

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
 Data File : VN086853.D
 Acq On : 03 Jun 2025 19:23
 Operator : JC\MD
 Sample : PB168225ZHE#14
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168225ZHE#14

Quant Time: Jun 04 02:05:26 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

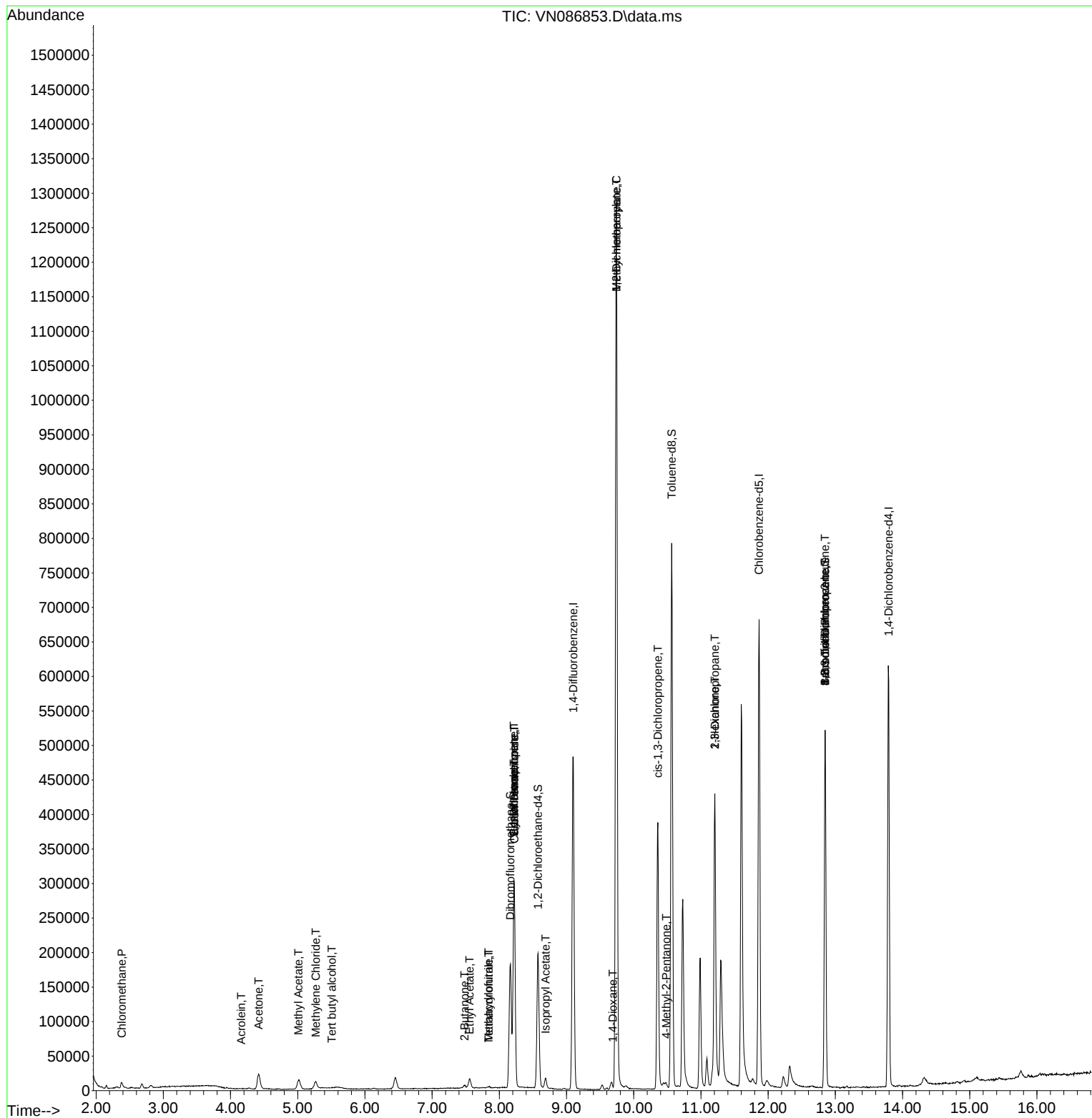
Compound	R.T. QIon		Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	228317	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	445797	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	412233	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	176470	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	160318	50.815	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 101.640%		
35) Dibromofluoromethane	8.165	113	138867	52.306	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 104.620%		
50) Toluene-d8	10.565	98	562207	51.100	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 102.200%		
62) 4-Bromofluorobenzene	12.847	95	200657	51.652	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 103.300%		
Target Compounds						Qvalue
3) Chloromethane	2.383	50	15700	4.210	ug/l	97
11) Tert butyl alcohol	5.506	59	267	0.465	ug/l #	73
13) Acrolein	4.159	56	244	0.397	ug/l #	21
16) Acetone	4.418	43	42258	35.807	ug/l	97
18) Methyl Acetate	5.012	43	30056	9.099	ug/l	97
20) Methylene Chloride	5.271	84	8524	2.737	ug/l	97
25) 2-Butanone	7.483	43	7354	4.033	ug/l	93
29) Tetrahydrofuran	7.841	42	679	0.570	ug/l #	52
31) Cyclohexane	8.218	56	4455	0.941	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	18935	4.835	ug/l #	47
37) Ethyl Acetate	7.559	43	20867	5.275	ug/l	98
38) Carbon Tetrachloride	8.224	117	22488	5.828	ug/l #	15
41) Methacrylonitrile	7.841	41	515	0.241	ug/l #	21
43) Isopropyl Acetate	8.688	43	16524	2.084	ug/l	93
45) 1,2-Dichloropropane	9.741	63	1922	0.633	ug/l #	42
48) Methyl methacrylate	9.741	41	108778	35.398	ug/l #	36
49) 1,4-Dioxane	9.688	88	402	6.178	ug/l #	1
51) 4-Methyl-2-Pentanone	10.482	43	6936	1.734	ug/l #	33
54) cis-1,3-Dichloropropene	10.359	75	81334	16.679	ug/l #	56
57) 1,3-Dichloropropane	11.206	76	5334	1.045	ug/l #	42
59) 2-Hexanone	11.206	43	81734	27.987	ug/l #	44
71) Bromoform	12.847	173	976	0.470	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	98350	24.643	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	98350	62.190	ug/l #	15

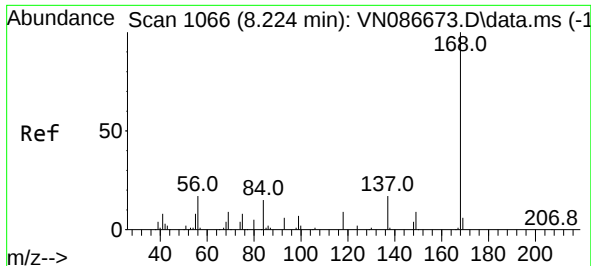
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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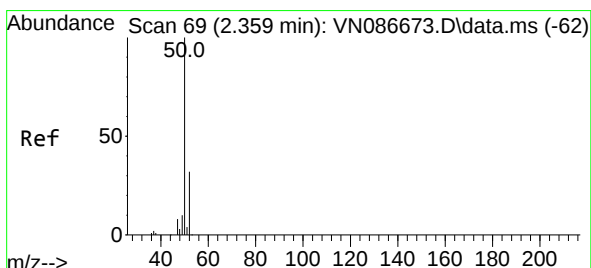
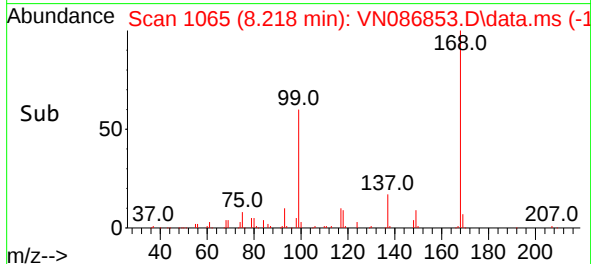
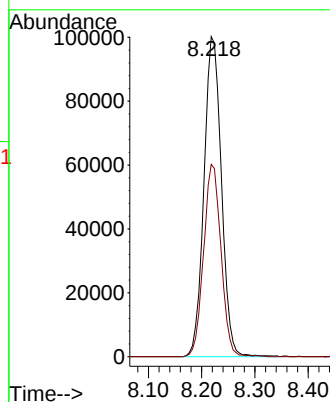
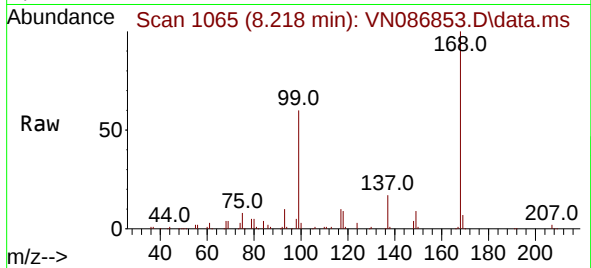




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086853.D
Acq: 03 Jun 2025 19:23

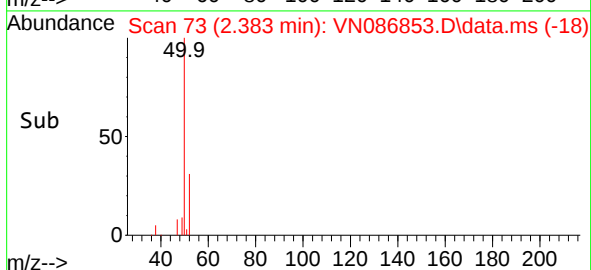
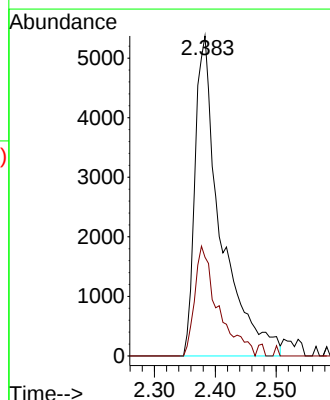
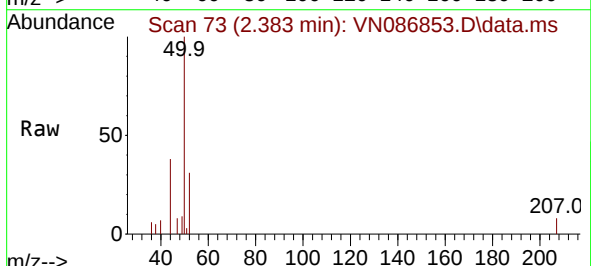
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#14

