

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
 Data File : VN087081.D
 Acq On : 18 Jun 2025 13:34
 Operator : JC\MD
 Sample : Q2339-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-C

Quant Time: Jun 19 01:27:33 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)

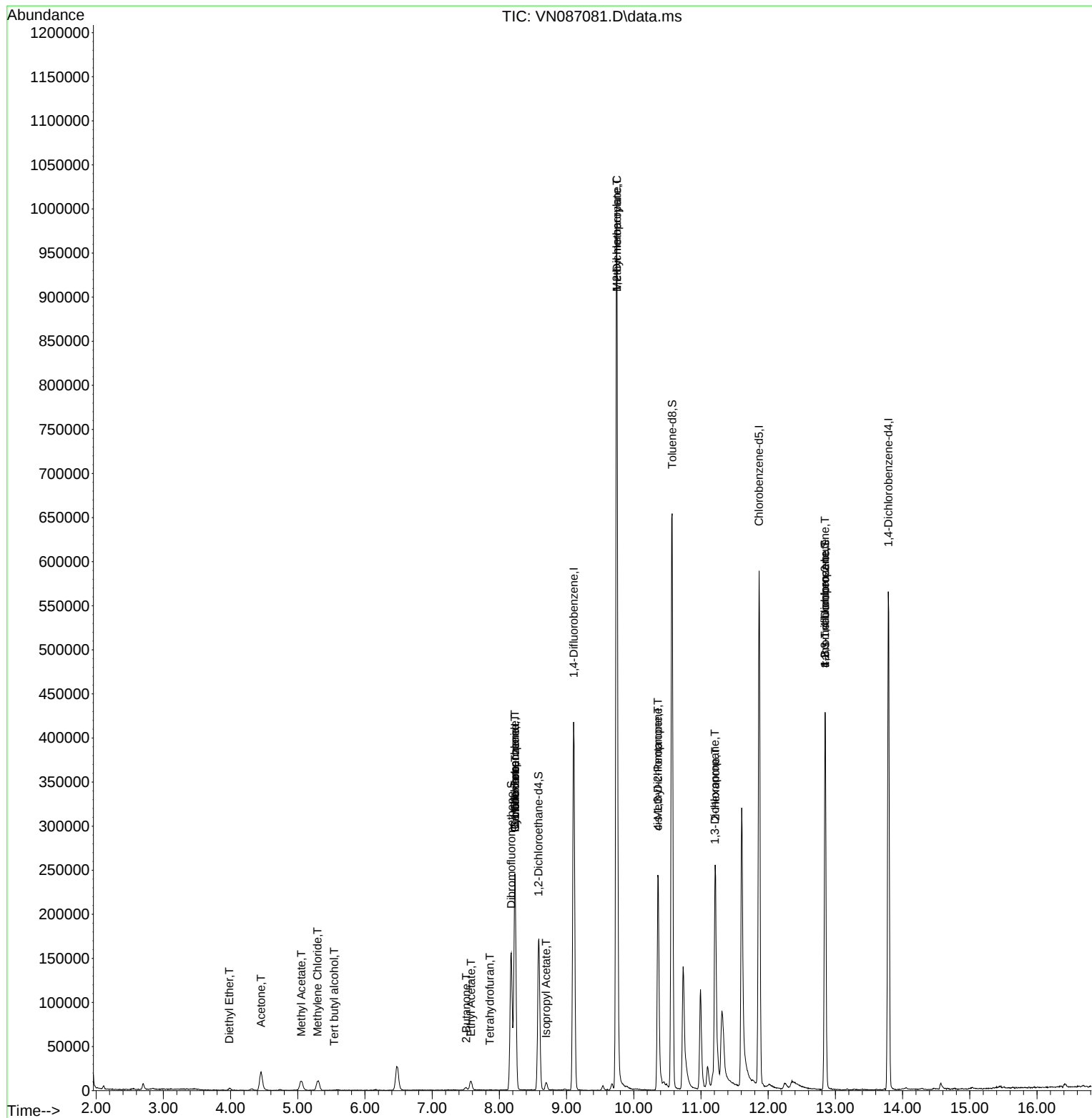
Internal Standards						
1) Pentafluorobenzene	8.236	168	194601	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	394387	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	359527	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	166703	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	141721	54.393	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 108.780%	
35) Dibromofluoromethane	8.177	113	120405	51.516	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 103.040%	
50) Toluene-d8	10.571	98	489109	52.862	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 105.720%	
62) 4-Bromofluorobenzene	12.847	95	169746	49.380	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 98.760%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.983	74	1352	0.919	ug/l	56
11) Tert butyl alcohol	5.542	59	184	0.260	ug/l #	73
16) Acetone	4.453	43	41726	30.199	ug/l	97
18) Methyl Acetate	5.053	43	24199	6.010	ug/l	96
20) Methylene Chloride	5.295	84	10072	3.894	ug/l	91
25) 2-Butanone	7.506	43	5019	2.235	ug/l	95
29) Tetrahydrofuran	7.859	42	419	0.286	ug/l #	31
31) Cyclohexane	8.236	56	3754	0.888	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	14703	4.222	ug/l #	49
37) Ethyl Acetate	7.577	43	16981	3.830	ug/l	98
38) Carbon Tetrachloride	8.230	117	19352	5.660	ug/l #	18
43) Isopropyl Acetate	8.694	43	10380	1.459	ug/l	95
45) 1,2-Dichloropropane	9.747	63	1424	0.514	ug/l #	43
48) Methyl methacrylate	9.747	41	84751	25.877	ug/l #	35
51) 4-Methyl-2-Pentanone	10.359	43	95536	22.302	ug/l #	45
54) cis-1,3-Dichloropropene	10.359	75	59456	13.124	ug/l #	56
57) 1,3-Dichloropropane	11.206	76	3691	0.795	ug/l #	43
59) 2-Hexanone	11.212	43	39381	14.272	ug/l #	54
76) 1,2,3-Trichloropropane	12.847	75	78526	19.817	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	78526	45.617	ug/l #	16

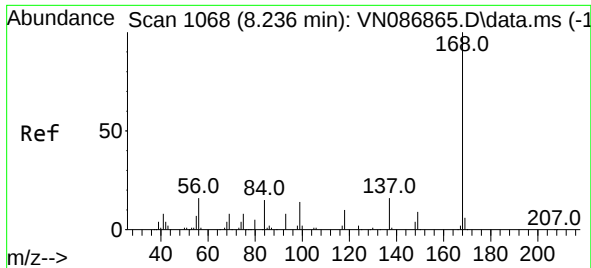
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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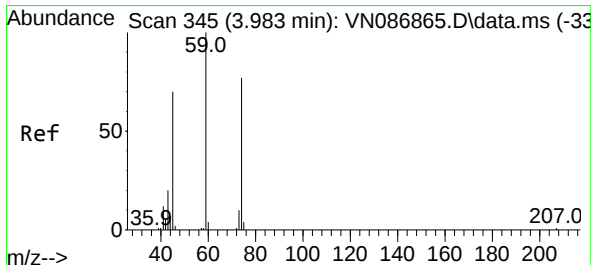
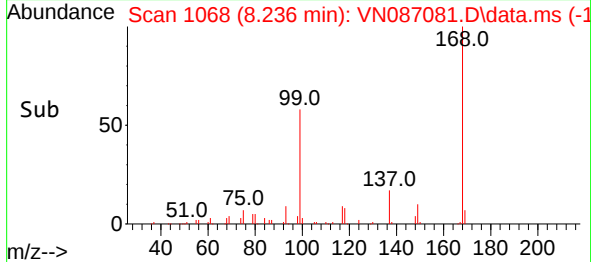
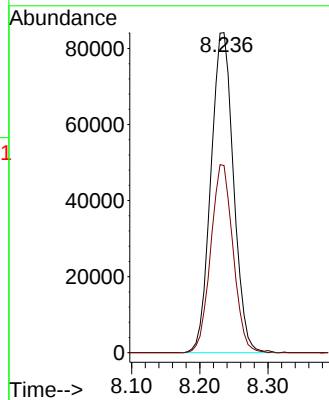
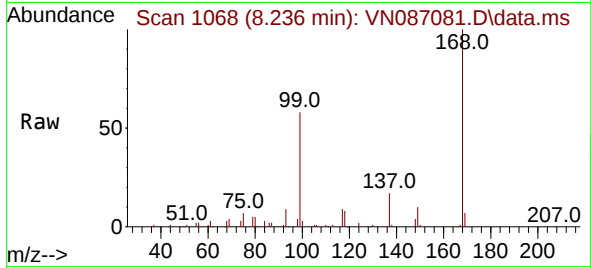




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.000 min
Lab File: VN087081.D
Acq: 18 Jun 2025 13:34

