

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032125\
 Data File : VN086052.D
 Acq On : 21 Mar 2025 20:06
 Operator : JC\MD
 Sample : PB167234ZHE#12
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167234ZHE#12

Quant Time: Mar 21 23:04:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 03:20:56 2025
 Response via : Initial Calibration

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

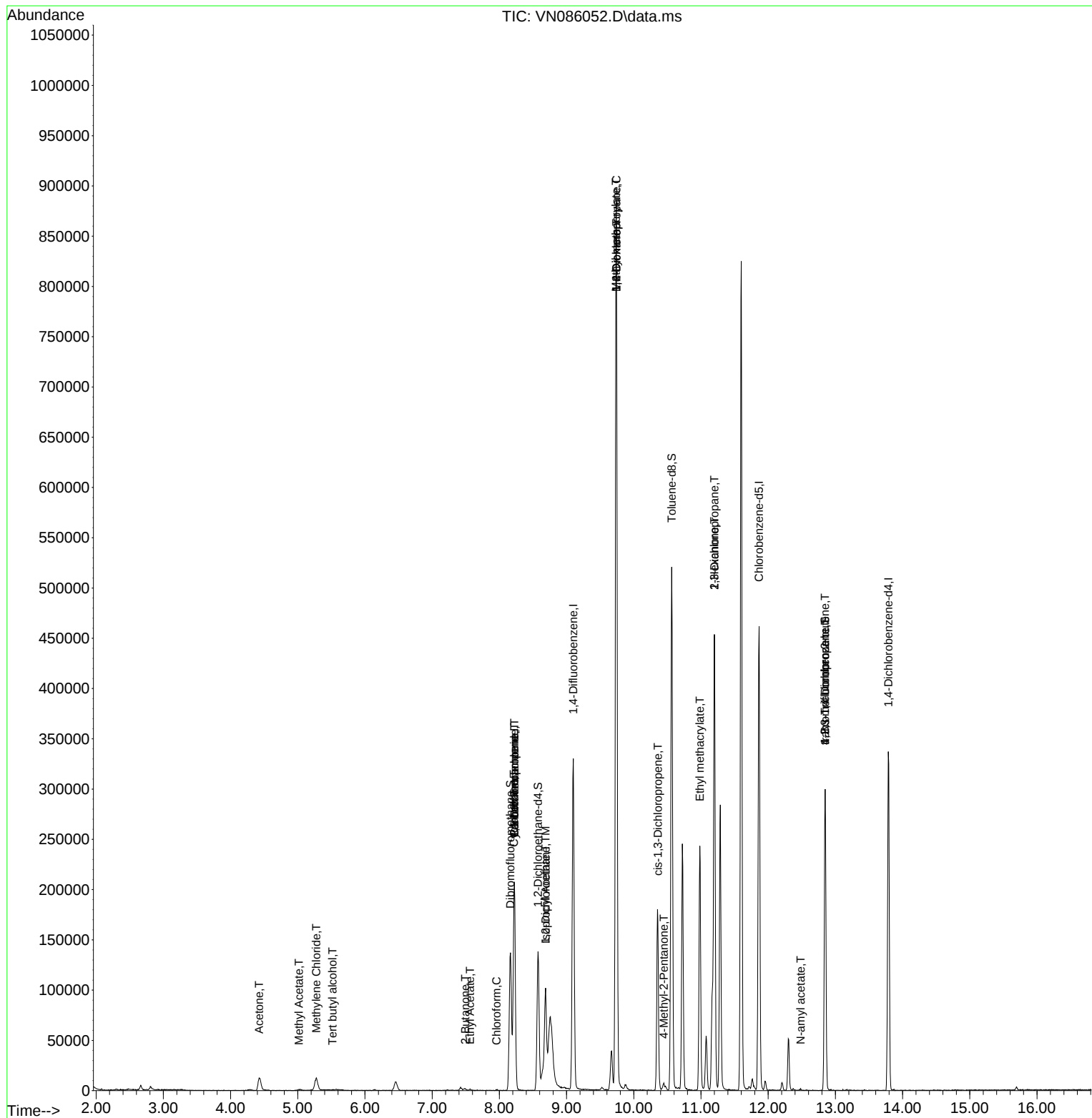
Internal Standards						
1) Pentafluorobenzene	8.224	168	146866	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	285919	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	271974	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	97362	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	115936	57.648	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 115.300%			
35) Dibromofluoromethane	8.165	113	100760	50.489	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.980%			
50) Toluene-d8	10.565	98	364624	50.342	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.680%			
62) 4-Bromofluorobenzene	12.847	95	107070	41.451	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 82.900%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.518	59	60	0.211	ug/l #	73
16) Acetone	4.424	43	25110	40.869	ug/l	92
18) Methyl Acetate	5.018	43	1365	0.898	ug/l #	82
20) Methylene Chloride	5.277	84	10092	5.615	ug/l #	92
25) 2-Butanone	7.494	43	3460	3.903	ug/l #	82
30) Chloroform	7.959	83	925	0.285	ug/l #	62
31) Cyclohexane	8.218	56	3333	1.330	ug/l #	17
36) 1,1-Dichloropropene	8.224	75	12579	4.787	ug/l #	50
37) Ethyl Acetate	7.565	43	1984	0.895	ug/l #	71
38) Carbon Tetrachloride	8.224	117	15748	4.558	ug/l #	17
42) 1,2-Dichloroethane	8.688	62	650	0.226	ug/l #	74
43) Isopropyl Acetate	8.688	43	123813	25.773	ug/l #	78
45) 1,2-Dichloropropane	9.741	63	1116	0.595	ug/l #	44
48) Methyl methacrylate	9.735	41	80460	50.755	ug/l #	33
49) 1,4-Dioxane	9.741	88	71	1.895	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	4292	2.026	ug/l	97
54) cis-1,3-Dichloropropene	10.359	75	33859	10.715	ug/l #	67
56) Ethyl methacrylate	10.982	69	1648	0.863	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	4926	1.501	ug/l #	42
59) 2-Hexanone	11.200	43	46385	30.053	ug/l #	54
74) N-amyl acetate	12.482	43	775	0.348	ug/l #	35
76) 1,2,3-Trichloropropane	12.847	75	53399	24.498	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	53399	64.768	ug/l #	16

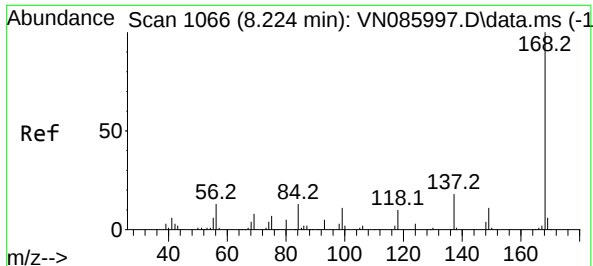
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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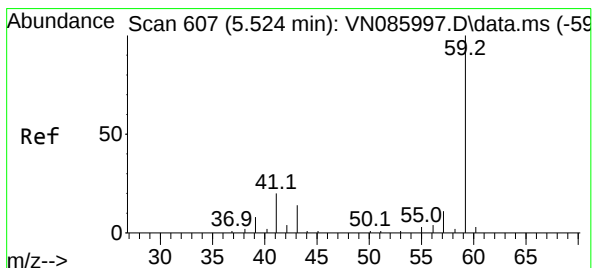
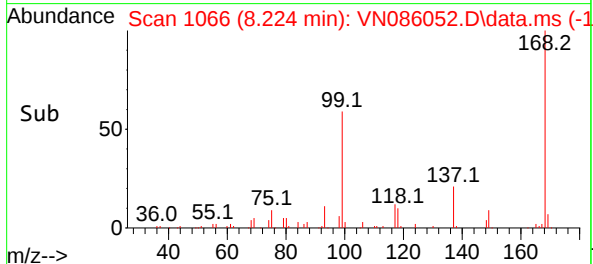
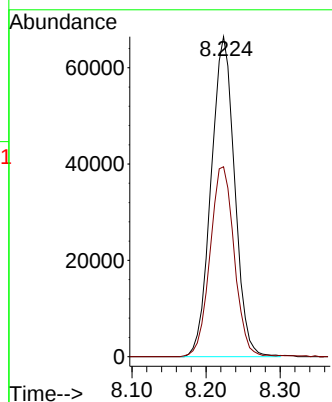
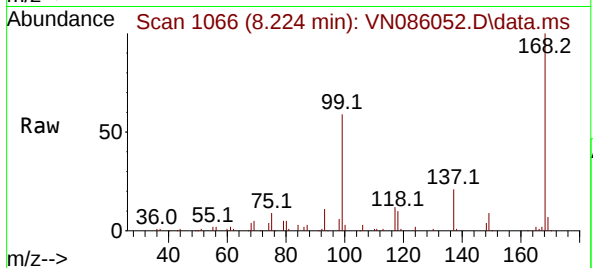




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086052.D
Acq: 21 Mar 2025 20:06

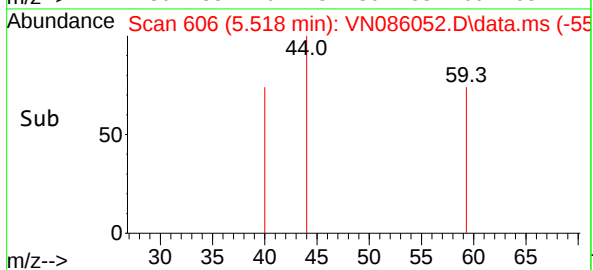
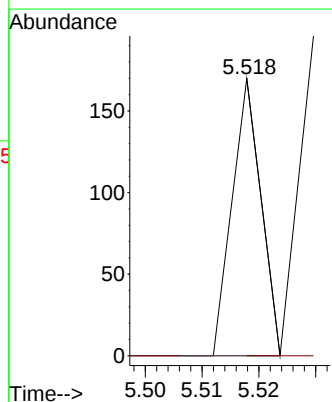
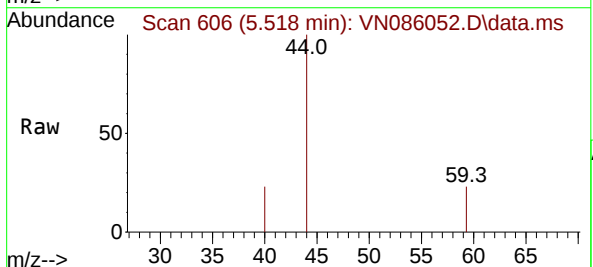
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#12

