

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051925\
 Data File : VN086687.D
 Acq On : 19 May 2025 14:15
 Operator : JC\MD
 Sample : PB168034ZHE#04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168034ZHE#04

Quant Time: May 20 03:18:51 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)

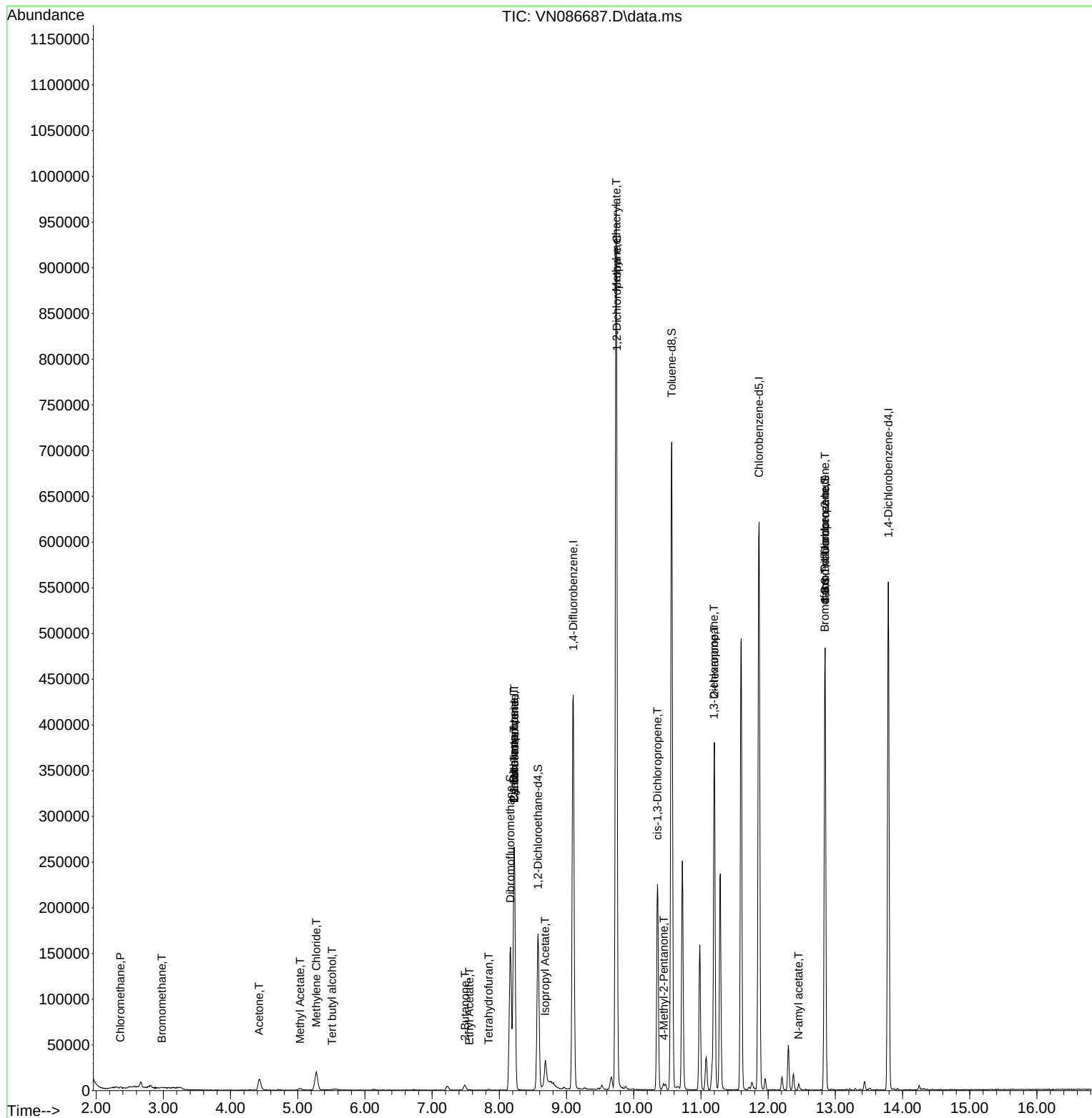
Internal Standards						
1) Pentafluorobenzene	8.224	168	203868	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	389357	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	383243	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	157036	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	140972	50.042	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.080%			
35) Dibromofluoromethane	8.165	113	116465	50.227	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.460%			
50) Toluene-d8	10.565	98	509433	53.015	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.040%			
62) 4-Bromofluorobenzene	12.847	95	181608	53.525	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 107.060%			
Target Compounds						Qvalue
3) Chloromethane	2.360	50	1050	0.315	ug/l #	78
5) Bromomethane	2.977	94	411	0.238	ug/l	95
11) Tert butyl alcohol	5.512	59	607	1.183	ug/l #	73
16) Acetone	4.424	43	24673	23.414	ug/l	98
18) Methyl Acetate	5.036	43	3889	1.319	ug/l #	73
20) Methylene Chloride	5.277	84	16142	5.805	ug/l	95
25) 2-Butanone	7.489	43	9765	5.997	ug/l	95
29) Tetrahydrofuran	7.841	42	930	0.875	ug/l #	44
31) Cyclohexane	8.218	56	4000	0.946	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	16192	4.734	ug/l #	48
37) Ethyl Acetate	7.553	43	1042	0.302	ug/l #	67
38) Carbon Tetrachloride	8.224	117	20629	6.121	ug/l #	16
43) Isopropyl Acetate	8.683	43	46053	6.649	ug/l #	79
45) 1,2-Dichloropropane	9.747	63	1236	0.466	ug/l #	42
48) Methyl methacrylate	9.741	41	85037	31.684	ug/l #	37
51) 4-Methyl-2-Pentanone	10.447	43	4145	1.187	ug/l	96
54) cis-1,3-Dichloropropene	10.353	75	44737	10.504	ug/l #	59
57) 1,3-Dichloropropane	11.194	76	4115	0.923	ug/l #	42
59) 2-Hexanone	11.200	43	74864	29.351	ug/l #	43
71) Bromoform	12.841	173	897	0.465	ug/l #	1
74) N-amyl acetate	12.453	43	4984	0.984	ug/l #	41
76) 1,2,3-Trichloropropane	12.847	75	88046	24.791	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	88046	62.564	ug/l #	15

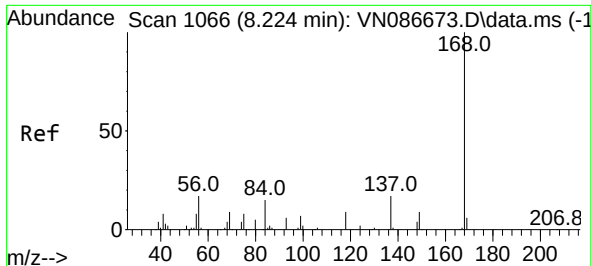
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051925\
Data File : VN086687.D
Acq On : 19 May 2025 14:15
Operator : JC\MD
Sample : PB168034ZHE#04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#04

Quant Time: May 20 03:18:51 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

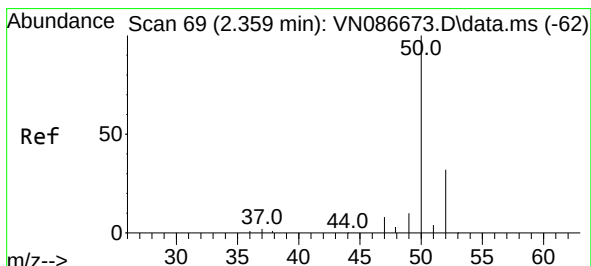
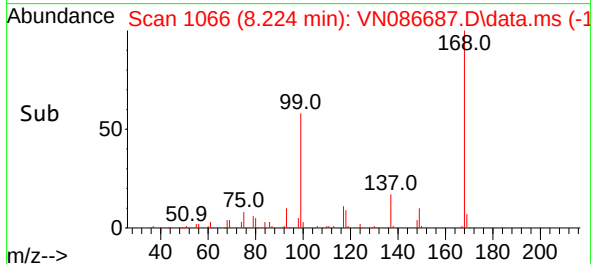
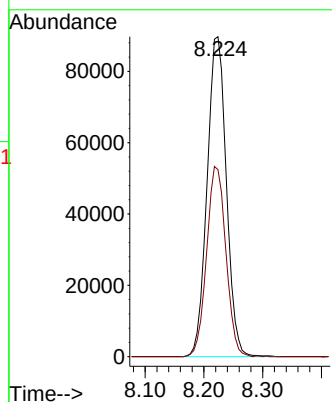
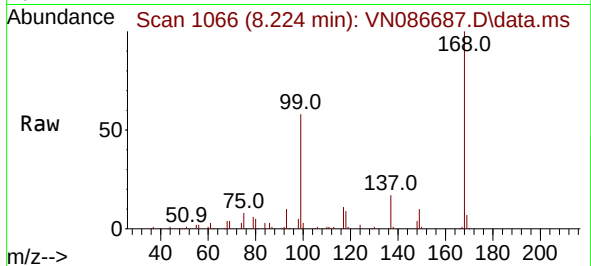




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086687.D
Acq: 19 May 2025 14:15

