

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
 Data File : VN086960.D
 Acq On : 11 Jun 2025 19:33
 Operator : JC\MD
 Sample : Q2209-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 P01W

Quant Time: Jun 12 01:38:58 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)

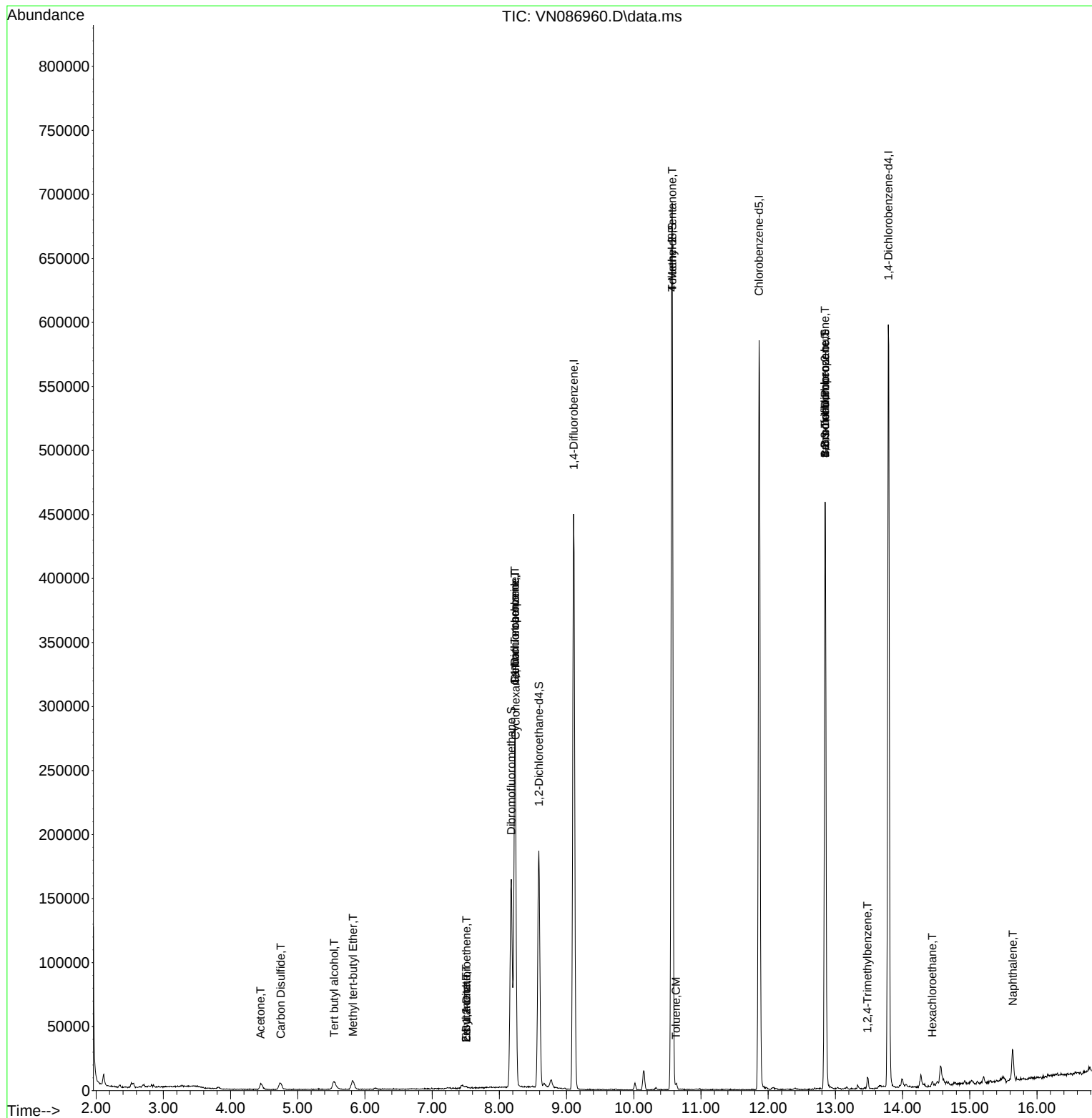
Internal Standards						
1) Pentafluorobenzene	8.236	168	221108	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	420559	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	370668	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	175389	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	149549	50.517	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 101.040%		
35) Dibromofluoromethane	8.177	113	126092	50.592	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 101.180%		
50) Toluene-d8	10.571	98	510884	51.780	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 103.560%		
62) 4-Bromofluorobenzene	12.847	95	180893	49.348	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 98.700%		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.542	59	14515	18.070	ug/l #	88
16) Acetone	4.448	43	8812	5.613	ug/l	97
17) Carbon Disulfide	4.748	76	1621	0.238	ug/l #	75
19) Methyl tert-butyl Ether	5.824	73	11912	1.337	ug/l #	91
25) 2-Butanone	7.506	43	2329	0.913	ug/l #	85
27) cis-1,2-Dichloroethene	7.512	96	781	0.239	ug/l #	1
31) Cyclohexane	8.241	56	4153	0.865	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	16668	4.488	ug/l #	48
37) Ethyl Acetate	7.506	43	2329	0.493	ug/l #	66
38) Carbon Tetrachloride	8.230	117	22062	6.051	ug/l #	17
51) 4-Methyl-2-Pentanone	10.571	43	1716	0.376	ug/l #	1
52) Toluene	10.629	92	1995	0.269	ug/l	92
71) Bromoform	12.847	173	1006	0.517	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	84968	20.381	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	84968	46.915	ug/l #	16
84) 1,2,4-Trimethylbenzene	13.476	105	5936	0.561	ug/l	96
90) Hexachloroethane	14.441	117	2015	1.025	ug/l #	17
95) Naphthalene	15.641	128	26234	1.993	ug/l	99

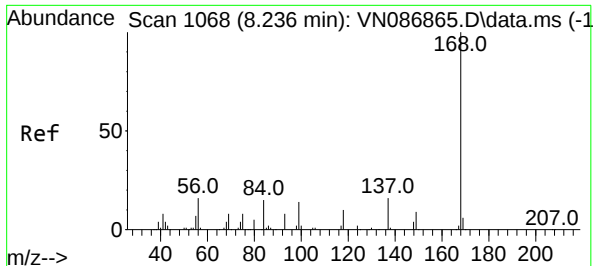
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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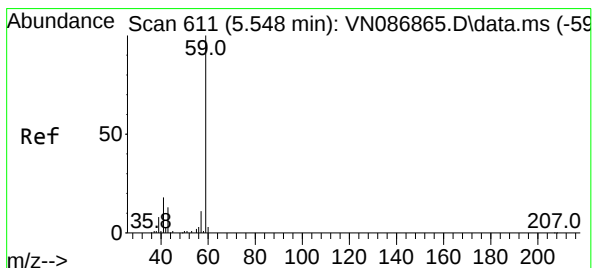
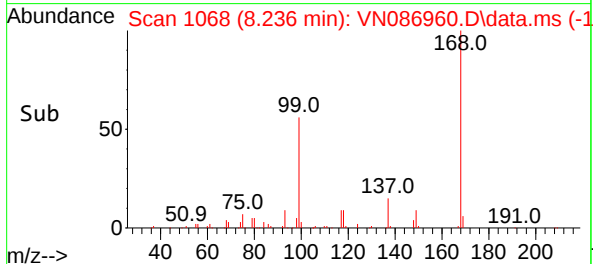
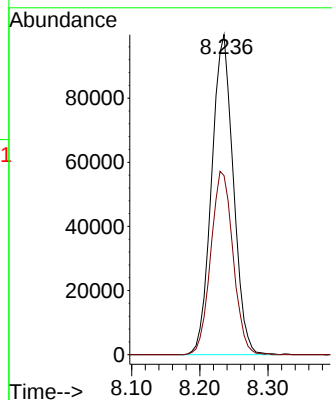
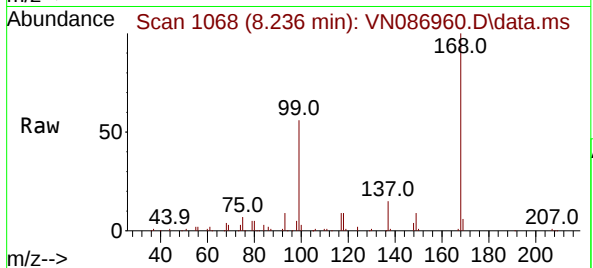




