

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041825\
 Data File : VN086348.D
 Acq On : 18 Apr 2025 16:55
 Operator : JC\MD
 Sample : PB167623ZHE#13
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167623ZHE#13

Quant Time: Apr 19 02:28:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

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

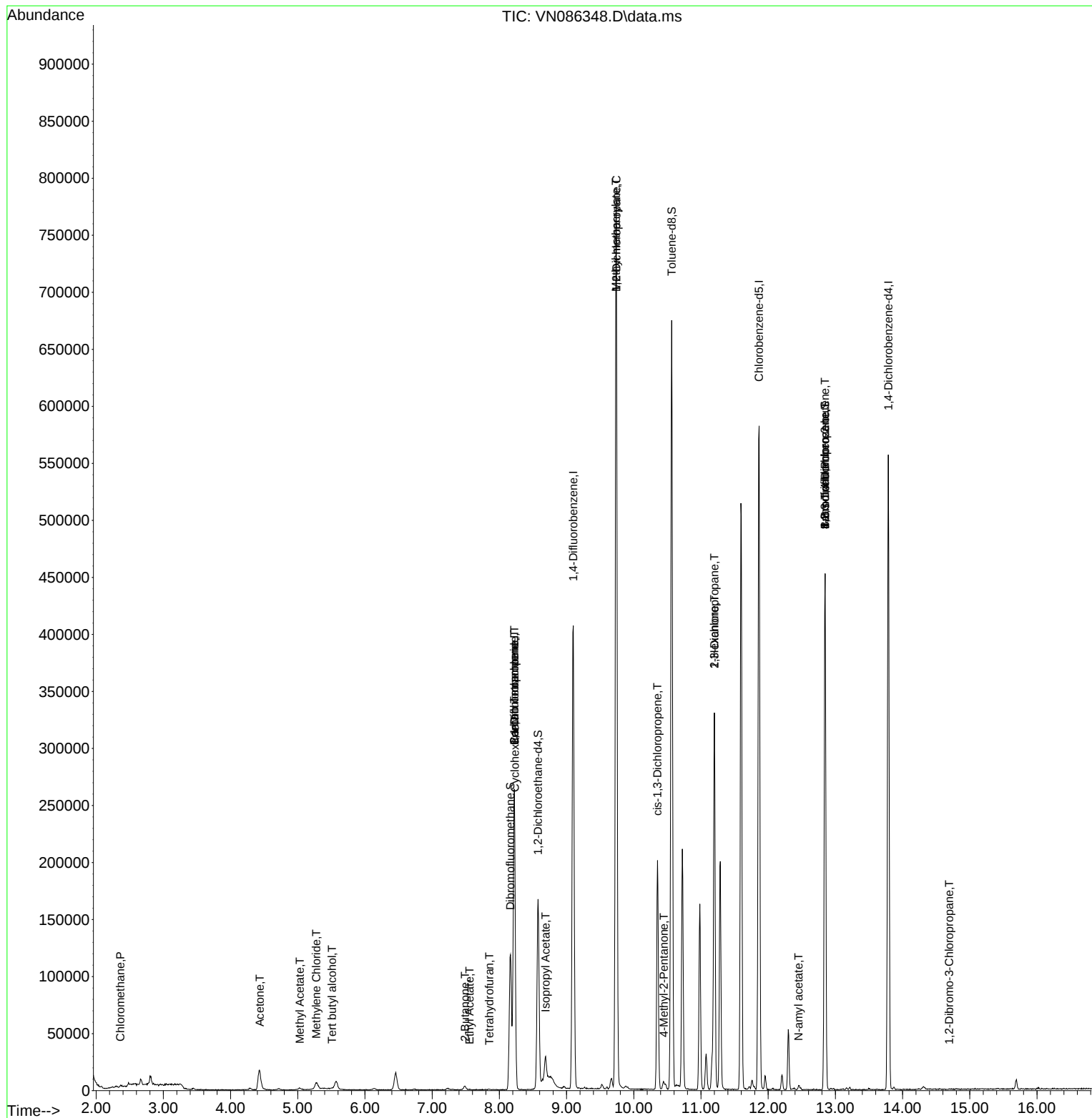
Internal Standards						
1) Pentafluorobenzene	8.224	168	188035	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	362239	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	335998	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	147603	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	137538	50.442	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 100.880%	
35) Dibromofluoromethane	8.165	113	89471	53.219	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 106.440%	
50) Toluene-d8	10.565	98	460459	51.247	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 102.500%	
62) 4-Bromofluorobenzene	12.847	95	167736	51.182	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 102.360%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	956	0.295	ug/l #	86
11) Tert butyl alcohol	5.512	59	314	0.631	ug/l #	72
13) Acrolein	4.195	56	54	Below Cal	#	13
16) Acetone	4.436	43	34209	31.295	ug/l	96
18) Methyl Acetate	5.030	43	4066	1.242	ug/l #	82
20) Methylene Chloride	5.277	84	4395	1.744	ug/l #	84
25) 2-Butanone	7.488	43	6429	3.788	ug/l #	81
29) Tetrahydrofuran	7.853	42	352	0.310	ug/l #	32
31) Cyclohexane	8.230	56	4912	1.112	ug/l #	30
36) 1,1-Dichloropropene	8.224	75	15884	4.730	ug/l #	49
37) Ethyl Acetate	7.559	43	866	0.245	ug/l #	68
38) Carbon Tetrachloride	8.224	117	19817	6.197	ug/l #	16
43) Isopropyl Acetate	8.688	43	40251	4.561	ug/l #	79
45) 1,2-Dichloropropane	9.741	63	859	0.326	ug/l #	43
48) Methyl methacrylate	9.735	41	70457	22.695	ug/l #	42
51) 4-Methyl-2-Pentanone	10.447	43	4561	1.260	ug/l	100
54) cis-1,3-Dichloropropene	10.353	75	37979	8.547	ug/l #	56
57) 1,3-Dichloropropane	11.200	76	3605	0.841	ug/l #	43
59) 2-Hexanone	11.200	43	68450	25.492	ug/l #	41
71) Bromoform	12.847	173	759	0.408	ug/l #	1
74) N-amyl acetate	12.453	43	4160	0.692	ug/l #	43
76) 1,2,3-Trichloropropane	12.847	75	84963	24.392	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	84963	58.581	ug/l #	10
92) 1,2-Dibromo-3-Chloropr...	14.694	75	472	0.674	ug/l #	5

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

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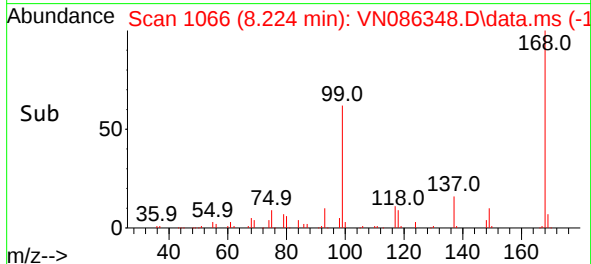
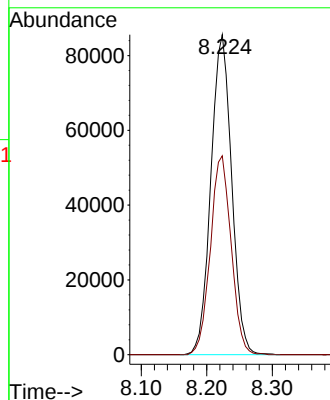
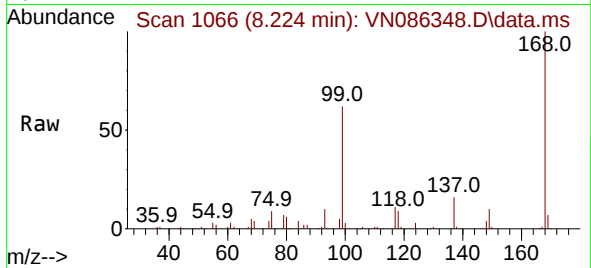




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086348.D
Acq: 18 Apr 2025 16:55

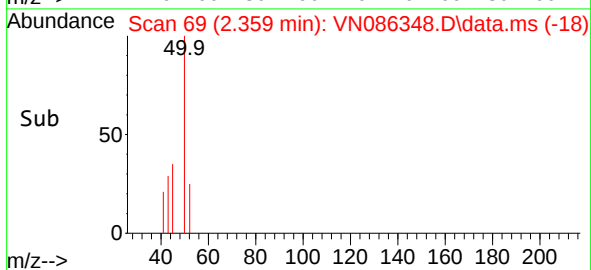
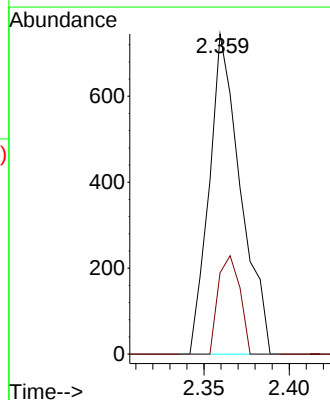
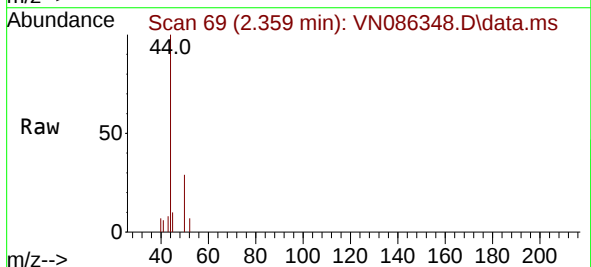
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#13

Tgt Ion:168 Resp: 188035
Ion Ratio Lower Upper
168 100
99 62.1 52.5 78.7



#3
Chloromethane
Concen: 0.295 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086348.D
Acq: 18 Apr 2025 16:55

