

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041425\
 Data File : VN086263.D
 Acq On : 14 Apr 2025 12:50
 Operator : JC\MD
 Sample : PB167573ZHE#03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167573ZHE#03

Quant Time: Apr 15 03:08:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

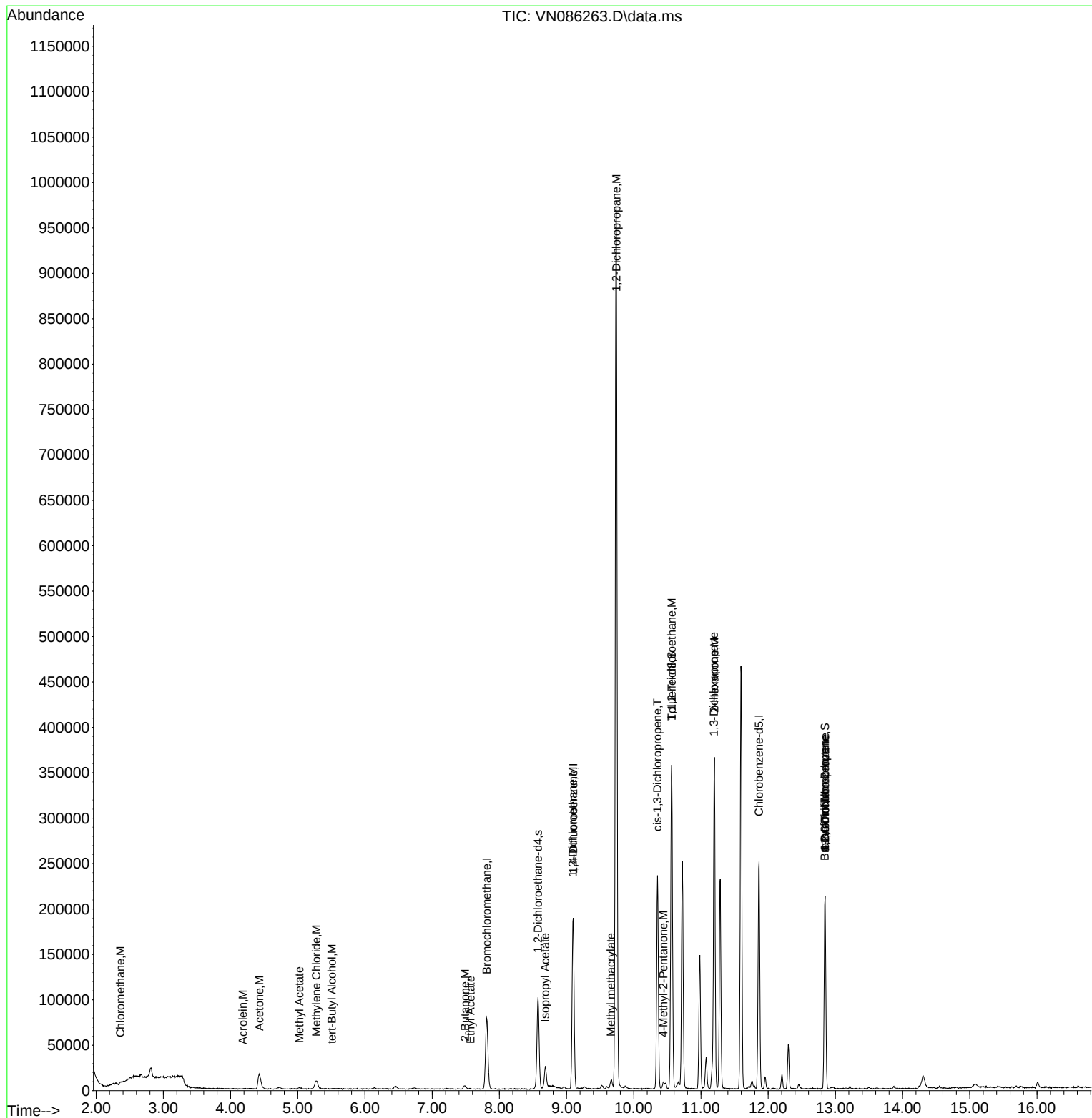
Internal Standards						
1) Bromochloromethane	7.812	128	28271	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	167984	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	146294	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	82830	30.038	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.133%
60) 4-Bromofluorobenzene	12.847	95	81102	27.845	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	92.800%
63) Toluene-d8	10.565	98	249489	30.208	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.700%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	839	0.268	ug/l #	42
12) Methyl Acetate	5.024	43	1381	0.454	ug/l #	85
13) Acrolein	4.183	56	237	0.686	ug/l #	1
15) Acetone	4.430	58	9980	30.670	ug/l	83
18) Methylene Chloride	5.277	84	7538	3.071	ug/l #	91
23) tert-Butyl Alcohol	5.506	59	120	0.226	ug/l #	100
30) 2-Butanone	7.488	43	6367	3.818	ug/l #	60
36) 1,2-Dichloroethane	9.094	62	5749	1.919	ug/l #	72
39) 1,2-Dichloropropane	9.741	63	1211	0.508	ug/l #	42
43) Ethyl Acetate	7.571	43	747	0.222	ug/l #	85
44) Isopropyl Acetate	8.682	43	29665	4.754	ug/l #	85
46) Methyl methacrylate	9.659	41	743	0.270	ug/l #	22
49) cis-1,3-Dichloropropene	10.353	75	44756	11.317	ug/l #	60
50) 1,1,2-Trichloroethane	10.565	97	7731	3.583	ug/l #	1
52) 1,3-Dichloropropane	11.194	76	3855	1.002	ug/l #	42
56) Bromoform	12.841	173	309	0.200	ug/l #	35
58) 4-Methyl-2-Pentanone	10.441	43	5193	1.564	ug/l #	94
59) 2-Hexanone	11.200	43	69371	28.062	ug/l #	1
72) 1,2,3-Trichloropropane	12.847	75	41370	14.229	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	41370	30.858	ug/l #	12