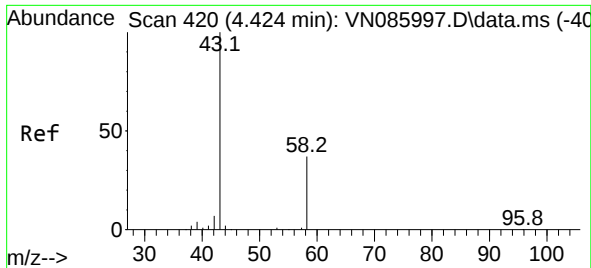
Tgt Ion:168 Resp: 146866
Ion Ratio Lower Upper
168 100
99 59.3 49.4 74.2



#11
Tert butyl alcohol
Concen: 0.211 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.006 min
Lab File: VN086052.D
Acq: 21 Mar 2025 20:06

Tgt Ion: 59 Resp: 60
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#





#16

Acetone

Concen: 40.869 ug/l

RT: 4.424 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN086052.D

Acq: 21 Mar 2025 20:06

Instrument :

MSVOA_N

ClientSampleId :

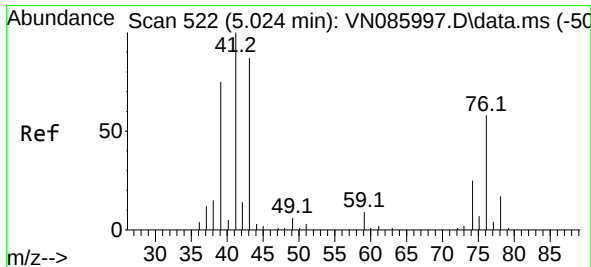
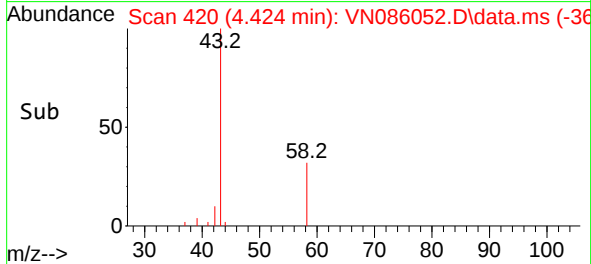
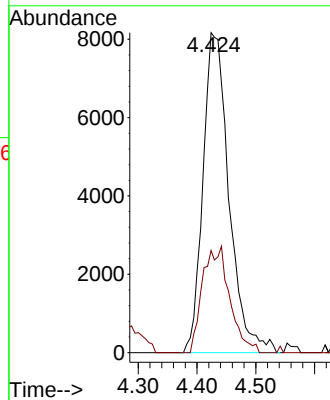
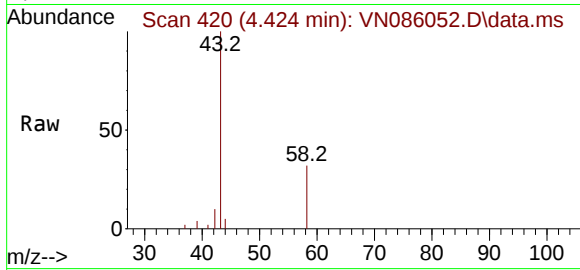
PB167234ZHE#12

Tgt Ion: 43 Resp: 25110

Ion Ratio Lower Upper

43 100

58 31.9 29.4 44.2



#18

Methyl Acetate

Concen: 0.898 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.006 min

Lab File: VN086052.D

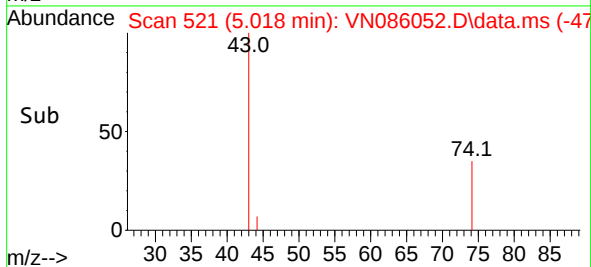
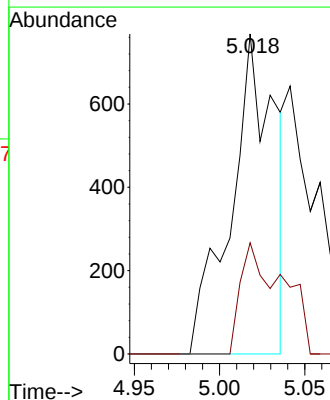
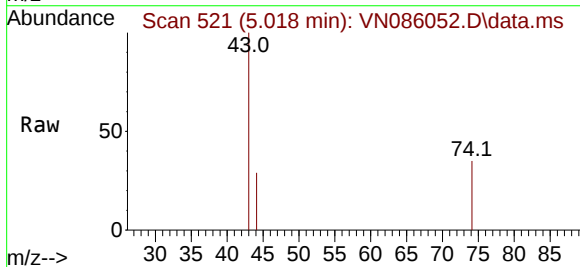
Acq: 21 Mar 2025 20:06

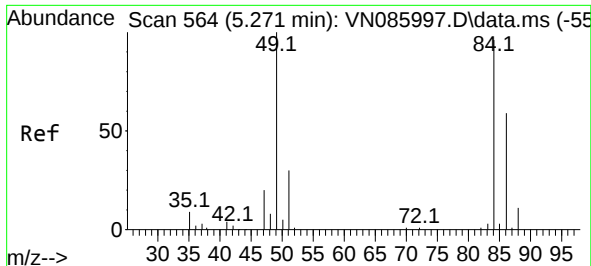
Tgt Ion: 43 Resp: 1365

Ion Ratio Lower Upper

43 100

74 20.3 23.9 35.9#

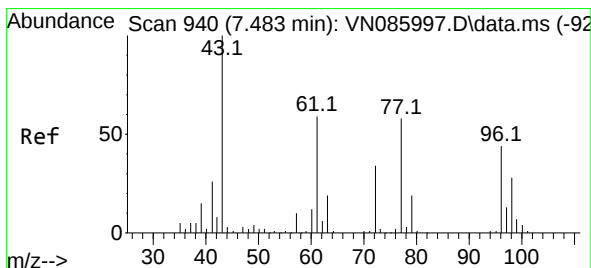
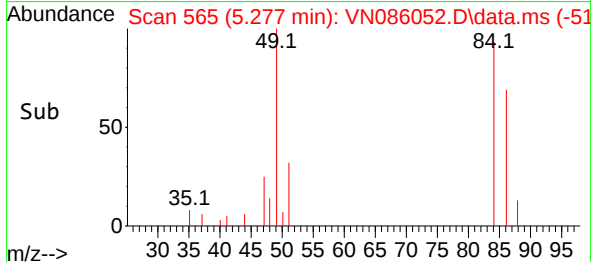
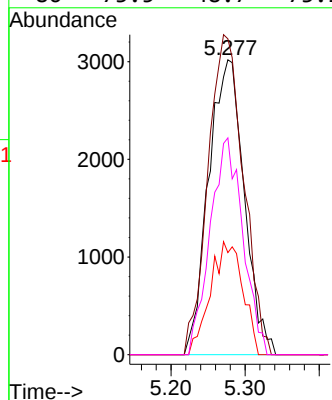
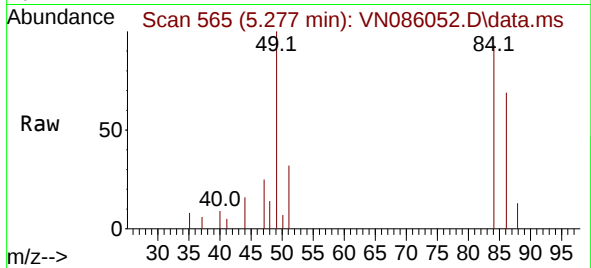




#20
Methylene Chloride
Concen: 5.615 ug/l
RT: 5.277 min Scan# 50
Delta R.T. 0.006 min
Lab File: VN086052.D
Acq: 21 Mar 2025 20:06

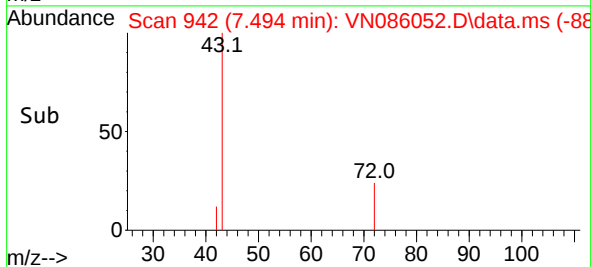
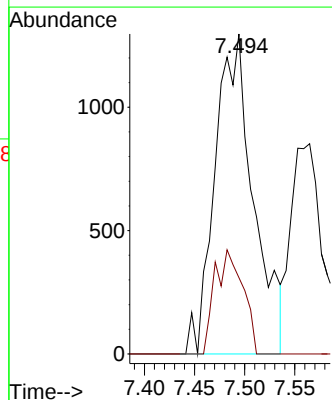
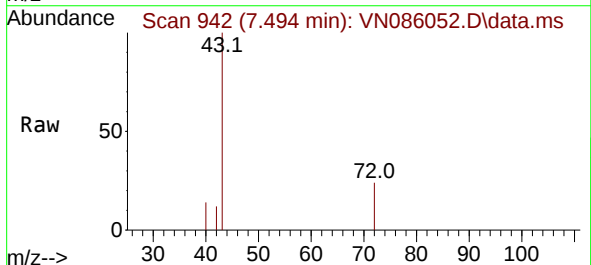
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#12

