

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032125\
 Data File : VN086053.D
 Acq On : 21 Mar 2025 20:30
 Operator : JC\MD
 Sample : PB167234ZHE#13
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167234ZHE#13

Quant Time: Mar 21 23:04:57 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)

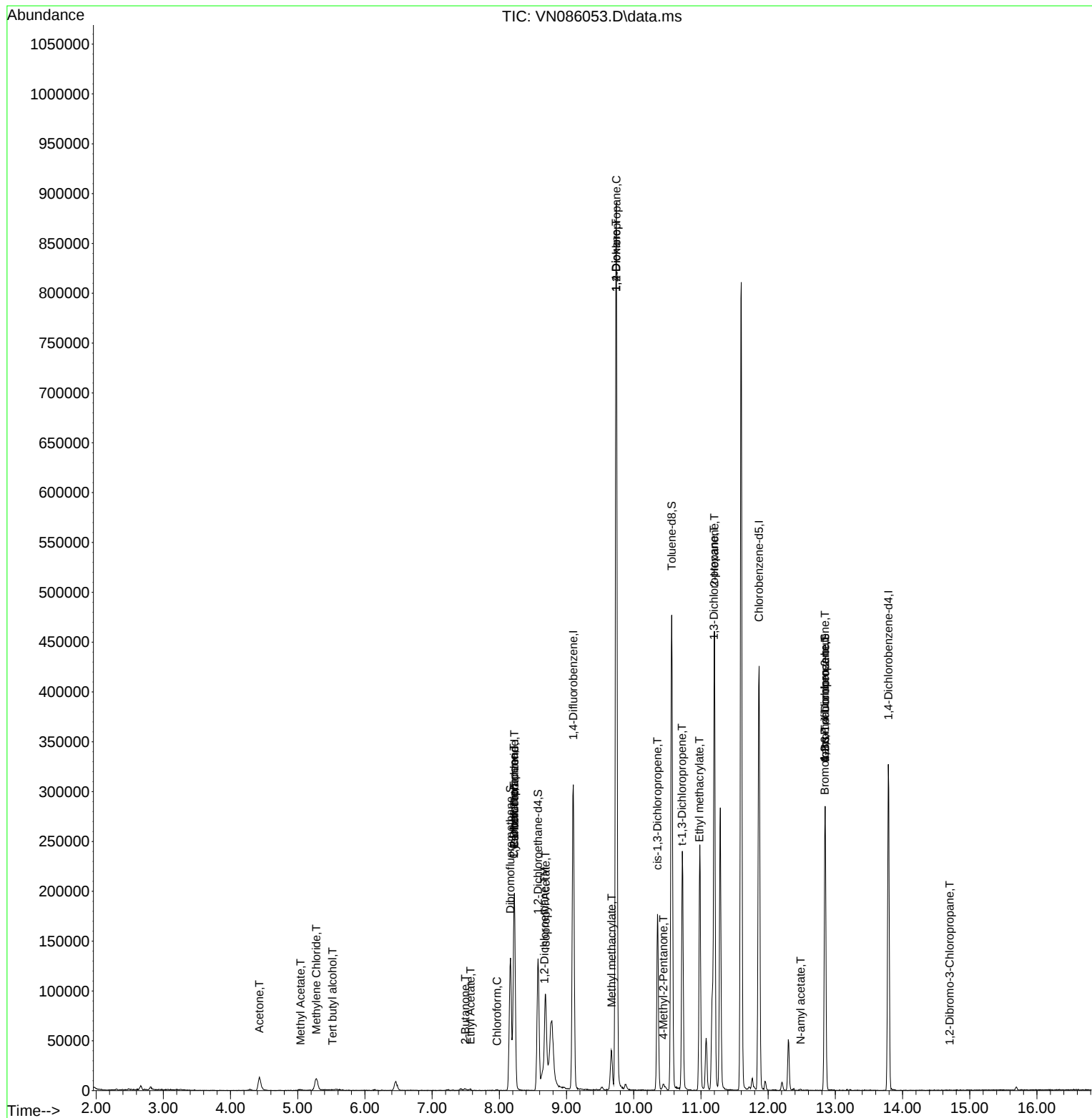
Internal Standards						
1) Pentafluorobenzene	8.224	168	142056	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	271980	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	254743	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	90983	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	110134	56.617	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 113.240%			
35) Dibromofluoromethane	8.165	113	93717	49.367	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.740%			
50) Toluene-d8	10.565	98	344197	49.957	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.920%			
62) 4-Bromofluorobenzene	12.847	95	99813	40.622	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 81.240%			
Target Compounds						Qvalue
11) Tert butyl alcohol	5.518	59	120	0.436	ug/l #	73
16) Acetone	4.430	43	24396	41.051	ug/l	100
18) Methyl Acetate	5.042	43	2058	1.400	ug/l #	51
20) Methylene Chloride	5.277	84	9626	5.537	ug/l	97
25) 2-Butanone	7.494	43	3046	3.552	ug/l	95
30) Chloroform	7.965	83	944	0.300	ug/l #	18
31) Cyclohexane	8.218	56	2968	1.225	ug/l #	18
36) 1,1-Dichloropropene	8.218	75	11096	4.439	ug/l #	51
37) Ethyl Acetate	7.571	43	1896	0.899	ug/l #	72
38) Carbon Tetrachloride	8.224	117	15171	4.616	ug/l #	17
42) 1,2-Dichloroethane	8.671	62	743	0.272	ug/l #	74
43) Isopropyl Acetate	8.688	43	120540	26.378	ug/l #	78
45) 1,2-Dichloropropane	9.741	63	1190	0.667	ug/l #	44
48) Methyl methacrylate	9.671	41	2435	1.615	ug/l #	7
49) 1,4-Dioxane	9.735	88	61	1.711	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	7536	3.739	ug/l #	65
53) t-1,3-Dichloropropene	10.718	75	673	0.236	ug/l #	1
54) cis-1,3-Dichloropropene	10.353	75	33353	11.096	ug/l #	69
56) Ethyl methacrylate	10.977	69	1651	0.899	ug/l #	1
57) 1,3-Dichloropropane	11.194	76	4936	1.581	ug/l #	42
59) 2-Hexanone	11.200	43	55540	37.829	ug/l #	49
71) Bromoform	12.841	173	464	0.256	ug/l #	1
74) N-amyl acetate	12.482	43	872	0.419	ug/l #	38
76) 1,2,3-Trichloropropane	12.847	75	50228	24.659	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	50228	65.193	ug/l #	16
92) 1,2-Dibromo-3-Chloropr...	14.700	75	102	0.243	ug/l #	2

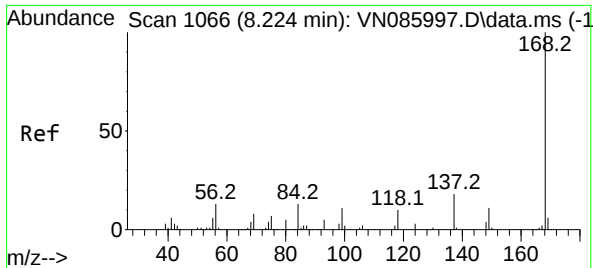
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032125\
Data File : VN086053.D
Acq On : 21 Mar 2025 20:30
Operator : JC\MD
Sample : PB167234ZHE#13
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#13

Quant Time: Mar 21 23:04:57 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

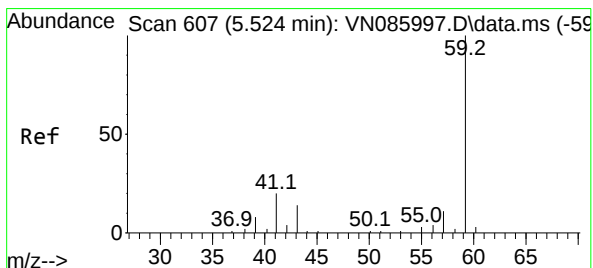
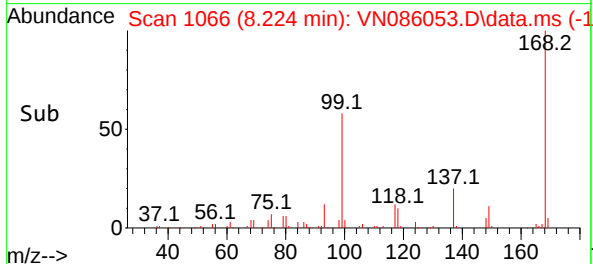
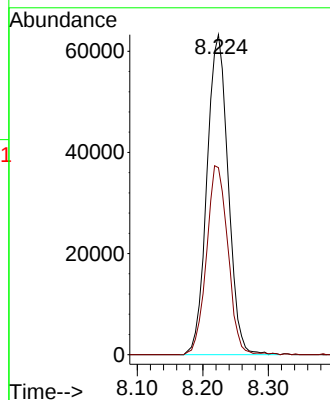
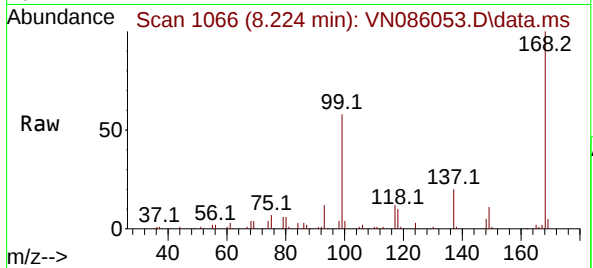




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086053.D
Acq: 21 Mar 2025 20:30

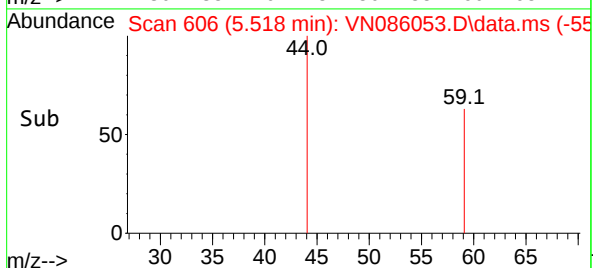
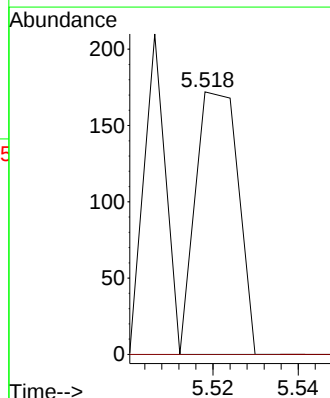
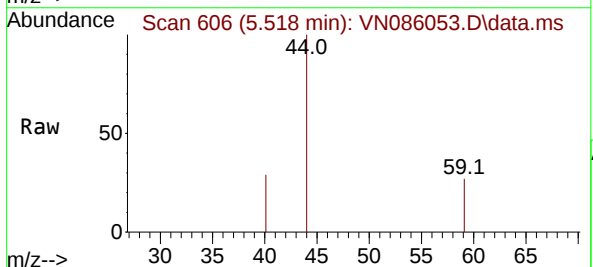
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#13