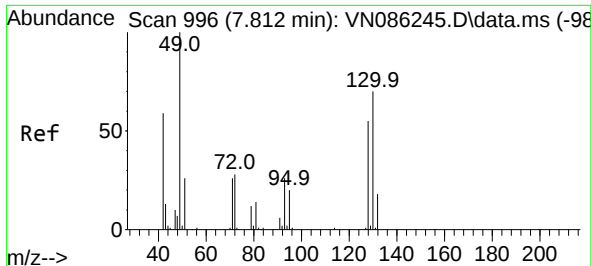
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 15 03:08:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Apr 12 01:21:52 2025
Response via : Initial Calibration

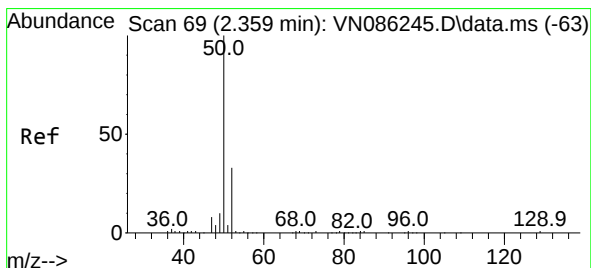
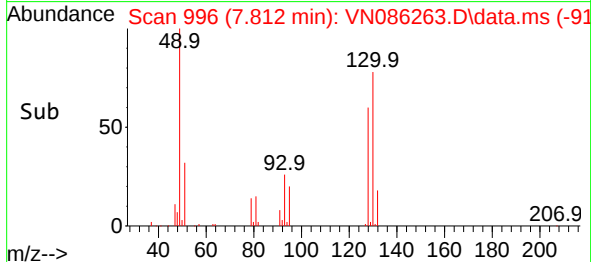
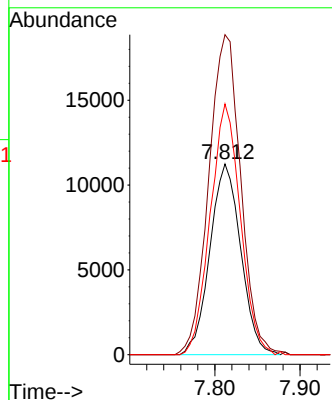
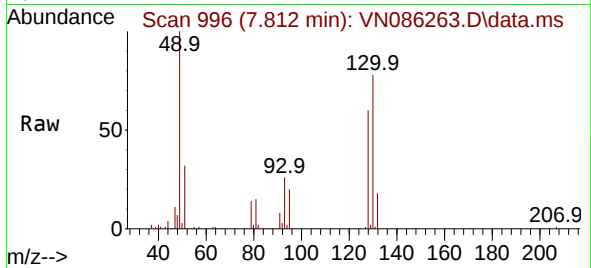