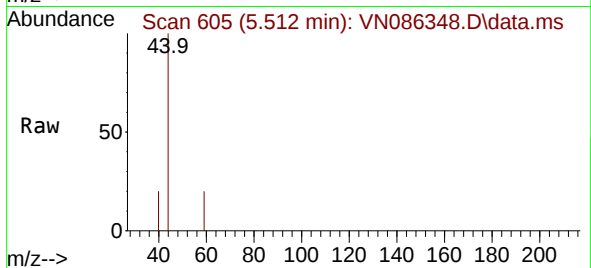
Tgt Ion: 50 Resp: 956
Ion Ratio Lower Upper
50 100
52 25.4 26.5 39.7#



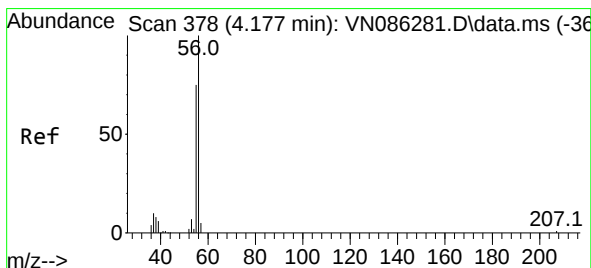
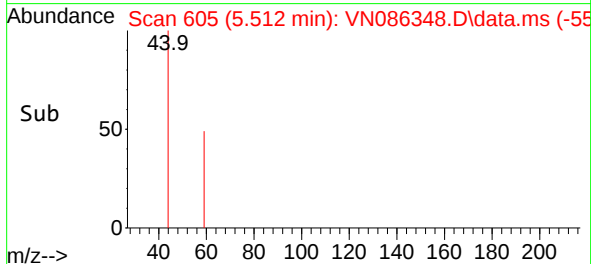
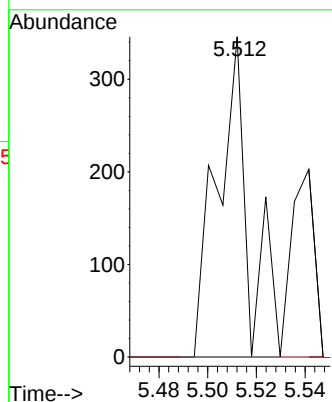


#11
Tert butyl alcohol
Concen: 0.631 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.000 min
Lab File: VN086348.D
Acq: 18 Apr 2025 16:55

Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#13

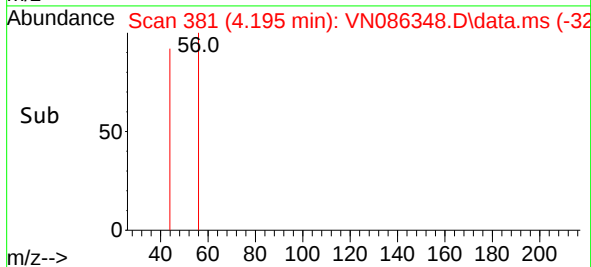
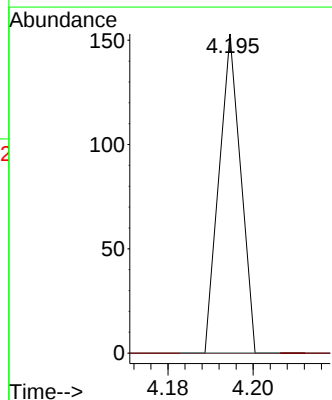
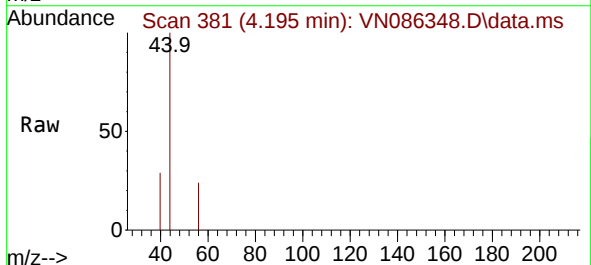


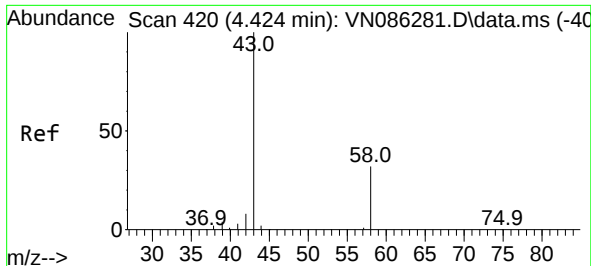
Tgt Ion: 59 Resp: 314
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#13
Acrolein
Concen: Below Cal
RT: 4.195 min Scan# 381
Delta R.T. 0.018 min
Lab File: VN086348.D
Acq: 18 Apr 2025 16:55

Tgt Ion: 56 Resp: 54
Ion Ratio Lower Upper
56 100
55 0.0 58.5 87.7#

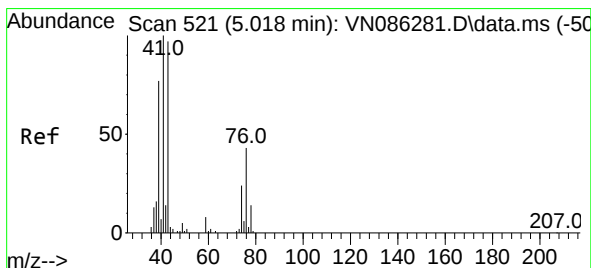
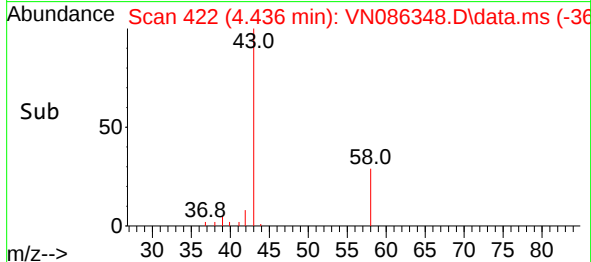
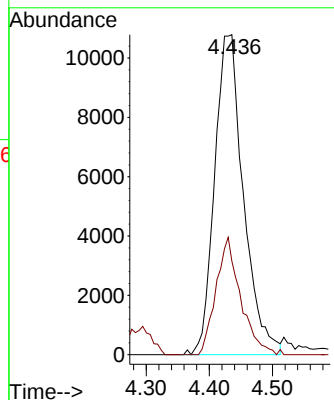
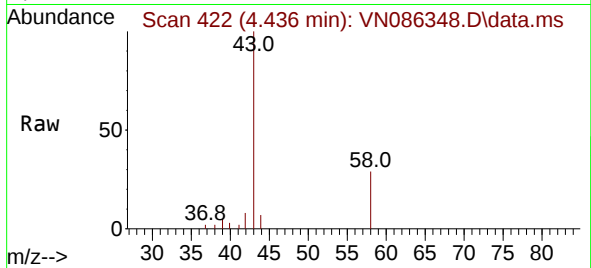




#16
Acetone
Concen: 31.295 ug/l
RT: 4.436 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN086348.D
Acq: 18 Apr 2025 16:55

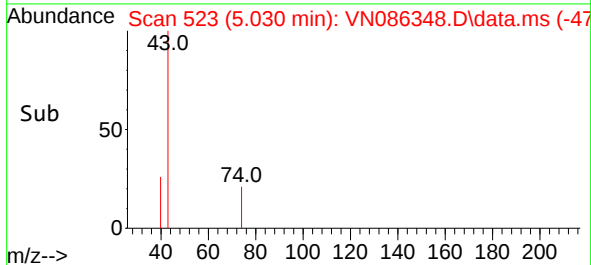
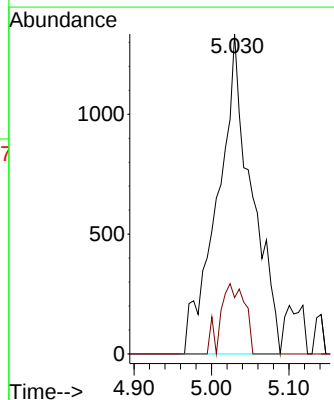
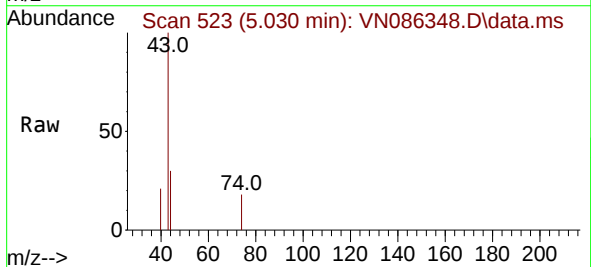
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#13

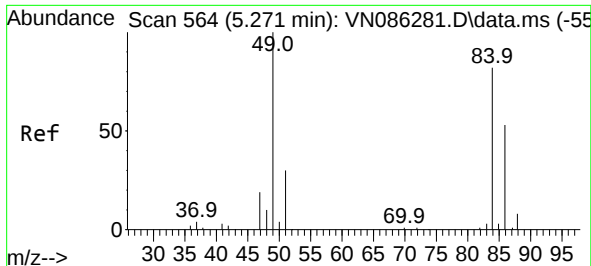
Tgt Ion: 43 Resp: 34209
Ion Ratio Lower Upper
43 100
58 29.2 25.3 37.9



#18
Methyl Acetate
Concen: 1.242 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN086348.D
Acq: 18 Apr 2025 16:55

