

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
 Data File : VN086959.D
 Acq On : 11 Jun 2025 19:10
 Operator : JC\MD
 Sample : Q2210-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TW1

Quant Time: Jun 12 01:38:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.235	168	326987	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	623551	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	567024	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	271077	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	214849	49.075	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	98.140%
35) Dibromofluoromethane	8.177	113	183940	49.777	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	99.560%
50) Toluene-d8	10.571	98	765575	52.334	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	104.660%
62) 4-Bromofluorobenzene	12.847	95	272770	50.188	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	100.380%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue

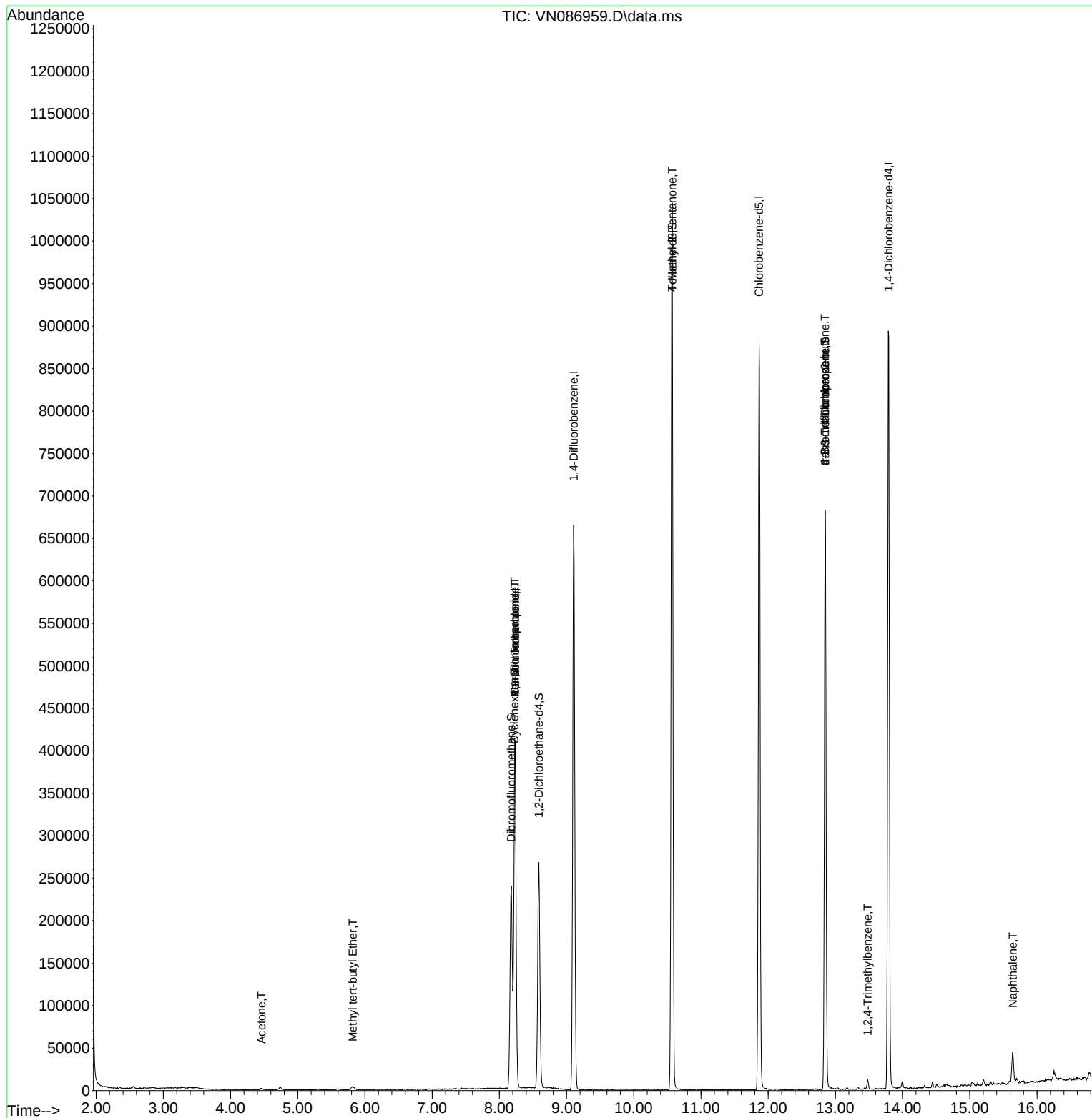
16) Acetone	4.459	43	3791	1.633	ug/l	93
19) Methyl tert-butyl Ether	5.818	73	6640	0.504	ug/l	93
31) Cyclohexane	8.224	56	5894	0.830	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	25067	4.552	ug/l #	47
38) Carbon Tetrachloride	8.230	117	31371	5.803	ug/l #	18
51) 4-Methyl-2-Pentanone	10.571	43	2540	0.375	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	126178	19.582	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	126178	45.077	ug/l #	16
84) 1,2,4-Trimethylbenzene	13.482	105	6797	0.416	ug/l	98
95) Naphthalene	15.641	128	39117	1.922	ug/l	99

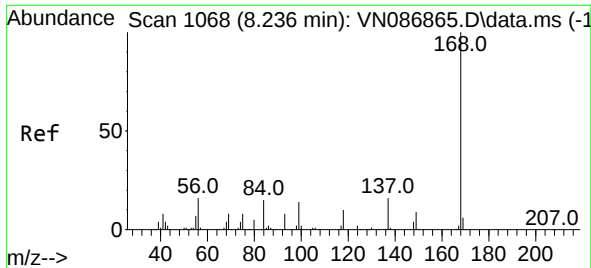
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