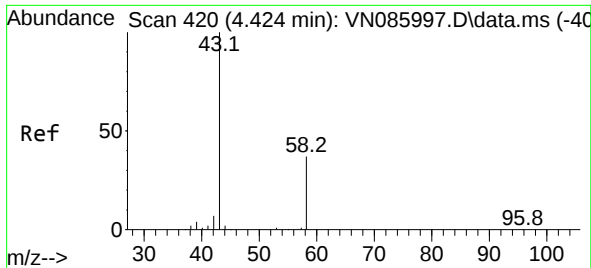
Tgt Ion:168 Resp: 142056
Ion Ratio Lower Upper
168 100
99 58.5 49.4 74.2



#11
Tert butyl alcohol
Concen: 0.436 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.006 min
Lab File: VN086053.D
Acq: 21 Mar 2025 20:30

Tgt Ion: 59 Resp: 120
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#

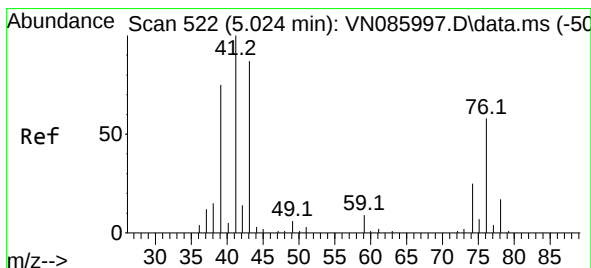
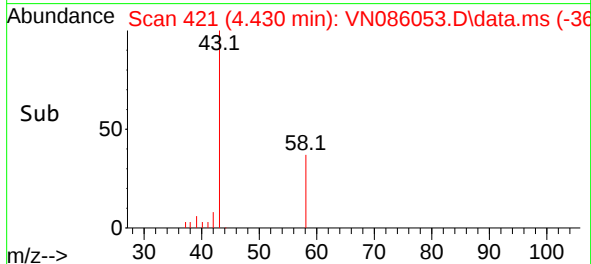
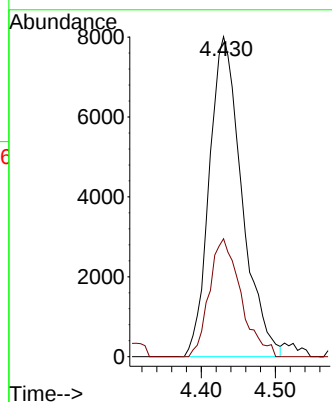
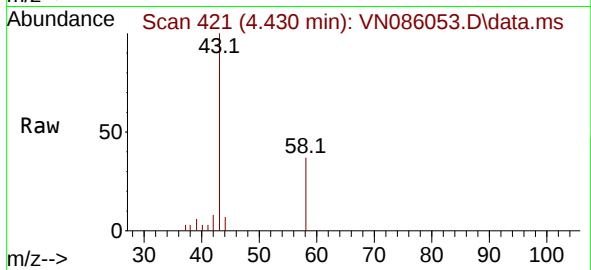




#16
Acetone
Concen: 41.051 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086053.D
Acq: 21 Mar 2025 20:30

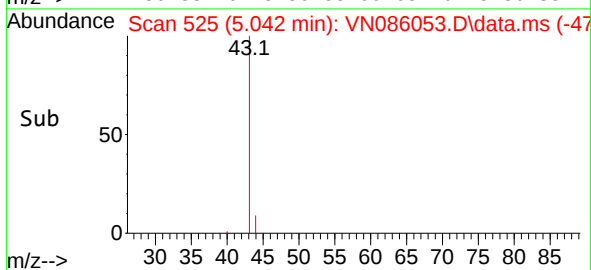
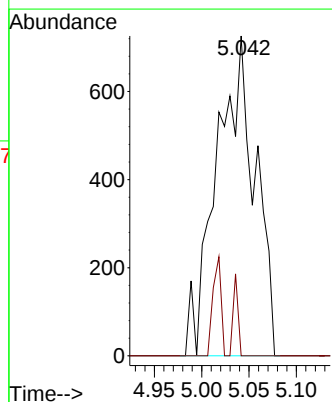
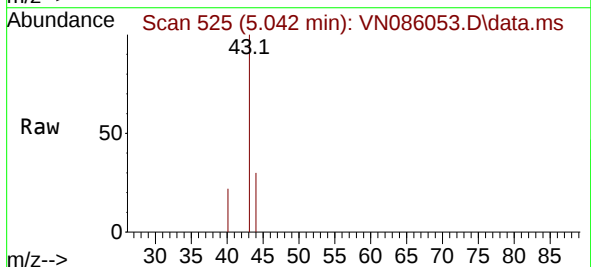
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#13

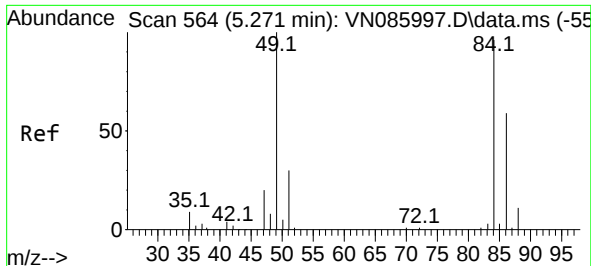
Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.9	29.4	44.2



#18
Methyl Acetate
Concen: 1.400 ug/l
RT: 5.042 min Scan# 525
Delta R.T. 0.018 min
Lab File: VN086053.D
Acq: 21 Mar 2025 20:30

Tgt Ion	Ratio	Lower	Upper
43	100		
74	3.2	23.9	35.9#

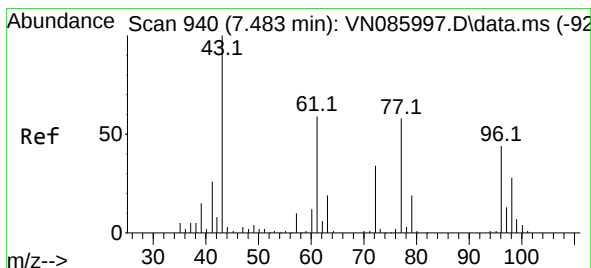
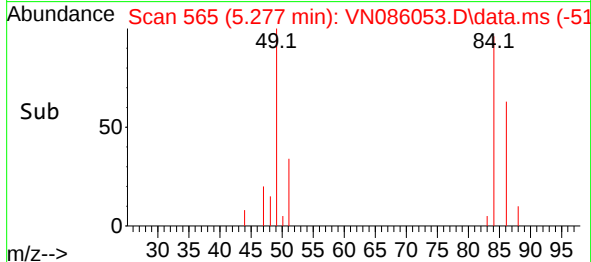
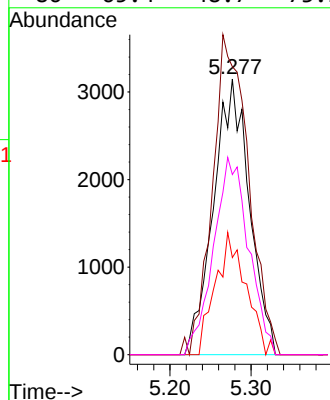
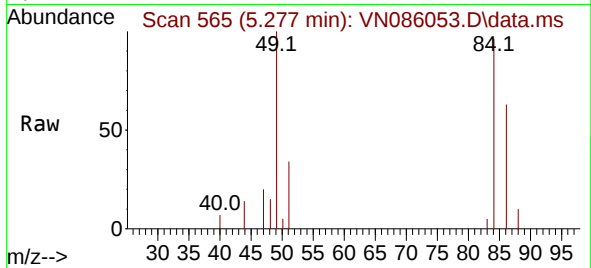




#20
Methylene Chloride
Concen: 5.537 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086053.D
Acq: 21 Mar 2025 20:30

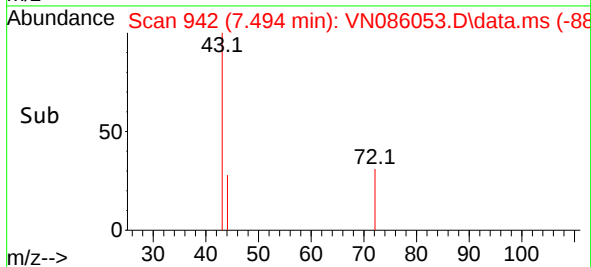
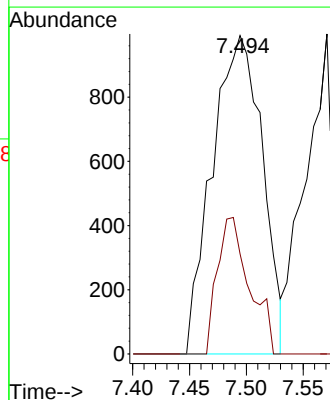
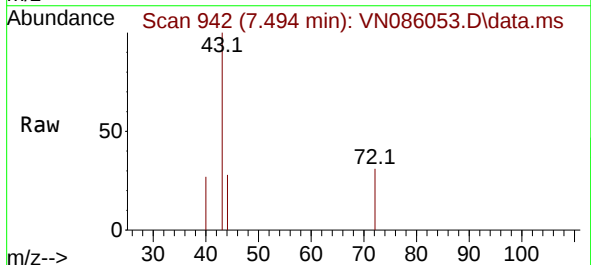
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#13

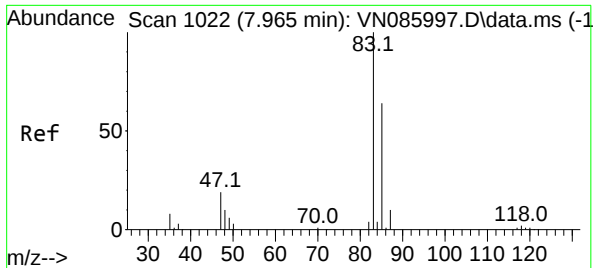
Tgt Ion: 84	Resp: 9626
Ion Ratio	Lower Upper
84 100	
49 104.5	83.3 124.9
51 35.3	24.8 37.2
86 65.4	48.7 73.1



#25
2-Butanone
Concen: 3.552 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.012 min
Lab File: VN086053.D
Acq: 21 Mar 2025 20:30

Tgt Ion: 43	Resp: 3046		
Ion Ratio	Lower	Upper	
43 100			
72 31.5	27.4	41.0	





#30

Chloroform

Concen: 0.300 ug/l

RT: 7.965 min Scan# 1065

Delta R.T. -0.000 min

Lab File: VN086053.D

Acq: 21 Mar 2025 20:30

Instrument :

MSVOA_N

ClientSampleId :