Tgt Ion: 43 Resp: 4066
Ion Ratio Lower Upper
43 100
74 15.6 19.8 29.6#

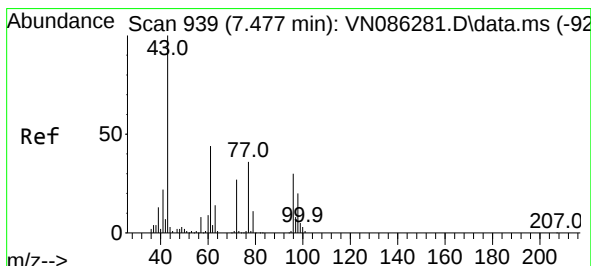
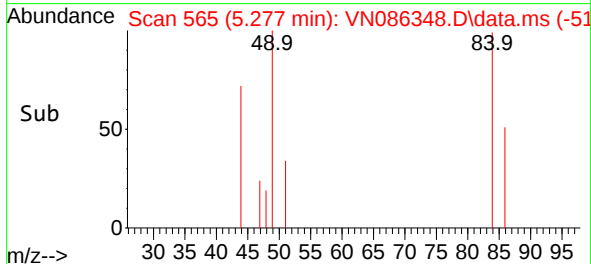
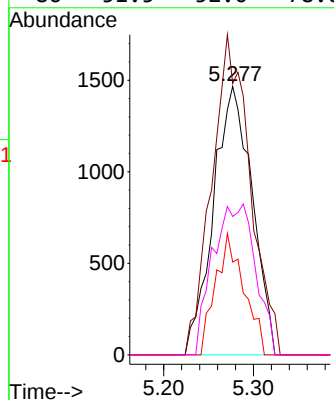
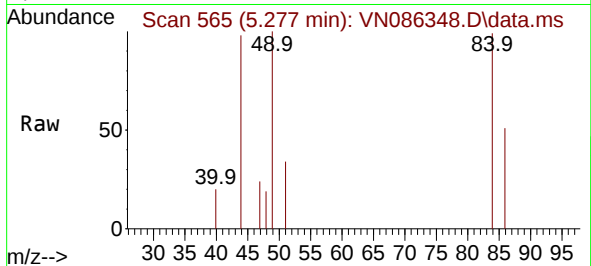




#20
Methylene Chloride
Concen: 1.744 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086348.D
Acq: 18 Apr 2025 16:55

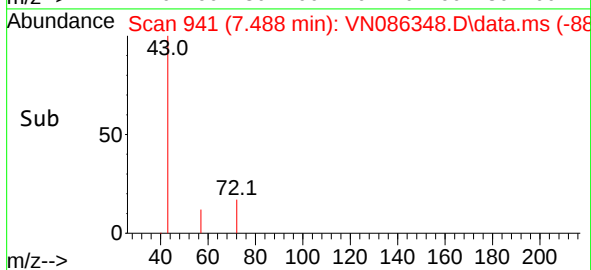
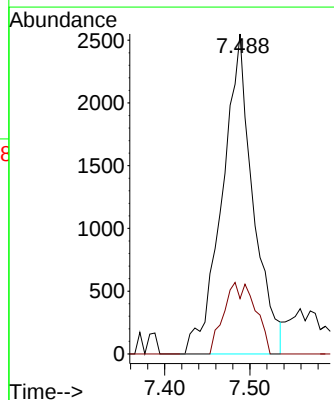
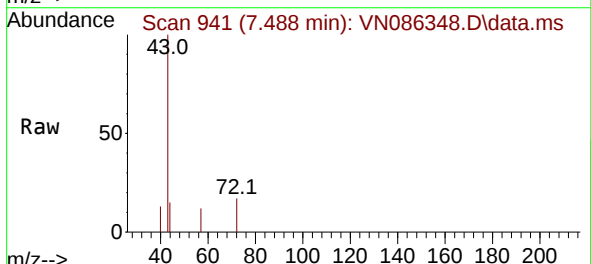
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#13

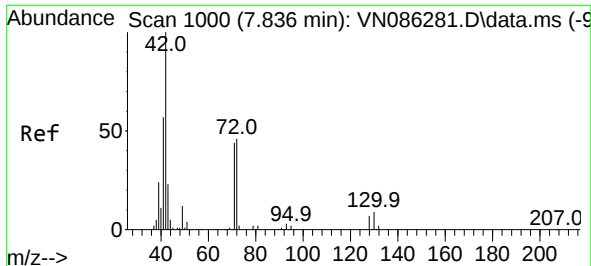
Tgt Ion: 84	Resp: 4395
Ion Ratio	Lower Upper
84 100	
49 101.1	98.2 147.2
51 34.6	29.8 44.6
86 51.5	52.0 78.0



#25
2-Butanone
Concen: 3.788 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086348.D
Acq: 18 Apr 2025 16:55

Tgt Ion: 43	Resp: 6429
Ion Ratio	Lower Upper
43 100	
72 17.3	21.7 32.5





#29

Tetrahydrofuran

Concen: 0.310 ug/l

RT: 7.853 min Scan# 1067

Delta R.T. 0.018 min

Lab File: VN086348.D

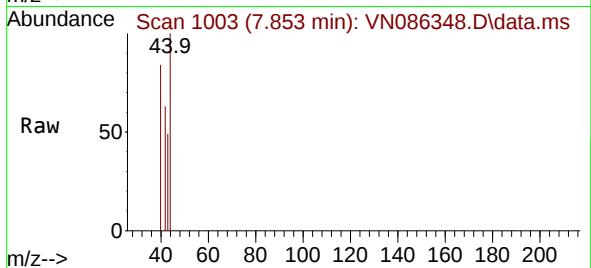
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Instrument :

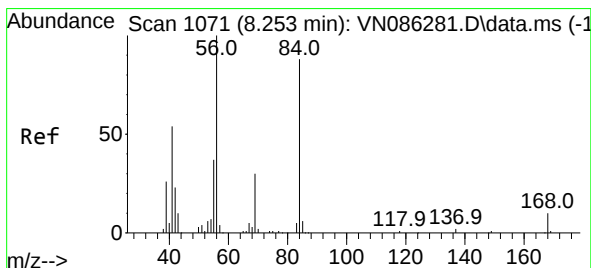
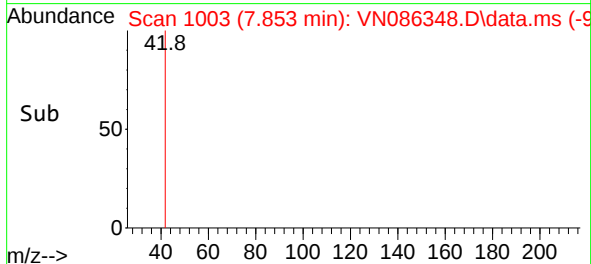
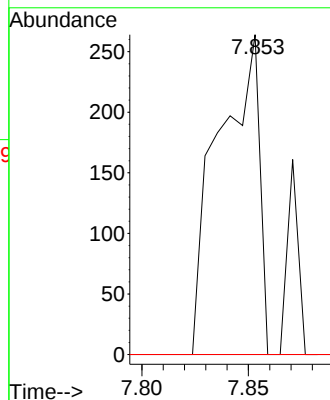
MSVOA_N

ClientSampleId :

PB167623ZHE#13



Tgt Ion:	42	Resp:	352
Ion	Ratio	Lower	Upper
42	100		
72	0.0	36.2	54.4#
71	0.0	34.0	51.0#



#31

Cyclohexane

Concen: 1.112 ug/l

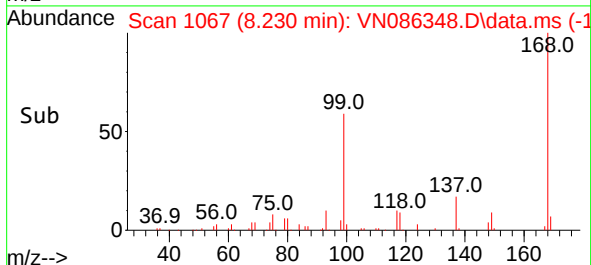
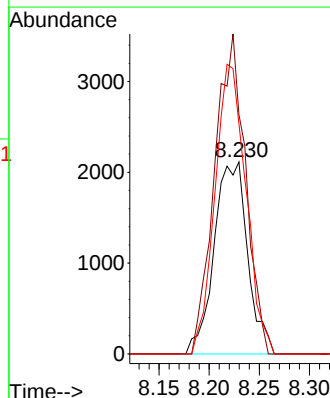
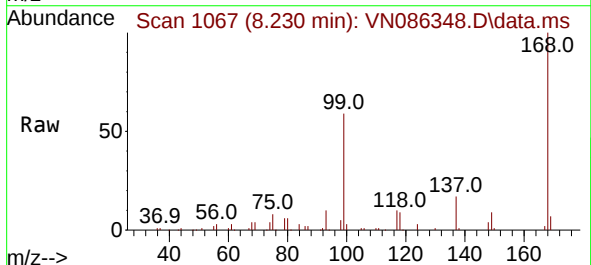
RT: 8.230 min Scan# 1067

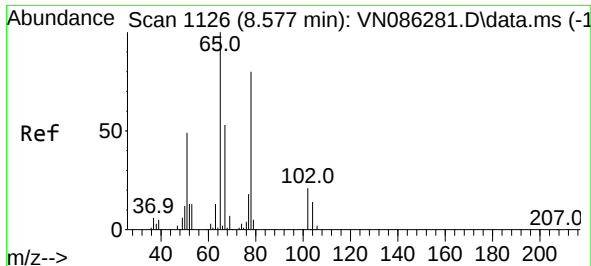
Delta R.T. -0.024 min

Lab File: VN086348.D

Acq: 18 Apr 2025 16:55

Tgt Ion:	56	Resp:	4912
Ion	Ratio	Lower	Upper
56	100		
69	124.8	24.2	36.2#
84	120.0	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 50.442 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086348.D

Acq: 18 Apr 2025 16:55

Instrument :

MSVOA_N

ClientSampleId :