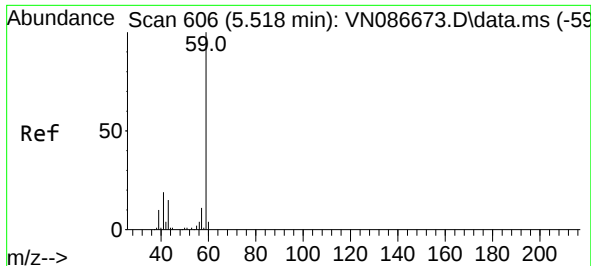
Tgt Ion:168 Resp: 228317
Ion Ratio Lower Upper
168 100
99 60.1 47.0 70.4



#3
Chloromethane
Concen: 4.210 ug/l
RT: 2.383 min Scan# 73
Delta R.T. 0.024 min
Lab File: VN086853.D
Acq: 03 Jun 2025 19:23

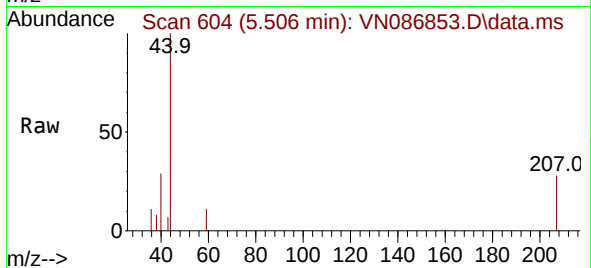
Tgt Ion: 50 Resp: 15700
Ion Ratio Lower Upper
50 100
52 30.8 25.9 38.9



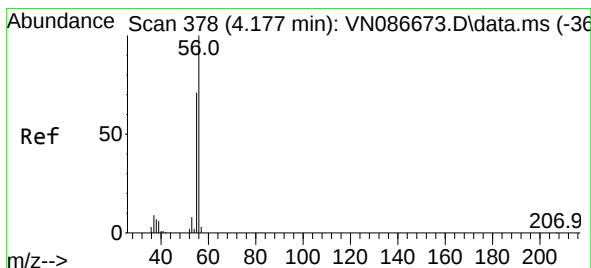
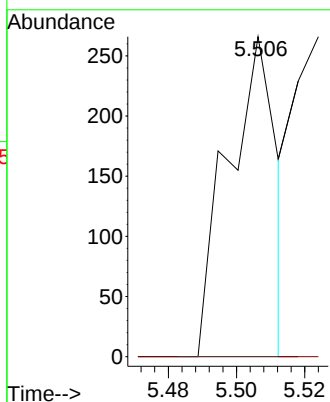
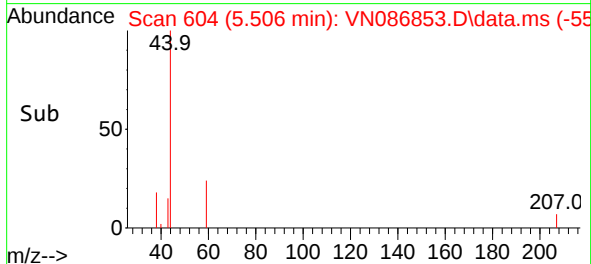


#11
Tert butyl alcohol
Concen: 0.465 ug/l
RT: 5.506 min Scan# 606
Delta R.T. -0.012 min
Lab File: VN086853.D
Acq: 03 Jun 2025 19:23

Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#14

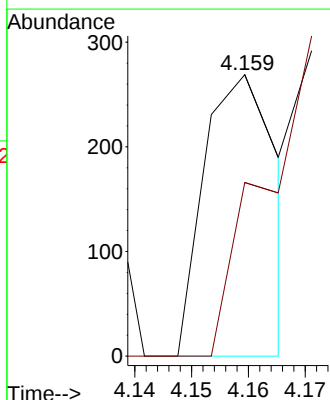
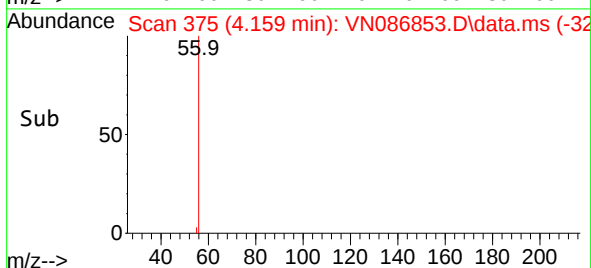
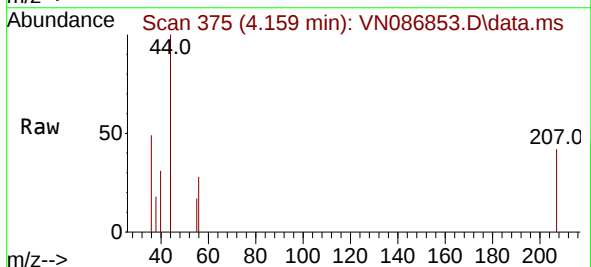


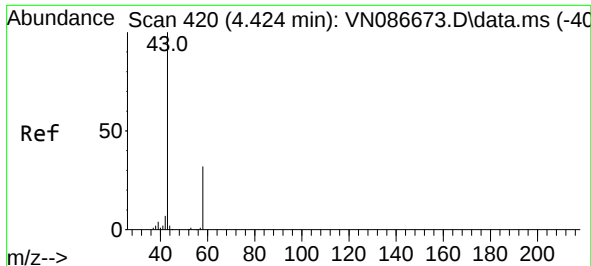
Tgt Ion: 59 Resp: 267
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#13
Acrolein
Concen: 0.397 ug/l
RT: 4.159 min Scan# 375
Delta R.T. -0.018 min
Lab File: VN086853.D
Acq: 03 Jun 2025 19:23

Tgt Ion: 56 Resp: 244
Ion Ratio Lower Upper
56 100
55 134.4 55.7 83.5#

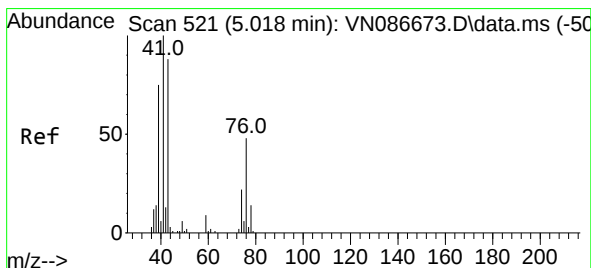
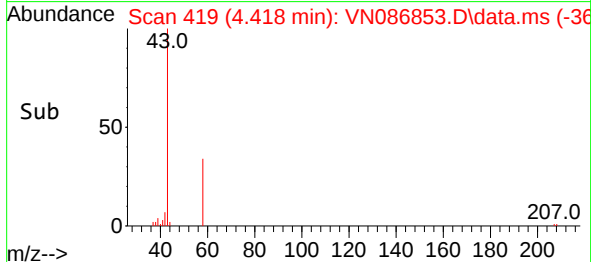
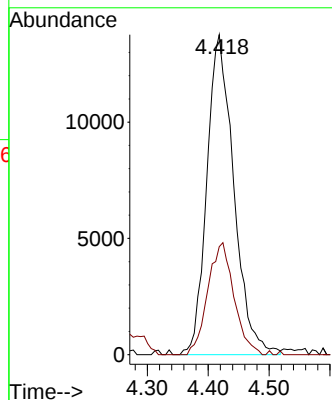
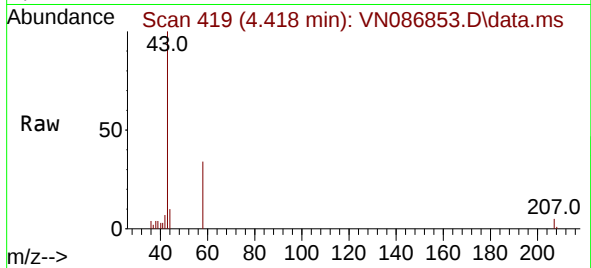




#16
Acetone
Concen: 35.807 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN086853.D
Acq: 03 Jun 2025 19:23

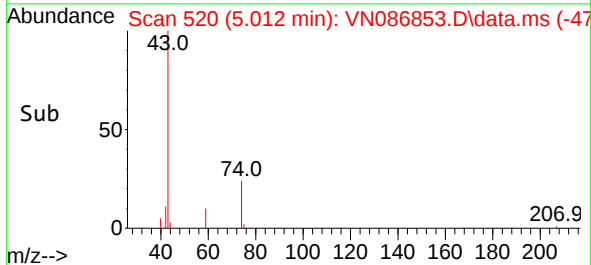
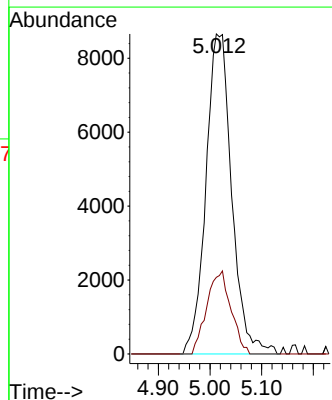
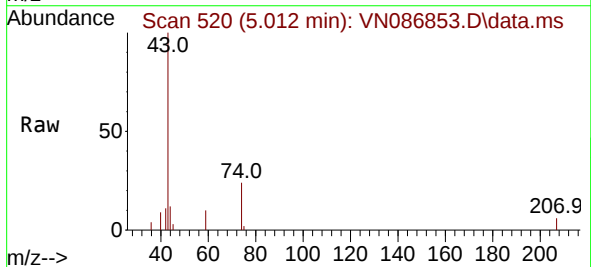
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#14

