

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041825\
 Data File : VN086338.D
 Acq On : 18 Apr 2025 12:55
 Operator : JC\MD
 Sample : PB167623ZHE#03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167623ZHE#03

Quant Time: Apr 19 02:23:25 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)

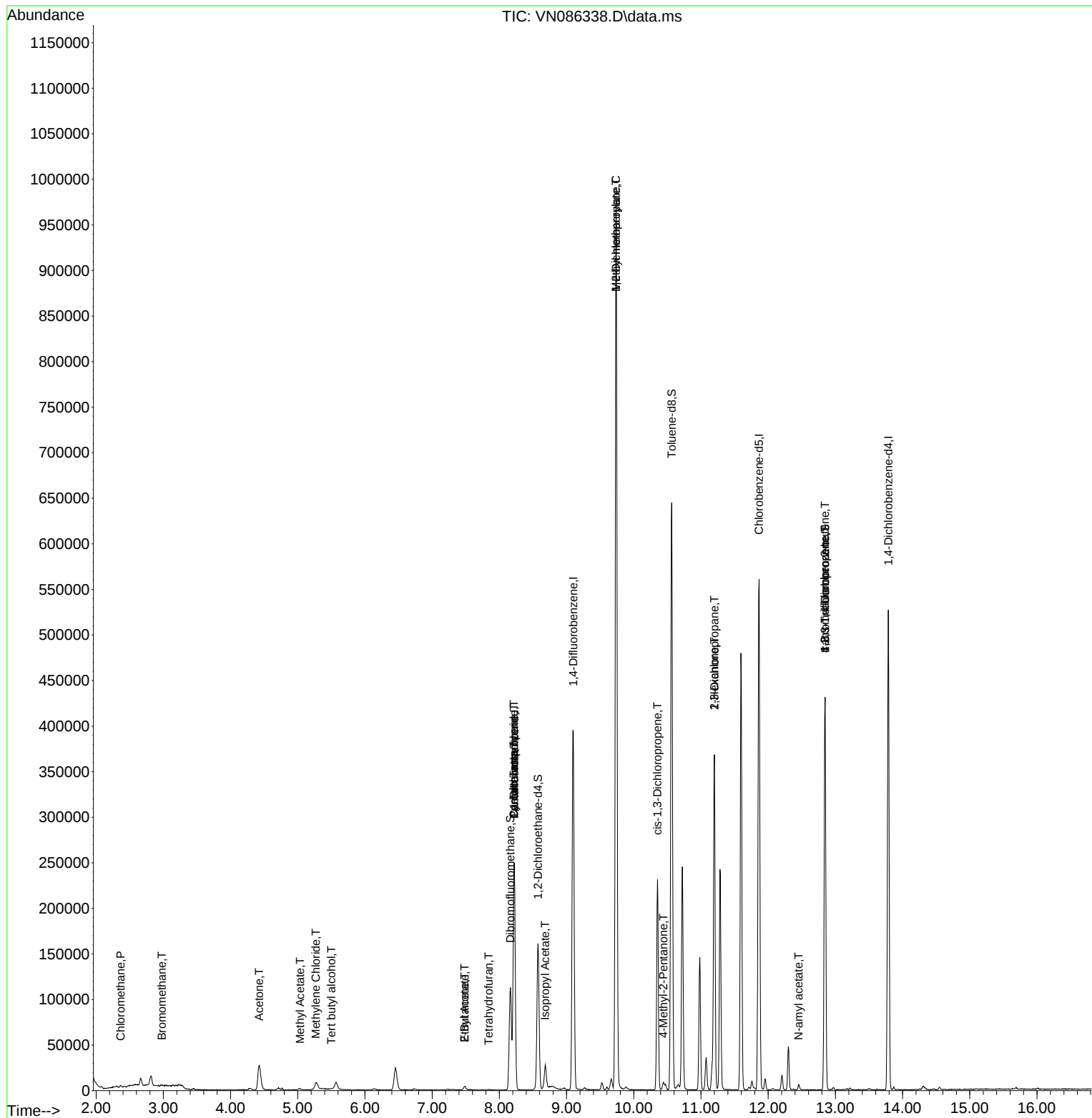
Internal Standards						
1) Pentafluorobenzene	8.224	168	186122	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	358023	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	330716	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	139483	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	132830	49.216	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	98.440%
35) Dibromofluoromethane	8.165	113	85162	51.252	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	102.500%
50) Toluene-d8	10.565	98	452790	50.987	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	101.980%
62) 4-Bromofluorobenzene	12.847	95	160891	49.671	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	99.340%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1176	0.367	ug/l	89
5) Bromomethane	2.977	94	633	0.460	ug/l	85
11) Tert butyl alcohol	5.500	59	519	1.054	ug/l #	72
13) Acrolein	4.189	56	59	Below Cal	#	1
16) Acetone	4.424	43	54808	54.267	ug/l	98
18) Methyl Acetate	5.036	43	3272	1.010	ug/l #	77
20) Methylene Chloride	5.271	84	5897	2.363	ug/l	94
25) 2-Butanone	7.483	43	7030	4.185	ug/l	96
29) Tetrahydrofuran	7.841	42	403	0.359	ug/l #	45
31) Cyclohexane	8.218	56	4038	0.923	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	15498	4.670	ug/l #	50
37) Ethyl Acetate	7.483	43	7030	2.012	ug/l #	68
38) Carbon Tetrachloride	8.218	117	19003	6.012	ug/l #	16
43) Isopropyl Acetate	8.682	43	33485	3.540	ug/l #	88
45) 1,2-Dichloropropane	9.735	63	1330	0.511	ug/l #	43
48) Methyl methacrylate	9.735	41	86454	28.176	ug/l #	42
51) 4-Methyl-2-Pentanone	10.441	43	5197	1.453	ug/l	92
54) cis-1,3-Dichloropropene	10.353	75	43596	9.927	ug/l #	60
57) 1,3-Dichloropropane	11.200	76	4013	0.947	ug/l #	43
59) 2-Hexanone	11.200	43	73609	27.736	ug/l #	42
74) N-amyl acetate	12.453	43	5059	0.891	ug/l #	45
76) 1,2,3-Trichloropropane	12.847	75	82292	25.001	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	82292	60.042	ug/l #	10

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

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Instrument :
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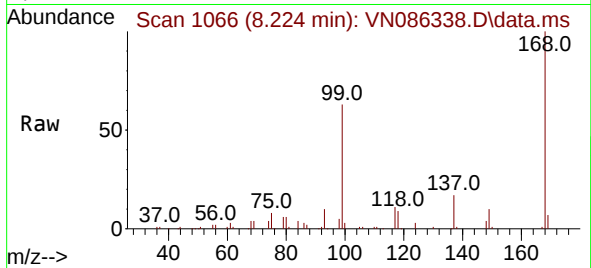
Quant Time: Apr 19 02:23:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
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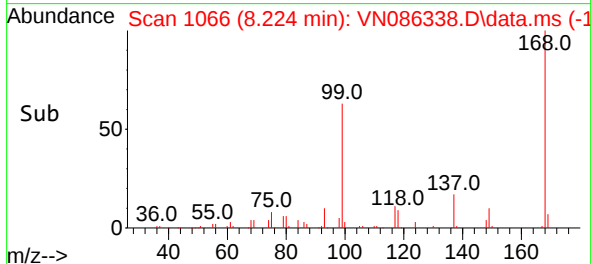
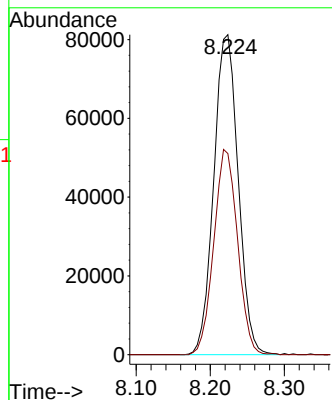


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086338.D
Acq: 18 Apr 2025 12:55

Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#03

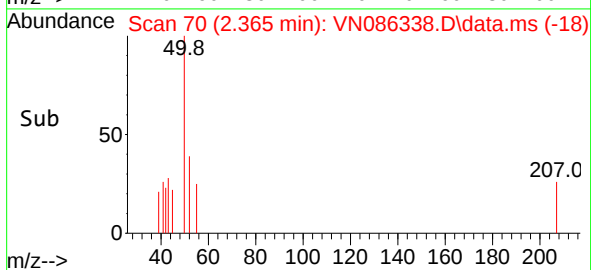
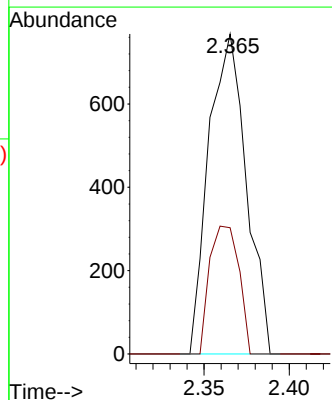
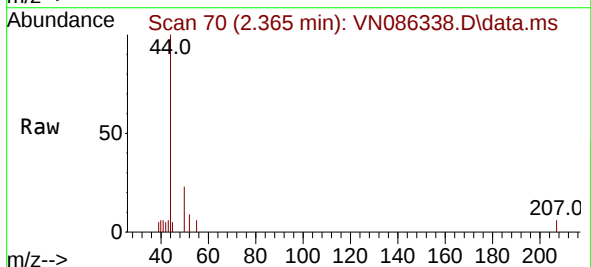