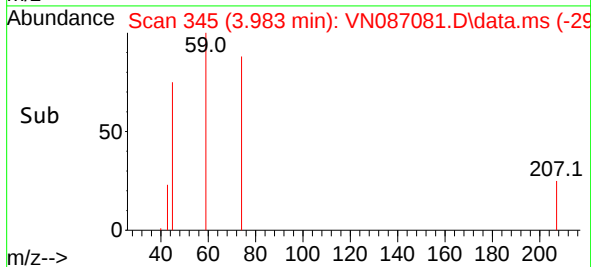
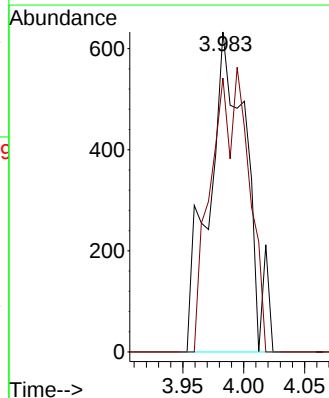
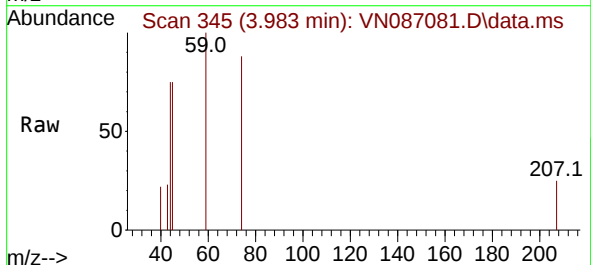
Instrument :
MSVOA_N
ClientSampleId :
MH-C

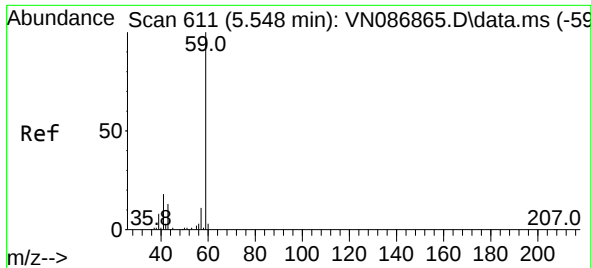
Tgt Ion:168 Resp: 194601
Ion Ratio Lower Upper
168 100
99 58.5 49.1 73.7



#8
Diethyl Ether
Concen: 0.919 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN087081.D
Acq: 18 Jun 2025 13:34

Tgt Ion: 74 Resp: 1352
Ion Ratio Lower Upper
74 100
45 49.2 45.5 136.5

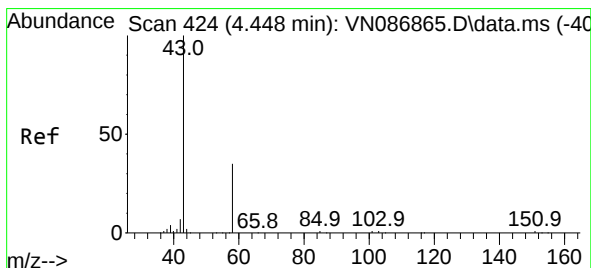
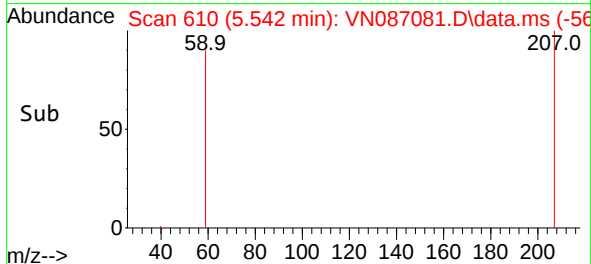
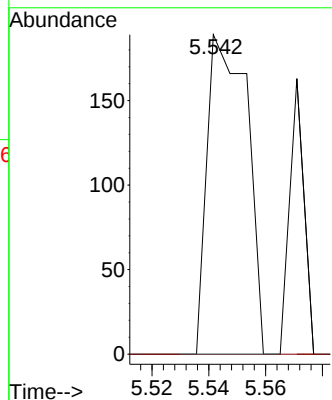
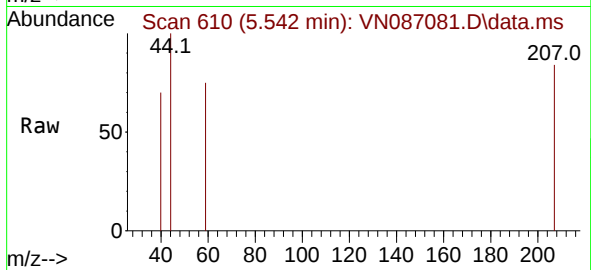




#11
Tert butyl alcohol
Concen: 0.260 ug/l
RT: 5.542 min Scan# 611
Delta R.T. -0.006 min
Lab File: VN087081.D
Acq: 18 Jun 2025 13:34

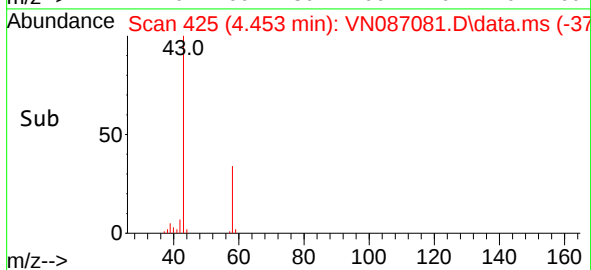
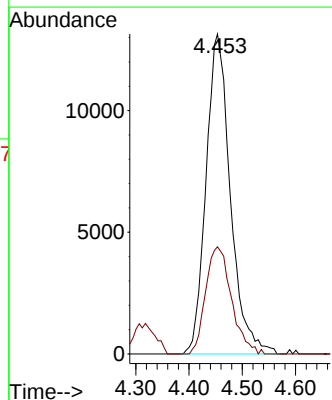
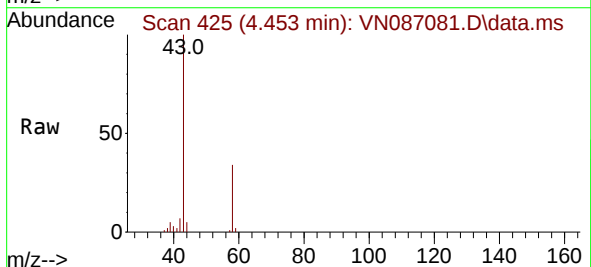
Instrument :
MSVOA_N
ClientSampleId :
MH-C

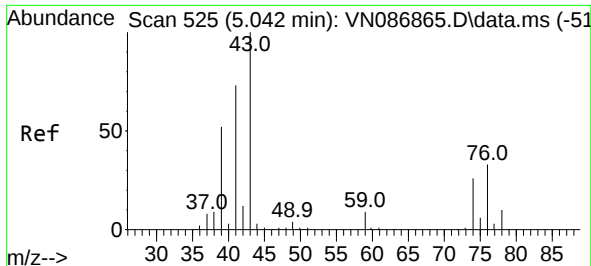
Tgt Ion: 59 Resp: 184
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#



#16
Acetone
Concen: 30.199 ug/l
RT: 4.453 min Scan# 425
Delta R.T. 0.006 min
Lab File: VN087081.D
Acq: 18 Jun 2025 13:34

Tgt Ion: 43 Resp: 41726
Ion Ratio Lower Upper
43 100
58 33.5 28.0 42.0

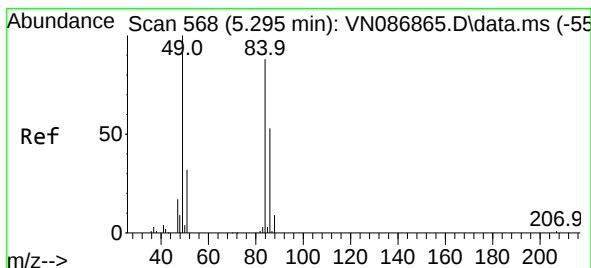
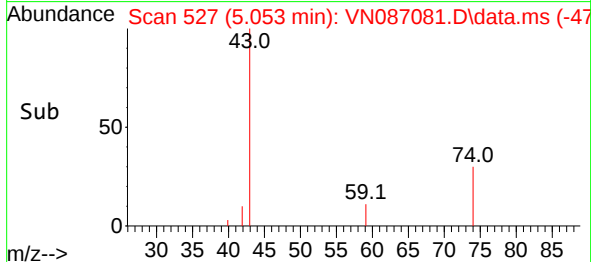
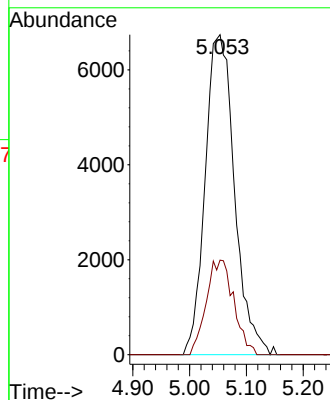
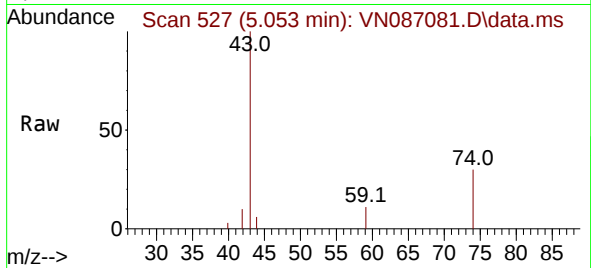