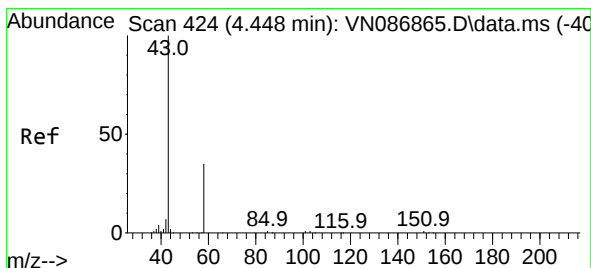
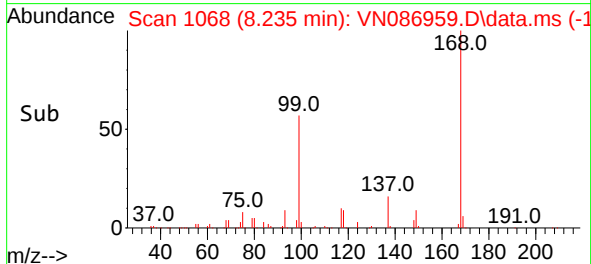
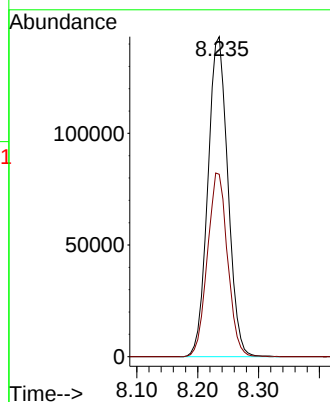
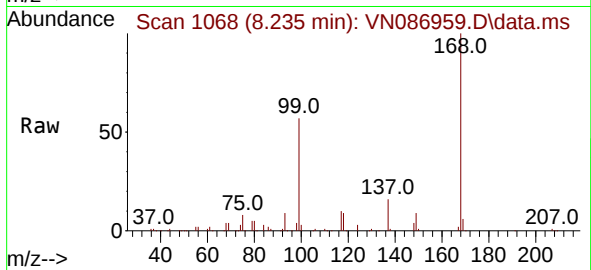




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.001 min
Lab File: VN086959.D
Acq: 11 Jun 2025 19:10

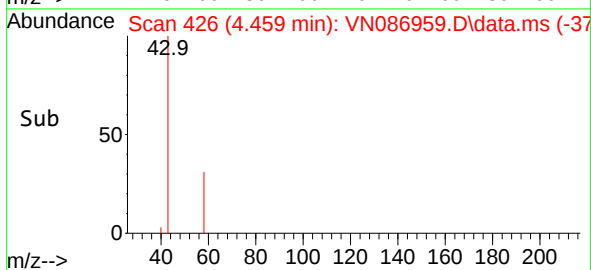
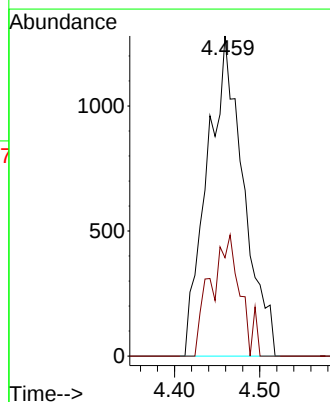
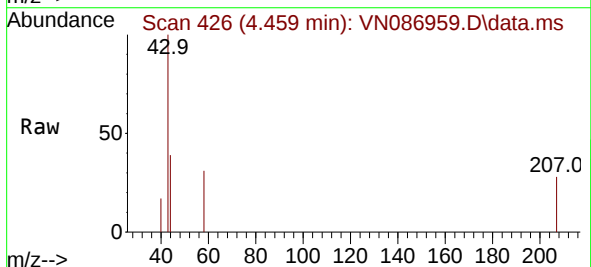
Instrument :
MSVOA_N
ClientSampleId :
TW1

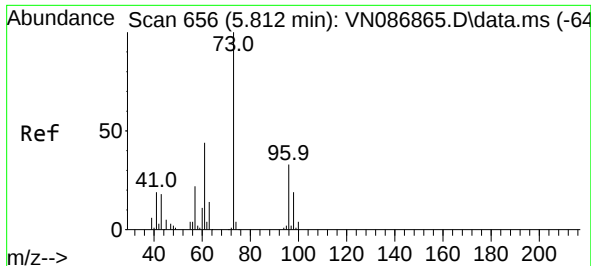
Tgt Ion:168 Resp: 326987
Ion Ratio Lower Upper
168 100
99 57.0 49.1 73.7



#16
Acetone
Concen: 1.633 ug/l
RT: 4.459 min Scan# 426
Delta R.T. 0.012 min
Lab File: VN086959.D
Acq: 11 Jun 2025 19:10

Tgt Ion: 43 Resp: 3791
Ion Ratio Lower Upper
43 100
58 30.7 28.0 42.0

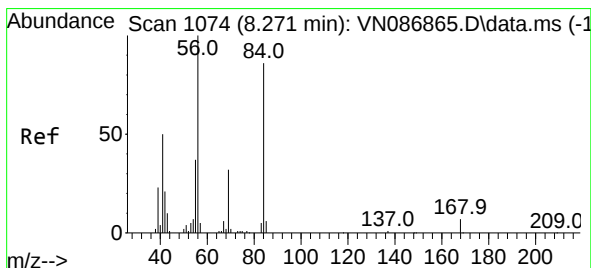
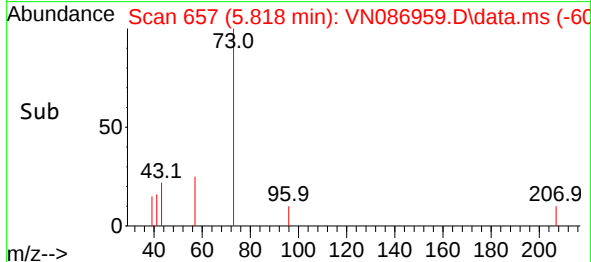
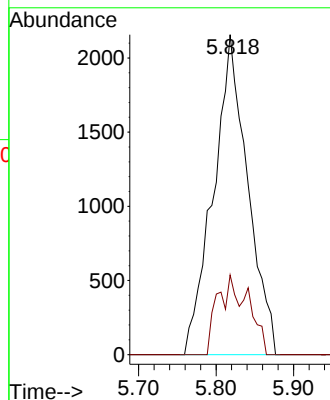
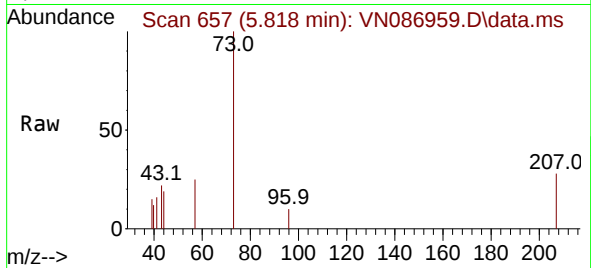