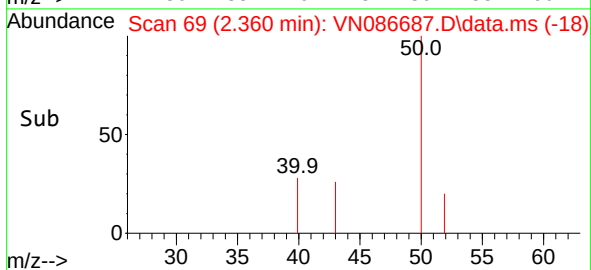
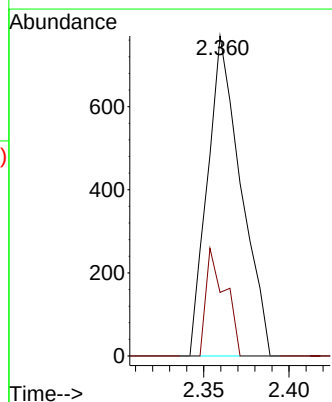
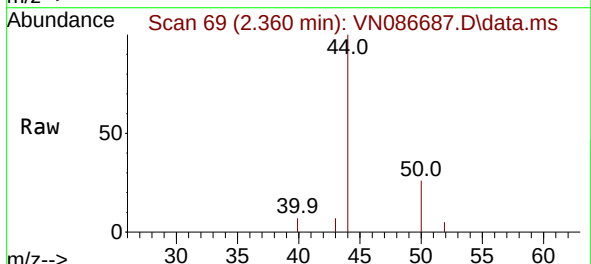
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#04

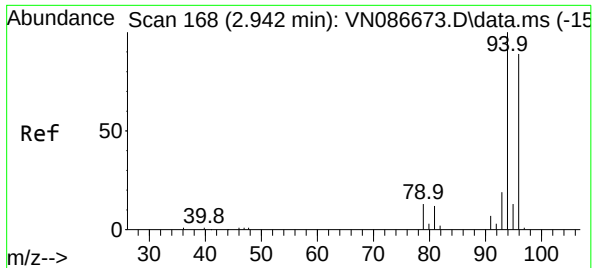
Tgt Ion:168 Resp: 203868
Ion Ratio Lower Upper
168 100
99 58.5 47.0 70.4



#3
Chloromethane
Concen: 0.315 ug/l
RT: 2.360 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086687.D
Acq: 19 May 2025 14:15

Tgt Ion: 50 Resp: 1050
Ion Ratio Lower Upper
50 100
52 19.9 25.9 38.9#

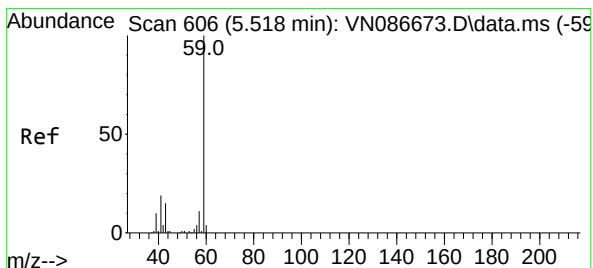
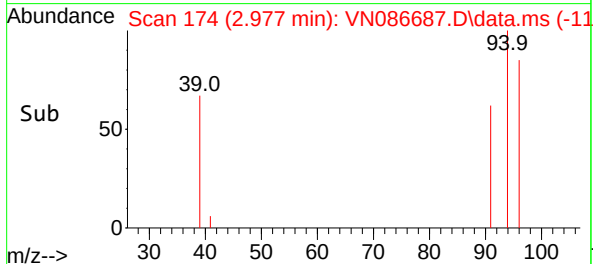
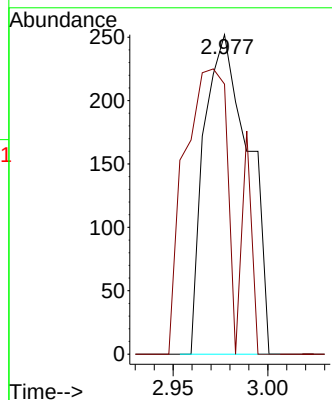
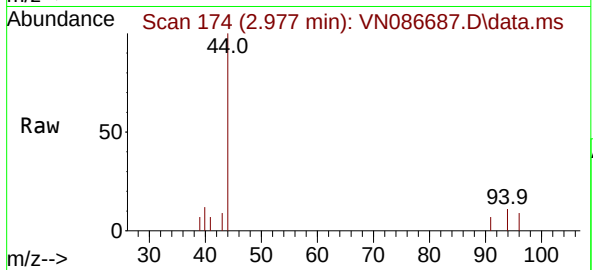




#5
Bromomethane
Concen: 0.238 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.035 min
Lab File: VN086687.D
Acq: 19 May 2025 14:15

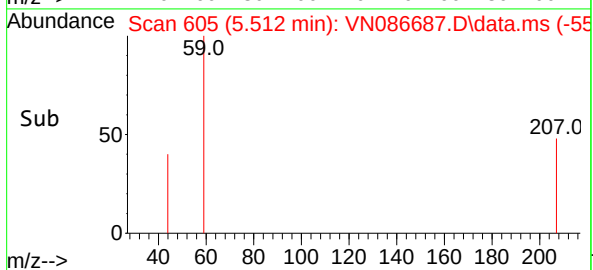
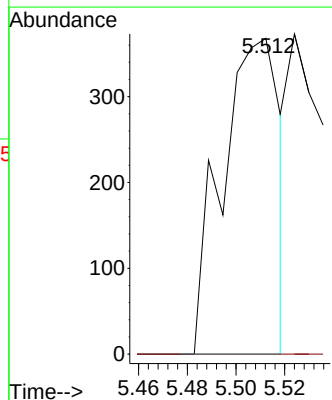
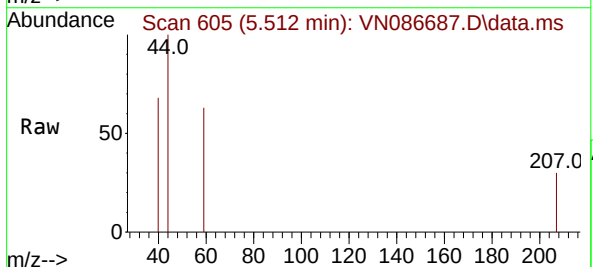
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#04

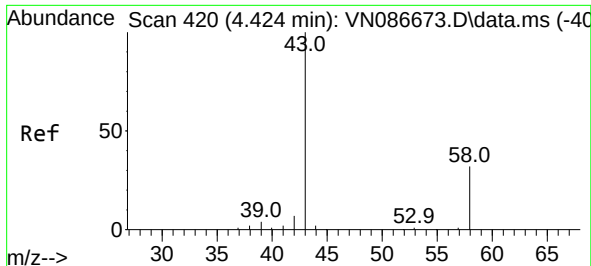
Tgt Ion: 94 Resp: 411
Ion Ratio Lower Upper
94 100
96 84.5 71.2 106.8



#11
Tert butyl alcohol
Concen: 1.183 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.006 min
Lab File: VN086687.D
Acq: 19 May 2025 14:15

Tgt Ion: 59 Resp: 607
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

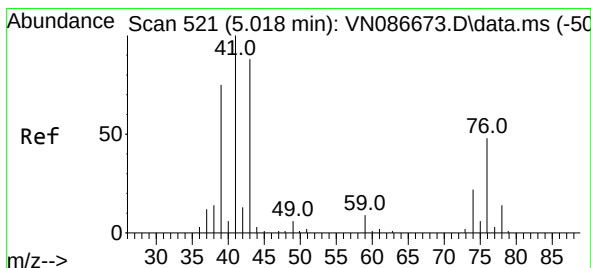
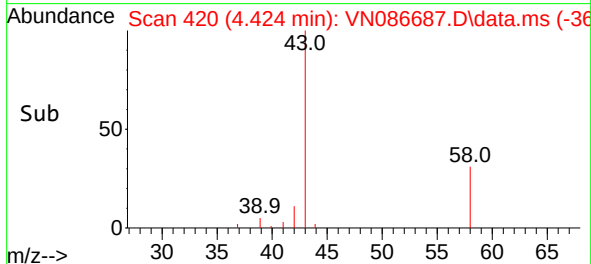
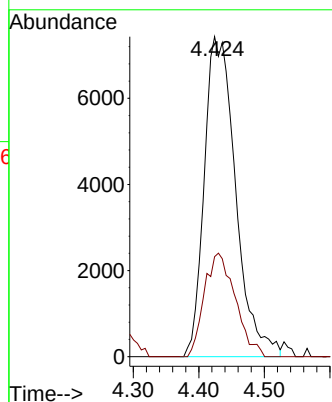
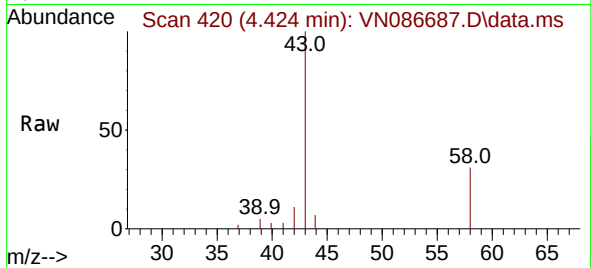




#16
Acetone
Concen: 23.414 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN086687.D
Acq: 19 May 2025 14:15

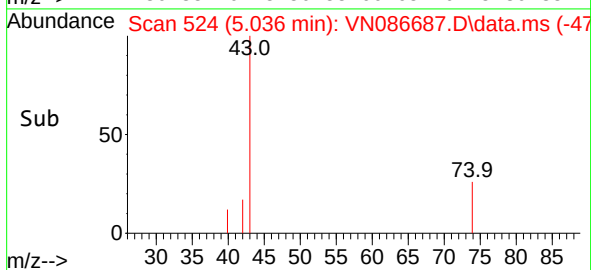
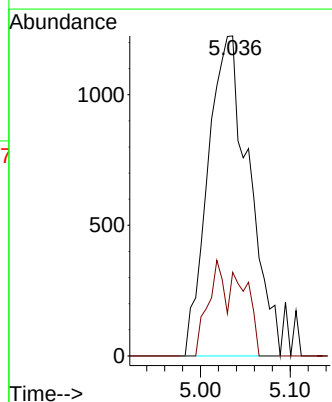
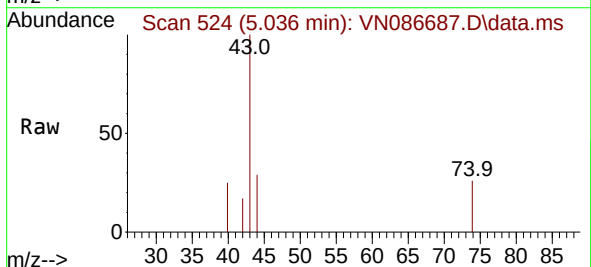
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#04