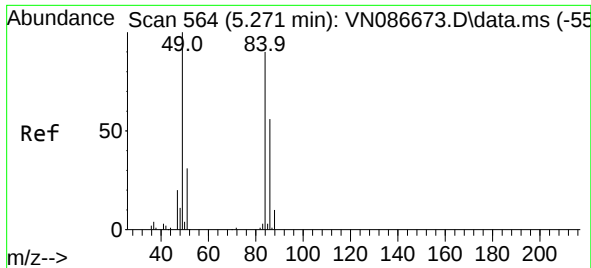
Tgt Ion: 43 Resp: 42258
Ion Ratio Lower Upper
43 100
58 33.8 25.8 38.6



#18
Methyl Acetate
Concen: 9.099 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.006 min
Lab File: VN086853.D
Acq: 03 Jun 2025 19:23

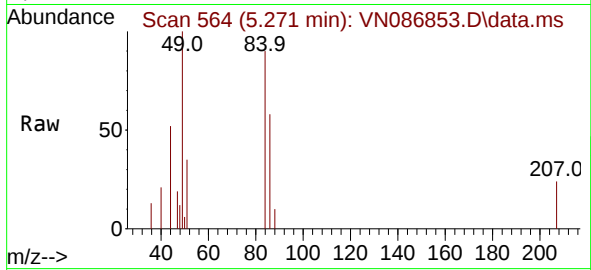
Tgt Ion: 43 Resp: 30056
Ion Ratio Lower Upper
43 100
74 24.2 20.5 30.7



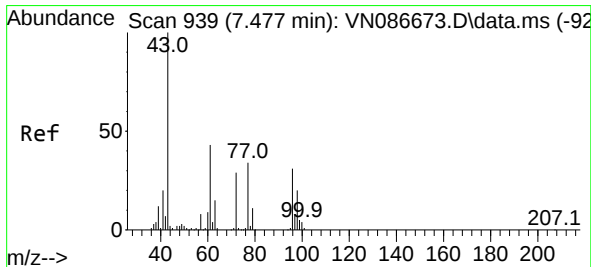
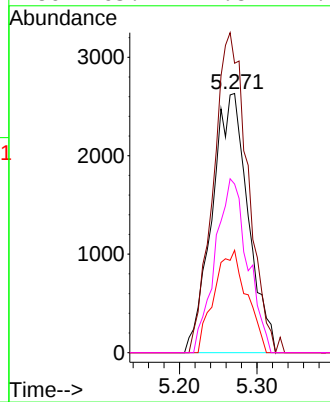
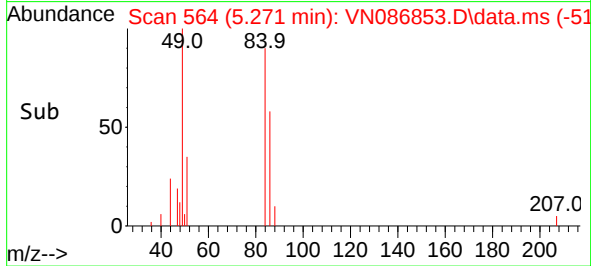


#20
Methylene Chloride
Concen: 2.737 ug/l
RT: 5.271 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN086853.D
Acq: 03 Jun 2025 19:23

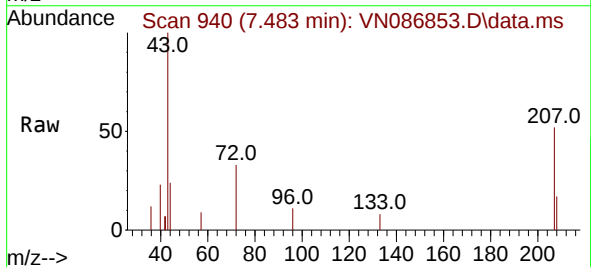
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#14



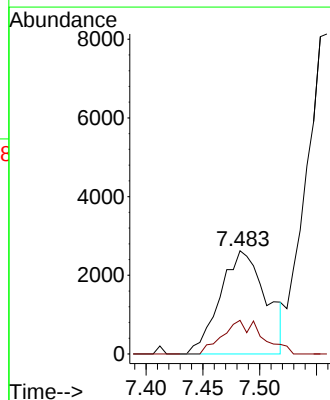
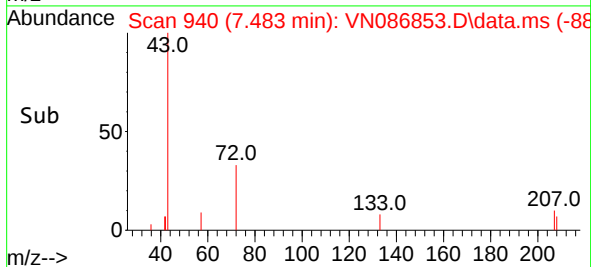
Tgt Ion:	84	Resp:	8524
Ion	Ratio	Lower	Upper
84	100		
49	111.7	88.8	133.2
51	39.5	27.8	41.6
86	65.1	49.8	74.6

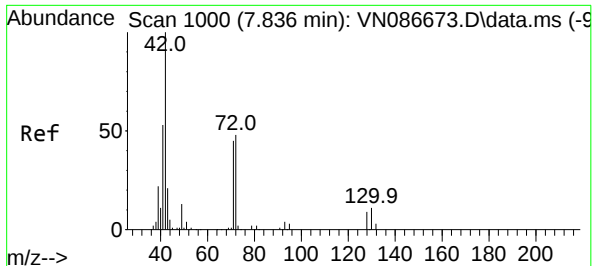


#25
2-Butanone
Concen: 4.033 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086853.D
Acq: 03 Jun 2025 19:23



Tgt Ion:	43	Resp:	7354
Ion	Ratio	Lower	Upper
43	100		
72	32.6	23.1	34.7





#29

Tetrahydrofuran

Concen: 0.570 ug/l

RT: 7.841 min Scan# 1065

Delta R.T. 0.006 min

Lab File: VN086853.D

Acq: 03 Jun 2025 19:23

Instrument :

MSVOA_N

ClientSampleId :

PB168225ZHE#14

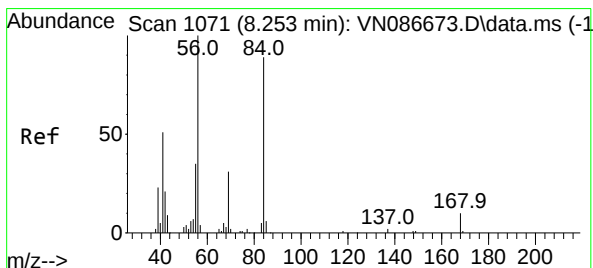
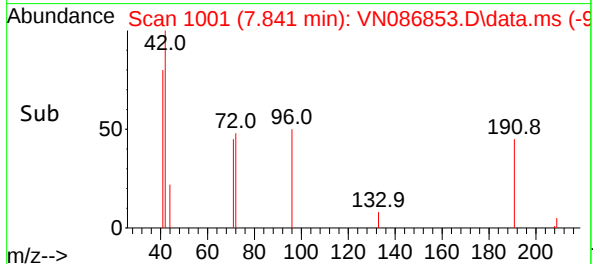
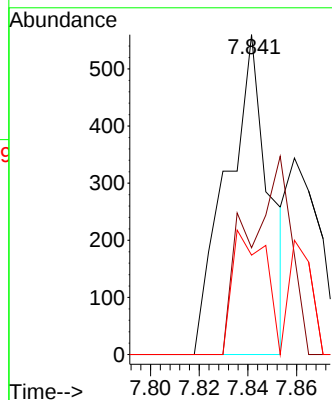
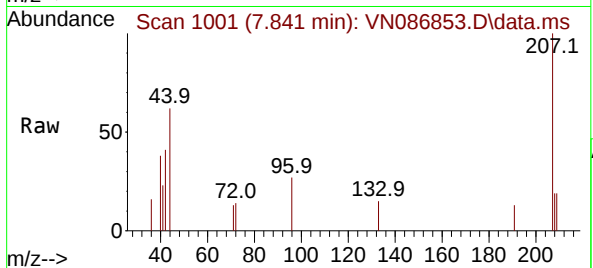
Tgt Ion: 42 Resp: 679

Ion Ratio Lower Upper

42 100

72 0.0 38.7 58.1#

71 30.3 36.2 54.4#



#31

Cyclohexane

Concen: 0.941 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.035 min

Lab File: VN086853.D

Acq: 03 Jun 2025 19:23

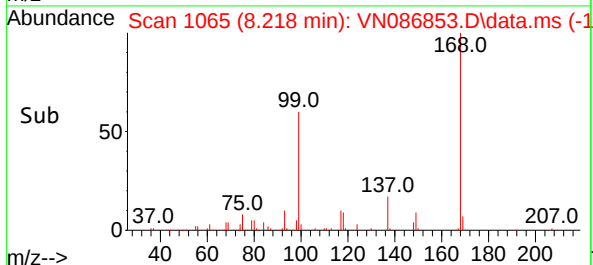
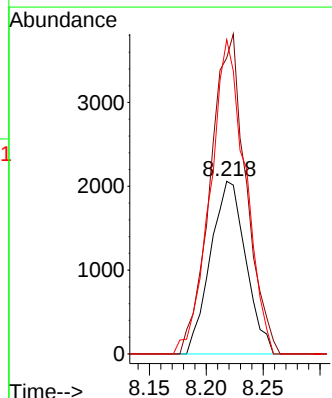
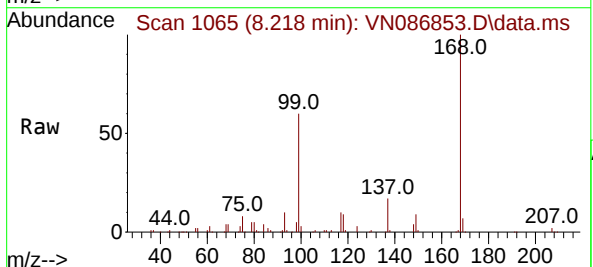
Tgt Ion: 56 Resp: 4455