#18
Methyl Acetate
Concen: 6.010 ug/l
RT: 5.053 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN087081.D
Acq: 18 Jun 2025 13:34

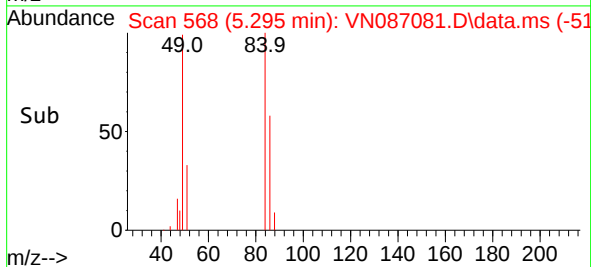
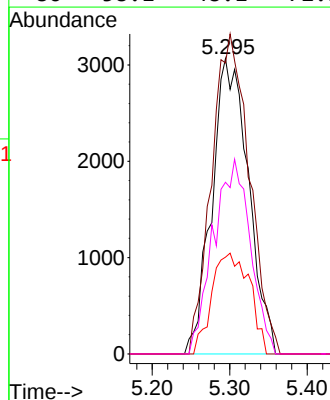
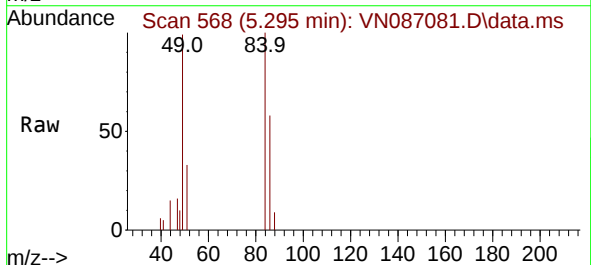
Instrument :
MSVOA_N
ClientSampleId :
MH-C

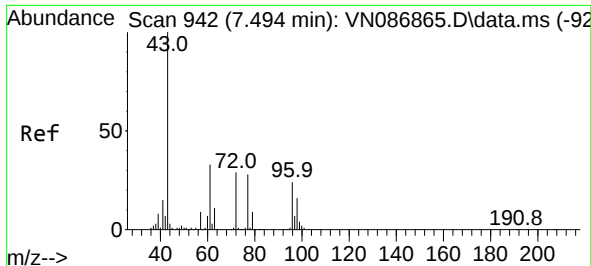
Tgt Ion: 43 Resp: 24199
Ion Ratio Lower Upper
43 100
74 27.7 20.7 31.1



#20
Methylene Chloride
Concen: 3.894 ug/l
RT: 5.295 min Scan# 568
Delta R.T. -0.000 min
Lab File: VN087081.D
Acq: 18 Jun 2025 13:34

Tgt Ion: 84 Resp: 10072
Ion Ratio Lower Upper
84 100
49 98.5 90.5 135.7
51 32.8 28.5 42.7
86 58.1 48.1 72.1

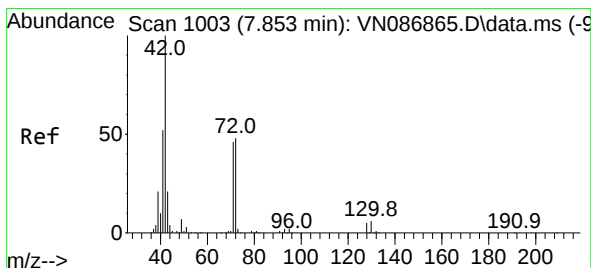
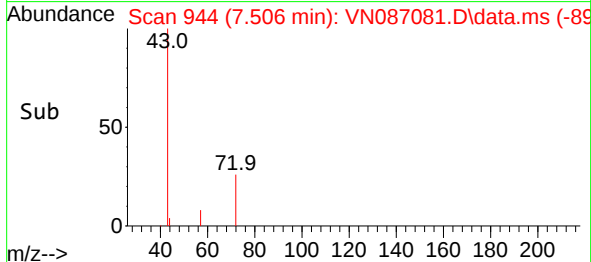
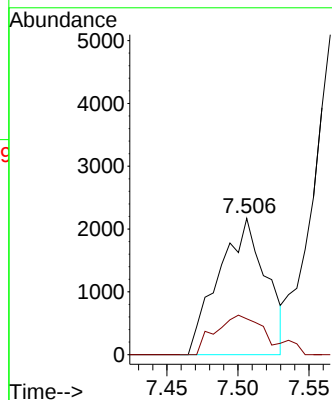
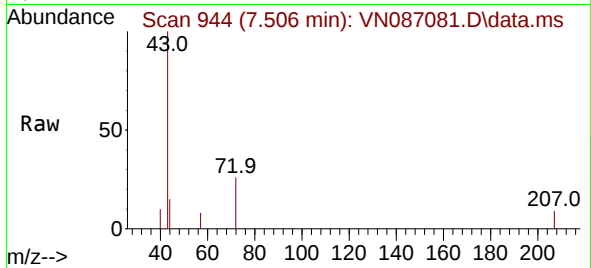




#25
2-Butanone
Concen: 2.235 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN087081.D
Acq: 18 Jun 2025 13:34

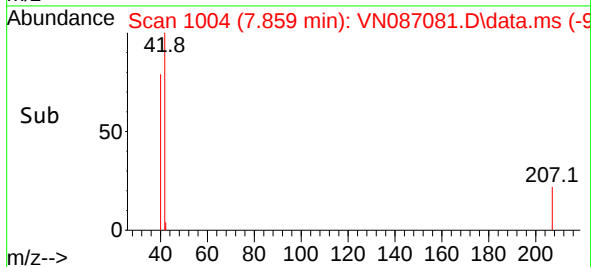
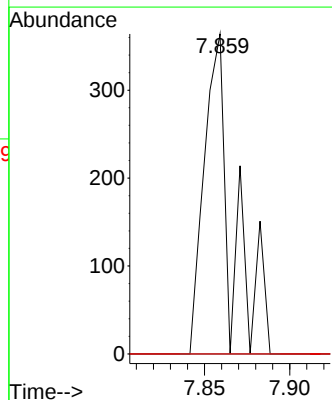
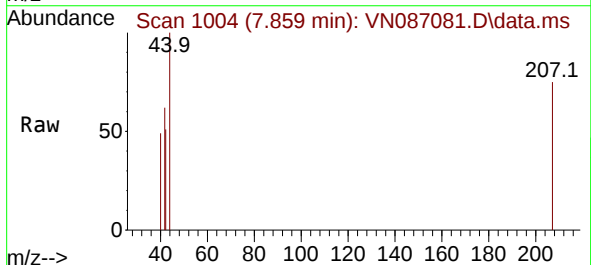
Instrument :
MSVOA_N
ClientSampleId :
MH-C

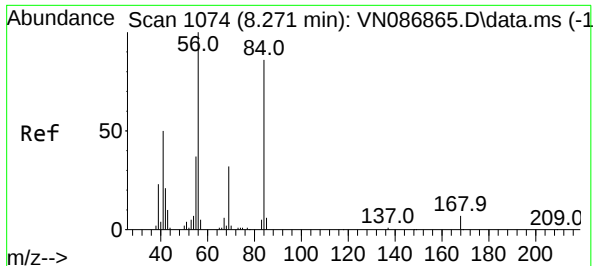
Tgt Ion: 43 Resp: 5019
Ion Ratio Lower Upper
43 100
72 26.3 23.0 34.6



#29
Tetrahydrofuran
Concen: 0.286 ug/l
RT: 7.859 min Scan# 1004
Delta R.T. 0.006 min
Lab File: VN087081.D
Acq: 18 Jun 2025 13:34

Tgt Ion: 42 Resp: 419
Ion Ratio Lower Upper
42 100
72 0.0 37.8 56.6#
71 0.0 35.6 53.4#