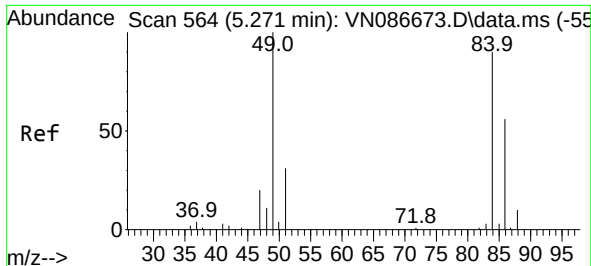
Tgt Ion: 43 Resp: 24673
Ion Ratio Lower Upper
43 100
58 31.3 25.8 38.6



#18
Methyl Acetate
Concen: 1.319 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.018 min
Lab File: VN086687.D
Acq: 19 May 2025 14:15

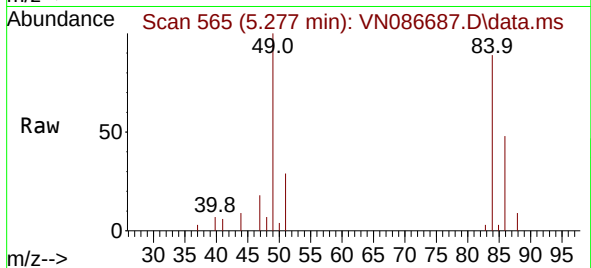
Tgt Ion: 43 Resp: 3889
Ion Ratio Lower Upper
43 100
74 11.8 20.5 30.7#



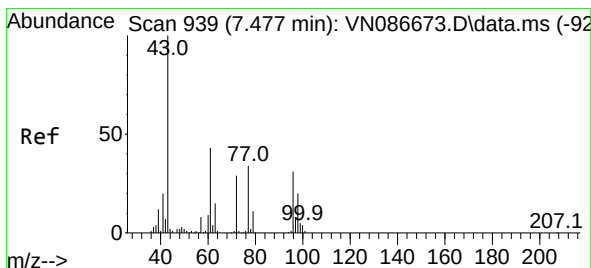
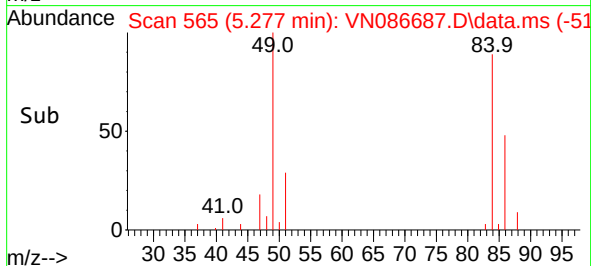
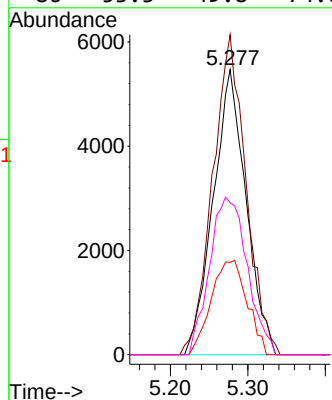


#20
Methylene Chloride
Concen: 5.805 ug/l
RT: 5.277 min Scan# 50
Delta R.T. 0.006 min
Lab File: VN086687.D
Acq: 19 May 2025 14:15

Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#04

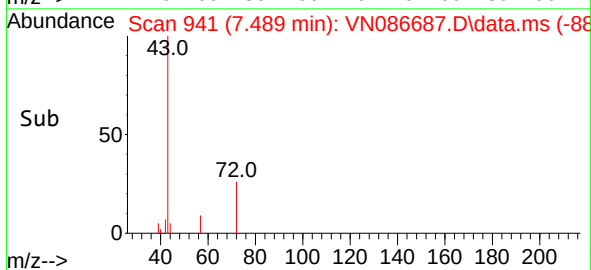
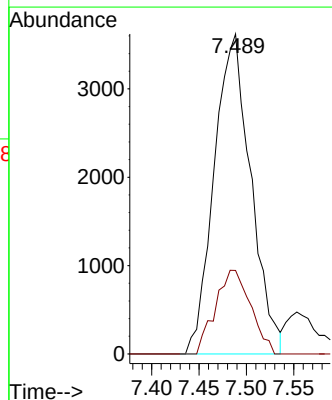
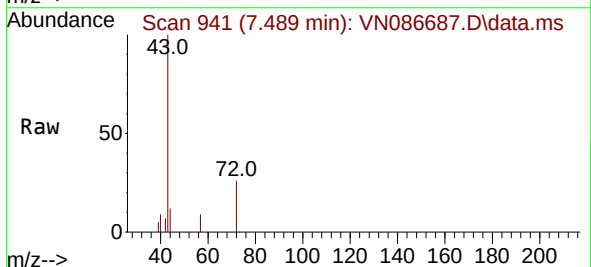


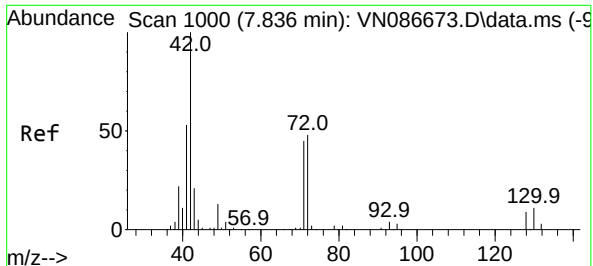
Tgt Ion: 84	Resp: 16142		
Ion	Ratio	Lower	Upper
84	100		
49	112.2	88.8	133.2
51	32.4	27.8	41.6
86	53.3	49.8	74.6



#25
2-Butanone
Concen: 5.997 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086687.D
Acq: 19 May 2025 14:15

Tgt Ion: 43	Resp: 9765		
Ion Ratio	Lower	Upper	
43 100			
72 26.1	23.1	34.7	





#29

Tetrahydrofuran

Concen: 0.875 ug/l

RT: 7.841 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN086687.D

Acq: 19 May 2025 14:15

Instrument :

MSVOA_N

ClientSampleId :

PB168034ZHE#04

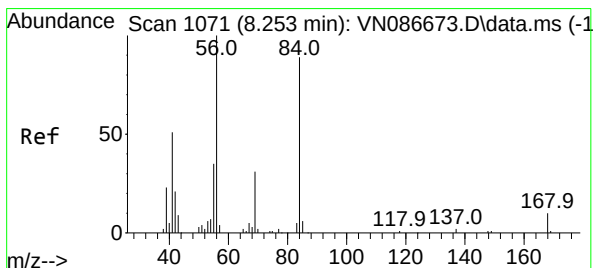
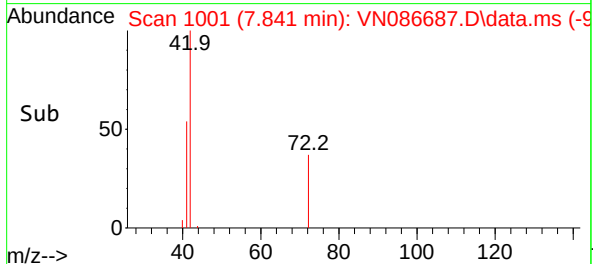
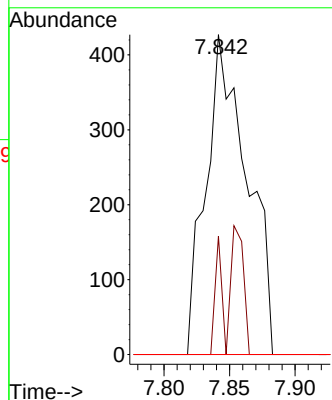
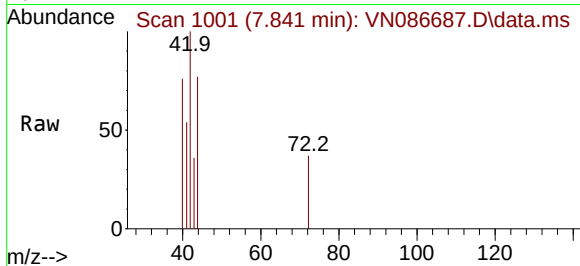
Tgt Ion: 42 Resp: 930

Ion Ratio Lower Upper

42 100

72 18.3 38.7 58.1#

71 0.0 36.2 54.4#



#31

Cyclohexane

Concen: 0.946 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.035 min

Lab File: VN086687.D

Acq: 19 May 2025 14:15

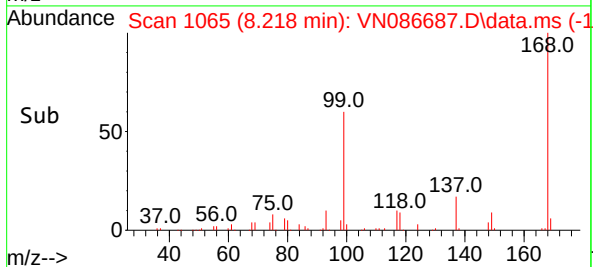
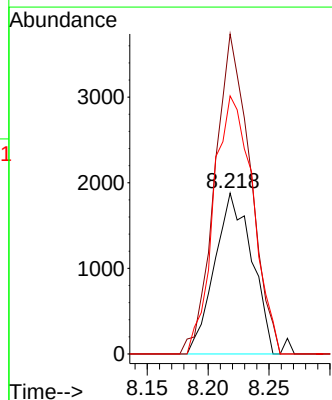
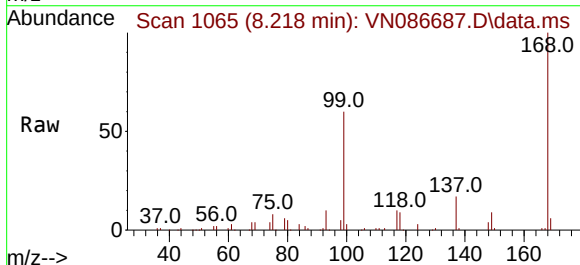
Tgt Ion: 56 Resp: 4000