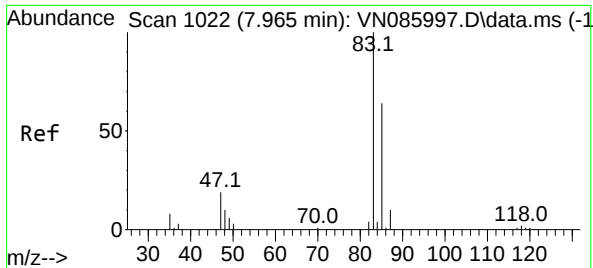
Tgt Ion: 84	Resp: 10092
Ion Ratio	Lower Upper
84 100	
49 107.1	83.3 124.9
51 34.6	24.8 37.2
86 73.5	48.7 73.1#



#25
2-Butanone
Concen: 3.903 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.011 min
Lab File: VN086052.D
Acq: 21 Mar 2025 20:06

Tgt Ion: 43	Resp: 3460		
Ion Ratio	Lower	Upper	
43 100			
72 23.8	27.4	41.0#	





#30

Chloroform

Concen: 0.285 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. -0.006 min

Lab File: VN086052.D

Acq: 21 Mar 2025 20:06

Instrument :

MSVOA_N

ClientSampleId :

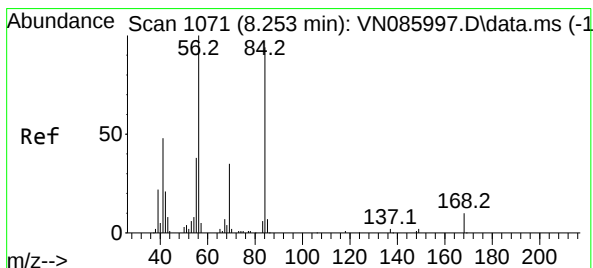
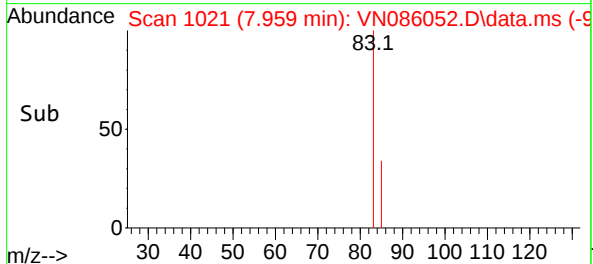
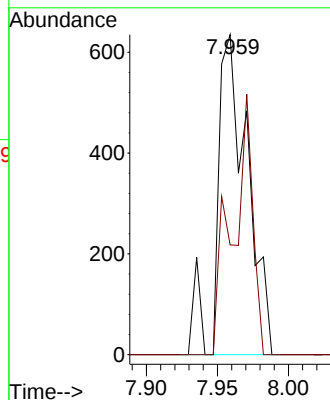
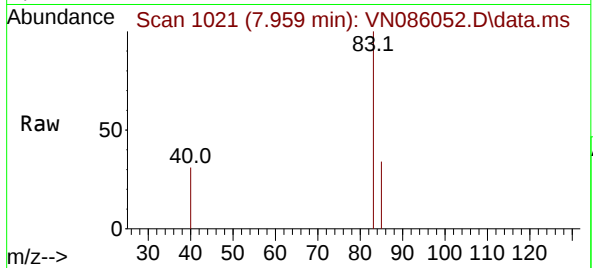
PB167234ZHE#12

Tgt Ion: 83 Resp: 925

Ion Ratio Lower Upper

83 100

85 34.3 51.5 77.3#



#31

Cyclohexane

Concen: 1.330 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.036 min

Lab File: VN086052.D

Acq: 21 Mar 2025 20:06

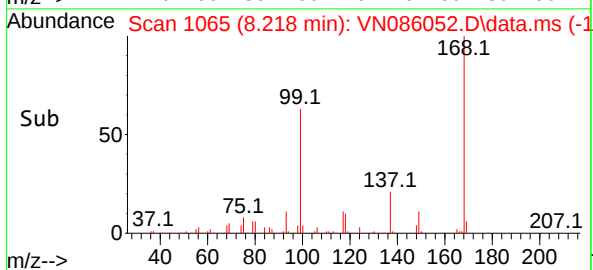
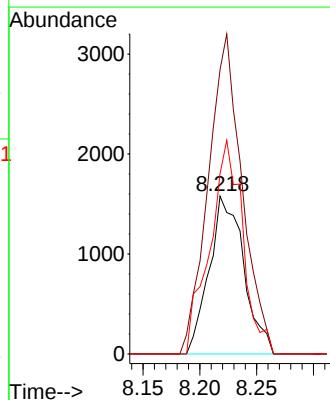
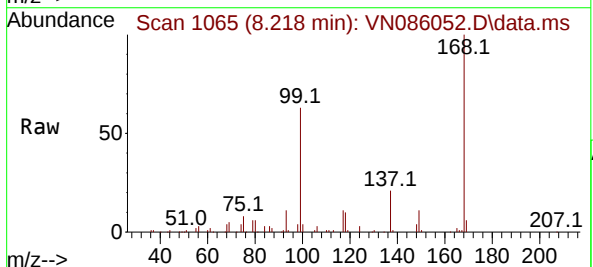
Tgt Ion: 56 Resp: 3333

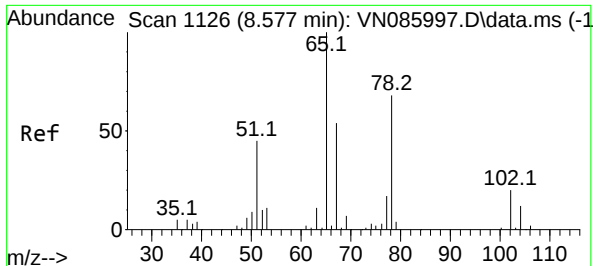
Ion Ratio Lower Upper

56 100

69 180.2 28.0 42.0#

84 114.3 75.0 112.6#





#33

1,2-Dichloroethane-d4

Concen: 57.648 ug/l

RT: 8.576 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086052.D

Acq: 21 Mar 2025 20:06

Instrument :

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ClientSampleId :

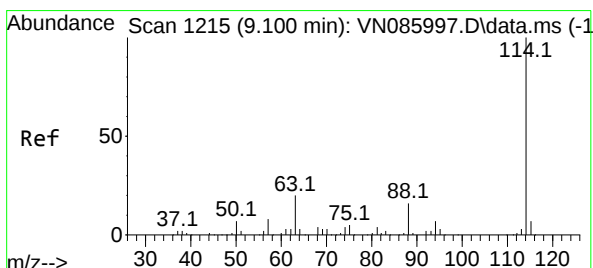
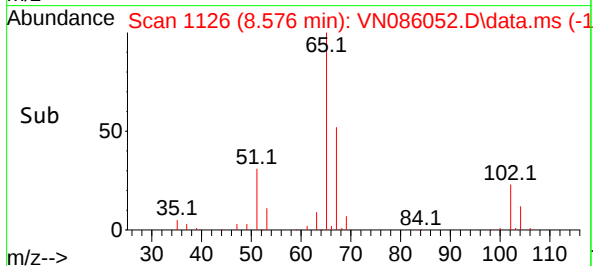
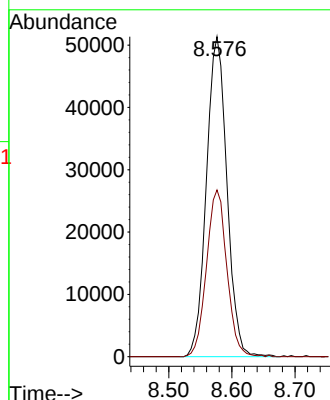
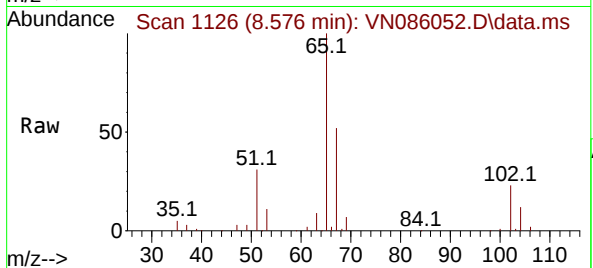
PB167234ZHE#12

Tgt Ion: 65 Resp: 115936

Ion Ratio Lower Upper

65 100

67 51.8 0.0 102.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086052.D

Acq: 21 Mar 2025 20:06

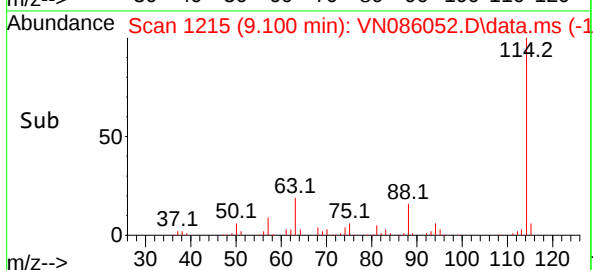
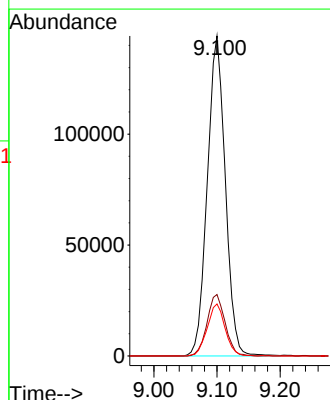
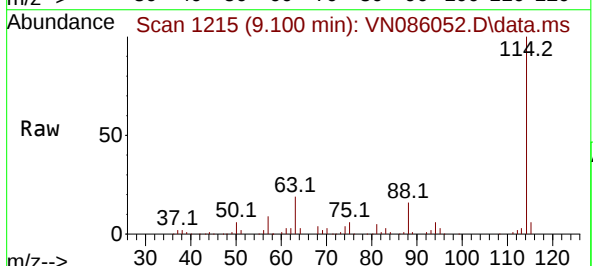
Tgt Ion: 114 Resp: 285919

