

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
 Data File : VN086847.D
 Acq On : 03 Jun 2025 16:58
 Operator : JC\MD
 Sample : PB168225ZHE#08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168225ZHE#08

Quant Time: Jun 04 02:02:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:46:13 2025
 Response via : Initial Calibration

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

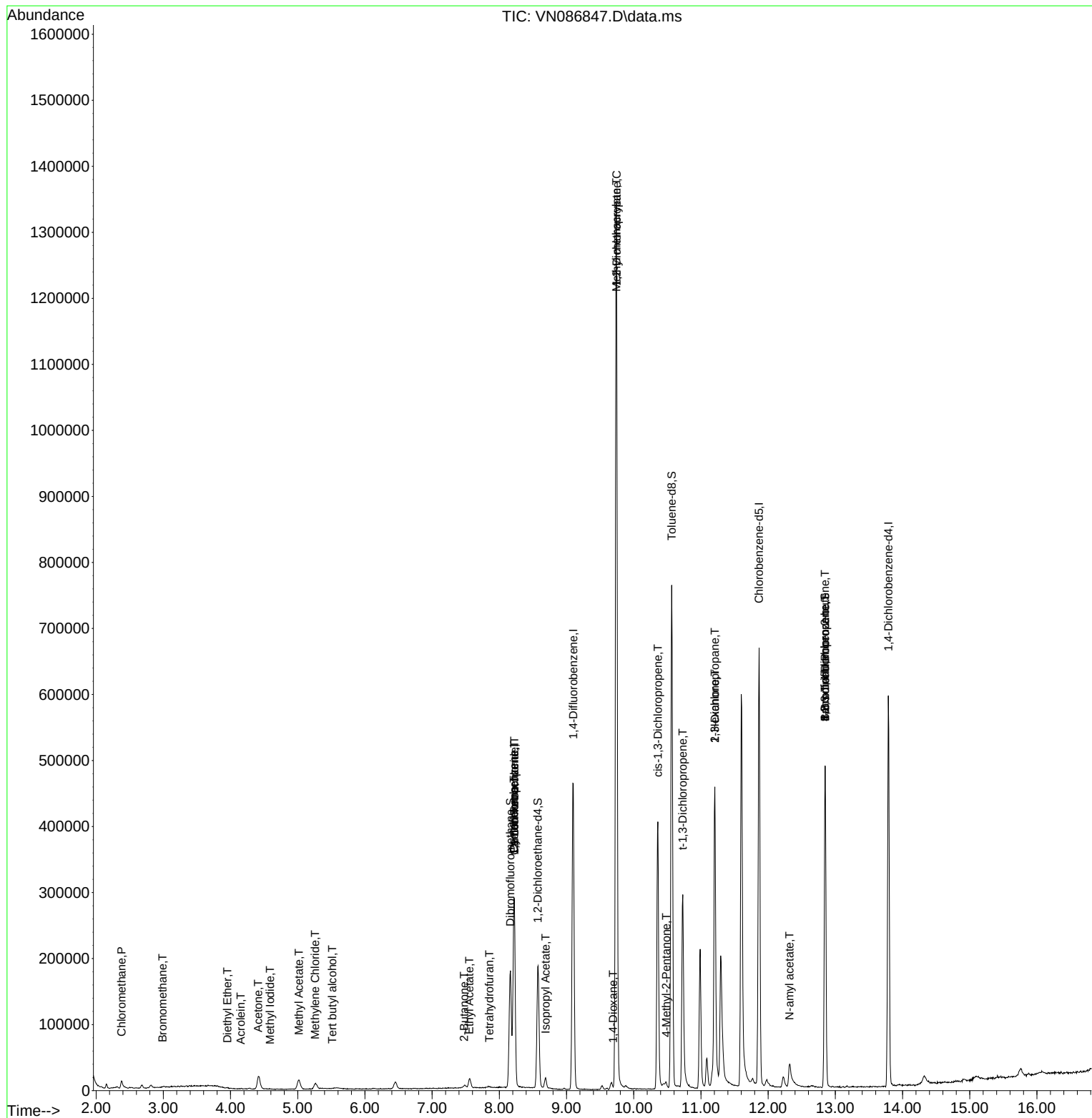
Internal Standards						
1) Pentafluorobenzene	8.218	168	223224	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	433473	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	397183	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	167809	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	153890	49.891	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 99.780%			
35) Dibromofluoromethane	8.165	113	135421	52.458	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.920%			
50) Toluene-d8	10.565	98	546411	51.076	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.160%			
62) 4-Bromofluorobenzene	12.847	95	190849	50.524	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.040%			
Target Compounds						Qvalue
3) Chloromethane	2.377	50	19263	5.283	ug/l	97
5) Bromomethane	2.989	94	571	0.302	ug/l	88
8) Diethyl Ether	3.953	74	486	0.301	ug/l	75
10) Methyl Iodide	4.589	142	757	0.260	ug/l #	43
11) Tert butyl alcohol	5.512	59	505	0.899	ug/l #	73
13) Acrolein	4.153	56	547	0.911	ug/l #	70
16) Acetone	4.412	43	38872	33.690	ug/l	96
18) Methyl Acetate	5.018	43	30909	9.571	ug/l	98
20) Methylene Chloride	5.259	84	7235	2.376	ug/l #	78
25) 2-Butanone	7.477	43	7427	4.165	ug/l	95
29) Tetrahydrofuran	7.853	42	1058	0.909	ug/l #	68
31) Cyclohexane	8.218	56	4437	0.958	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	17299	4.543	ug/l #	49
37) Ethyl Acetate	7.553	43	22442	5.834	ug/l	99
38) Carbon Tetrachloride	8.224	117	22028	5.871	ug/l #	17
43) Isopropyl Acetate	8.688	43	16866	2.187	ug/l	95
45) 1,2-Dichloropropane	9.747	63	1882	0.638	ug/l #	42
48) Methyl methacrylate	9.741	41	113139	37.864	ug/l #	35
49) 1,4-Dioxane	9.694	88	302	4.773	ug/l #	24
51) 4-Methyl-2-Pentanone	10.482	43	7604	1.955	ug/l #	33
53) t-1,3-Dichloropropene	10.730	75	1122	0.258	ug/l #	43
54) cis-1,3-Dichloropropene	10.359	75	86578	18.259	ug/l #	54
57) 1,3-Dichloropropane	11.206	76	5519	1.112	ug/l #	42
59) 2-Hexanone	11.206	43	89225	31.421	ug/l #	42
71) Bromoform	12.847	173	944	0.472	ug/l #	1
74) N-amyl acetate	12.318	43	23226	4.289	ug/l #	50
76) 1,2,3-Trichloropropane	12.847	75	90879	23.946	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	90879	60.432	ug/l #	15

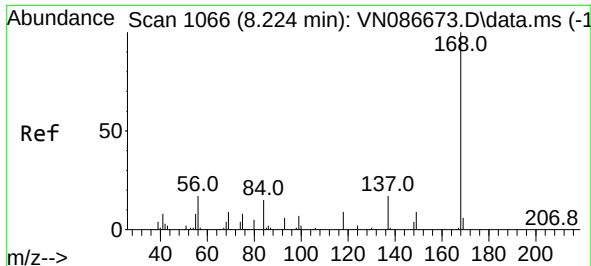
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086847.D
Acq On : 03 Jun 2025 16:58
Operator : JC\MD
Sample : PB168225ZHE#08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#08

Quant Time: Jun 04 02:02:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

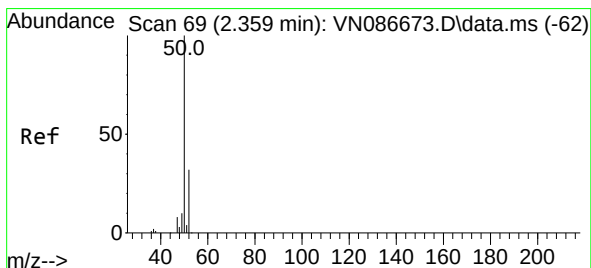
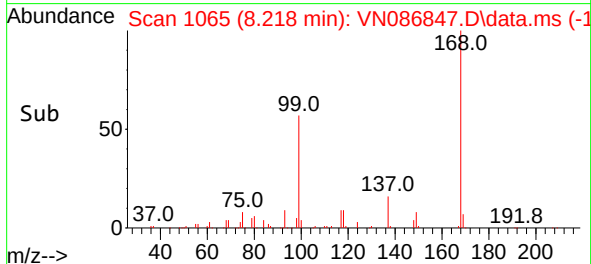
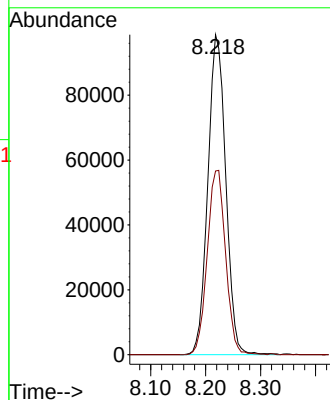
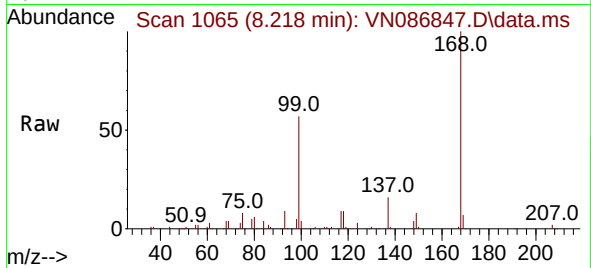




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086847.D
Acq: 03 Jun 2025 16:58

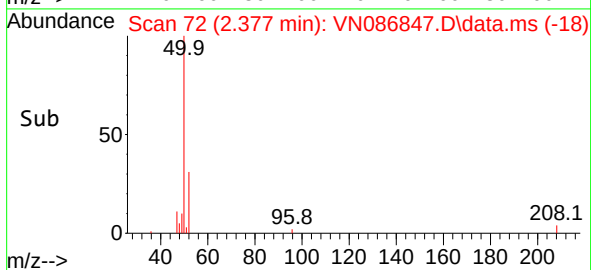
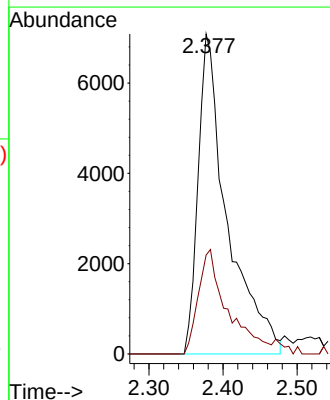
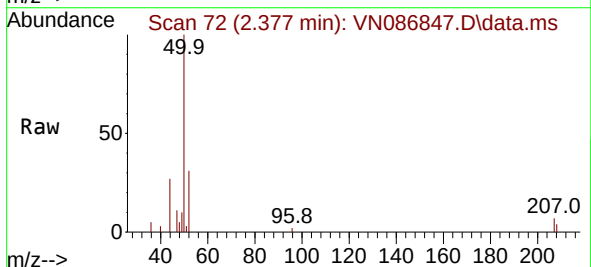
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#08