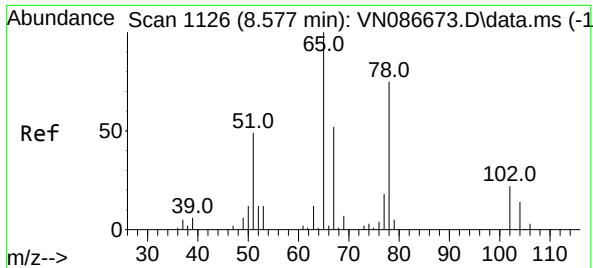
Ion Ratio Lower Upper

56 100

69 199.0 25.0 37.6#

84 160.5 71.0 106.4#

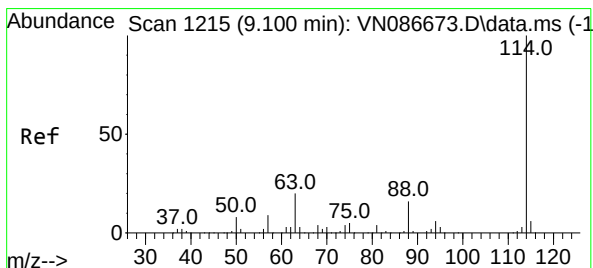
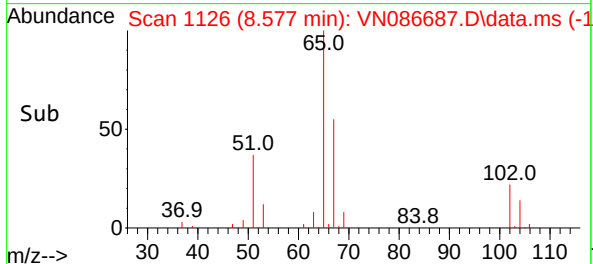
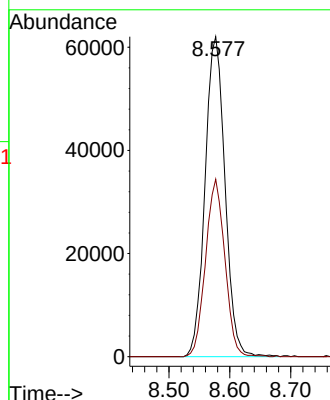
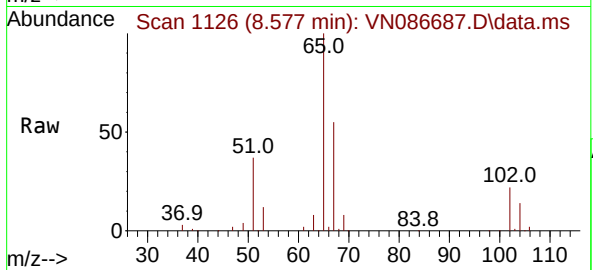




#33
 1,2-Dichloroethane-d4
 Concen: 50.042 ug/l
 RT: 8.577 min Scan# 1126
 Delta R.T. 0.000 min
 Lab File: VN086687.D
 Acq: 19 May 2025 14:15

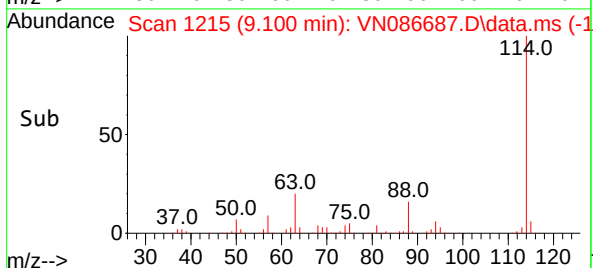
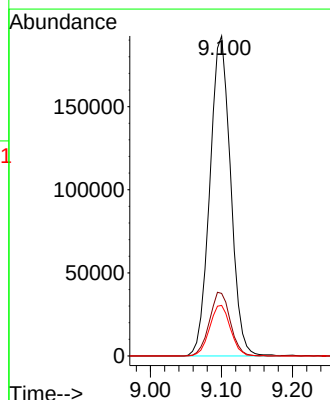
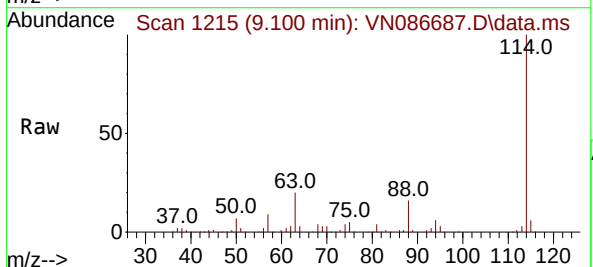
Instrument :
 MSVOA_N
 ClientSampleId :
 PB168034ZHE#04

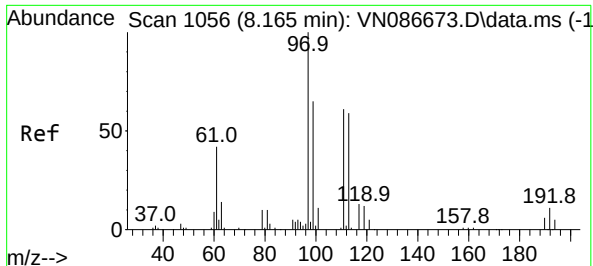
Tgt Ion: 65 Resp: 140972
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 106.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. 0.000 min
 Lab File: VN086687.D
 Acq: 19 May 2025 14:15

Tgt Ion: 114 Resp: 389357
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 40.2
 88 15.8 0.0 31.2





#35

Dibromofluoromethane

Concen: 50.227 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086687.D

Acq: 19 May 2025 14:15

Instrument :

MSVOA_N

ClientSampleId :

PB168034ZHE#04

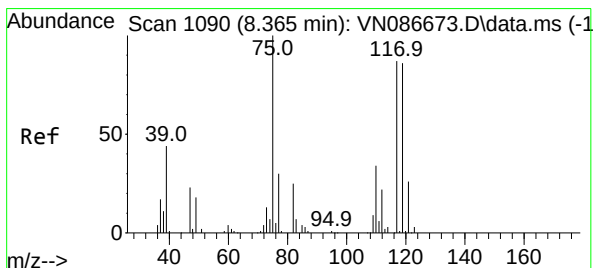
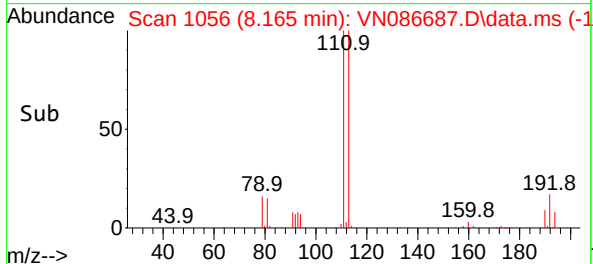
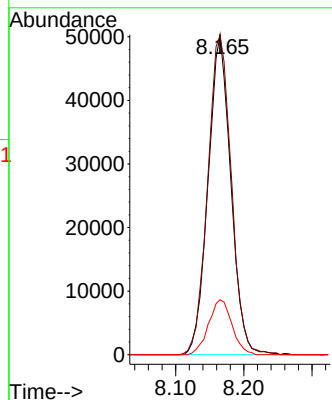
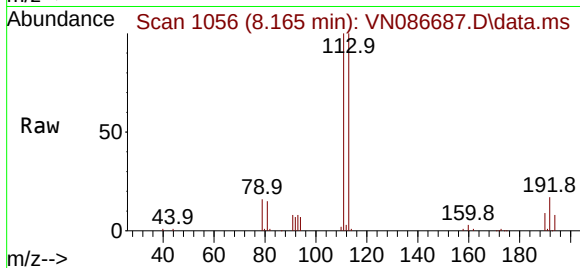
Tgt Ion:113 Resp: 116465

Ion Ratio Lower Upper

113 100

111 103.9 82.2 123.2

192 17.7 13.8 20.8



#36

1,1-Dichloropropene

Concen: 4.734 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086687.D

Acq: 19 May 2025 14:15

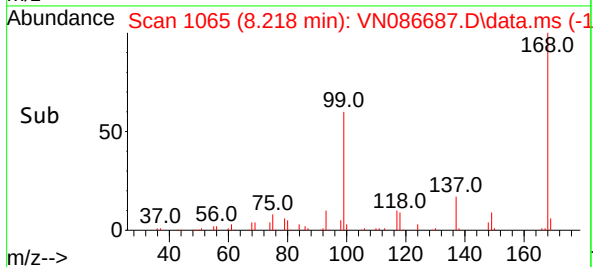
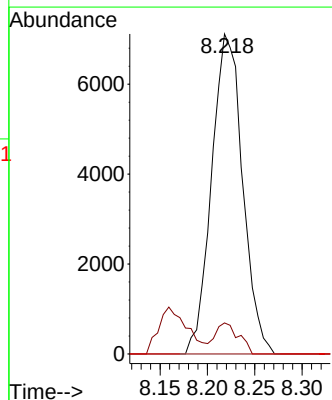
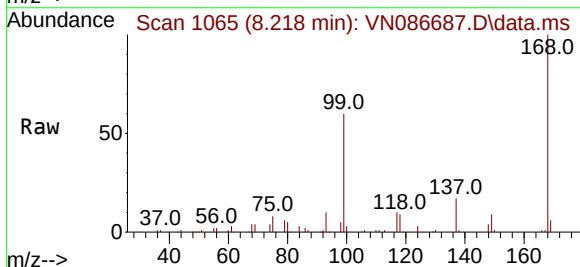
Tgt Ion: 75 Resp: 16192