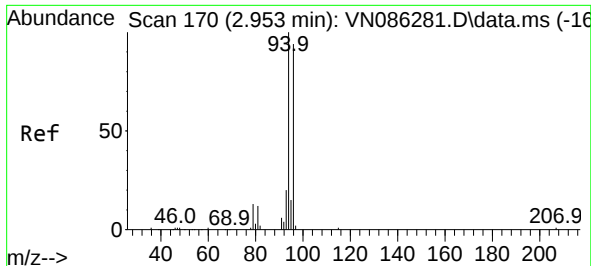
Tgt Ion:168 Resp: 186122
Ion Ratio Lower Upper
168 100
99 62.8 52.5 78.7



#3
Chloromethane
Concen: 0.367 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086338.D
Acq: 18 Apr 2025 12:55

Tgt Ion: 50 Resp: 1176
Ion Ratio Lower Upper
50 100
52 39.5 26.5 39.7

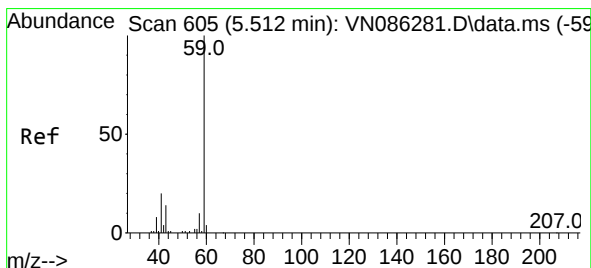
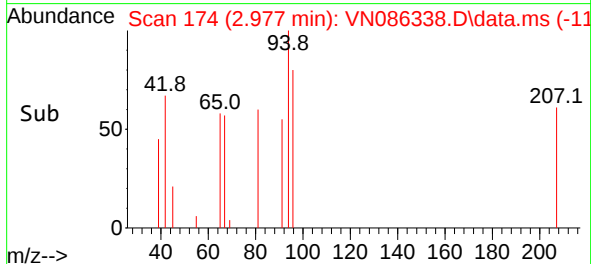
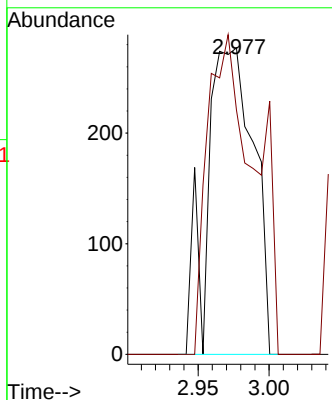
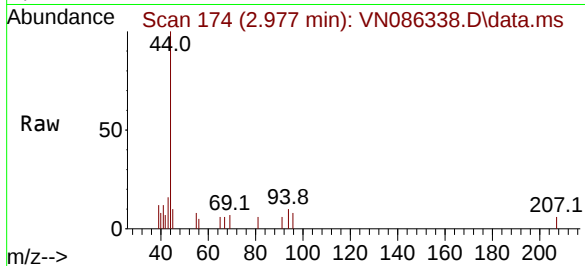




#5
Bromomethane
Concen: 0.460 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN086338.D
Acq: 18 Apr 2025 12:55

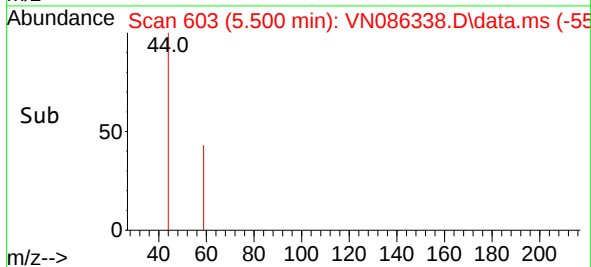
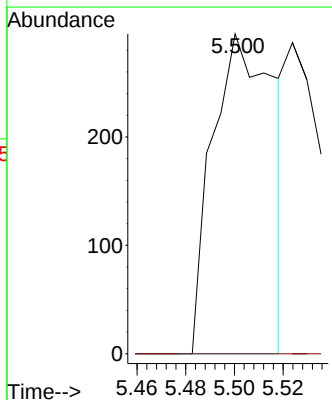
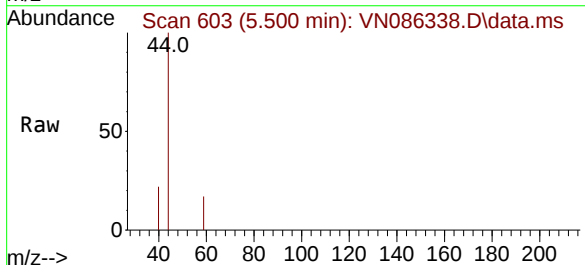
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#03

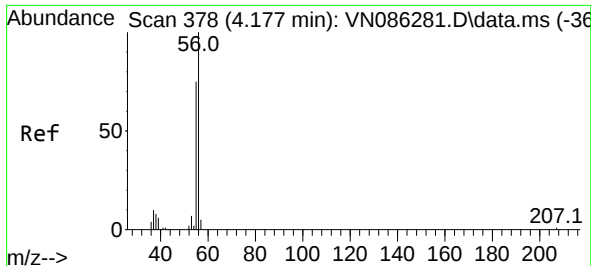
Tgt Ion: 94 Resp: 633
Ion Ratio Lower Upper
94 100
96 79.8 75.2 112.8



#11
Tert butyl alcohol
Concen: 1.054 ug/l
RT: 5.500 min Scan# 603
Delta R.T. -0.012 min
Lab File: VN086338.D
Acq: 18 Apr 2025 12:55

Tgt Ion: 59 Resp: 519
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

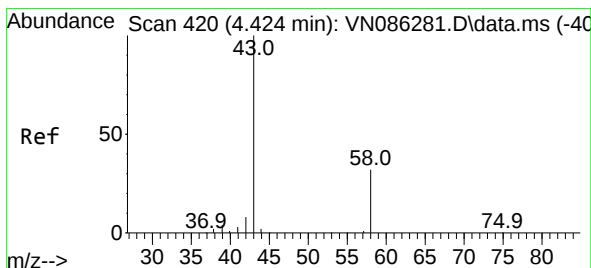
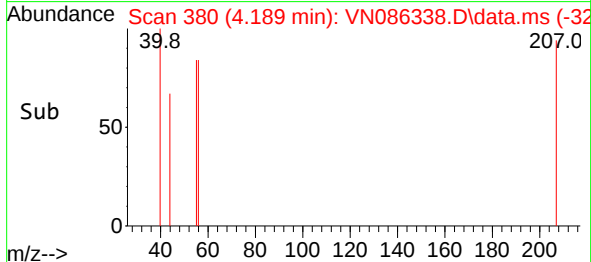
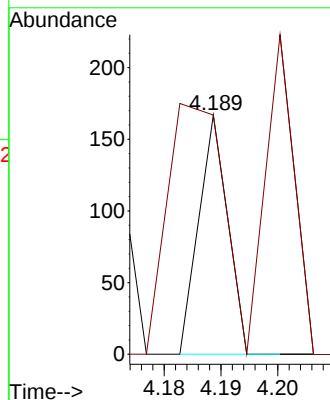
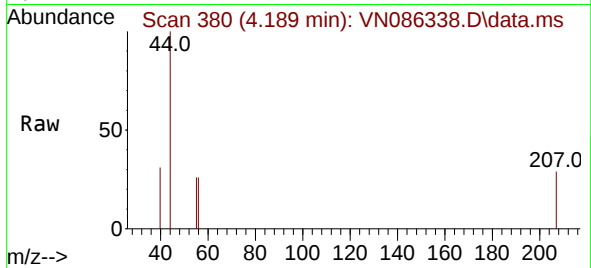




#13
Acrolein
Concen: Below Cal
RT: 4.189 min Scan# 378
Delta R.T. 0.012 min
Lab File: VN086338.D
Acq: 18 Apr 2025 12:55

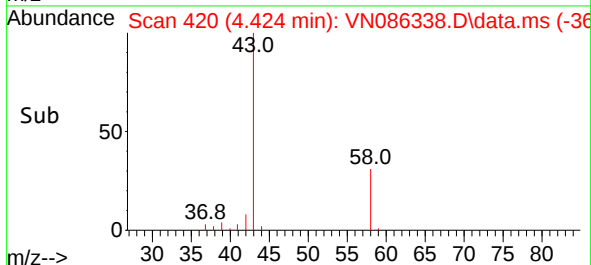
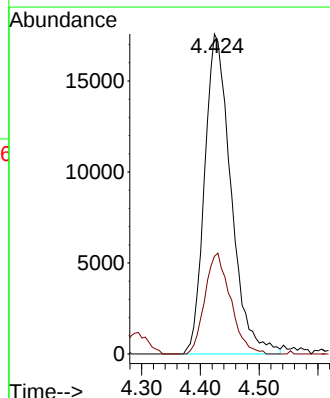
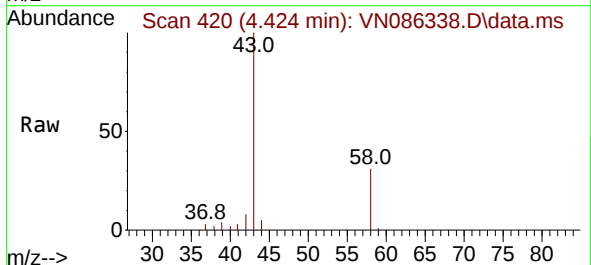
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#03

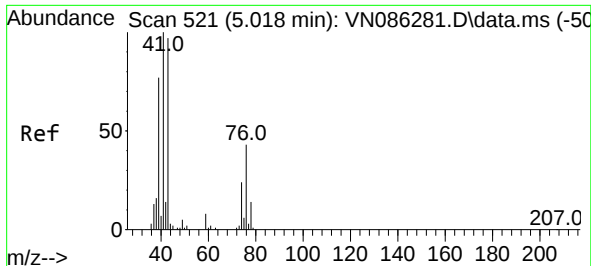
Tgt Ion: 56 Resp: 59
Ion Ratio Lower Upper
56 100
55 205.1 58.5 87.7#