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086960.D
Acq: 11 Jun 2025 19:33

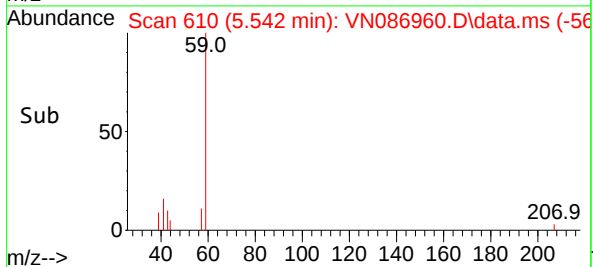
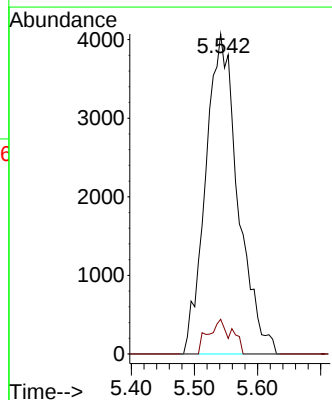
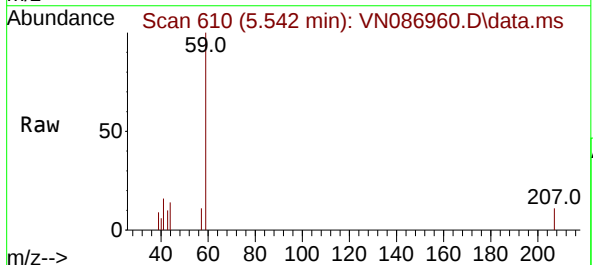
Instrument :
MSVOA_N
ClientSampleId :
P01W

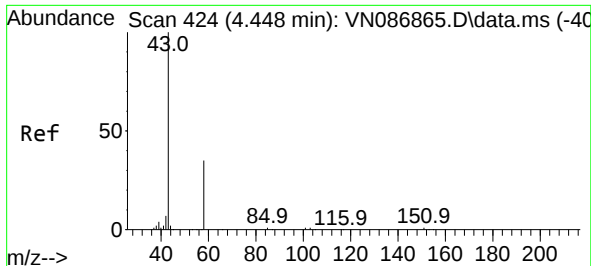
Tgt Ion:168 Resp: 221108
Ion Ratio Lower Upper
168 100
99 56.0 49.1 73.7



#11
Tert butyl alcohol
Concen: 18.070 ug/l
RT: 5.542 min Scan# 610
Delta R.T. -0.006 min
Lab File: VN086960.D
Acq: 11 Jun 2025 19:33

Tgt Ion: 59 Resp: 14515
Ion Ratio Lower Upper
59 100
57 5.8 8.1 12.1#





#16

Acetone

Concen: 5.613 ug/l

RT: 4.448 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN086960.D

Acq: 11 Jun 2025 19:33

Instrument :

MSVOA_N

ClientSampleId :

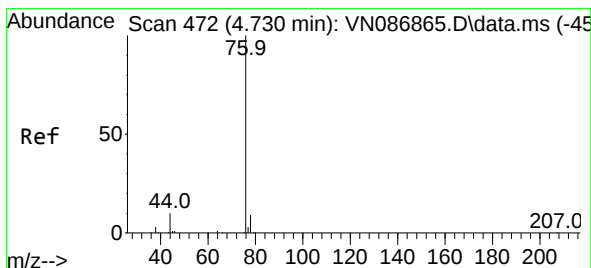
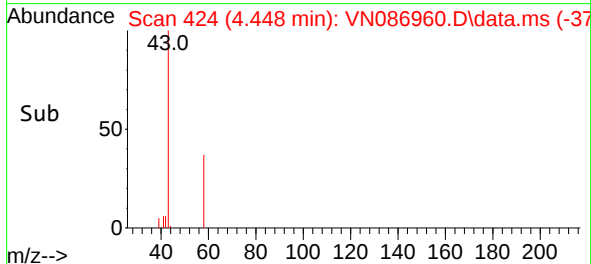
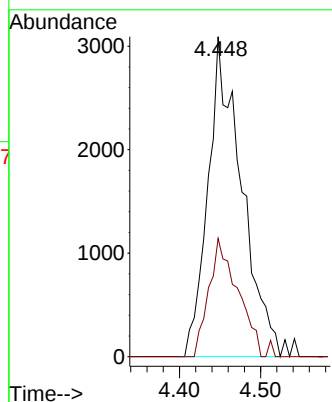
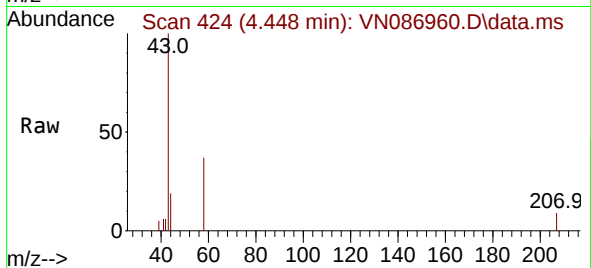
P01W

Tgt Ion: 43 Resp: 8812

Ion Ratio Lower Upper

43 100

58 36.9 28.0 42.0



#17

Carbon Disulfide

Concen: 0.238 ug/l

RT: 4.748 min Scan# 475

Delta R.T. 0.018 min

Lab File: VN086960.D

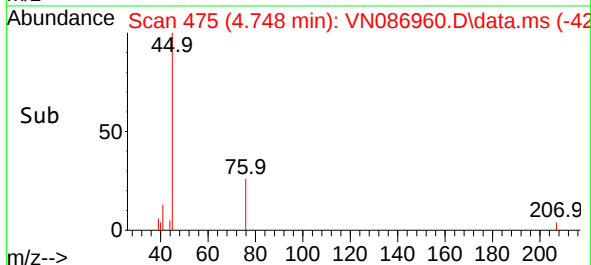
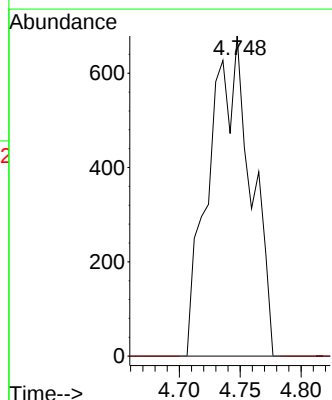
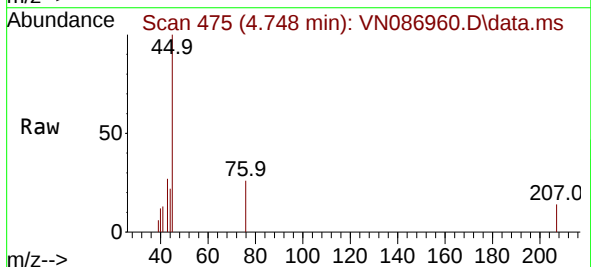
Acq: 11 Jun 2025 19:33