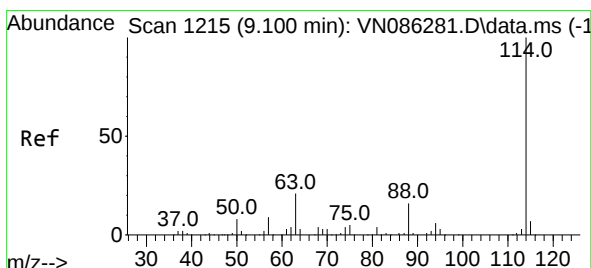
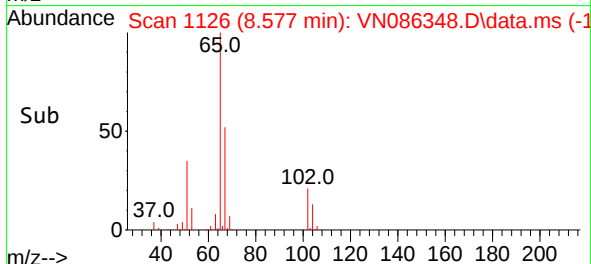
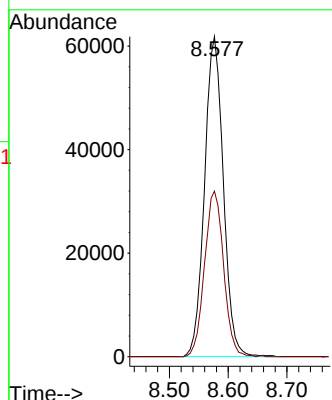
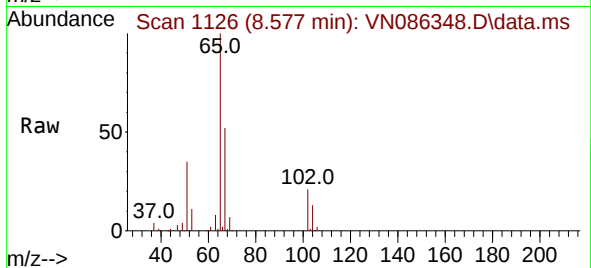
PB167623ZHE#13

Tgt Ion: 65 Resp: 137538

Ion Ratio Lower Upper

65 100

67 52.4 0.0 106.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086348.D

Acq: 18 Apr 2025 16:55

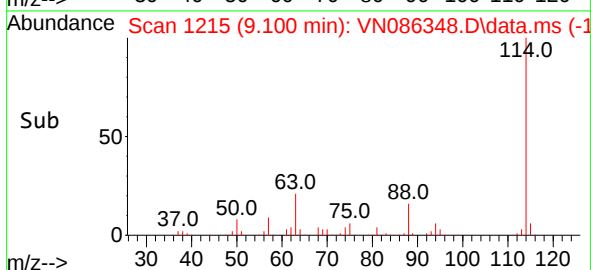
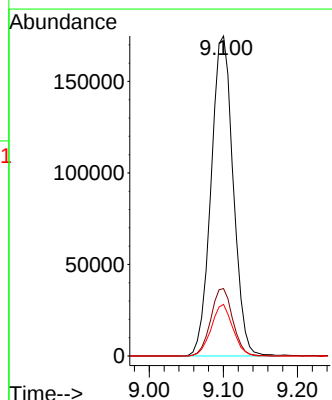
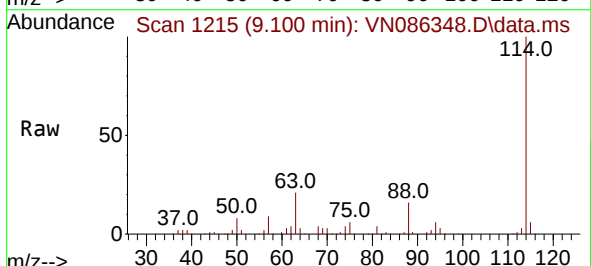
Tgt Ion: 114 Resp: 362239

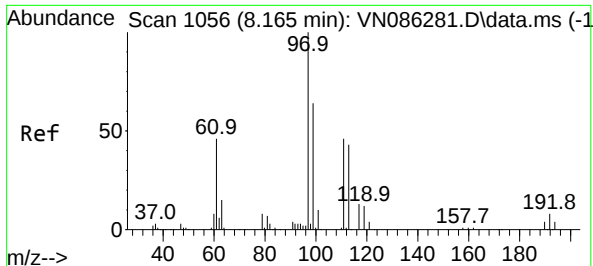
Ion Ratio Lower Upper

114 100

63 21.0 0.0 42.6

88 16.1 0.0 31.8





#35

Dibromofluoromethane

Concen: 53.219 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

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Acq: 18 Apr 2025 16:55

Instrument :

MSVOA_N

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PB167623ZHE#13

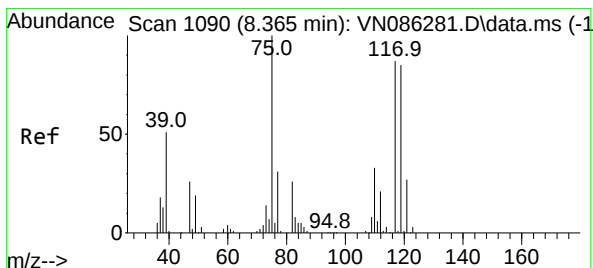
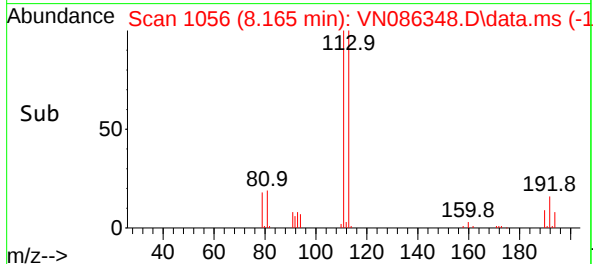
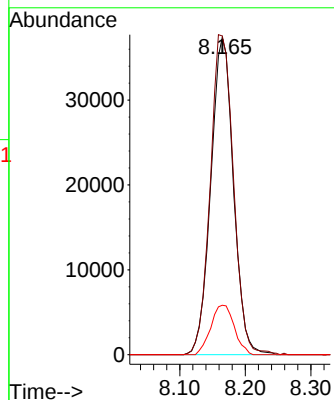
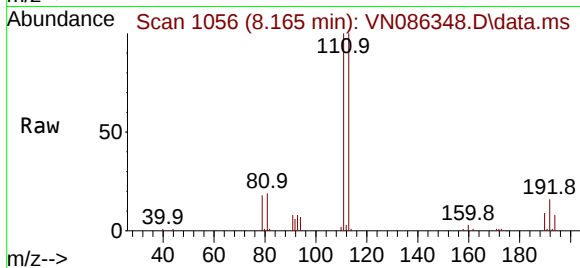
Tgt Ion:113 Resp: 89471

Ion Ratio Lower Upper

113 100

111 103.5 83.4 125.0

192 16.2 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.730 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086348.D

Acq: 18 Apr 2025 16:55

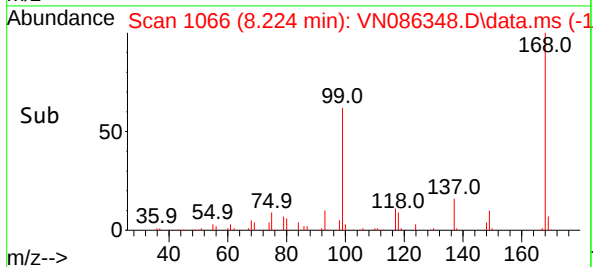
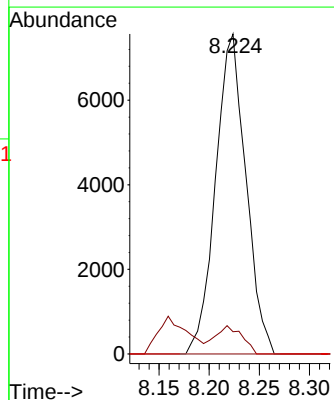
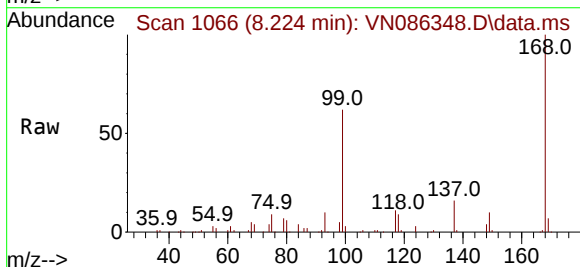
Tgt Ion: 75 Resp: 15884

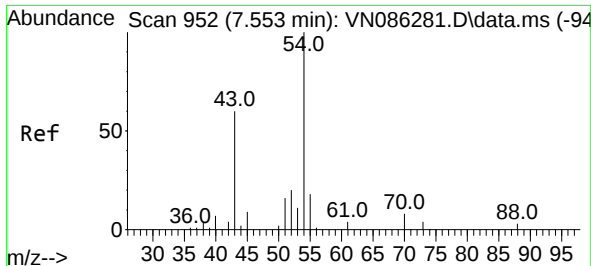
Ion Ratio Lower Upper

75 100

110 7.9 16.8 50.4#

77 0.0 24.9 37.3#





#37

Ethyl Acetate

Concen: 0.245 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN086348.D

Acq: 18 Apr 2025 16:55

Instrument :

MSVOA_N

ClientSampleId :