#19
Methyl tert-butyl Ether
Concen: 0.504 ug/l
RT: 5.818 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN086959.D
Acq: 11 Jun 2025 19:10

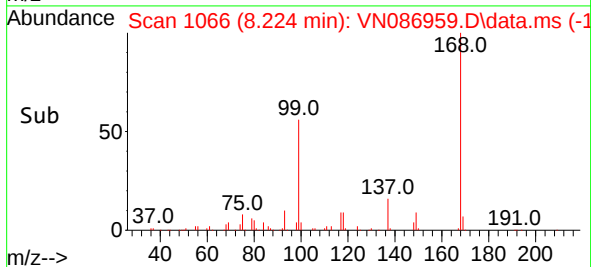
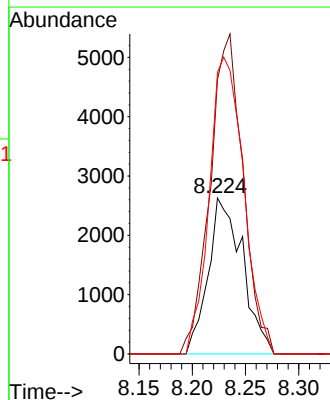
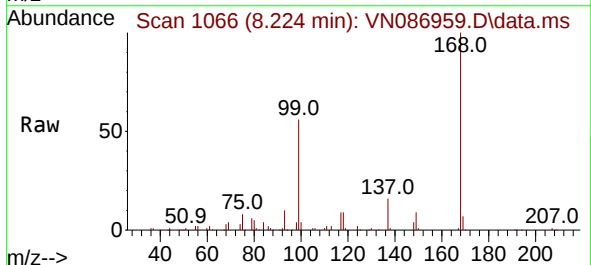
Instrument :
MSVOA_N
ClientSampleId :
TW1

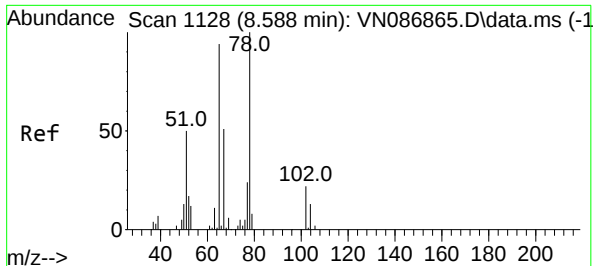
Tgt Ion: 73 Resp: 6640
Ion Ratio Lower Upper
73 100
57 24.9 17.4 26.2



#31
Cyclohexane
Concen: 0.830 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.047 min
Lab File: VN086959.D
Acq: 11 Jun 2025 19:10

Tgt Ion: 56 Resp: 5894
Ion Ratio Lower Upper
56 100
69 175.9 25.4 38.0#
84 180.5 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 49.075 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN086959.D

Acq: 11 Jun 2025 19:10

Instrument :

MSVOA_N

ClientSampleId :

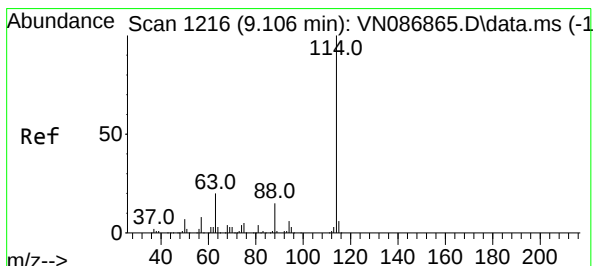
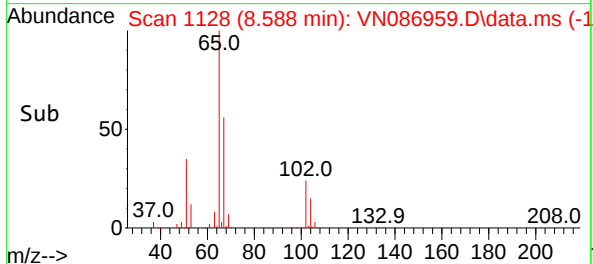
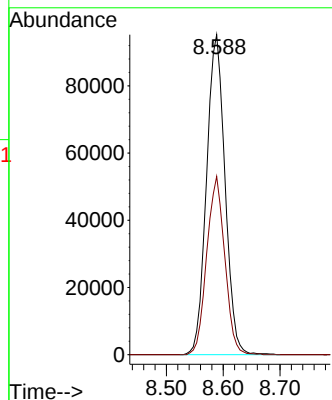
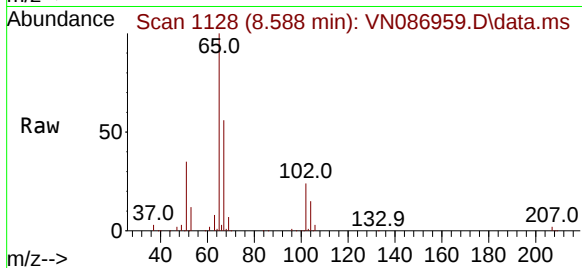
TW1

