

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
 Data File : VN086842.D
 Acq On : 03 Jun 2025 14:57
 Operator : JC\MD
 Sample : PB168225ZHE#03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168225ZHE#03

Quant Time: Jun 04 01:59:58 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)

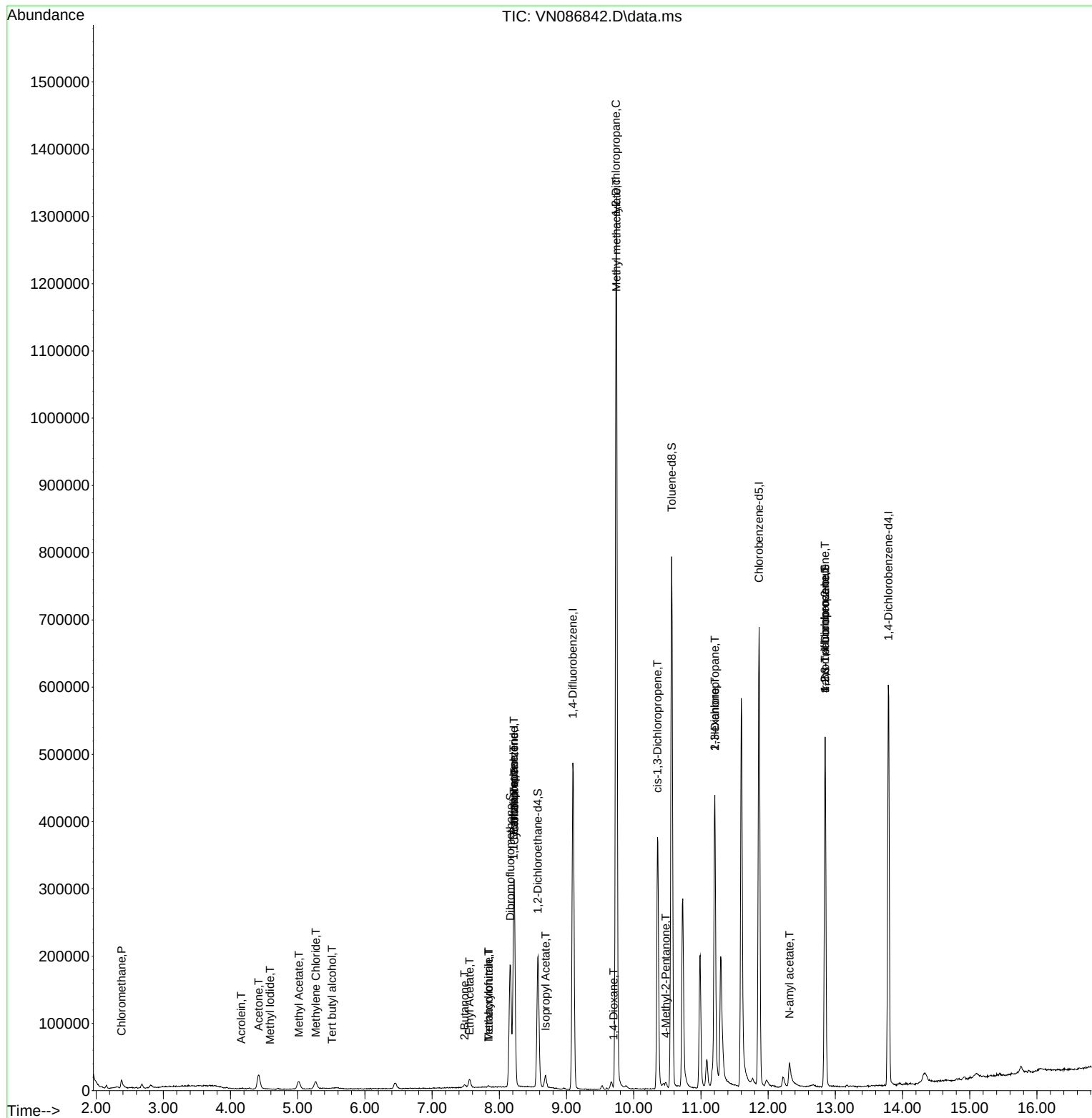
Internal Standards						
1) Pentafluorobenzene	8.218	168	235882	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	452805	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	411779	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	173583	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	159501	48.935	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 97.860%			
35) Dibromofluoromethane	8.165	113	140358	52.049	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.100%			
50) Toluene-d8	10.565	98	569101	50.926	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.860%			
62) 4-Bromofluorobenzene	12.847	95	202673	51.364	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.720%			
Target Compounds						Qvalue
3) Chloromethane	2.377	50	20205	5.244	ug/l	89
10) Methyl Iodide	4.589	142	689	0.224	ug/l #	43
11) Tert butyl alcohol	5.512	59	389	0.655	ug/l #	73
13) Acrolein	4.159	56	848	1.336	ug/l #	67
16) Acetone	4.418	43	41581	34.104	ug/l	98
18) Methyl Acetate	5.018	43	25026	7.334	ug/l	97
20) Methylene Chloride	5.271	84	8632	2.683	ug/l	92
25) 2-Butanone	7.483	43	7510	3.986	ug/l #	87
29) Tetrahydrofuran	7.841	42	1297	1.055	ug/l #	69
31) Cyclohexane	8.224	56	4391	0.898	ug/l #	1
36) 1,1-Dichloropropene	8.212	75	19043	4.787	ug/l #	47
37) Ethyl Acetate	7.559	43	18333	4.563	ug/l	98
38) Carbon Tetrachloride	8.218	117	22726	5.799	ug/l #	15
41) Methacrylonitrile	7.841	41	645	0.297	ug/l #	25
43) Isopropyl Acetate	8.688	43	20739	2.575	ug/l	94
45) 1,2-Dichloropropane	9.735	63	1816	0.589	ug/l #	42
48) Methyl methacrylate	9.741	41	109642	35.127	ug/l #	35
49) 1,4-Dioxane	9.700	88	575	8.700	ug/l #	81
51) 4-Methyl-2-Pentanone	10.477	43	6427	1.582	ug/l #	33
54) cis-1,3-Dichloropropene	10.353	75	81623	16.479	ug/l #	56
57) 1,3-Dichloropropane	11.206	76	5512	1.064	ug/l #	42
59) 2-Hexanone	11.206	43	85897	28.957	ug/l #	43
74) N-amyl acetate	12.318	43	17865	3.189	ug/l #	50
76) 1,2,3-Trichloropropane	12.847	75	96862	24.674	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	96862	62.268	ug/l #	15

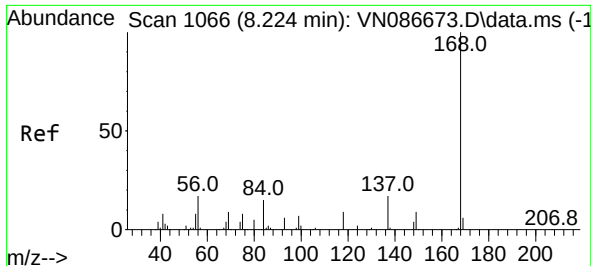
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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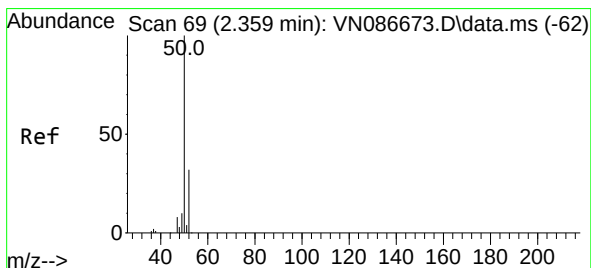
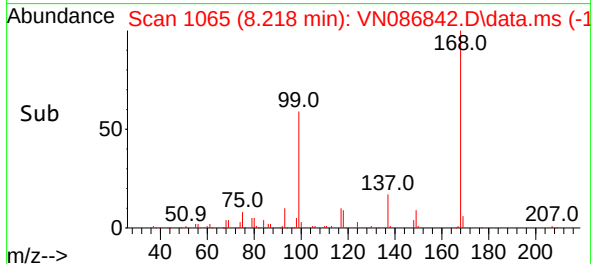
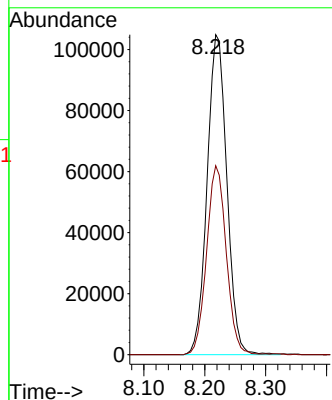
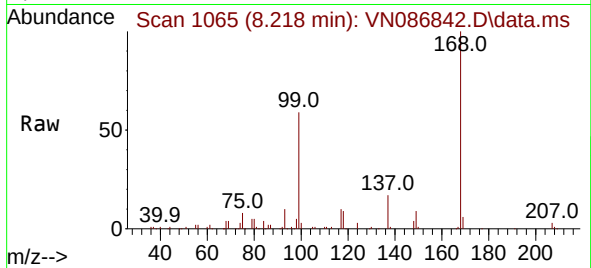




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086842.D
Acq: 03 Jun 2025 14:57

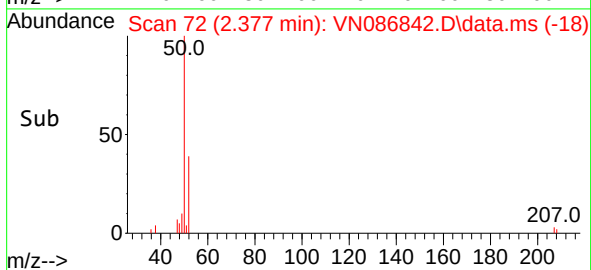
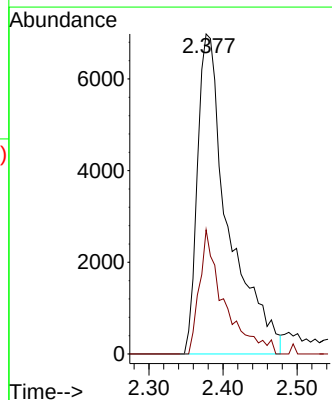
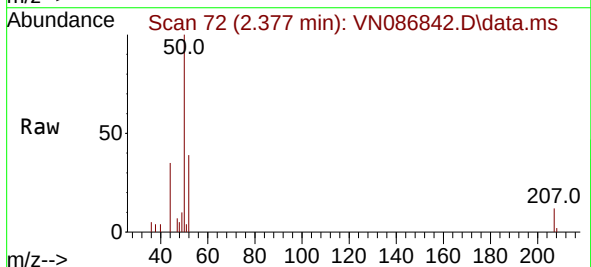
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#03