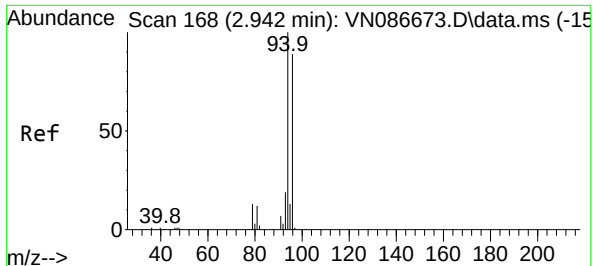
Tgt Ion:168 Resp: 223224
Ion Ratio Lower Upper
168 100
99 57.4 47.0 70.4



#3
Chloromethane
Concen: 5.283 ug/l
RT: 2.377 min Scan# 72
Delta R.T. 0.018 min
Lab File: VN086847.D
Acq: 03 Jun 2025 16:58

Tgt Ion: 50 Resp: 19263
Ion Ratio Lower Upper
50 100
52 30.9 25.9 38.9

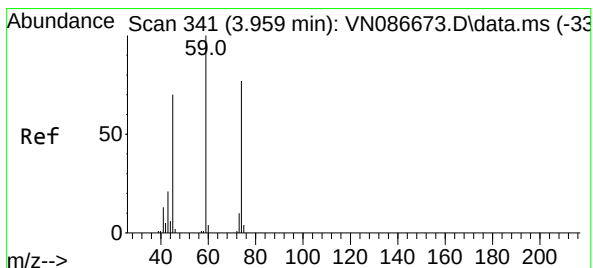
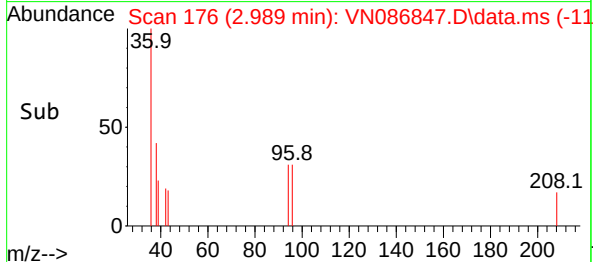
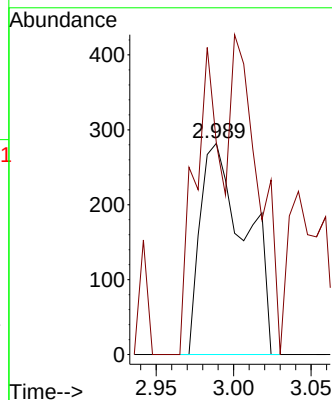
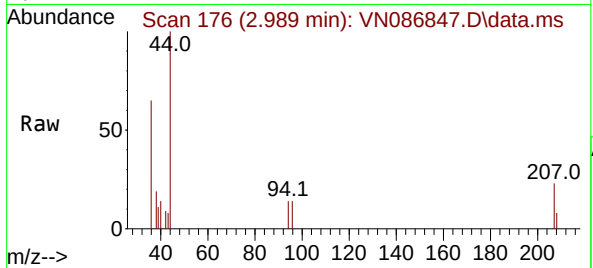




#5
Bromomethane
Concen: 0.302 ug/l
RT: 2.989 min Scan# 11
Delta R.T. 0.047 min
Lab File: VN086847.D
Acq: 03 Jun 2025 16:58

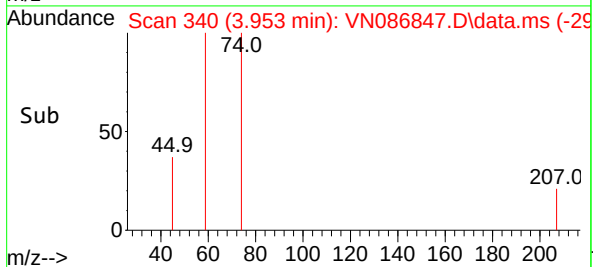
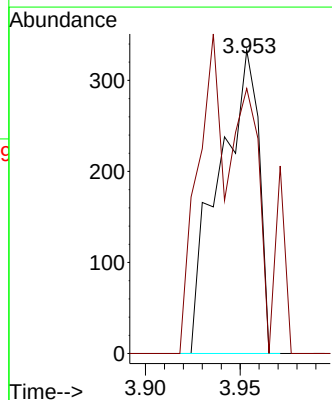
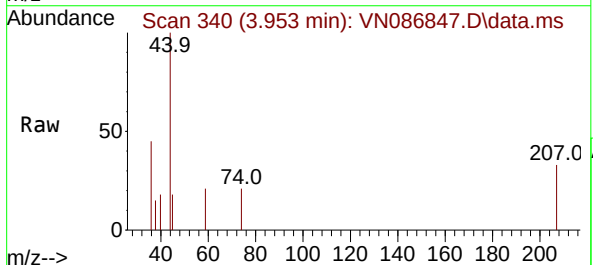
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#08

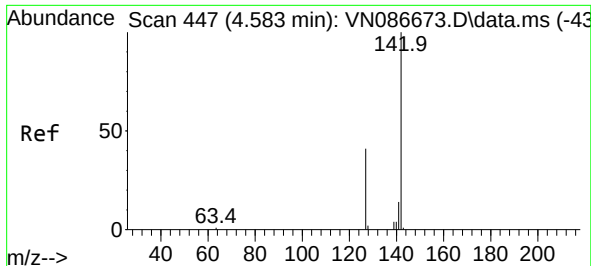
Tgt Ion: 94 Resp: 571
Ion Ratio Lower Upper
94 100
96 100.0 71.2 106.8



#8
Diethyl Ether
Concen: 0.301 ug/l
RT: 3.953 min Scan# 340
Delta R.T. -0.006 min
Lab File: VN086847.D
Acq: 03 Jun 2025 16:58

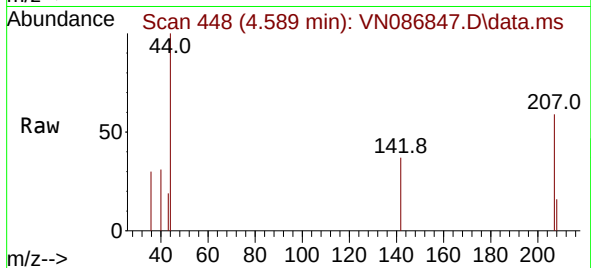
Tgt Ion: 74 Resp: 486
Ion Ratio Lower Upper
74 100
45 66.5 45.0 135.0



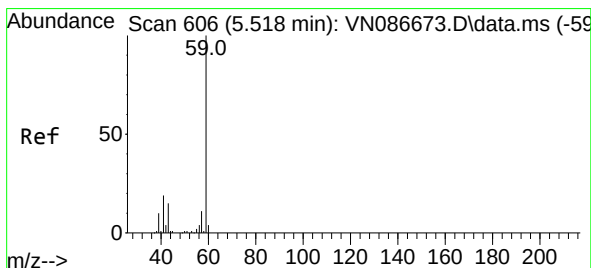
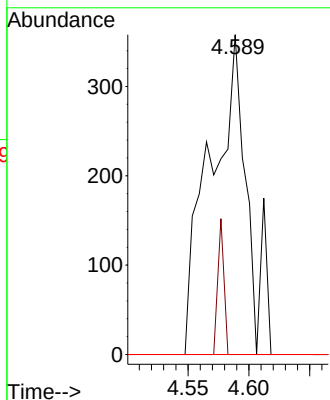
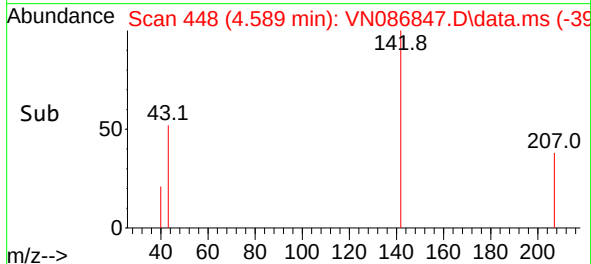


#10
Methyl Iodide
Concen: 0.260 ug/l
RT: 4.589 min Scan# 447
Delta R.T. 0.006 min
Lab File: VN086847.D
Acq: 03 Jun 2025 16:58

Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#08

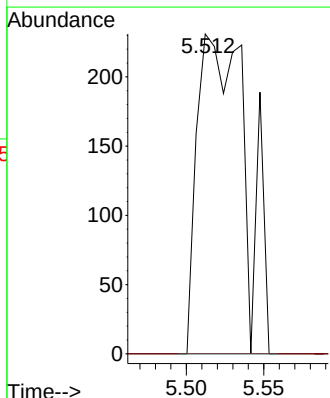
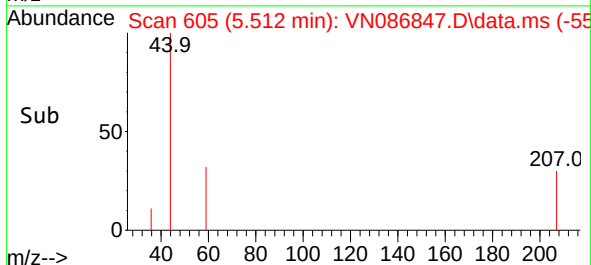
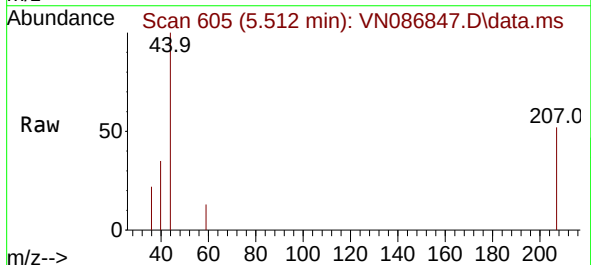


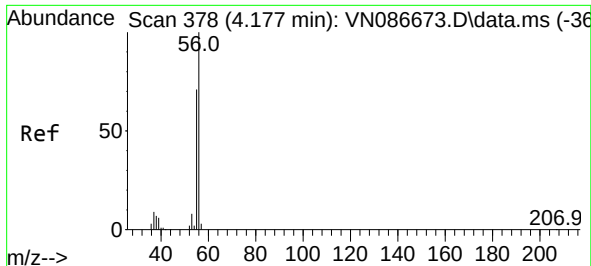
Tgt Ion:142 Resp: 757
Ion Ratio Lower Upper
142 100
127 0.0 32.4 48.6#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 0.899 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.006 min
Lab File: VN086847.D
Acq: 03 Jun 2025 16:58

Tgt Ion: 59 Resp: 505
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

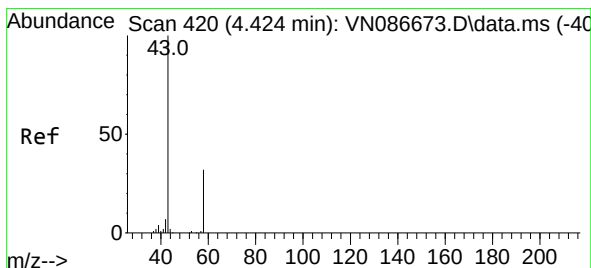
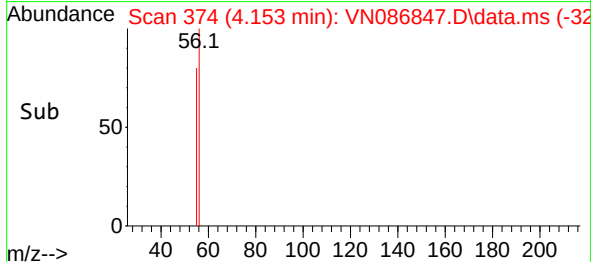
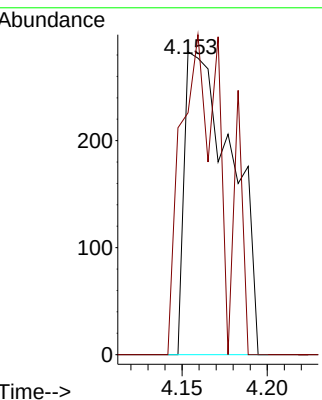
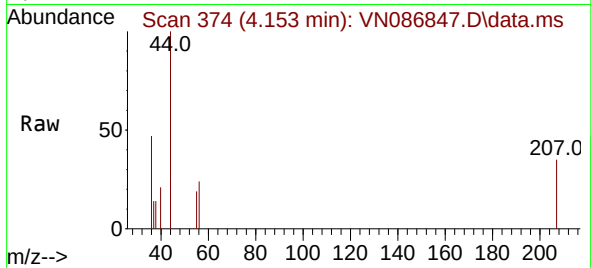