Tgt Ion: 65 Resp: 214849

Ion Ratio Lower Upper

65 100

67 54.3 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN086959.D

Acq: 11 Jun 2025 19:10

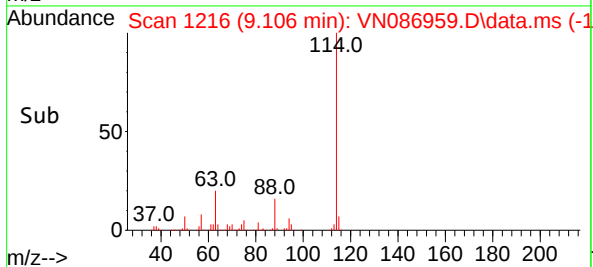
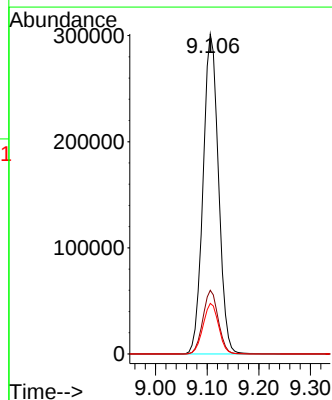
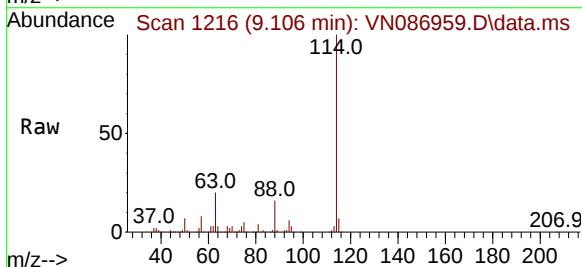
Tgt Ion: 114 Resp: 623551

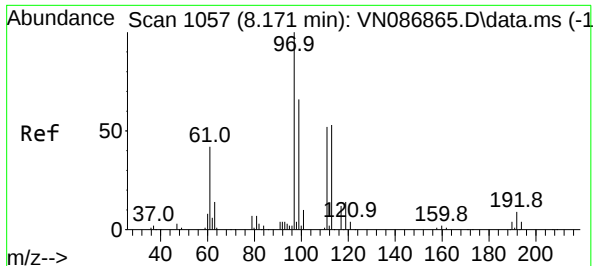
Ion Ratio Lower Upper

114 100

63 19.9 0.0 39.6

88 15.8 0.0 30.2





#35

Dibromofluoromethane

Concen: 49.777 ug/l

RT: 8.177 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN086959.D

Acq: 11 Jun 2025 19:10

Instrument :

MSVOA_N

ClientSampleId :

TW1

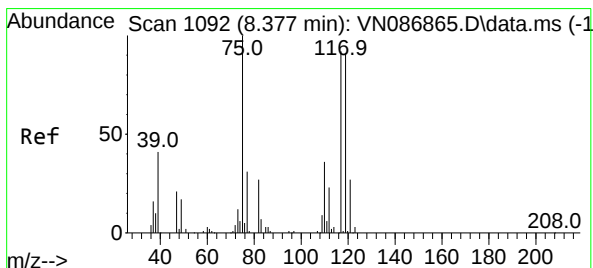
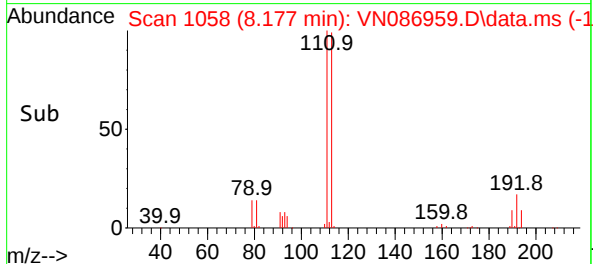
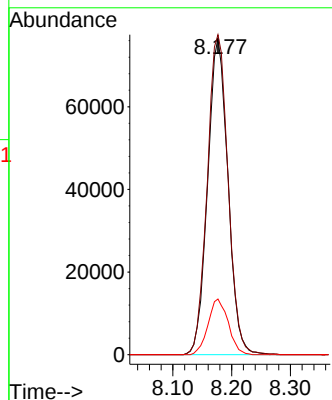
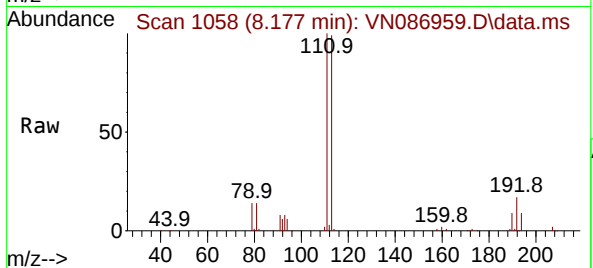
Tgt Ion:113 Resp: 183940

Ion Ratio Lower Upper

113 100

111 103.8 84.2 126.2

192 17.5 14.2 21.4



#36

1,1-Dichloropropene

Concen: 4.552 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN086959.D

Acq: 11 Jun 2025 19:10

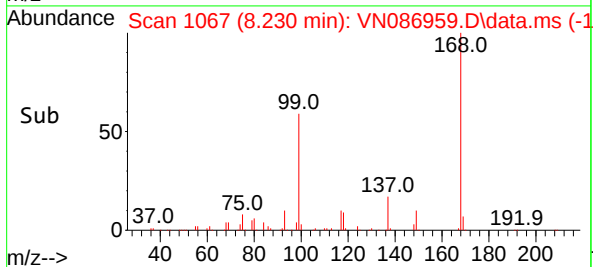
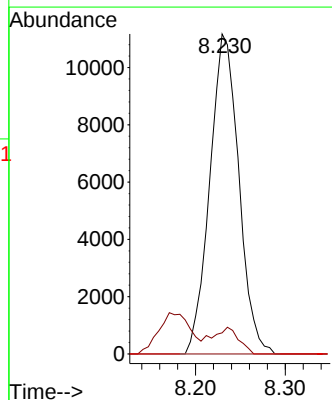
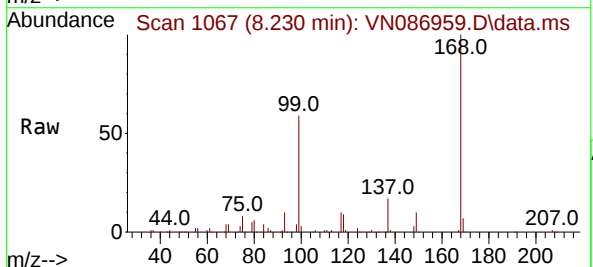
Tgt Ion: 75 Resp: 25067