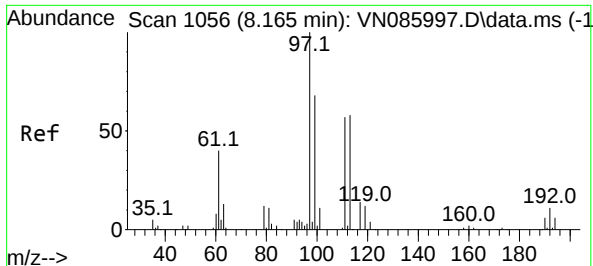
Ion Ratio Lower Upper

114 100

63 19.2 0.0 39.6

88 16.3 0.0 32.6





#35

Dibromofluoromethane

Concen: 50.489 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086052.D

Acq: 21 Mar 2025 20:06

Instrument :

MSVOA_N

ClientSampleId :

PB167234ZHE#12

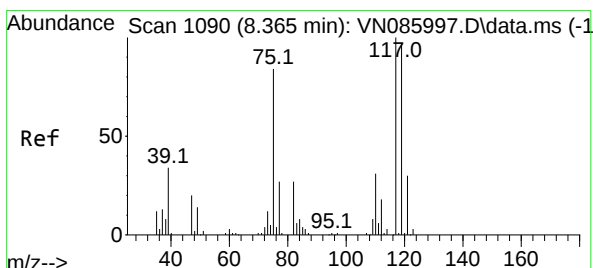
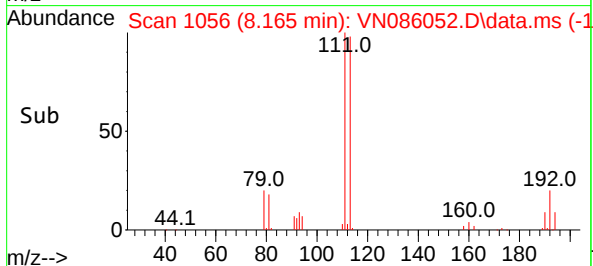
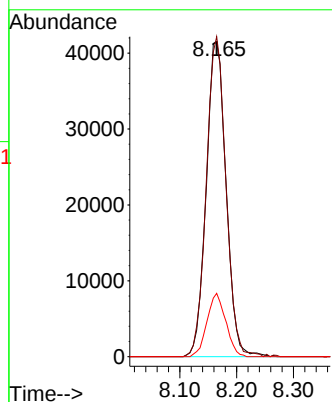
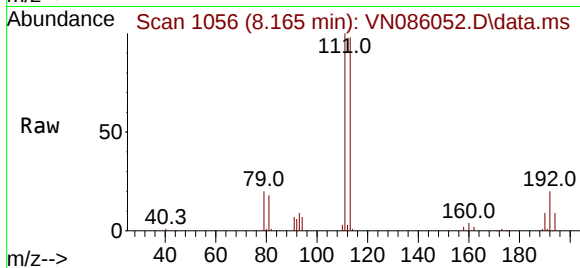
Tgt Ion:113 Resp: 100760

Ion Ratio Lower Upper

113 100

111 100.1 81.8 122.8

192 19.0 15.9 23.9



#36

1,1-Dichloropropene

Concen: 4.787 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086052.D

Acq: 21 Mar 2025 20:06

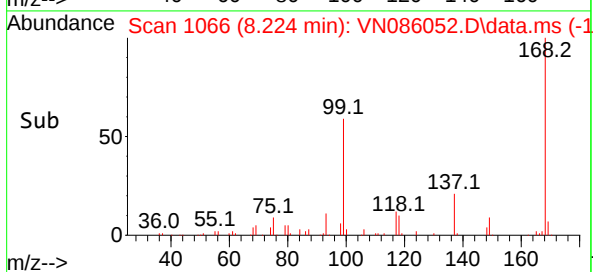
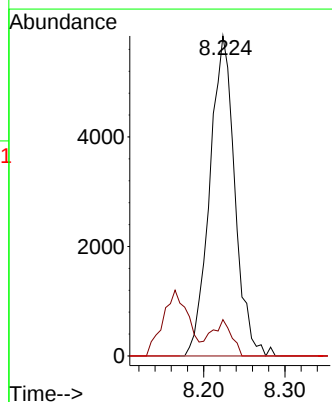
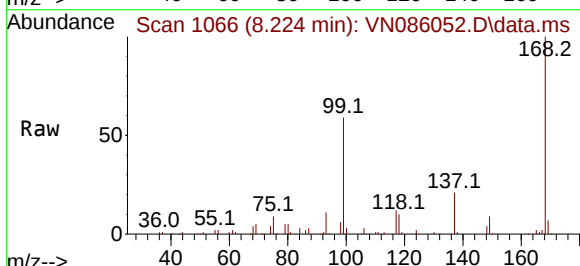
Tgt Ion: 75 Resp: 12579

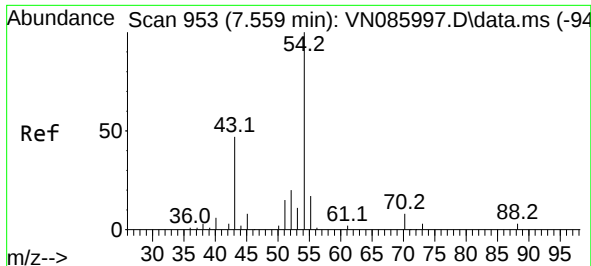
Ion Ratio Lower Upper

75 100

110 9.4 17.8 53.3#

77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 0.895 ug/l

RT: 7.565 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN086052.D

Acq: 21 Mar 2025 20:06

Instrument :

MSVOA_N

ClientSampleId :

PB167234ZHE#12

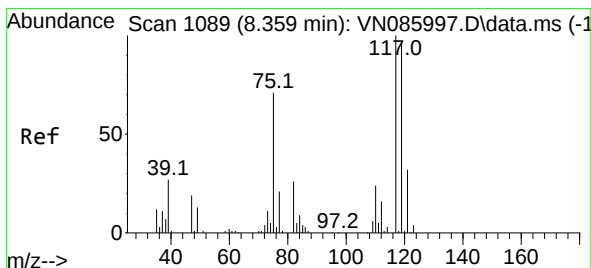
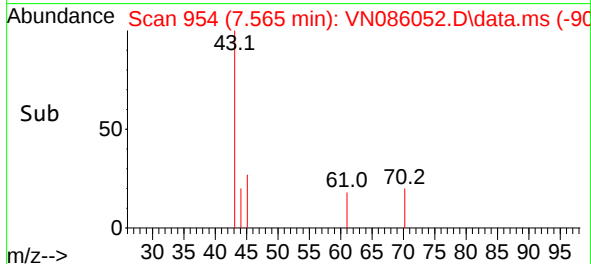
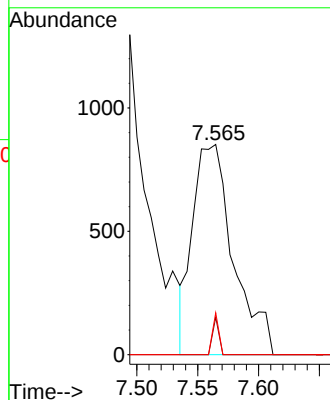
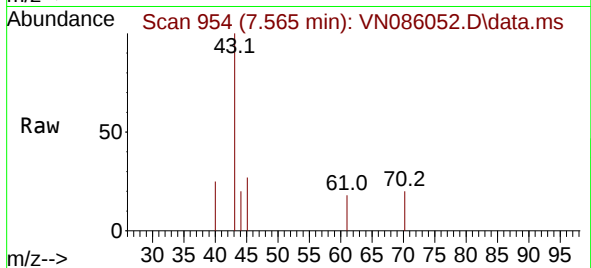
Tgt Ion: 43 Resp: 1984

Ion Ratio Lower Upper

43 100

61 2.7 13.0 19.4#

70 3.0 11.0 16.6#



#38

Carbon Tetrachloride

Concen: 4.558 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.136 min

Lab File: VN086052.D

Acq: 21 Mar 2025 20:06

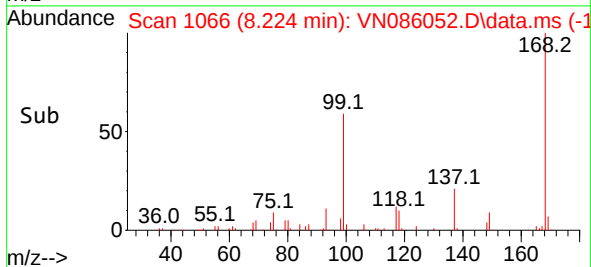
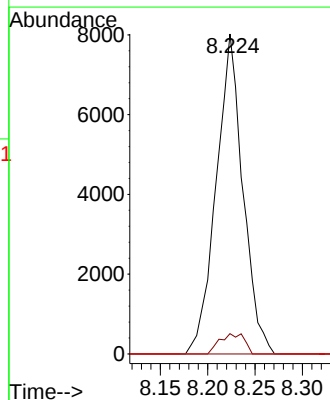
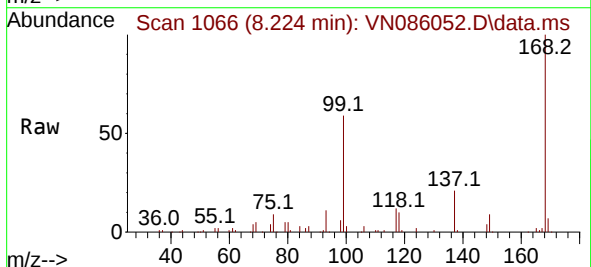
Tgt Ion: 117 Resp: 15748