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN086263.D
Acq: 14 Apr 2025 12:50

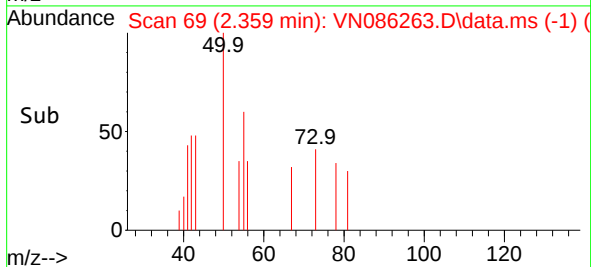
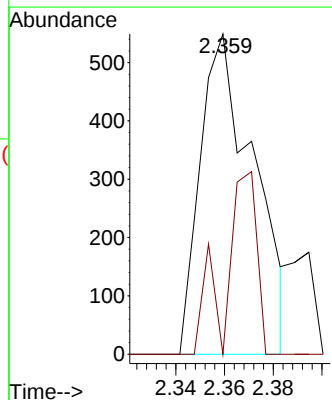
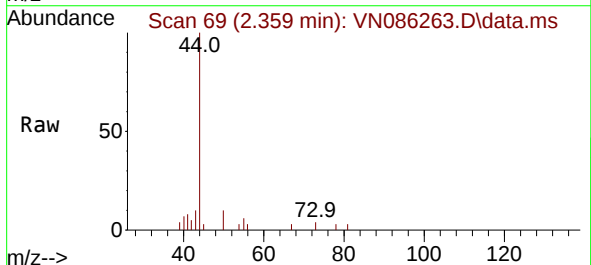
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#03

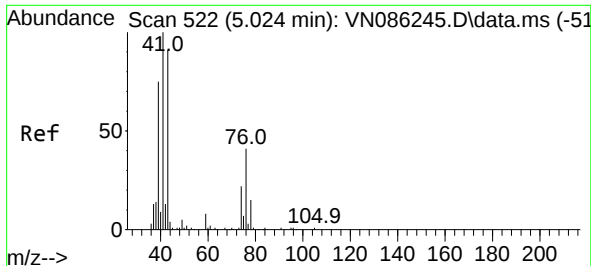
Tgt Ion:128 Resp: 28271
Ion Ratio Lower Upper
128 100
49 173.9 0.0 452.5
130 128.8 0.0 315.0



#3
Chloromethane
Concen: 0.268 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086263.D
Acq: 14 Apr 2025 12:50