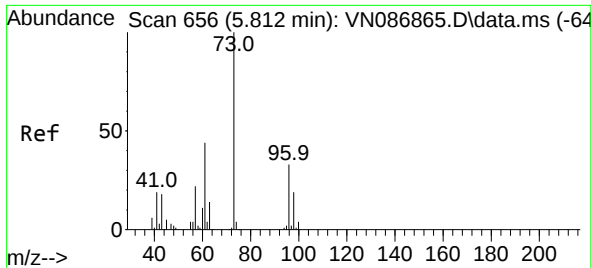
Tgt Ion: 76 Resp: 1621

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#

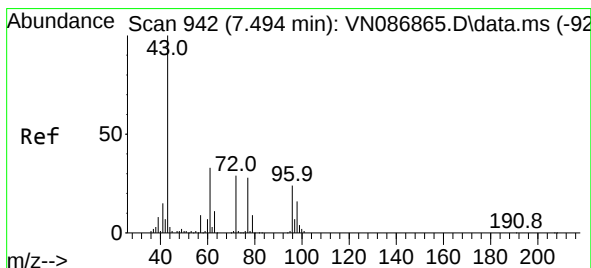
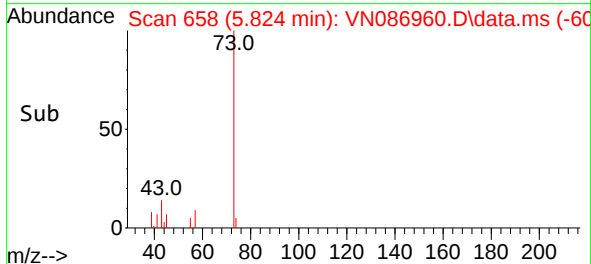
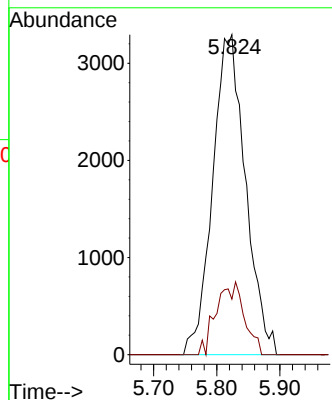
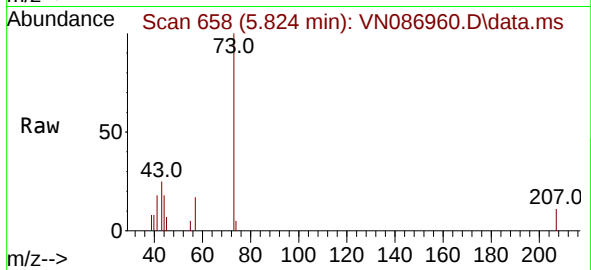




#19
Methyl tert-butyl Ether
Concen: 1.337 ug/l
RT: 5.824 min Scan# 61
Delta R.T. 0.012 min
Lab File: VN086960.D
Acq: 11 Jun 2025 19:33

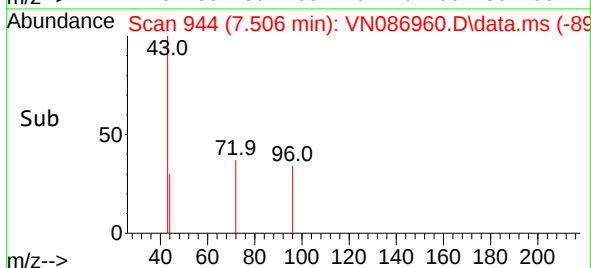
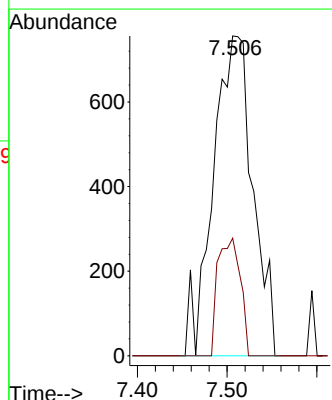
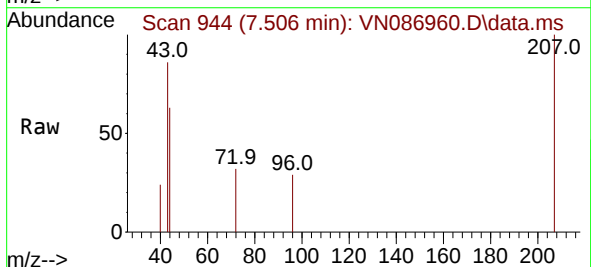
Instrument :
MSVOA_N
ClientSampleId :
P01W

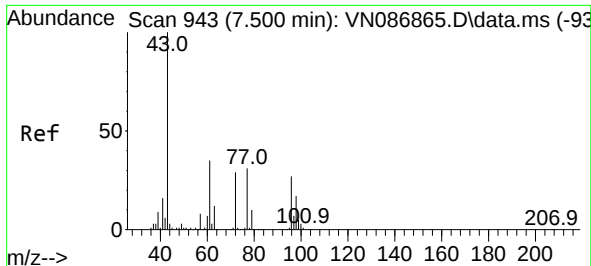
Tgt Ion: 73 Resp: 11912
Ion Ratio Lower Upper
73 100
57 17.3 17.4 26.2#



#25
2-Butanone
Concen: 0.913 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN086960.D
Acq: 11 Jun 2025 19:33

Tgt Ion: 43 Resp: 2329
Ion Ratio Lower Upper
43 100
72 36.8 23.0 34.6#





#27

cis-1,2-Dichloroethene

Concen: 0.239 ug/l

RT: 7.512 min Scan# 94

Delta R.T. 0.012 min

Lab File: VN086960.D

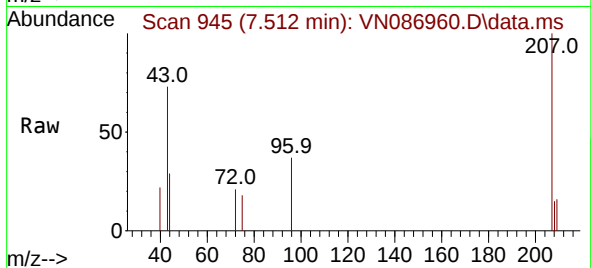
Acq: 11 Jun 2025 19:33

Instrument :

MSVOA_N

ClientSampleId :

P01W



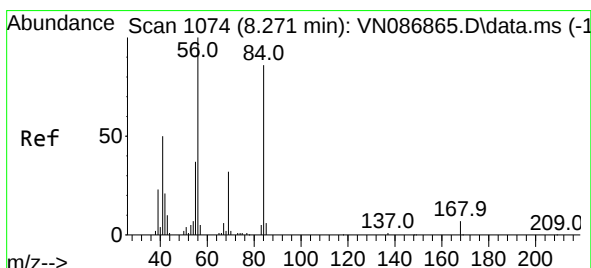
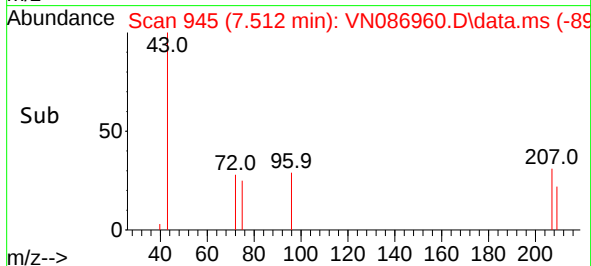
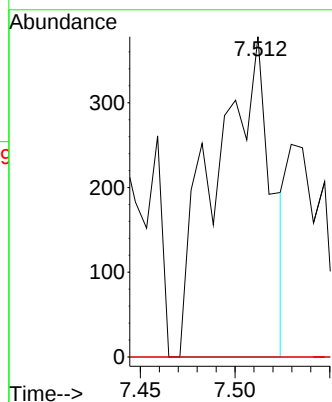
Tgt Ion: 96 Resp: 781

Ion Ratio Lower Upper

96 100

61 0.0 0.0 278.0

98 0.0 0.0 128.2



#31

Cyclohexane

Concen: 0.865 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. -0.029 min

Lab File: VN086960.D

Acq: 11 Jun 2025 19:33

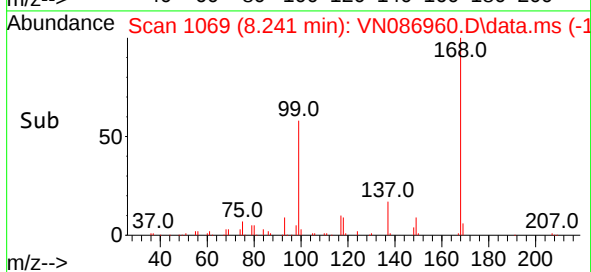
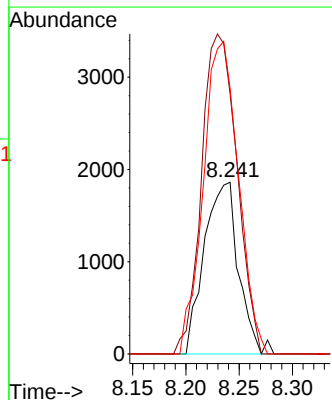
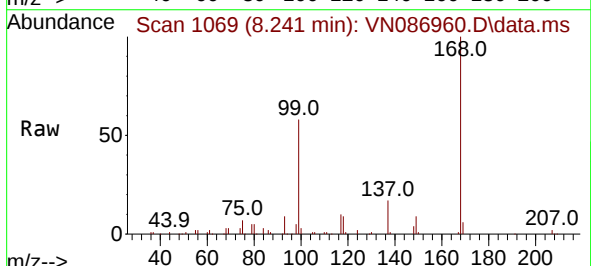
Tgt Ion: 56 Resp: 4153