#16
Acetone
Concen: 54.267 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN086338.D
Acq: 18 Apr 2025 12:55

Tgt Ion: 43 Resp: 54808
Ion Ratio Lower Upper
43 100
58 30.5 25.3 37.9

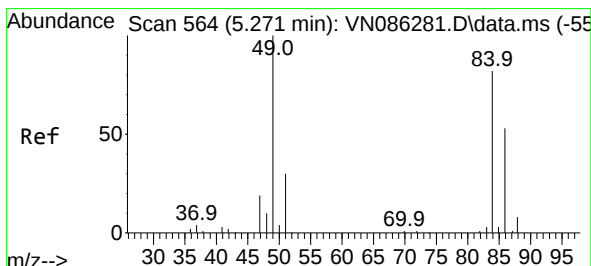
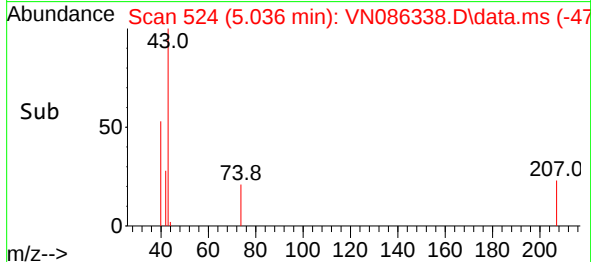
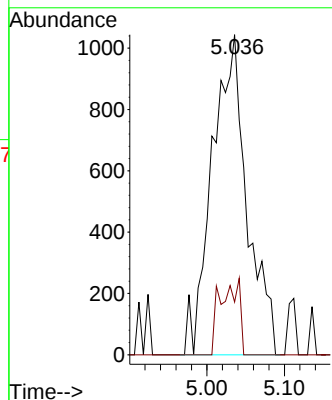
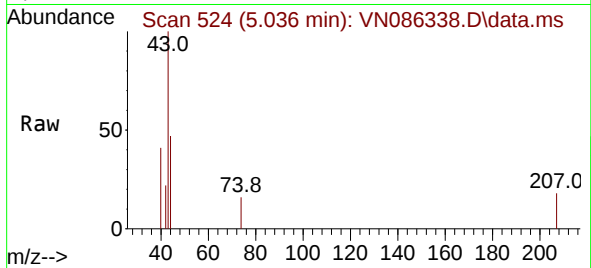




#18
Methyl Acetate
Concen: 1.010 ug/l
RT: 5.036 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN086338.D
Acq: 18 Apr 2025 12:55

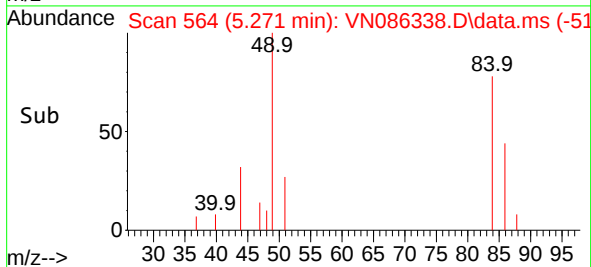
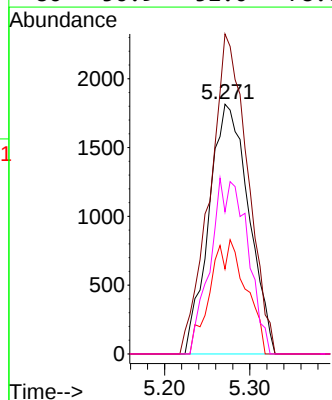
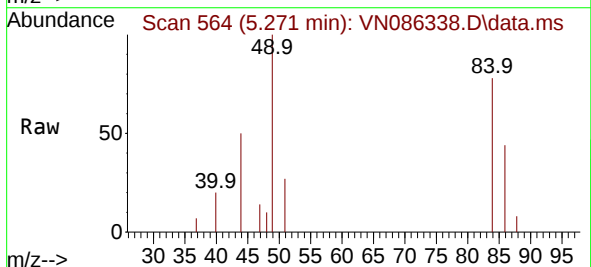
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#03

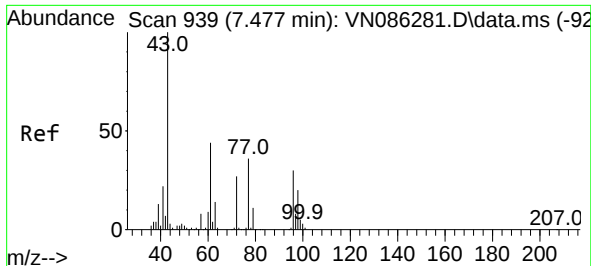
Tgt Ion: 43 Resp: 3272
Ion Ratio Lower Upper
43 100
74 13.1 19.8 29.6#



#20
Methylene Chloride
Concen: 2.363 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN086338.D
Acq: 18 Apr 2025 12:55

Tgt Ion: 84 Resp: 5897
Ion Ratio Lower Upper
84 100
49 128.2 98.2 147.2
51 34.0 29.8 44.6
86 56.9 52.0 78.0

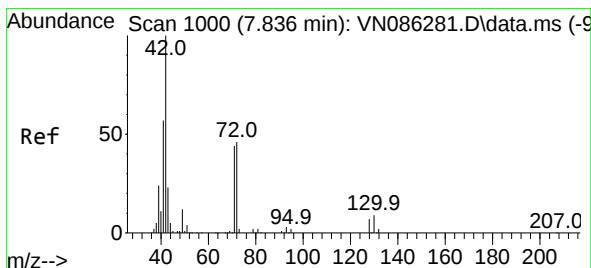
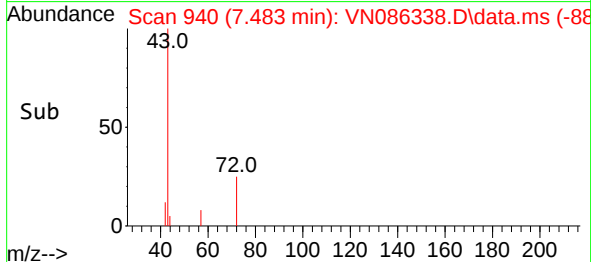
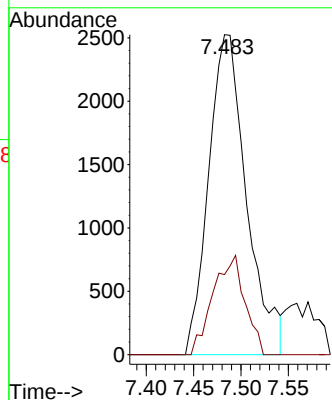
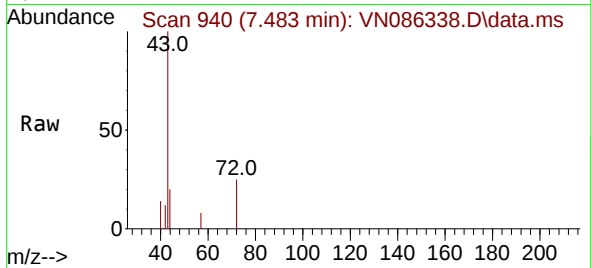




#25
2-Butanone
Concen: 4.185 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN086338.D
Acq: 18 Apr 2025 12:55

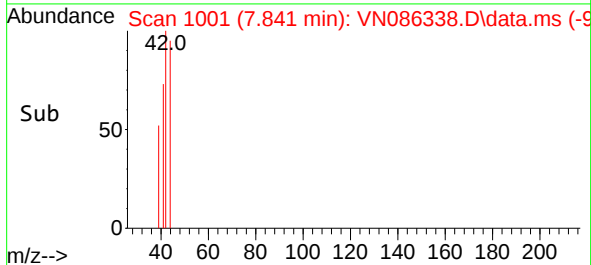
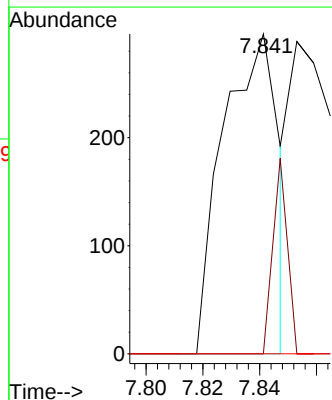
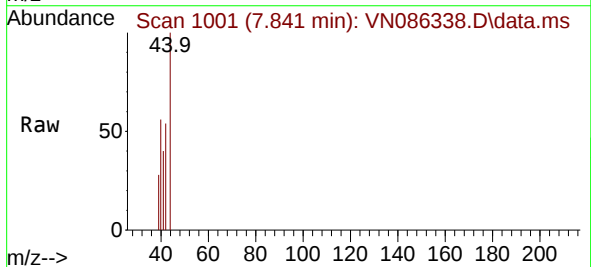
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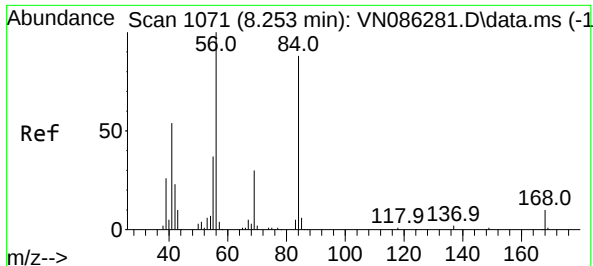
Tgt Ion: 43 Resp: 7030
Ion Ratio Lower Upper
43 100
72 25.1 21.7 32.5