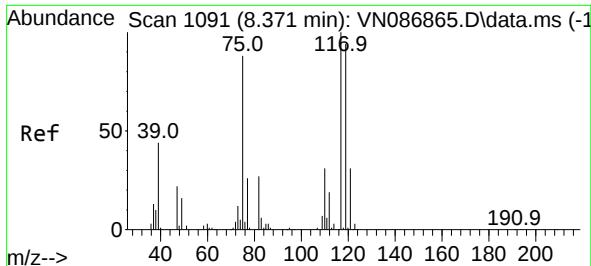
Ion Ratio Lower Upper

75 100

110 6.0 17.6 52.9#

77 0.0 25.3 37.9#

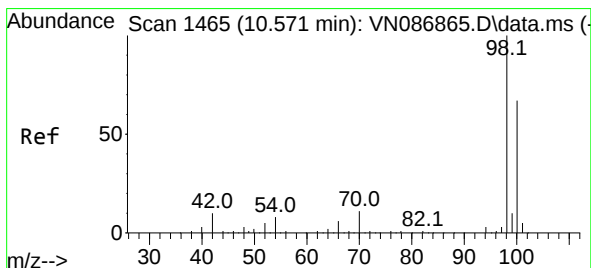
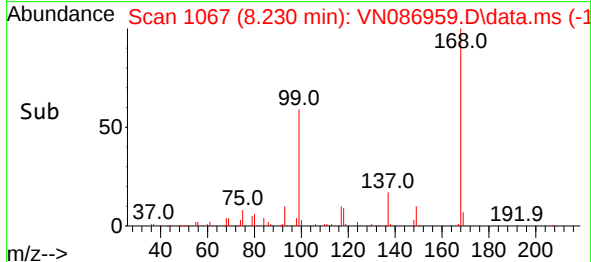
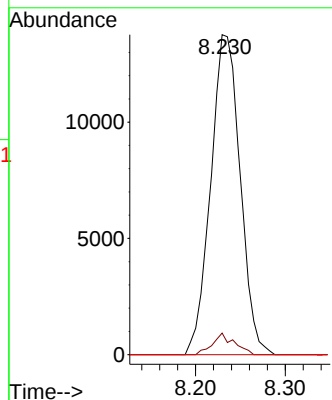
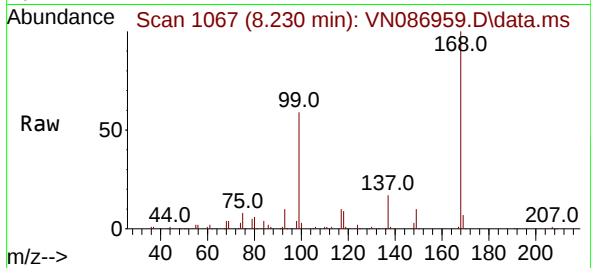




#38
Carbon Tetrachloride
Concen: 5.803 ug/l
RT: 8.230 min Scan# 1091
Delta R.T. -0.141 min
Lab File: VN086959.D
Acq: 11 Jun 2025 19:10

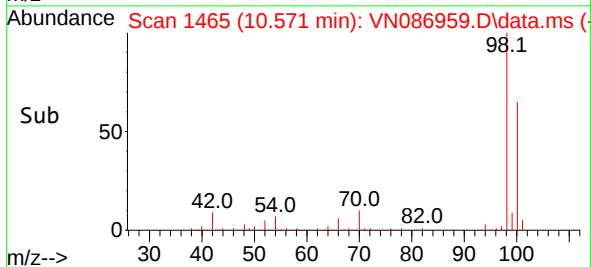
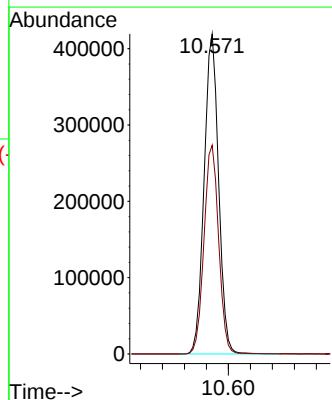
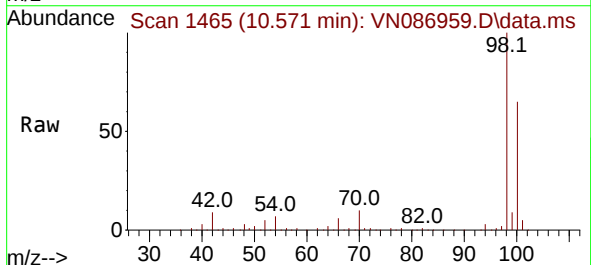
Instrument :
MSVOA_N
ClientSampleId :
TW1

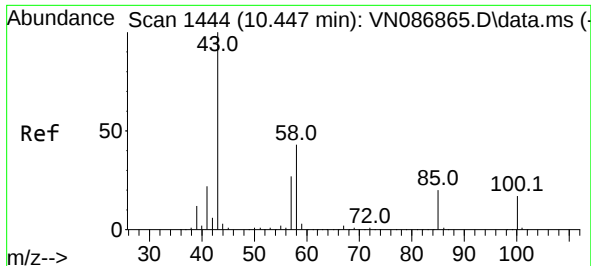
Tgt Ion:117 Resp: 31371
Ion Ratio Lower Upper
117 100
119 6.7 75.0 112.6#
121 0.0 24.9 37.3#