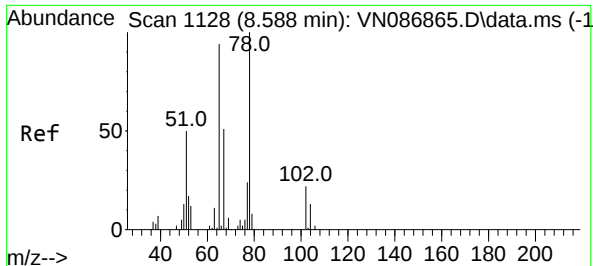
Ion Ratio Lower Upper

56 100

69 151.4 25.4 38.0#

84 154.7 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 50.517 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN086960.D

Acq: 11 Jun 2025 19:33

Instrument :

MSVOA_N

ClientSampleId :

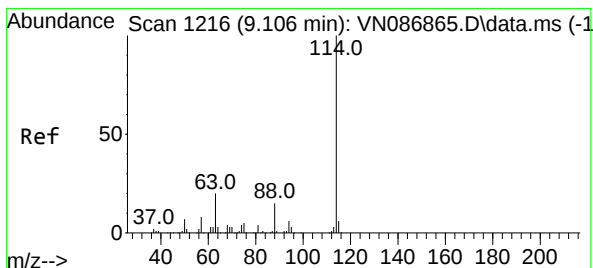
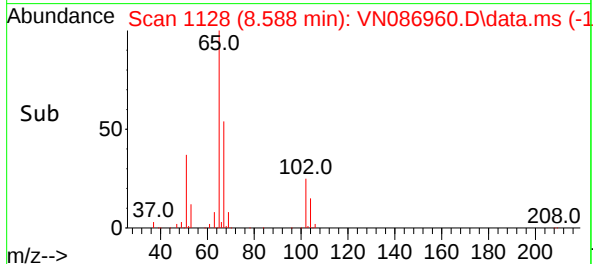
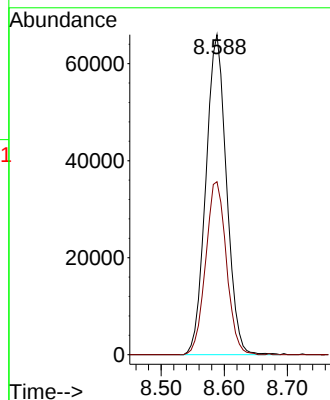
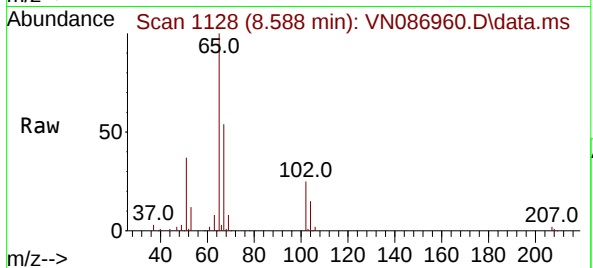
P01W

Tgt Ion: 65 Resp: 149549

Ion Ratio Lower Upper

65 100

67 54.2 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: VN086960.D

Acq: 11 Jun 2025 19:33

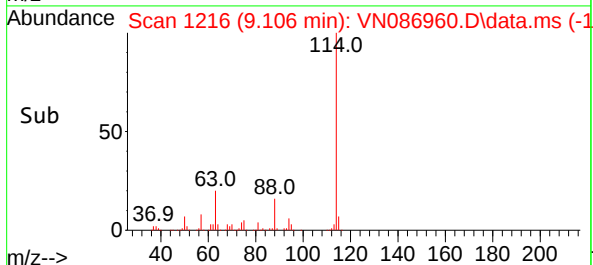
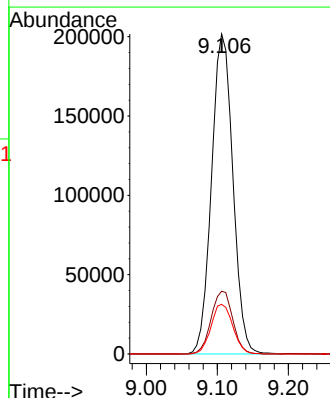
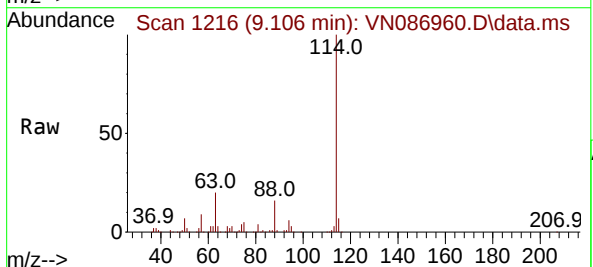
Tgt Ion: 114 Resp: 420559

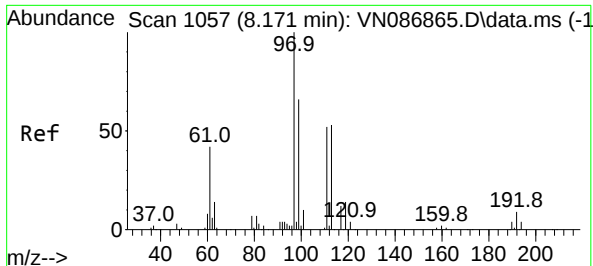
Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.6

88 15.5 0.0 30.2

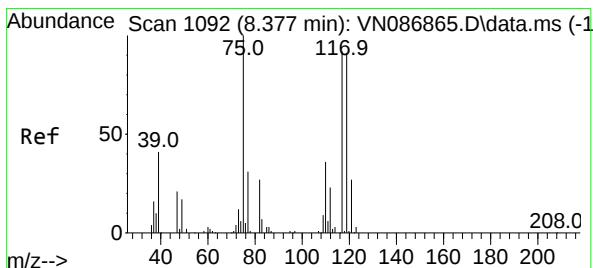
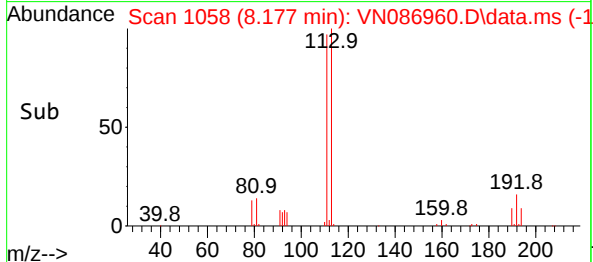
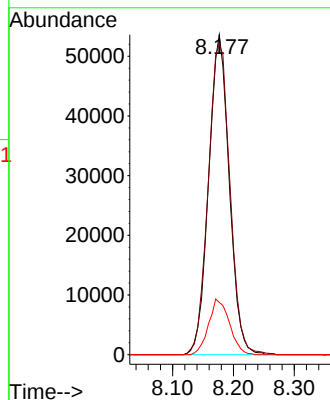
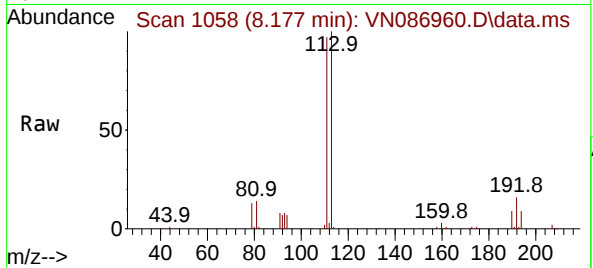




#35
Dibromofluoromethane
Concen: 50.592 ug/l
RT: 8.177 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN086960.D
Acq: 11 Jun 2025 19:33