#29
Tetrahydrofuran
Concen: 0.359 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VN086338.D
Acq: 18 Apr 2025 12:55

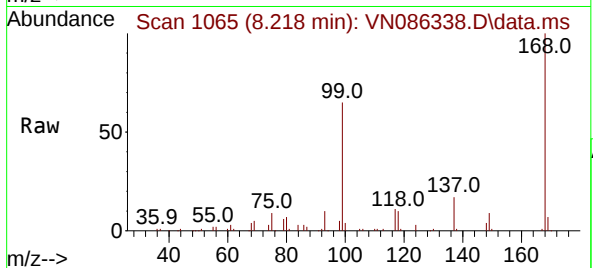
Tgt Ion: 42 Resp: 403
Ion Ratio Lower Upper
42 100
72 15.9 36.2 54.4#
71 0.0 34.0 51.0#



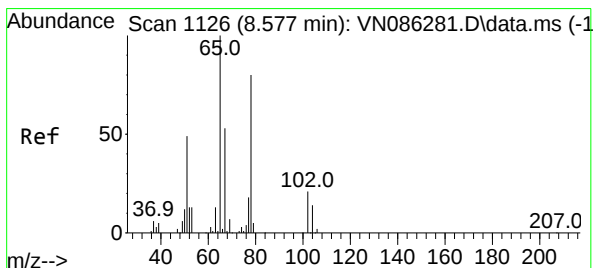
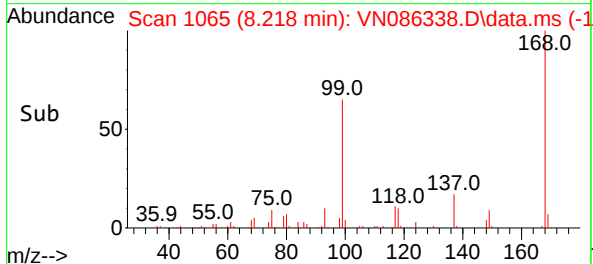
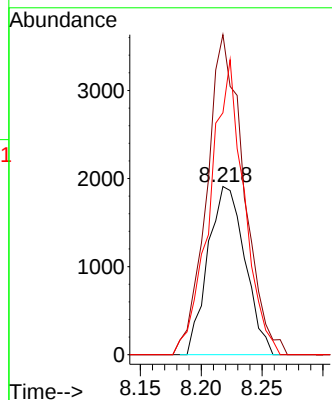


#31
Cyclohexane
Concen: 0.923 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN086338.D
Acq: 18 Apr 2025 12:55

Instrument :
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ClientSampleId :
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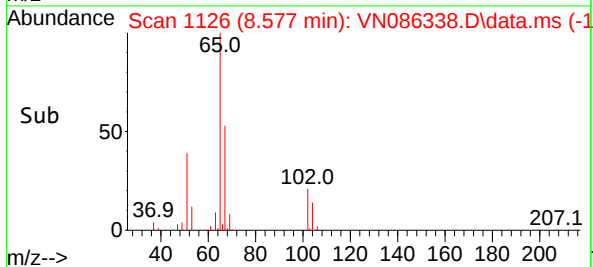
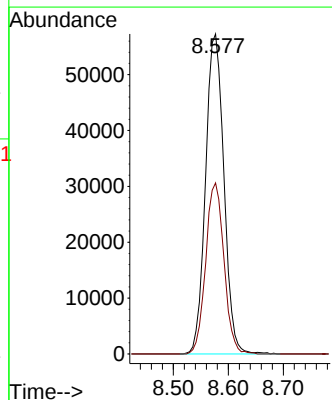
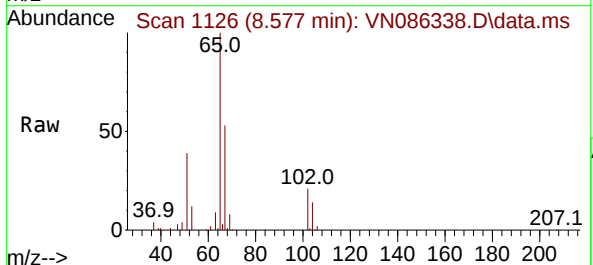


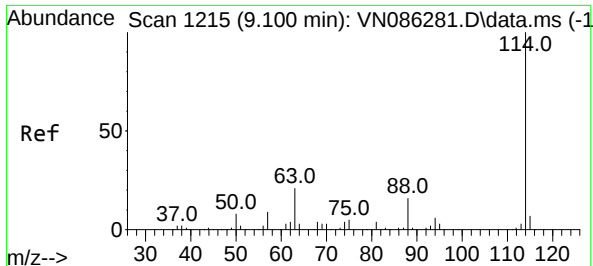
Tgt Ion: 56 Resp: 4038
Ion Ratio Lower Upper
56 100
69 181.6 24.2 36.2#
84 143.8 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 49.216 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086338.D
Acq: 18 Apr 2025 12:55

Tgt Ion: 65 Resp: 132830
Ion Ratio Lower Upper
65 100
67 53.2 0.0 106.0

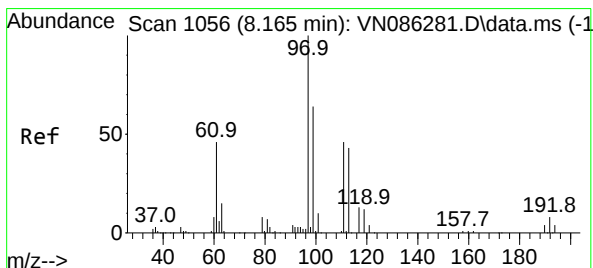
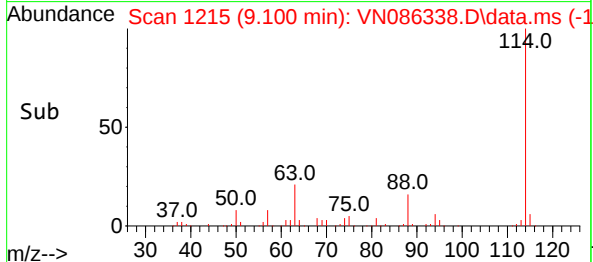
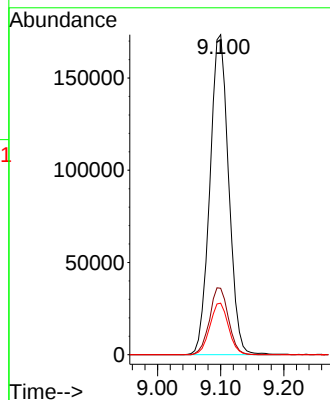
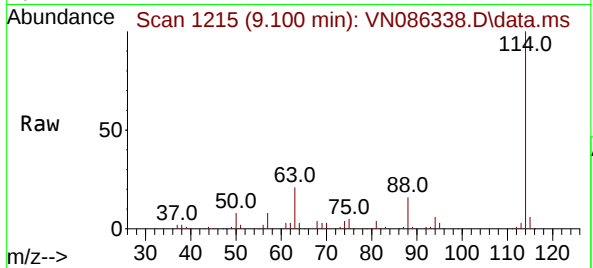




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086338.D
Acq: 18 Apr 2025 12:55

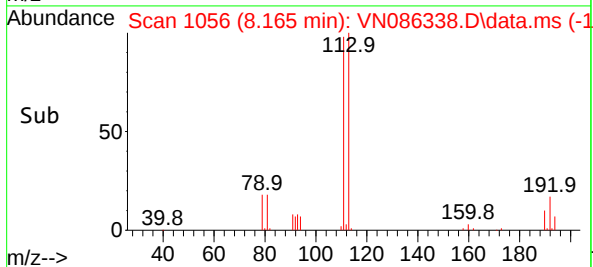
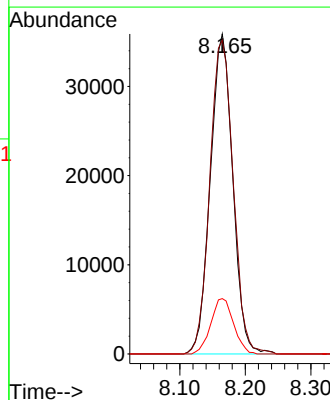
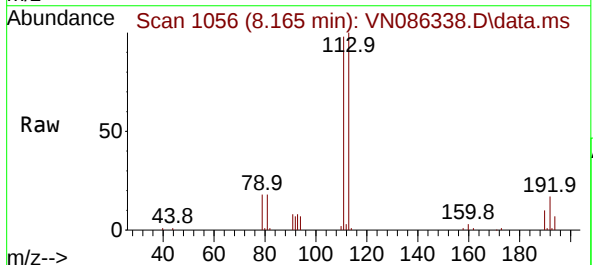
Instrument :
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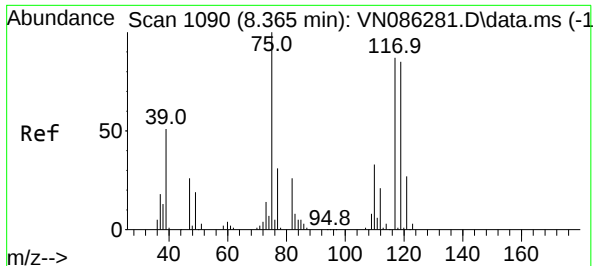
Tgt Ion:114 Resp: 358023
Ion Ratio Lower Upper
114 100
63 20.7 0.0 42.6
88 16.1 0.0 31.8



#35
Dibromofluoromethane
Concen: 51.252 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086338.D
Acq: 18 Apr 2025 12:55