#13
Acrolein
Concen: 0.911 ug/l
RT: 4.153 min Scan# 31
Delta R.T. -0.024 min
Lab File: VN086847.D
Acq: 03 Jun 2025 16:58

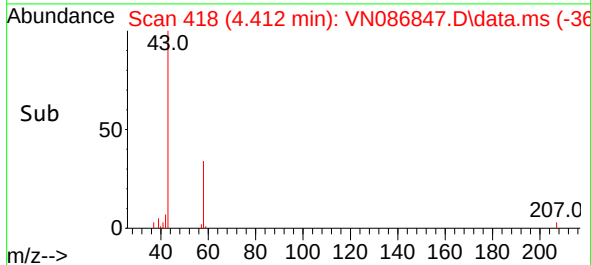
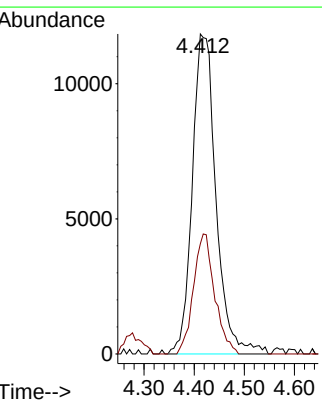
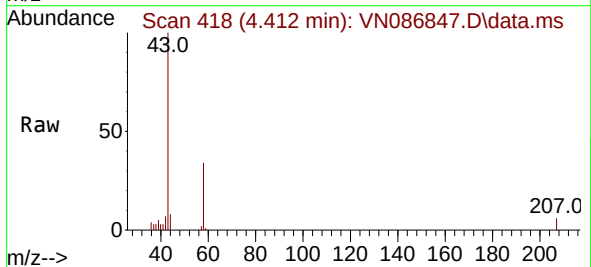
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#08

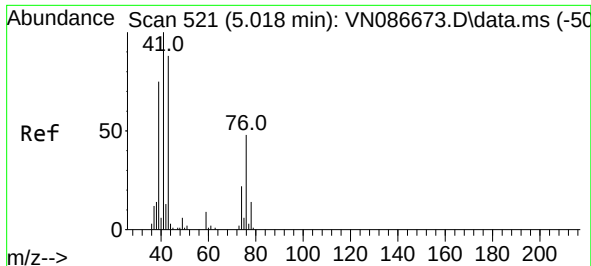
Tgt Ion: 56 Resp: 547
Ion Ratio Lower Upper
56 100
55 94.3 55.7 83.5#



#16
Acetone
Concen: 33.690 ug/l
RT: 4.412 min Scan# 418
Delta R.T. -0.012 min
Lab File: VN086847.D
Acq: 03 Jun 2025 16:58

Tgt Ion: 43 Resp: 38872
Ion Ratio Lower Upper
43 100
58 34.5 25.8 38.6

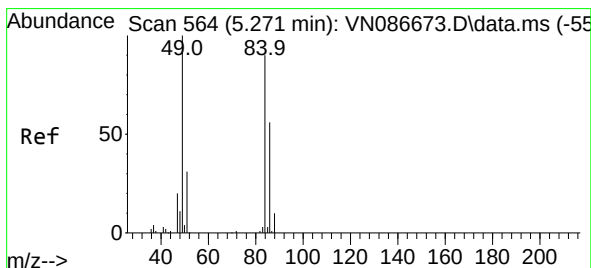
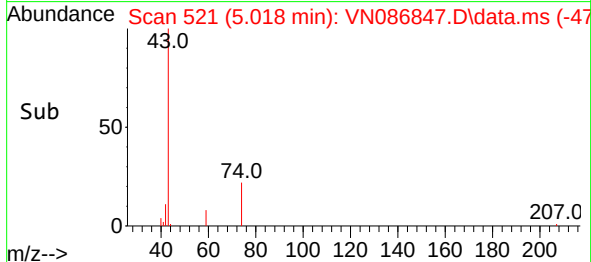
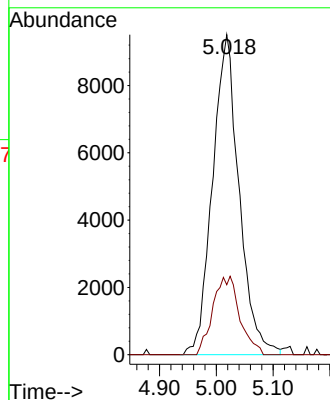
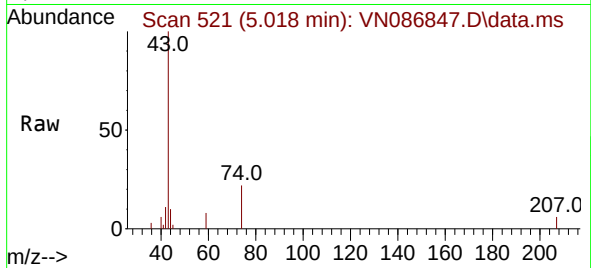




#18
Methyl Acetate
Concen: 9.571 ug/l
RT: 5.018 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN086847.D
Acq: 03 Jun 2025 16:58

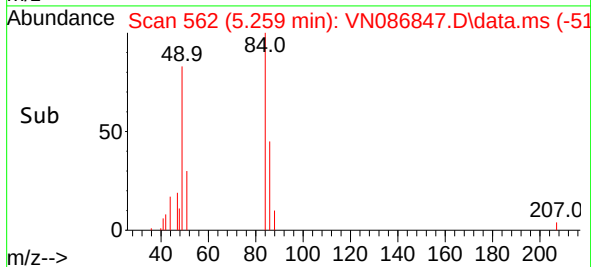
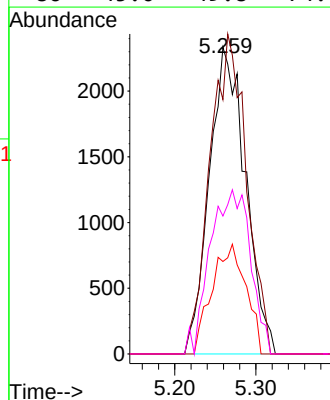
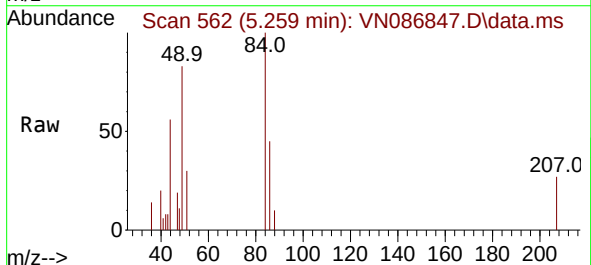
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#08

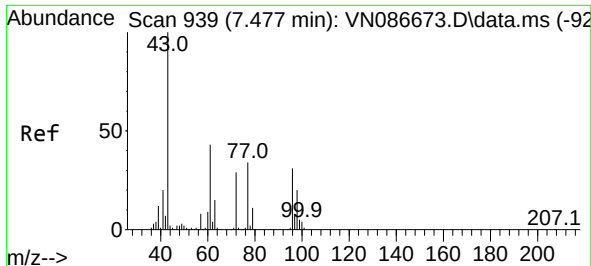
Tgt Ion: 43 Resp: 30909
Ion Ratio Lower Upper
43 100
74 24.7 20.5 30.7



#20
Methylene Chloride
Concen: 2.376 ug/l
RT: 5.259 min Scan# 562
Delta R.T. -0.012 min
Lab File: VN086847.D
Acq: 03 Jun 2025 16:58

Tgt Ion: 84 Resp: 7235
Ion Ratio Lower Upper
84 100
49 82.9 88.8 133.2#
51 30.2 27.8 41.6
86 45.0 49.8 74.6#

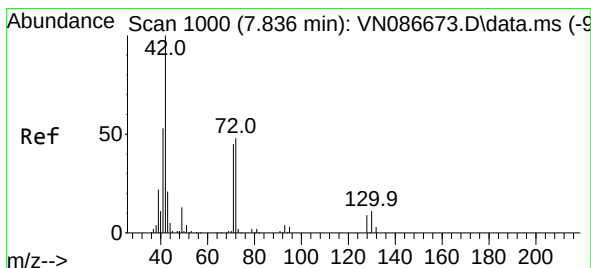
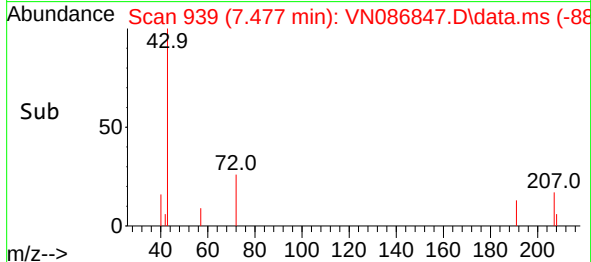
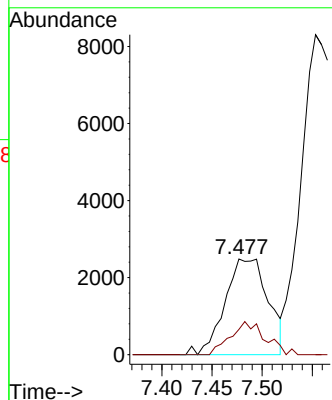
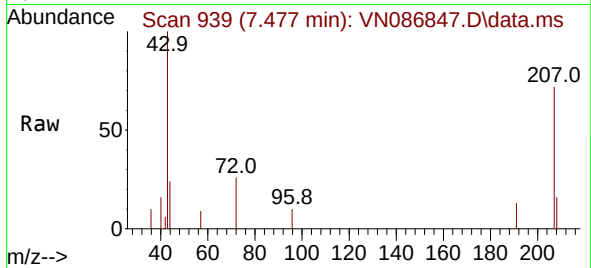




#25
2-Butanone
Concen: 4.165 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN086847.D
Acq: 03 Jun 2025 16:58