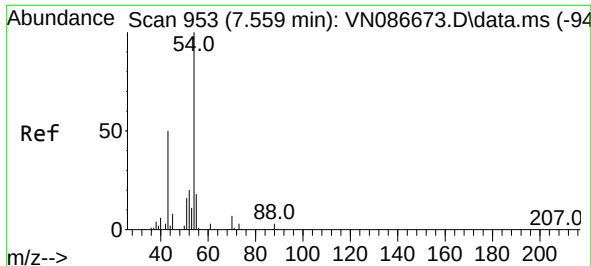
Ion Ratio Lower Upper

75 100

110 7.2 17.5 52.5#

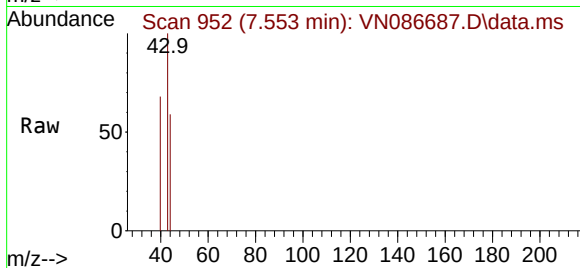
77 0.0 25.1 37.7#



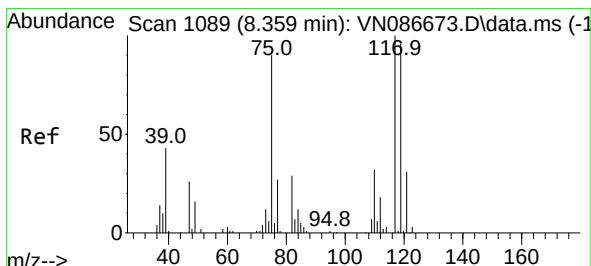
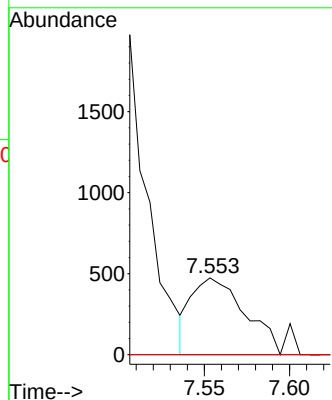
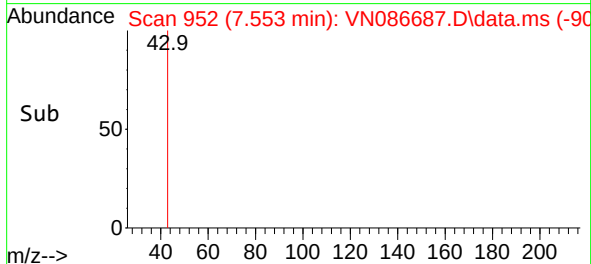


#37
Ethyl Acetate
Concen: 0.302 ug/l
RT: 7.553 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN086687.D
Acq: 19 May 2025 14:15

Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#04

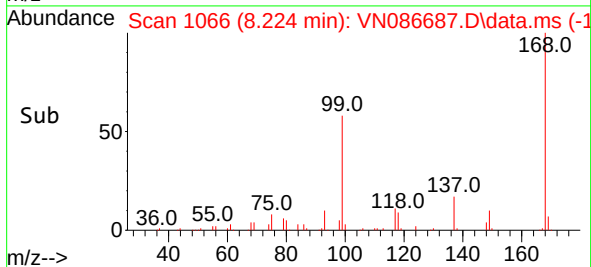
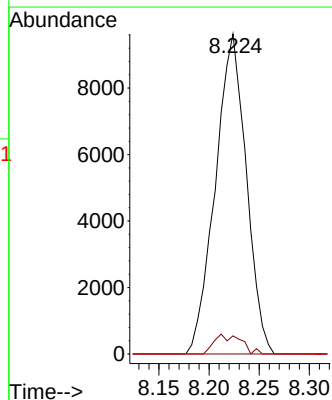
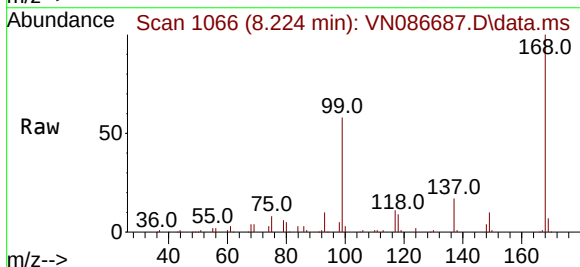


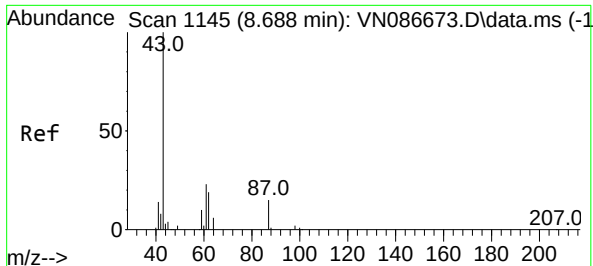
Tgt Ion: 43 Resp: 1042
Ion Ratio Lower Upper
43 100
61 0.0 11.6 17.4#
70 0.0 9.4 14.0#



#38
Carbon Tetrachloride
Concen: 6.121 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN086687.D
Acq: 19 May 2025 14:15

Tgt Ion: 117 Resp: 20629
Ion Ratio Lower Upper
117 100
119 5.6 77.0 115.6#
121 0.0 25.0 37.6#





#43

Isopropyl Acetate

Concen: 6.649 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. -0.006 min

Lab File: VN086687.D

Acq: 19 May 2025 14:15

Instrument :

MSVOA_N

ClientSampleId :

PB168034ZHE#04

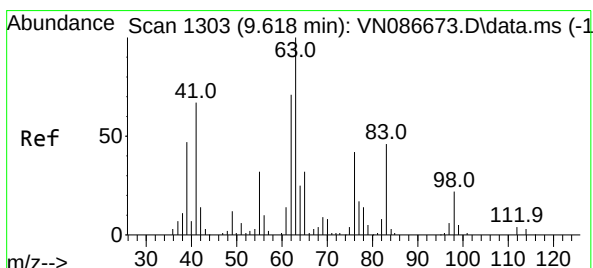
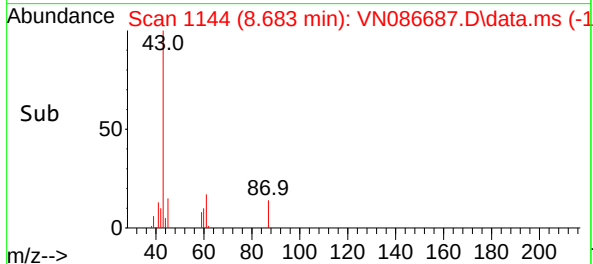
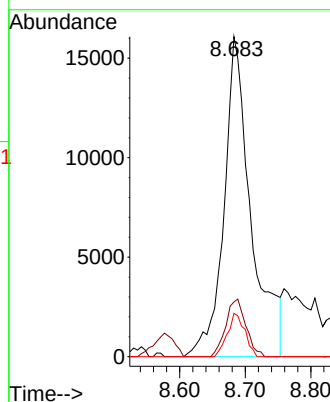
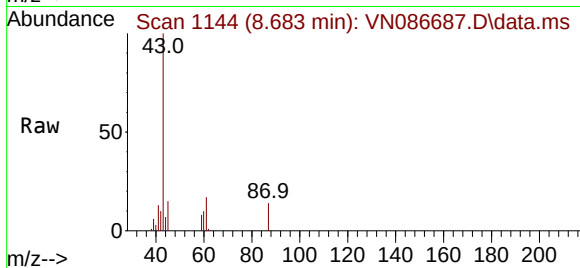
Tgt Ion: 43 Resp: 46053

Ion Ratio Lower Upper

43 100

61 13.4 21.4 32.2#

87 8.7 11.1 16.7#



#45

1,2-Dichloropropane

Concen: 0.466 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.129 min

Lab File: VN086687.D

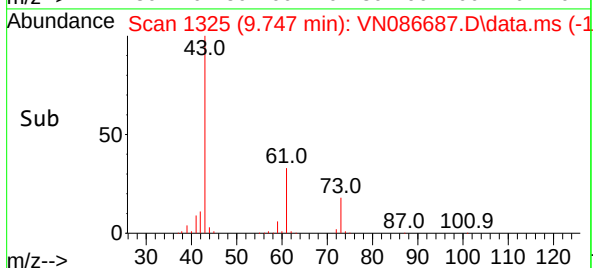
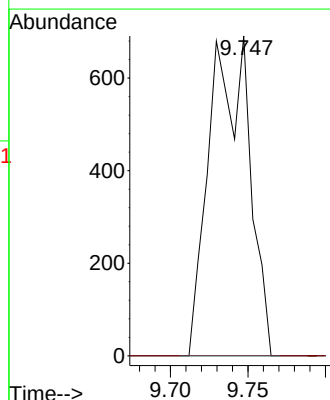
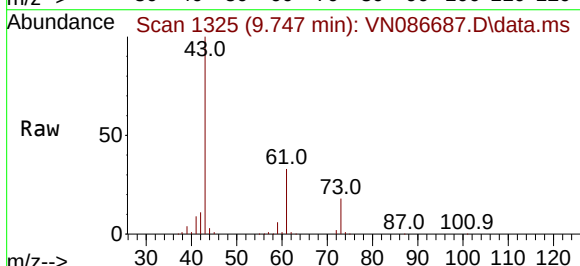
Acq: 19 May 2025 14:15