#50
Toluene-d8
Concen: 52.334 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086959.D
Acq: 11 Jun 2025 19:10

Tgt Ion: 98 Resp: 765575
Ion Ratio Lower Upper
98 100
100 66.0 53.4 80.0





#51

4-Methyl-2-Pentanone

Concen: 0.375 ug/l

RT: 10.571 min Scan# 1444

Delta R.T. 0.123 min

Lab File: VN086959.D

Acq: 11 Jun 2025 19:10

Instrument :

MSVOA_N

ClientSampleId :

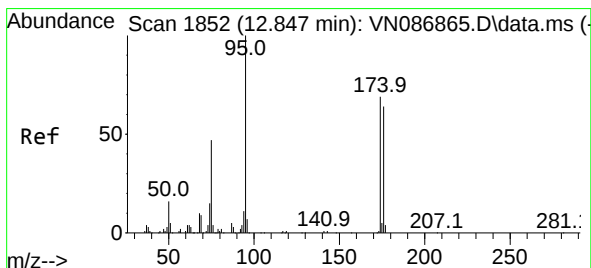
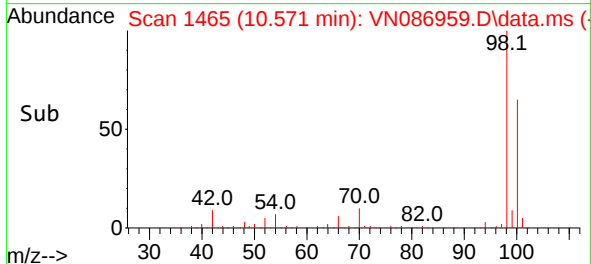
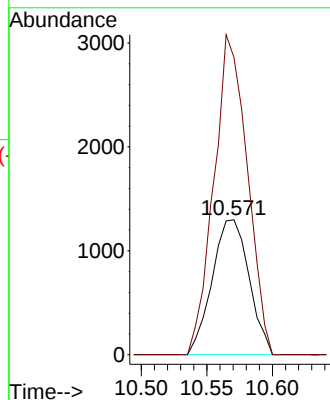
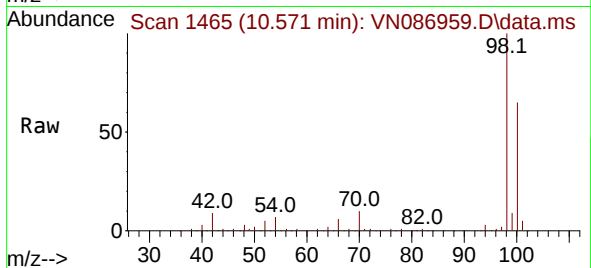
TW1

Tgt Ion: 43 Resp: 2540

Ion Ratio Lower Upper

43 100

58 215.1 34.2 51.4#



#62

4-Bromofluorobenzene

Concen: 50.188 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN086959.D

Acq: 11 Jun 2025 19:10

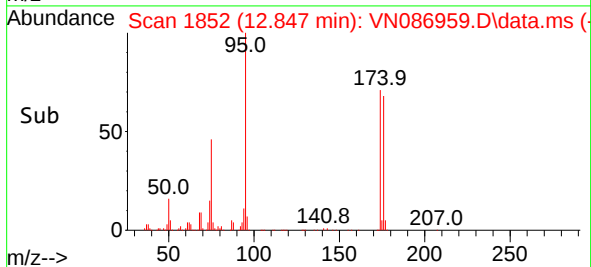
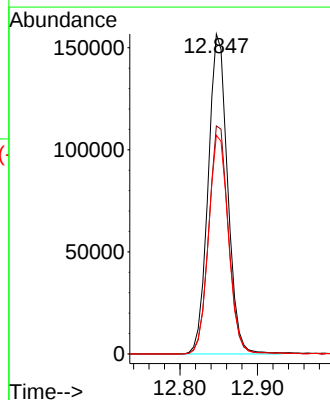
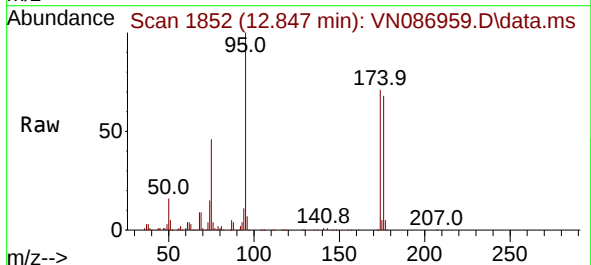
Tgt Ion: 95 Resp: 272770