Tgt Ion:113 Resp: 85162
Ion Ratio Lower Upper
113 100
111 102.1 83.4 125.0
192 17.6 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.670 ug/l

RT: 8.218 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN086338.D

Acq: 18 Apr 2025 12:55

Instrument :

MSVOA_N

ClientSampleId :

PB167623ZHE#03

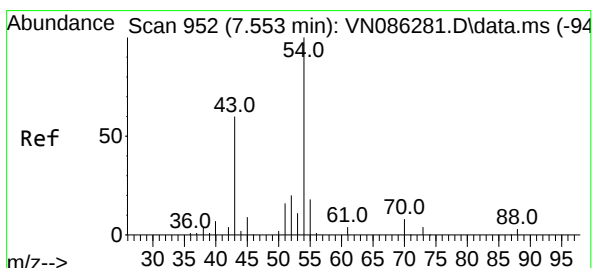
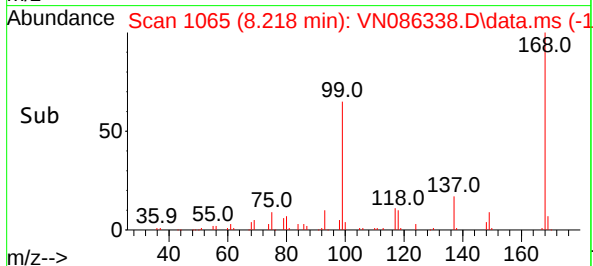
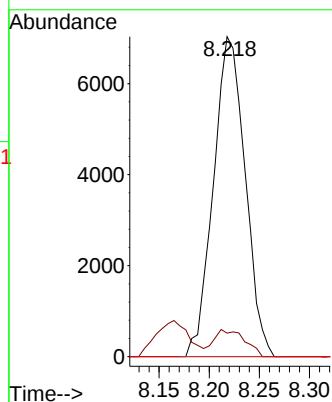
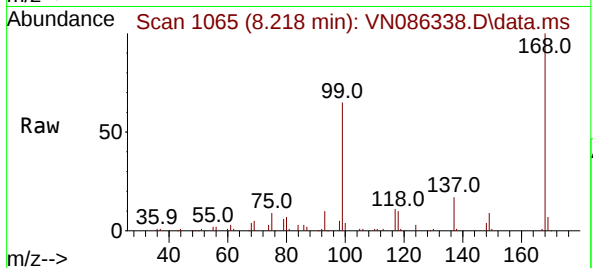
Tgt Ion: 75 Resp: 15498

Ion Ratio Lower Upper

75 100

110 8.2 16.8 50.4#

77 0.0 24.9 37.3#



#37

Ethyl Acetate

Concen: 2.012 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.071 min

Lab File: VN086338.D

Acq: 18 Apr 2025 12:55

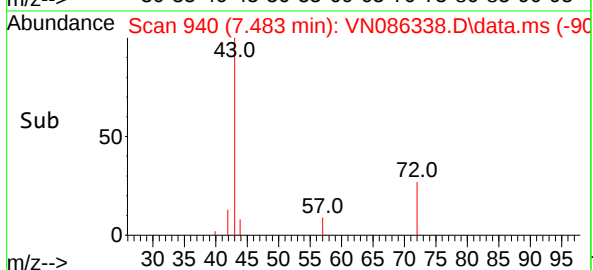
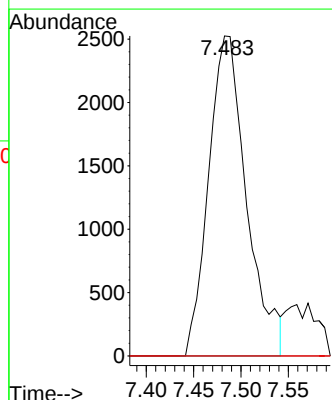
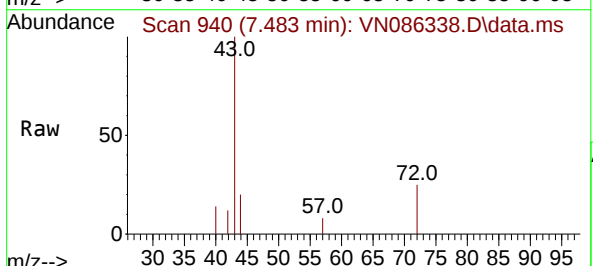
Tgt Ion: 43 Resp: 7030

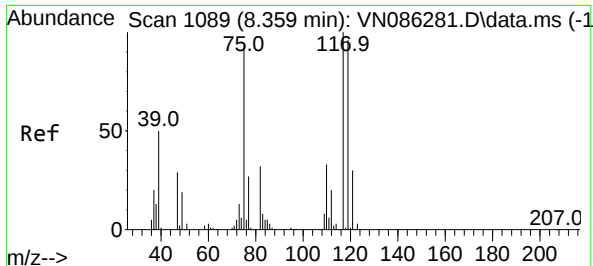
Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

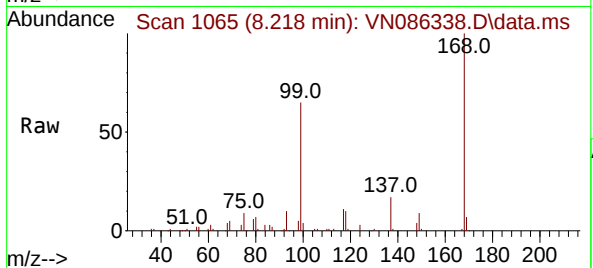
70 0.0 9.2 13.8#



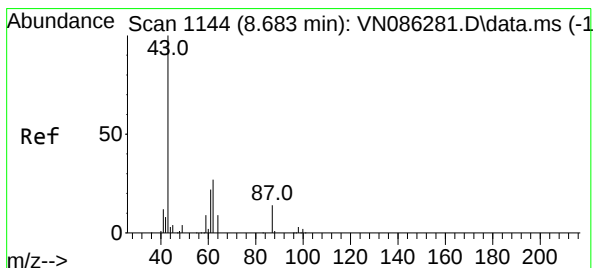
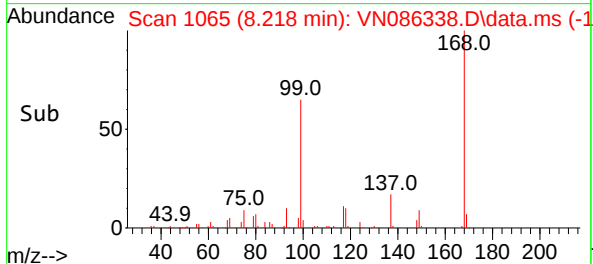
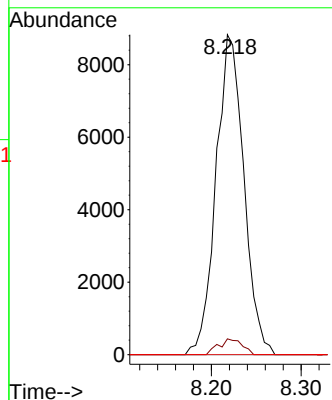


#38
Carbon Tetrachloride
Concen: 6.012 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.141 min
Lab File: VN086338.D
Acq: 18 Apr 2025 12:55

Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#03

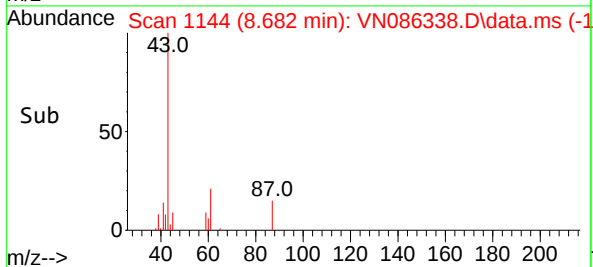
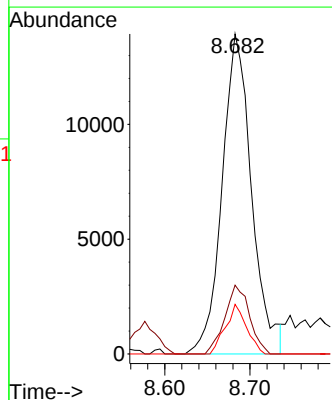
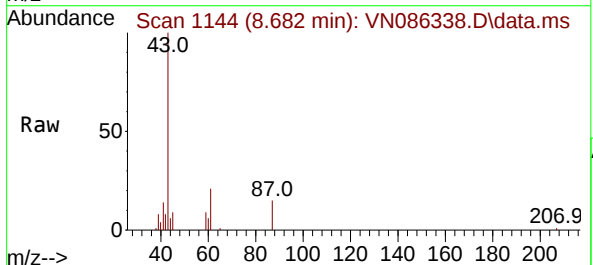


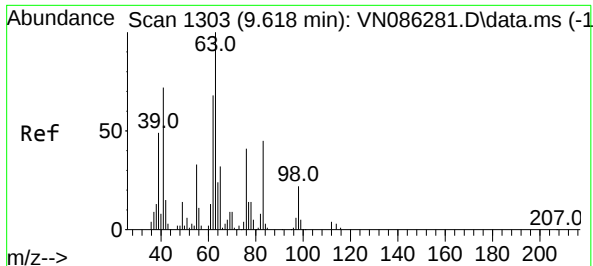
Tgt Ion: 117 Resp: 19003
Ion Ratio Lower Upper
117 100
119 4.9 76.8 115.2#
121 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 3.540 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.001 min
Lab File: VN086338.D
Acq: 18 Apr 2025 12:55

Tgt Ion: 43 Resp: 33485
Ion Ratio Lower Upper
43 100
61 18.0 20.5 30.7#
87 11.1 10.5 15.7