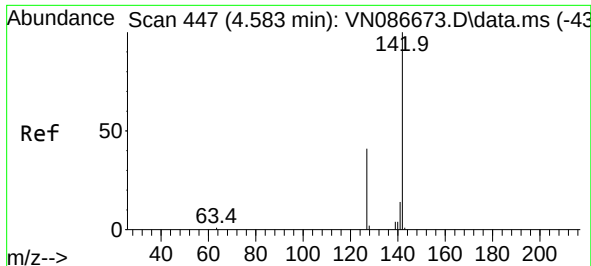
Tgt Ion:168 Resp: 235882
Ion Ratio Lower Upper
168 100
99 59.0 47.0 70.4



#3
Chloromethane
Concen: 5.244 ug/l
RT: 2.377 min Scan# 72
Delta R.T. 0.018 min
Lab File: VN086842.D
Acq: 03 Jun 2025 14:57

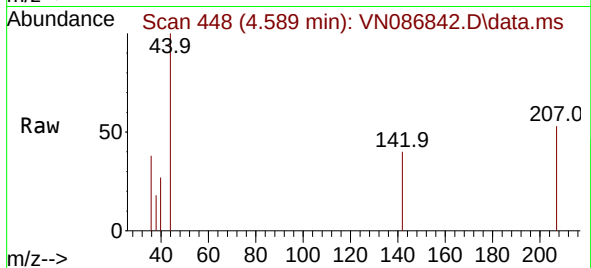
Tgt Ion: 50 Resp: 20205
Ion Ratio Lower Upper
50 100
52 38.8 25.9 38.9



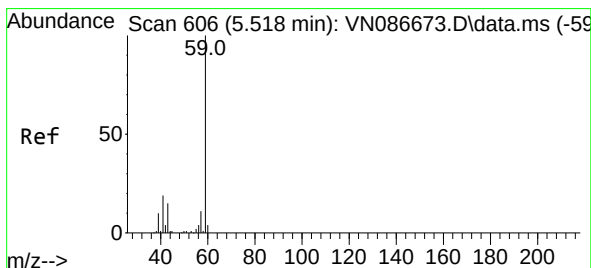
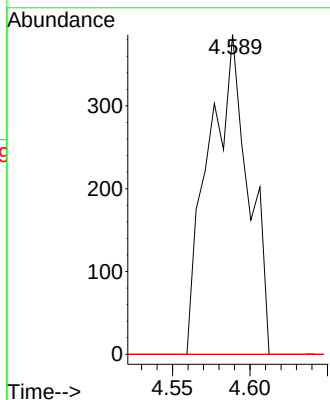
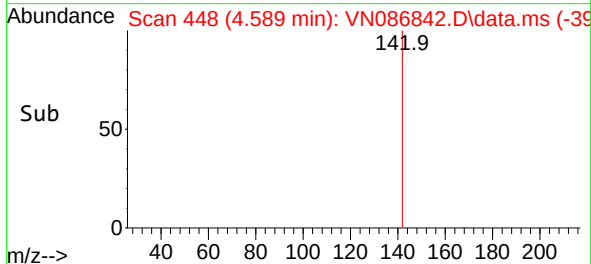


#10
Methyl Iodide
Concen: 0.224 ug/l
RT: 4.589 min Scan# 447
Delta R.T. 0.006 min
Lab File: VN086842.D
Acq: 03 Jun 2025 14:57

Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#03

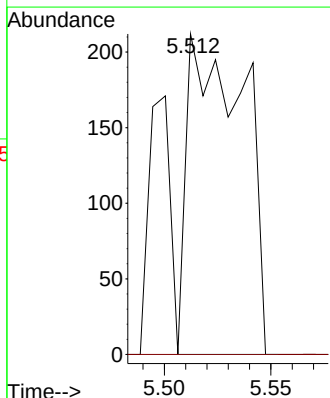
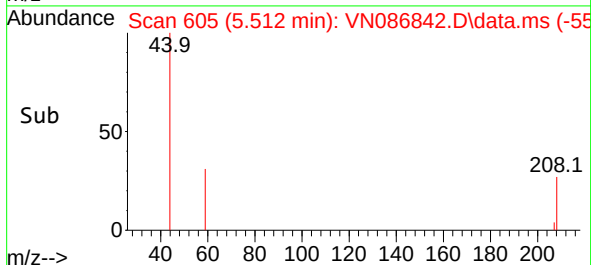
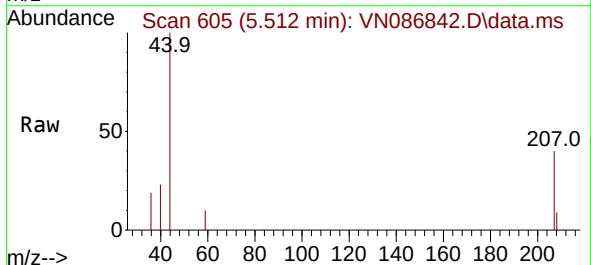


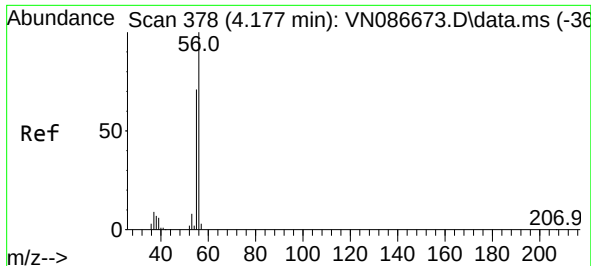
Tgt Ion:142 Resp: 689
Ion Ratio Lower Upper
142 100
127 0.0 32.4 48.6#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 0.655 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.006 min
Lab File: VN086842.D
Acq: 03 Jun 2025 14:57

Tgt Ion: 59 Resp: 389
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

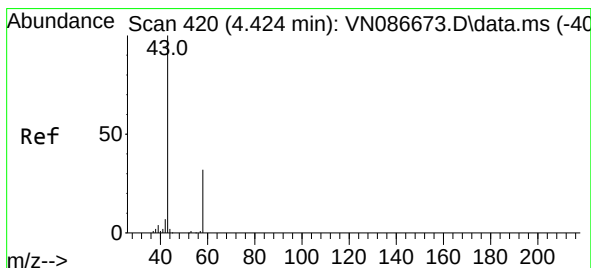
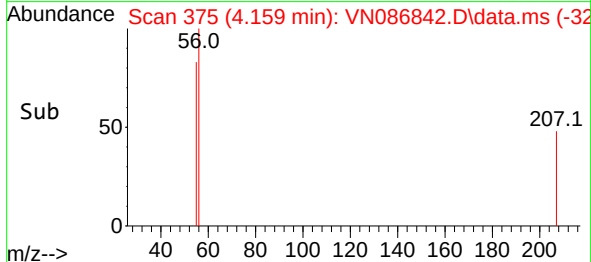
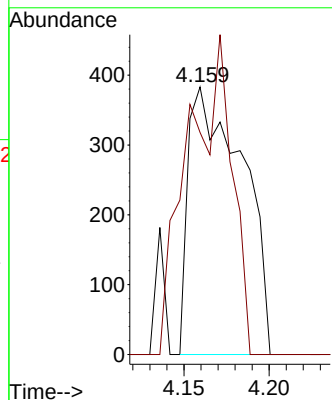
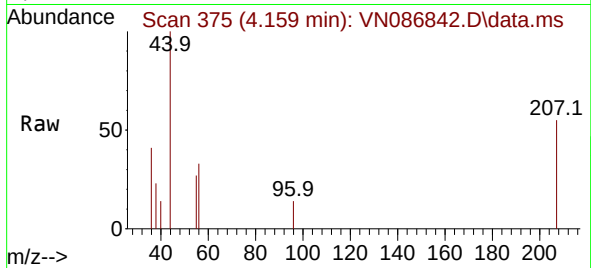




#13
Acrolein
Concen: 1.336 ug/l
RT: 4.159 min Scan# 31
Delta R.T. -0.018 min
Lab File: VN086842.D
Acq: 03 Jun 2025 14:57

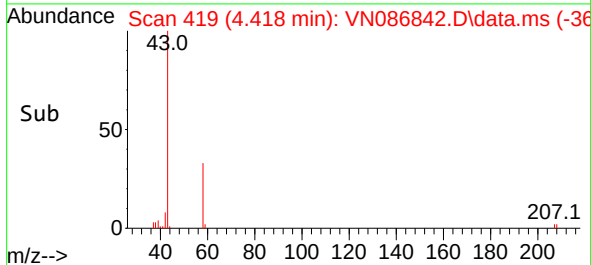
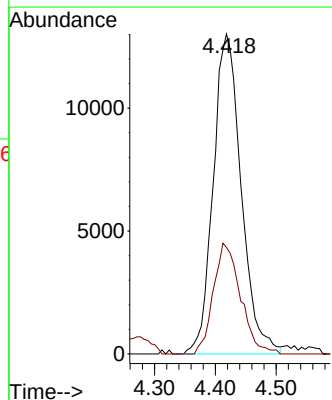
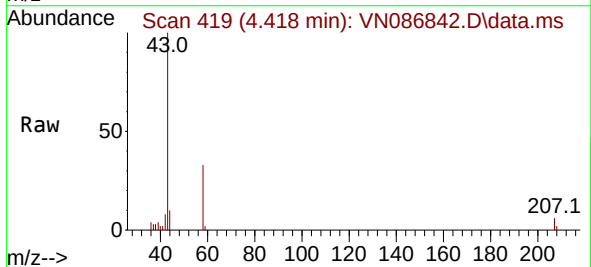
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#03

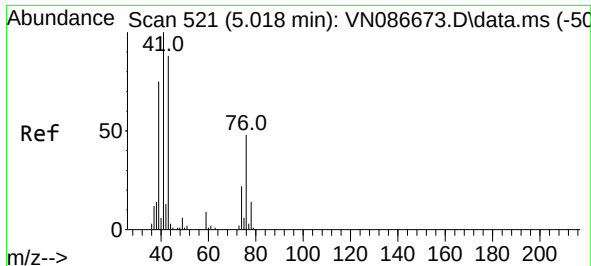
Tgt Ion: 56 Resp: 848
Ion Ratio Lower Upper
56 100
55 96.3 55.7 83.5#