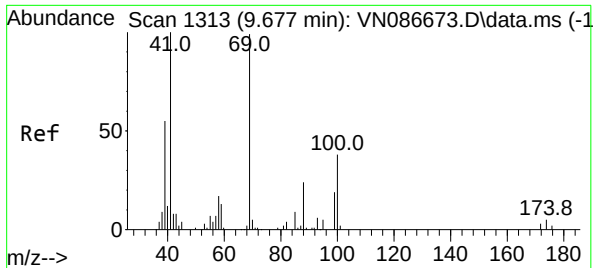
Tgt Ion: 63 Resp: 1236

Ion Ratio Lower Upper

63 100

65 0.0 25.8 38.6#

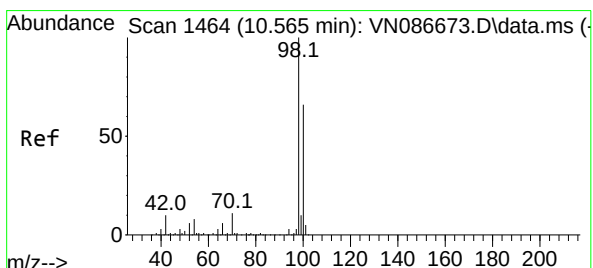
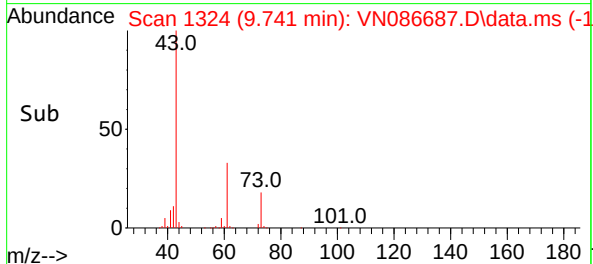
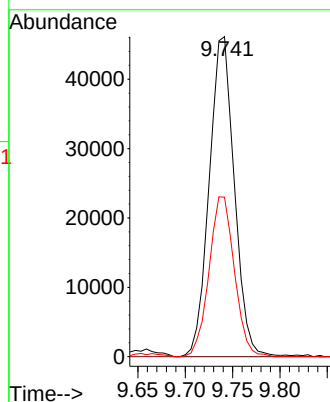
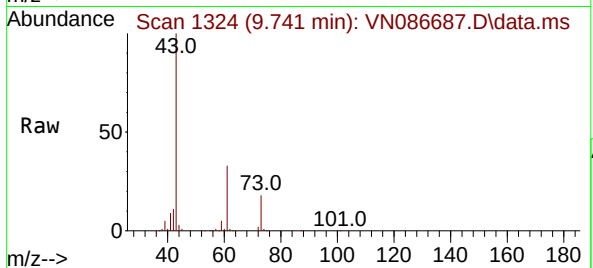




#48
Methyl methacrylate
Concen: 31.684 ug/l
RT: 9.741 min Scan# 1313
Delta R.T. 0.065 min
Lab File: VN086687.D
Acq: 19 May 2025 14:15

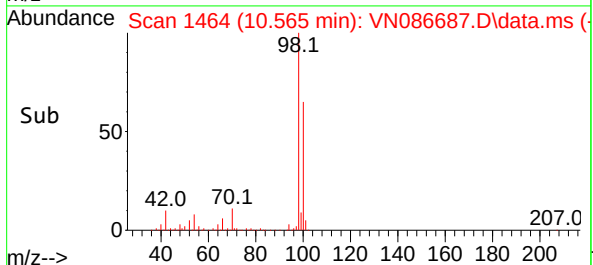
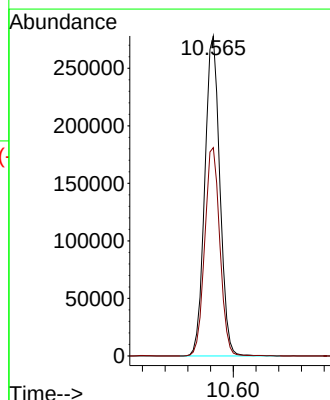
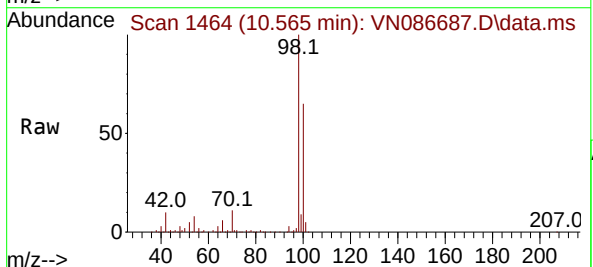
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#04

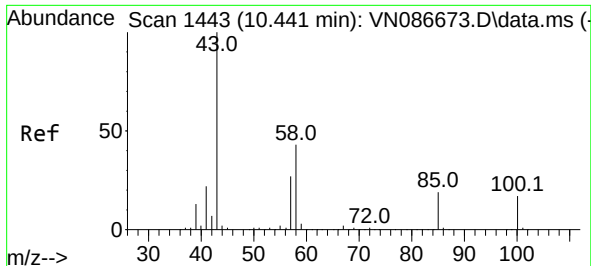
Tgt Ion: 41 Resp: 85037
Ion Ratio Lower Upper
41 100
69 0.0 74.1 111.1#
39 50.4 44.1 66.1



#50
Toluene-d8
Concen: 53.015 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086687.D
Acq: 19 May 2025 14:15

Tgt Ion: 98 Resp: 509433
Ion Ratio Lower Upper
98 100
100 65.4 52.9 79.3





#51

4-Methyl-2-Pentanone

Concen: 1.187 ug/l

RT: 10.447 min Scan# 1443

Delta R.T. 0.006 min

Lab File: VN086687.D

Acq: 19 May 2025 14:15

Instrument :

MSVOA_N

ClientSampleId :

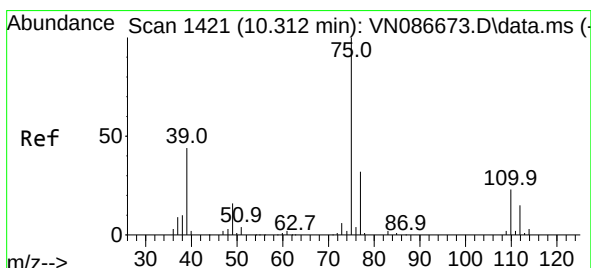
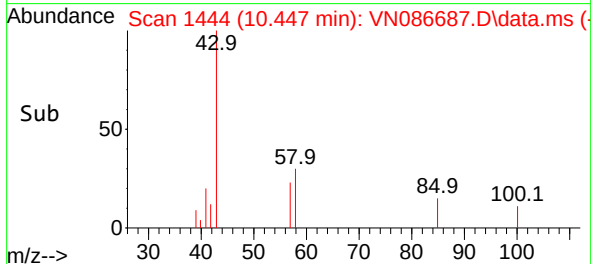
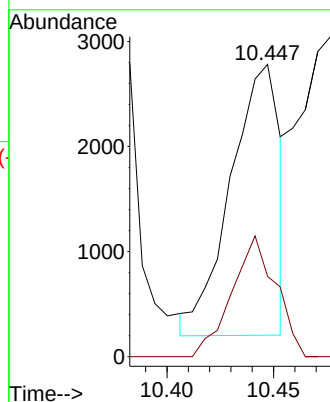
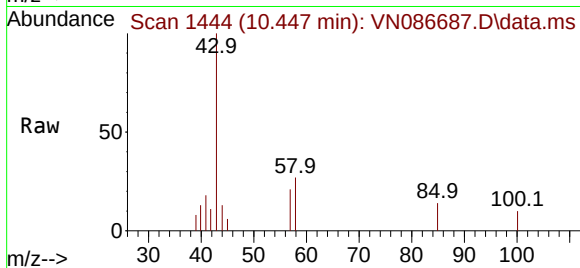
PB168034ZHE#04

Tgt Ion: 43 Resp: 4145

Ion Ratio Lower Upper

43 100

58 39.7 33.9 50.9



#54

cis-1,3-Dichloropropene

Concen: 10.504 ug/l

RT: 10.353 min Scan# 1428

Delta R.T. 0.041 min

Lab File: VN086687.D

Acq: 19 May 2025 14:15

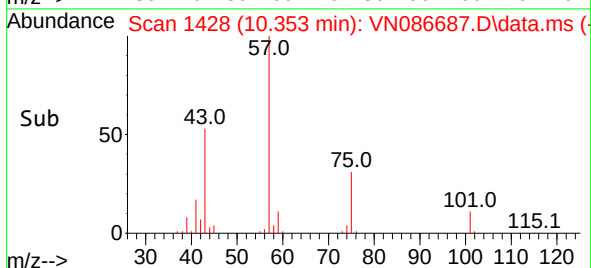
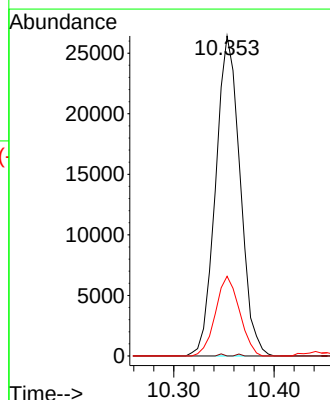
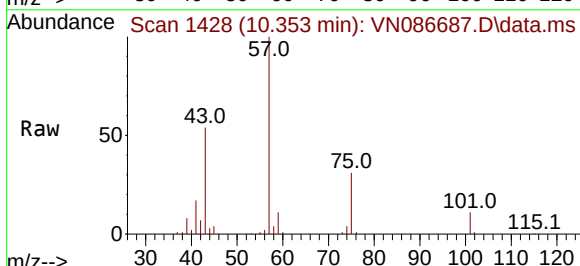
Tgt Ion: 75 Resp: 44737

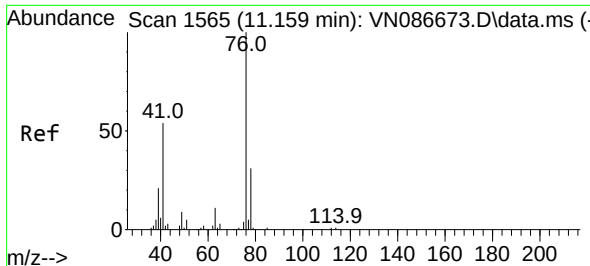
Ion Ratio Lower Upper

75 100

77 0.0 25.3 37.9#

39 24.9 35.2 52.8#





#57

1,3-Dichloropropane

Concen: 0.923 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.035 min

Lab File: VN086687.D

Acq: 19 May 2025 14:15

Instrument :