#45

1,2-Dichloropropane

Concen: 0.511 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.118 min

Lab File: VN086338.D

Acq: 18 Apr 2025 12:55

Instrument :

MSVOA_N

ClientSampleId :

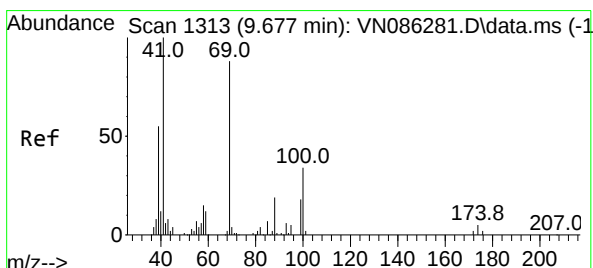
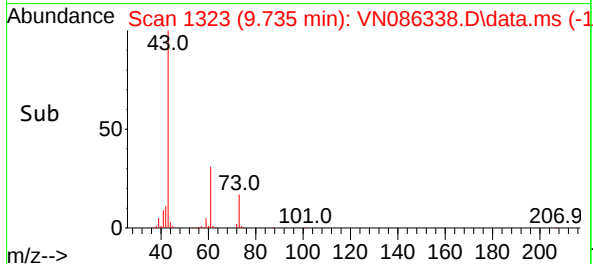
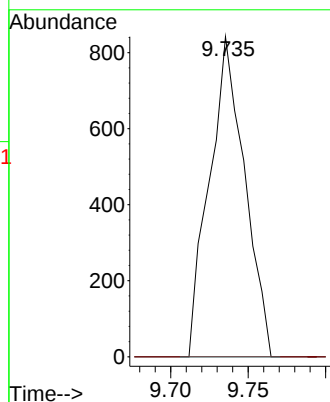
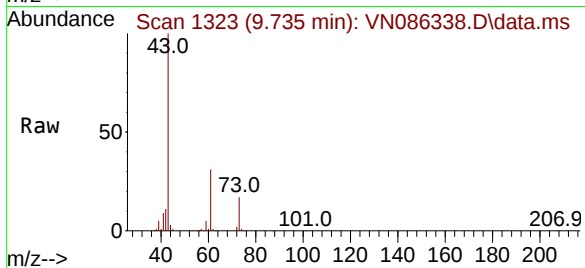
PB167623ZHE#03

Tgt Ion: 63 Resp: 1330

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 28.176 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.059 min

Lab File: VN086338.D

Acq: 18 Apr 2025 12:55

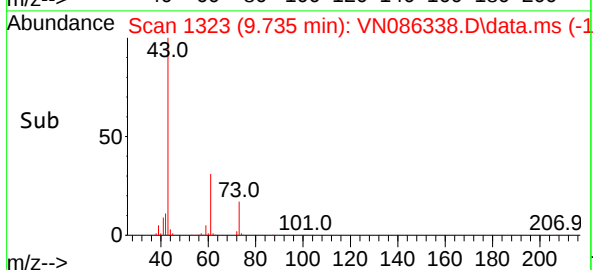
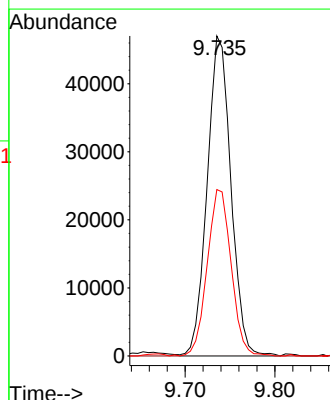
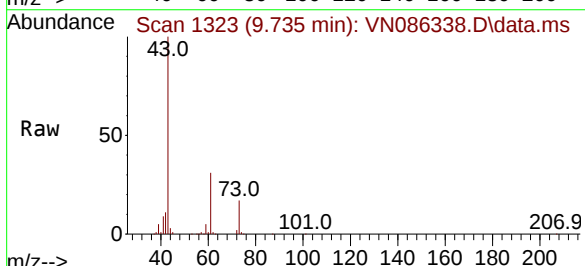
Tgt Ion: 41 Resp: 86454

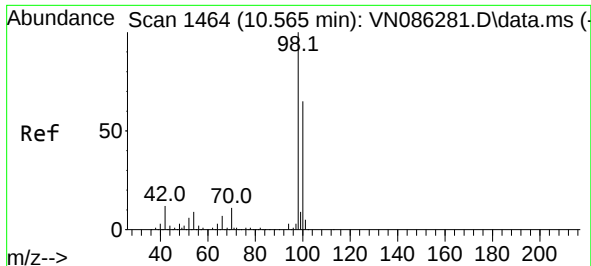
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 52.4 45.2 67.8

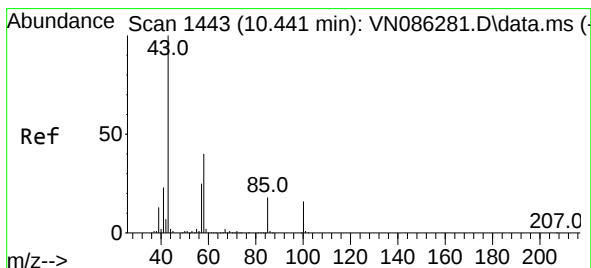
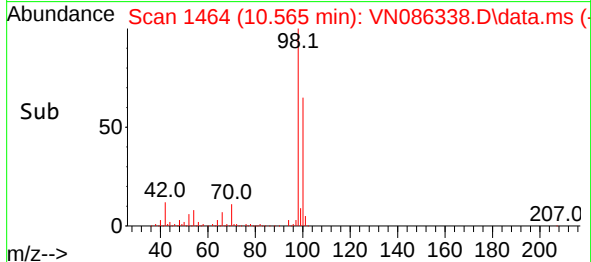
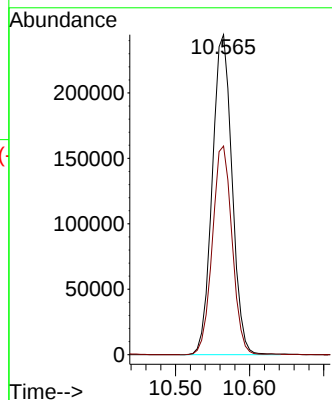
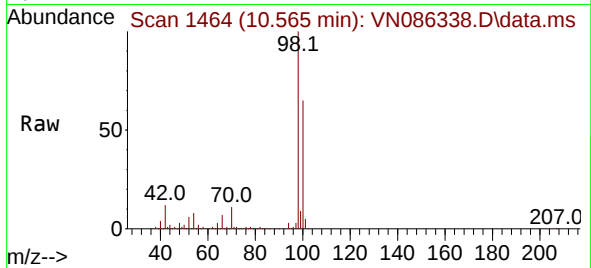




#50
Toluene-d8
Concen: 50.987 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086338.D
Acq: 18 Apr 2025 12:55

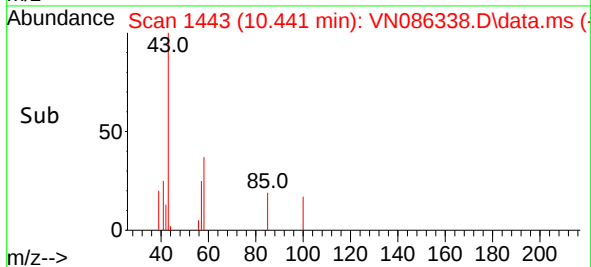
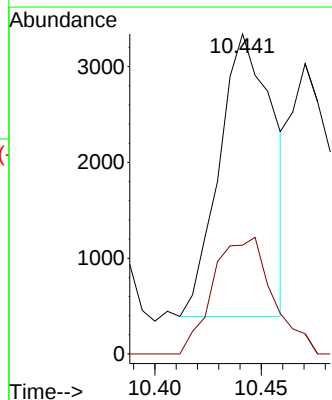
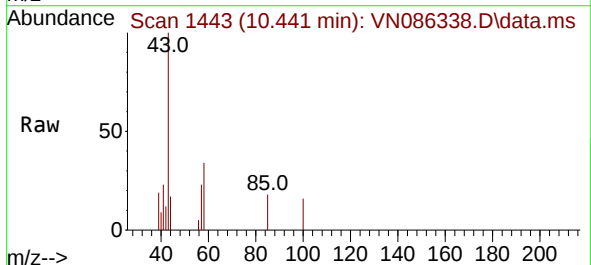
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#03

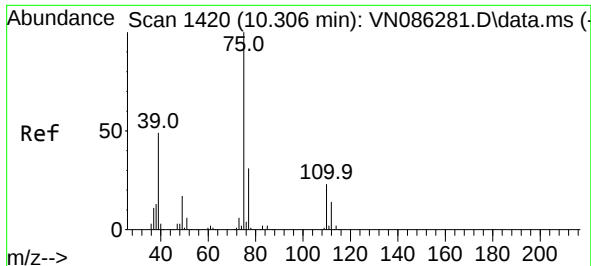
Tgt Ion: 98 Resp: 452790
Ion Ratio Lower Upper
98 100
100 65.0 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 1.453 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086338.D
Acq: 18 Apr 2025 12:55