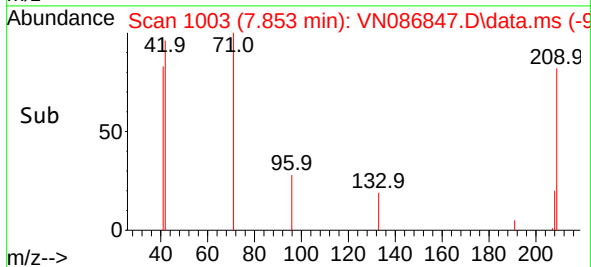
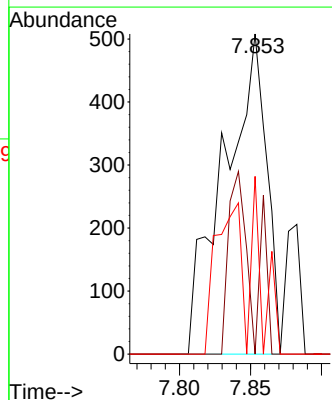
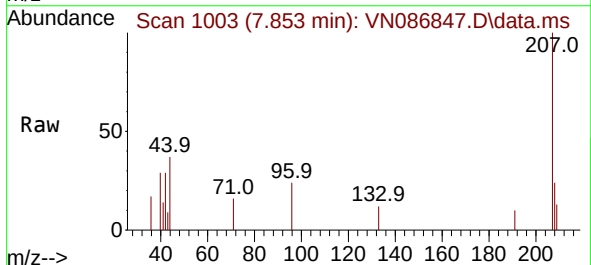
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#08

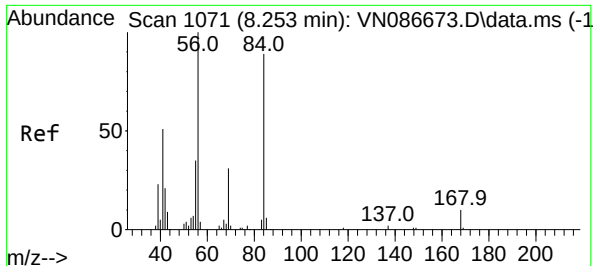
Tgt Ion: 43 Resp: 7427
Ion Ratio Lower Upper
43 100
72 26.4 23.1 34.7



#29
Tetrahydrofuran
Concen: 0.909 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.018 min
Lab File: VN086847.D
Acq: 03 Jun 2025 16:58

Tgt Ion: 42 Resp: 1058
Ion Ratio Lower Upper
42 100
72 23.3 38.7 58.1#
71 27.9 36.2 54.4#

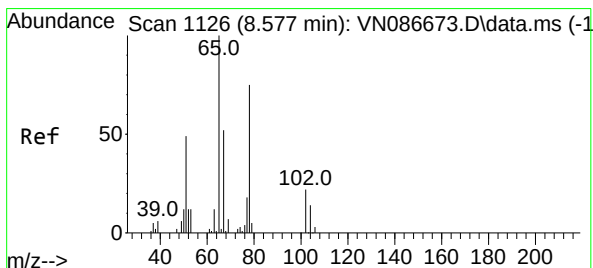
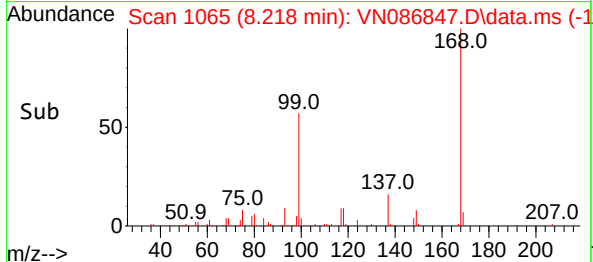
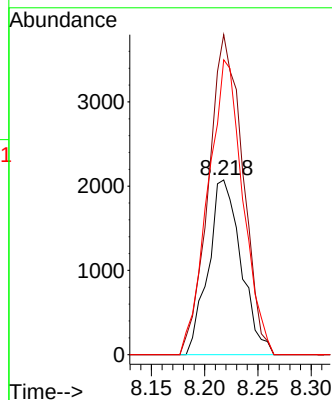
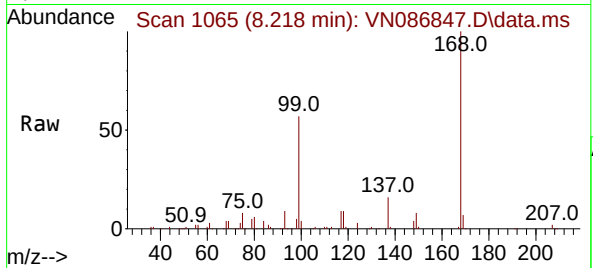




#31
Cyclohexane
Concen: 0.958 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN086847.D
Acq: 03 Jun 2025 16:58

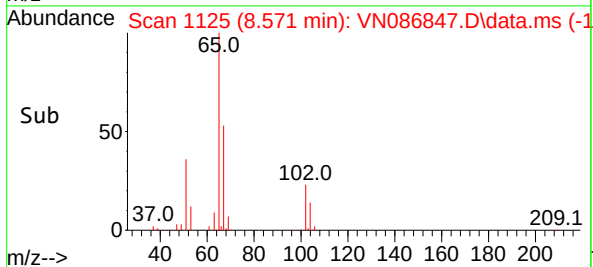
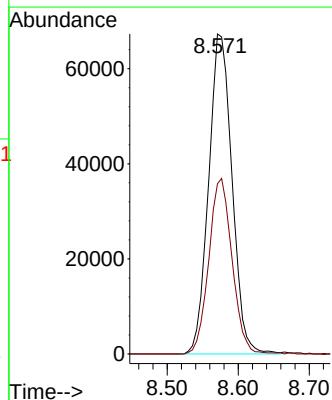
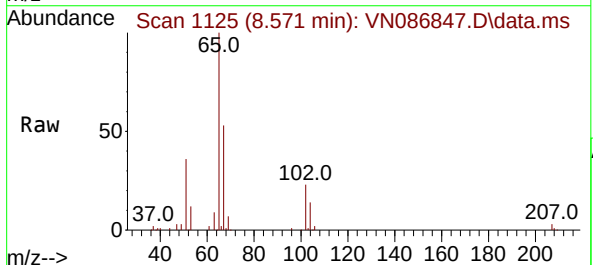
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#08

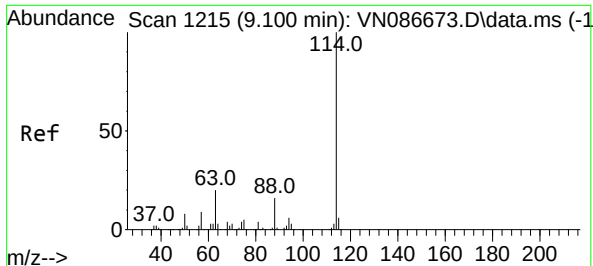
Tgt Ion: 56 Resp: 4437
Ion Ratio Lower Upper
56 100
69 183.1 25.0 37.6#
84 168.8 71.0 106.4#



#33
1,2-Dichloroethane-d4
Concen: 49.891 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. -0.006 min
Lab File: VN086847.D
Acq: 03 Jun 2025 16:58

Tgt Ion: 65 Resp: 153890
Ion Ratio Lower Upper
65 100
67 54.5 0.0 106.4

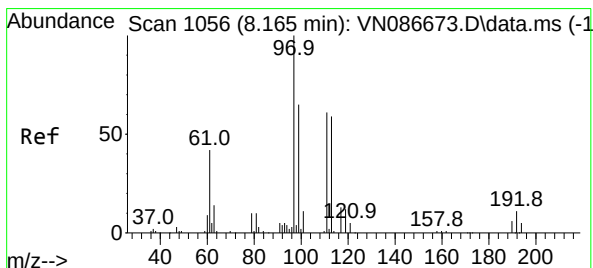
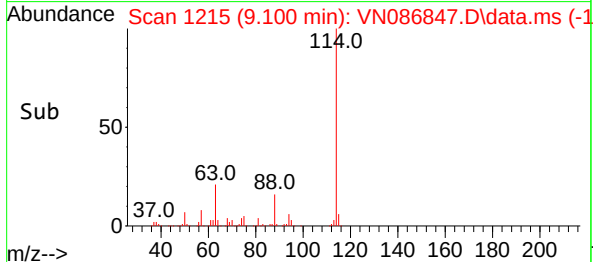
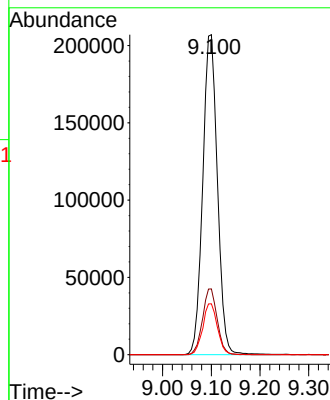
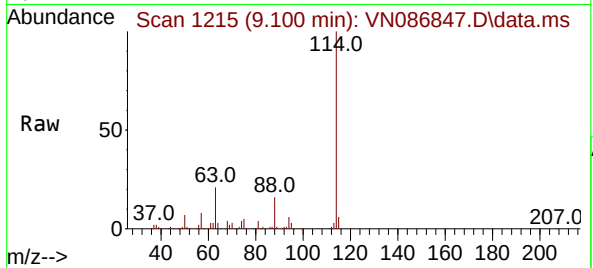




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086847.D
Acq: 03 Jun 2025 16:58

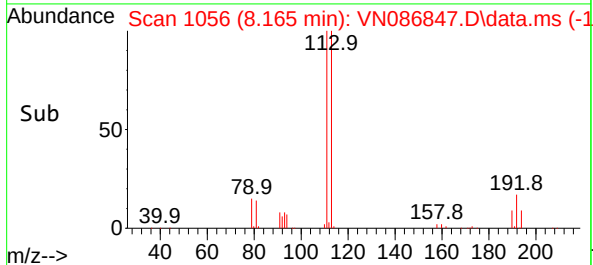
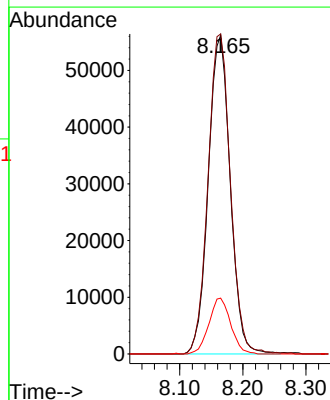
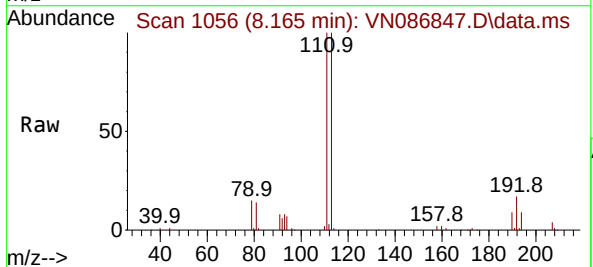
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#08

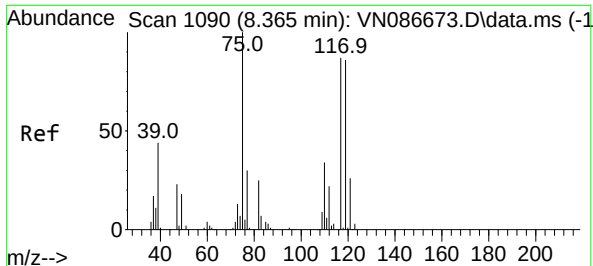
Tgt Ion:114 Resp: 433473
Ion Ratio Lower Upper
114 100
63 20.5 0.0 40.2
88 15.9 0.0 31.2



#35
Dibromofluoromethane
Concen: 52.458 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086847.D
Acq: 03 Jun 2025 16:58

Tgt Ion:113 Resp: 135421
Ion Ratio Lower Upper
113 100
111 102.8 82.2 123.2
192 17.4 13.8 20.8