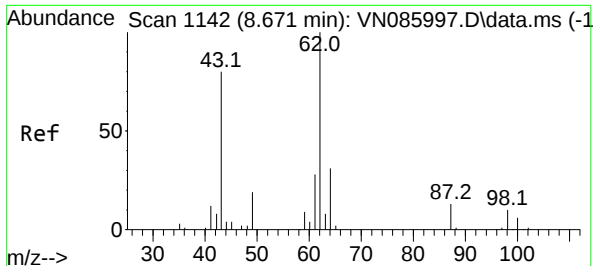
Ion Ratio Lower Upper

117 100

119 6.4 77.0 115.4#

121 0.0 25.6 38.4#





#42

1,2-Dichloroethane

Concen: 0.226 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.017 min

Lab File: VN086052.D

Acq: 21 Mar 2025 20:06

Instrument :

MSVOA_N

ClientSampleId :

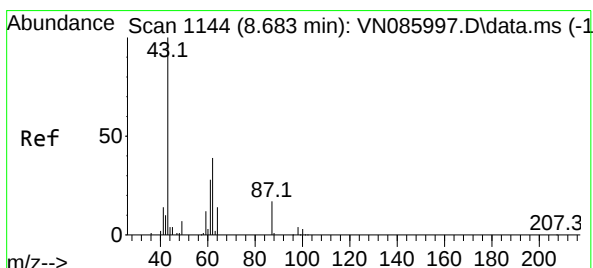
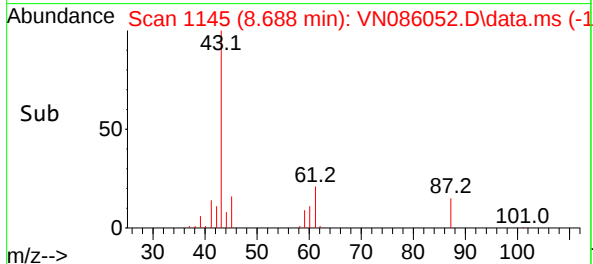
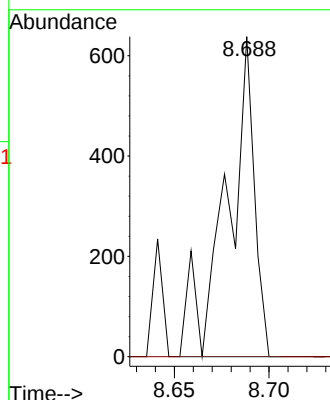
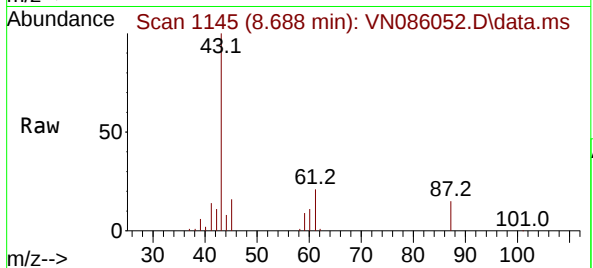
PB167234ZHE#12

Tgt Ion: 62 Resp: 650

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.6



#43

Isopropyl Acetate

Concen: 25.773 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.006 min

Lab File: VN086052.D

Acq: 21 Mar 2025 20:06

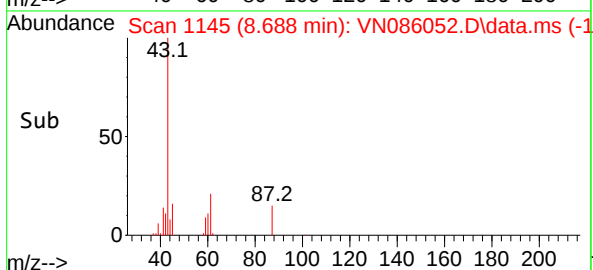
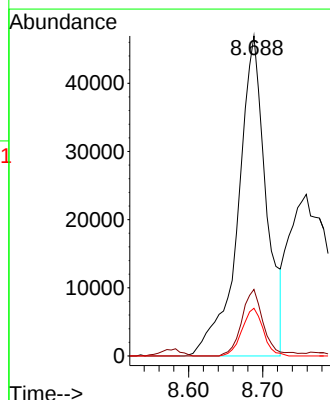
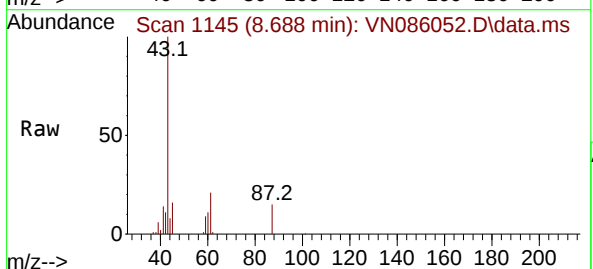
Tgt Ion: 43 Resp: 123813

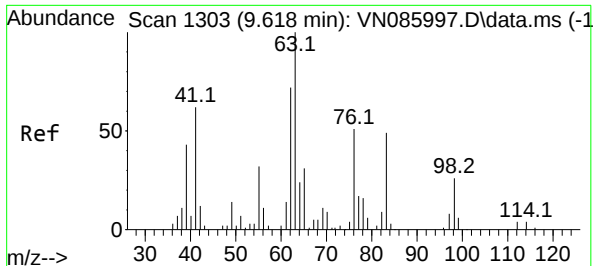
Ion Ratio Lower Upper

43 100

61 16.1 25.0 37.6#

87 11.2 13.0 19.4#





#45

1,2-Dichloropropane

Concen: 0.595 ug/l

RT: 9.741 min Scan# 1116

Delta R.T. 0.123 min

Lab File: VN086052.D

Acq: 21 Mar 2025 20:06

Instrument :

MSVOA_N

ClientSampleId :

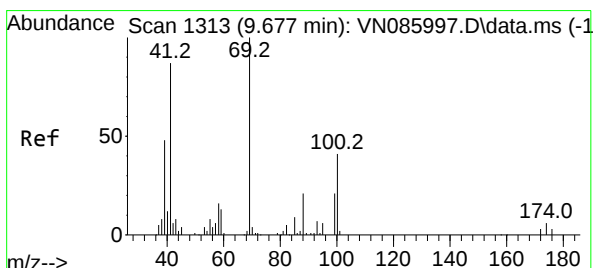
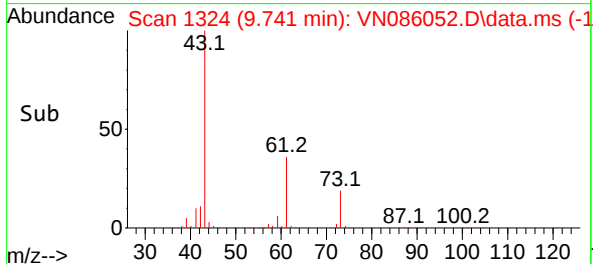
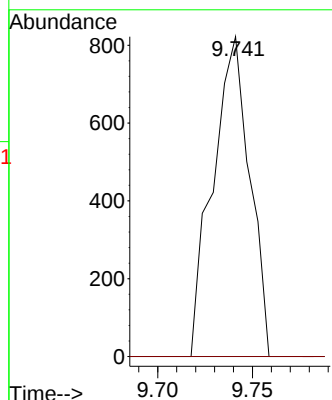
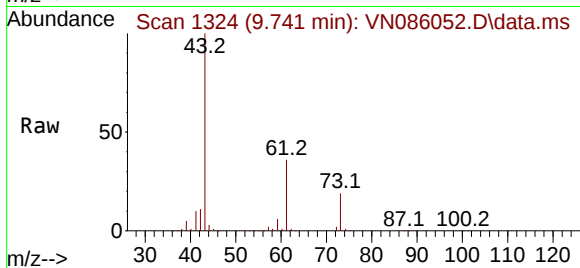
PB167234ZHE#12

Tgt Ion: 63 Resp: 1116

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



#48

Methyl methacrylate

Concen: 50.755 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.059 min

Lab File: VN086052.D

Acq: 21 Mar 2025 20:06

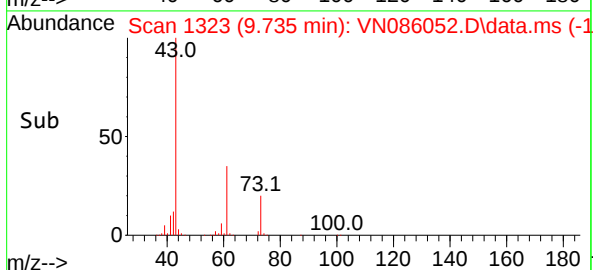
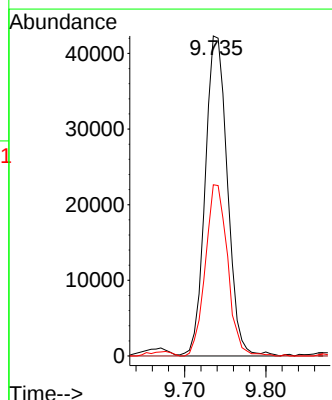
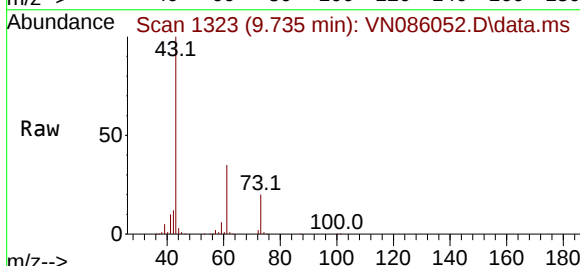
Tgt Ion: 41 Resp: 80460