PB167623ZHE#13

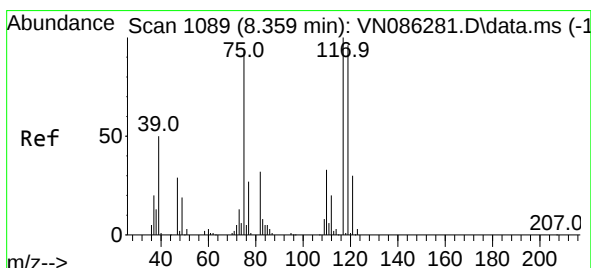
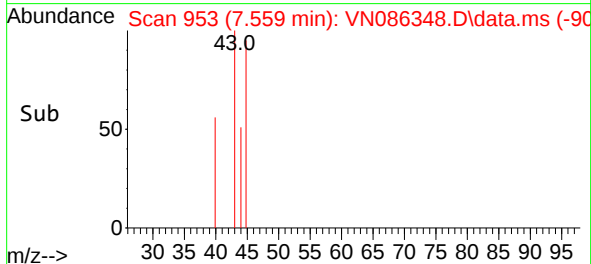
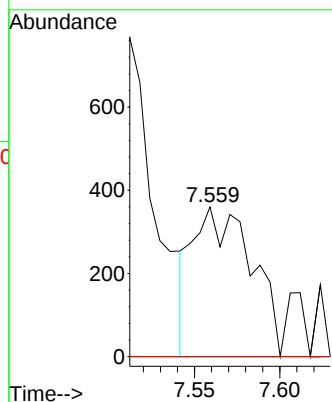
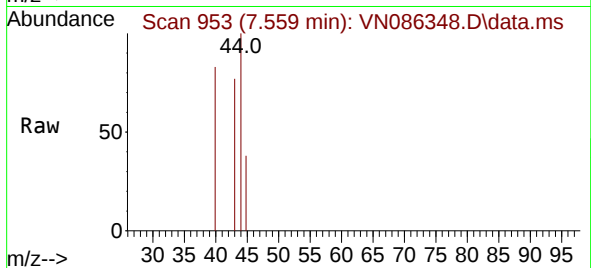
Tgt Ion: 43 Resp: 866

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 9.2 13.8#



#38

Carbon Tetrachloride

Concen: 6.197 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN086348.D

Acq: 18 Apr 2025 16:55

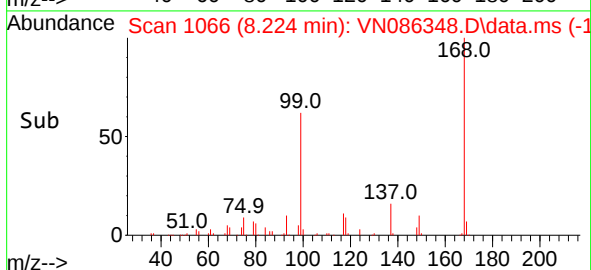
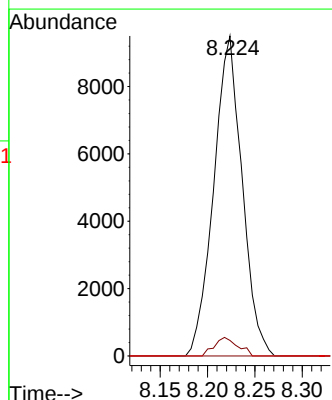
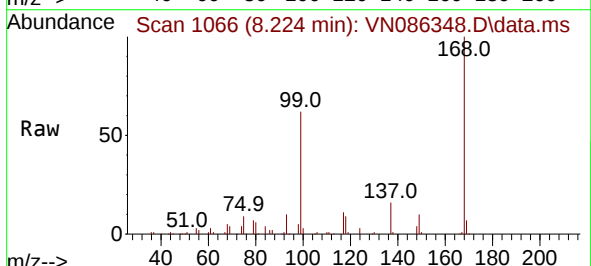
Tgt Ion: 117 Resp: 19817

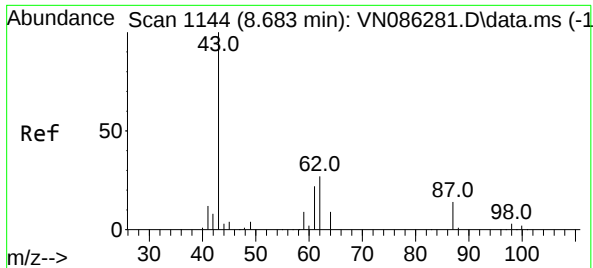
Ion Ratio Lower Upper

117 100

119 4.8 76.8 115.2#

121 0.0 23.8 35.8#

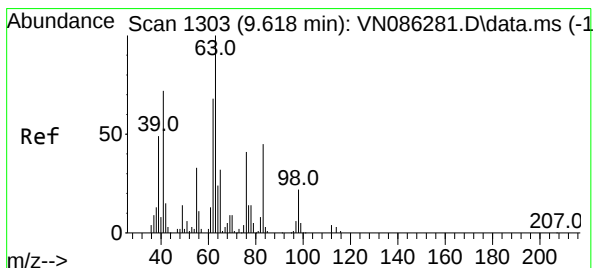
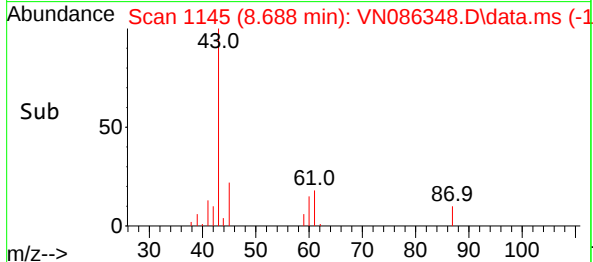
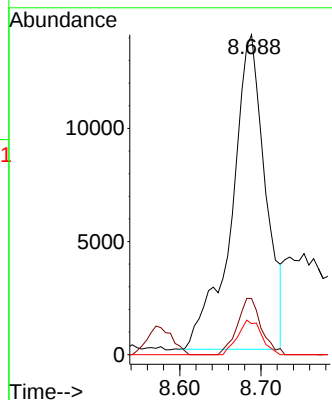
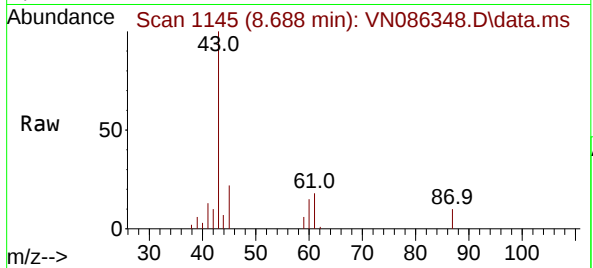




#43
Isopropyl Acetate
Concen: 4.561 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN086348.D
Acq: 18 Apr 2025 16:55

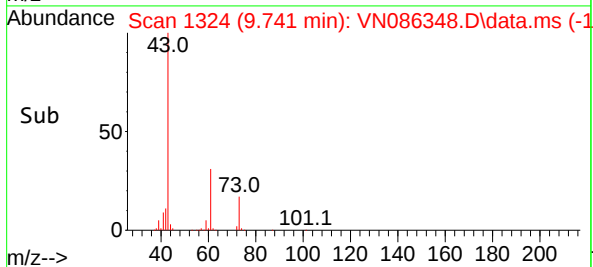
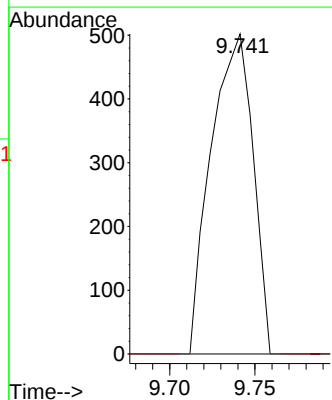
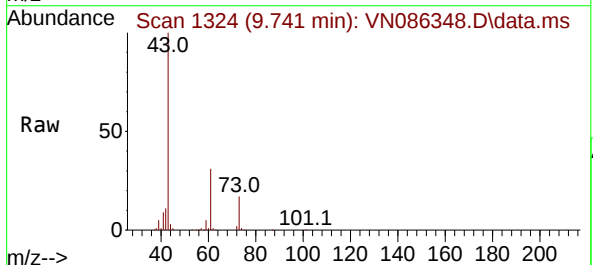
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#13

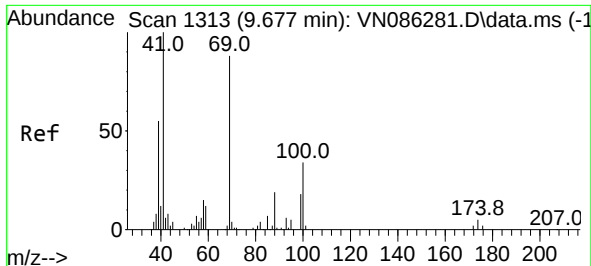
Tgt Ion: 43 Resp: 40251
Ion Ratio Lower Upper
43 100
61 12.7 20.5 30.7#
87 7.7 10.5 15.7#



#45
1,2-Dichloropropane
Concen: 0.326 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.123 min
Lab File: VN086348.D
Acq: 18 Apr 2025 16:55

Tgt Ion: 63 Resp: 859
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.2#

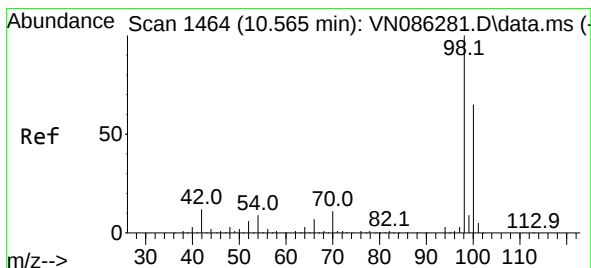
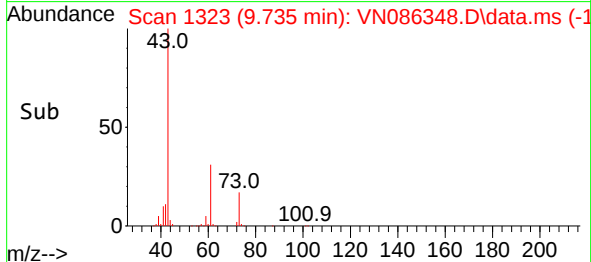
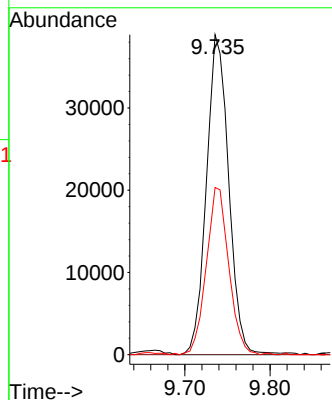
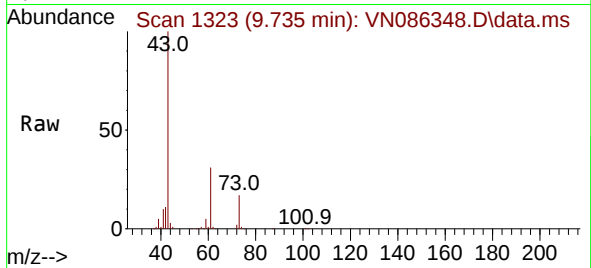