#36

1,1-Dichloropropene

Concen: 4.543 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086847.D

Acq: 03 Jun 2025 16:58

Instrument :

MSVOA_N

ClientSampleId :

PB168225ZHE#08

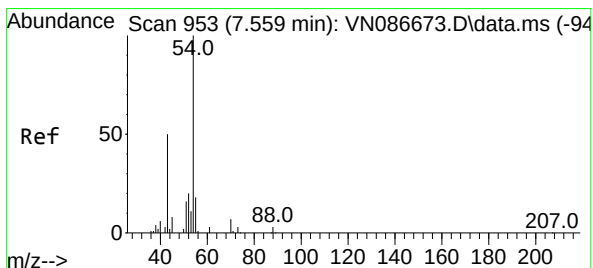
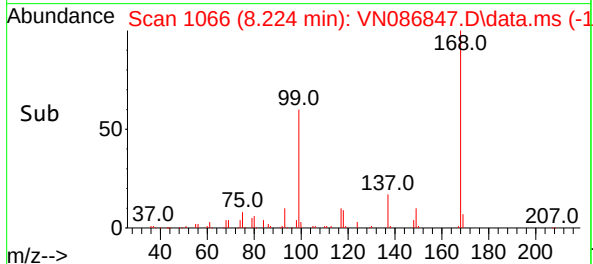
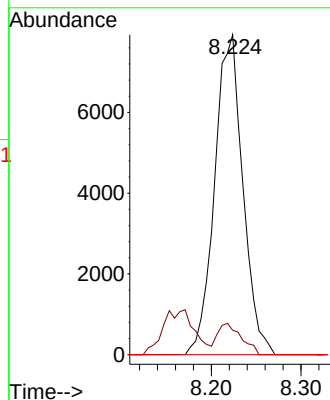
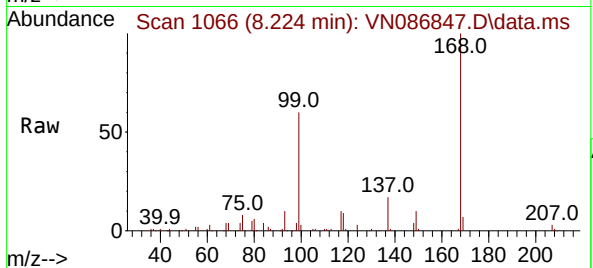
Tgt Ion: 75 Resp: 17299

Ion Ratio Lower Upper

75 100

110 8.2 17.5 52.5#

77 0.0 25.1 37.7#



#37

Ethyl Acetate

Concen: 5.834 ug/l

RT: 7.553 min Scan# 952

Delta R.T. -0.006 min

Lab File: VN086847.D

Acq: 03 Jun 2025 16:58

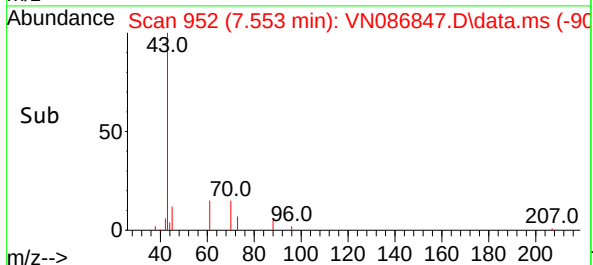
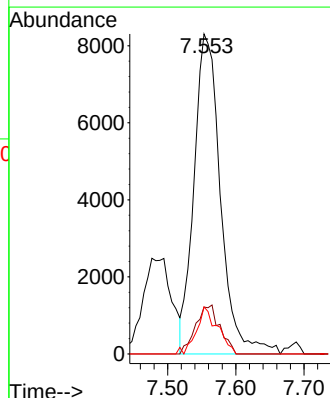
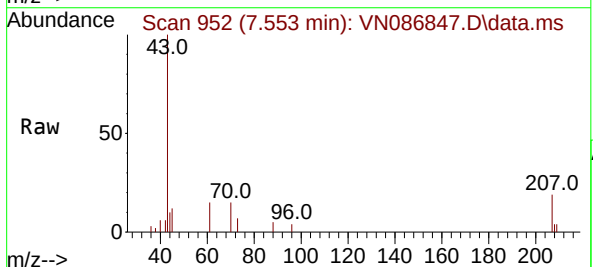
Tgt Ion: 43 Resp: 22442

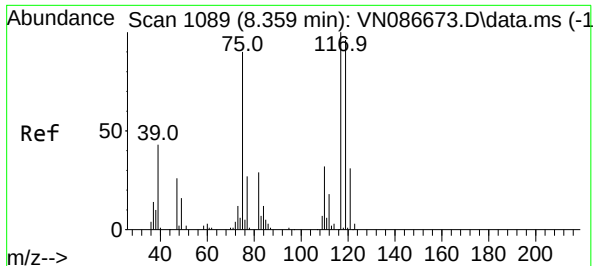
Ion Ratio Lower Upper

43 100

61 13.9 11.6 17.4

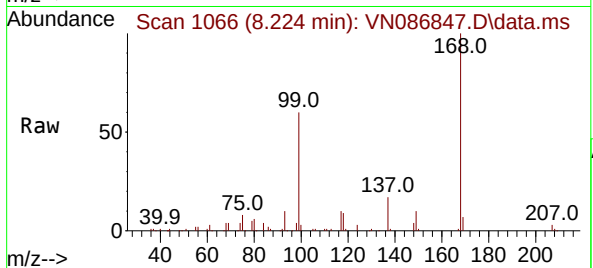
70 11.8 9.4 14.0



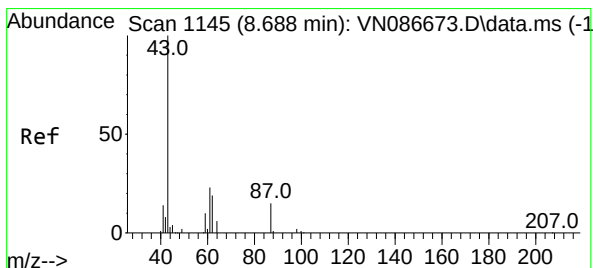
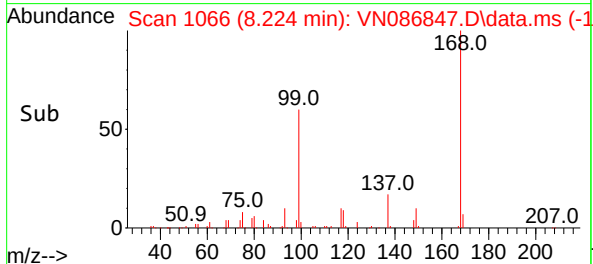
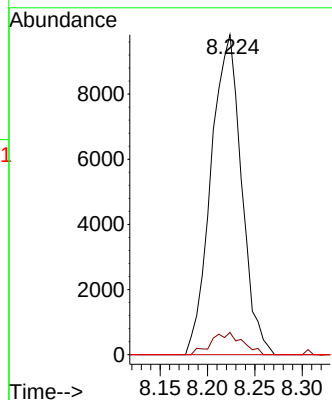


#38
Carbon Tetrachloride
Concen: 5.871 ug/l
RT: 8.224 min Scan# 1106
Delta R.T. -0.135 min
Lab File: VN086847.D
Acq: 03 Jun 2025 16:58

Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#08

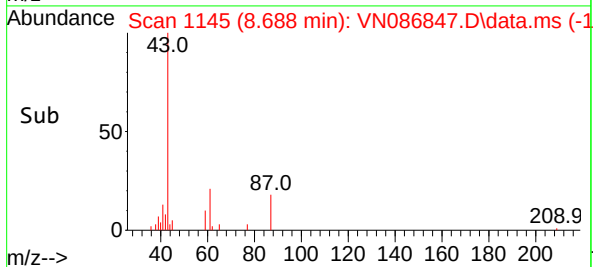
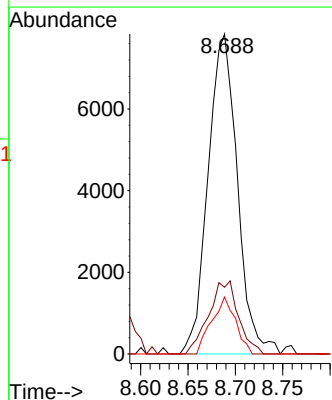
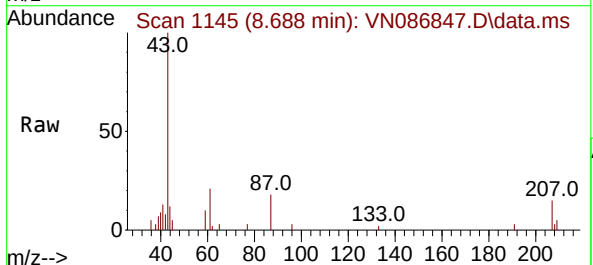


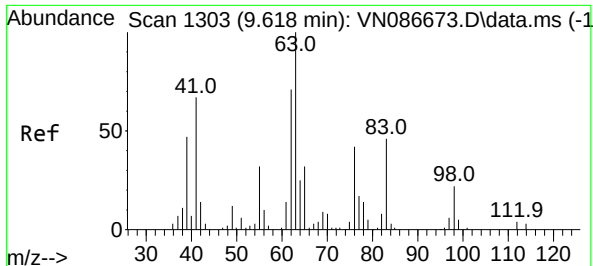
Tgt Ion:117 Resp: 22028
Ion Ratio Lower Upper
117 100
119 6.9 77.0 115.6#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 2.187 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN086847.D
Acq: 03 Jun 2025 16:58

Tgt Ion: 43 Resp: 16866
Ion Ratio Lower Upper
43 100
61 23.2 21.4 32.2
87 14.5 11.1 16.7





#45

1,2-Dichloropropane

Concen: 0.638 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.129 min

Lab File: VN086847.D

Acq: 03 Jun 2025 16:58

Instrument :

MSVOA_N

ClientSampleId :

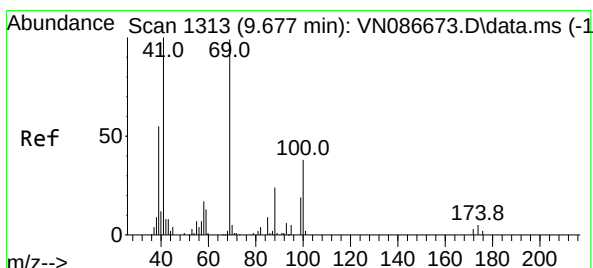
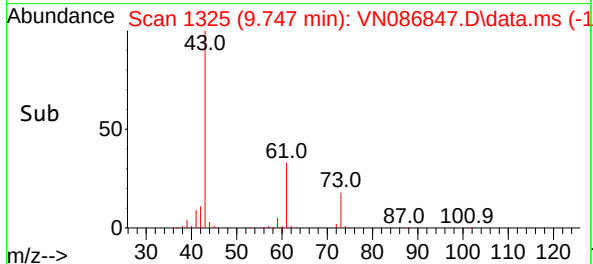
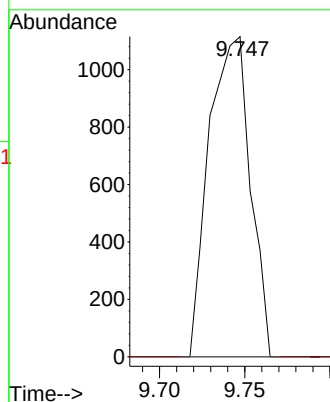
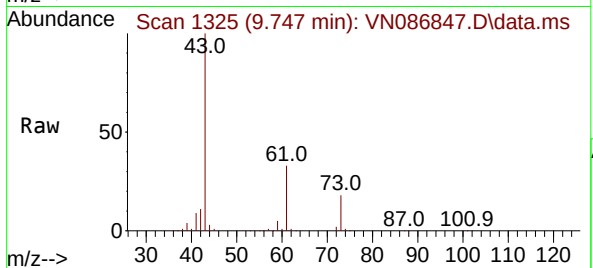
PB168225ZHE#08