#16
Acetone
Concen: 34.104 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN086842.D
Acq: 03 Jun 2025 14:57

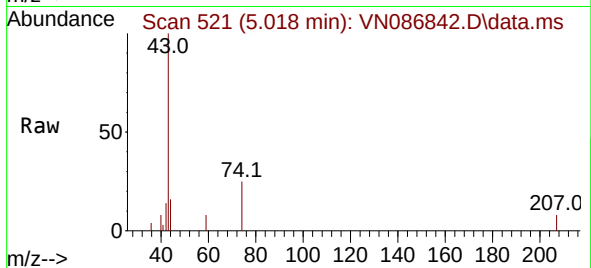
Tgt Ion: 43 Resp: 41581
Ion Ratio Lower Upper
43 100
58 33.3 25.8 38.6



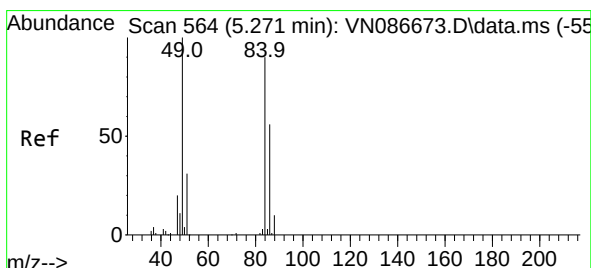
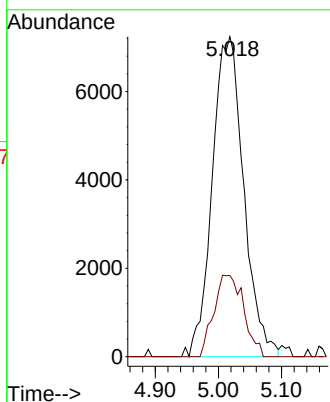
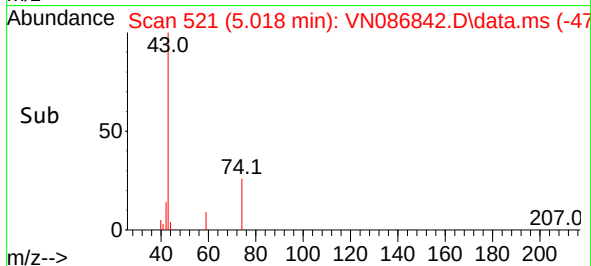


#18
Methyl Acetate
Concen: 7.334 ug/l
RT: 5.018 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN086842.D
Acq: 03 Jun 2025 14:57

Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#03

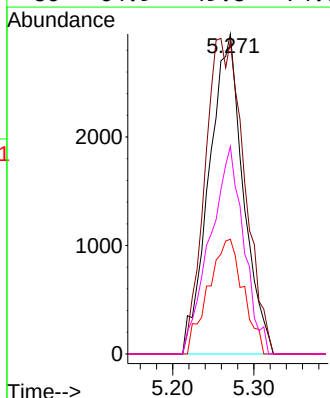
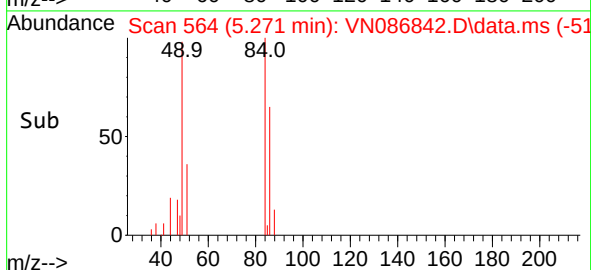
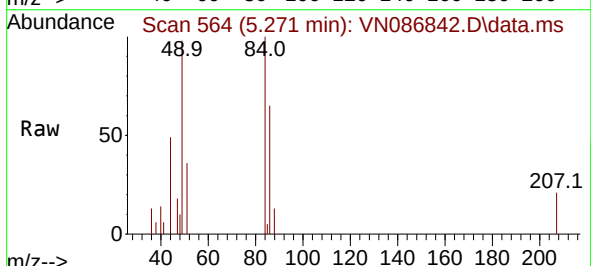


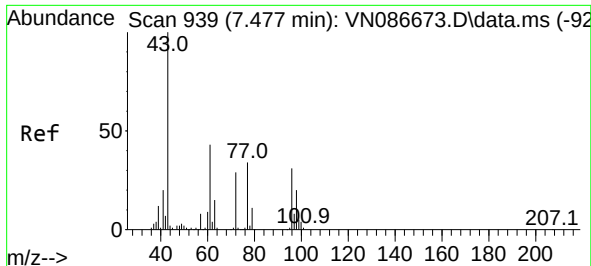
Tgt Ion: 43 Resp: 25026
Ion Ratio Lower Upper
43 100
74 24.1 20.5 30.7



#20
Methylene Chloride
Concen: 2.683 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN086842.D
Acq: 03 Jun 2025 14:57

Tgt Ion: 84 Resp: 8632
Ion Ratio Lower Upper
84 100
49 97.8 88.8 133.2
51 35.9 27.8 41.6
86 64.9 49.8 74.6

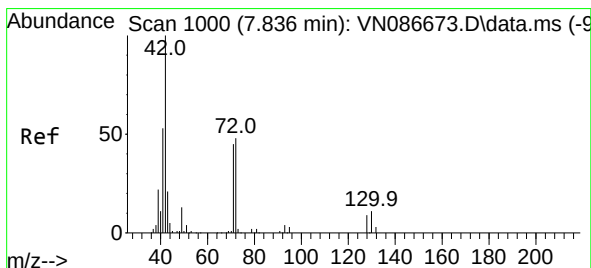
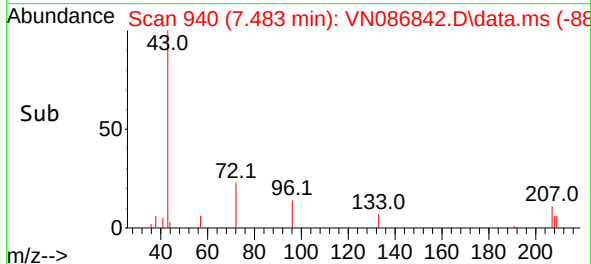
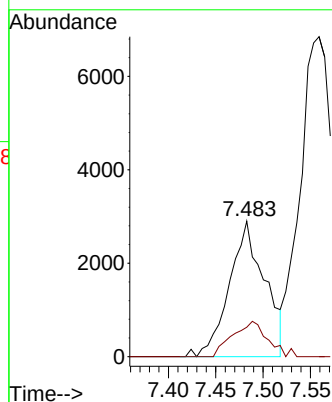
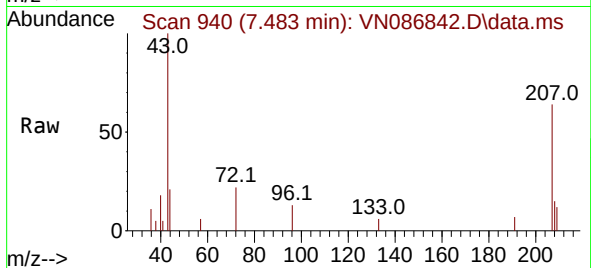




#25
2-Butanone
Concen: 3.986 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN086842.D
Acq: 03 Jun 2025 14:57

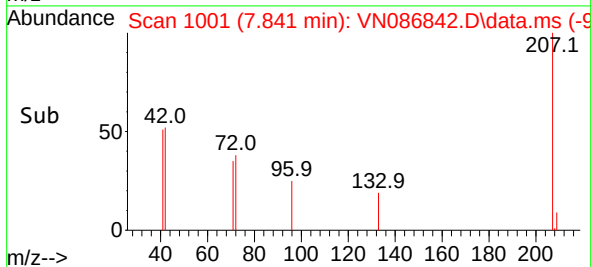
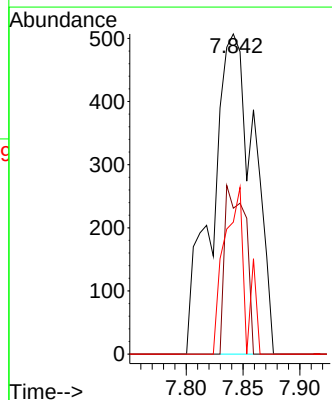
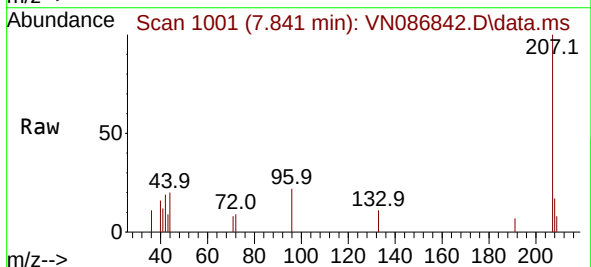
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MSVOA_N
ClientSampleId :
PB168225ZHE#03

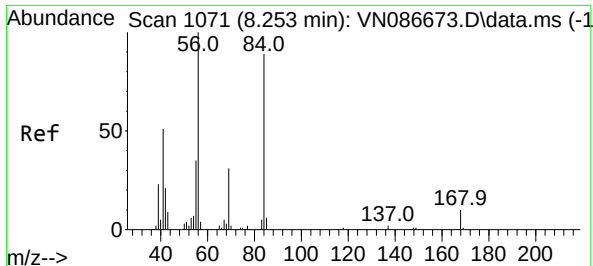
Tgt Ion: 43 Resp: 7510
Ion Ratio Lower Upper
43 100
72 21.8 23.1 34.7#



#29
Tetrahydrofuran
Concen: 1.055 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VN086842.D
Acq: 03 Jun 2025 14:57

Tgt Ion: 42 Resp: 1297
Ion Ratio Lower Upper
42 100
72 25.9 38.7 58.1#
71 26.4 36.2 54.4#