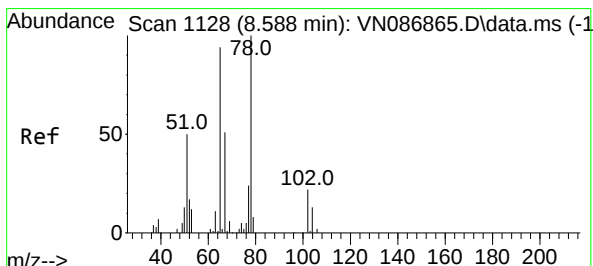
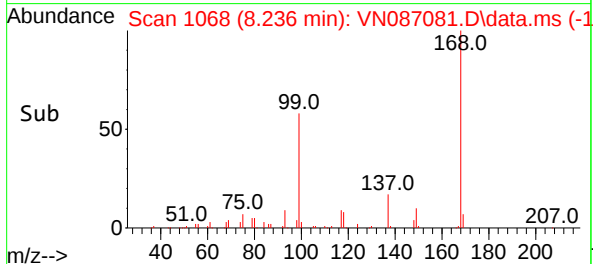
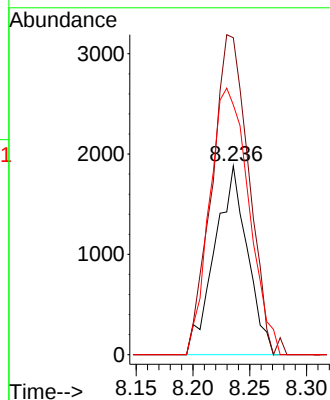
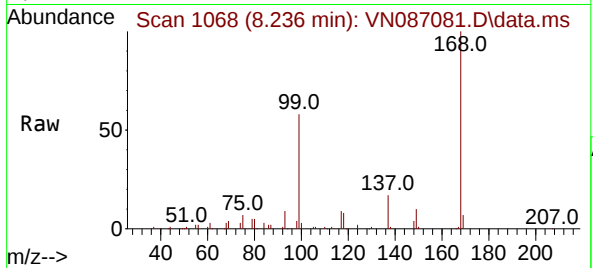




#31
Cyclohexane
Concen: 0.888 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.035 min
Lab File: VN087081.D
Acq: 18 Jun 2025 13:34

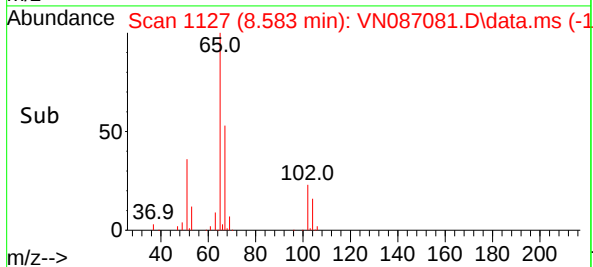
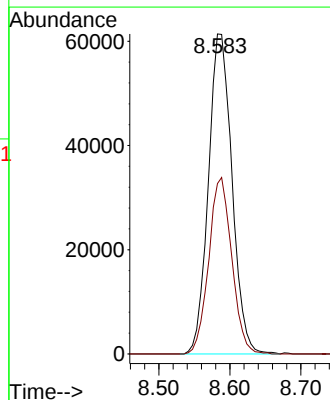
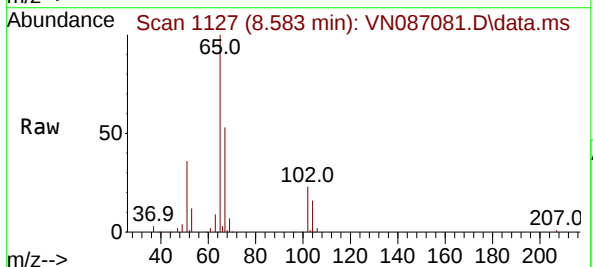
Instrument :
MSVOA_N
ClientSampleId :
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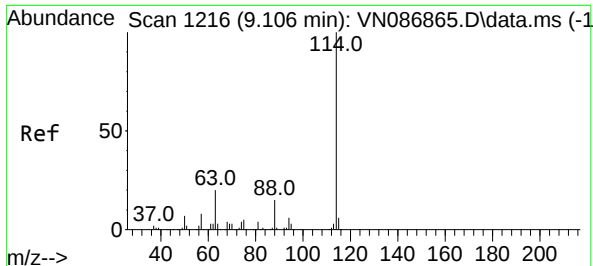
Tgt Ion: 56 Resp: 3754
Ion Ratio Lower Upper
56 100
69 167.9 25.4 38.0#
84 132.3 68.8 103.2#



#33
1,2-Dichloroethane-d4
Concen: 54.393 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN087081.D
Acq: 18 Jun 2025 13:34

Tgt Ion: 65 Resp: 141721
Ion Ratio Lower Upper
65 100
67 53.8 0.0 105.6

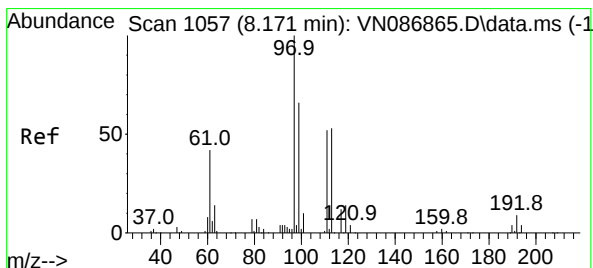
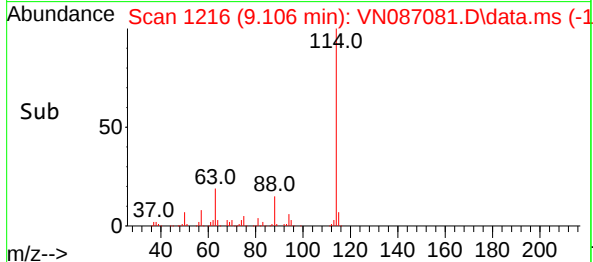
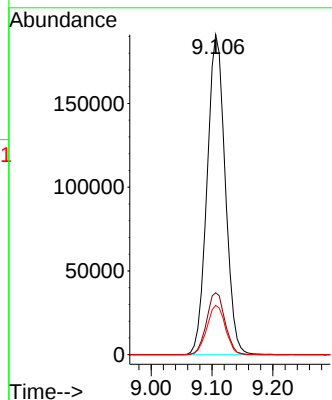
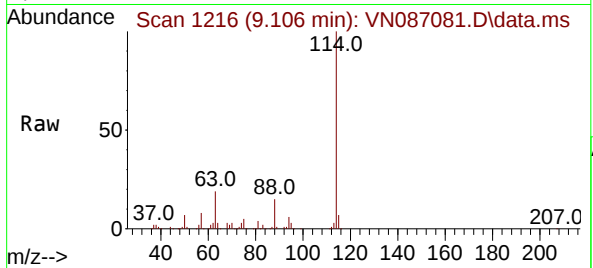




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087081.D
Acq: 18 Jun 2025 13:34

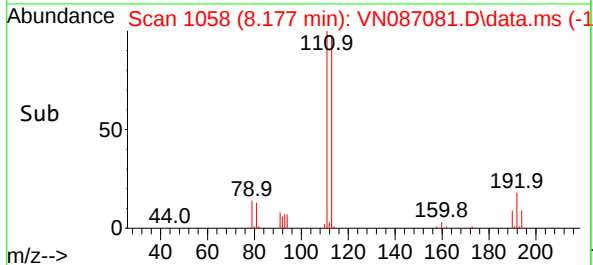
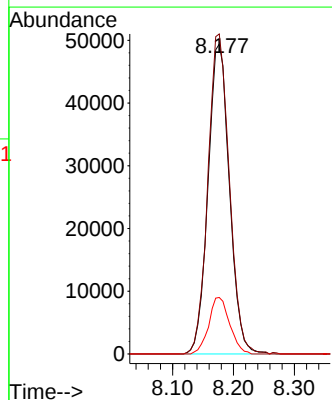
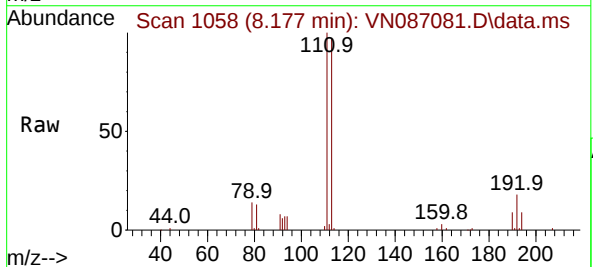
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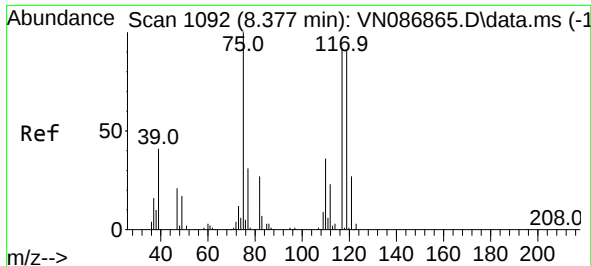
Tgt Ion:114 Resp: 394387
Ion Ratio Lower Upper
114 100
63 19.4 0.0 39.6
88 15.4 0.0 30.2



#35
Dibromofluoromethane
Concen: 51.516 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN087081.D
Acq: 18 Jun 2025 13:34

Tgt Ion:113 Resp: 120405
Ion Ratio Lower Upper
113 100
111 103.4 84.2 126.2
192 17.8 14.2 21.4