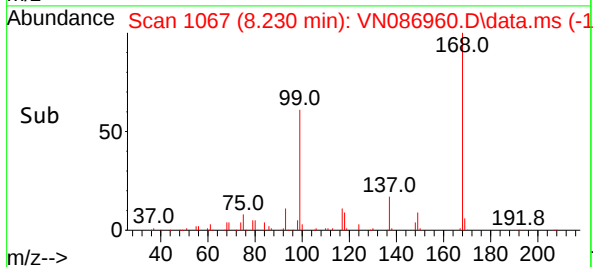
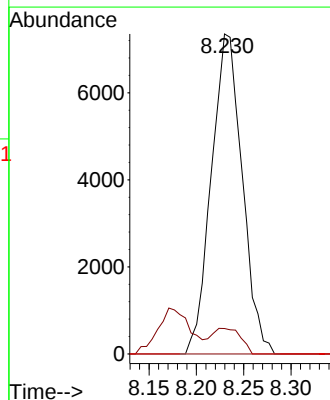
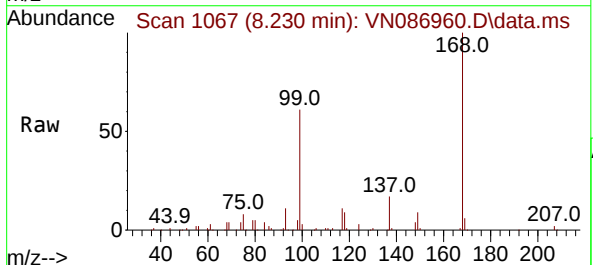
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P01W

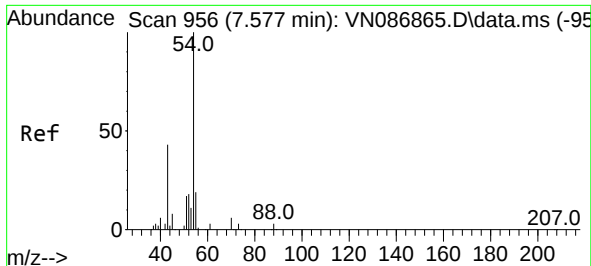
Tgt Ion:113 Resp: 126092
Ion Ratio Lower Upper
113 100
111 102.7 84.2 126.2
192 17.6 14.2 21.4



#36
1,1-Dichloropropene
Concen: 4.488 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN086960.D
Acq: 11 Jun 2025 19:33

Tgt Ion: 75 Resp: 16668
Ion Ratio Lower Upper
75 100
110 7.8 17.6 52.9#
77 0.0 25.3 37.9#





#37

Ethyl Acetate

Concen: 0.493 ug/l

RT: 7.506 min Scan# 944

Delta R.T. -0.071 min

Lab File: VN086960.D

Acq: 11 Jun 2025 19:33

Instrument :

MSVOA_N

ClientSampleId :

P01W

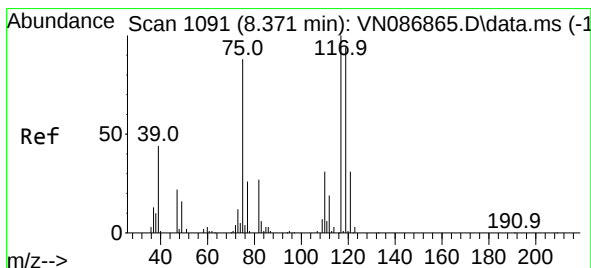
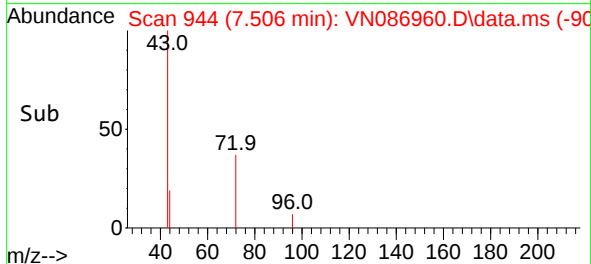
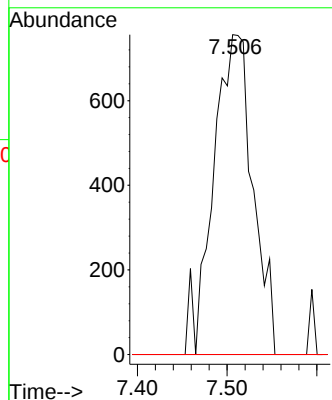
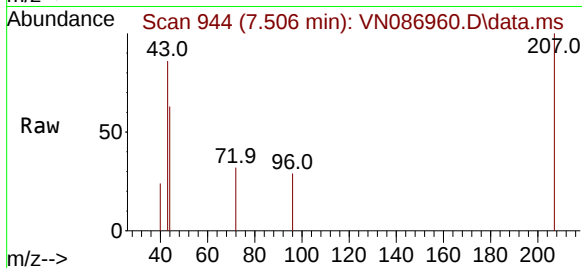
Tgt Ion: 43 Resp: 2329

Ion Ratio Lower Upper

43 100

61 0.0 12.1 18.1#

70 0.0 9.8 14.6#



#38

Carbon Tetrachloride

Concen: 6.051 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN086960.D

Acq: 11 Jun 2025 19:33

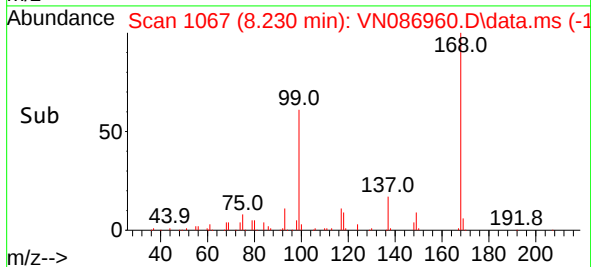
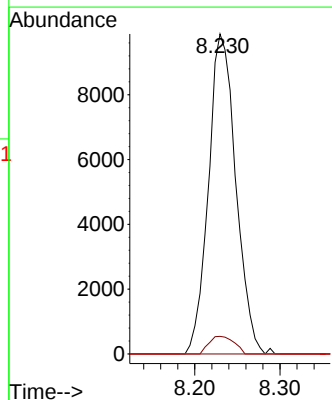
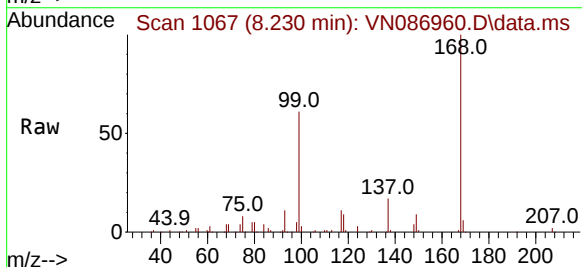
Tgt Ion: 117 Resp: 22062

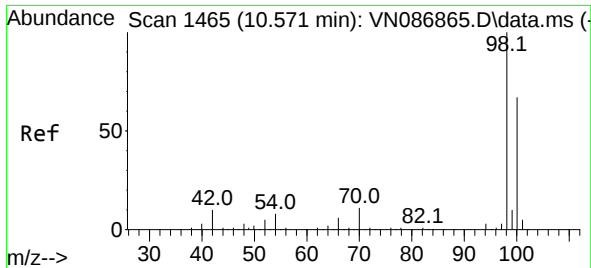
Ion Ratio Lower Upper

117 100

119 5.5 75.0 112.6#

121 0.0 24.9 37.3#

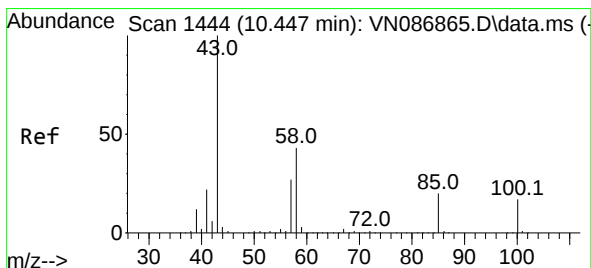
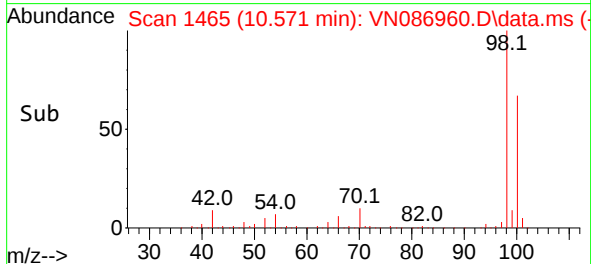
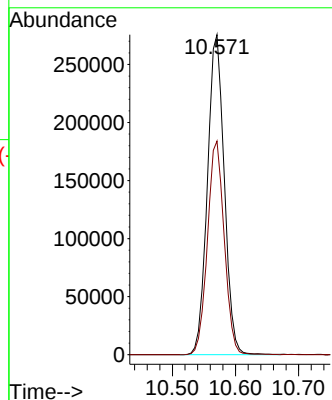
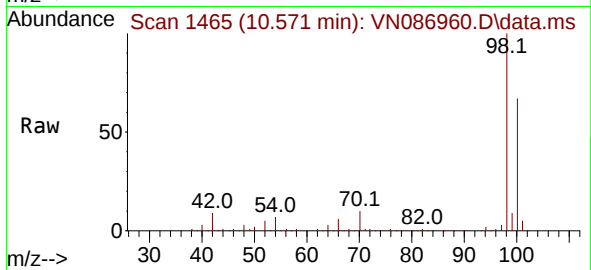