Tgt Ion: 63 Resp: 1882

Ion Ratio Lower Upper

63 100

65 0.0 25.8 38.6#



#48

Methyl methacrylate

Concen: 37.864 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN086847.D

Acq: 03 Jun 2025 16:58

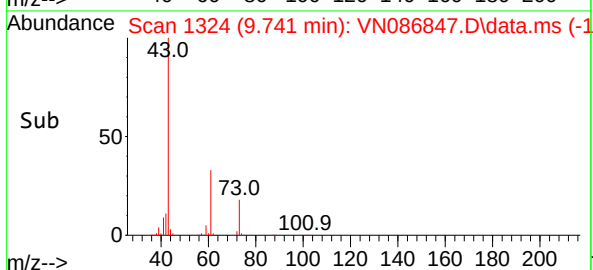
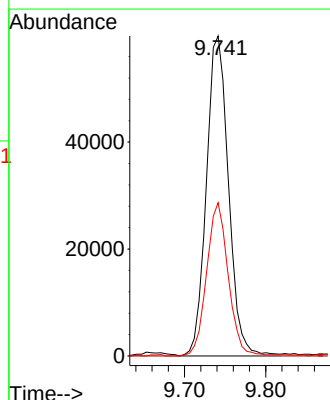
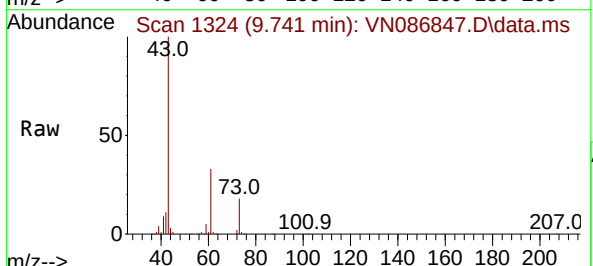
Tgt Ion: 41 Resp: 113139

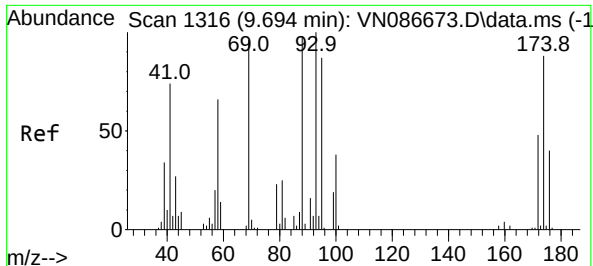
Ion Ratio Lower Upper

41 100

69 0.0 74.1 111.1#

39 47.1 44.1 66.1





#49

1,4-Dioxane

Concen: 4.773 ug/l

RT: 9.694 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086847.D

Acq: 03 Jun 2025 16:58

Instrument :

MSVOA_N

ClientSampleId :

PB168225ZHE#08

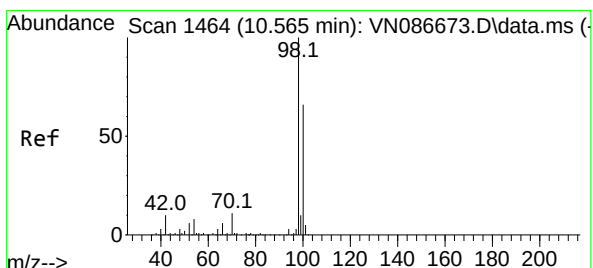
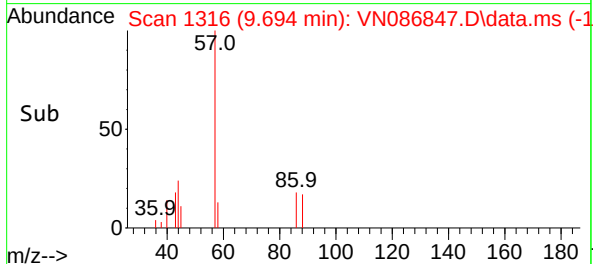
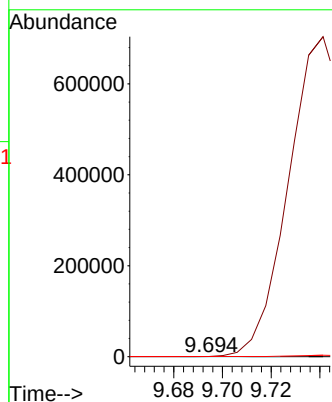
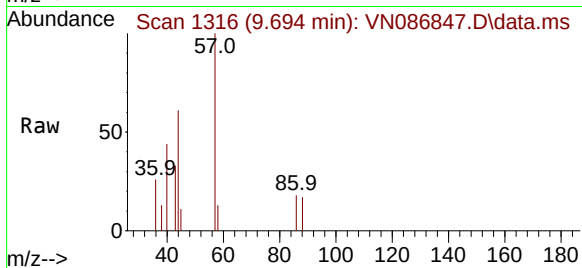
Tgt Ion: 88 Resp: 302

Ion Ratio Lower Upper

88 100

43 0.0 23.6 35.4#

58 0.0 55.3 82.9#



#50

Toluene-d8

Concen: 51.076 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN086847.D

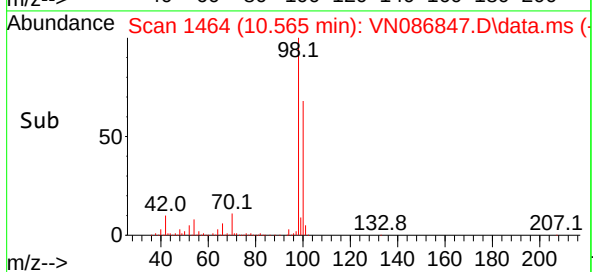
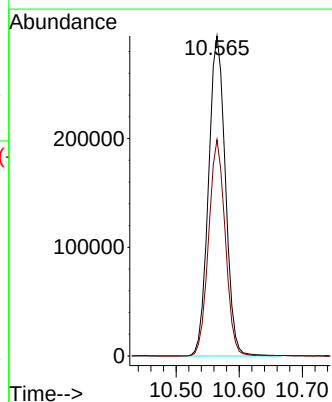
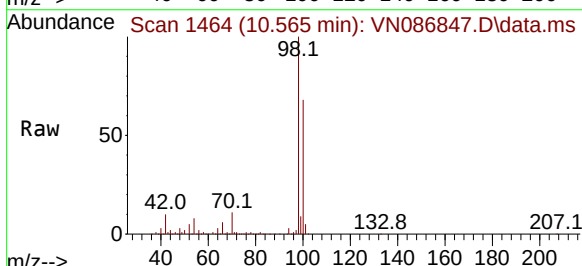
Acq: 03 Jun 2025 16:58

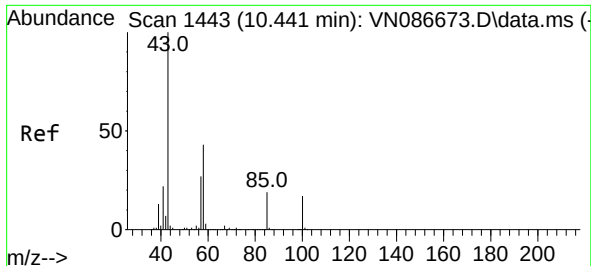
Tgt Ion: 98 Resp: 546411

Ion Ratio Lower Upper

98 100

100 66.5 52.9 79.3

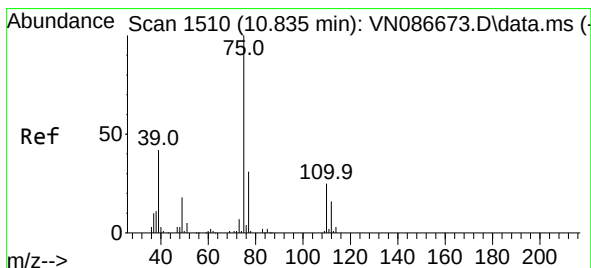
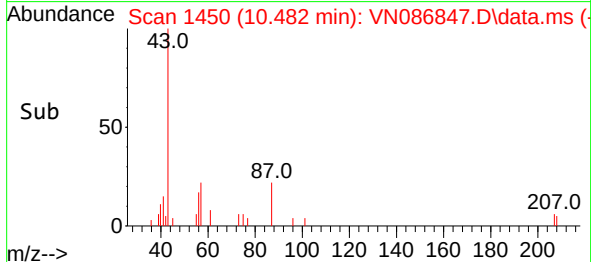
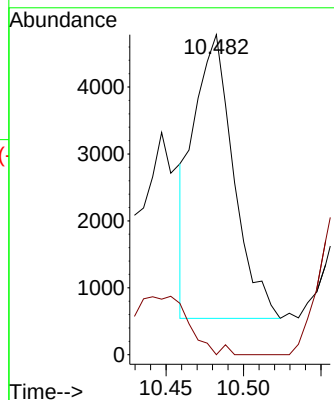
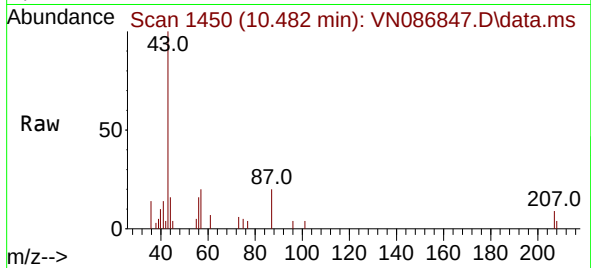




#51
4-Methyl-2-Pentanone
Concen: 1.955 ug/l
RT: 10.482 min Scan# 1443
Delta R.T. 0.041 min
Lab File: VN086847.D
Acq: 03 Jun 2025 16:58

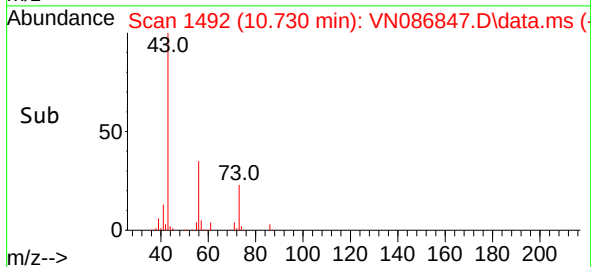
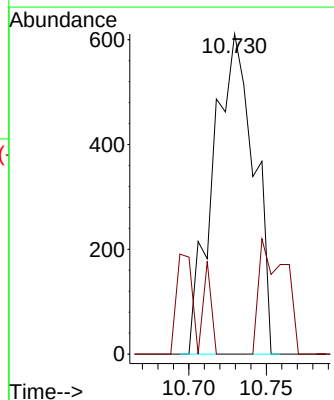
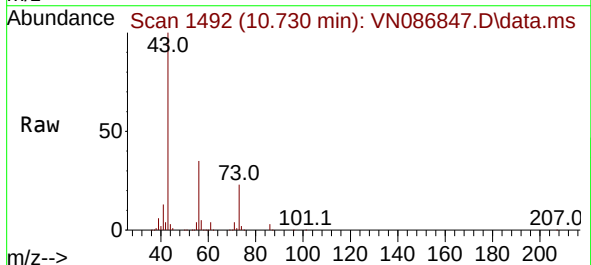
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#08