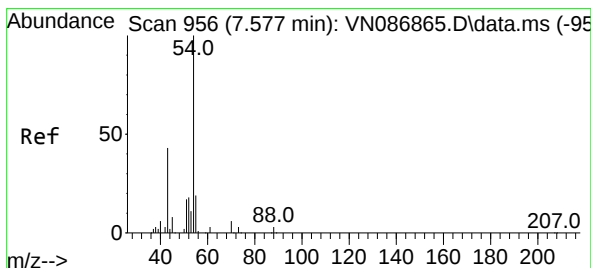
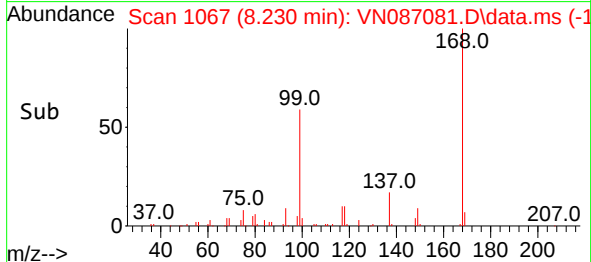
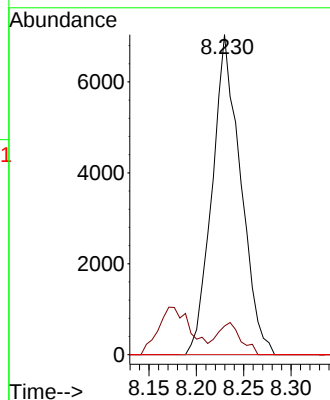
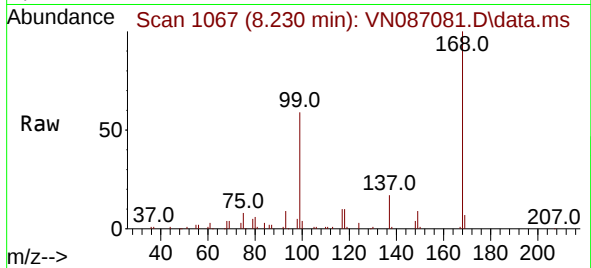




#36
1,1-Dichloropropene
Concen: 4.222 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN087081.D
Acq: 18 Jun 2025 13:34

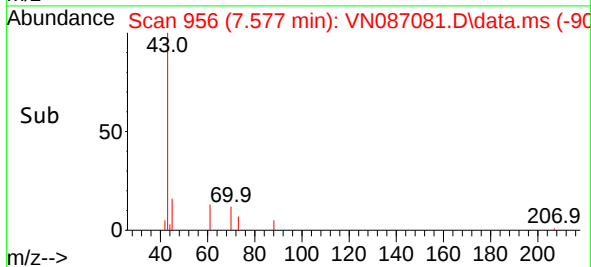
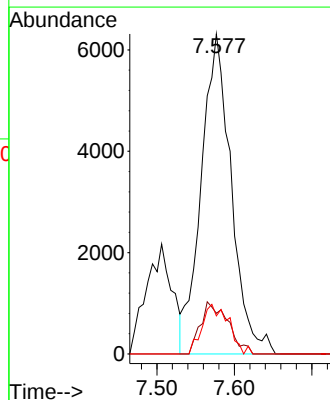
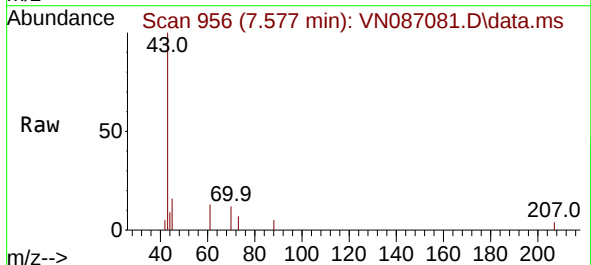
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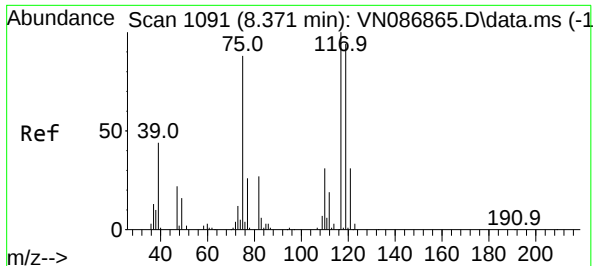
Tgt Ion: 75 Resp: 14703
Ion Ratio Lower Upper
75 100
110 8.3 17.6 52.9#
77 0.0 25.3 37.9#



#37
Ethyl Acetate
Concen: 3.830 ug/l
RT: 7.577 min Scan# 956
Delta R.T. -0.000 min
Lab File: VN087081.D
Acq: 18 Jun 2025 13:34

Tgt Ion: 43 Resp: 16981
Ion Ratio Lower Upper
43 100
61 14.9 12.1 18.1
70 13.7 9.8 14.6

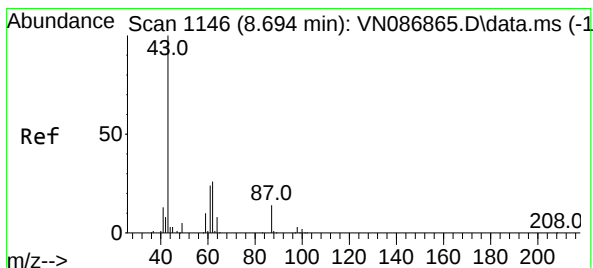
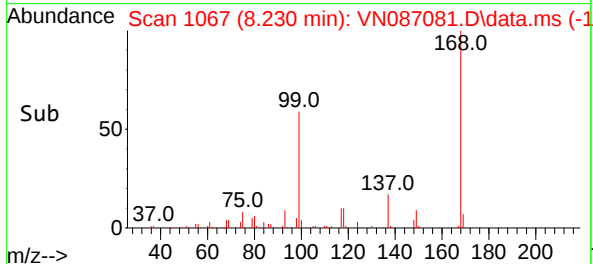
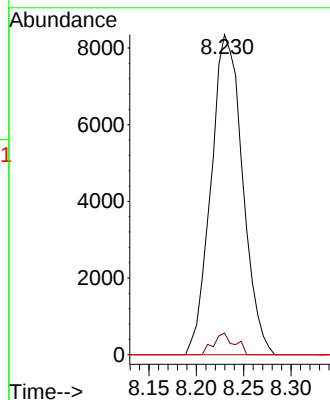
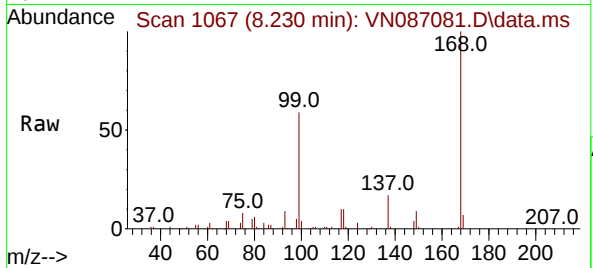




#38
Carbon Tetrachloride
Concen: 5.660 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN087081.D
Acq: 18 Jun 2025 13:34

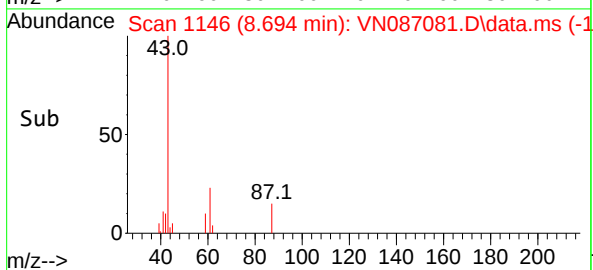
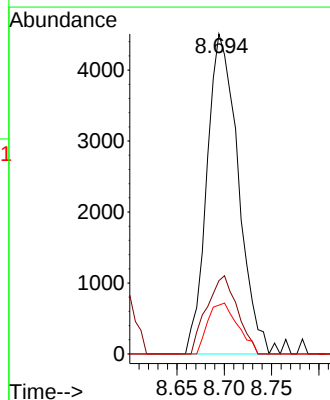
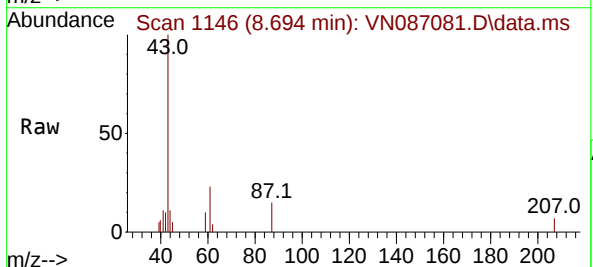
Instrument :
MSVOA_N
ClientSampleId :
MH-C

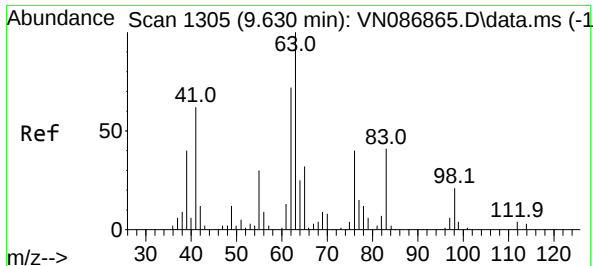
Tgt Ion:117 Resp: 19352
Ion Ratio Lower Upper
117 100
119 6.8 75.0 112.6#
121 0.0 24.9 37.3#