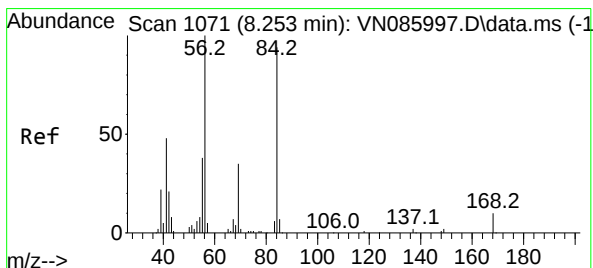
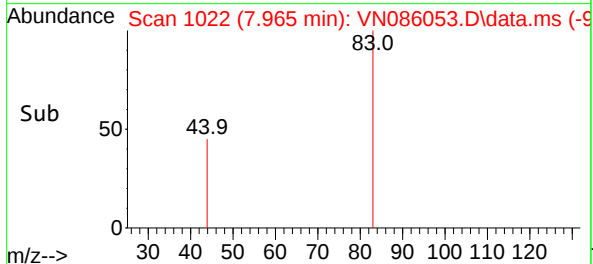
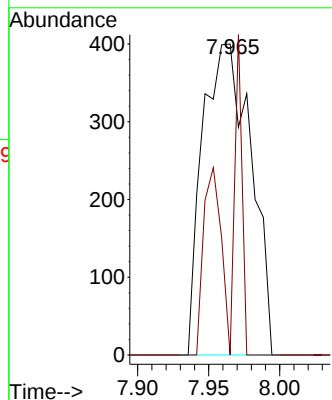
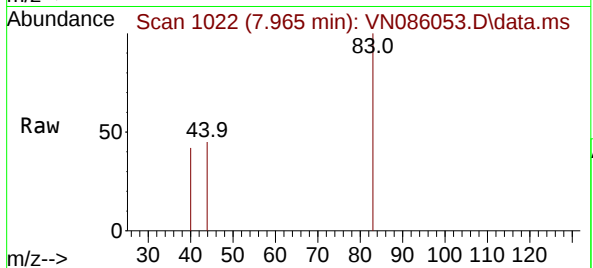
PB167234ZHE#13

Tgt Ion: 83 Resp: 944

Ion Ratio Lower Upper

83 100

85 0.0 51.5 77.3#



#31

Cyclohexane

Concen: 1.225 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.035 min

Lab File: VN086053.D

Acq: 21 Mar 2025 20:30

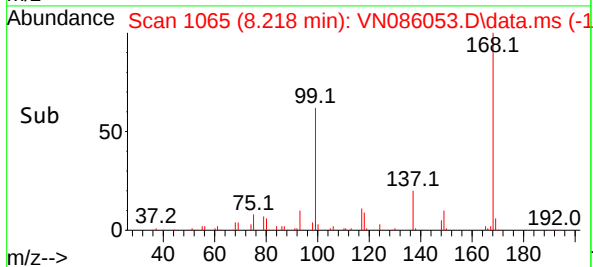
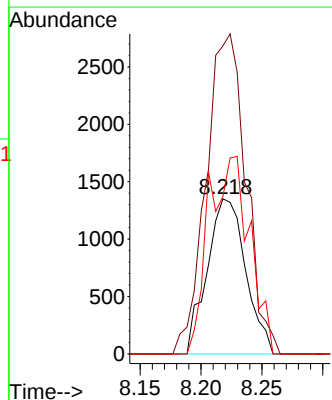
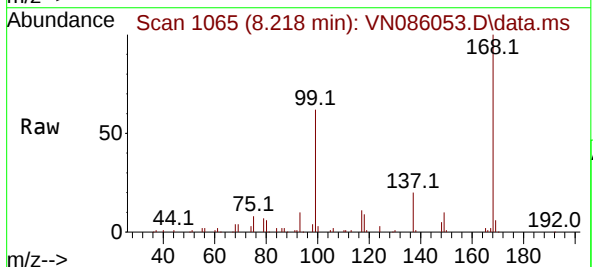
Tgt Ion: 56 Resp: 2968

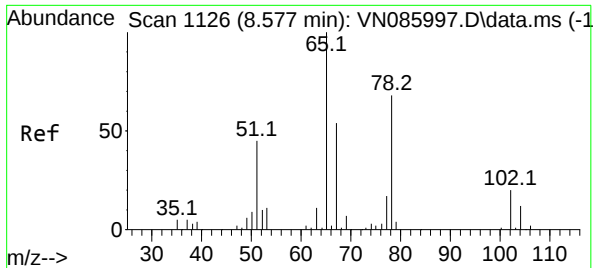
Ion Ratio Lower Upper

56 100

69 198.7 28.0 42.0#

84 101.5 75.0 112.6

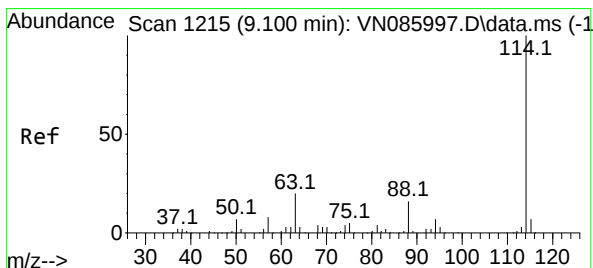
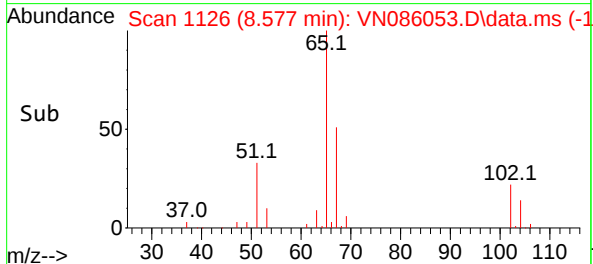
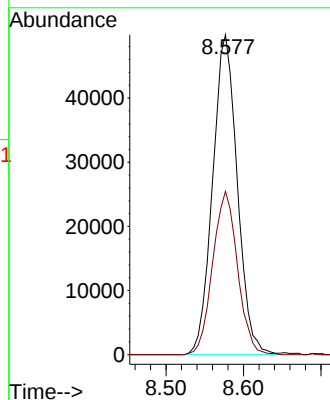
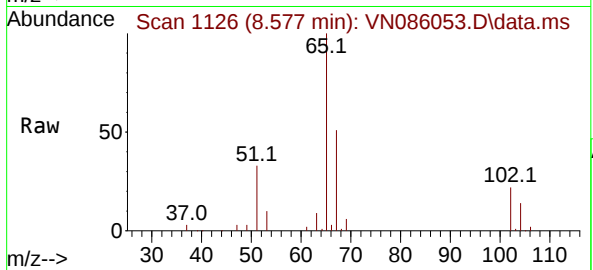




#33
 1,2-Dichloroethane-d4
 Concen: 56.617 ug/l
 RT: 8.577 min Scan# 1126
 Delta R.T. -0.000 min
 Lab File: VN086053.D
 Acq: 21 Mar 2025 20:30

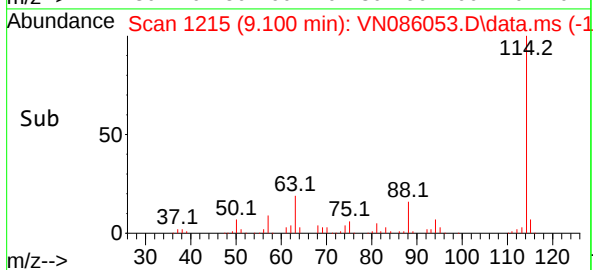
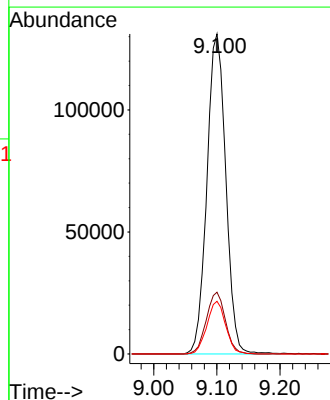
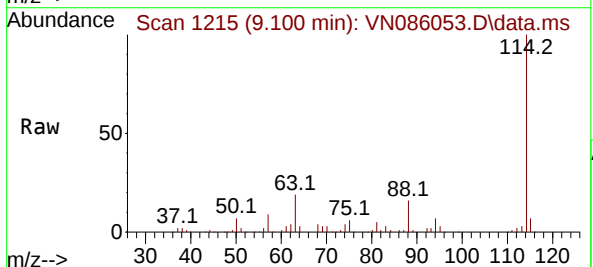
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167234ZHE#13

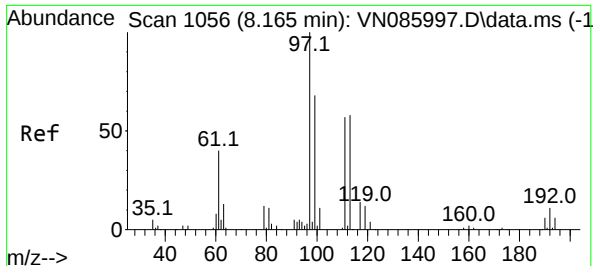
Tgt Ion: 65 Resp: 110134
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 102.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. -0.000 min
 Lab File: VN086053.D
 Acq: 21 Mar 2025 20:30

Tgt Ion: 114 Resp: 271980
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 39.6
 88 16.5 0.0 32.6





#35

Dibromofluoromethane

Concen: 49.367 ug/l

RT: 8.165 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086053.D

Acq: 21 Mar 2025 20:30

Instrument :

MSVOA_N

ClientSampleId :

PB167234ZHE#13

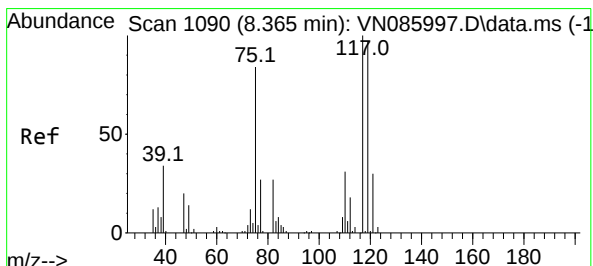
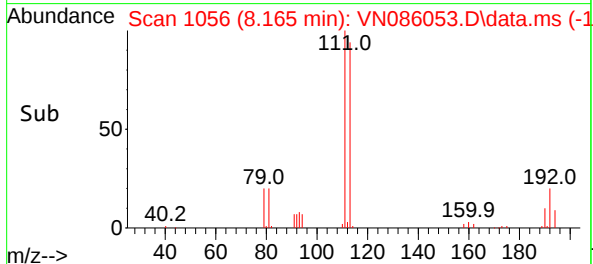
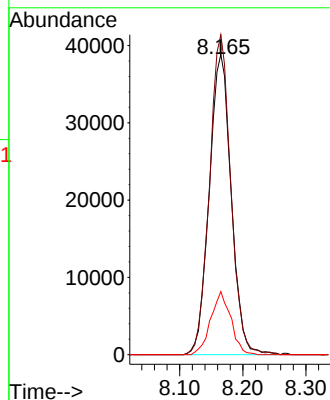
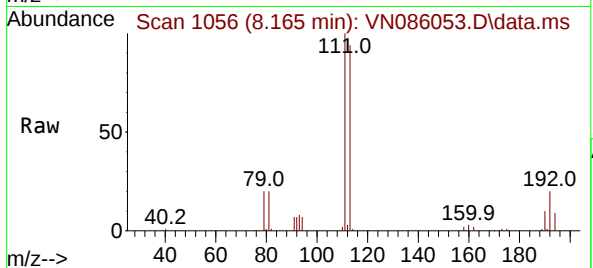
Tgt Ion:113 Resp: 93717

