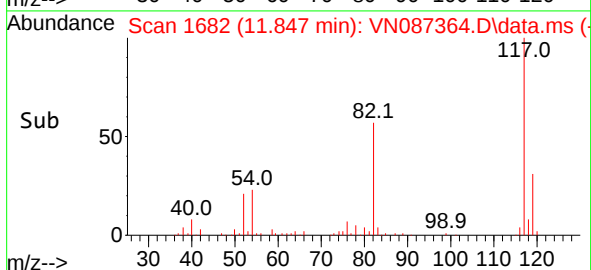
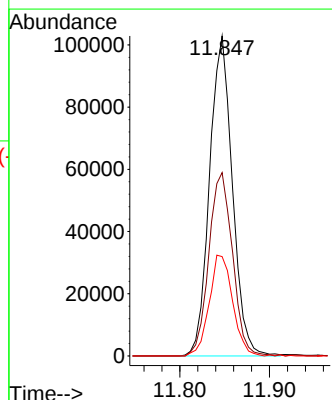
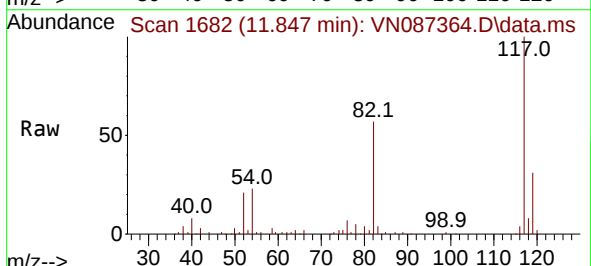
Tgt Ion:117 Resp: 181978

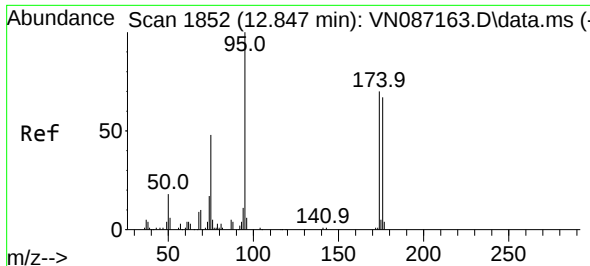
Ion Ratio Lower Upper

117 100

82 59.3 45.4 68.2

119 32.3 26.2 39.4

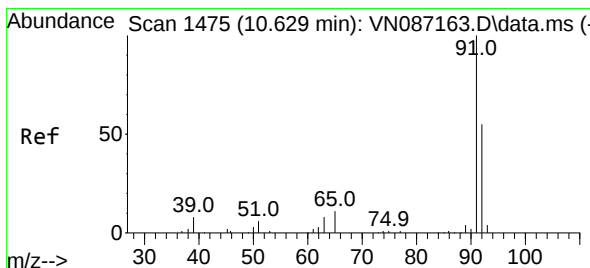
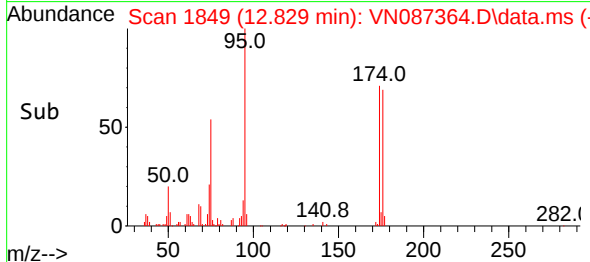
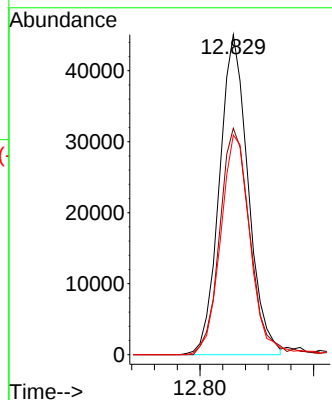
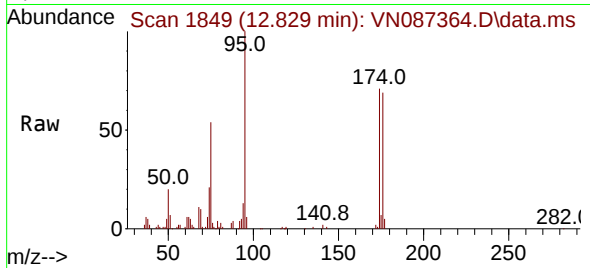




#60
4-Bromofluorobenzene
Concen: 28.133 ug/l
RT: 12.829 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN087364.D
Acq: 18 Jul 2025 14:20