#50
Toluene-d8
Concen: 51.780 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086960.D
Acq: 11 Jun 2025 19:33

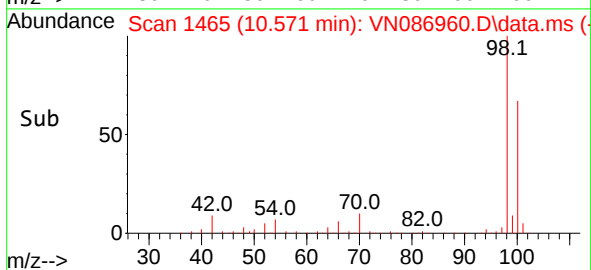
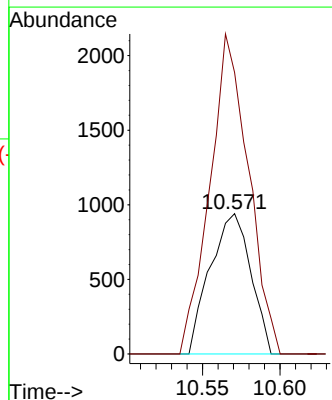
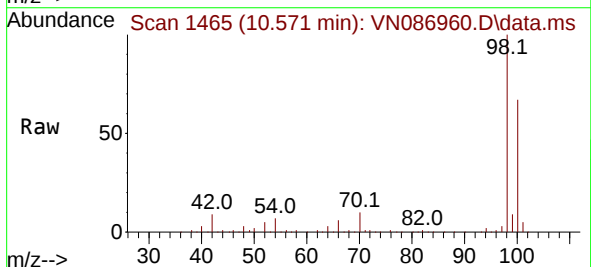
Instrument :
MSVOA_N
ClientSampleId :
P01W

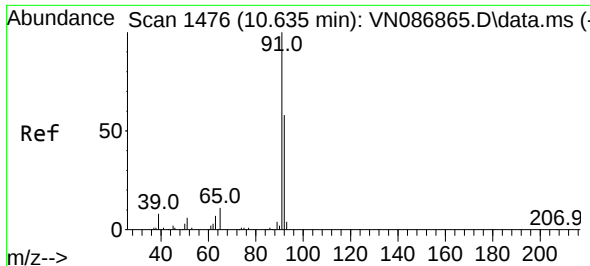
Tgt Ion: 98 Resp: 510884
Ion Ratio Lower Upper
98 100
100 66.5 53.4 80.0



#51
4-Methyl-2-Pentanone
Concen: 0.376 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.123 min
Lab File: VN086960.D
Acq: 11 Jun 2025 19:33

Tgt Ion: 43 Resp: 1716
Ion Ratio Lower Upper
43 100
58 216.8 34.2 51.4#

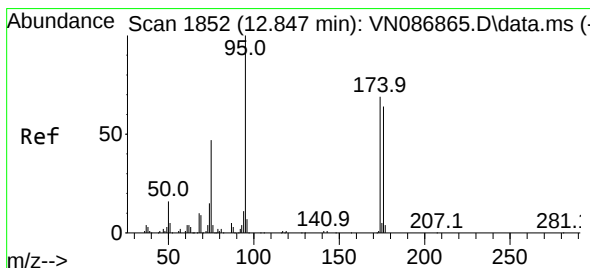
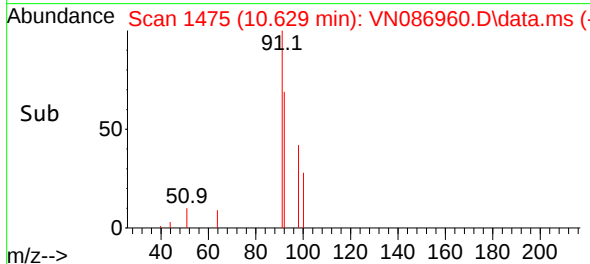
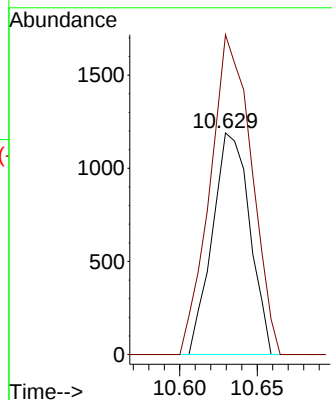
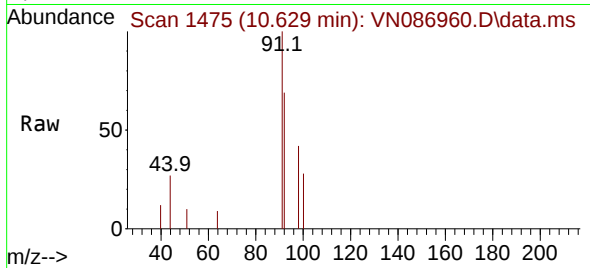




#52
Toluene
Concen: 0.269 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN086960.D
Acq: 11 Jun 2025 19:33

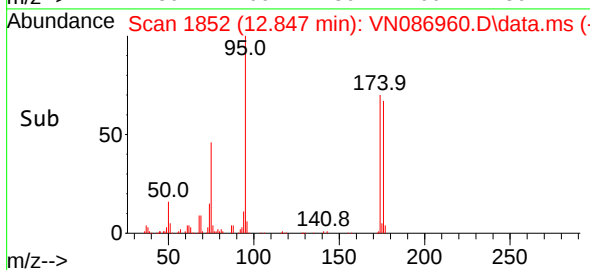
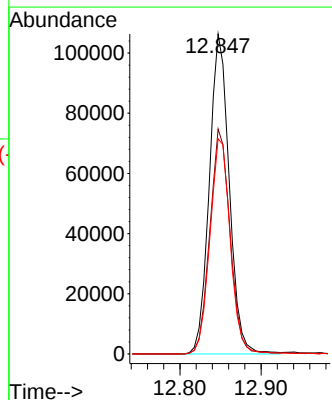
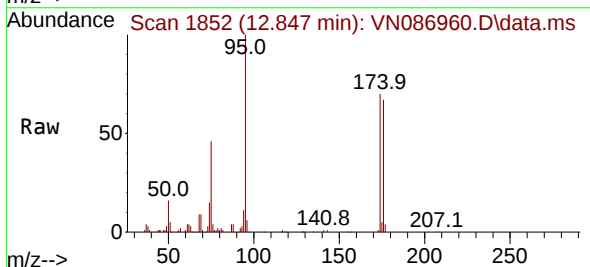
Instrument :
MSVOA_N
ClientSampleId :
P01W

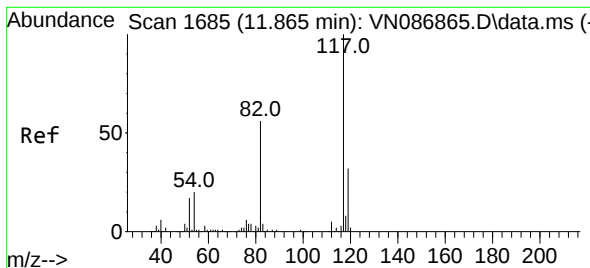
Tgt Ion: 92 Resp: 1995
Ion Ratio Lower Upper
92 100
91 160.2 136.5 204.7



#62
4-Bromofluorobenzene
Concen: 49.348 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086960.D
Acq: 11 Jun 2025 19:33

Tgt Ion: 95 Resp: 180893
Ion Ratio Lower Upper
95 100
174 71.4 0.0 141.8
176 68.8 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: VN086960.D

Acq: 11 Jun 2025 19:33

Instrument :

MSVOA_N

ClientSampleId :