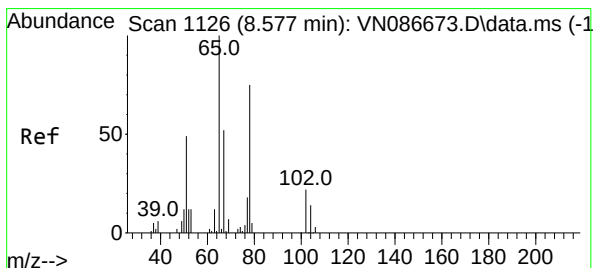
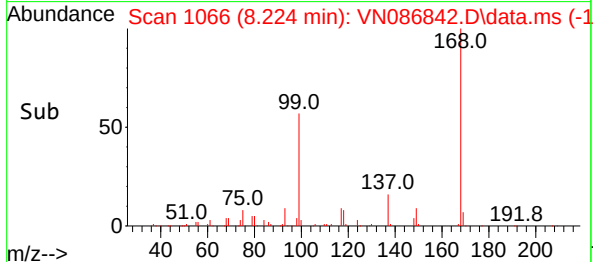
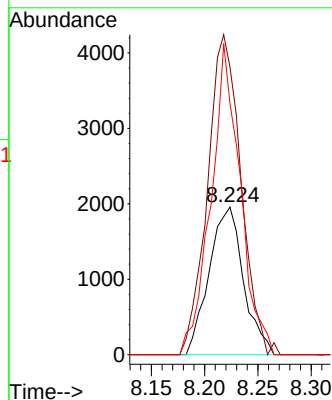
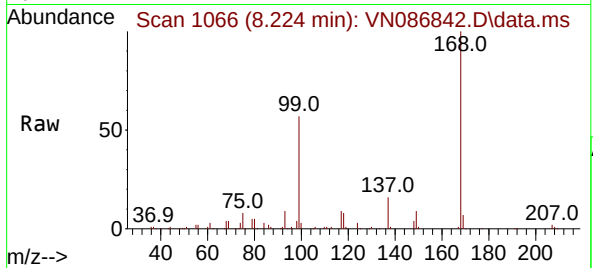




#31
Cyclohexane
Concen: 0.898 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN086842.D
Acq: 03 Jun 2025 14:57

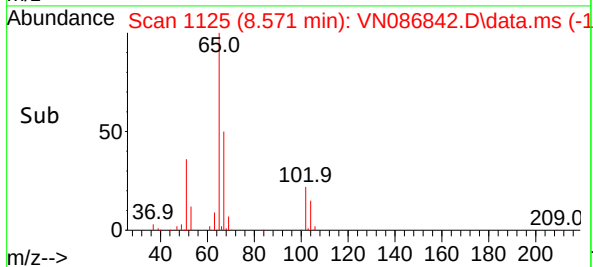
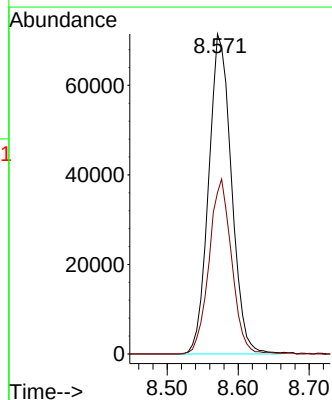
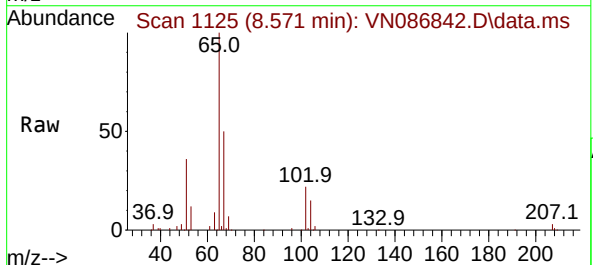
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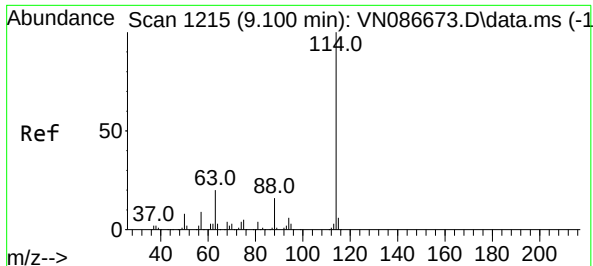
Tgt Ion: 56 Resp: 4391
Ion Ratio Lower Upper
56 100
69 195.0 25.0 37.6#
84 170.5 71.0 106.4#



#33
1,2-Dichloroethane-d4
Concen: 48.935 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. -0.006 min
Lab File: VN086842.D
Acq: 03 Jun 2025 14:57

Tgt Ion: 65 Resp: 159501
Ion Ratio Lower Upper
65 100
67 54.1 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN086842.D

Acq: 03 Jun 2025 14:57

Instrument :

MSVOA_N

ClientSampleId :

PB168225ZHE#03

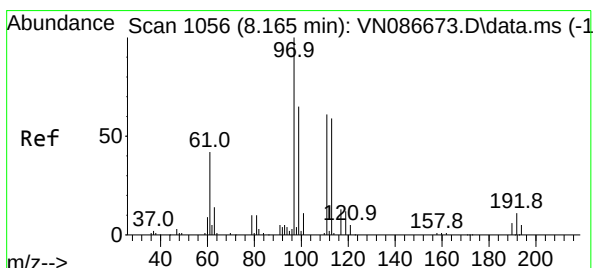
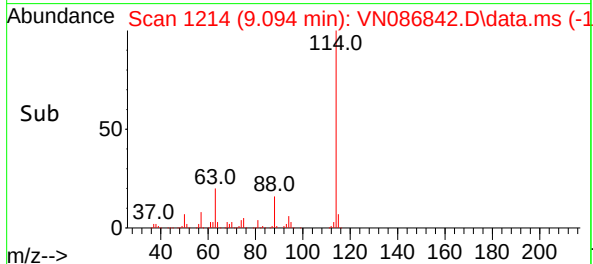
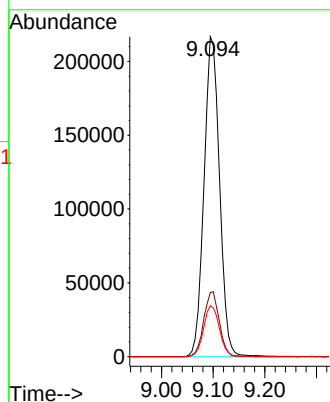
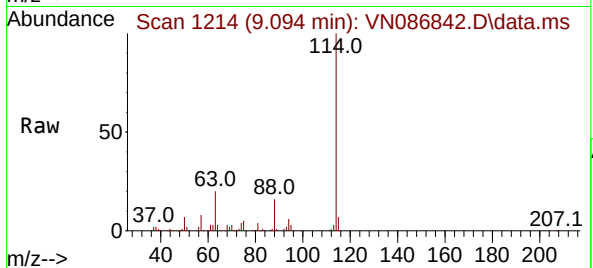
Tgt Ion:114 Resp: 452805

Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.2

88 15.9 0.0 31.2



#35

Dibromofluoromethane

Concen: 52.049 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086842.D

Acq: 03 Jun 2025 14:57

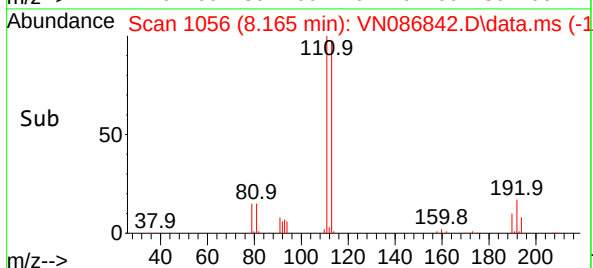
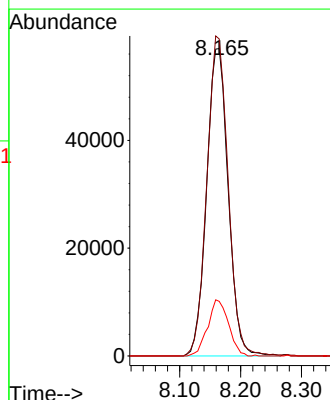
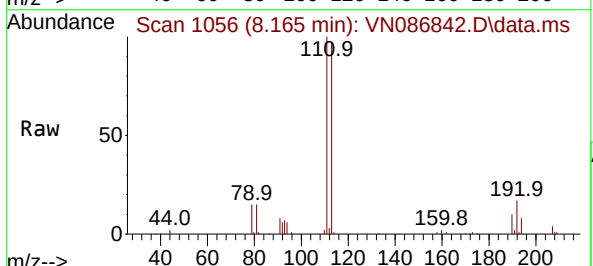
Tgt Ion:113 Resp: 140358

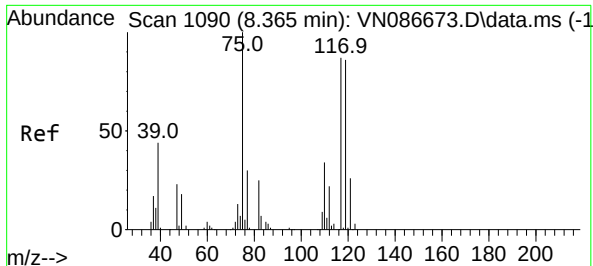
Ion Ratio Lower Upper

113 100

111 102.4 82.2 123.2

192 17.6 13.8 20.8





#36

1,1-Dichloropropene

Concen: 4.787 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.153 min

Lab File: VN086842.D

Acq: 03 Jun 2025 14:57

Instrument :

MSVOA_N

ClientSampleId :

PB168225ZHE#03

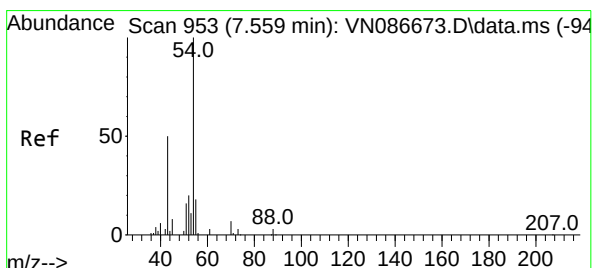
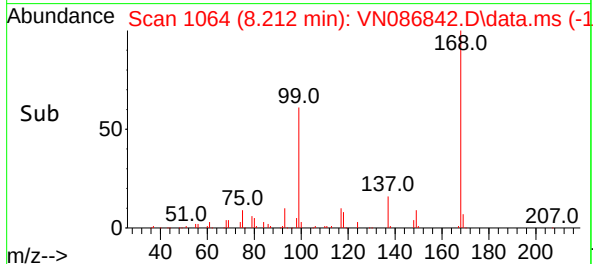
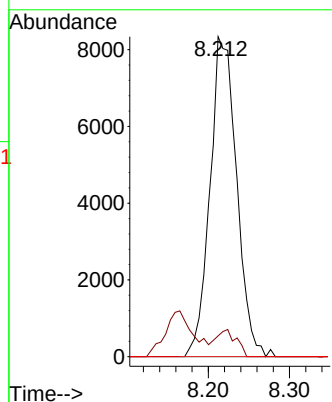
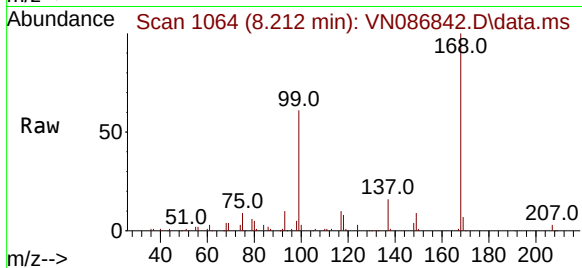
Tgt Ion: 75 Resp: 19043