Tgt Ion: 50 Resp: 839
Ion Ratio Lower Upper
50 100
52 0.0 26.4 39.6#

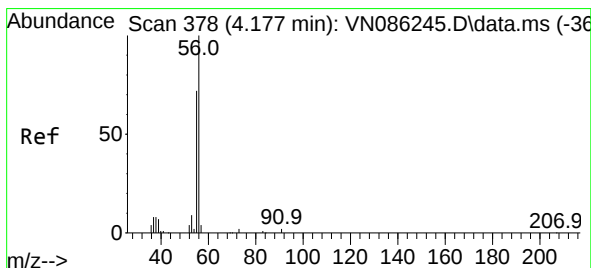
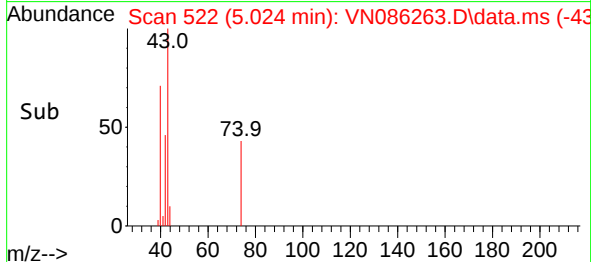
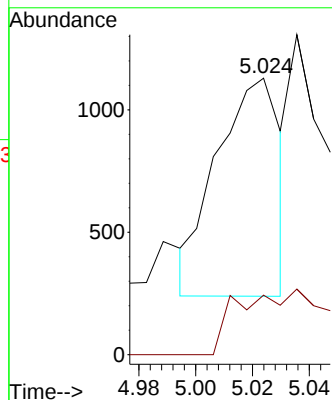
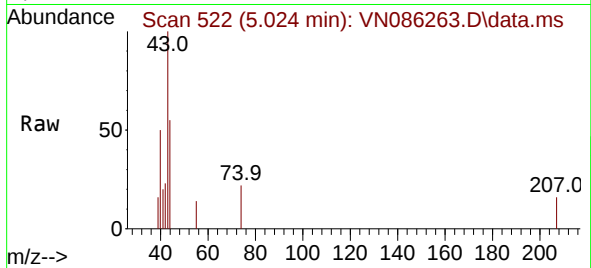




#12
Methyl Acetate
Concen: 0.454 ug/l
RT: 5.024 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN086263.D
Acq: 14 Apr 2025 12:50

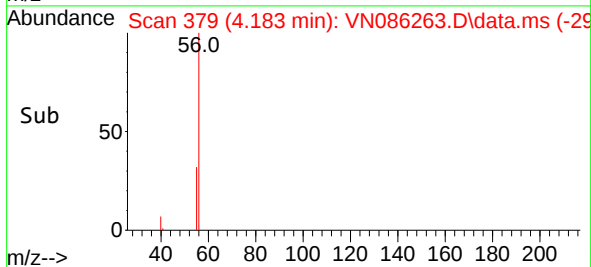
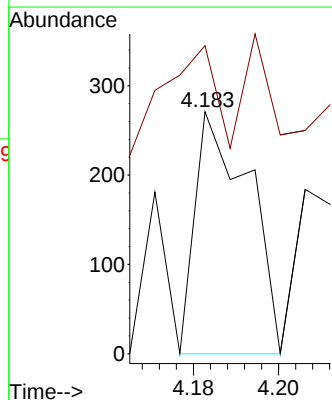
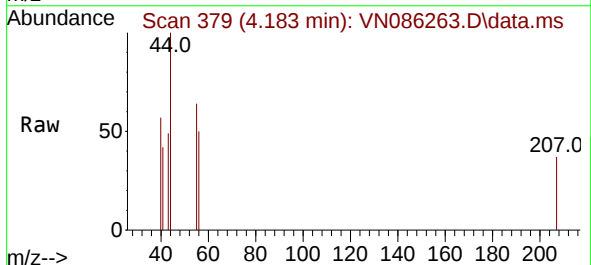
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#03

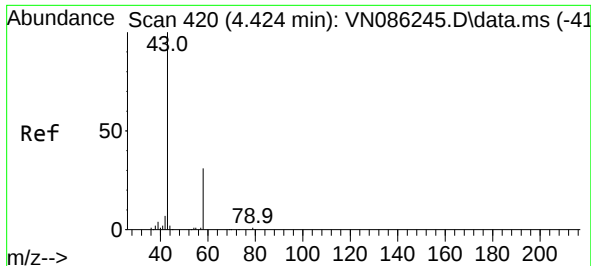
Tgt Ion: 43 Resp: 1381
Ion Ratio Lower Upper
43 100
74 31.2 19.1 28.7#



#13
Acrolein
Concen: 0.686 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.006 min
Lab File: VN086263.D
Acq: 14 Apr 2025 12:50