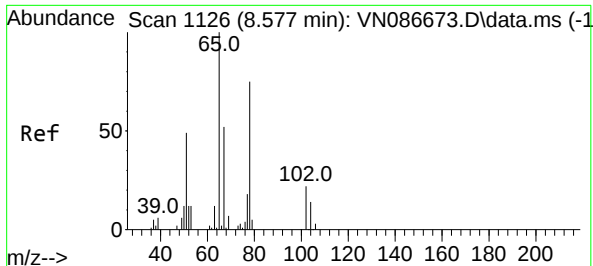
Ion Ratio Lower Upper

56 100

69 171.6 25.0 37.6#

84 182.0 71.0 106.4#





#33

1,2-Dichloroethane-d4

Concen: 50.815 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086853.D

Acq: 03 Jun 2025 19:23

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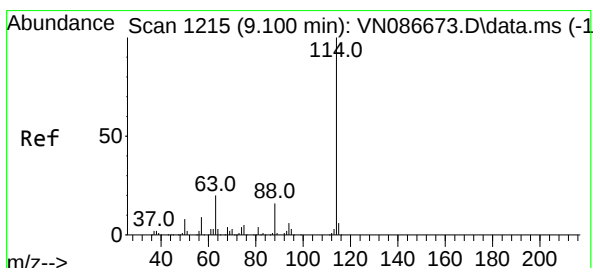
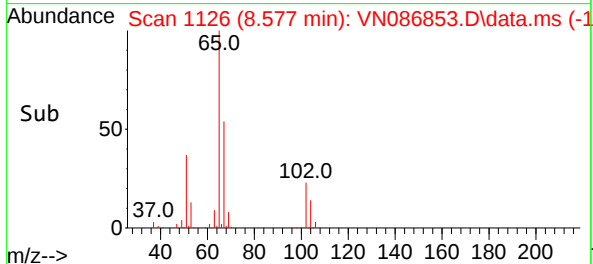
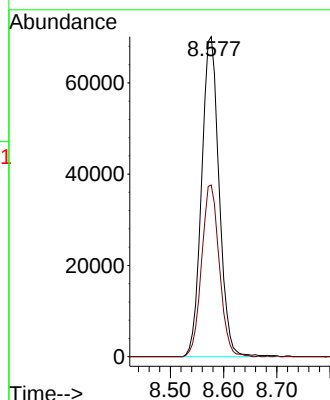
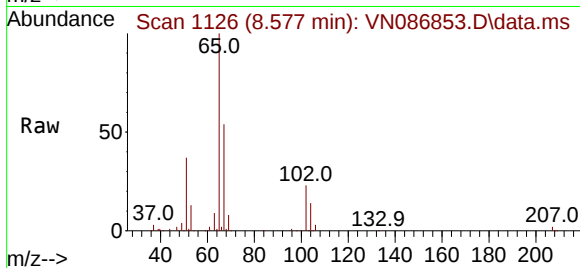
PB168225ZHE#14

Tgt Ion: 65 Resp: 160318

Ion Ratio Lower Upper

65 100

67 54.2 0.0 106.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN086853.D

Acq: 03 Jun 2025 19:23

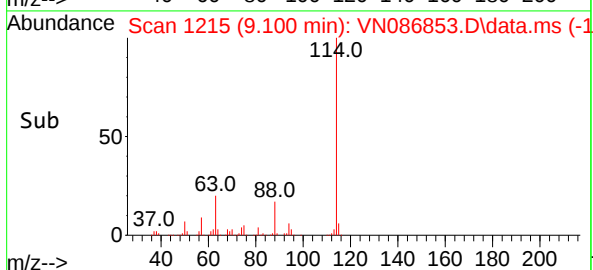
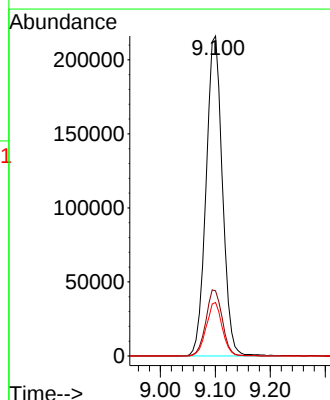
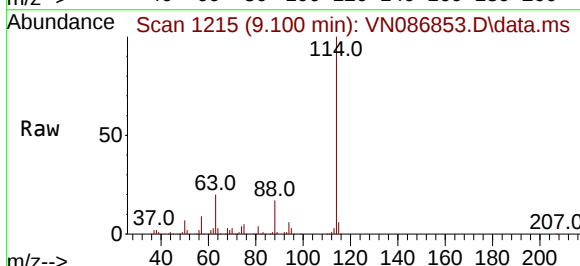
Tgt Ion: 114 Resp: 445797

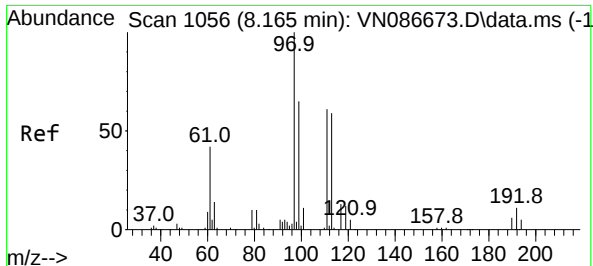
Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.2

88 16.7 0.0 31.2





#35

Dibromofluoromethane

Concen: 52.306 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086853.D

Acq: 03 Jun 2025 19:23

Instrument :

MSVOA_N

ClientSampleId :

PB168225ZHE#14

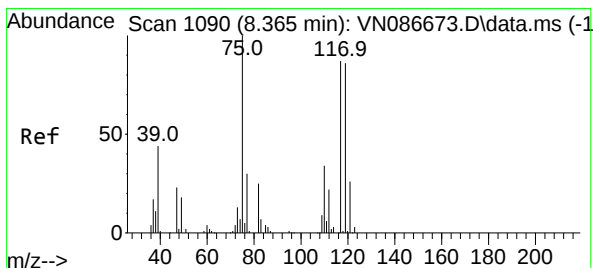
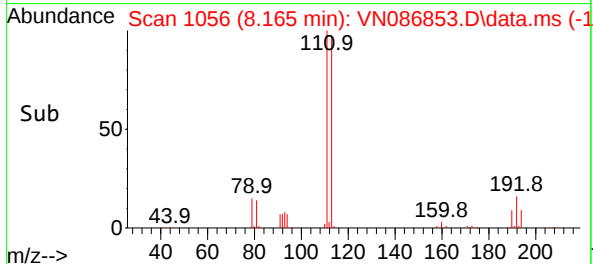
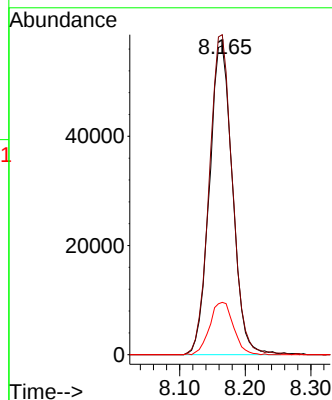
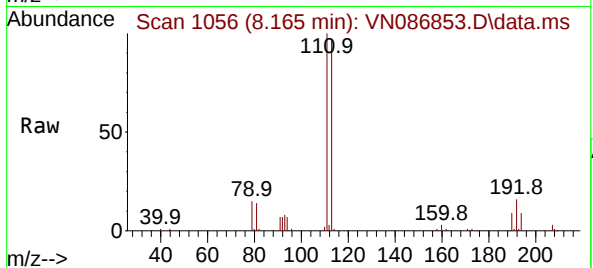
Tgt Ion:113 Resp: 138867

Ion Ratio Lower Upper

113 100

111 103.1 82.2 123.2

192 17.4 13.8 20.8



#36

1,1-Dichloropropene

Concen: 4.835 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086853.D

Acq: 03 Jun 2025 19:23

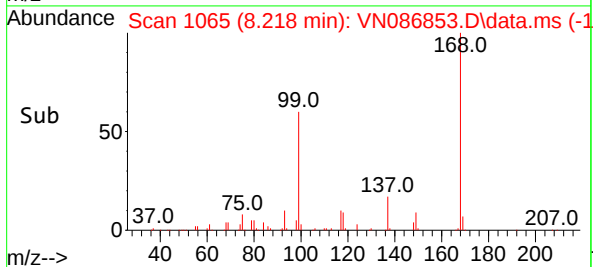
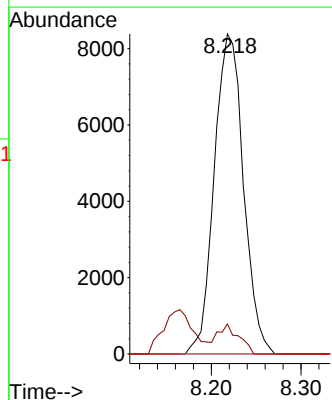
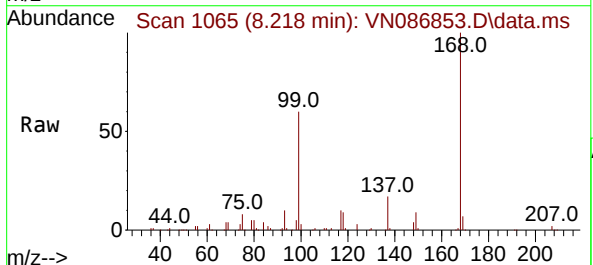
Tgt Ion: 75 Resp: 18935

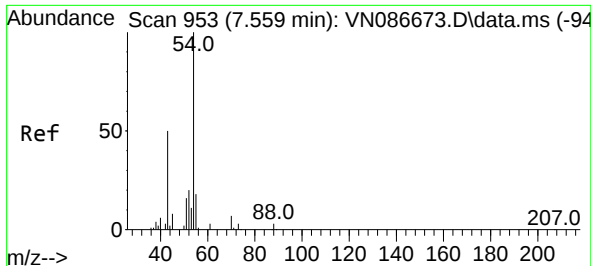
Ion Ratio Lower Upper

75 100

110 6.6 17.5 52.5#

77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 5.275 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN086853.D