#48
Methyl methacrylate
Concen: 22.695 ug/l
RT: 9.735 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN086348.D
Acq: 18 Apr 2025 16:55

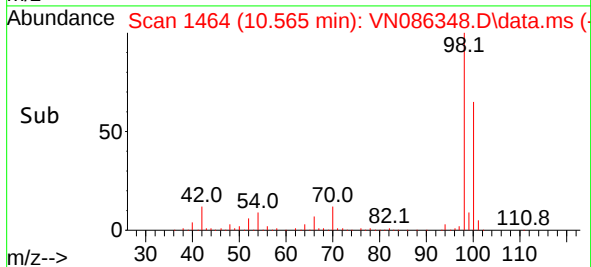
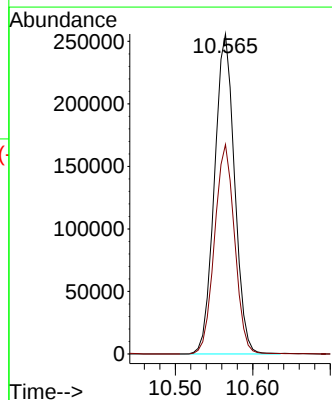
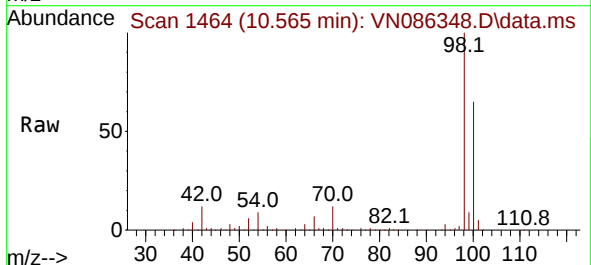
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#13

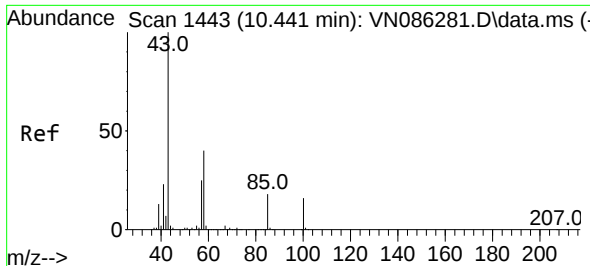
Tgt Ion: 41 Resp: 70457
Ion Ratio Lower Upper
41 100
69 0.0 68.2 102.2#
39 52.8 45.2 67.8



#50
Toluene-d8
Concen: 51.247 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086348.D
Acq: 18 Apr 2025 16:55

Tgt Ion: 98 Resp: 460459
Ion Ratio Lower Upper
98 100
100 65.5 52.5 78.7

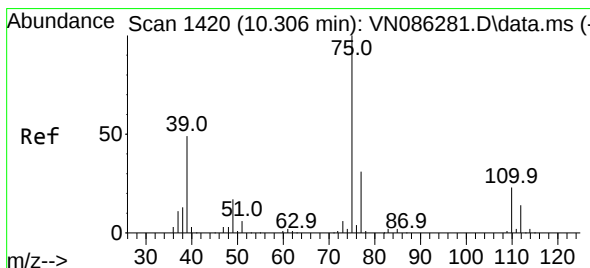
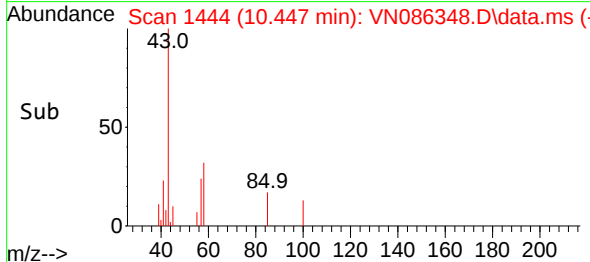
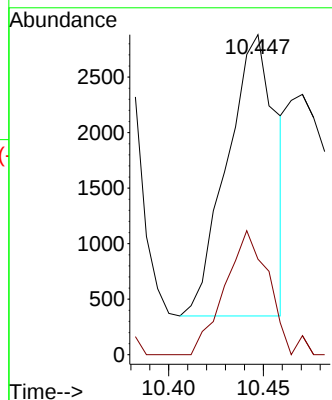
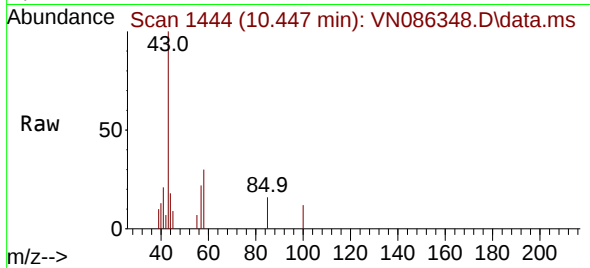




#51
4-Methyl-2-Pentanone
Concen: 1.260 ug/l
RT: 10.447 min Scan# 1443
Delta R.T. 0.006 min
Lab File: VN086348.D
Acq: 18 Apr 2025 16:55

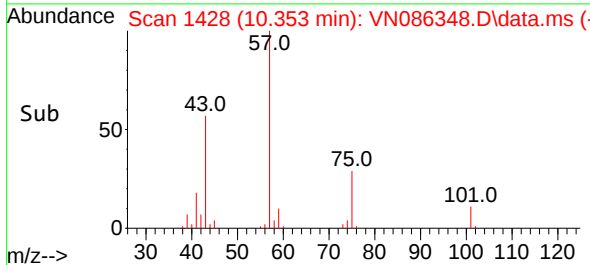
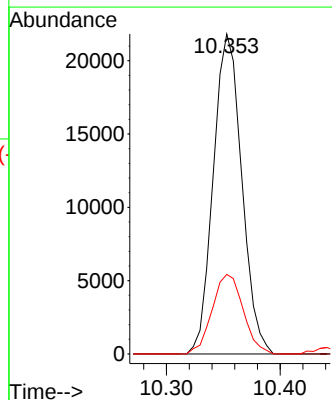
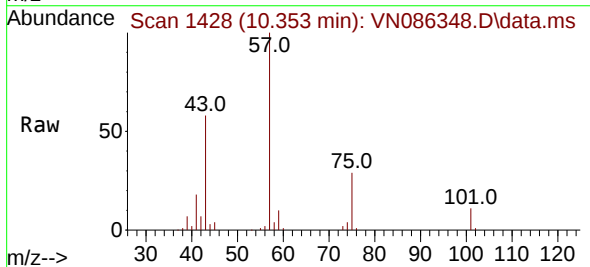
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#13

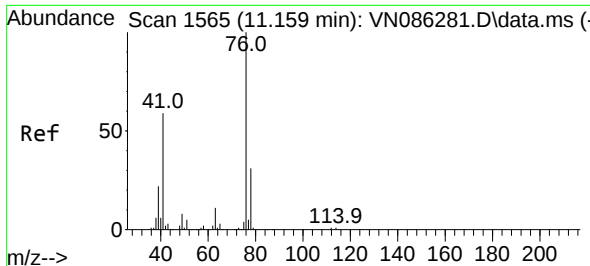
Tgt Ion: 43 Resp: 4561
Ion Ratio Lower Upper
43 100
58 40.0 32.2 48.4



#54
cis-1,3-Dichloropropene
Concen: 8.547 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN086348.D
Acq: 18 Apr 2025 16:55

Tgt Ion: 75 Resp: 37979
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#
39 24.8 39.3 58.9#





#57

1,3-Dichloropropane

Concen: 0.841 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086348.D

Acq: 18 Apr 2025 16:55

Instrument :

MSVOA_N

ClientSampleId :

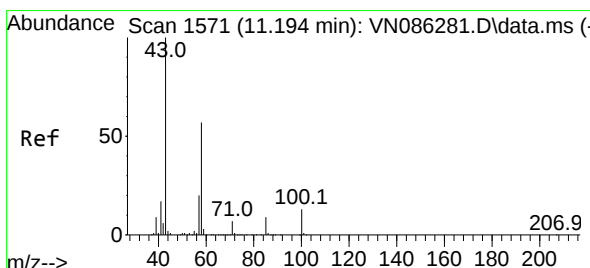
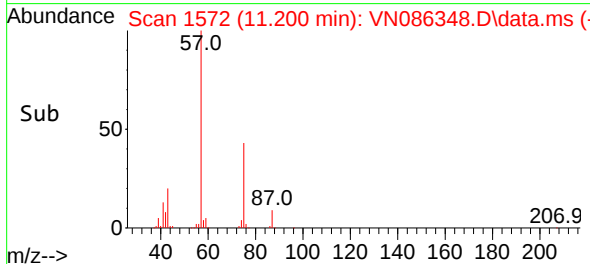
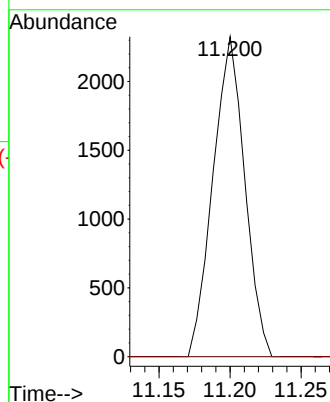
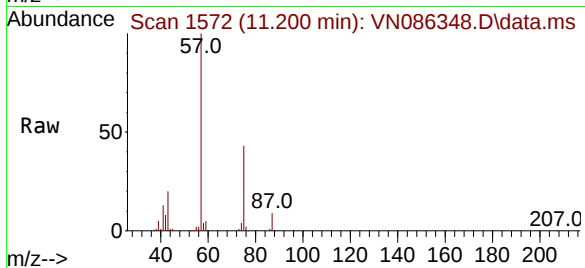
PB167623ZHE#13