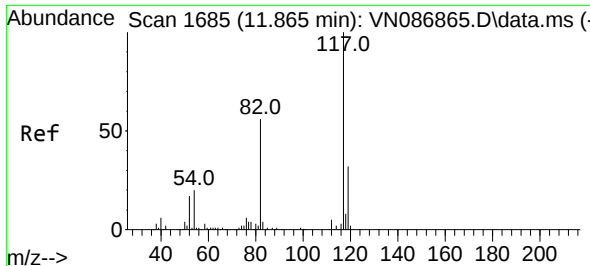
Ion Ratio Lower Upper

95 100

174 72.4 0.0 141.8

176 70.0 0.0 132.6

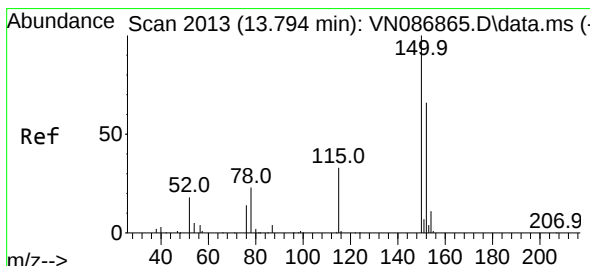
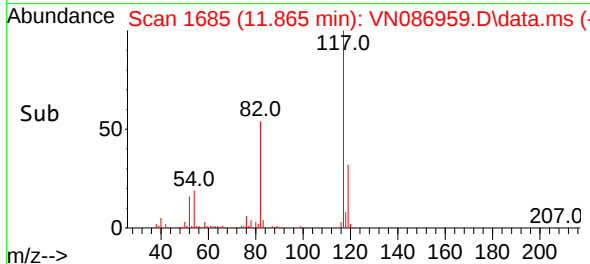
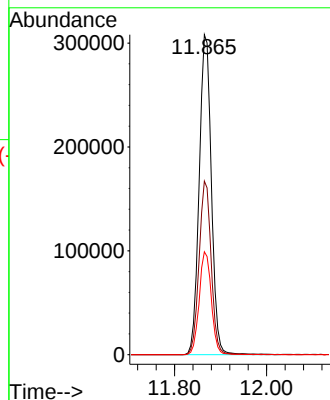
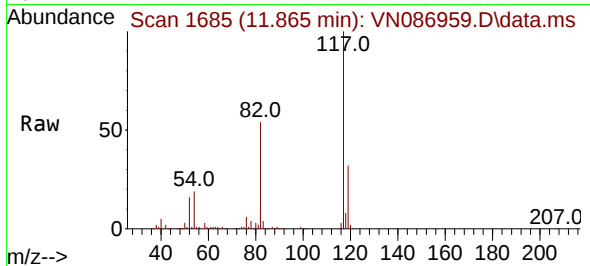




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086959.D
Acq: 11 Jun 2025 19:10

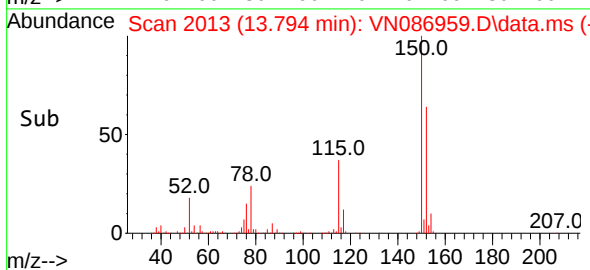
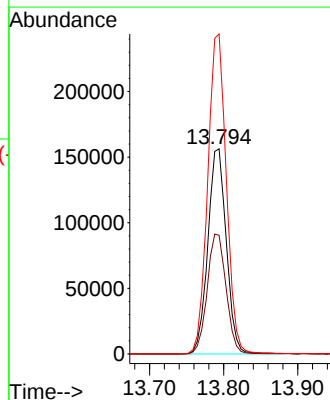
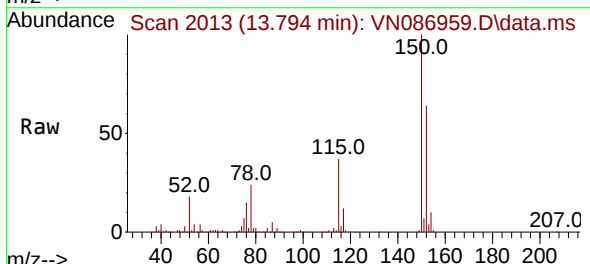
Instrument :
MSVOA_N
ClientSampleId :
TW1

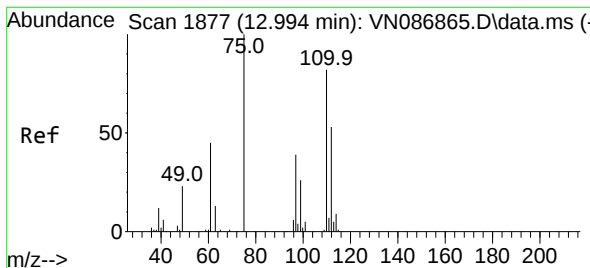
Tgt Ion:117 Resp: 567024
Ion Ratio Lower Upper
117 100
82 54.2 44.6 67.0
119 32.1 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN086959.D
Acq: 11 Jun 2025 19:10

Tgt Ion:152 Resp: 271077
Ion Ratio Lower Upper
152 100
115 59.6 30.1 90.5
150 157.1 0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 19.582 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN086959.D

Acq: 11 Jun 2025 19:10

Instrument :

MSVOA_N

ClientSampleId :

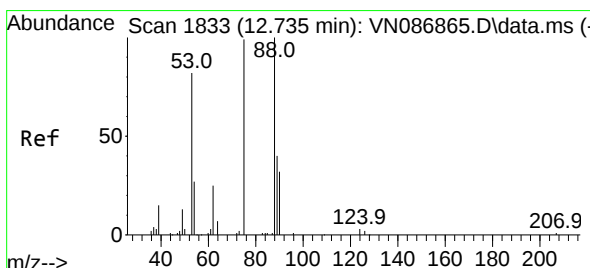
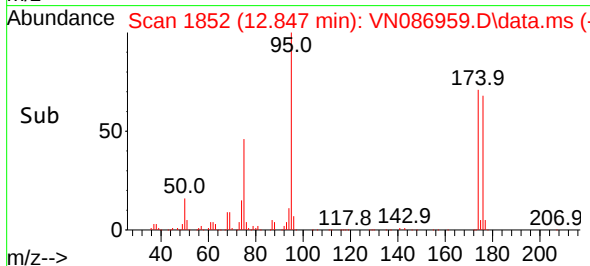
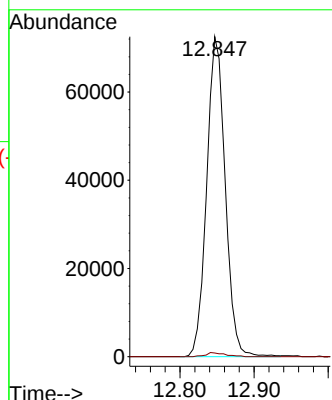
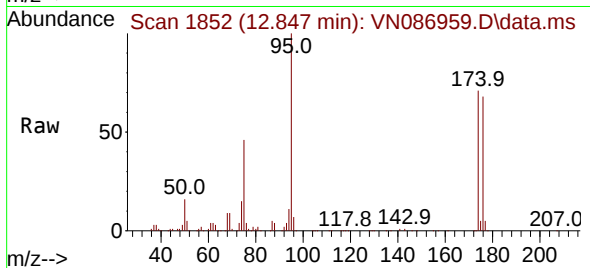
TW1