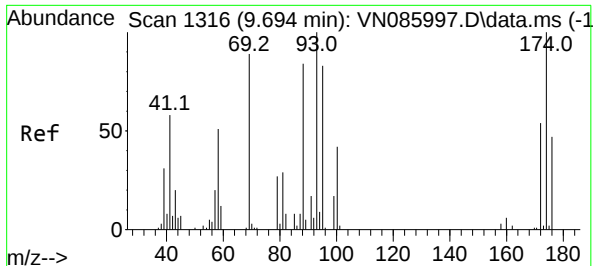
Ion Ratio Lower Upper

41 100

69 0.0 83.1 124.7#

39 53.5 45.6 68.4





#49

1,4-Dioxane

Concen: 1.895 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.047 min

Lab File: VN086052.D

Acq: 21 Mar 2025 20:06

Instrument :

MSVOA_N

ClientSampleId :

PB167234ZHE#12

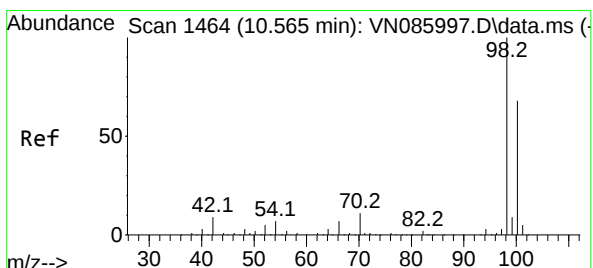
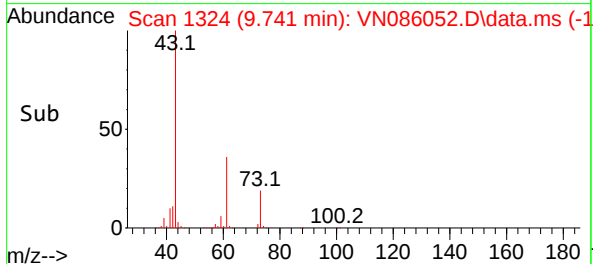
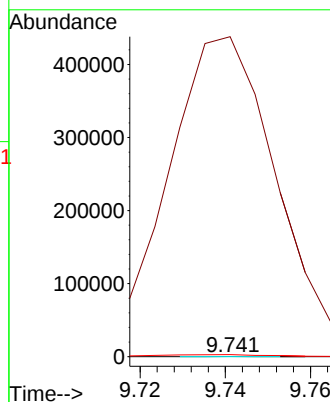
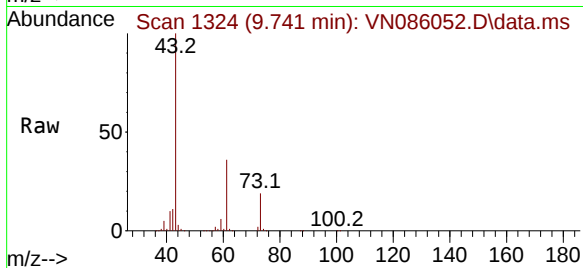
Tgt Ion: 88 Resp: 71

Ion Ratio Lower Upper

88 100

43 1121469.0 21.7 32.5#

58 7773.2 50.4 75.6#



#50

Toluene-d8

Concen: 50.342 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086052.D

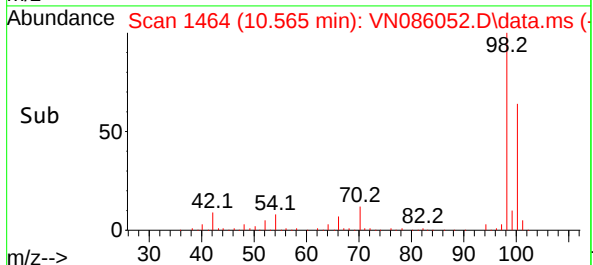
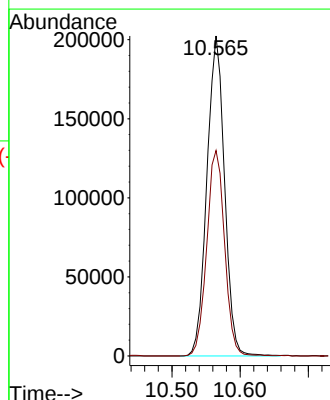
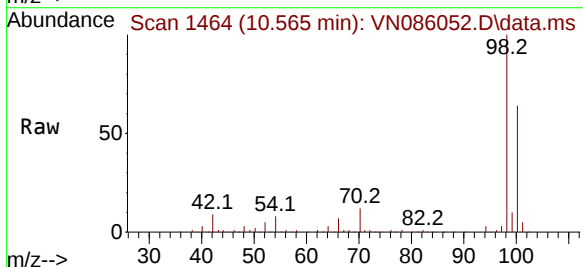
Acq: 21 Mar 2025 20:06

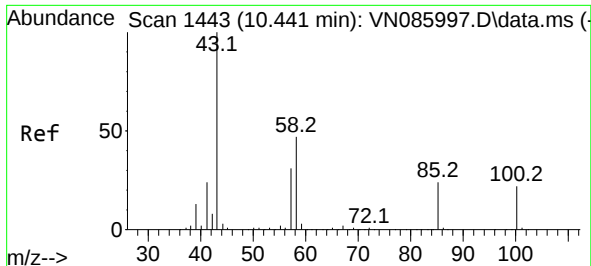
Tgt Ion: 98 Resp: 364624

Ion Ratio Lower Upper

98 100

100 64.9 53.1 79.7

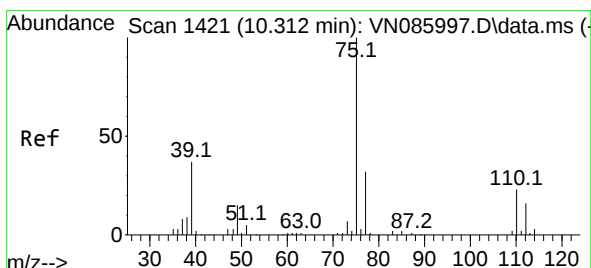
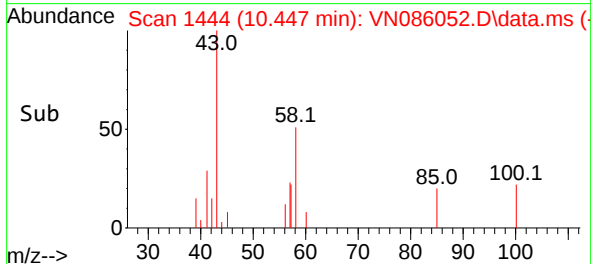
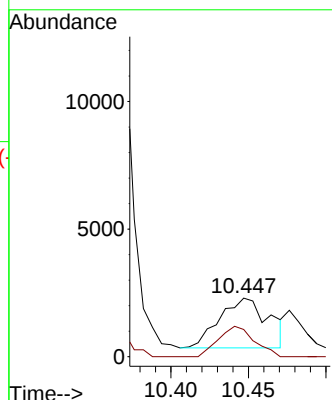
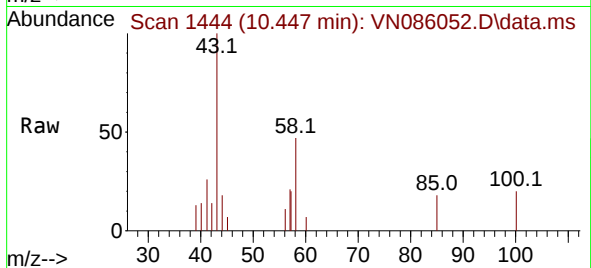




#51
4-Methyl-2-Pentanone
Concen: 2.026 ug/l
RT: 10.447 min Scan# 1443
Delta R.T. 0.006 min
Lab File: VN086052.D
Acq: 21 Mar 2025 20:06

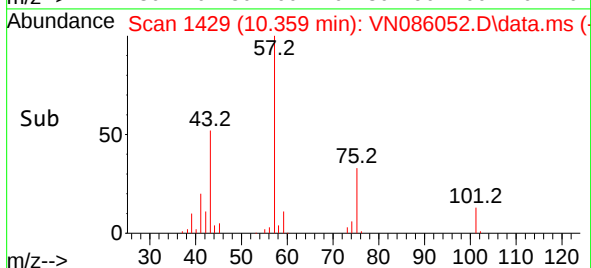
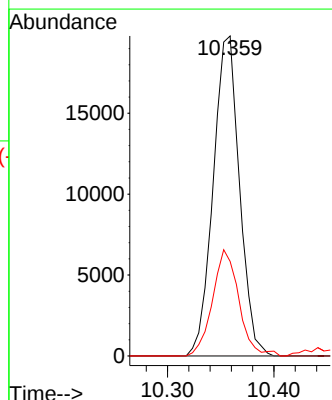
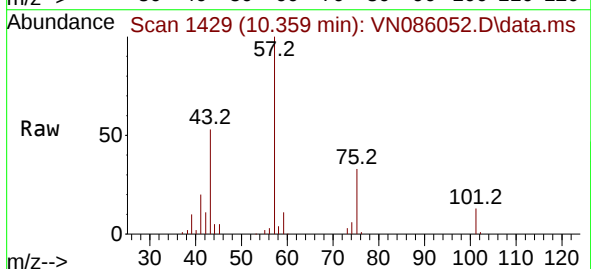
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#12

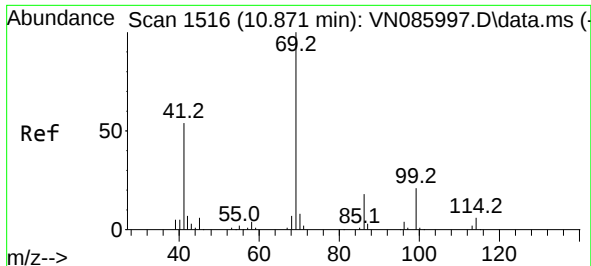
Tgt Ion: 43 Resp: 4292
Ion Ratio Lower Upper
43 100
58 44.5 37.4 56.0