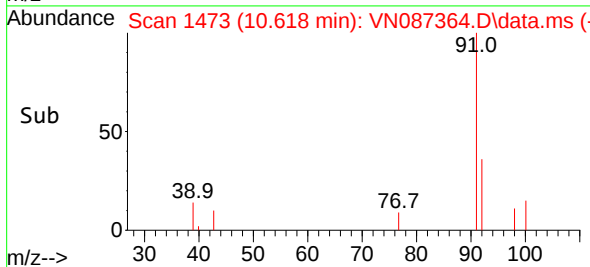
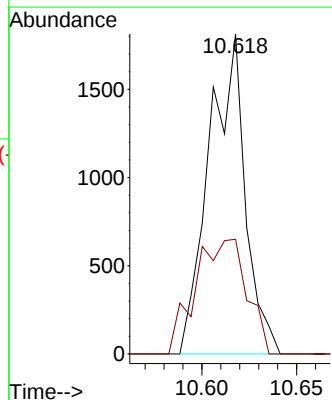
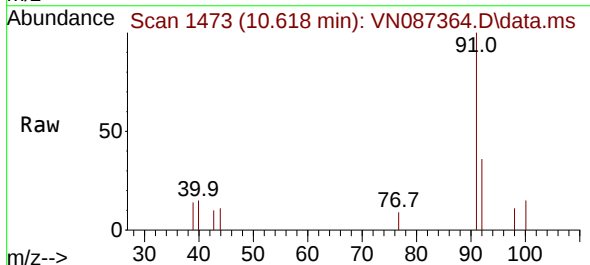
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

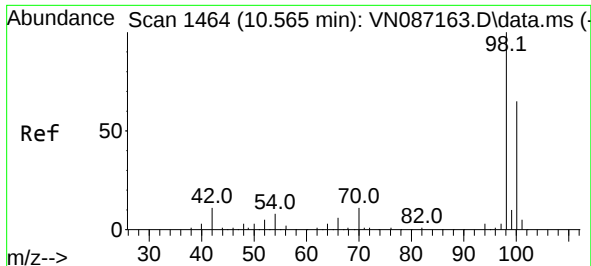
Tgt Ion: 95 Resp: 79001
Ion Ratio Lower Upper
95 100
174 73.7 54.5 81.7
176 70.7 51.9 77.9



#62
Toluene
Concen: 0.234 ug/l
RT: 10.618 min Scan# 1473
Delta R.T. -0.012 min
Lab File: VN087364.D
Acq: 18 Jul 2025 14:20

Tgt Ion: 91 Resp: 2404
Ion Ratio Lower Upper
91 100
92 27.5 45.8 68.8#

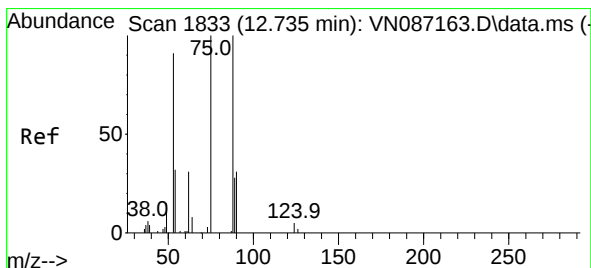
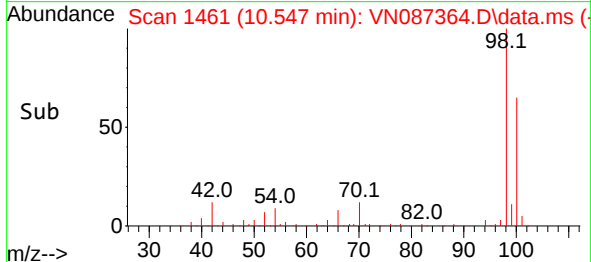
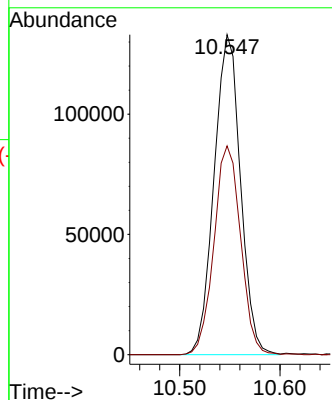
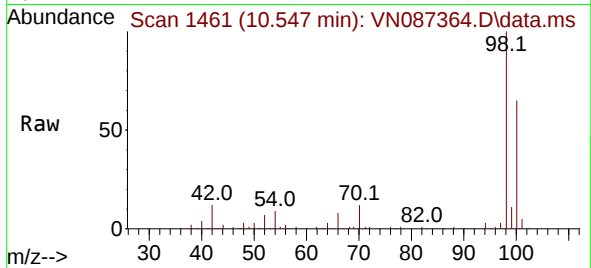




#63
Toluene-d8
Concen: 29.799 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.018 min
Lab File: VN087364.D
Acq: 18 Jul 2025 14:20