Tgt Ion: 75 Resp: 126178

Ion Ratio Lower Upper

75 100

77 1.3 79.3 237.9#



#81

trans-1,4-Dichloro-2-butene

Concen: 45.077 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN086959.D

Acq: 11 Jun 2025 19:10

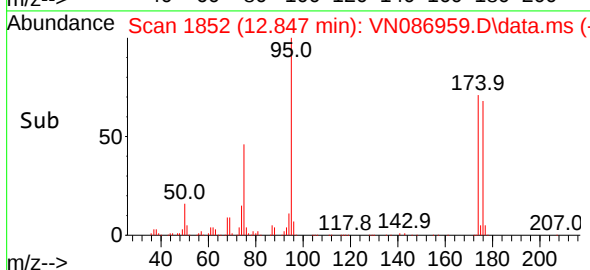
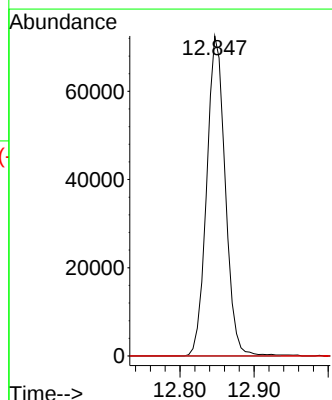
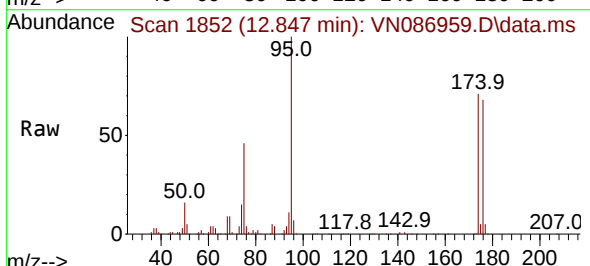
Tgt Ion: 75 Resp: 126178

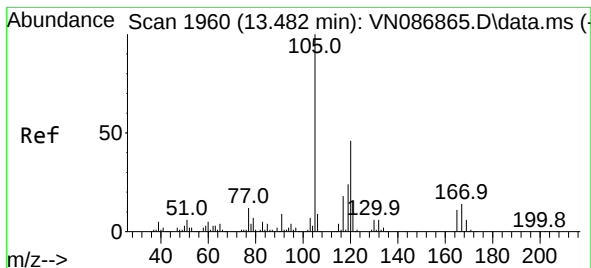
Ion Ratio Lower Upper

75 100

53 0.0 66.6 99.8#

89 0.0 36.7 55.1#





#84

1,2,4-Trimethylbenzene

Concen: 0.416 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. -0.000 min

Lab File: VN086959.D

Acq: 11 Jun 2025 19:10

Instrument :

MSVOA_N

ClientSampleId :

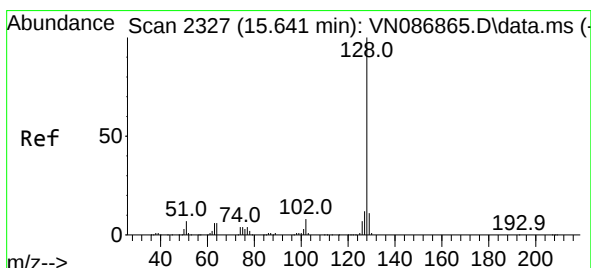
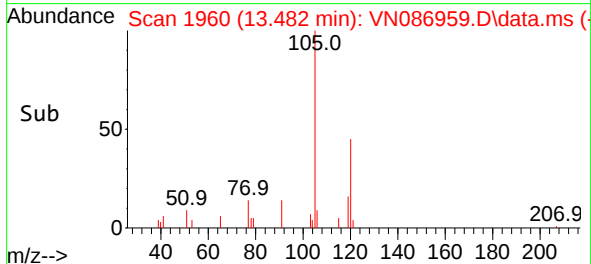
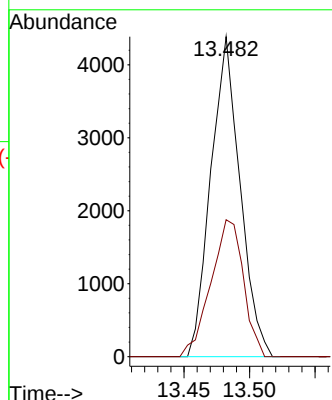
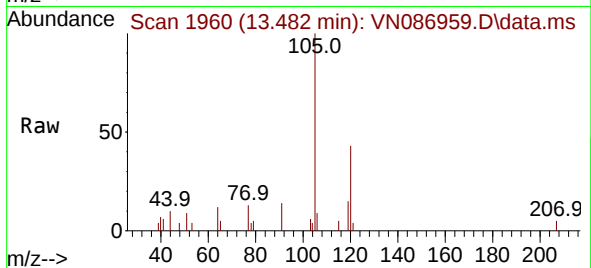
TW1

Tgt Ion:105 Resp: 6797

Ion Ratio Lower Upper

105 100

120 47.6 23.2 69.6



#95

Naphthalene

Concen: 1.922 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. -0.000 min

Lab File: VN086959.D

Acq: 11 Jun 2025 19:10

Tgt Ion:128 Resp: 39117

Ion Ratio Lower Upper

128 100

127 12.7 10.2 15.2

129 10.5 8.8 13.2