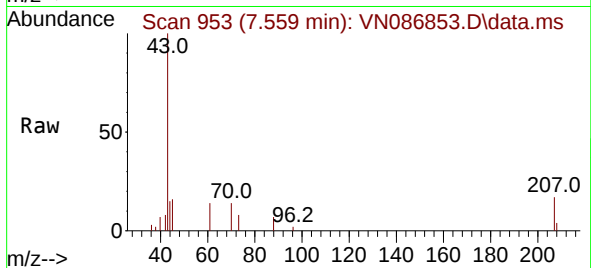
Acq: 03 Jun 2025 19:23

Instrument :

MSVOA_N

ClientSampleId :

PB168225ZHE#14



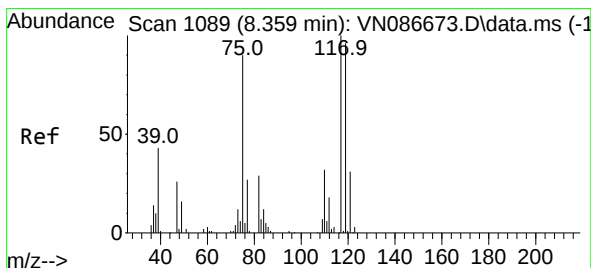
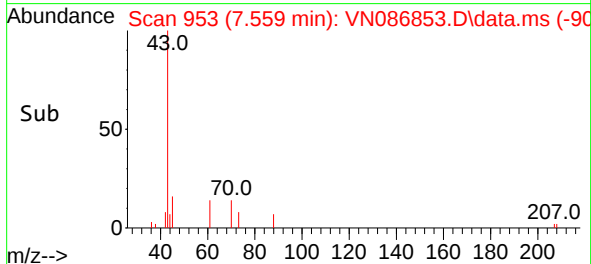
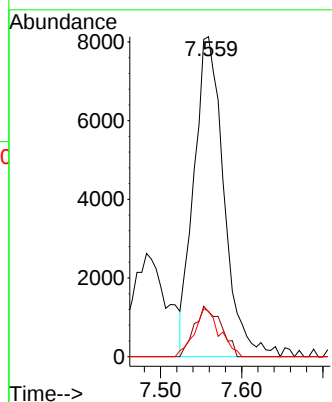
Tgt Ion: 43 Resp: 20867

Ion Ratio Lower Upper

43 100

61 14.2 11.6 17.4

70 12.8 9.4 14.0



#38

Carbon Tetrachloride

Concen: 5.828 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN086853.D

Acq: 03 Jun 2025 19:23

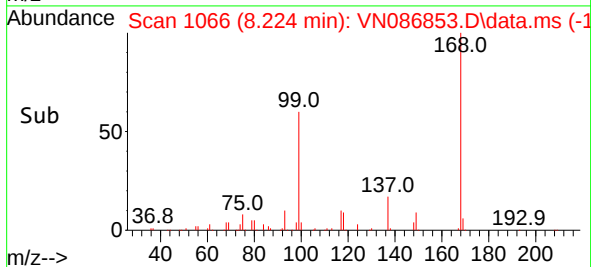
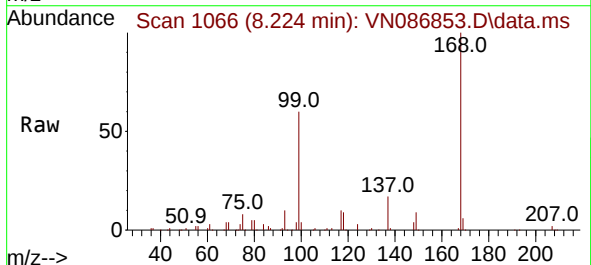
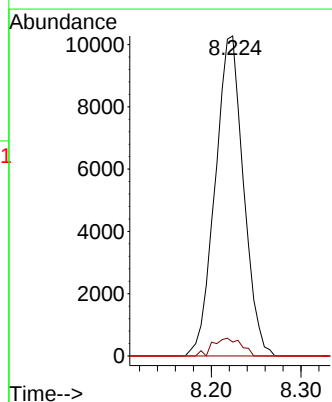
Tgt Ion: 117 Resp: 22488

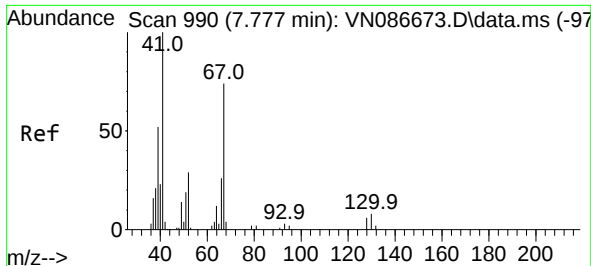
Ion Ratio Lower Upper

117 100

119 4.4 77.0 115.6#

121 0.0 25.0 37.6#

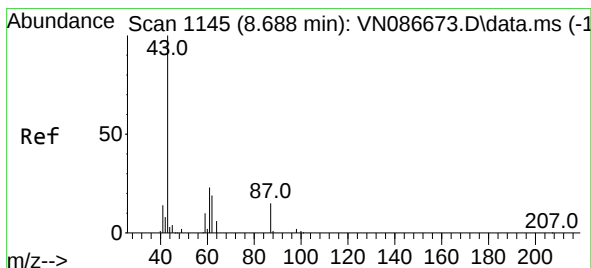
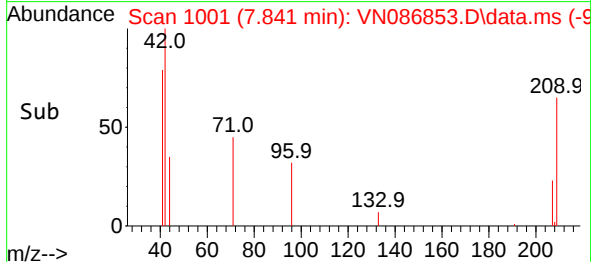
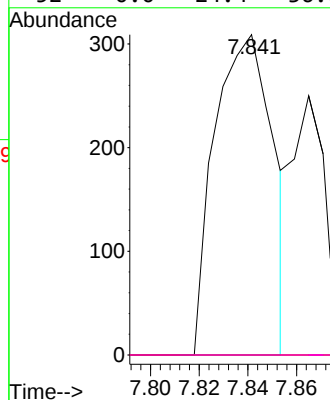
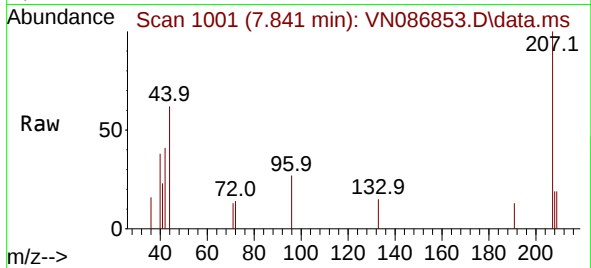




#41
Methacrylonitrile
Concen: 0.241 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.065 min
Lab File: VN086853.D
Acq: 03 Jun 2025 19:23

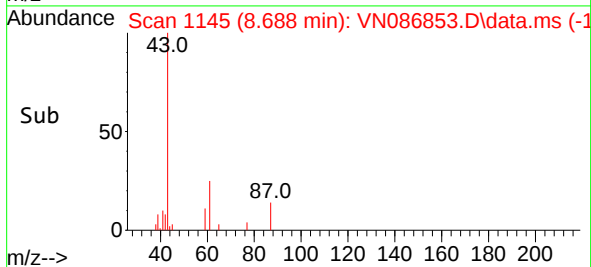
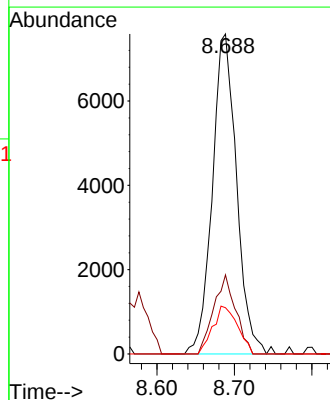
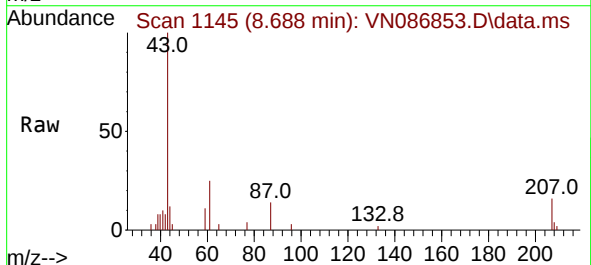
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#14

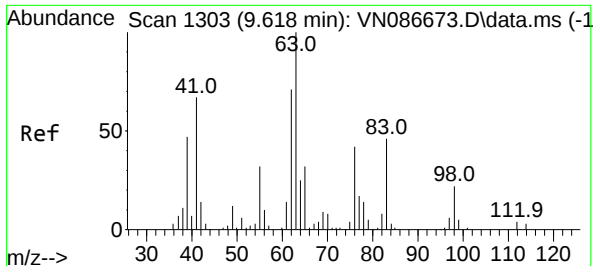
Tgt Ion: 41	Resp: 515
Ion Ratio	Lower Upper
41	100
39	0.0 44.9 67.3#
67	0.0 63.4 95.0#
52	0.0 24.4 36.6#



#43
Isopropyl Acetate
Concen: 2.084 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN086853.D
Acq: 03 Jun 2025 19:23

Tgt Ion: 43	Resp: 16524
Ion Ratio	Lower Upper
43	100
61	22.5 21.4 32.2
87	15.2 11.1 16.7





#45

1,2-Dichloropropane

Concen: 0.633 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.124 min

Lab File: VN086853.D

Acq: 03 Jun 2025 19:23

Instrument :

MSVOA_N

ClientSampleId :