P01W

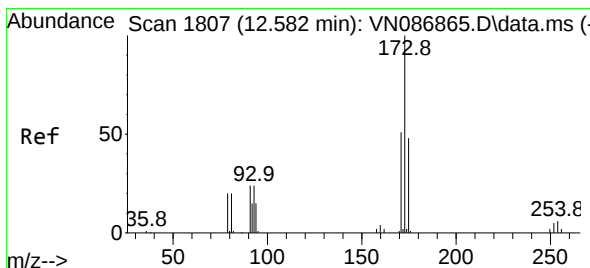
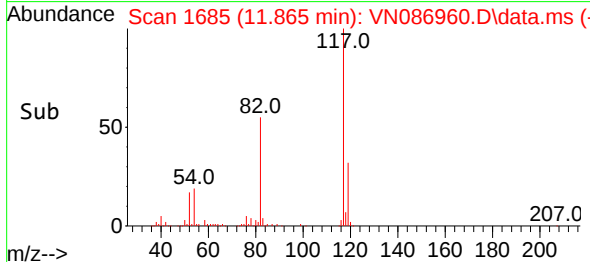
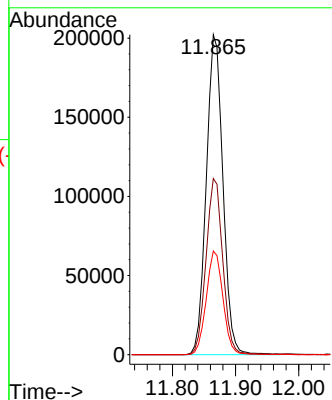
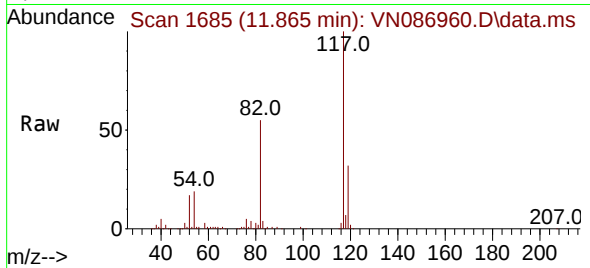
Tgt Ion:117 Resp: 370668

Ion Ratio Lower Upper

117 100

82 55.0 44.6 67.0

119 32.4 25.5 38.3



#71

Bromoform

Concen: 0.517 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.265 min

Lab File: VN086960.D

Acq: 11 Jun 2025 19:33

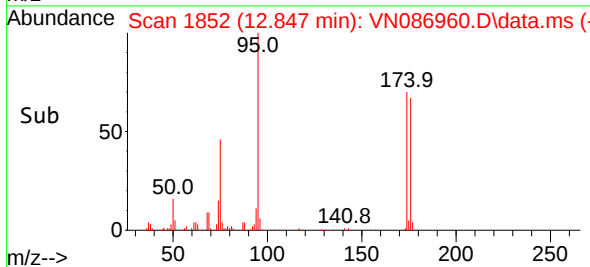
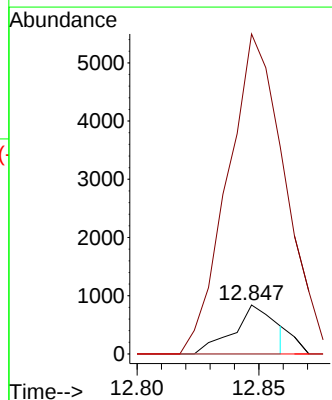
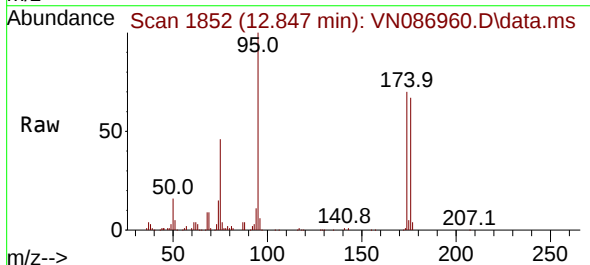
Tgt Ion:173 Resp: 1006

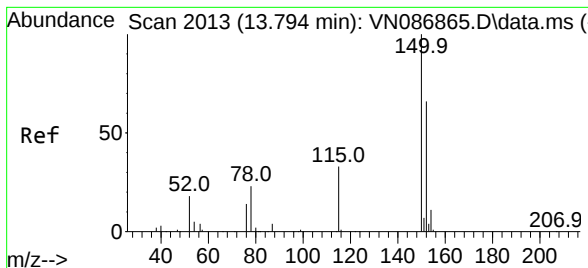
Ion Ratio Lower Upper

173 100

175 773.3 24.1 72.4#

254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. -0.006 min

Lab File: VN086960.D

Acq: 11 Jun 2025 19:33

Instrument :

MSVOA_N

ClientSampleId :

P01W

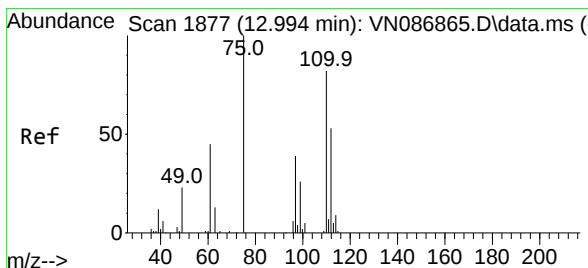
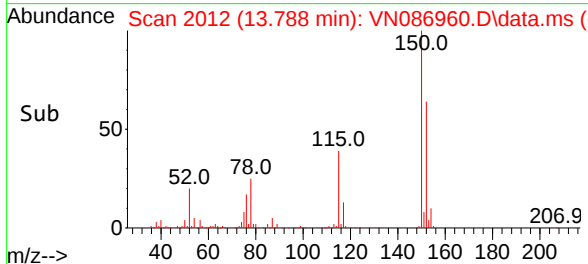
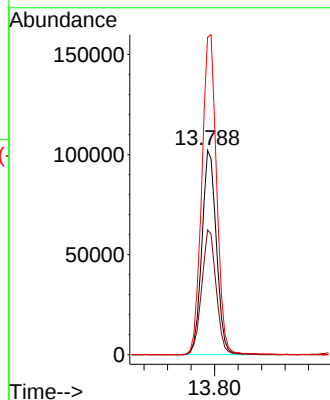
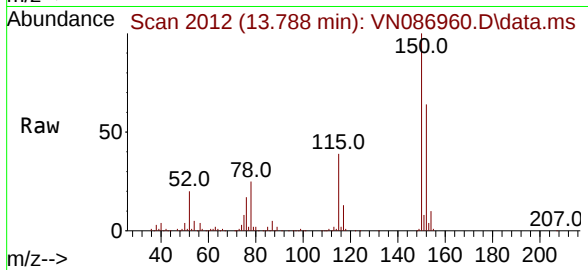
Tgt Ion:152 Resp: 175389

Ion Ratio Lower Upper

152 100

115 61.0 30.1 90.5

150 160.3 0.0 345.0



#76

1,2,3-Trichloropropane

Concen: 20.381 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN086960.D

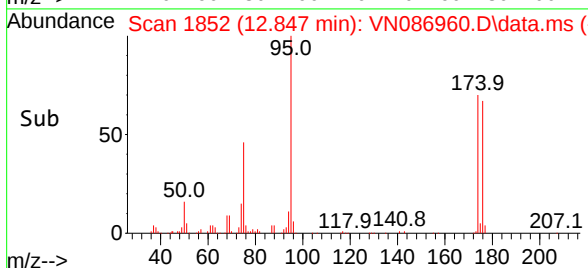
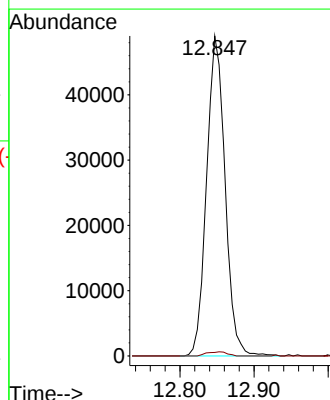
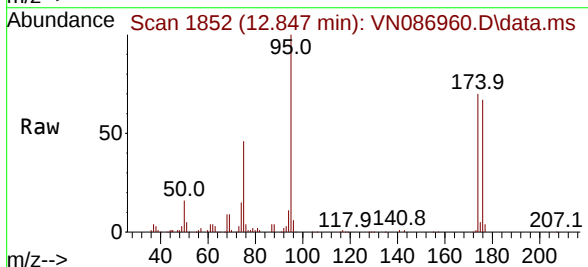
Acq: 11 Jun 2025 19:33