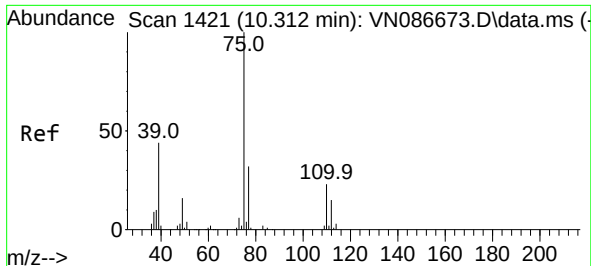
Tgt Ion: 43 Resp: 7604
Ion Ratio Lower Upper
43 100
58 0.0 33.9 50.9#



#53
t-1,3-Dichloropropene
Concen: 0.258 ug/l
RT: 10.730 min Scan# 1492
Delta R.T. -0.106 min
Lab File: VN086847.D
Acq: 03 Jun 2025 16:58

Tgt Ion: 75 Resp: 1122
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#

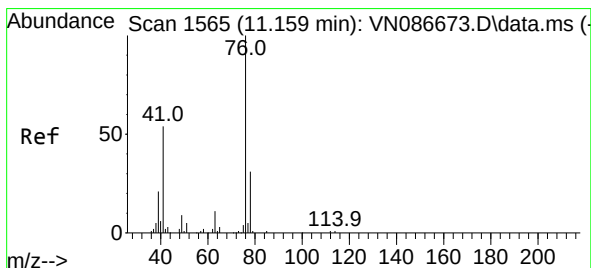
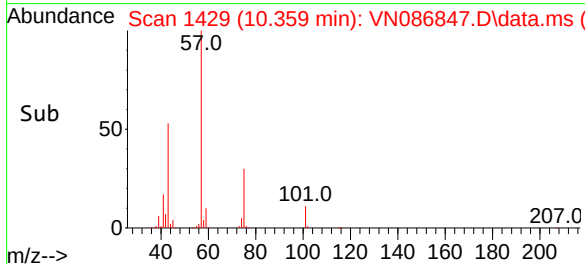
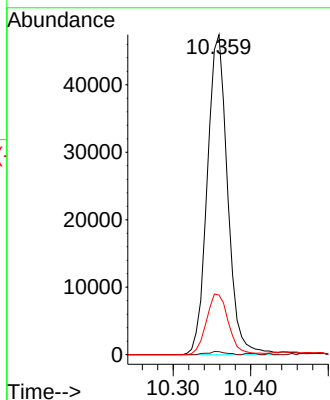
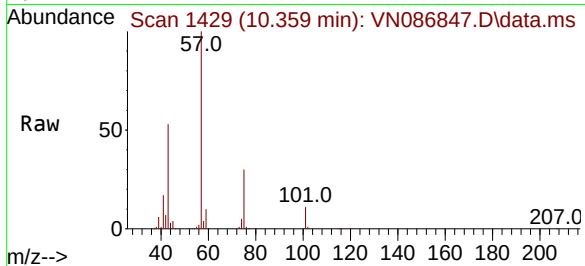




#54
 cis-1,3-Dichloropropene
 Concen: 18.259 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN086847.D
 Acq: 03 Jun 2025 16:58

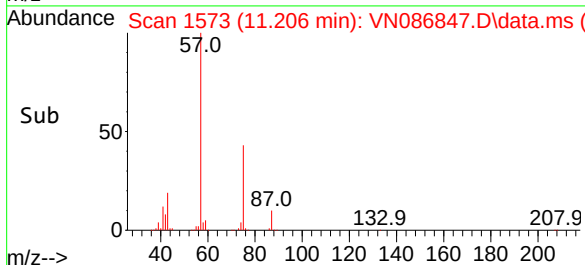
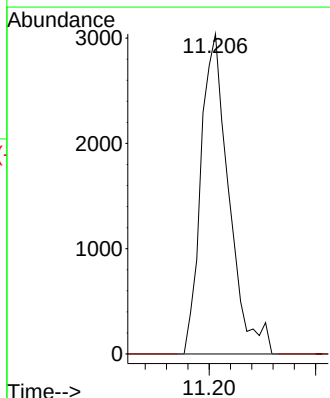
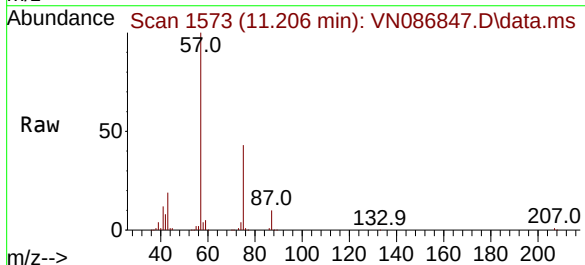
Instrument :
 MSVOA_N
 ClientSampleId :
 PB168225ZHE#08

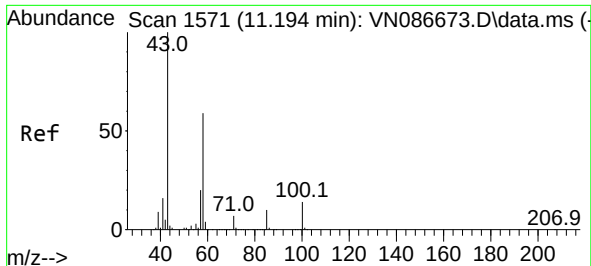
Tgt Ion: 75 Resp: 86578
 Ion Ratio Lower Upper
 75 100
 77 1.0 25.3 37.9#
 39 18.7 35.2 52.8#



#57
 1,3-Dichloropropane
 Concen: 1.112 ug/l
 RT: 11.206 min Scan# 1573
 Delta R.T. 0.047 min
 Lab File: VN086847.D
 Acq: 03 Jun 2025 16:58

Tgt Ion: 76 Resp: 5519
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#

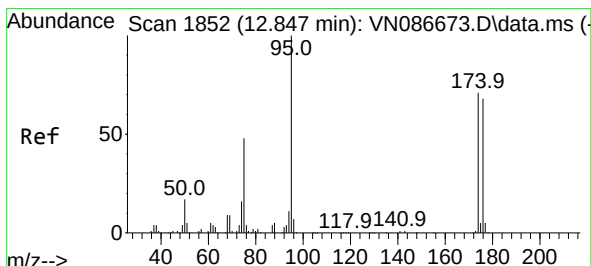
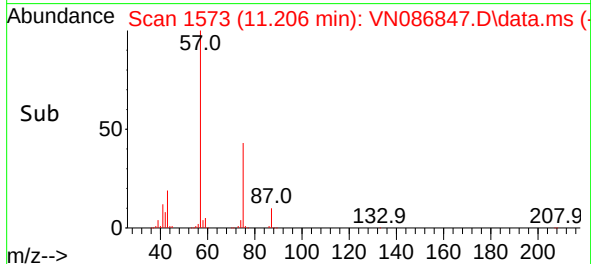
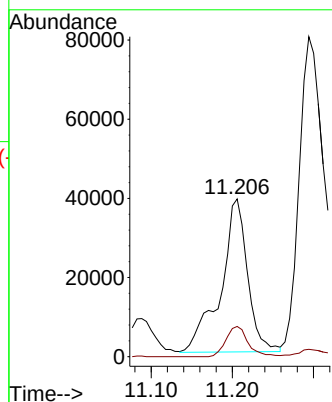
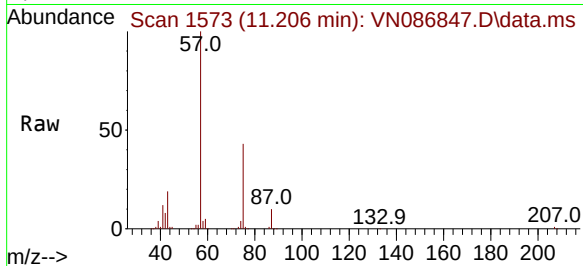




#59
2-Hexanone
Concen: 31.421 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.012 min
Lab File: VN086847.D
Acq: 03 Jun 2025 16:58

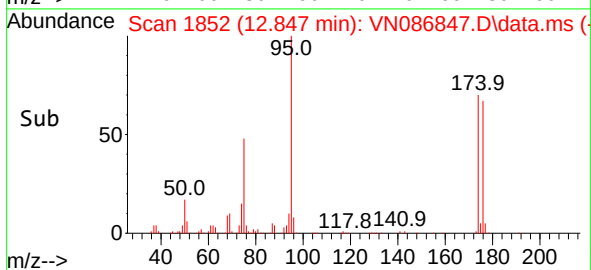
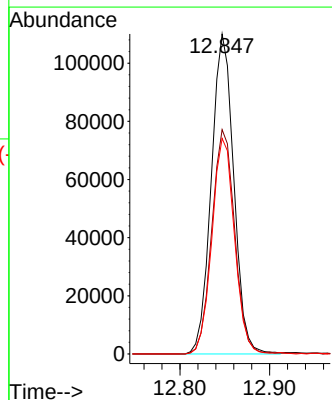
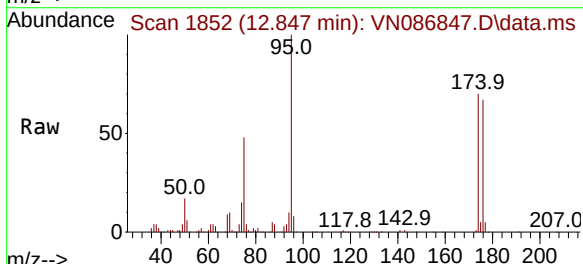
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#08

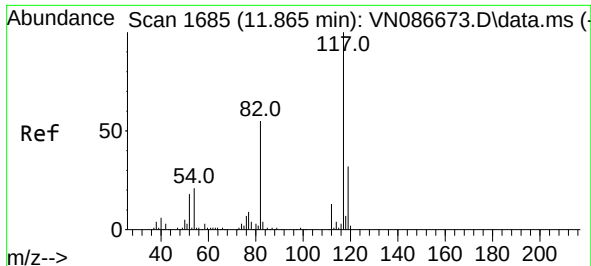
Tgt Ion: 43 Resp: 89225
Ion Ratio Lower Upper
43 100
58 16.3 29.8 89.5#



#62
4-Bromofluorobenzene
Concen: 50.524 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086847.D
Acq: 03 Jun 2025 16:58

Tgt Ion: 95 Resp: 190849
Ion Ratio Lower Upper
95 100
174 71.9 0.0 145.4
176 67.8 0.0 137.8