Tgt Ion: 76 Resp: 3605

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 25.492 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086348.D

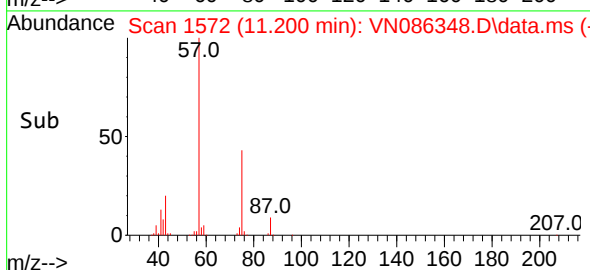
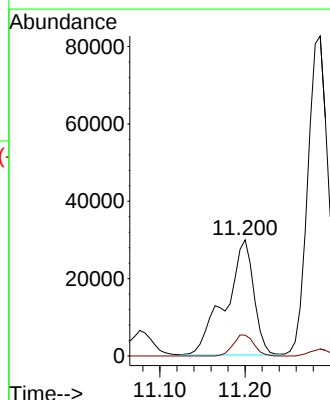
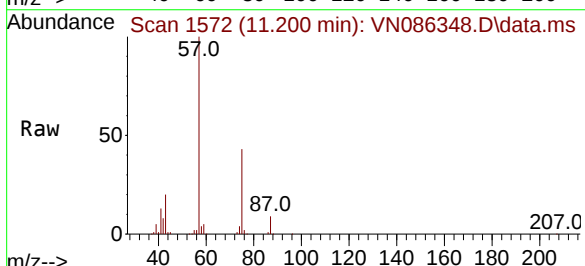
Acq: 18 Apr 2025 16:55

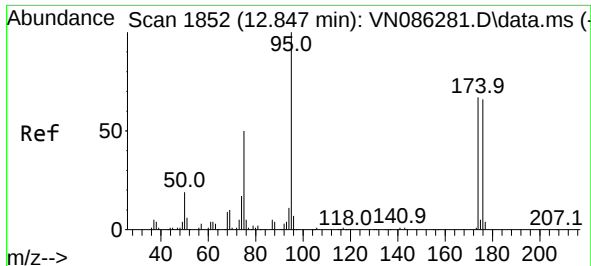
Tgt Ion: 43 Resp: 68450

Ion Ratio Lower Upper

43 100

58 13.5 28.3 85.0#

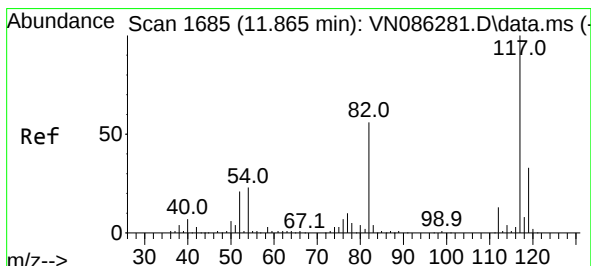
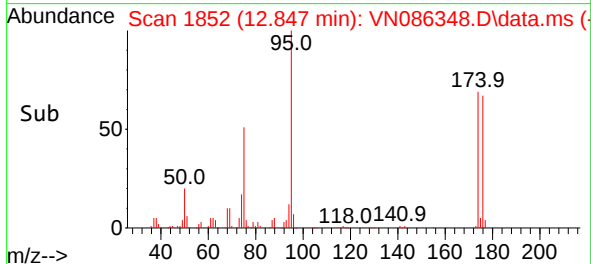
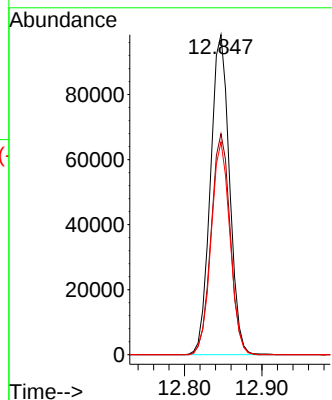
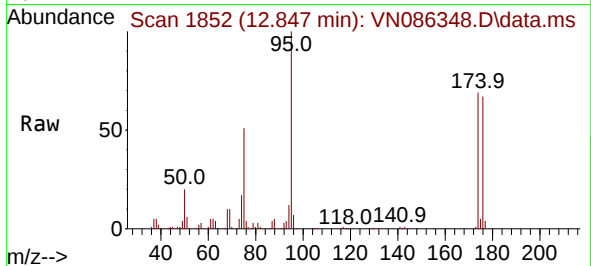




#62
4-Bromofluorobenzene
Concen: 51.182 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086348.D
Acq: 18 Apr 2025 16:55

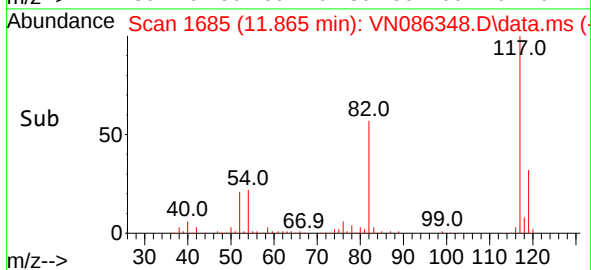
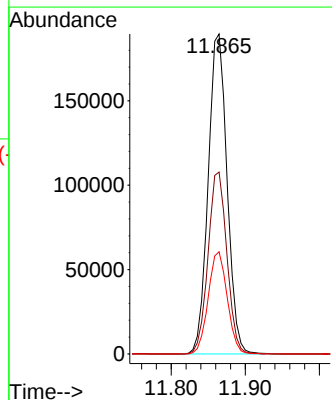
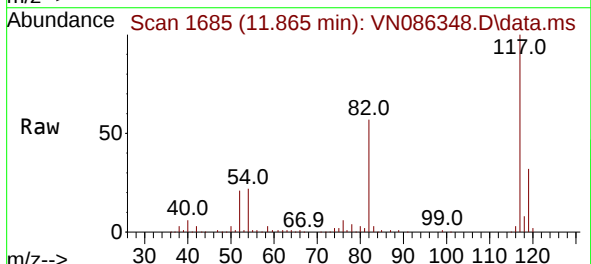
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#13

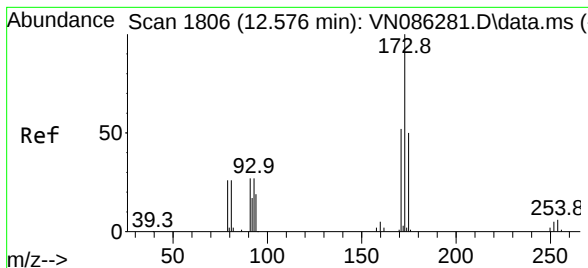
Tgt Ion: 95 Resp: 167736
Ion Ratio Lower Upper
95 100
174 69.2 0.0 133.4
176 65.8 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086348.D
Acq: 18 Apr 2025 16:55

Tgt Ion: 117 Resp: 335998
Ion Ratio Lower Upper
117 100
82 56.8 44.7 67.1
119 32.0 26.4 39.6





#71

Bromoform

Concen: 0.408 ug/l

RT: 12.847 min Scan# 1806

Delta R.T. 0.271 min

Lab File: VN086348.D

Acq: 18 Apr 2025 16:55

Instrument :

MSVOA_N

ClientSampleId :

PB167623ZHE#13

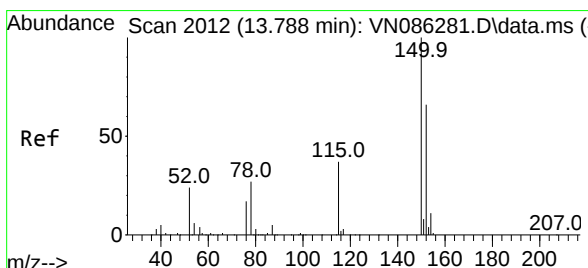
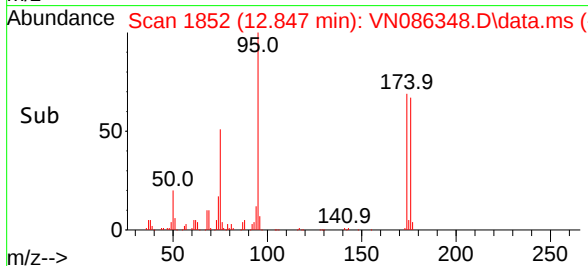
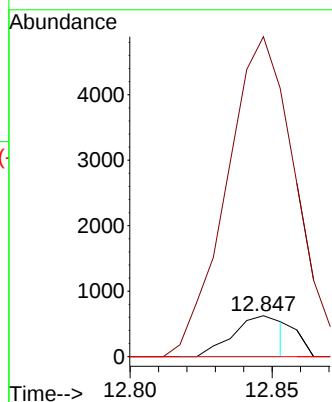
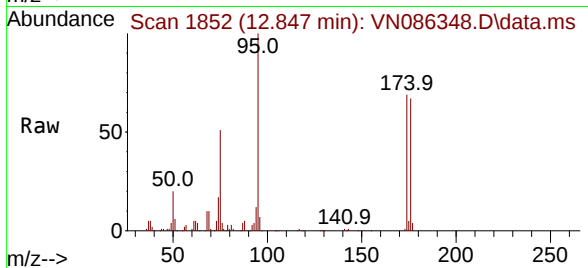
Tgt Ion:173 Resp: 759