Ion Ratio Lower Upper

113 100

111 103.3 81.8 122.8

192 19.3 15.9 23.9



#36

1,1-Dichloropropene

Concen: 4.439 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086053.D

Acq: 21 Mar 2025 20:30

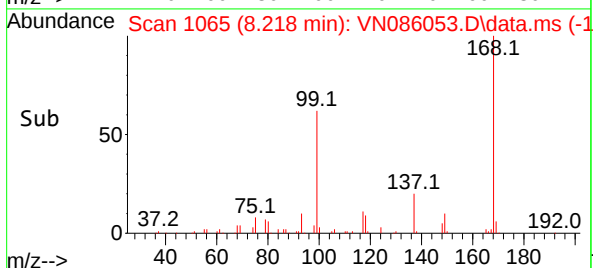
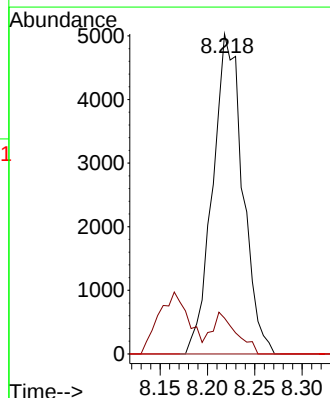
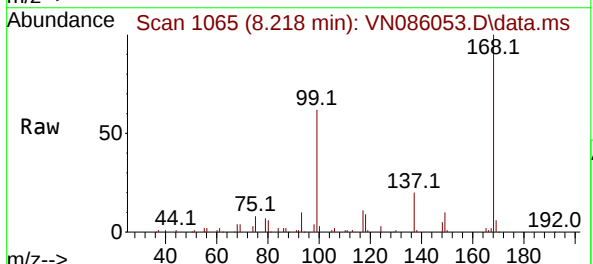
Tgt Ion: 75 Resp: 11096

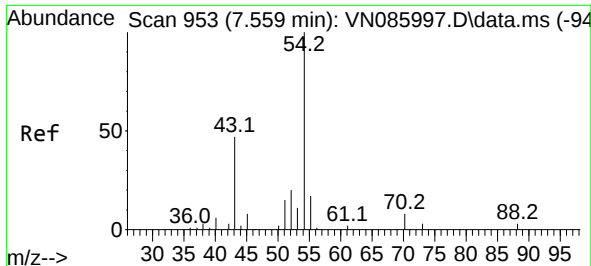
Ion Ratio Lower Upper

75 100

110 10.6 17.8 53.3#

77 0.0 25.0 37.4#

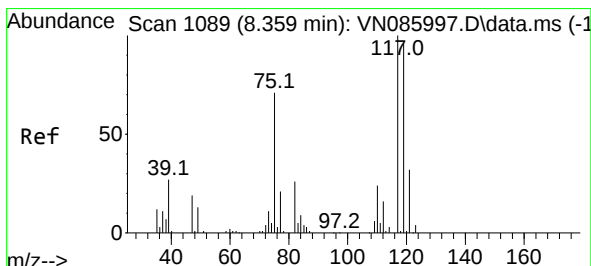
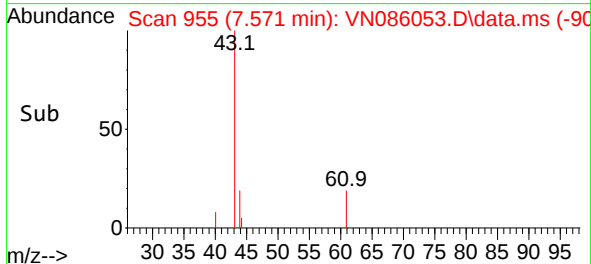
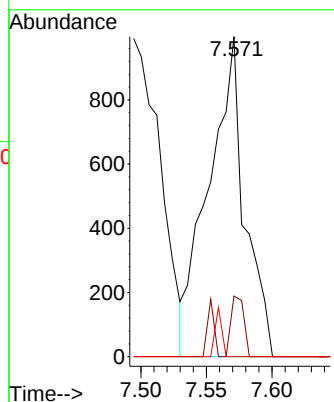
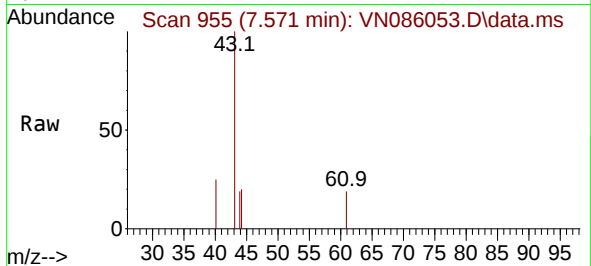




#37
Ethyl Acetate
Concen: 0.899 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN086053.D
Acq: 21 Mar 2025 20:30

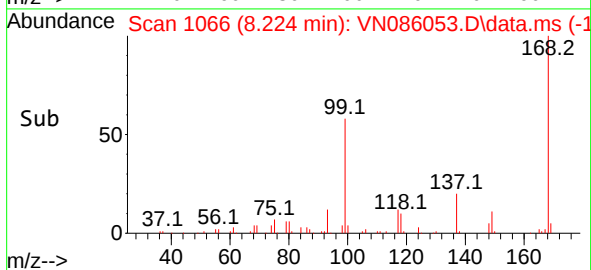
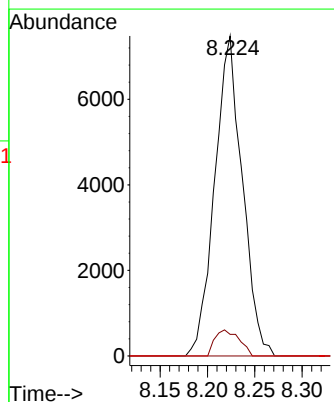
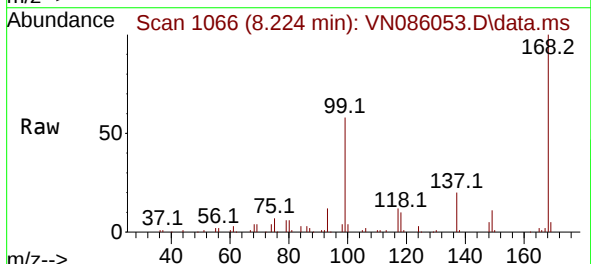
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#13

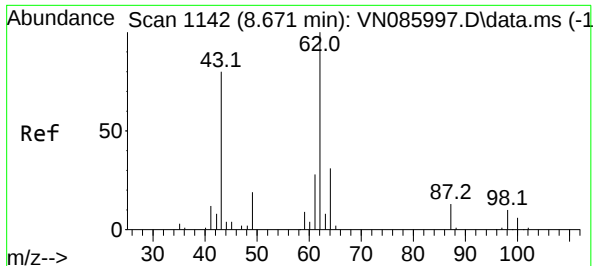
Tgt Ion: 43	Resp: 1896
Ion Ratio	Lower Upper
43	100
61	6.8 13.0 19.4#
70	0.0 11.0 16.6#



#38
Carbon Tetrachloride
Concen: 4.616 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN086053.D
Acq: 21 Mar 2025 20:30

Tgt Ion: 117	Resp: 15171
Ion Ratio	Lower Upper
117	100
119	6.8 77.0 115.4#
121	0.0 25.6 38.4#





#42

1,2-Dichloroethane

Concen: 0.272 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. -0.000 min

Lab File: VN086053.D

Acq: 21 Mar 2025 20:30

Instrument :

MSVOA_N

ClientSampleId :

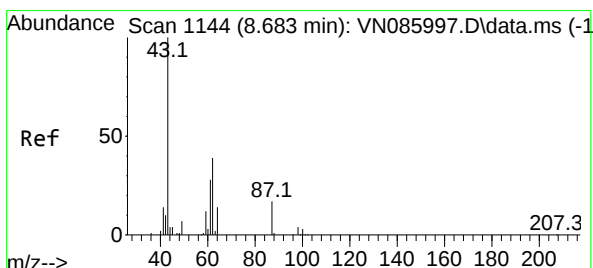
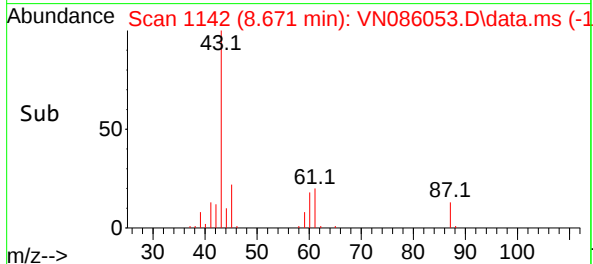
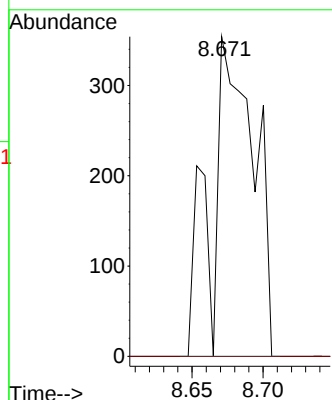
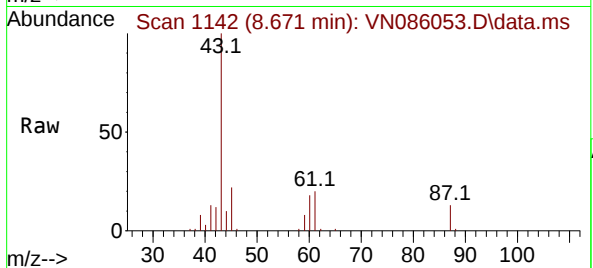
PB167234ZHE#13