Ion Ratio Lower Upper

75 100

110 6.5 17.5 52.5#

77 0.0 25.1 37.7#



#37

Ethyl Acetate

Concen: 4.563 ug/l

RT: 7.559 min Scan# 953

Delta R.T. 0.000 min

Lab File: VN086842.D

Acq: 03 Jun 2025 14:57

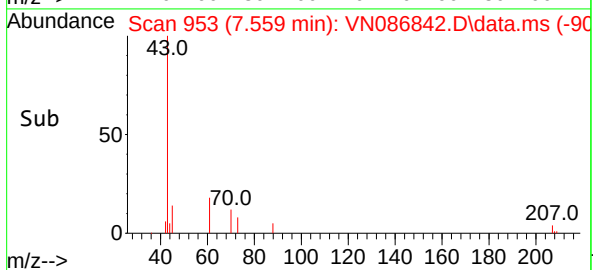
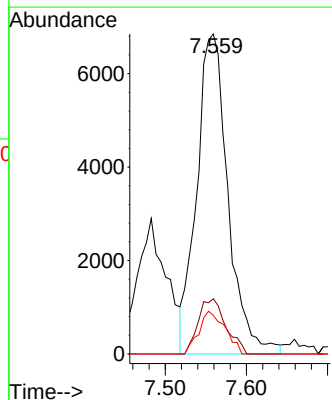
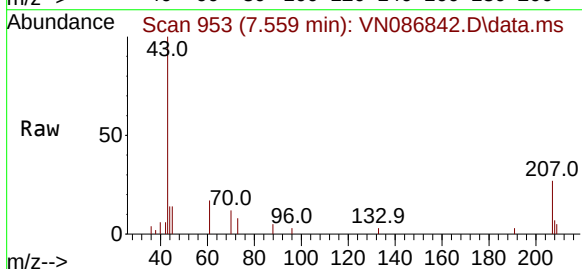
Tgt Ion: 43 Resp: 18333

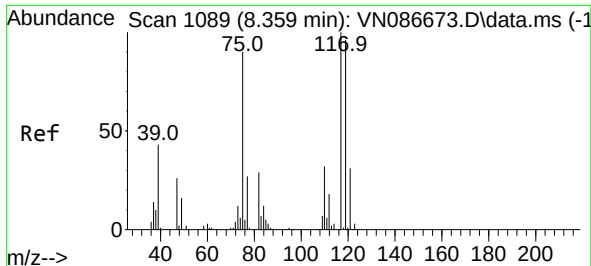
Ion Ratio Lower Upper

43 100

61 15.2 11.6 17.4

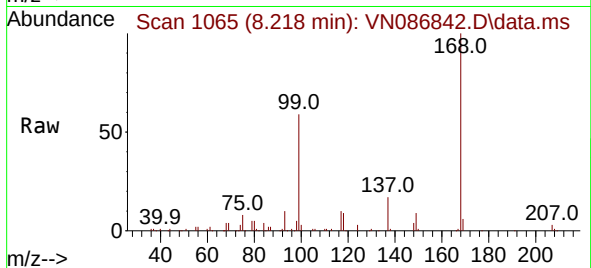
70 11.2 9.4 14.0



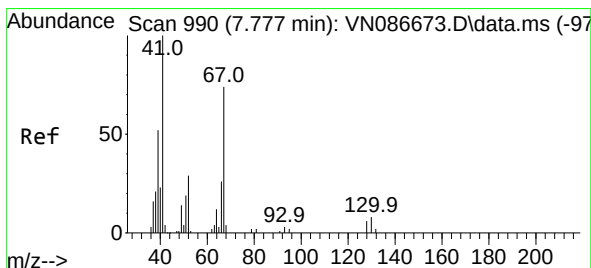
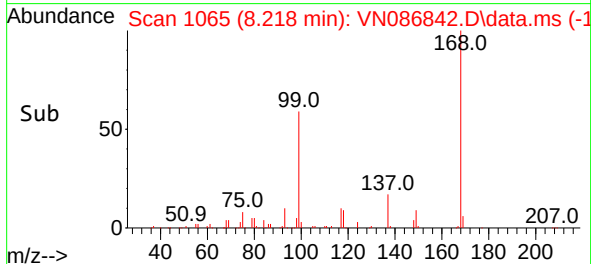
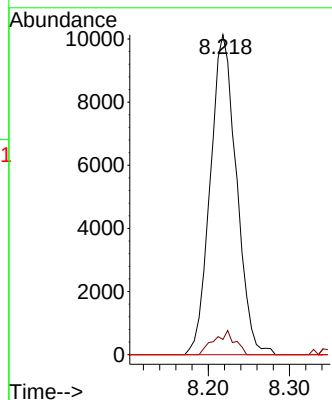


#38
Carbon Tetrachloride
Concen: 5.799 ug/l
RT: 8.218 min Scan# 1001
Delta R.T. -0.141 min
Lab File: VN086842.D
Acq: 03 Jun 2025 14:57

Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#03

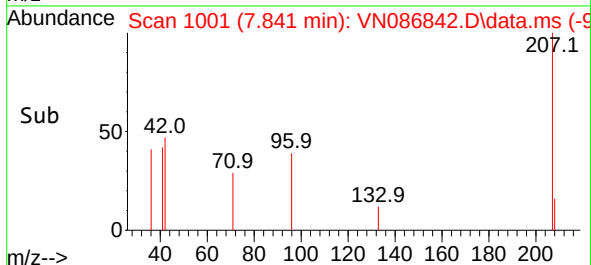
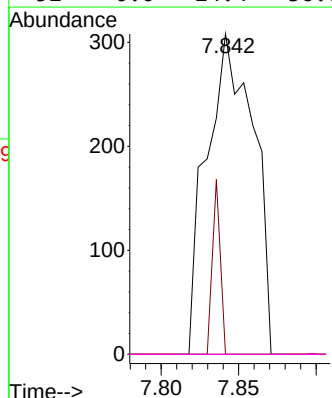
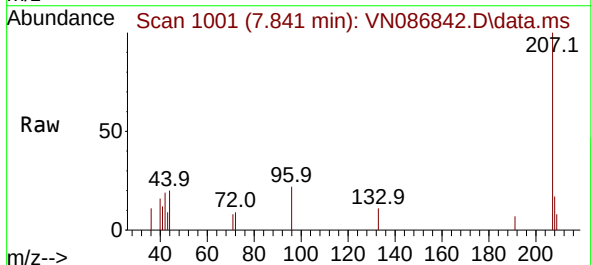


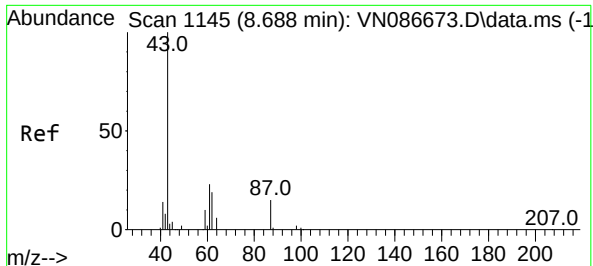
Tgt Ion: 117 Resp: 22726
Ion Ratio Lower Upper
117 100
119 4.7 77.0 115.6#
121 0.0 25.0 37.6#



#41
Methacrylonitrile
Concen: 0.297 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.065 min
Lab File: VN086842.D
Acq: 03 Jun 2025 14:57

Tgt Ion: 41 Resp: 645
Ion Ratio Lower Upper
41 100
39 9.1 44.9 67.3#
67 0.0 63.4 95.0#
52 0.0 24.4 36.6#

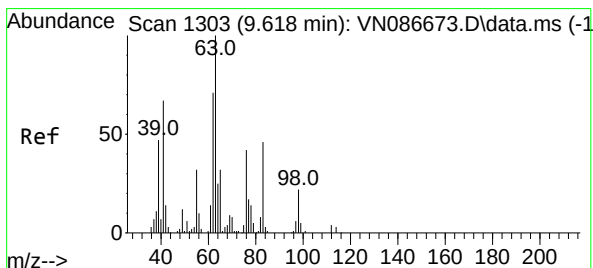
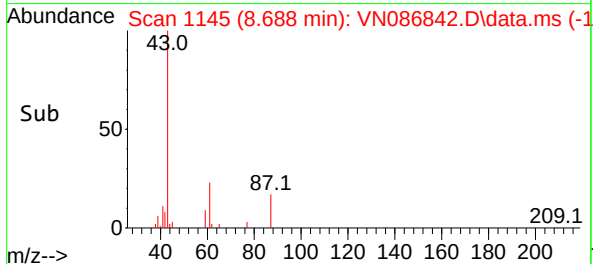
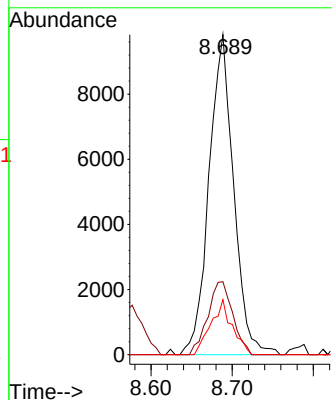
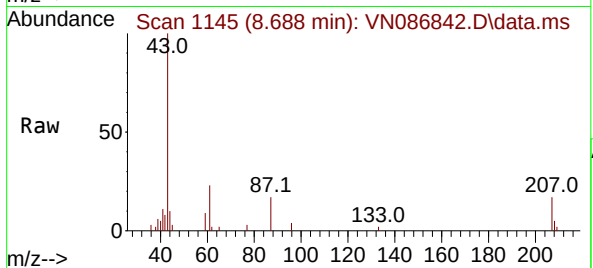