Ion Ratio Lower Upper

173 100

175 876.7 24.6 73.6#

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: VN086348.D

Acq: 18 Apr 2025 16:55

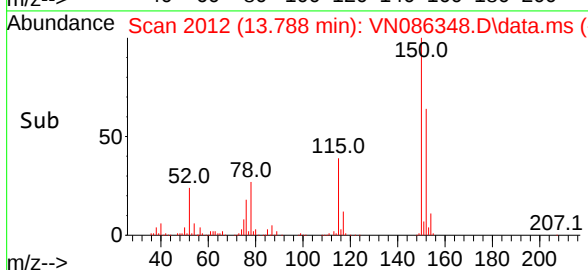
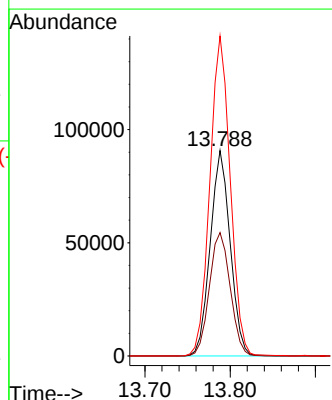
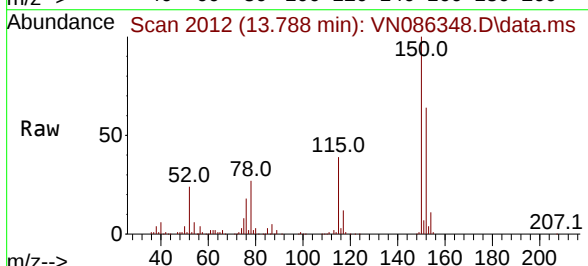
Tgt Ion:152 Resp: 147603

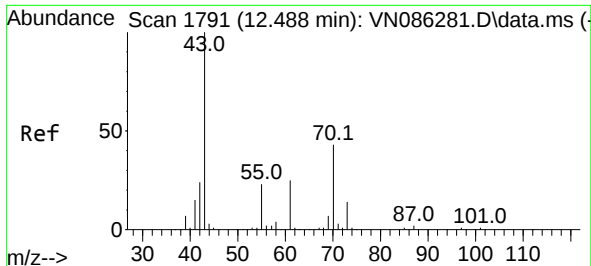
Ion Ratio Lower Upper

152 100

115 62.7 31.9 95.9

150 158.8 0.0 352.0

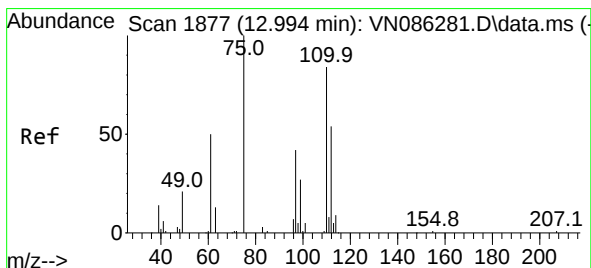
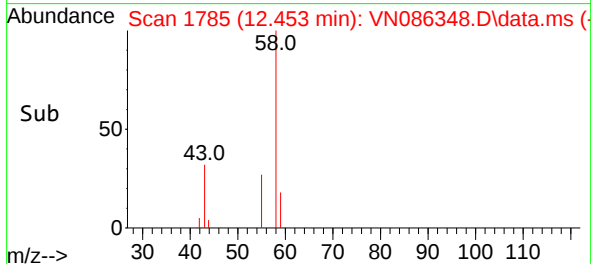
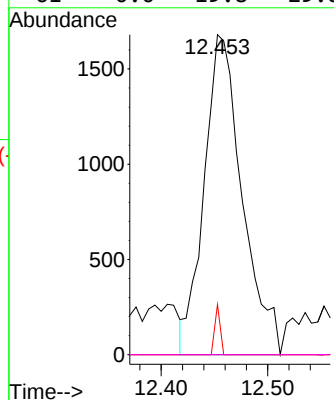
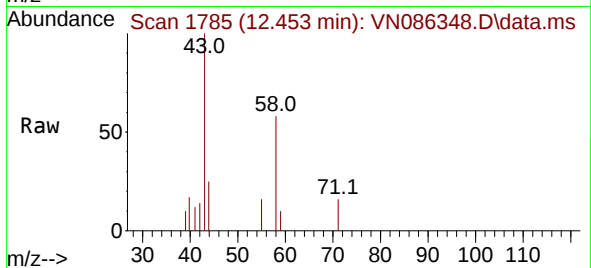




#74
N-amy1 acetate
Concen: 0.692 ug/l
RT: 12.453 min Scan# 1
Delta R.T. -0.035 min
Lab File: VN086348.D
Acq: 18 Apr 2025 16:55

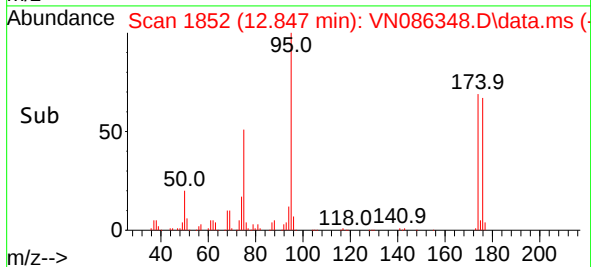
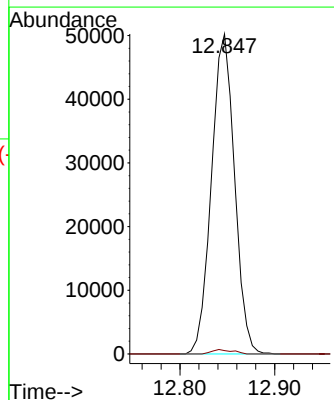
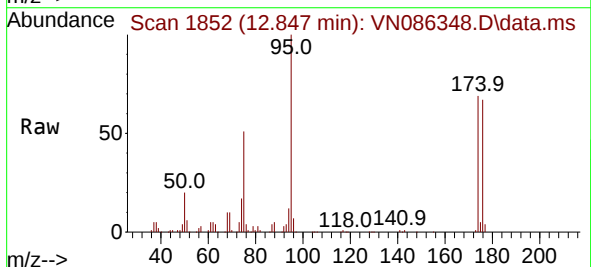
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#13

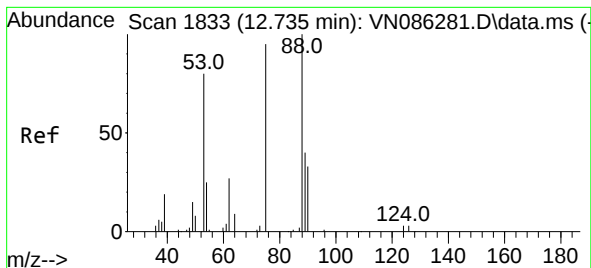
Tgt Ion: 43	Resp: 4160
Ion Ratio	Lower Upper
43 100	
70 0.0	35.0 52.4#
55 2.2	19.0 28.4#
61 0.0	19.8 29.8#



#76
1,2,3-Trichloropropane
Concen: 24.392 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086348.D
Acq: 18 Apr 2025 16:55

Tgt Ion: 75	Resp:	84963	
Ion Ratio	Lower	Upper	
75 100			
77 1.2	98.8	296.4#	

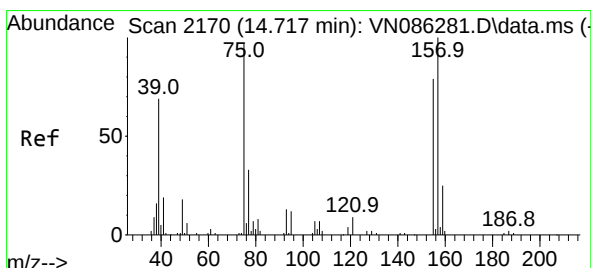
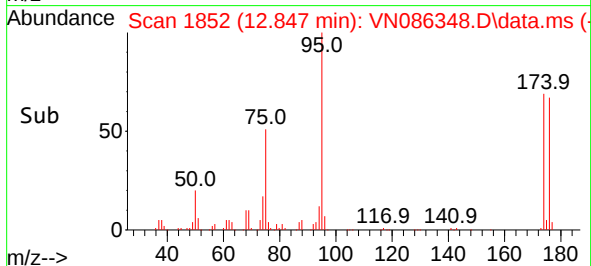
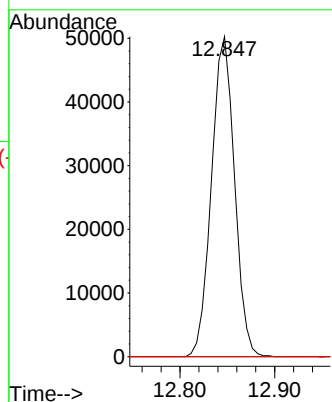
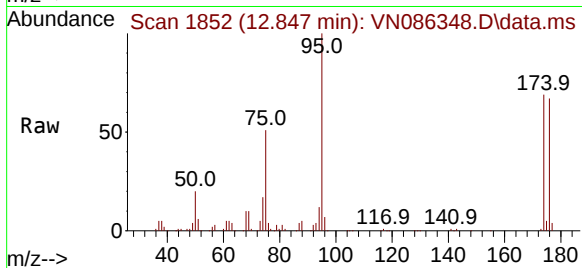




#81
trans-1,4-Dichloro-2-butene
Concen: 58.581 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN086348.D
Acq: 18 Apr 2025 16:55

Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#13

Tgt Ion: 75 Resp: 84963
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.674 ug/l
RT: 14.694 min Scan# 2166
Delta R.T. -0.024 min
Lab File: VN086348.D
Acq: 18 Apr 2025 16:55

Tgt Ion: 75 Resp: 472
Ion Ratio Lower Upper
75 100
155 0.0 40.3 120.9#
157 0.0 49.0 147.2#