Tgt Ion: 56 Resp: 237
Ion Ratio Lower Upper
56 100
55 181.9 56.5 84.7#

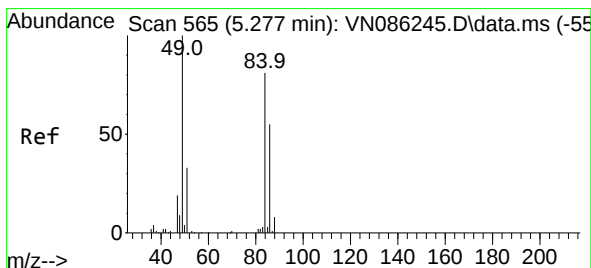
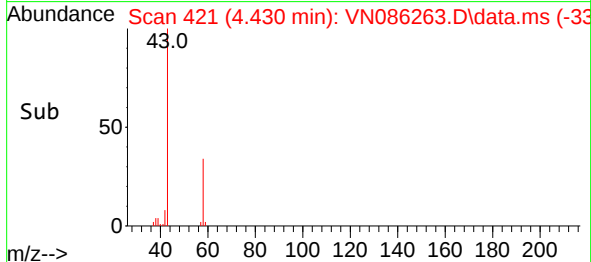
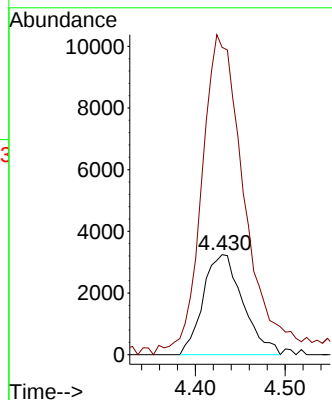
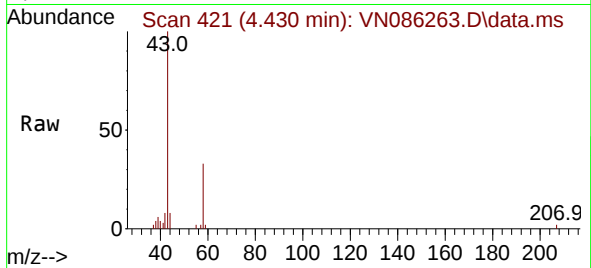




#15
Acetone
Concen: 30.670 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086263.D
Acq: 14 Apr 2025 12:50

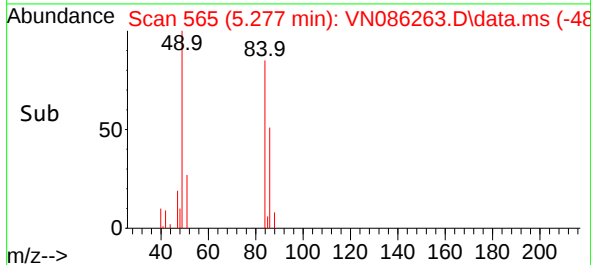
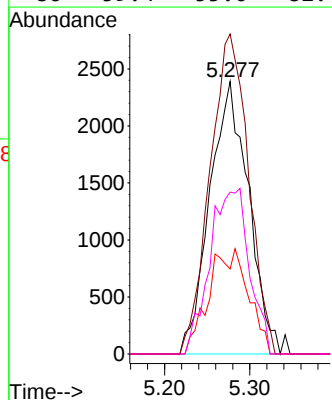
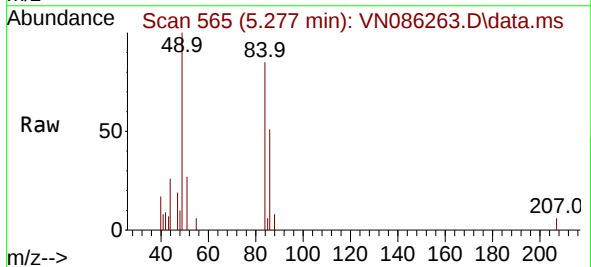
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#03