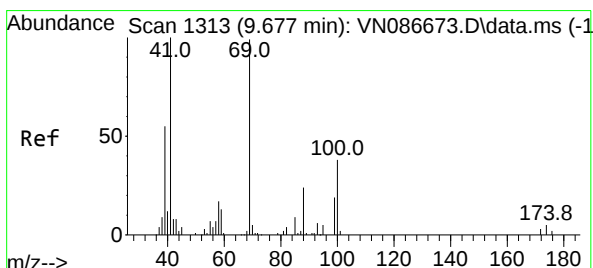
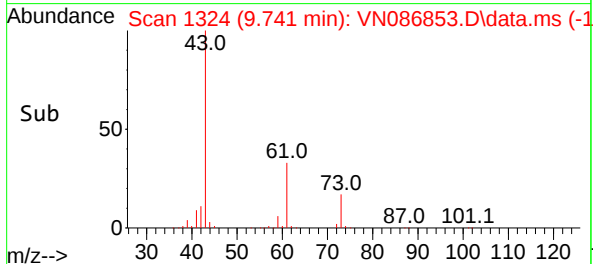
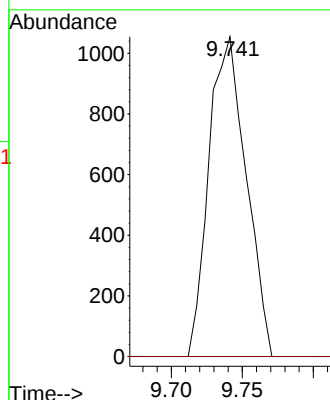
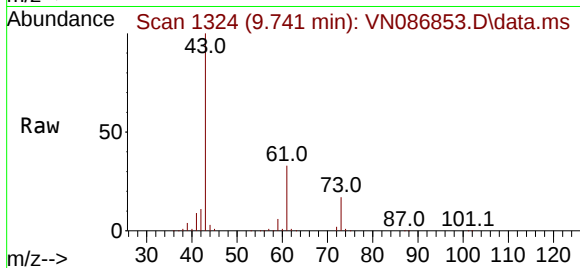
PB168225ZHE#14

Tgt Ion: 63 Resp: 1922

Ion Ratio Lower Upper

63 100

65 0.0 25.8 38.6#



#48

Methyl methacrylate

Concen: 35.398 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN086853.D

Acq: 03 Jun 2025 19:23

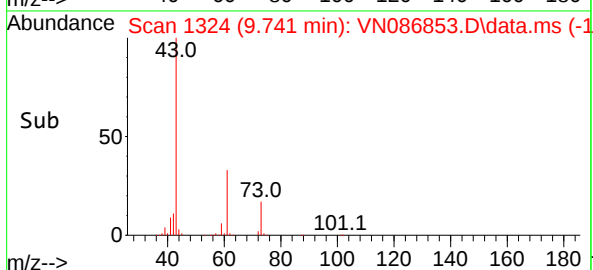
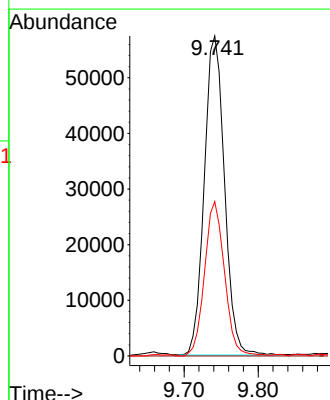
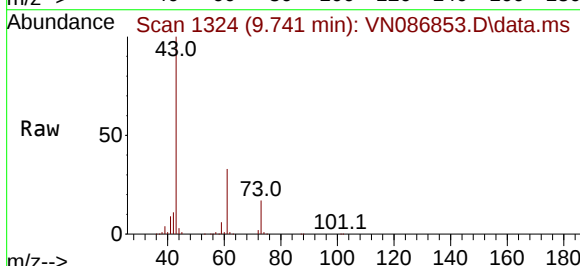
Tgt Ion: 41 Resp: 108778

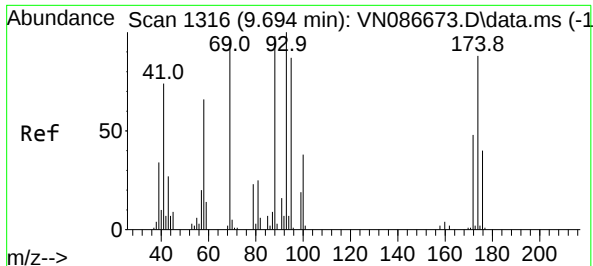
Ion Ratio Lower Upper

41 100

69 0.0 74.1 111.1#

39 47.8 44.1 66.1





#49

1,4-Dioxane

Concen: 6.178 ug/l

RT: 9.688 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN086853.D

Acq: 03 Jun 2025 19:23

Instrument :

MSVOA_N

ClientSampleId :

PB168225ZHE#14

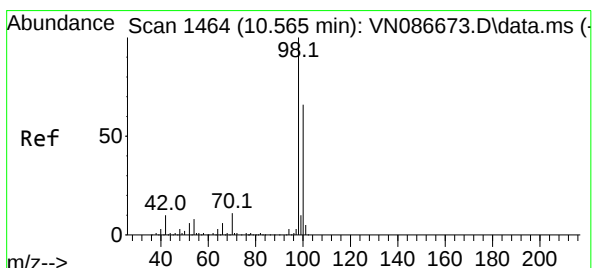
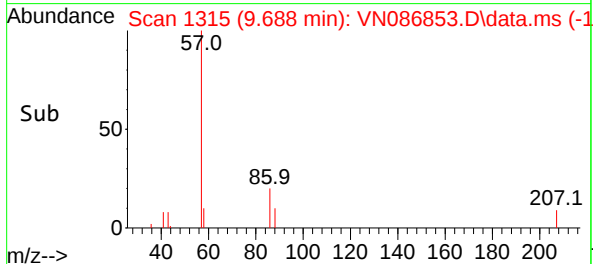
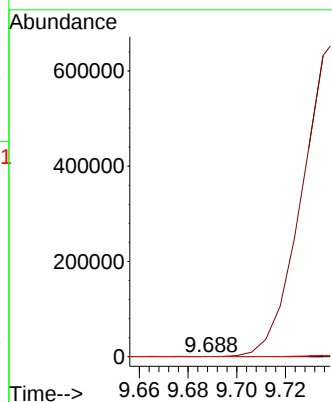
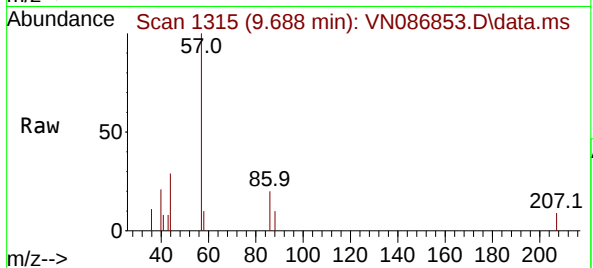
Tgt Ion: 88 Resp: 402

Ion Ratio Lower Upper

88 100

43 0.0 23.6 35.4#

58 225.9 55.3 82.9#



#50

Toluene-d8

Concen: 51.100 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN086853.D

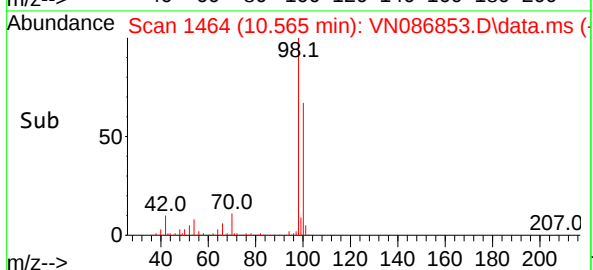
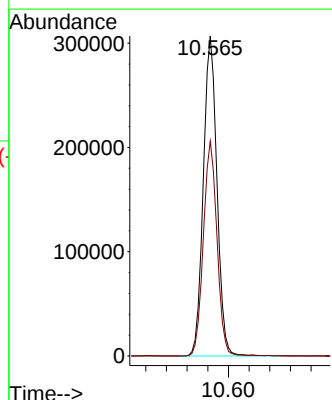
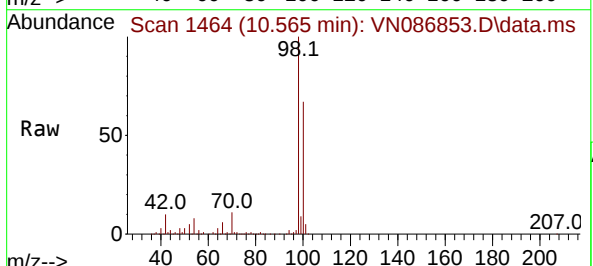
Acq: 03 Jun 2025 19:23

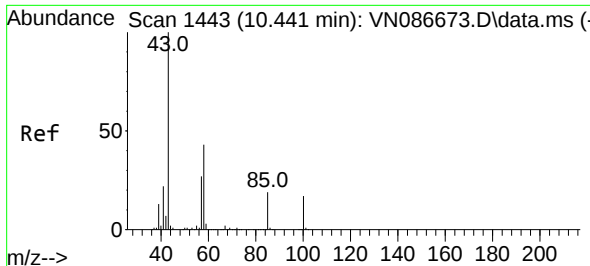
Tgt Ion: 98 Resp: 562207

Ion Ratio Lower Upper

98 100

100 67.1 52.9 79.3

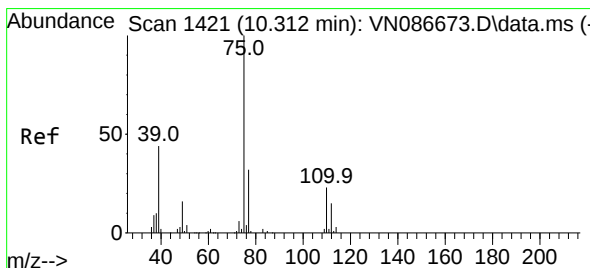
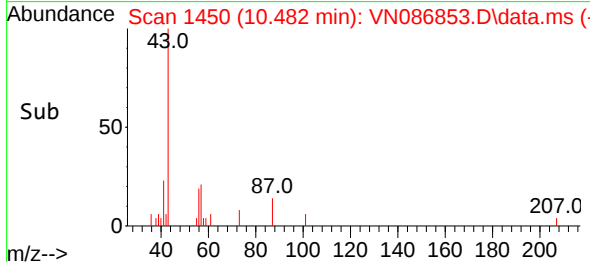
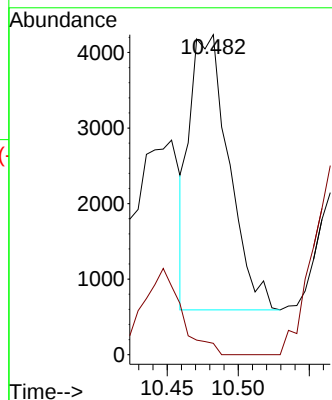
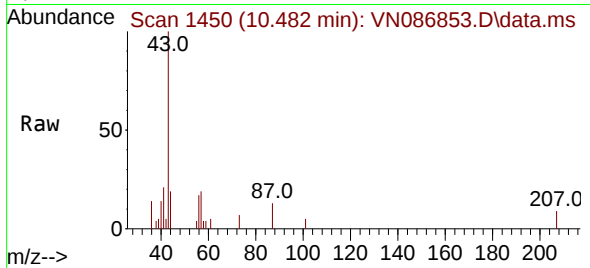