Tgt Ion: 62 Resp: 743

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.6



#43

Isopropyl Acetate

Concen: 26.378 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.006 min

Lab File: VN086053.D

Acq: 21 Mar 2025 20:30

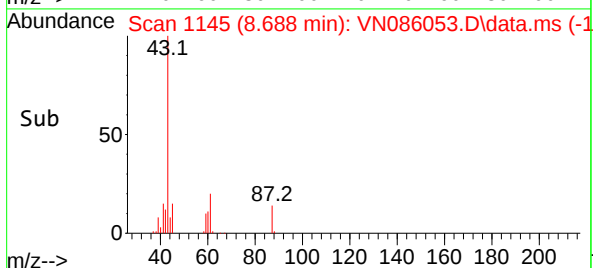
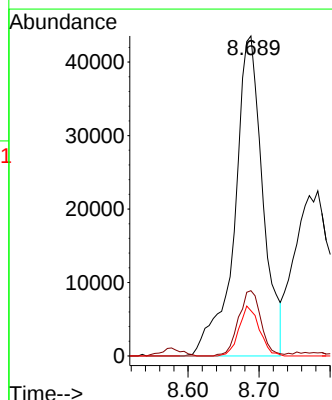
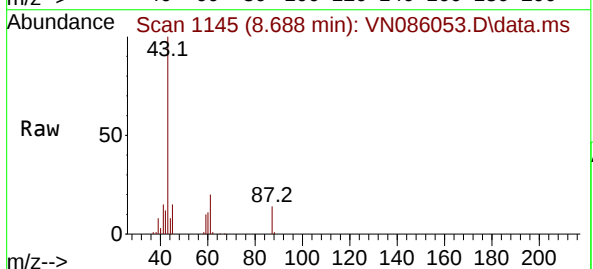
Tgt Ion: 43 Resp: 120540

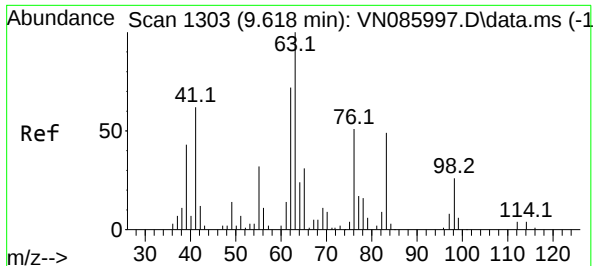
Ion Ratio Lower Upper

43 100

61 16.3 25.0 37.6#

87 11.2 13.0 19.4#





#45

1,2-Dichloropropane

Concen: 0.667 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.123 min

Lab File: VN086053.D

Acq: 21 Mar 2025 20:30

Instrument :

MSVOA_N

ClientSampleId :

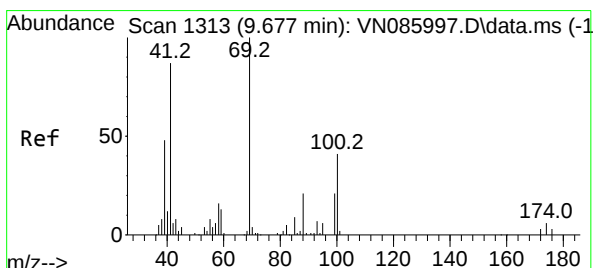
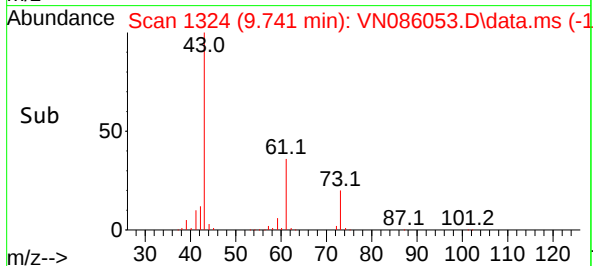
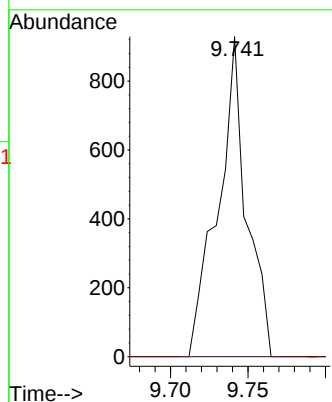
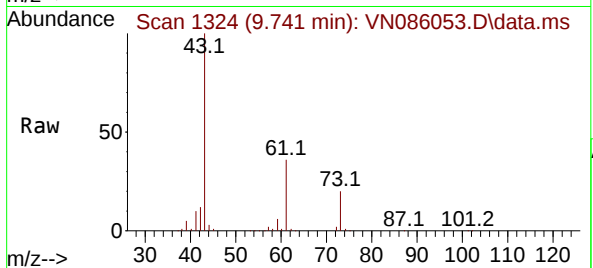
PB167234ZHE#13

Tgt Ion: 63 Resp: 1190

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



#48

Methyl methacrylate

Concen: 1.615 ug/l

RT: 9.671 min Scan# 1312

Delta R.T. -0.006 min

Lab File: VN086053.D

Acq: 21 Mar 2025 20:30

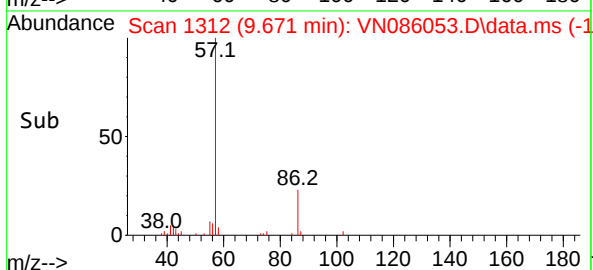
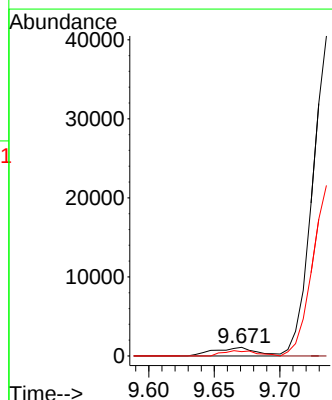
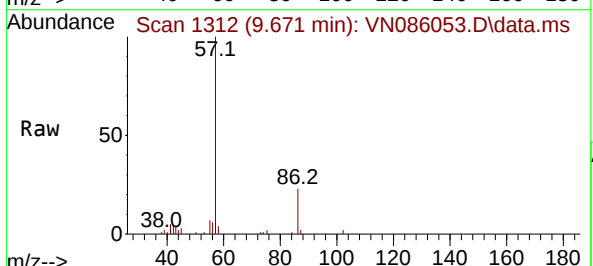
Tgt Ion: 41 Resp: 2435

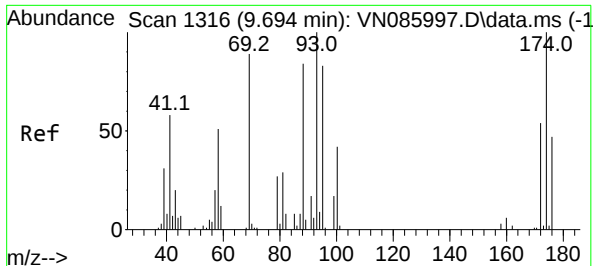
Ion Ratio Lower Upper

41 100

69 0.0 83.1 124.7#

39 0.0 45.6 68.4#





#49

1,4-Dioxane

Concen: 1.711 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN086053.D

Acq: 21 Mar 2025 20:30

Instrument :

MSVOA_N

ClientSampleId :

PB167234ZHE#13

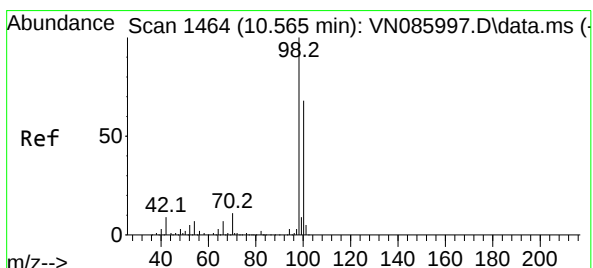
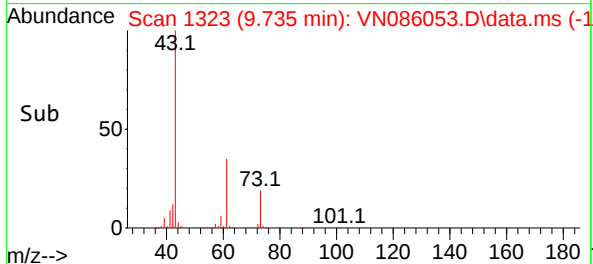
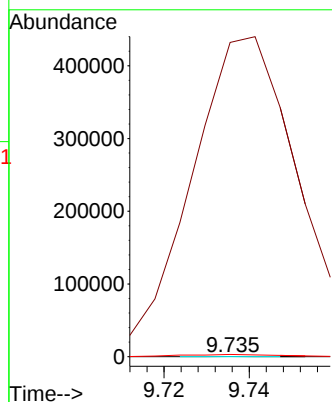
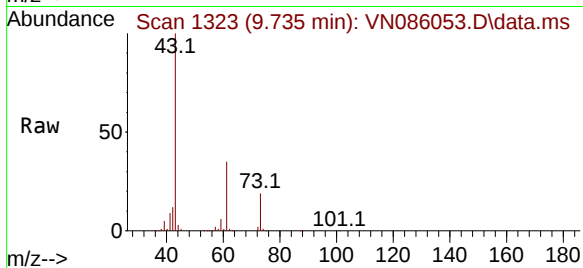
Tgt Ion: 88 Resp: 61

Ion Ratio Lower Upper

88 100

43 1293375.4 21.7 32.5#

58 8972.1 50.4 75.6#



#50

Toluene-d8

Concen: 49.957 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086053.D

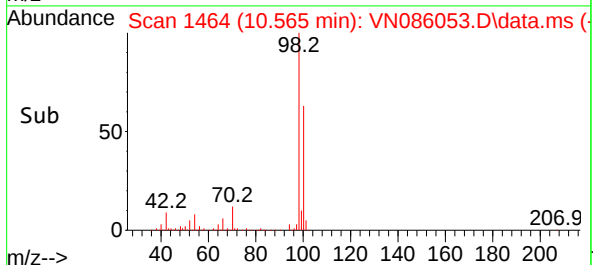
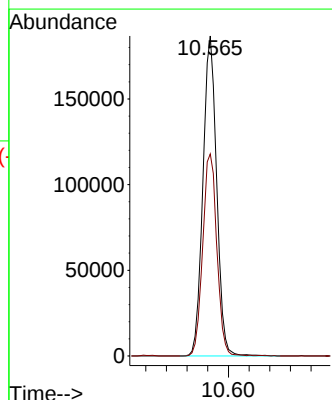
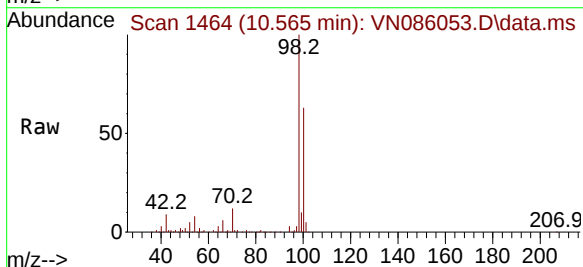
Acq: 21 Mar 2025 20:30