#43
Isopropyl Acetate
Concen: 2.575 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN086842.D
Acq: 03 Jun 2025 14:57

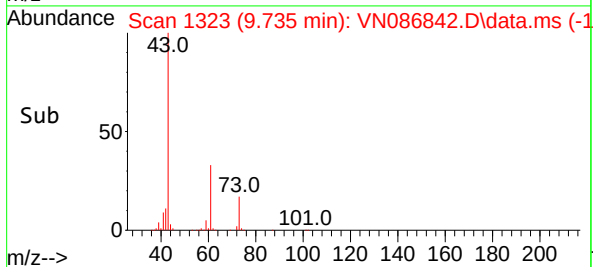
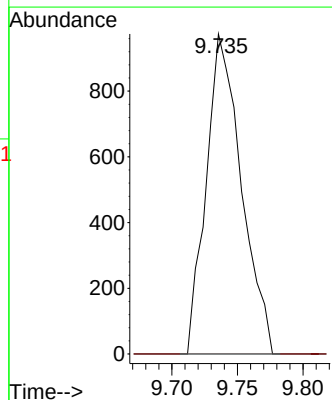
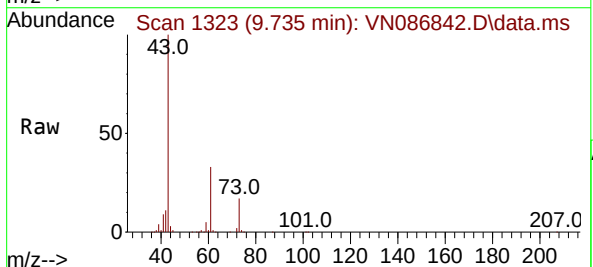
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#03

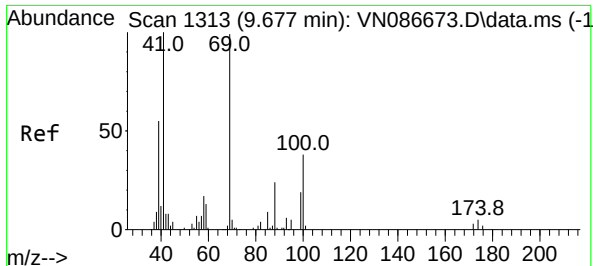
Tgt Ion	Ratio	Lower	Upper
43	100		
61	23.1	21.4	32.2
87	14.8	11.1	16.7



#45
1,2-Dichloropropane
Concen: 0.589 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.118 min
Lab File: VN086842.D
Acq: 03 Jun 2025 14:57

Tgt Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.8	38.6#

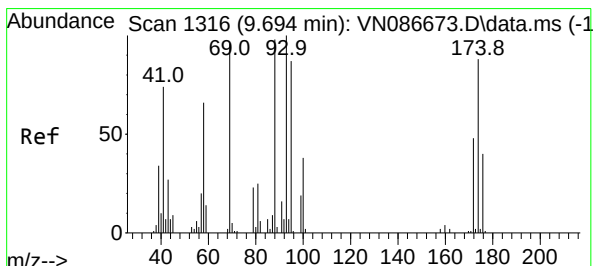
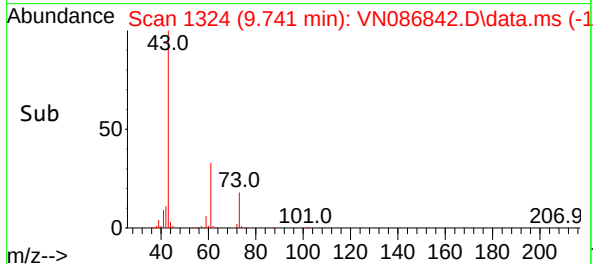
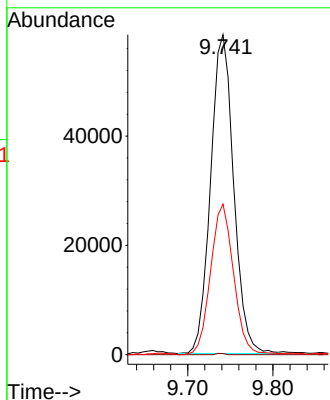
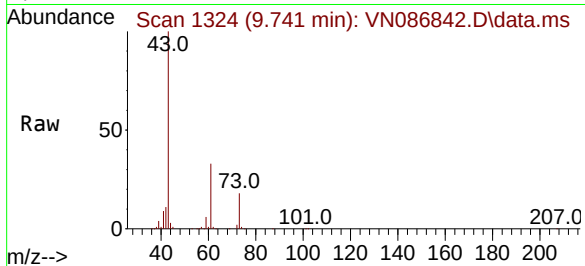




#48
Methyl methacrylate
Concen: 35.127 ug/l
RT: 9.741 min Scan# 1313
Delta R.T. 0.065 min
Lab File: VN086842.D
Acq: 03 Jun 2025 14:57

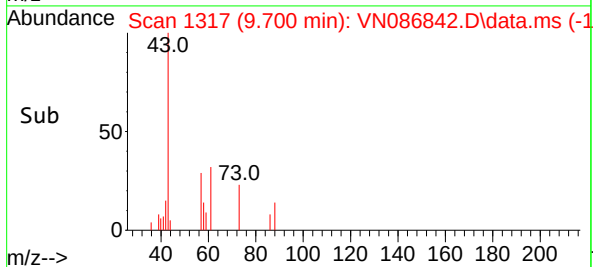
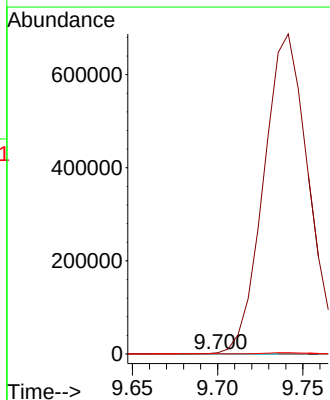
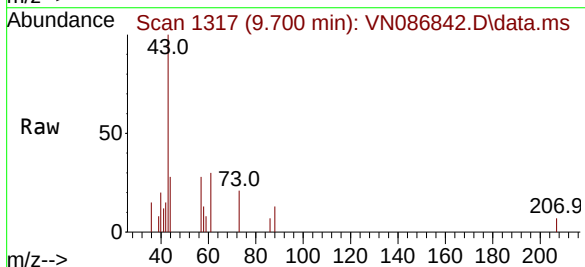
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#03

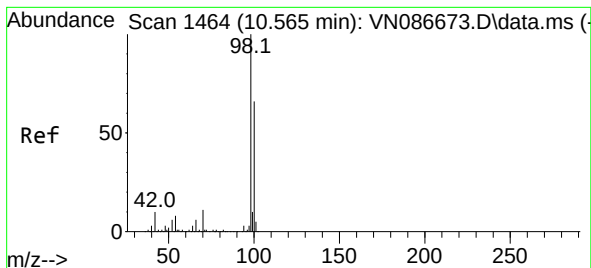
Tgt Ion: 41 Resp: 109642
Ion Ratio Lower Upper
41 100
69 0.1 74.1 111.1#
39 47.2 44.1 66.1



#49
1,4-Dioxane
Concen: 8.700 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. 0.006 min
Lab File: VN086842.D
Acq: 03 Jun 2025 14:57

Tgt Ion: 88 Resp: 575
Ion Ratio Lower Upper
88 100
43 0.0 23.6 35.4#
58 72.0 55.3 82.9





#50

Toluene-d8

Concen: 50.926 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN086842.D

Acq: 03 Jun 2025 14:57

Instrument :

MSVOA_N

ClientSampleId :

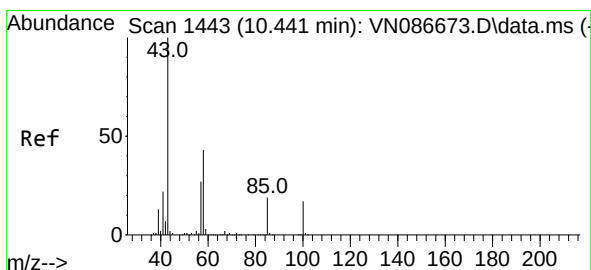
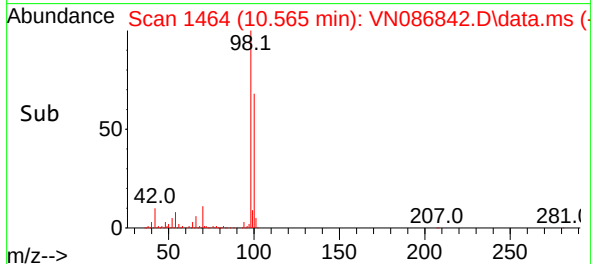
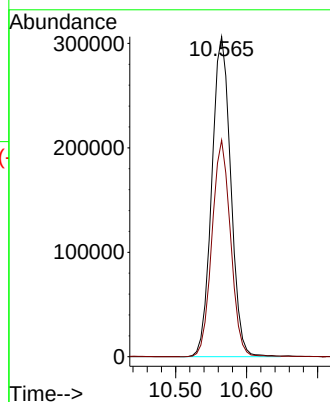
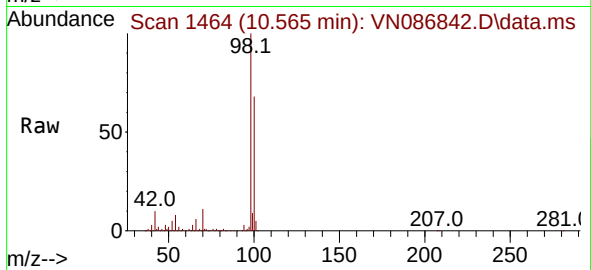
PB168225ZHE#03