#54
cis-1,3-Dichloropropene
Concen: 10.715 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN086052.D
Acq: 21 Mar 2025 20:06

Tgt Ion: 75 Resp: 33859
Ion Ratio Lower Upper
75 100
77 0.0 25.3 37.9#
39 29.6 29.6 44.4#

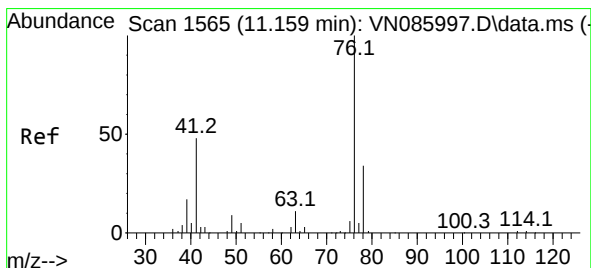
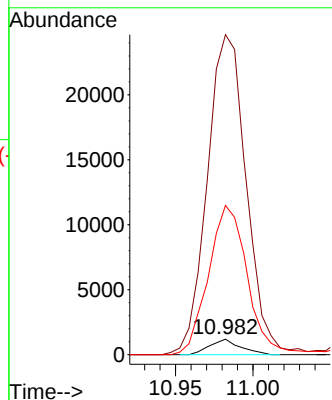
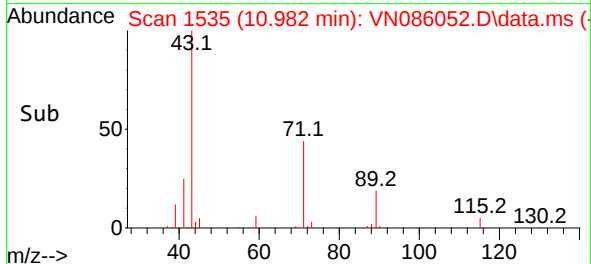
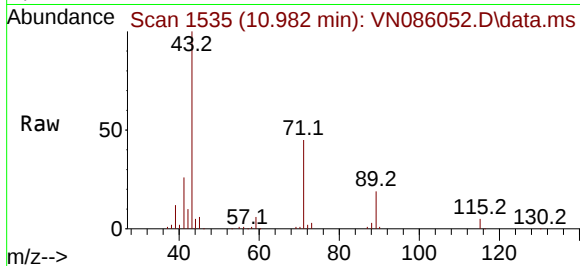




#56
Ethyl methacrylate
Concen: 0.863 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.111 min
Lab File: VN086052.D
Acq: 21 Mar 2025 20:06

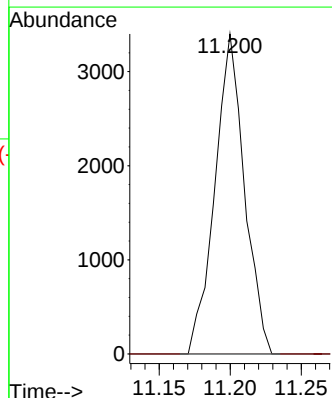
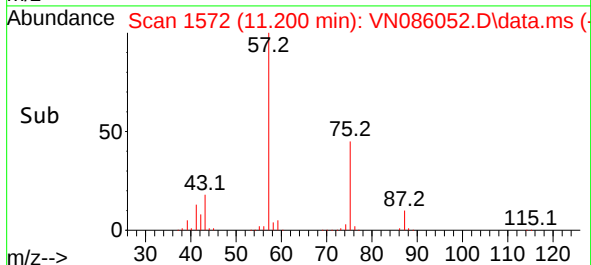
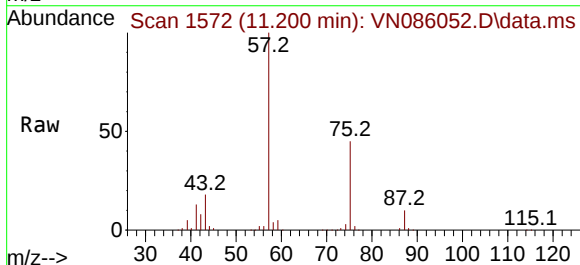
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#12

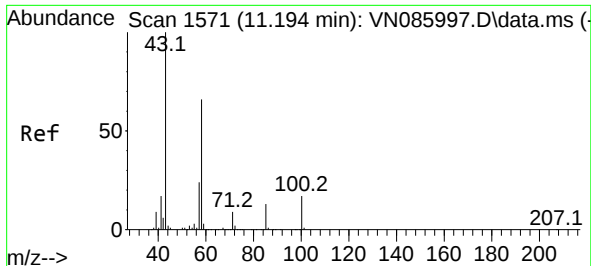
Tgt Ion: 69 Resp: 1648
Ion Ratio Lower Upper
69 100
41 2620.3 41.6 62.4#
39 1215.2 21.8 32.8#



#57
1,3-Dichloropropane
Concen: 1.501 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN086052.D
Acq: 21 Mar 2025 20:06

Tgt Ion: 76 Resp: 4926
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#

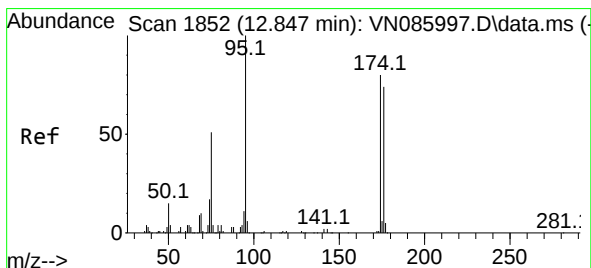
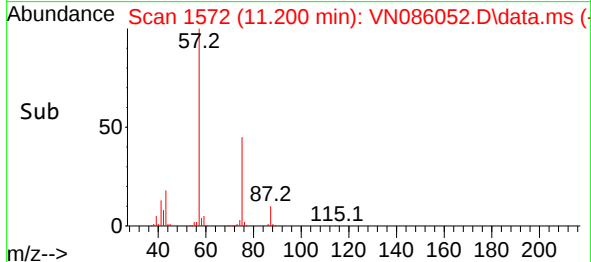
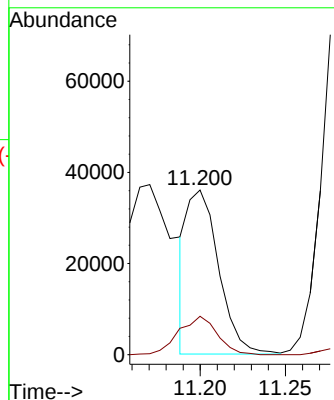
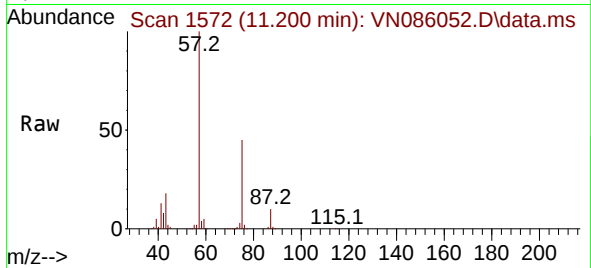




#59
2-Hexanone
Concen: 30.053 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086052.D
Acq: 21 Mar 2025 20:06

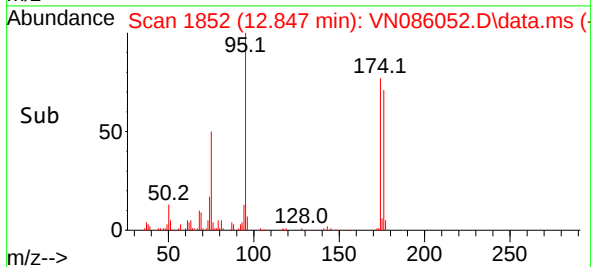
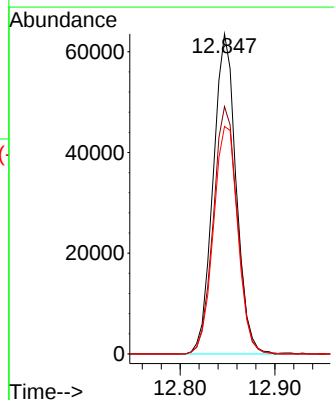
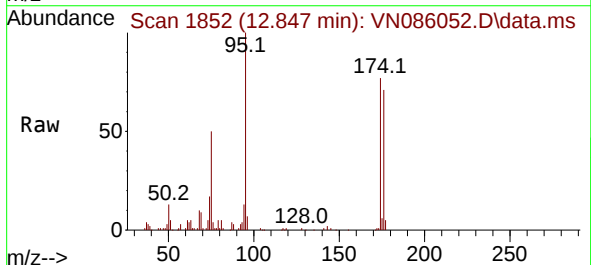
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#12

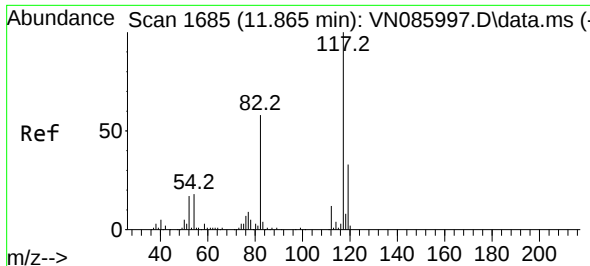
Tgt Ion: 43 Resp: 46385
Ion Ratio Lower Upper
43 100
58 28.5 32.4 97.2#



#62
4-Bromofluorobenzene
Concen: 41.451 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086052.D
Acq: 21 Mar 2025 20:06