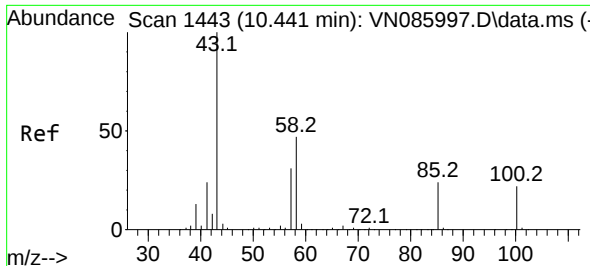
Tgt Ion: 98 Resp: 344197

Ion Ratio Lower Upper

98 100

100 64.8 53.1 79.7

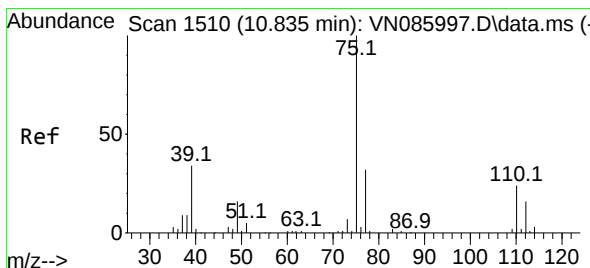
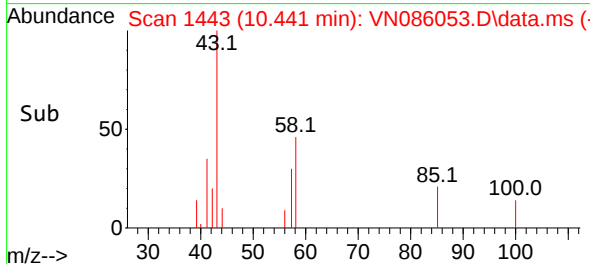
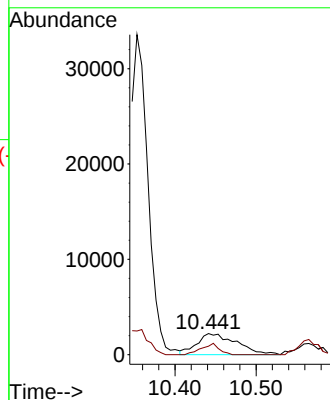
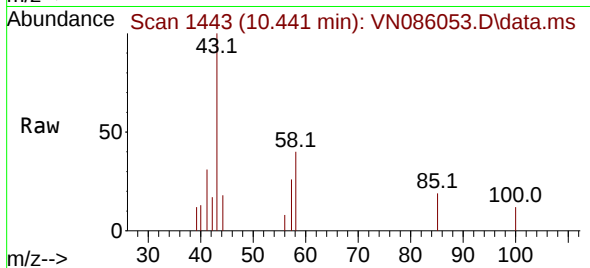




#51
4-Methyl-2-Pentanone
Concen: 3.739 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086053.D
Acq: 21 Mar 2025 20:30

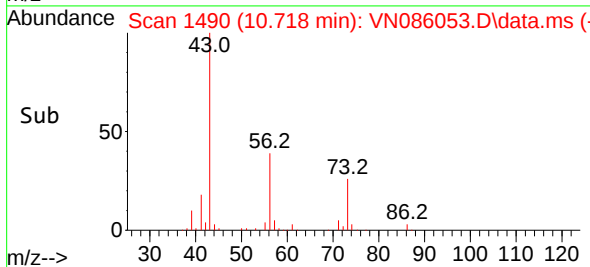
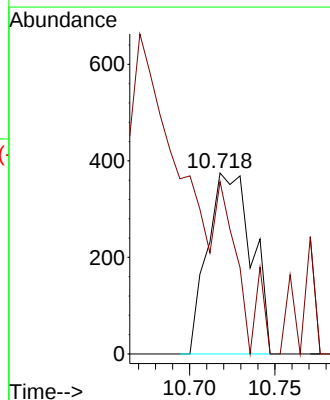
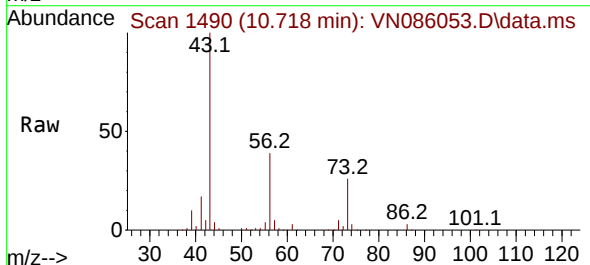
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#13

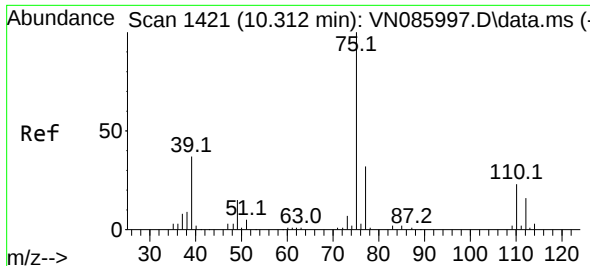
Tgt Ion: 43 Resp: 7536
Ion Ratio Lower Upper
43 100
58 23.7 37.4 56.0#



#53
t-1,3-Dichloropropene
Concen: 0.236 ug/l
RT: 10.718 min Scan# 1490
Delta R.T. -0.118 min
Lab File: VN086053.D
Acq: 21 Mar 2025 20:30

Tgt Ion: 75 Resp: 673
Ion Ratio Lower Upper
75 100
77 95.2 25.3 37.9#

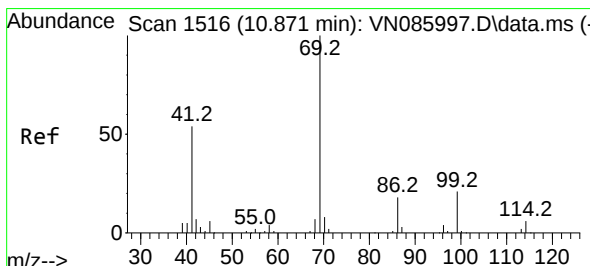
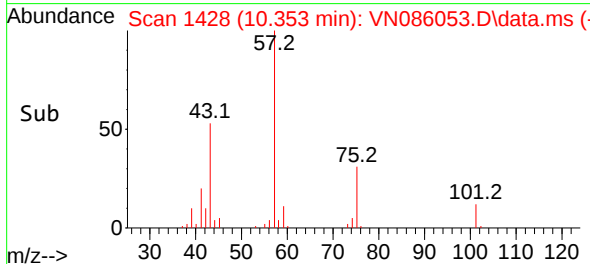
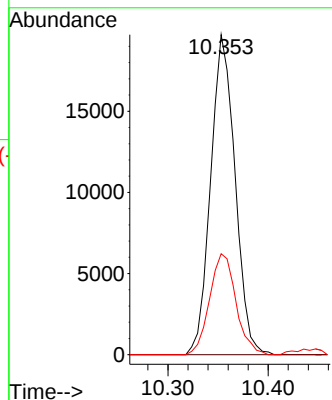
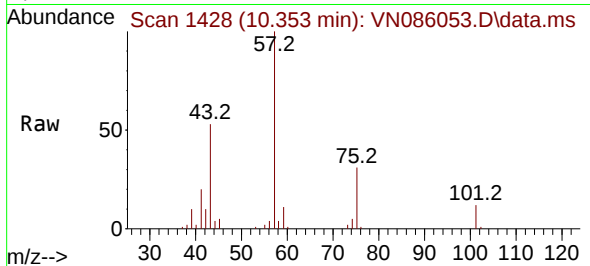




#54
 cis-1,3-Dichloropropene
 Concen: 11.096 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.041 min
 Lab File: VN086053.D
 Acq: 21 Mar 2025 20:30

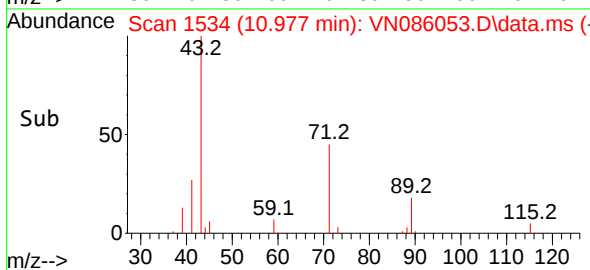
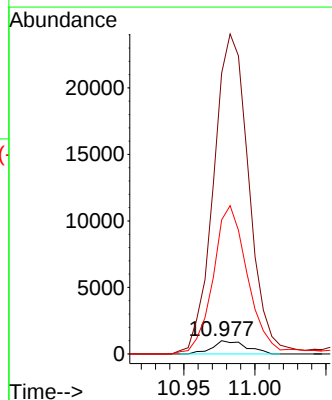
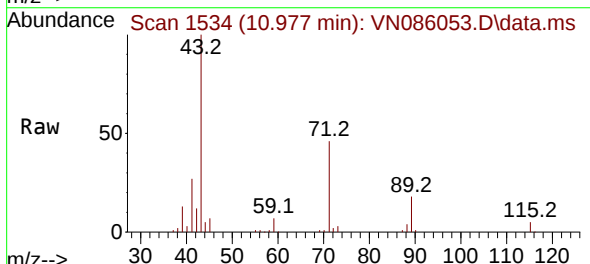
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167234ZHE#13

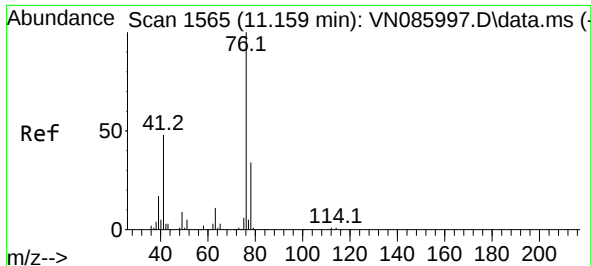
Tgt Ion: 75 Resp: 33353
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.3 37.9#
 39 31.6 29.6 44.4



#56
 Ethyl methacrylate
 Concen: 0.899 ug/l
 RT: 10.977 min Scan# 1534
 Delta R.T. 0.106 min
 Lab File: VN086053.D
 Acq: 21 Mar 2025 20:30

Tgt Ion: 69 Resp: 1651
 Ion Ratio Lower Upper
 69 100
 41 2521.9 41.6 62.4#
 39 1161.4 21.8 32.8#





#57

1,3-Dichloropropane

Concen: 1.581 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.035 min

Lab File: VN086053.D

Acq: 21 Mar 2025 20:30

Instrument :