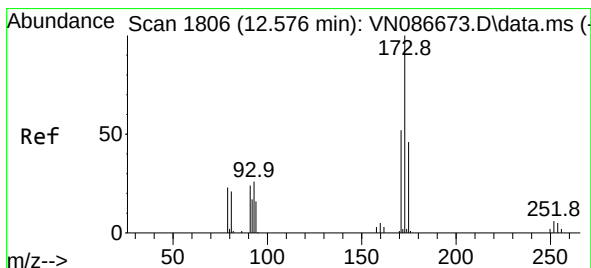
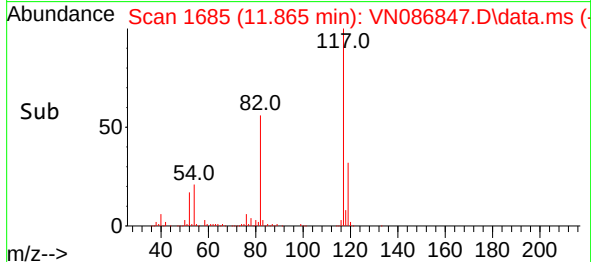
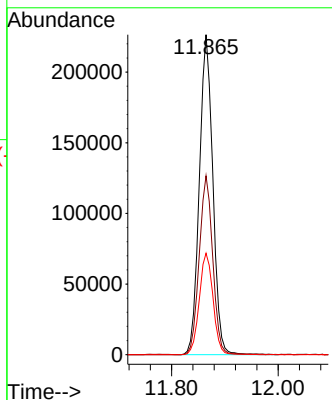
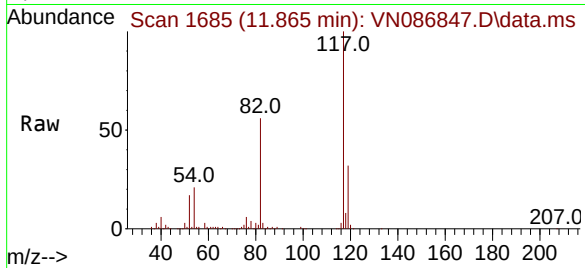




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086847.D
Acq: 03 Jun 2025 16:58

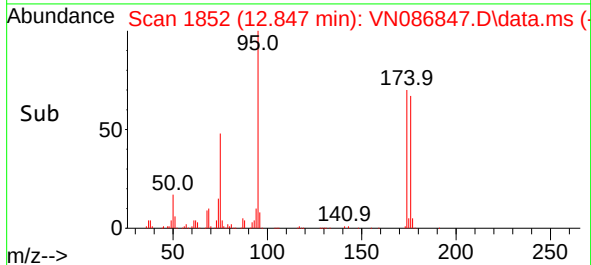
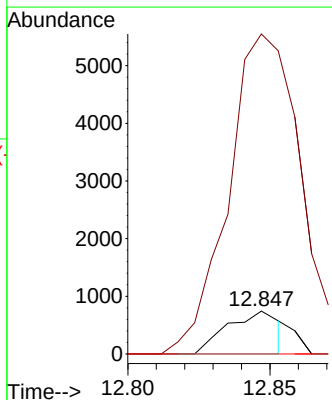
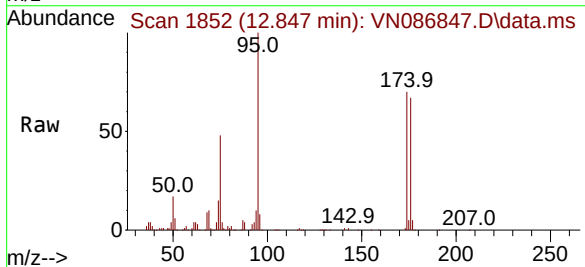
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#08

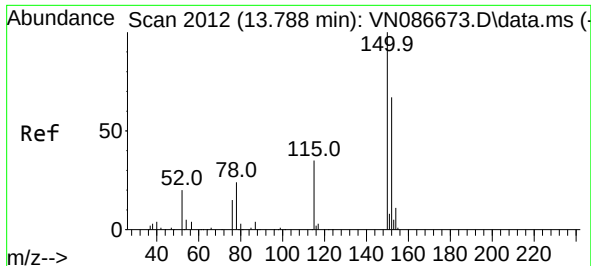
Tgt Ion:117 Resp: 397183
Ion Ratio Lower Upper
117 100
82 55.9 44.2 66.2
119 31.7 25.4 38.2



#71
Bromoform
Concen: 0.472 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.271 min
Lab File: VN086847.D
Acq: 03 Jun 2025 16:58

Tgt Ion:173 Resp: 944
Ion Ratio Lower Upper
173 100
175 774.8 23.4 70.2#
254 0.0 0.0 0.0

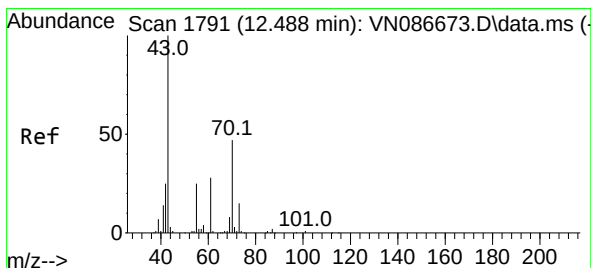
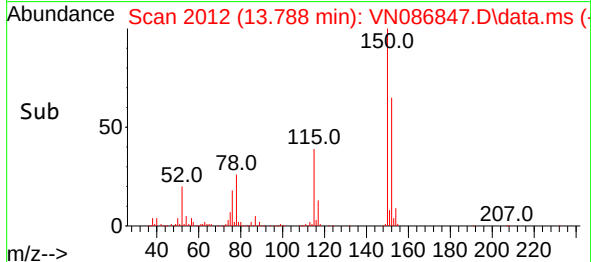
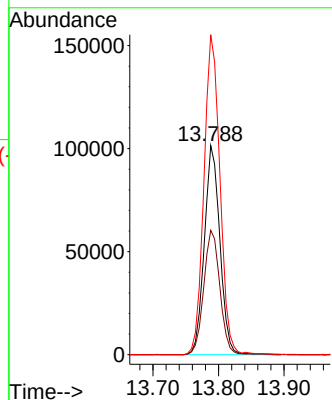
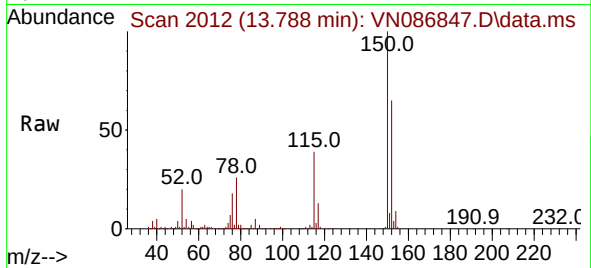




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086847.D
Acq: 03 Jun 2025 16:58

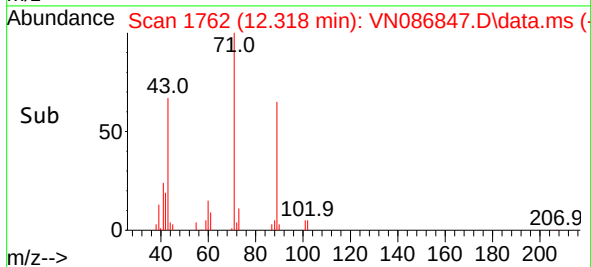
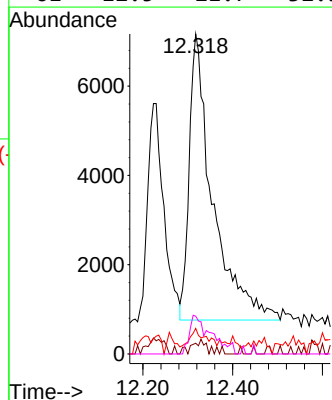
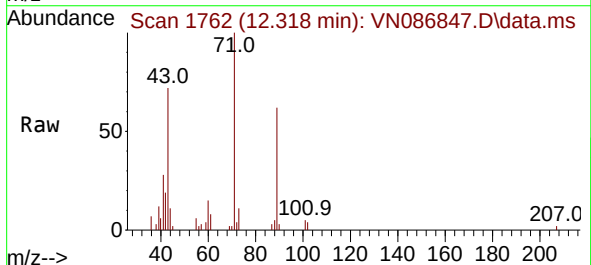
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#08

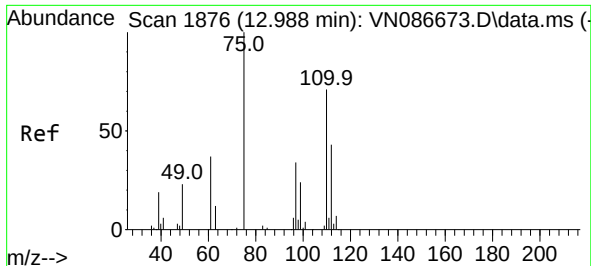
Tgt Ion:152 Resp: 167809
Ion Ratio Lower Upper
152 100
115 61.4 30.0 90.1
150 157.8 0.0 347.8



#74
N-ethyl acetate
Concen: 4.289 ug/l
RT: 12.318 min Scan# 1762
Delta R.T. -0.171 min
Lab File: VN086847.D
Acq: 03 Jun 2025 16:58

Tgt Ion: 43 Resp: 23226
Ion Ratio Lower Upper
43 100
70 2.7 37.9 56.9#
55 4.8 20.5 30.7#
61 12.5 21.7 32.5#

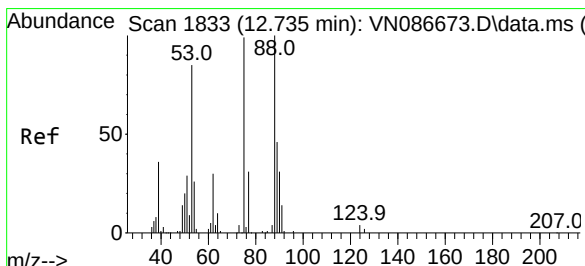
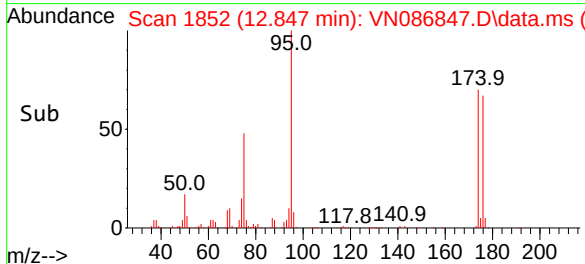
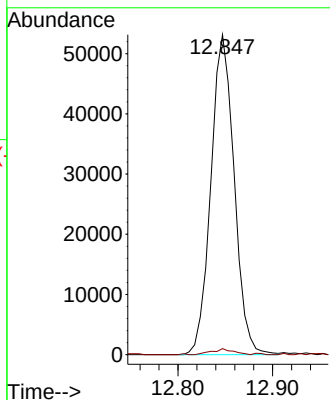
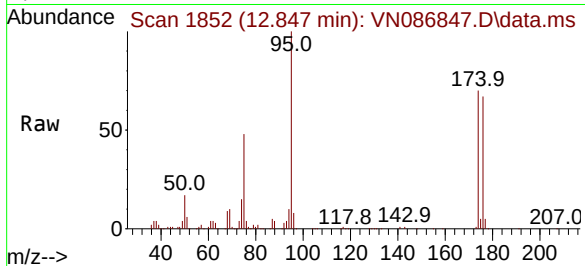




#76
1,2,3-Trichloropropane
Concen: 23.946 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086847.D
Acq: 03 Jun 2025 16:58

Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#08

Tgt Ion: 75 Resp: 90879
Ion Ratio Lower Upper
75 100
77 1.7 96.0 288.1#



#81
trans-1,4-Dichloro-2-butene
Concen: 60.432 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086847.D
Acq: 03 Jun 2025 16:58

Tgt Ion: 75 Resp: 90879
Ion Ratio Lower Upper
75 100
53 0.0 70.4 105.6#
89 0.0 32.4 48.6#