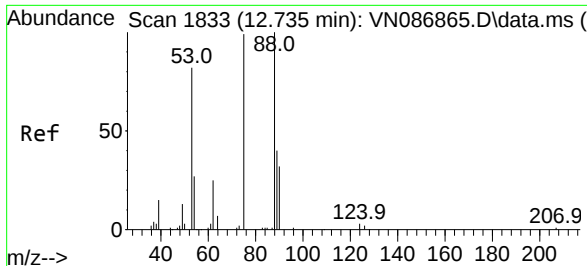
Tgt Ion: 75 Resp: 84968

Ion Ratio Lower Upper

75 100

77 1.4 79.3 237.9#

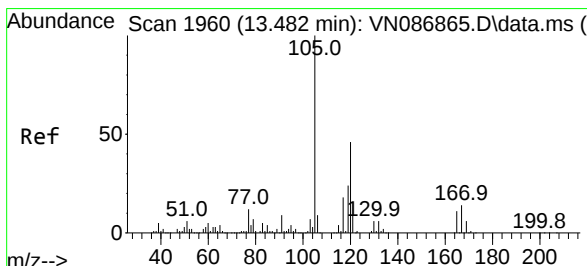
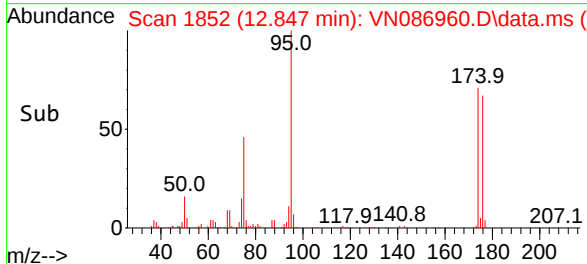
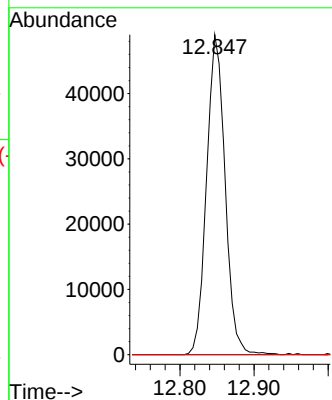
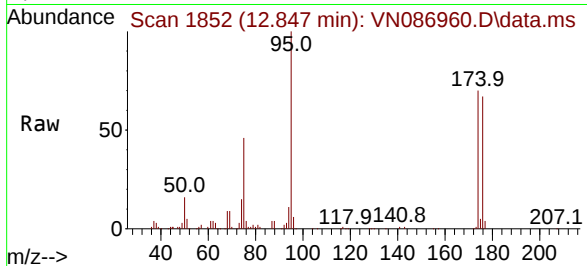




#81
trans-1,4-Dichloro-2-butene
Concen: 46.915 ug/l
RT: 12.847 min Scan# 1833
Delta R.T. 0.112 min
Lab File: VN086960.D
Acq: 11 Jun 2025 19:33

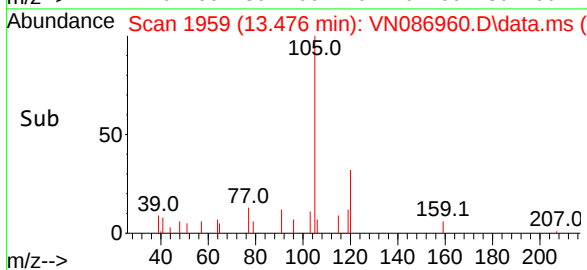
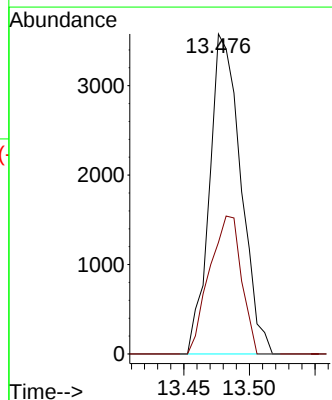
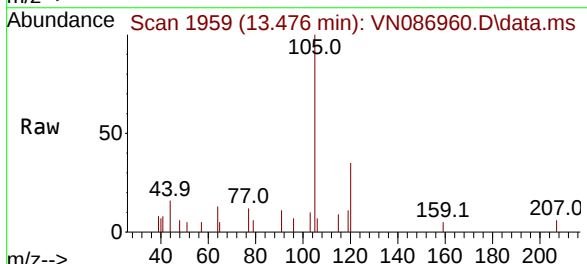
Instrument :
MSVOA_N
ClientSampleId :
P01W

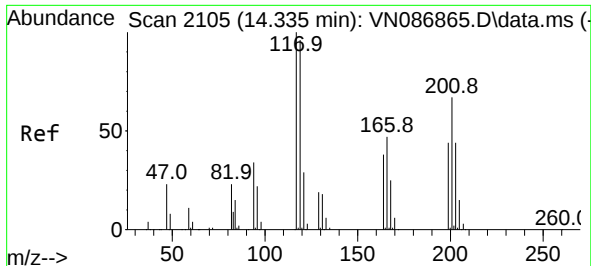
Tgt Ion: 75 Resp: 84968
Ion Ratio Lower Upper
75 100
53 0.0 66.6 99.8#
89 0.0 36.7 55.1#



#84
1,2,4-Trimethylbenzene
Concen: 0.561 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.006 min
Lab File: VN086960.D
Acq: 11 Jun 2025 19:33

Tgt Ion: 105 Resp: 5936
Ion Ratio Lower Upper
105 100
120 44.1 23.2 69.6

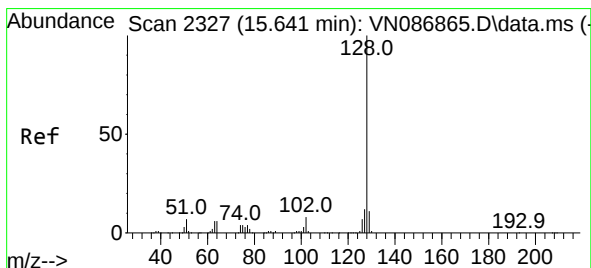
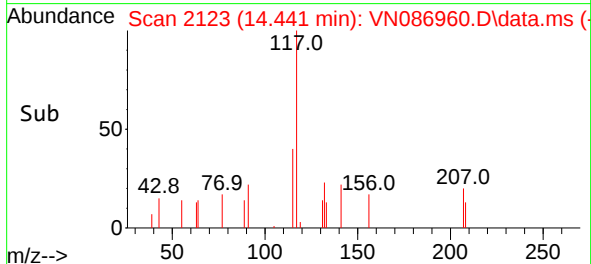
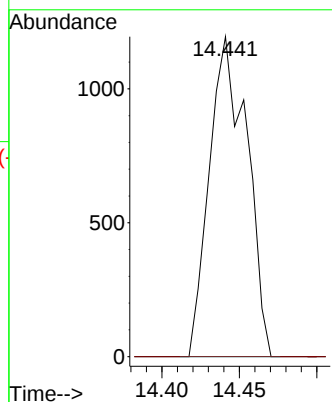
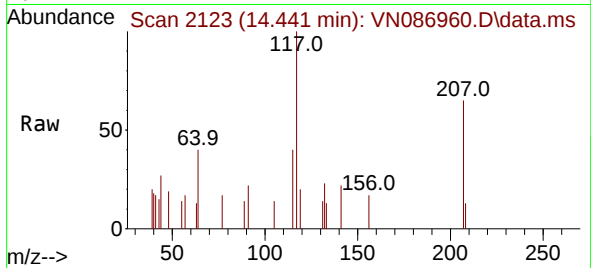




#90
Hexachloroethane
Concen: 1.025 ug/l
RT: 14.441 min Scan# 2105
Delta R.T. 0.106 min
Lab File: VN086960.D
Acq: 11 Jun 2025 19:33

Instrument :
MSVOA_N
ClientSampleId :
P01W

Tgt Ion:117 Resp: 2015
Ion Ratio Lower Upper
117 100
201 0.0 33.2 99.6#



#95
Naphthalene
Concen: 1.993 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN086960.D
Acq: 11 Jun 2025 19:33

Tgt Ion:128 Resp: 26234
Ion Ratio Lower Upper
128 100
127 12.2 10.2 15.2
129 10.6 8.8 13.2