#43
Isopropyl Acetate
Concen: 1.459 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. -0.000 min
Lab File: VN087081.D
Acq: 18 Jun 2025 13:34

Tgt Ion: 43 Resp: 10380
Ion Ratio Lower Upper
43 100
61 23.9 22.1 33.1
87 15.2 11.8 17.6





#45

1,2-Dichloropropane

Concen: 0.514 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.118 min

Lab File: VN087081.D

Acq: 18 Jun 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

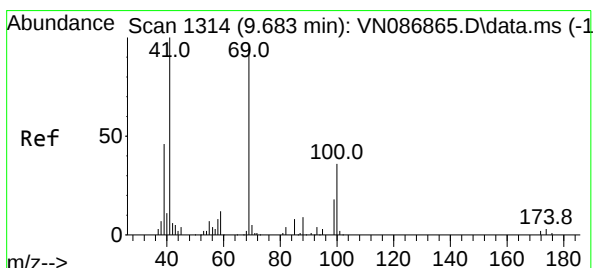
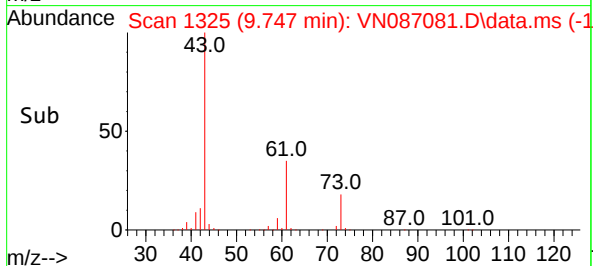
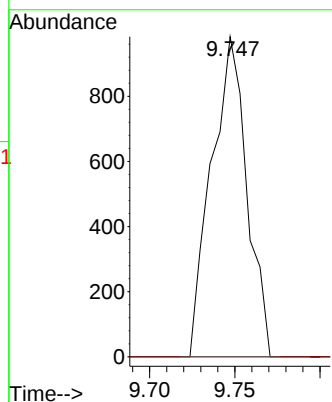
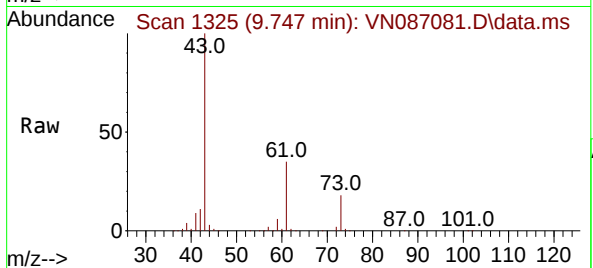
MH-C

Tgt Ion: 63 Resp: 1424

Ion Ratio Lower Upper

63 100

65 0.0 25.5 38.3#



#48

Methyl methacrylate

Concen: 25.877 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.065 min

Lab File: VN087081.D

Acq: 18 Jun 2025 13:34

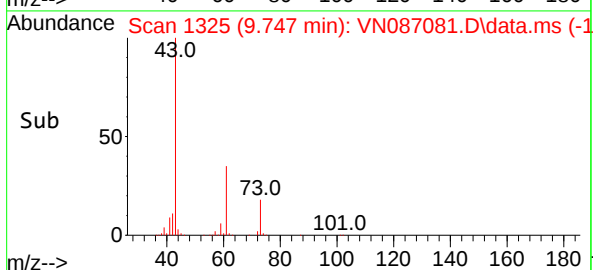
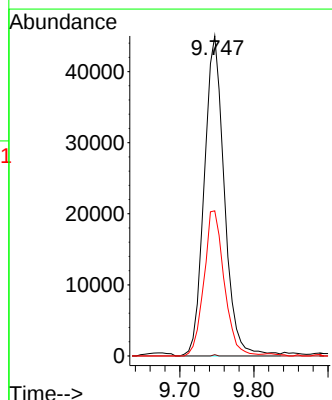
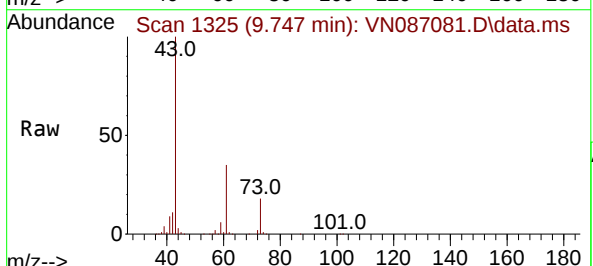
Tgt Ion: 41 Resp: 84751

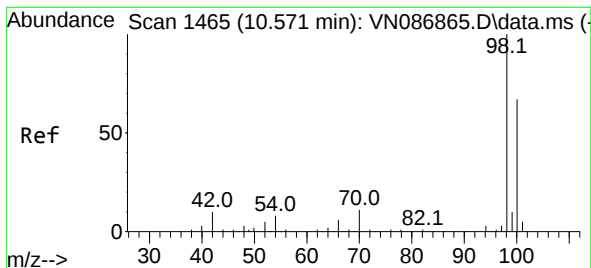
Ion Ratio Lower Upper

41 100

69 0.1 74.6 112.0#

39 45.9 40.2 60.4





#50

Toluene-d8

Concen: 52.862 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN087081.D

Acq: 18 Jun 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

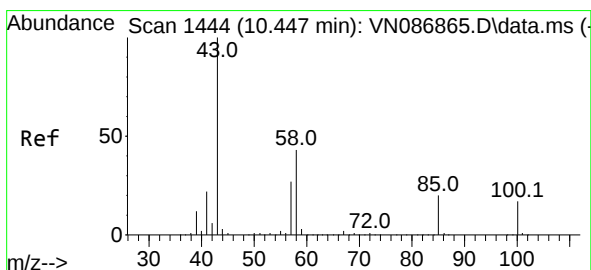
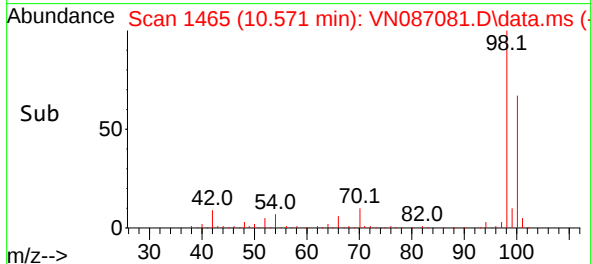
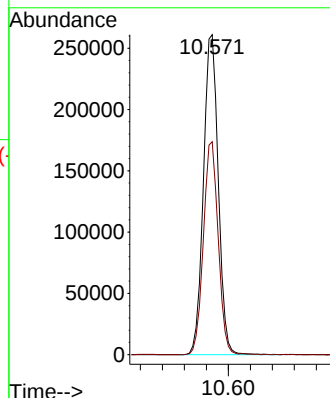
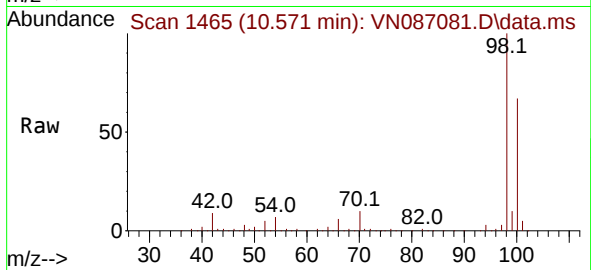
MH-C

Tgt Ion: 98 Resp: 489109

Ion Ratio Lower Upper

98 100

100 66.4 53.4 80.0



#51

4-Methyl-2-Pentanone

Concen: 22.302 ug/l

RT: 10.359 min Scan# 1429

Delta R.T. -0.088 min

Lab File: VN087081.D

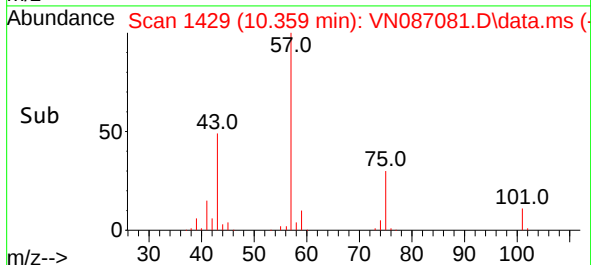
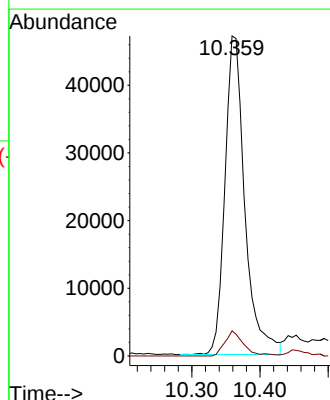
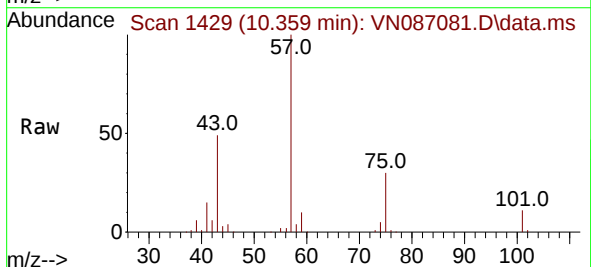
Acq: 18 Jun 2025 13:34