MSVOA_N

ClientSampleId :

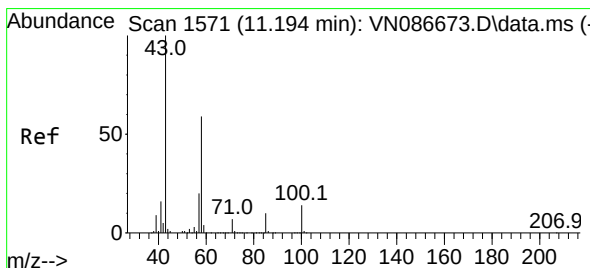
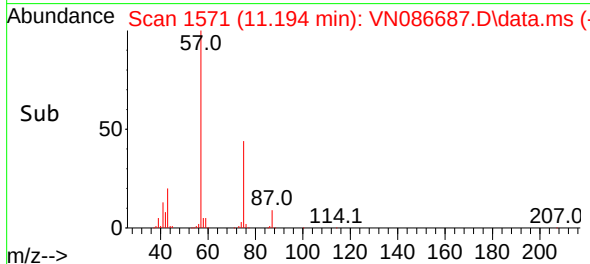
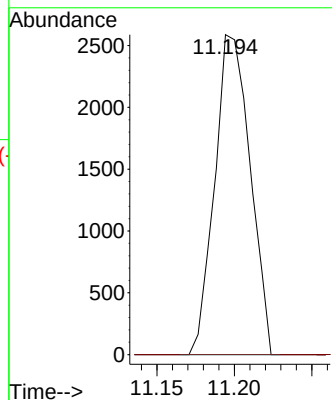
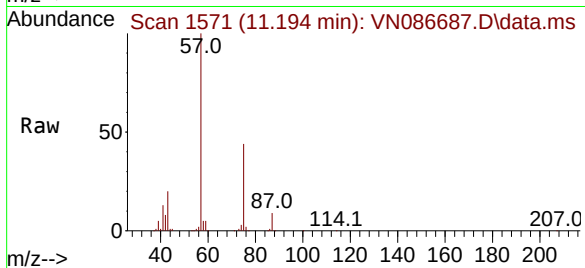
PB168034ZHE#04

Tgt Ion: 76 Resp: 4115

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 29.351 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086687.D

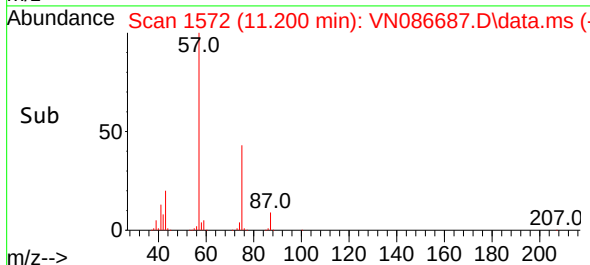
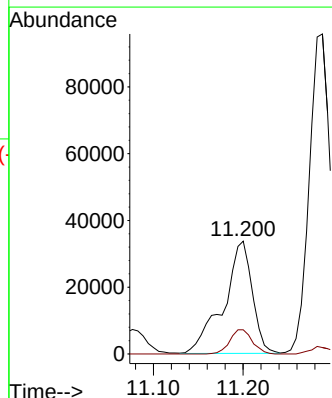
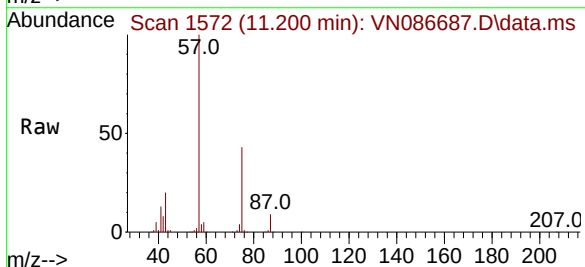
Acq: 19 May 2025 14:15

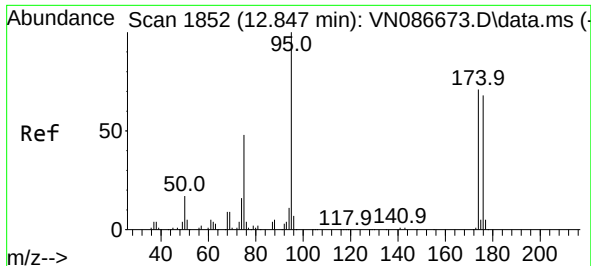
Tgt Ion: 43 Resp: 74864

Ion Ratio Lower Upper

43 100

58 16.9 29.8 89.5#

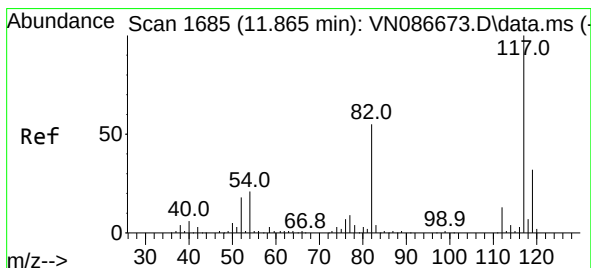
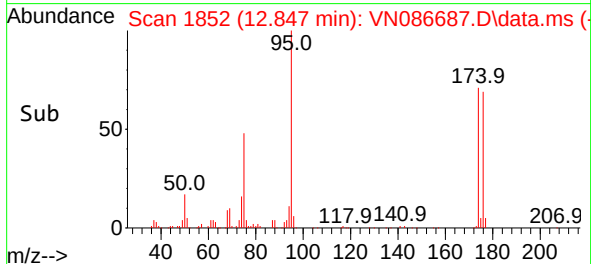
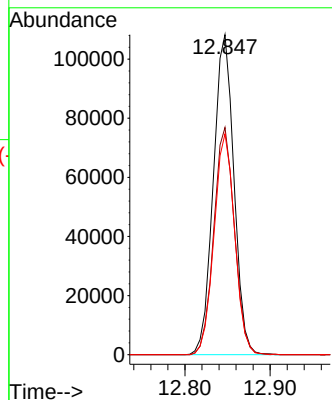
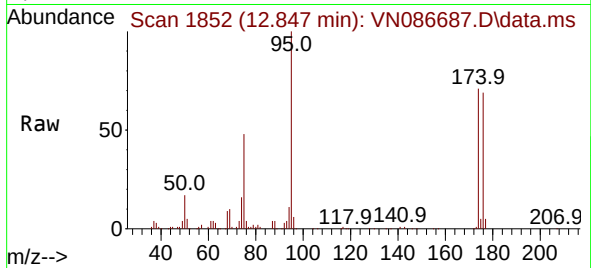




#62
4-Bromofluorobenzene
Concen: 53.525 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086687.D
Acq: 19 May 2025 14:15

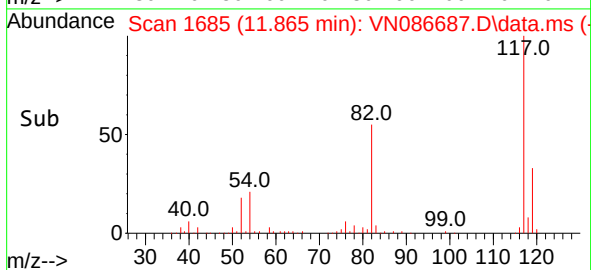
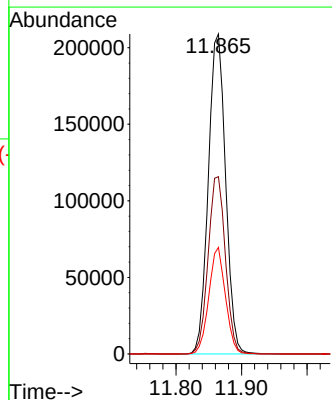
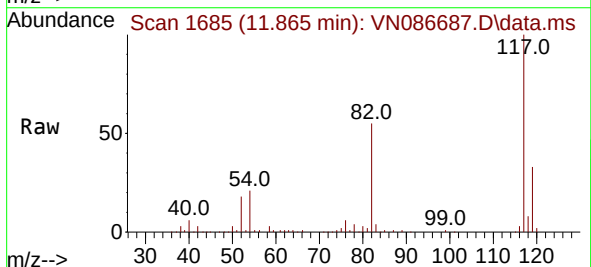
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#04

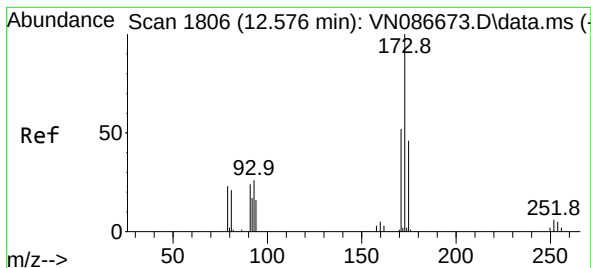
Tgt Ion: 95 Resp: 181608
Ion Ratio Lower Upper
95 100
174 71.5 0.0 145.4
176 69.1 0.0 137.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086687.D
Acq: 19 May 2025 14:15

Tgt Ion: 117 Resp: 383243
Ion Ratio Lower Upper
117 100
82 55.4 44.2 66.2
119 33.3 25.4 38.2





#71

Bromoform

Concen: 0.465 ug/l

RT: 12.841 min Scan# 1806

Delta R.T. 0.265 min

Lab File: VN086687.D

Acq: 19 May 2025 14:15

Instrument :

MSVOA_N

ClientSampleId :