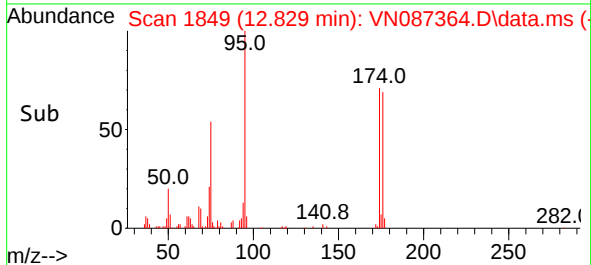
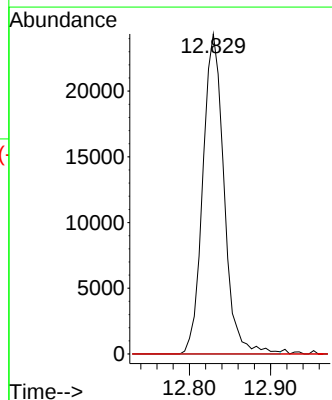
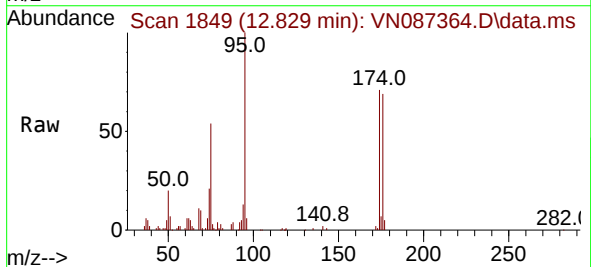
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

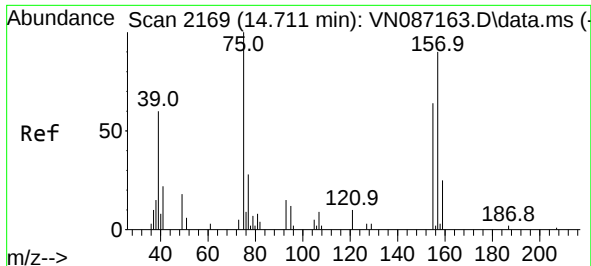
Tgt Ion: 98 Resp: 243478
Ion Ratio Lower Upper
98 100
100 65.9 52.5 78.7



#77
t-1,4-Dichloro-2-butene
Concen: 31.325 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.094 min
Lab File: VN087364.D
Acq: 18 Jul 2025 14:20

Tgt Ion: 75 Resp: 44178
Ion Ratio Lower Upper
75 100
53 0.0 45.9 137.6#
89 0.0 22.3 66.9#





#88

1,2-Dibromo-3-Chloropropane

Concen: 0.307 ug/l

RT: 14.588 min Scan# 2169

Delta R.T. -0.123 min

Lab File: VN087364.D

Acq: 18 Jul 2025 14:20

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW

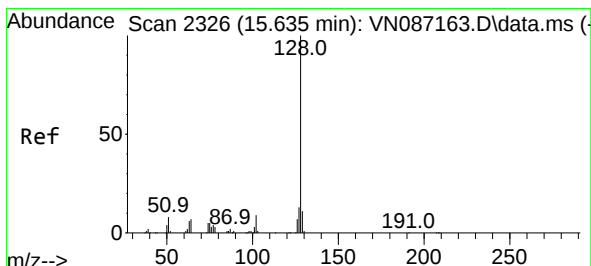
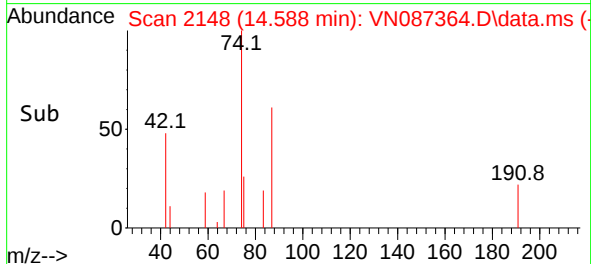
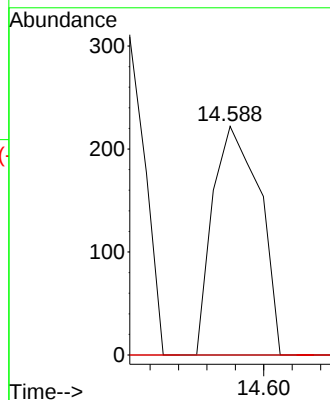
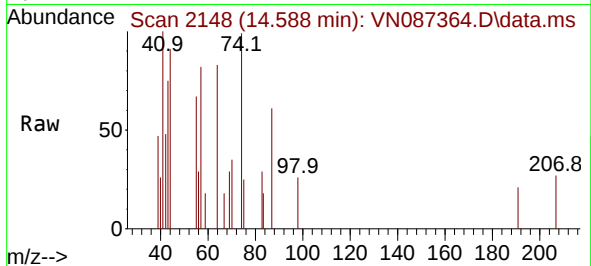
Tgt Ion: 75 Resp: 255

Ion Ratio Lower Upper

75 100

155 0.0 58.3 87.5#

157 0.0 79.2 118.8#



#91

Naphthalene

Concen: 0.217 ug/l

RT: 15.606 min Scan# 2321

Delta R.T. -0.029 min

Lab File: VN087364.D

Acq: 18 Jul 2025 14:20

Tgt Ion: 128 Resp: 2178

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 8.8 13.2#