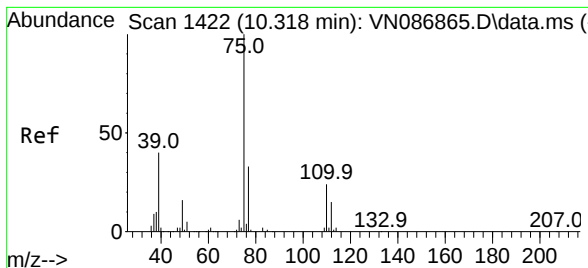
Tgt Ion: 43 Resp: 95536

Ion Ratio Lower Upper

43 100

58 7.5 34.2 51.4#

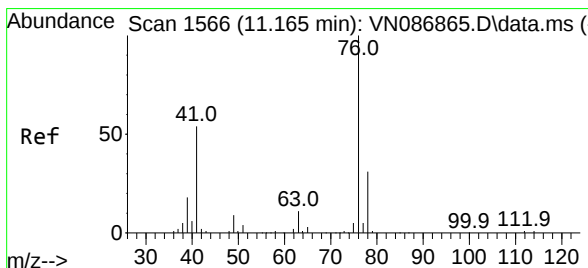
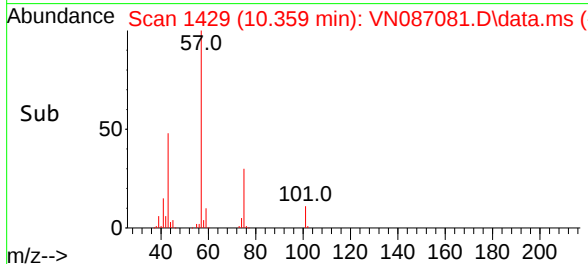
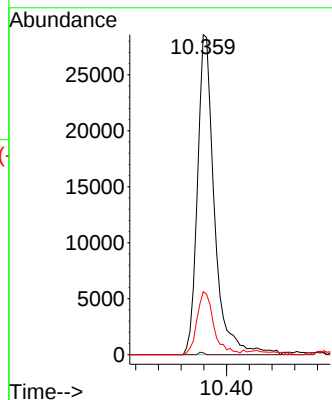
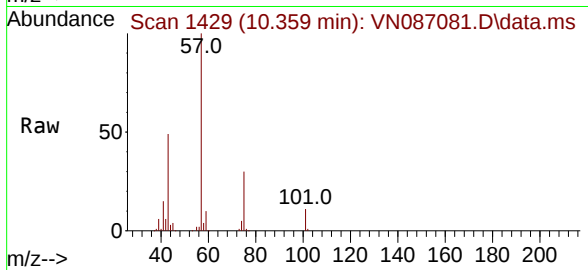




#54
 cis-1,3-Dichloropropene
 Concen: 13.124 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.041 min
 Lab File: VN087081.D
 Acq: 18 Jun 2025 13:34

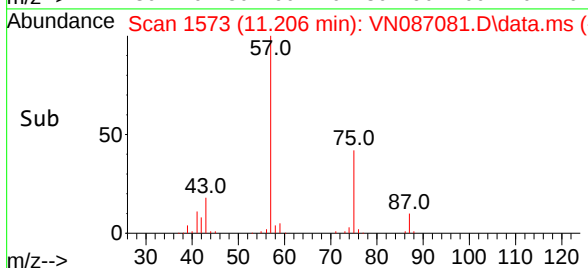
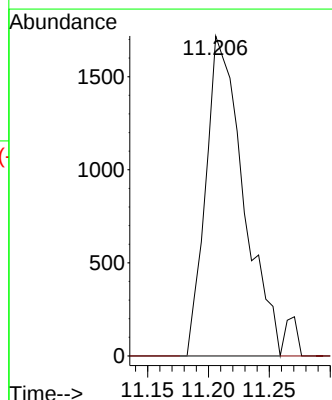
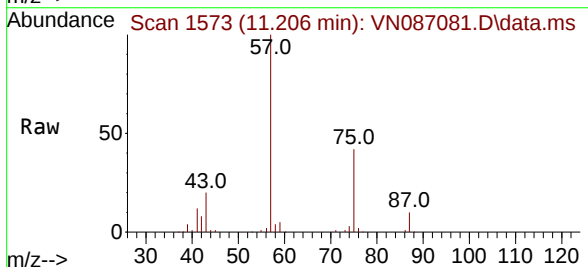
Instrument :
 MSVOA_N
 ClientSampleId :
 MH-C

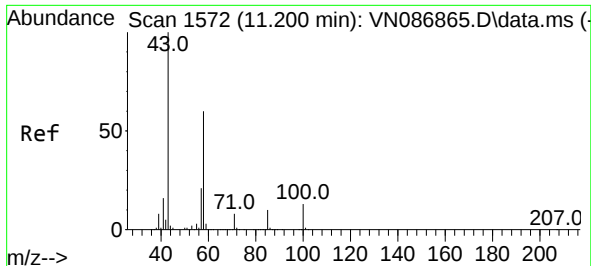
Tgt Ion: 75 Resp: 59456
 Ion Ratio Lower Upper
 75 100
 77 0.6 26.2 39.4#
 39 19.7 32.3 48.5#



#57
 1,3-Dichloropropane
 Concen: 0.795 ug/l
 RT: 11.206 min Scan# 1573
 Delta R.T. 0.041 min
 Lab File: VN087081.D
 Acq: 18 Jun 2025 13:34

Tgt Ion: 76 Resp: 3691
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.3 37.9#

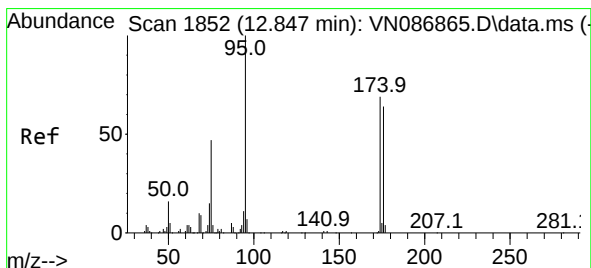
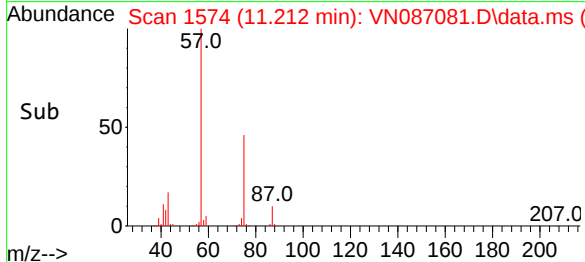
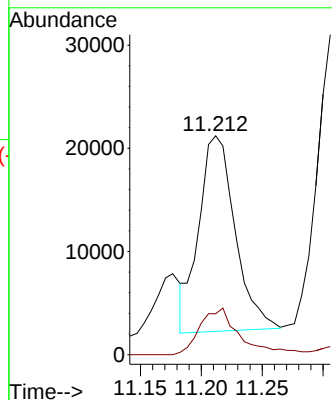
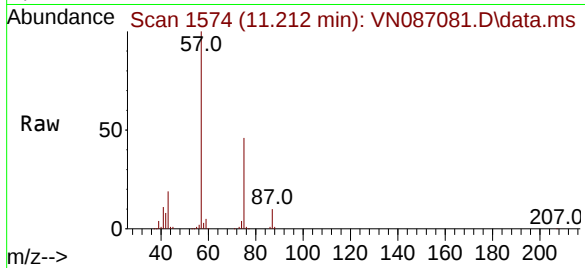




#59
2-Hexanone
Concen: 14.272 ug/l
RT: 11.212 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN087081.D
Acq: 18 Jun 2025 13:34

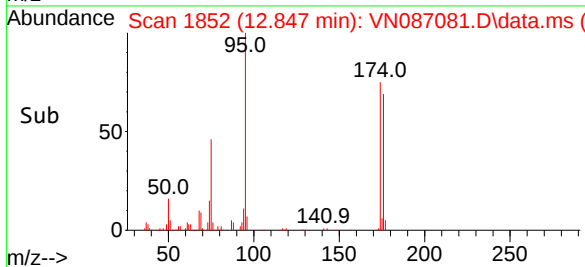
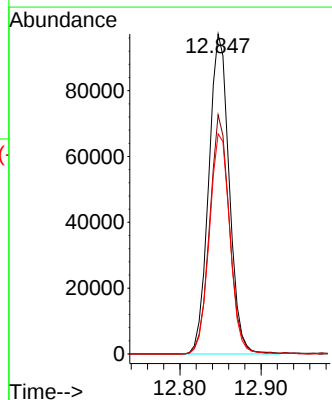
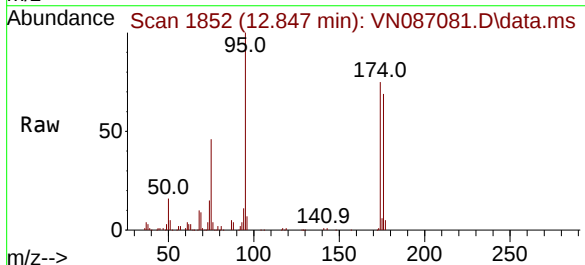
Instrument :
MSVOA_N
ClientSampleId :
MH-C