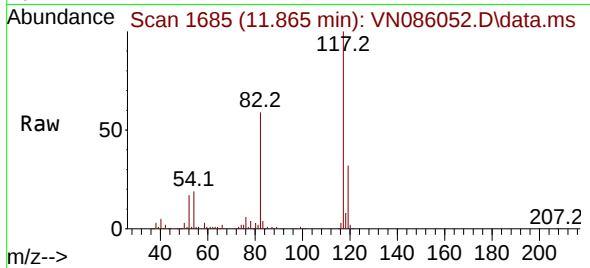
Tgt Ion: 95 Resp: 107070
Ion Ratio Lower Upper
95 100
174 80.8 0.0 156.8
176 75.7 0.0 152.2



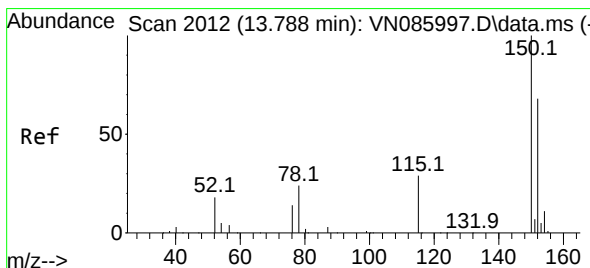
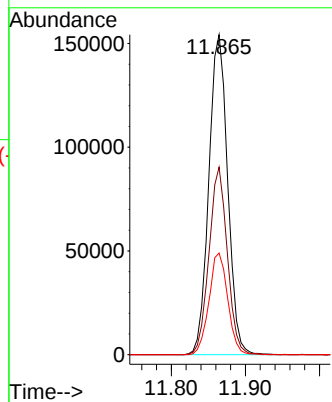
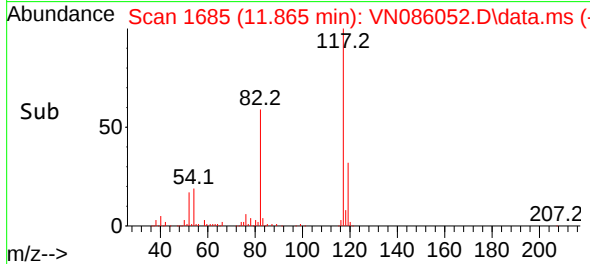


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086052.D
Acq: 21 Mar 2025 20:06

Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#12

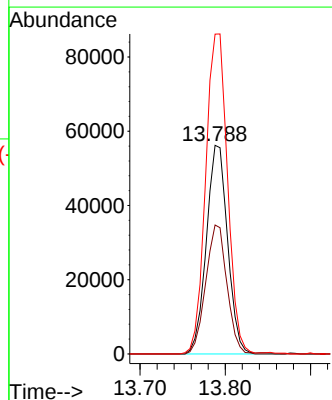
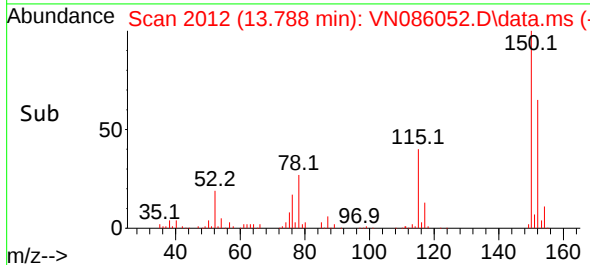
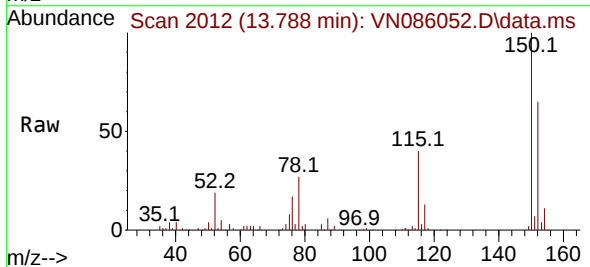


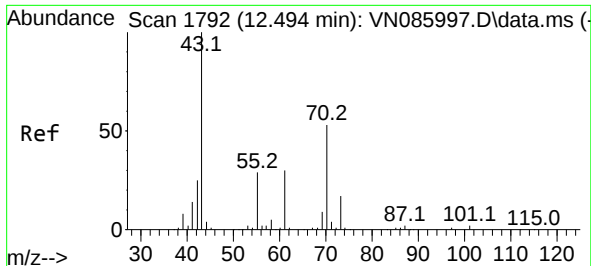
Tgt Ion:117 Resp: 271974
Ion Ratio Lower Upper
117 100
82 58.6 46.7 70.1
119 31.7 26.5 39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086052.D
Acq: 21 Mar 2025 20:06

Tgt Ion:152 Resp: 97362
Ion Ratio Lower Upper
152 100
115 61.6 31.1 93.2
150 157.4 0.0 359.6

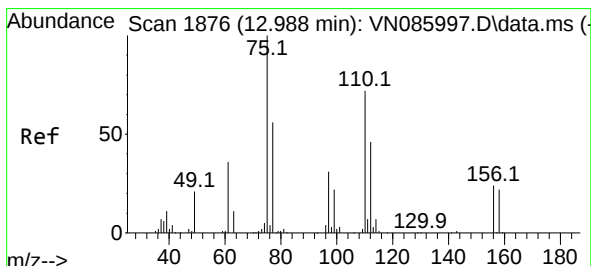
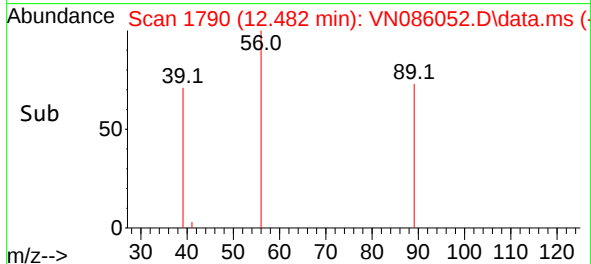
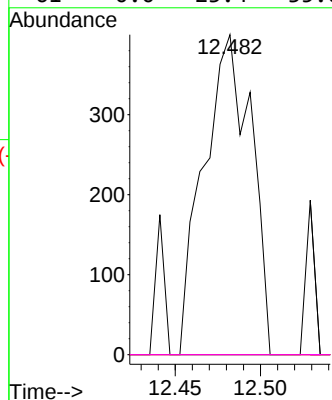
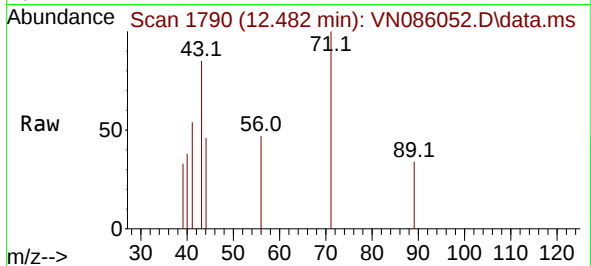




#74
N-amy1 acetate
Concen: 0.348 ug/l
RT: 12.482 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN086052.D
Acq: 21 Mar 2025 20:06

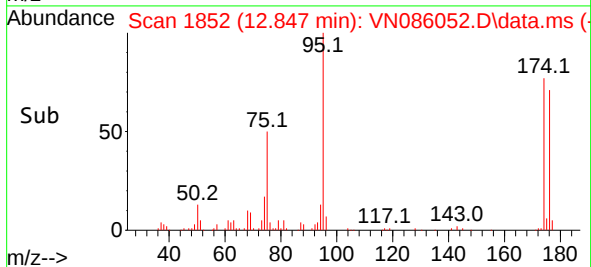
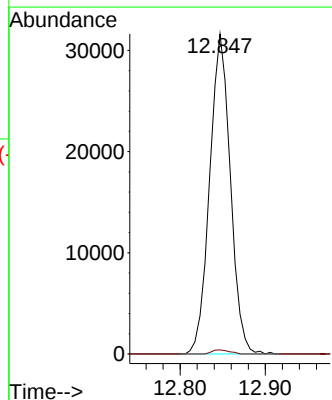
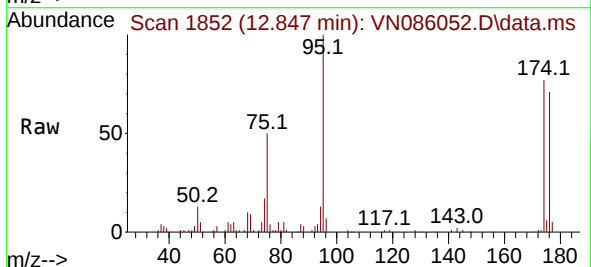
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#12

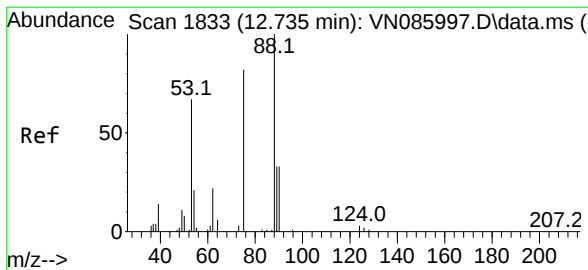
Tgt Ion: 43	Resp: 775
Ion Ratio	Lower Upper
43 100	
70 0.0	43.0 64.4#
55 0.0	23.8 35.8#
61 0.0	23.4 35.0#



#76
1,2,3-Trichloropropane
Concen: 24.498 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086052.D
Acq: 21 Mar 2025 20:06

Tgt Ion: 75	Resp: 53399
Ion Ratio	Lower Upper
75 100	
77 1.1	83.7 251.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 64.768 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.111 min
 Lab File: VN086052.D
 Acq: 21 Mar 2025 20:06

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167234ZHE#12

Tgt Ion: 75 Resp: 53399
 Ion Ratio Lower Upper
 75 100
 53 0.0 66.0 99.0#
 89 0.0 36.9 55.3#