Tgt Ion: 98 Resp: 569101

Ion Ratio Lower Upper

98 100

100 66.4 52.9 79.3



#51

4-Methyl-2-Pentanone

Concen: 1.582 ug/l

RT: 10.477 min Scan# 1449

Delta R.T. 0.035 min

Lab File: VN086842.D

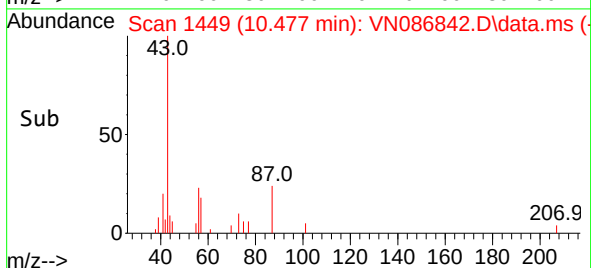
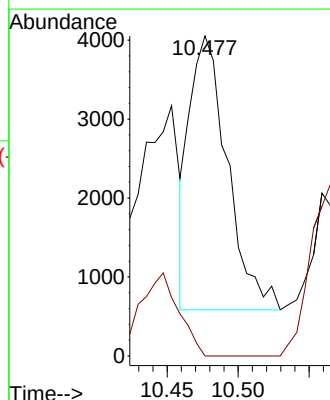
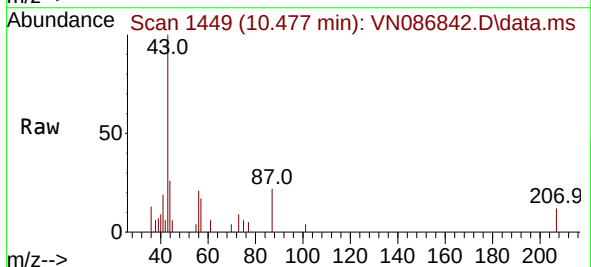
Acq: 03 Jun 2025 14:57

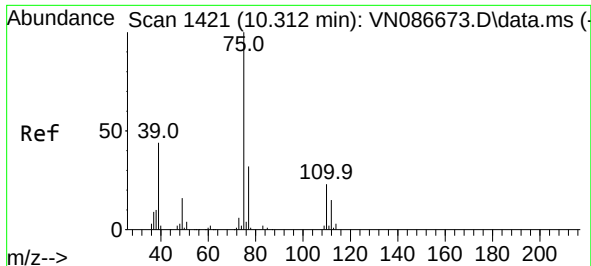
Tgt Ion: 43 Resp: 6427

Ion Ratio Lower Upper

43 100

58 0.0 33.9 50.9#

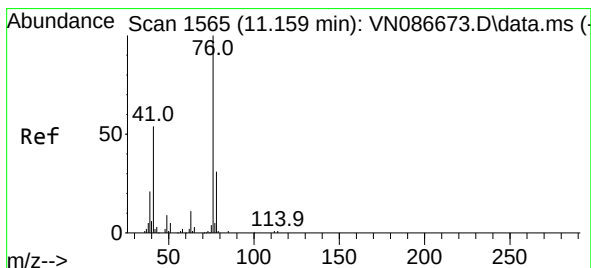
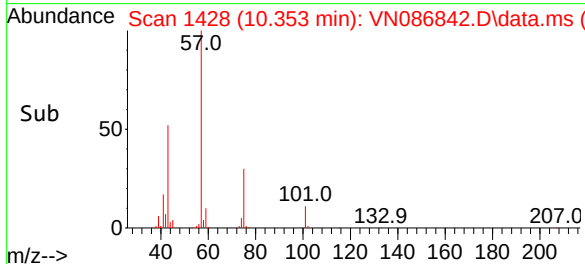
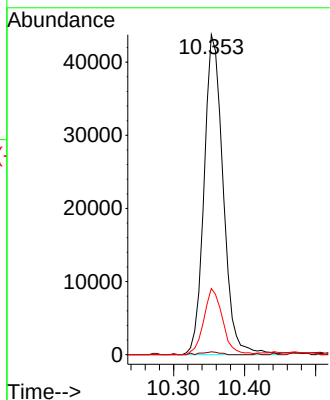
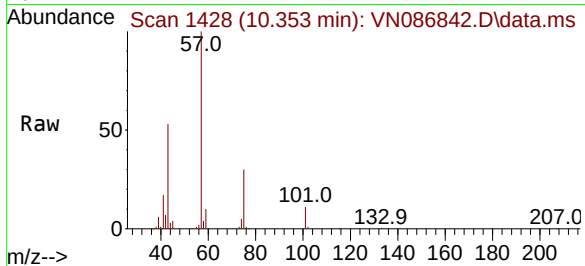




#54
 cis-1,3-Dichloropropene
 Concen: 16.479 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.041 min
 Lab File: VN086842.D
 Acq: 03 Jun 2025 14:57

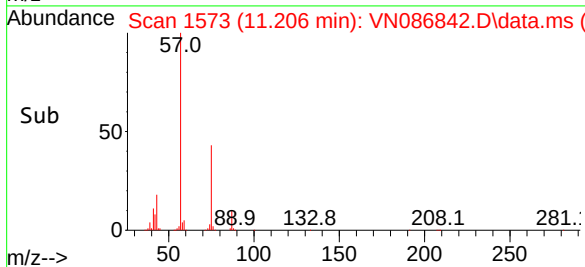
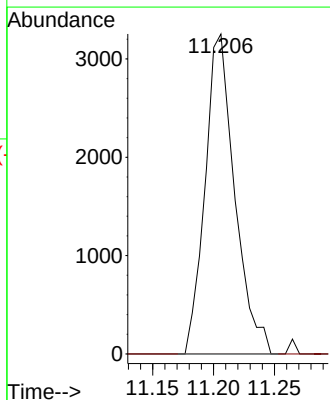
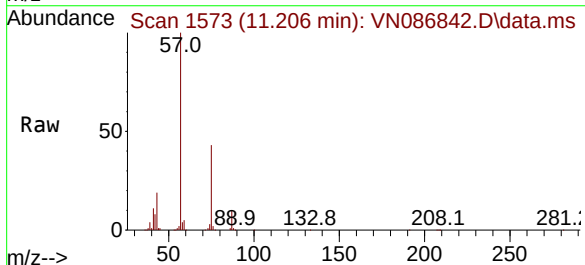
Instrument :
 MSVOA_N
 ClientSampleId :
 PB168225ZHE#03

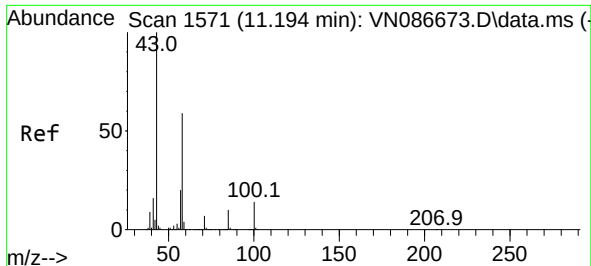
Tgt Ion: 75 Resp: 81623
 Ion Ratio Lower Upper
 75 100
 77 0.9 25.3 37.9#
 39 20.6 35.2 52.8#



#57
 1,3-Dichloropropane
 Concen: 1.064 ug/l
 RT: 11.206 min Scan# 1573
 Delta R.T. 0.047 min
 Lab File: VN086842.D
 Acq: 03 Jun 2025 14:57

Tgt Ion: 76 Resp: 5512
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#

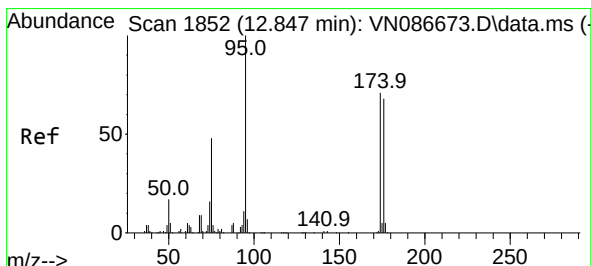
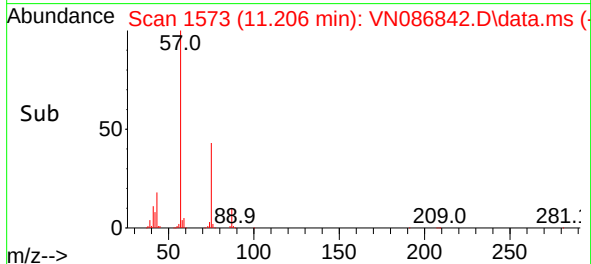
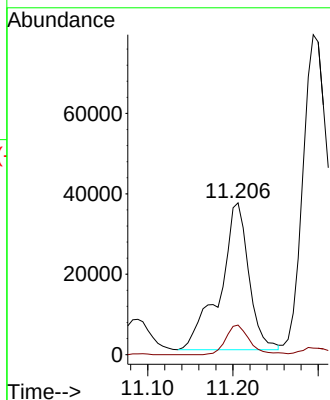
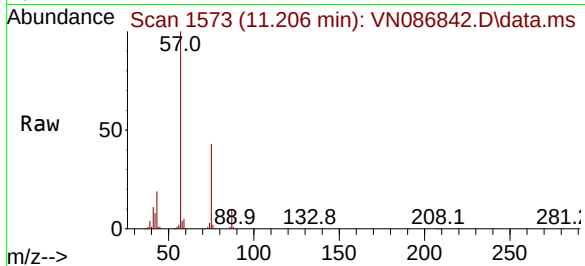




#59
2-Hexanone
Concen: 28.957 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.012 min
Lab File: VN086842.D
Acq: 03 Jun 2025 14:57

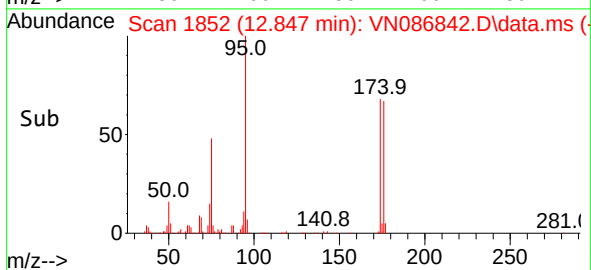
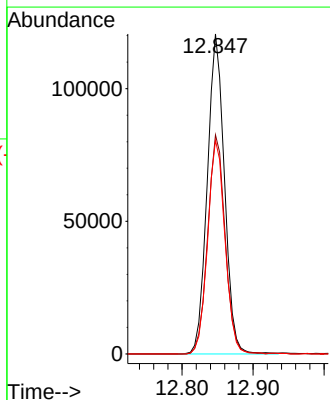
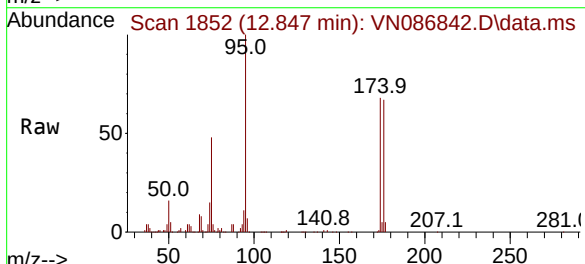
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#03