MSVOA_N

ClientSampleId :

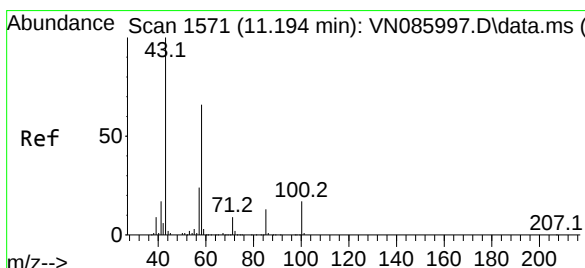
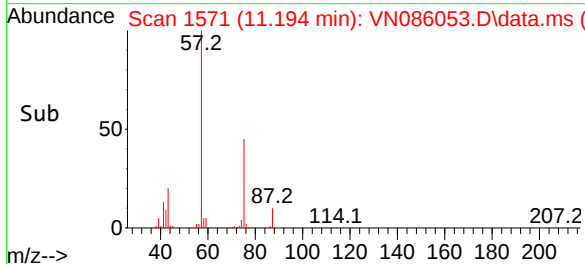
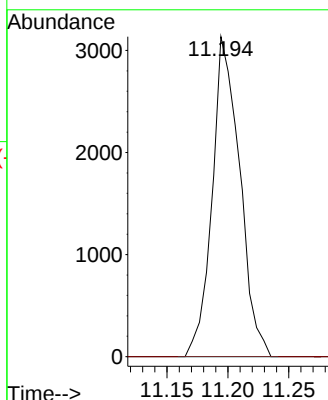
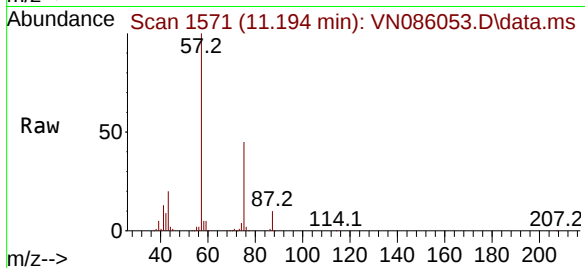
PB167234ZHE#13

Tgt Ion: 76 Resp: 4936

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 37.829 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086053.D

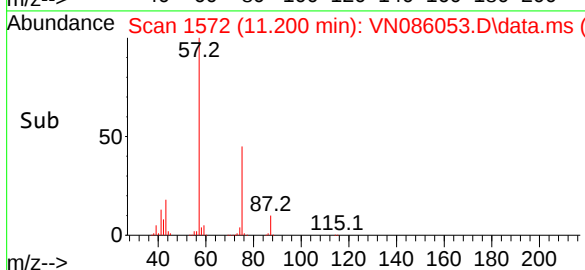
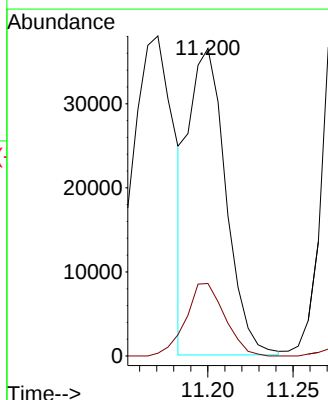
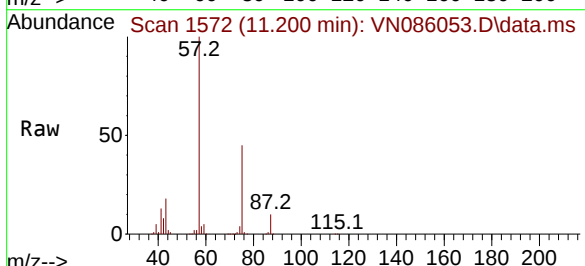
Acq: 21 Mar 2025 20:30

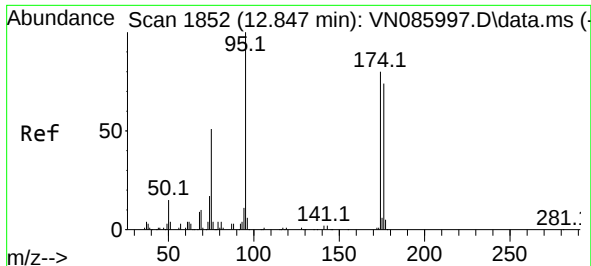
Tgt Ion: 43 Resp: 55540

Ion Ratio Lower Upper

43 100

58 24.8 32.4 97.2#

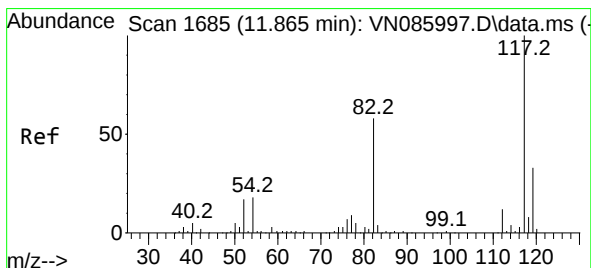
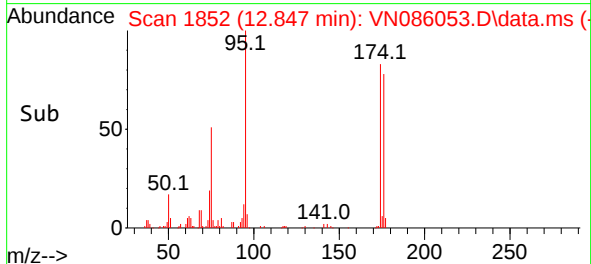
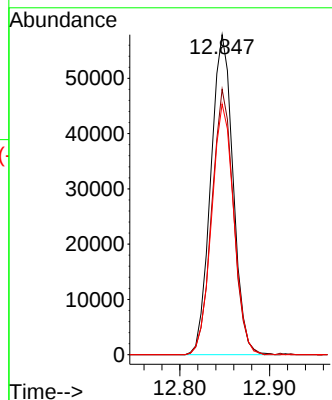
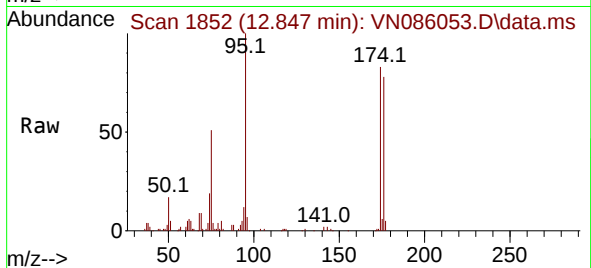




#62
4-Bromofluorobenzene
Concen: 40.622 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086053.D
Acq: 21 Mar 2025 20:30

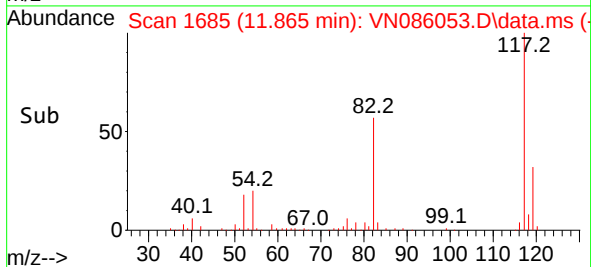
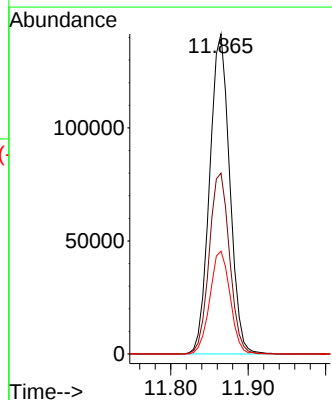
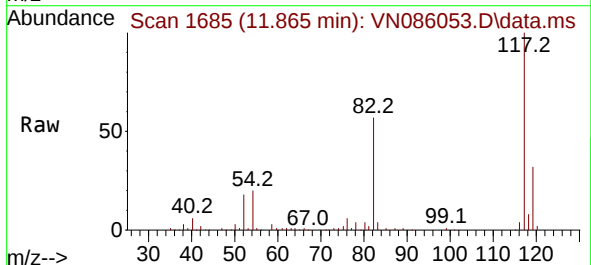
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#13

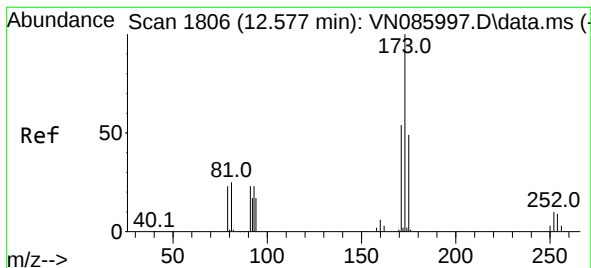
Tgt Ion: 95 Resp: 99813
Ion Ratio Lower Upper
95 100
174 80.4 0.0 156.8
176 78.1 0.0 152.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086053.D
Acq: 21 Mar 2025 20:30

Tgt Ion: 117 Resp: 254743
Ion Ratio Lower Upper
117 100
82 56.5 46.7 70.1
119 32.2 26.5 39.7





#71

Bromoform

Concen: 0.256 ug/l

RT: 12.841 min Scan# 1806

Delta R.T. 0.265 min

Lab File: VN086053.D

Acq: 21 Mar 2025 20:30

Instrument :

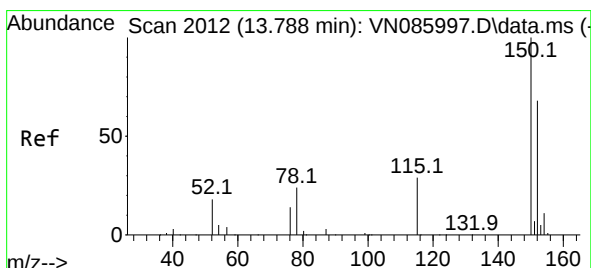
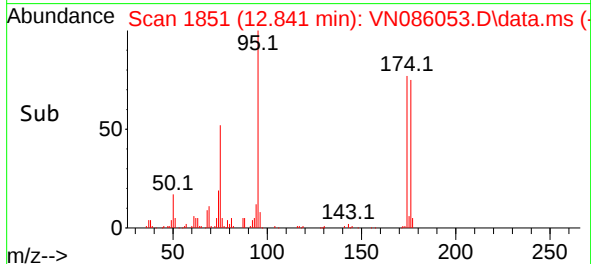
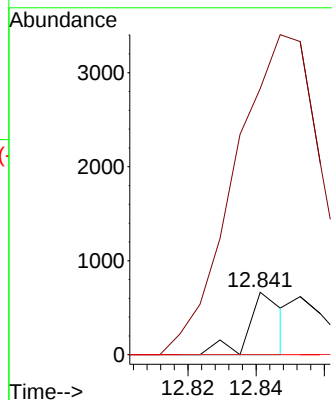
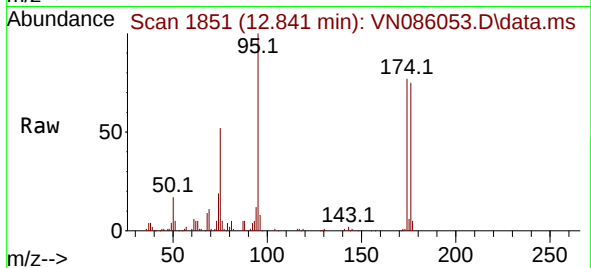
MSVOA_N