#51
4-Methyl-2-Pentanone
Concen: 1.734 ug/l
RT: 10.482 min Scan# 1443
Delta R.T. 0.041 min
Lab File: VN086853.D
Acq: 03 Jun 2025 19:23

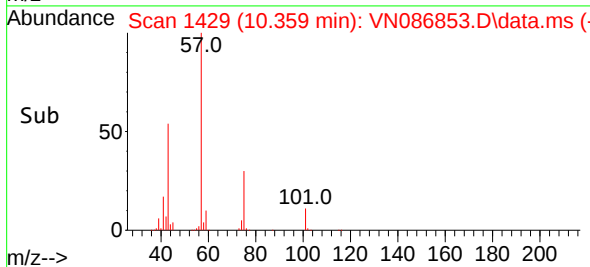
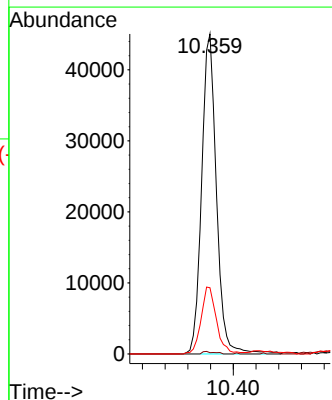
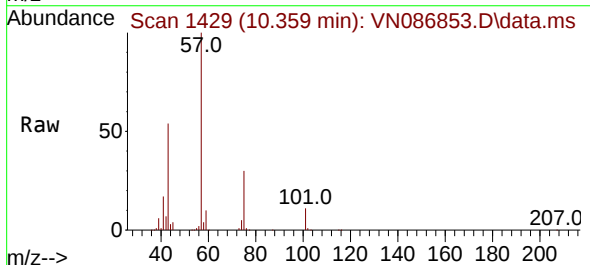
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#14

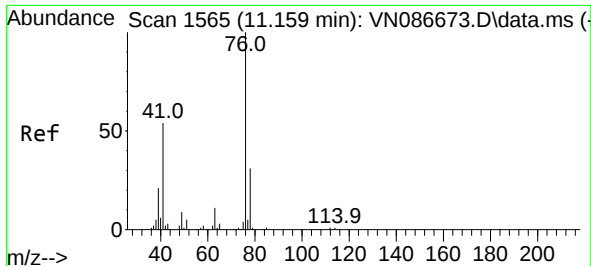
Tgt Ion: 43 Resp: 6936
Ion Ratio Lower Upper
43 100
58 0.0 33.9 50.9#



#54
cis-1,3-Dichloropropene
Concen: 16.679 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN086853.D
Acq: 03 Jun 2025 19:23

Tgt Ion: 75 Resp: 81334
Ion Ratio Lower Upper
75 100
77 0.4 25.3 37.9#
39 20.7 35.2 52.8#





#57

1,3-Dichloropropane

Concen: 1.045 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.047 min

Lab File: VN086853.D

Acq: 03 Jun 2025 19:23

Instrument :

MSVOA_N

ClientSampleId :

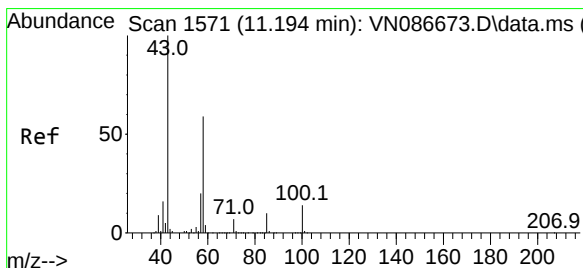
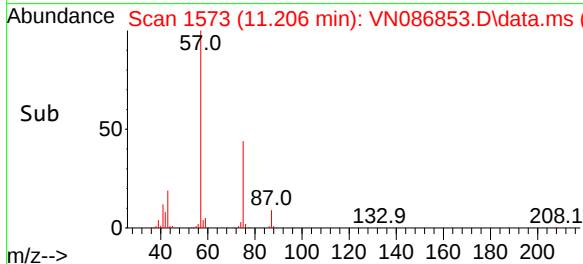
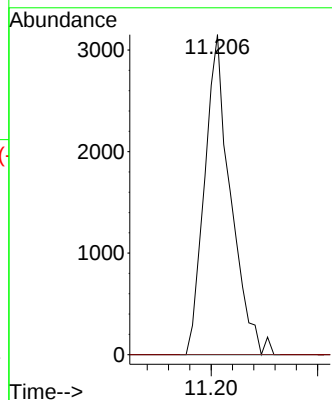
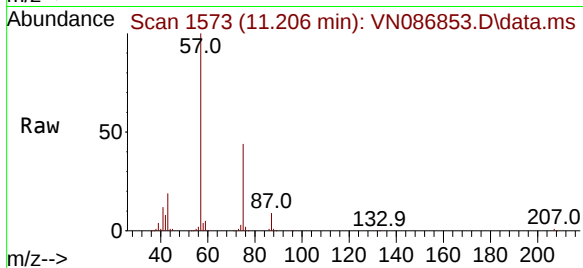
PB168225ZHE#14

Tgt Ion: 76 Resp: 5334

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 27.987 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.012 min

Lab File: VN086853.D

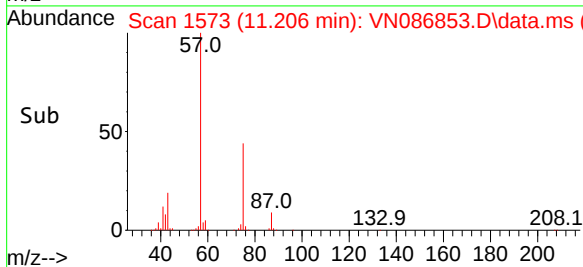
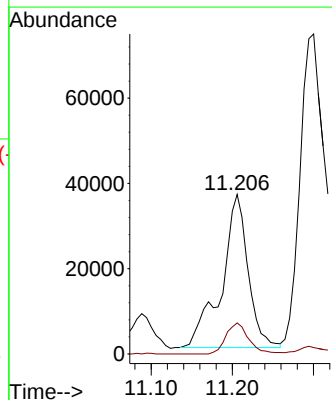
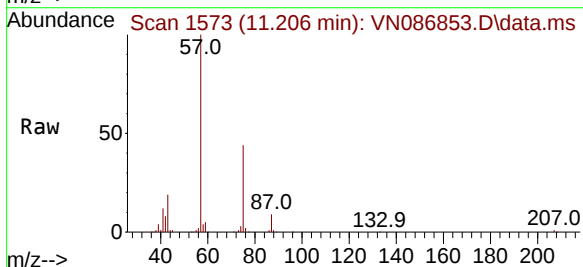
Acq: 03 Jun 2025 19:23

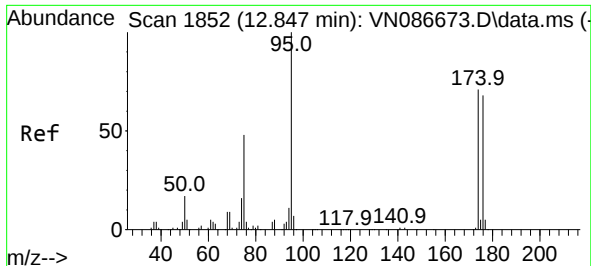
Tgt Ion: 43 Resp: 81734

Ion Ratio Lower Upper

43 100

58 17.5 29.8 89.5#

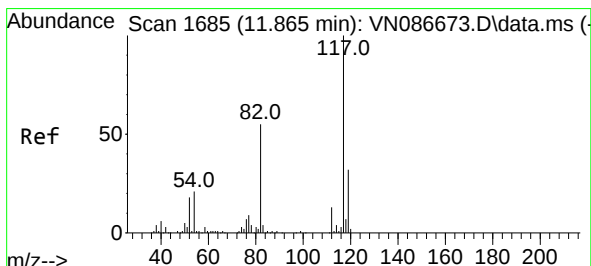
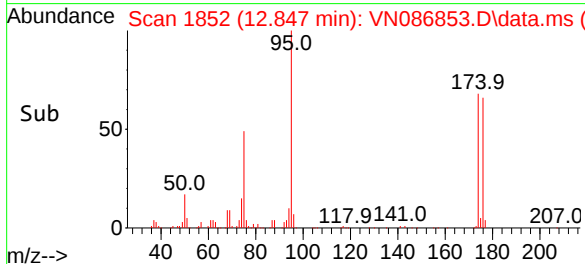
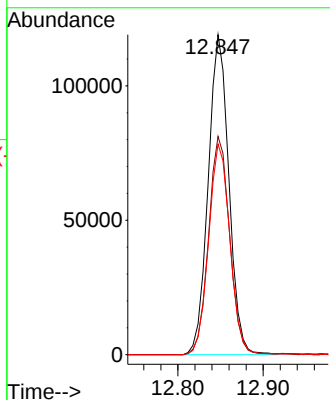
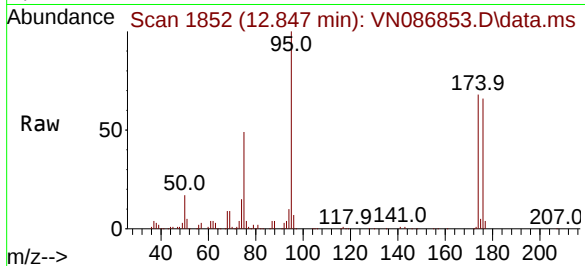