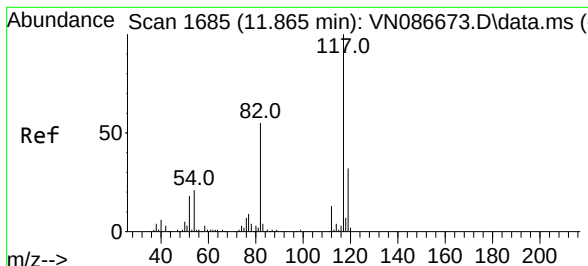
Tgt Ion: 43 Resp: 85897
Ion Ratio Lower Upper
43 100
58 16.7 29.8 89.5#



#62
4-Bromofluorobenzene
Concen: 51.364 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086842.D
Acq: 03 Jun 2025 14:57

Tgt Ion: 95 Resp: 202673
Ion Ratio Lower Upper
95 100
174 69.6 0.0 145.4
176 67.3 0.0 137.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086842.D

Acq: 03 Jun 2025 14:57

Instrument :

MSVOA_N

ClientSampleId :

PB168225ZHE#03

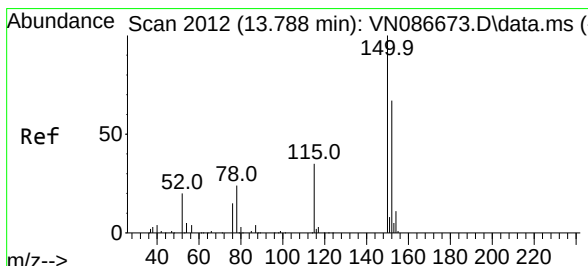
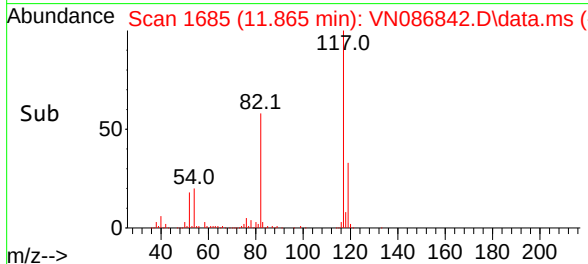
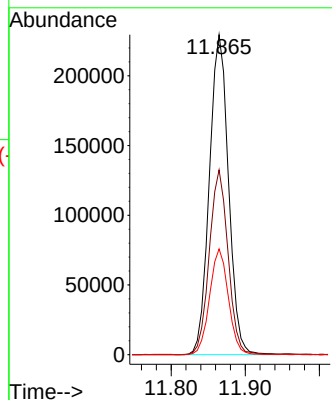
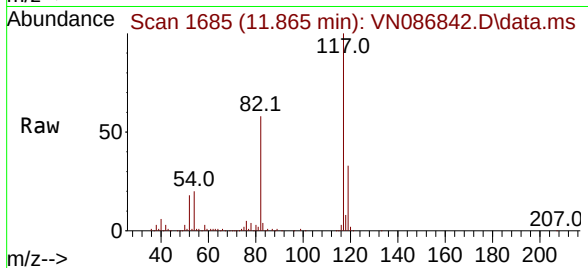
Tgt Ion:117 Resp: 411779

Ion Ratio Lower Upper

117 100

82 57.8 44.2 66.2

119 33.1 25.4 38.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN086842.D

Acq: 03 Jun 2025 14:57

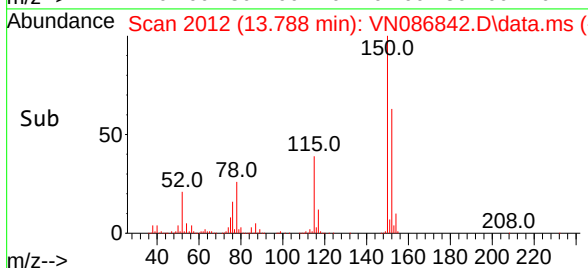
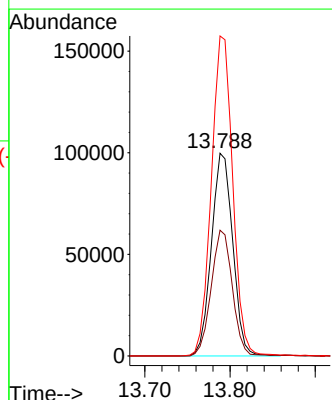
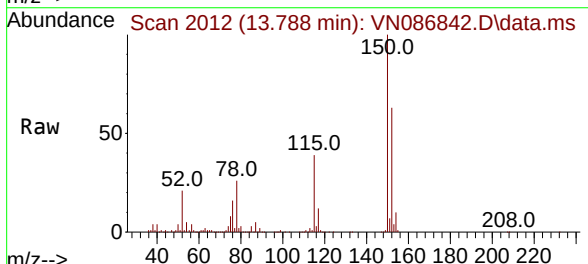
Tgt Ion:152 Resp: 173583

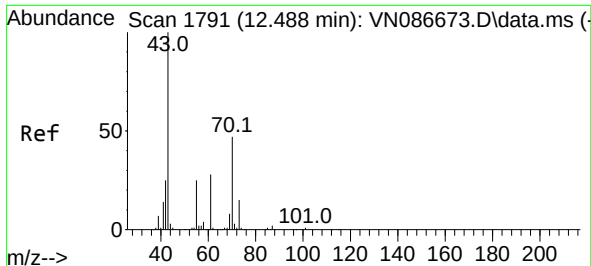
Ion Ratio Lower Upper

152 100

115 61.4 30.0 90.1

150 158.5 0.0 347.8

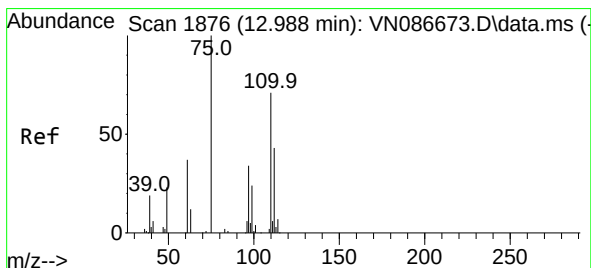
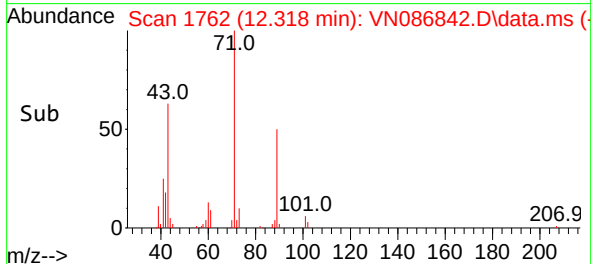
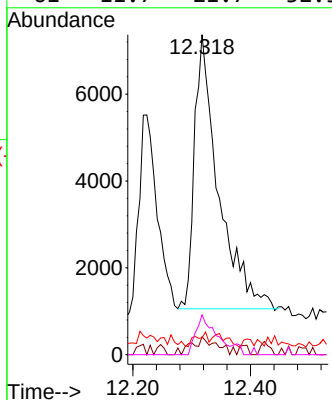
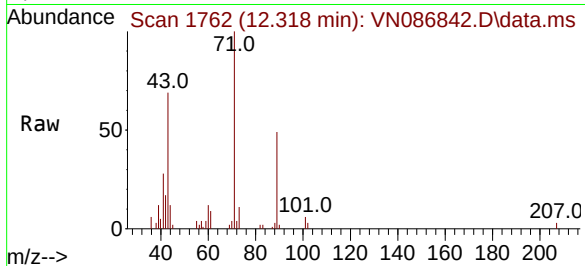




#74
N-amy1 acetate
Concen: 3.189 ug/l
RT: 12.318 min Scan# 11
Delta R.T. -0.171 min
Lab File: VN086842.D
Acq: 03 Jun 2025 14:57

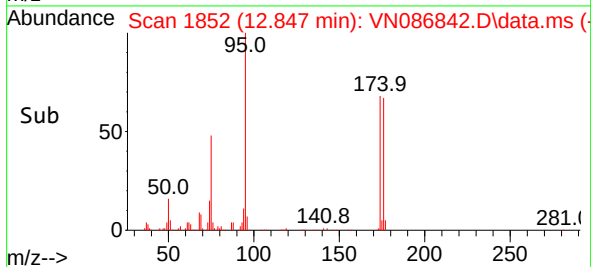
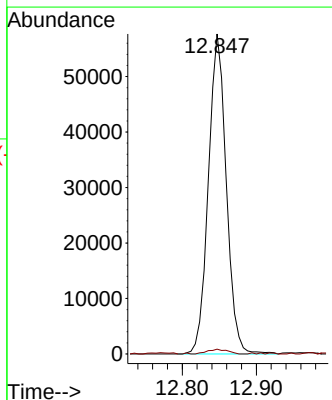
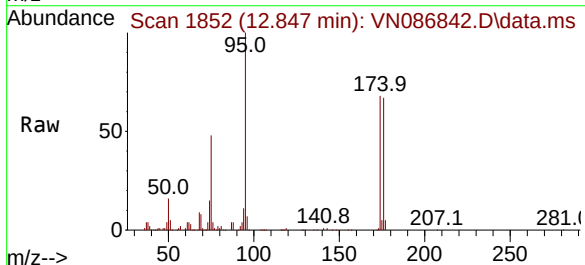
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#03

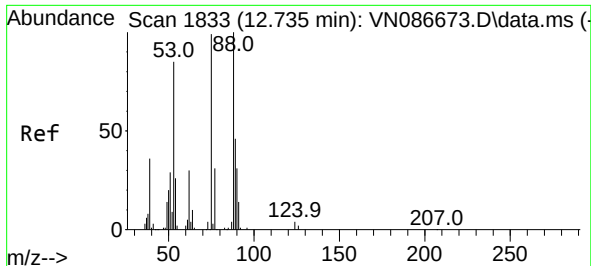
Tgt Ion:	43	Resp:	17865
Ion	Ratio	Lower	Upper
43	100		
70	4.0	37.9	56.9#
55	2.5	20.5	30.7#
61	11.7	21.7	32.5#



#76
1,2,3-Trichloropropane
Concen: 24.674 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086842.D
Acq: 03 Jun 2025 14:57

Tgt Ion:	75	Resp:	96862
Ion	Ratio	Lower	Upper
75	100		
77	1.6	96.0	288.1#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 62.268 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086842.D
 Acq: 03 Jun 2025 14:57

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168225ZHE#03

Tgt Ion: 75 Resp: 96862
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.4 105.6#
 89 0.0 32.4 48.6#