Tgt Ion: 43 Resp: 5197
Ion Ratio Lower Upper
43 100
58 45.4 32.2 48.4

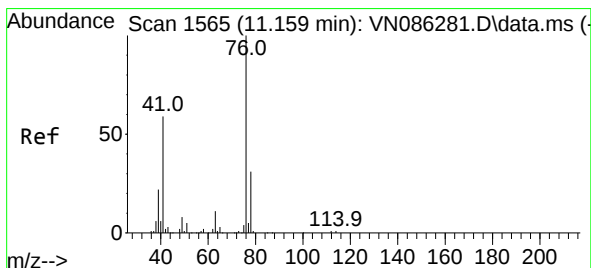
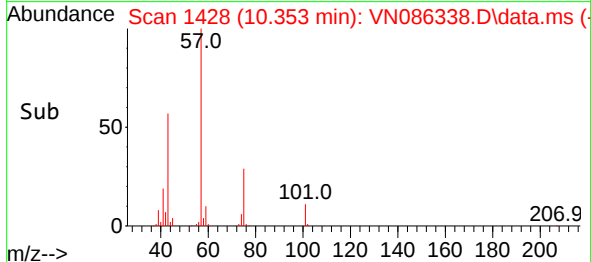
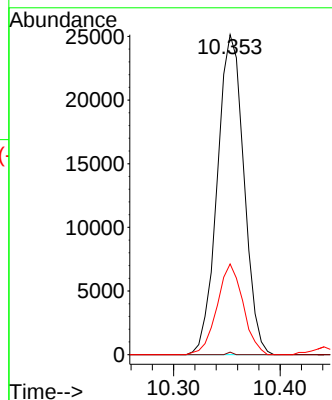
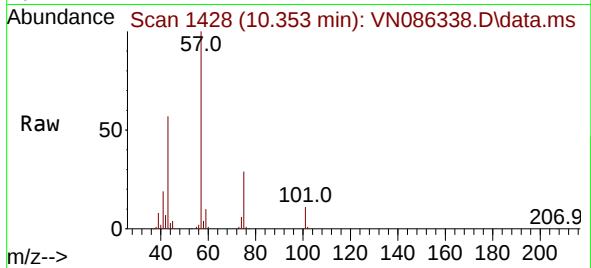




#54
cis-1,3-Dichloropropene
Concen: 9.927 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN086338.D
Acq: 18 Apr 2025 12:55

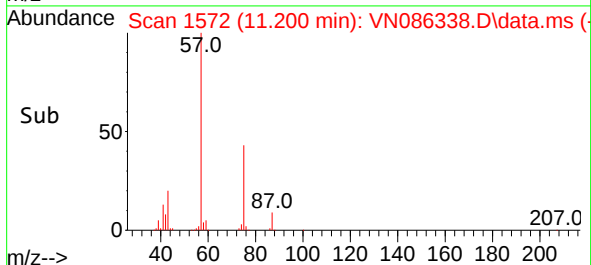
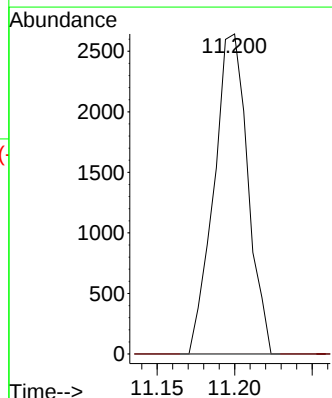
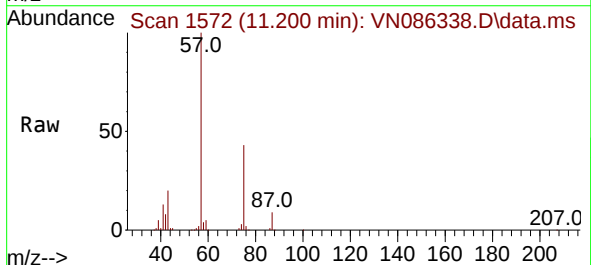
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#03

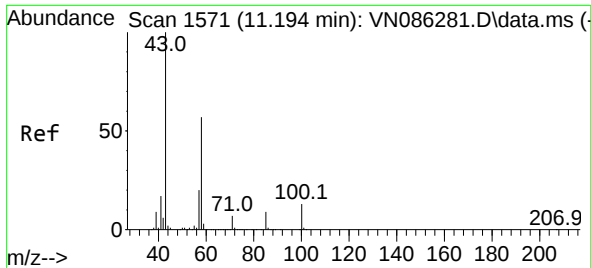
Tgt Ion: 75 Resp: 43596
Ion Ratio Lower Upper
75 100
77 0.8 25.2 37.8#
39 28.4 39.3 58.9#



#57
1,3-Dichloropropane
Concen: 0.947 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN086338.D
Acq: 18 Apr 2025 12:55

Tgt Ion: 76 Resp: 4013
Ion Ratio Lower Upper
76 100
78 0.0 25.6 38.4#

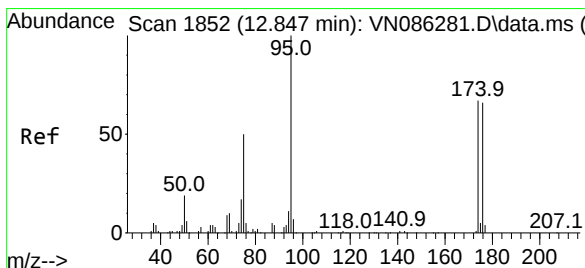
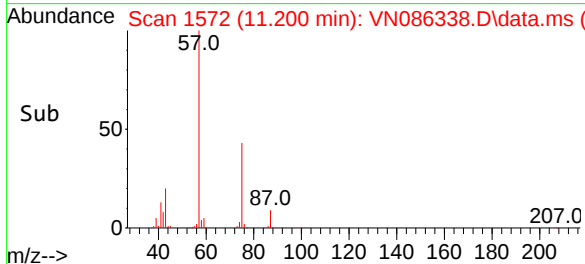
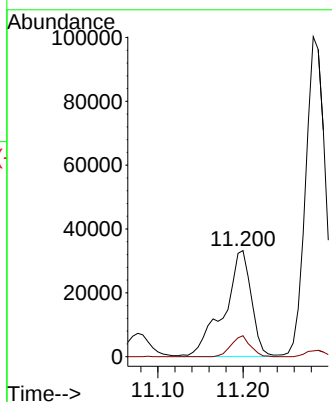
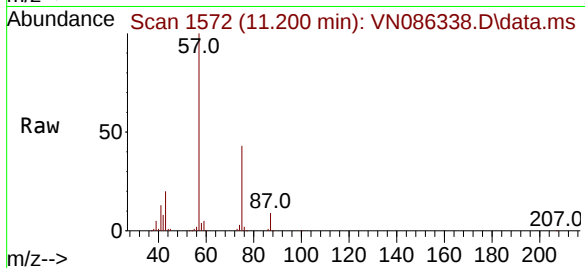




#59
2-Hexanone
Concen: 27.736 ug/l
RT: 11.200 min Scan# 1157
Delta R.T. 0.006 min
Lab File: VN086338.D
Acq: 18 Apr 2025 12:55

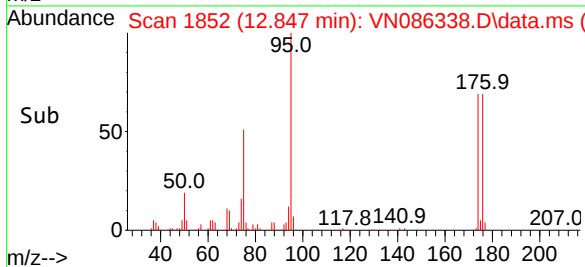
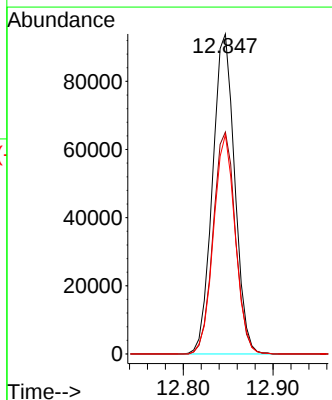
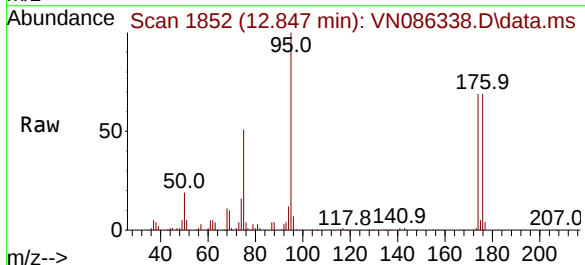
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#03

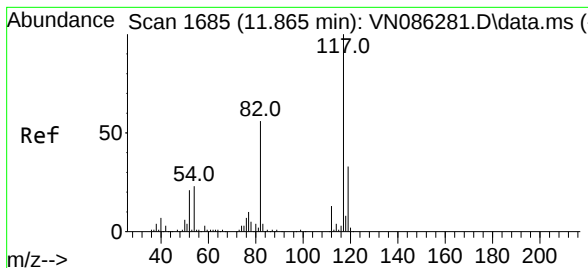
Tgt Ion: 43 Resp: 73609
Ion Ratio Lower Upper
43 100
58 13.9 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 49.671 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086338.D
Acq: 18 Apr 2025 12:55

Tgt Ion: 95 Resp: 160891
Ion Ratio Lower Upper
95 100
174 69.7 0.0 133.4
176 67.1 0.0 129.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086338.D

Acq: 18 Apr 2025 12:55

Instrument :

MSVOA_N

ClientSampleId :