ClientSampleId :

PB167234ZHE#13

Tgt Ion:173 Resp: 464

Ion	Ratio	Lower	Upper
173	100		
175	1058.2	24.3	73.0#
254	0.0	0.0	0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 1212

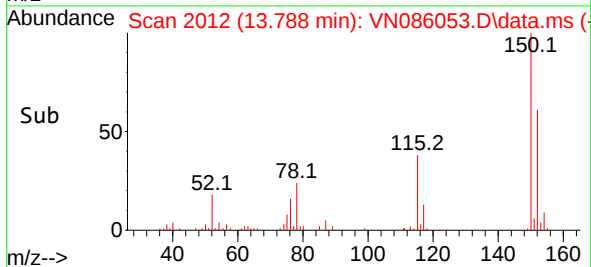
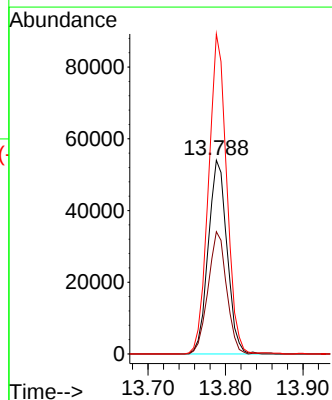
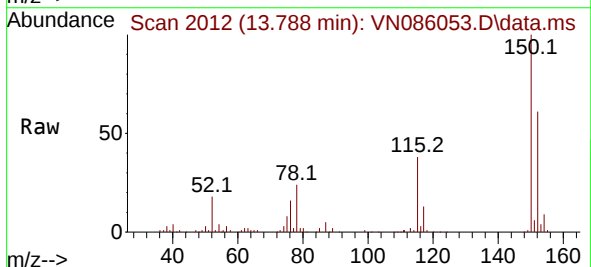
Delta R.T. -0.000 min

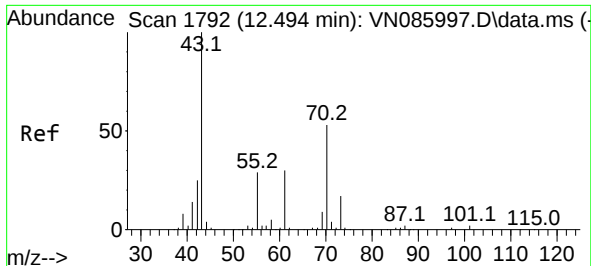
Lab File: VN086053.D

Acq: 21 Mar 2025 20:30

Tgt Ion:152 Resp: 90983

Ion	Ratio	Lower	Upper
152	100		
115	62.1	31.1	93.2
150	159.7	0.0	359.6

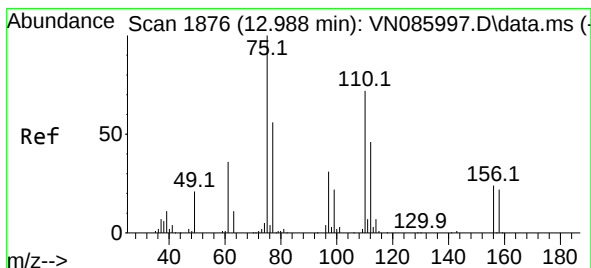
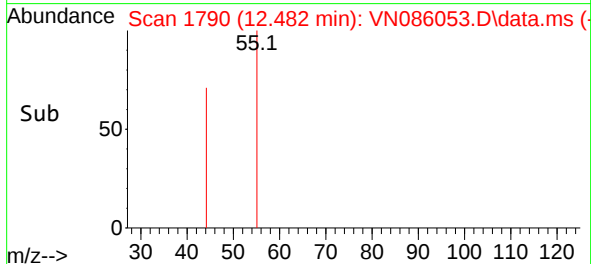
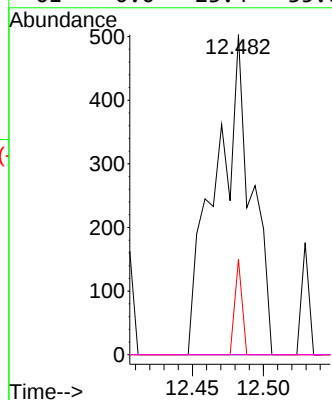
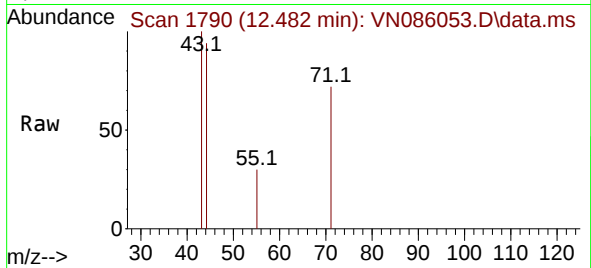




#74
N-amy1 acetate
Concen: 0.419 ug/l
RT: 12.482 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN086053.D
Acq: 21 Mar 2025 20:30

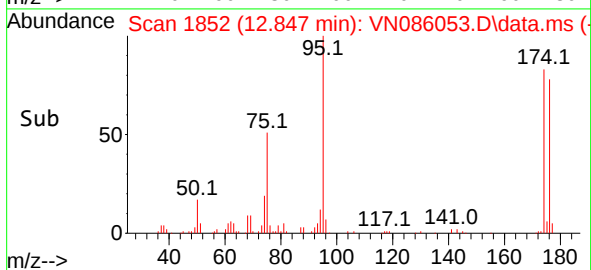
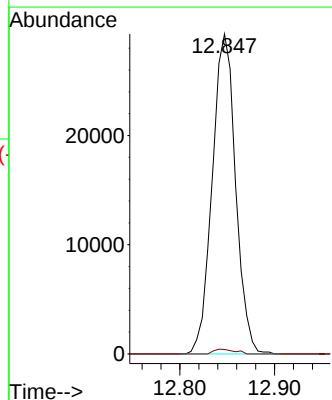
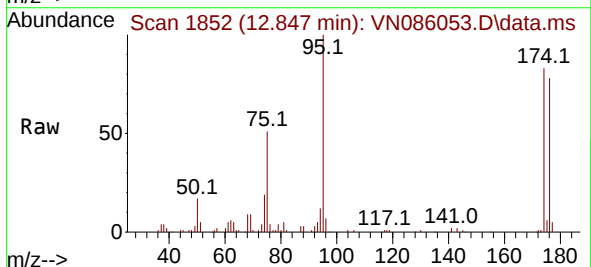
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#13

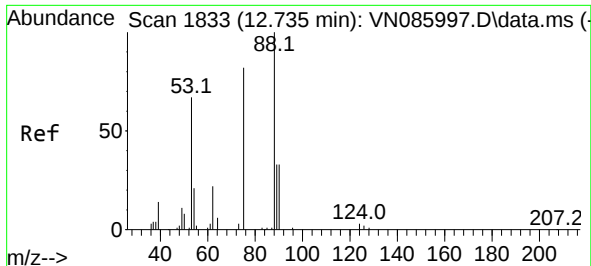
Tgt Ion: 43	Resp: 872
Ion Ratio	Lower Upper
43 100	
70 0.0	43.0 64.4#
55 6.1	23.8 35.8#
61 0.0	23.4 35.0#



#76
1,2,3-Trichloropropane
Concen: 24.659 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086053.D
Acq: 21 Mar 2025 20:30

Tgt Ion: 75	Resp: 50228
Ion Ratio	Lower Upper
75 100	
77 1.3	83.7 251.0#

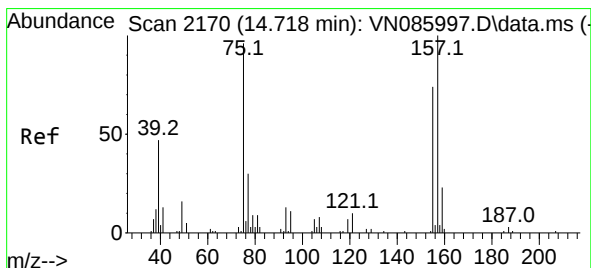
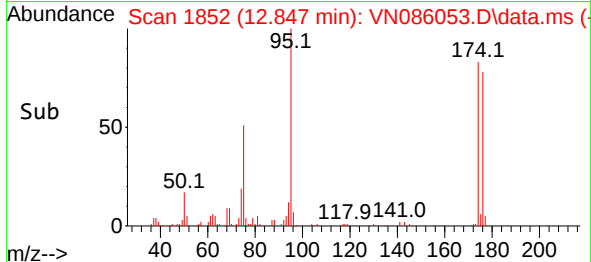
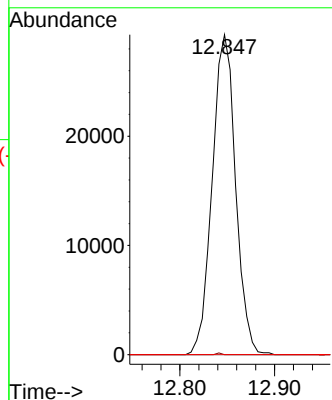
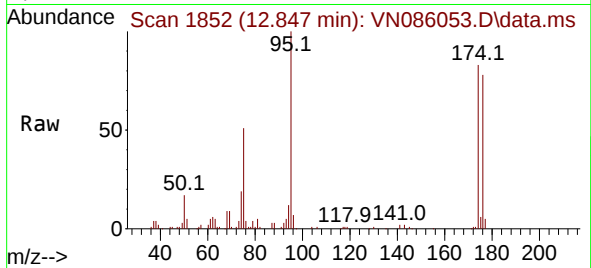




#81
trans-1,4-Dichloro-2-butene
Concen: 65.193 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086053.D
Acq: 21 Mar 2025 20:30

Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#13

Tgt Ion: 75 Resp: 50228
Ion Ratio Lower Upper
75 100
53 0.1 66.0 99.0#
89 0.0 36.9 55.3#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.243 ug/l
RT: 14.700 min Scan# 2167
Delta R.T. -0.018 min
Lab File: VN086053.D
Acq: 21 Mar 2025 20:30

Tgt Ion: 75 Resp: 102
Ion Ratio Lower Upper
75 100
155 0.0 41.0 123.0#
157 0.0 53.7 161.1#