PB168034ZHE#04

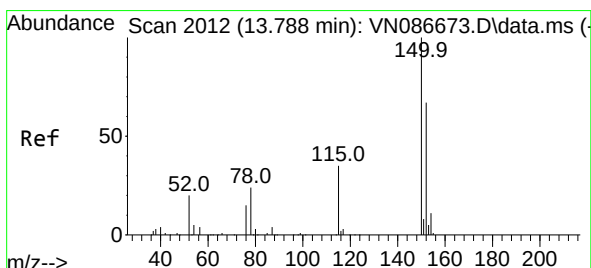
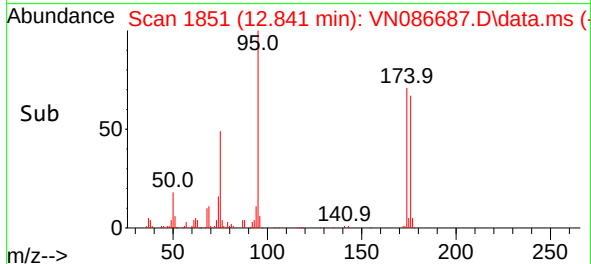
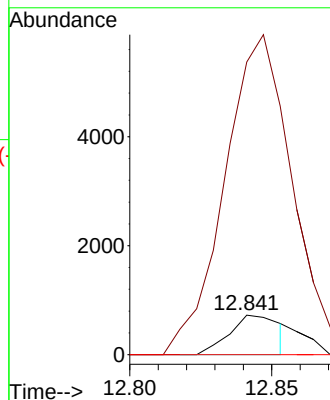
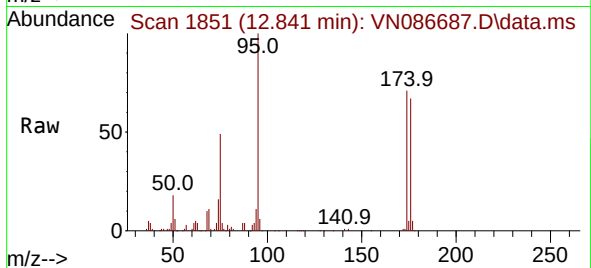
Tgt Ion:173 Resp: 897

Ion Ratio Lower Upper

173 100

175 901.7 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# 1212

Delta R.T. 0.000 min

Lab File: VN086687.D

Acq: 19 May 2025 14:15

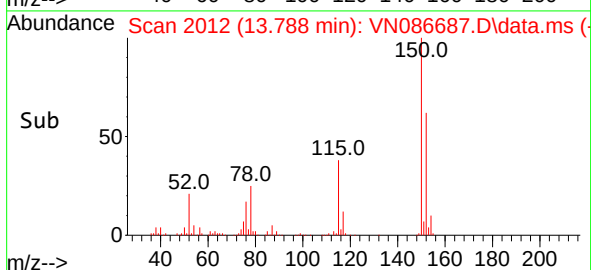
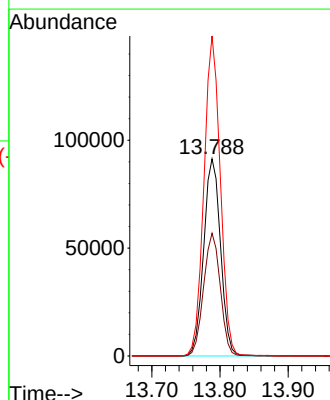
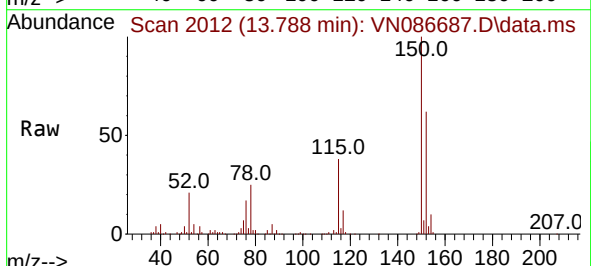
Tgt Ion:152 Resp: 157036

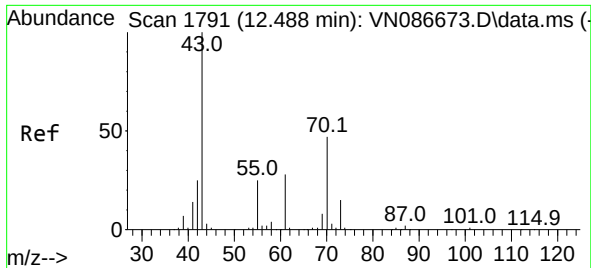
Ion Ratio Lower Upper

152 100

115 61.6 30.0 90.1

150 157.6 0.0 347.8

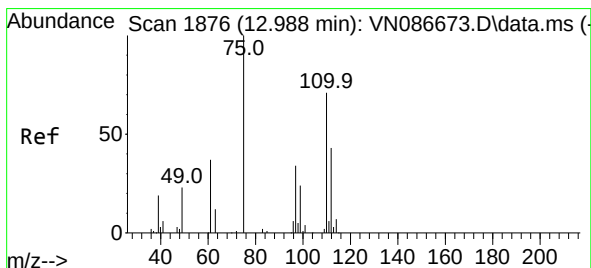
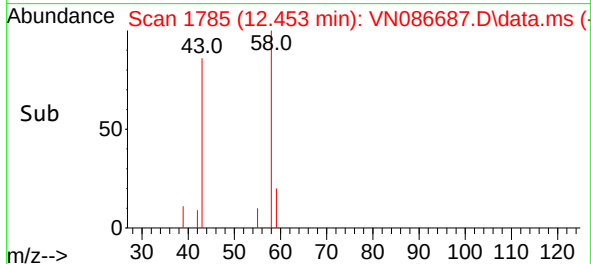
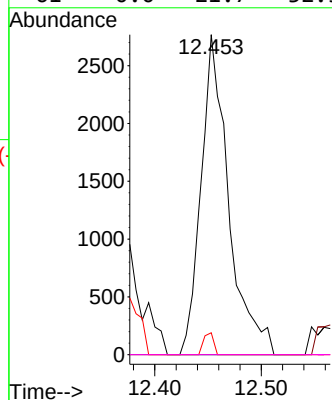
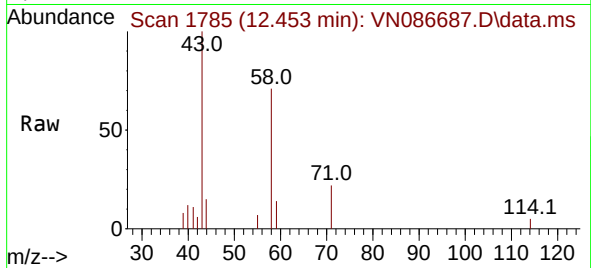




#74
N-amy1 acetate
Concen: 0.984 ug/l
RT: 12.453 min Scan# 11
Delta R.T. -0.035 min
Lab File: VN086687.D
Acq: 19 May 2025 14:15

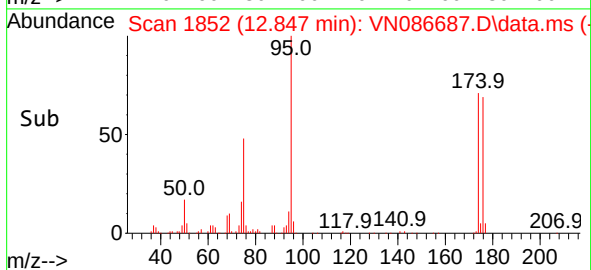
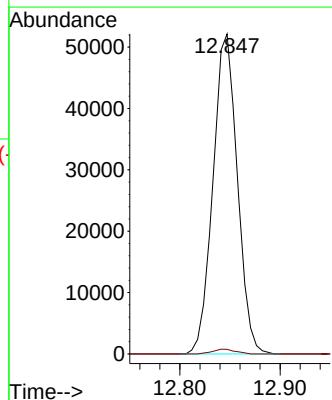
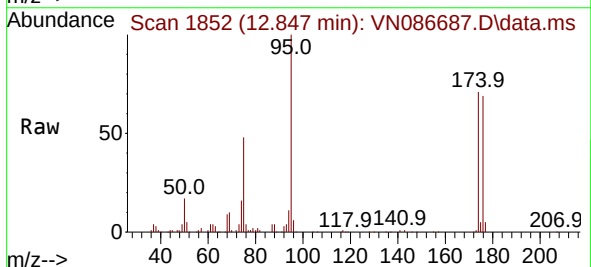
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#04

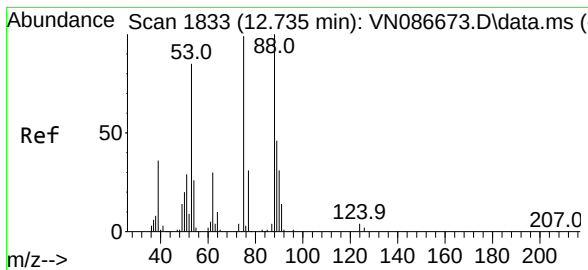
Tgt Ion: 43	Resp: 4984
Ion Ratio	Lower Upper
43 100	
70 0.0	37.9 56.9#
55 2.5	20.5 30.7#
61 0.0	21.7 32.5#



#76
1,2,3-Trichloropropane
Concen: 24.791 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086687.D
Acq: 19 May 2025 14:15

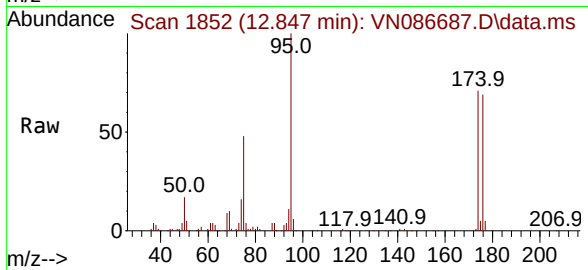
Tgt Ion: 75	Resp: 88046
Ion Ratio	Lower Upper
75 100	
77 1.4	96.0 288.1#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 62.564 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086687.D
 Acq: 19 May 2025 14:15

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168034ZHE#04



Tgt Ion: 75 Resp: 88046
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.4 105.6#
 89 0.1 32.4 48.6#