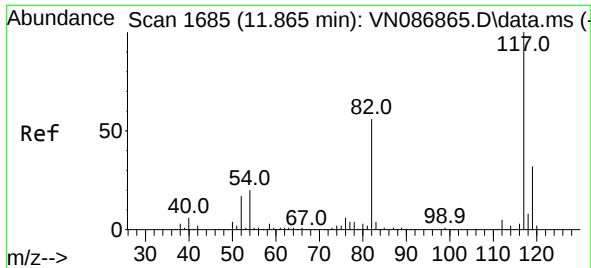
Tgt Ion: 43 Resp: 39381
Ion Ratio Lower Upper
43 100
58 26.0 30.4 91.3#



#62
4-Bromofluorobenzene
Concen: 49.380 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087081.D
Acq: 18 Jun 2025 13:34

Tgt Ion: 95 Resp: 169746
Ion Ratio Lower Upper
95 100
174 72.9 0.0 141.8
176 69.2 0.0 132.6

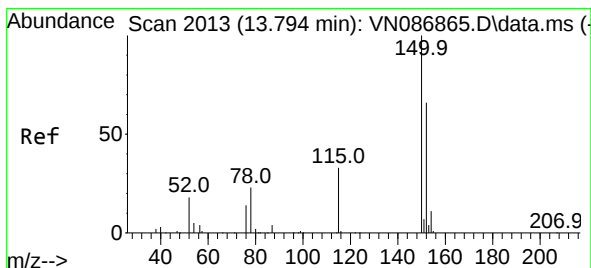
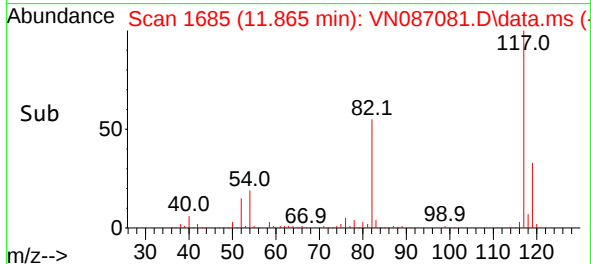
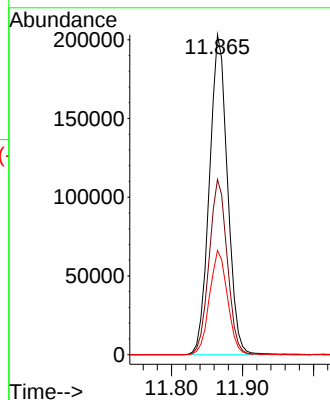
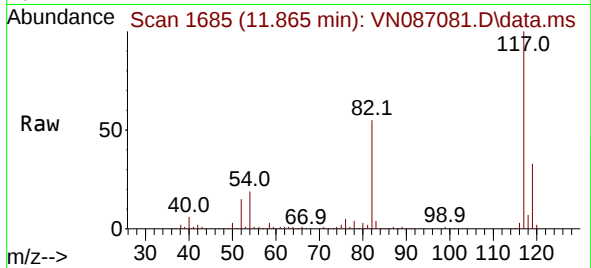




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN087081.D
Acq: 18 Jun 2025 13:34

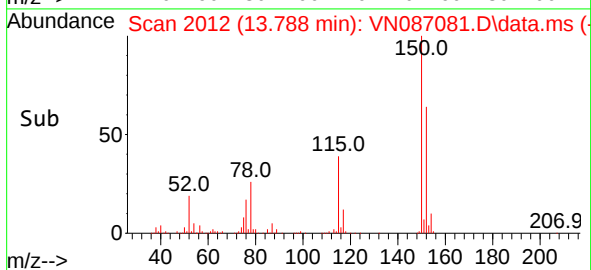
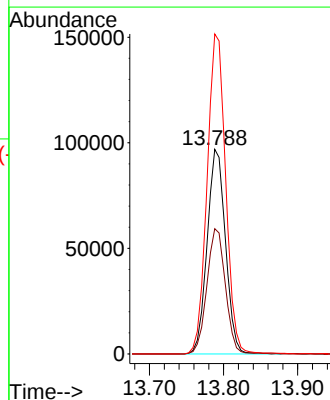
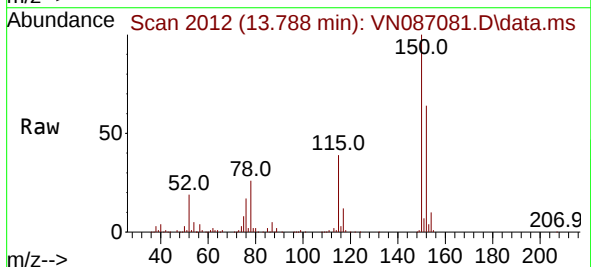
Instrument :
MSVOA_N
ClientSampleId :
MH-C

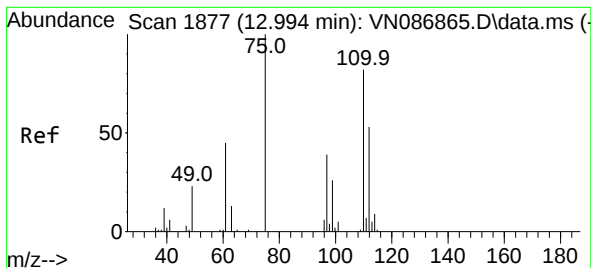
Tgt Ion:117 Resp: 359527
Ion Ratio Lower Upper
117 100
82 54.8 44.6 67.0
119 32.6 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087081.D
Acq: 18 Jun 2025 13:34

Tgt Ion:152 Resp: 166703
Ion Ratio Lower Upper
152 100
115 61.7 30.1 90.5
150 158.4 0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 19.817 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN087081.D

Acq: 18 Jun 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

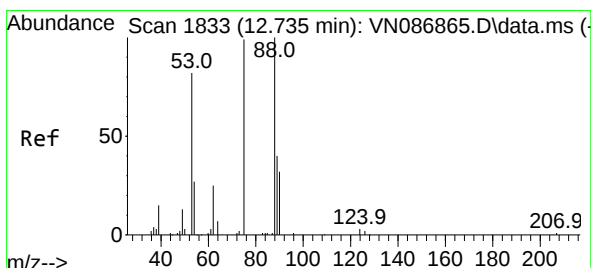
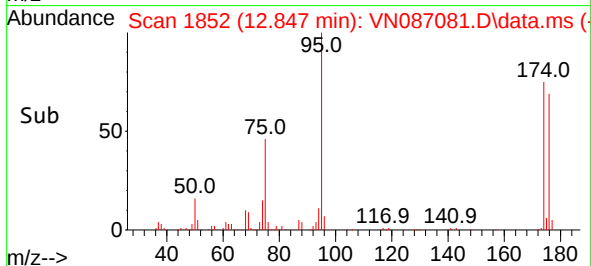
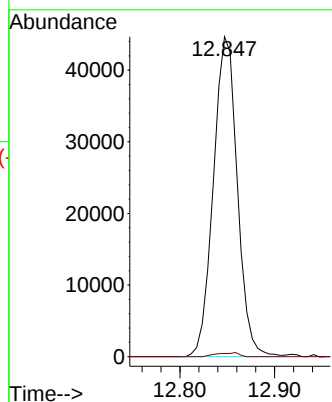
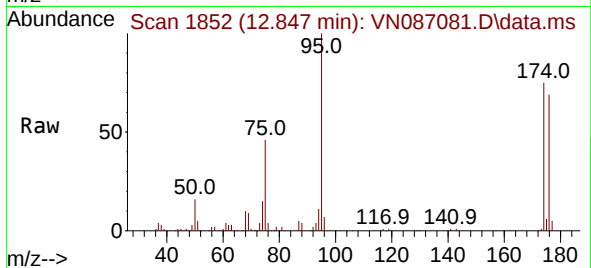
MH-C

Tgt Ion: 75 Resp: 78526

Ion Ratio Lower Upper

75 100

77 1.2 79.3 237.9#



#81

trans-1,4-Dichloro-2-butene

Concen: 45.617 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN087081.D

Acq: 18 Jun 2025 13:34

Tgt Ion: 75 Resp: 78526

Ion Ratio Lower Upper

75 100

53 0.0 66.6 99.8#

89 0.0 36.7 55.1#