#62
4-Bromofluorobenzene
Concen: 51.652 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086853.D
Acq: 03 Jun 2025 19:23

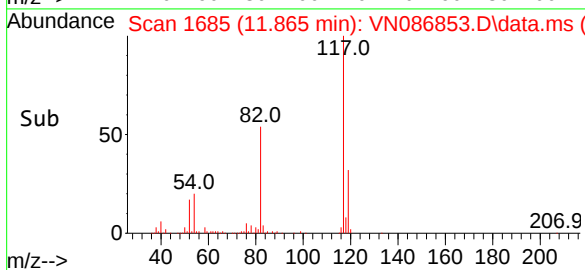
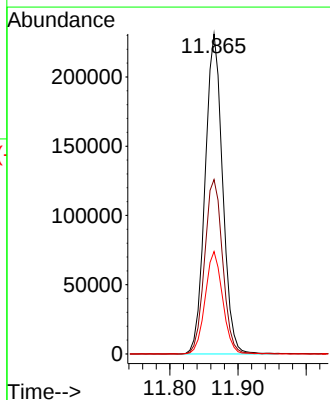
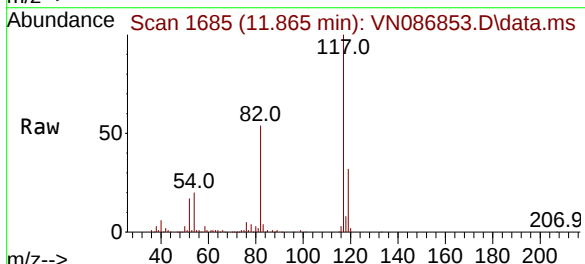
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#14

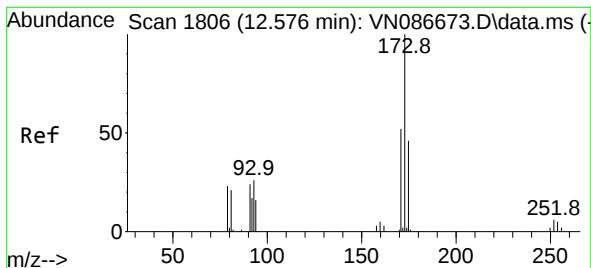
Tgt Ion: 95 Resp: 200657
Ion Ratio Lower Upper
95 100
174 69.4 0.0 145.4
176 67.8 0.0 137.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086853.D
Acq: 03 Jun 2025 19:23

Tgt Ion: 117 Resp: 412233
Ion Ratio Lower Upper
117 100
82 54.5 44.2 66.2
119 32.0 25.4 38.2





#71

Bromoform

Concen: 0.470 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.271 min

Lab File: VN086853.D

Acq: 03 Jun 2025 19:23

Instrument :

MSVOA_N

ClientSampleId :

PB168225ZHE#14

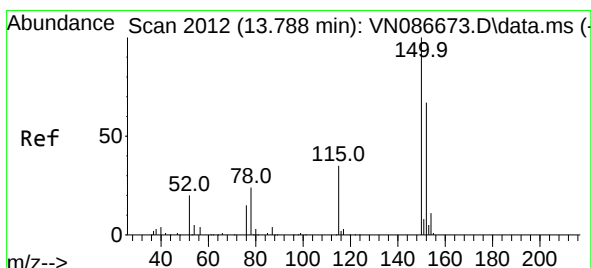
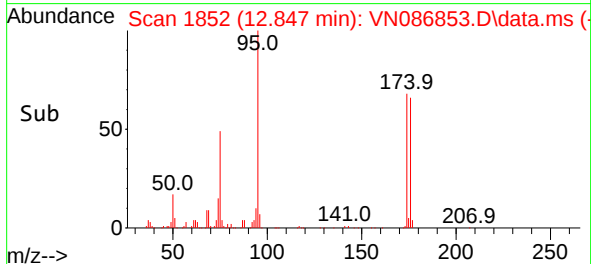
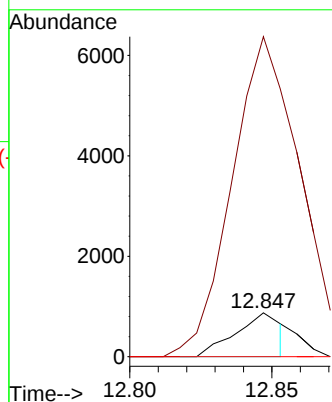
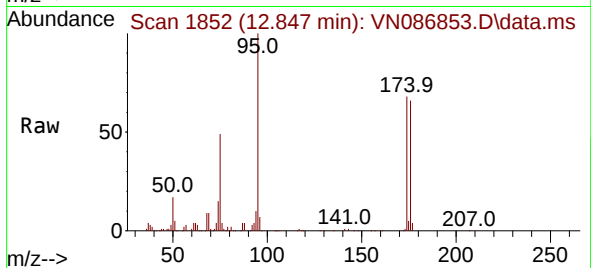
Tgt Ion:173 Resp: 976

Ion Ratio Lower Upper

173 100

175 808.0 23.4 70.2#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.006 min

Lab File: VN086853.D

Acq: 03 Jun 2025 19:23

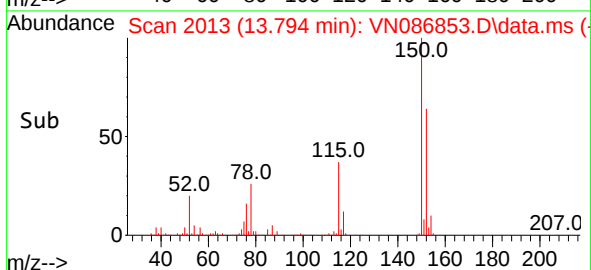
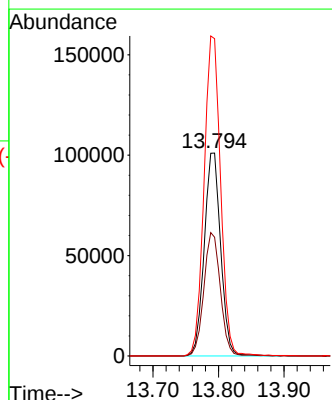
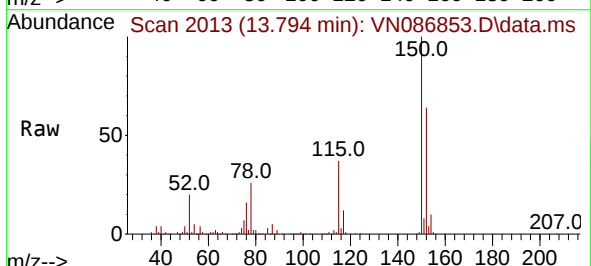
Tgt Ion:152 Resp: 176470

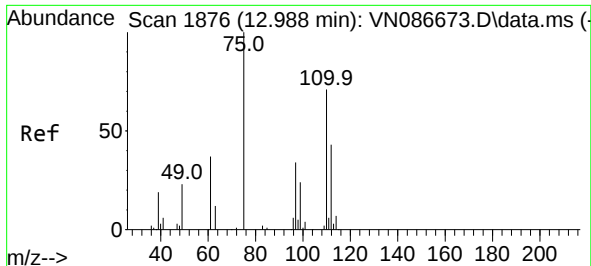
Ion Ratio Lower Upper

152 100

115 61.1 30.0 90.1

150 158.3 0.0 347.8

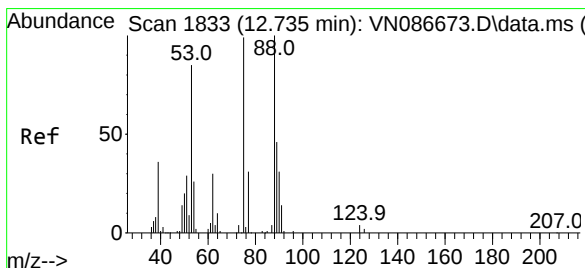
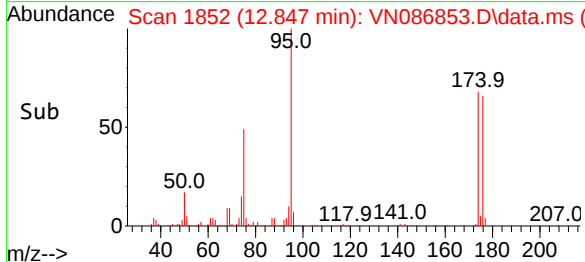
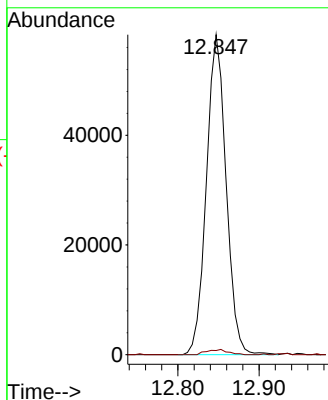
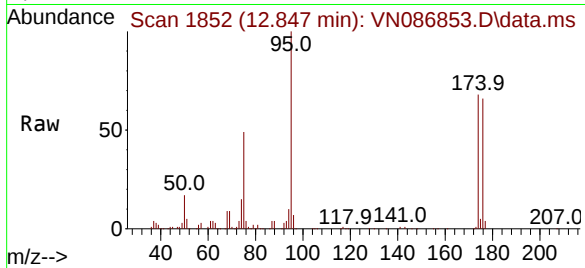




#76
1,2,3-Trichloropropane
Concen: 24.643 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086853.D
Acq: 03 Jun 2025 19:23

Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#14

Tgt Ion: 75 Resp: 98350
Ion Ratio Lower Upper
75 100
77 1.7 96.0 288.1#



#81
trans-1,4-Dichloro-2-butene
Concen: 62.190 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086853.D
Acq: 03 Jun 2025 19:23

Tgt Ion: 75 Resp: 98350
Ion Ratio Lower Upper
75 100
53 0.0 70.4 105.6#
89 0.0 32.4 48.6#