PB167623ZHE#03

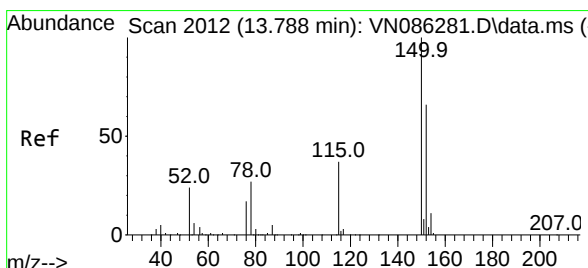
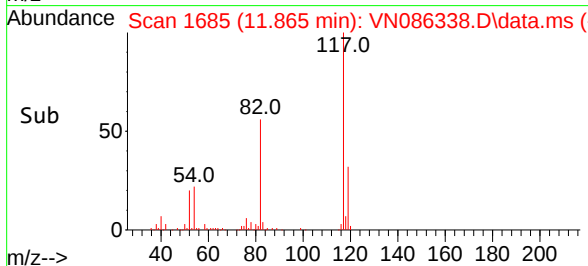
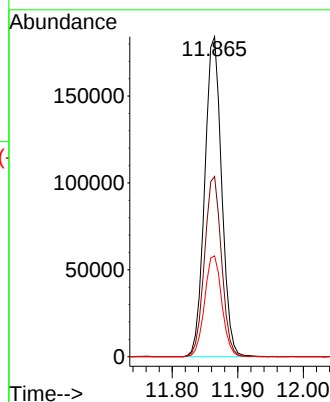
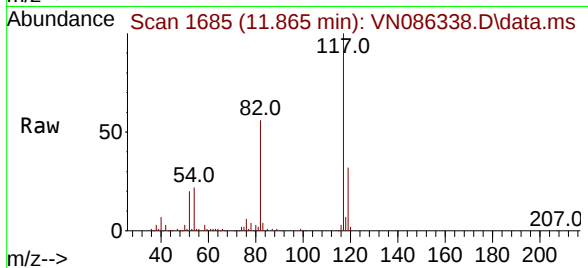
Tgt Ion:117 Resp: 330716

Ion Ratio Lower Upper

117 100

82 56.3 44.7 67.1

119 31.5 26.4 39.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN086338.D

Acq: 18 Apr 2025 12:55

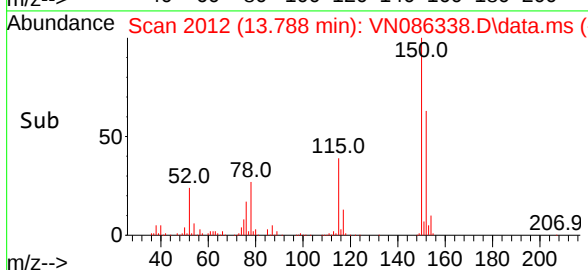
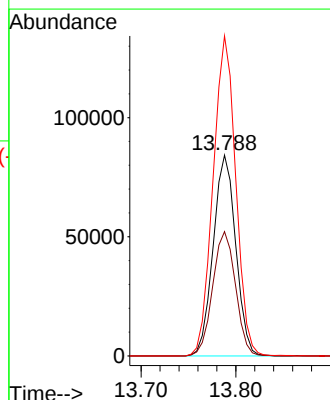
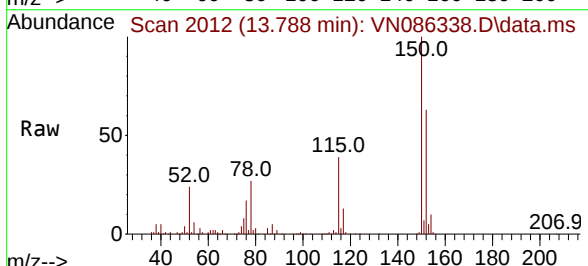
Tgt Ion:152 Resp: 139483

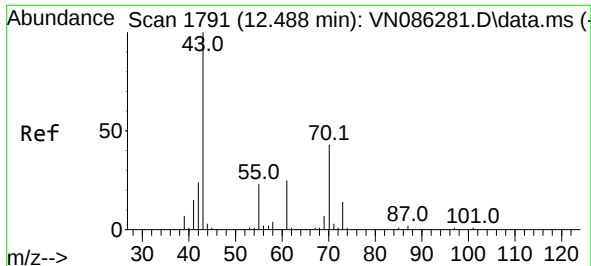
Ion Ratio Lower Upper

152 100

115 62.6 31.9 95.9

150 160.0 0.0 352.0

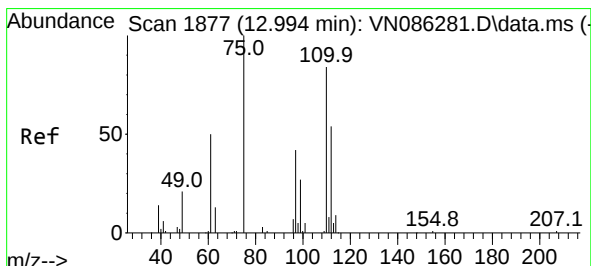
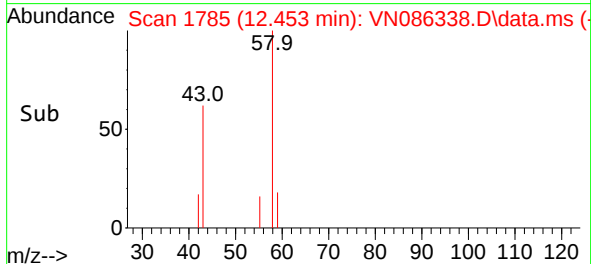
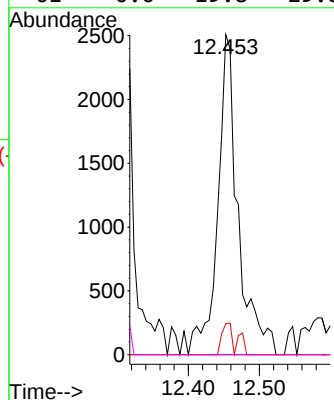
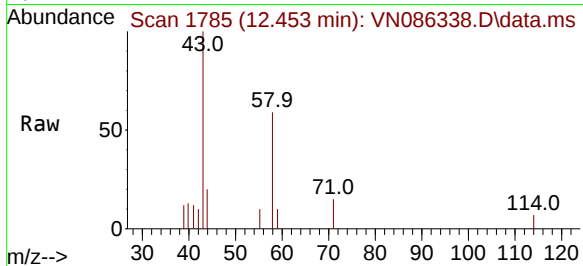




#74
N-amy1 acetate
Concen: 0.891 ug/l
RT: 12.453 min Scan# 11
Delta R.T. -0.035 min
Lab File: VN086338.D
Acq: 18 Apr 2025 12:55

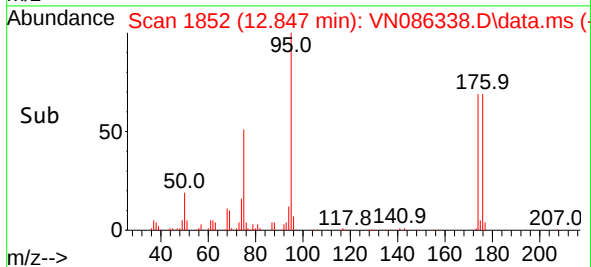
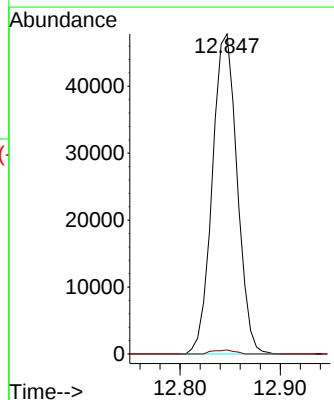
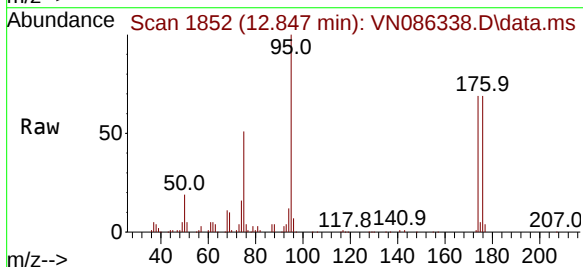
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#03

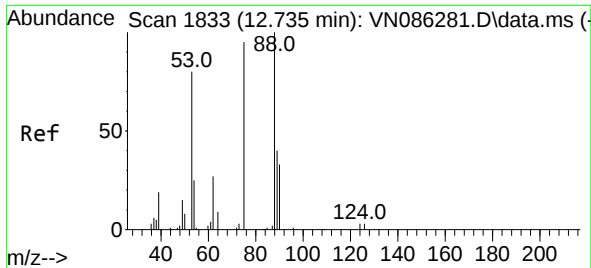
Tgt Ion: 43	Resp: 5059
Ion Ratio	Lower Upper
43 100	
70 0.0	35.0 52.4#
55 4.6	19.0 28.4#
61 0.0	19.8 29.8#



#76
1,2,3-Trichloropropane
Concen: 25.001 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086338.D
Acq: 18 Apr 2025 12:55

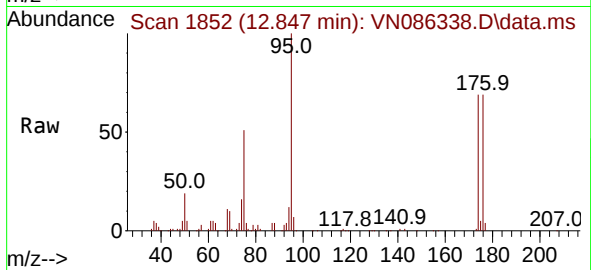
Tgt Ion: 75	Resp:	82292	
Ion Ratio	Lower	Upper	
75 100			
77 1.1	98.8	296.4#	





#81
 trans-1,4-Dichloro-2-butene
 Concen: 60.042 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086338.D
 Acq: 18 Apr 2025 12:55

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167623ZHE#03



Tgt Ion: 75 Resp: 82292
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.2 118.8#
 89 0.0 35.7 53.5#