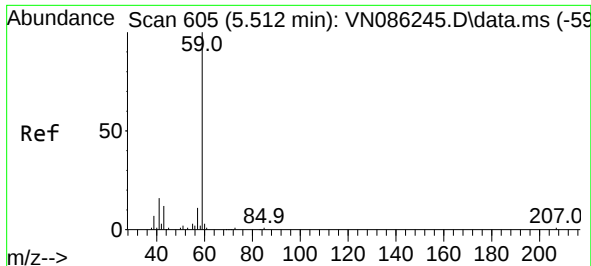
Tgt Ion: 58 Resp: 9980
Ion Ratio Lower Upper
58 100
43 291.2 261.8 392.8



#18
Methylene Chloride
Concen: 3.071 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN086263.D
Acq: 14 Apr 2025 12:50

Tgt Ion: 84 Resp: 7538
Ion Ratio Lower Upper
84 100
49 117.4 99.1 148.7
51 31.2 32.3 48.5#
86 59.4 55.0 82.4

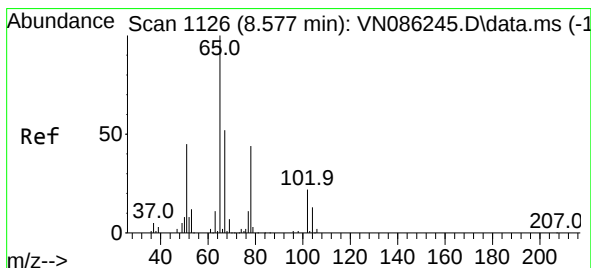
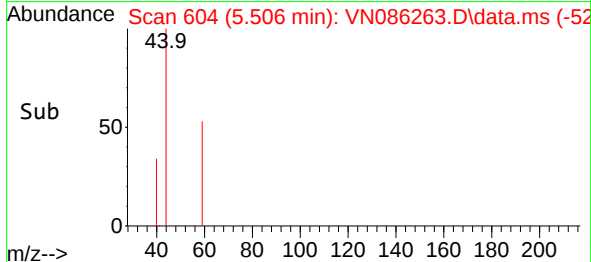
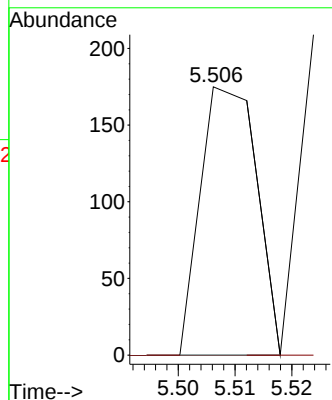
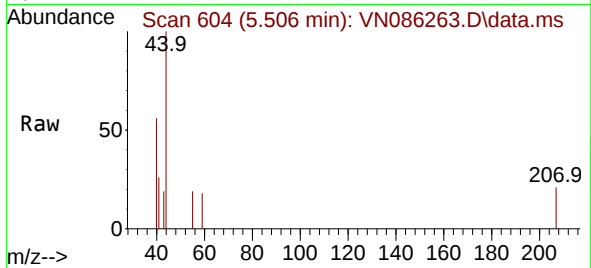




#23
tert-Butyl Alcohol
Concen: 0.226 ug/l
RT: 5.506 min Scan# 605
Delta R.T. -0.006 min
Lab File: VN086263.D
Acq: 14 Apr 2025 12:50

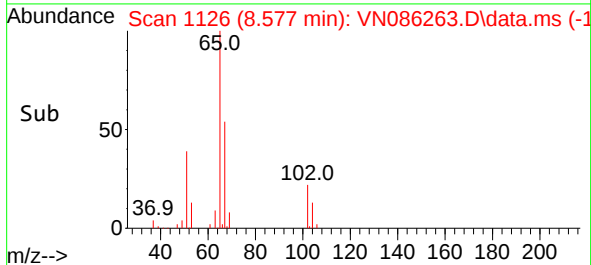
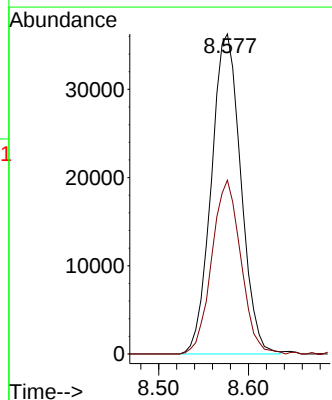
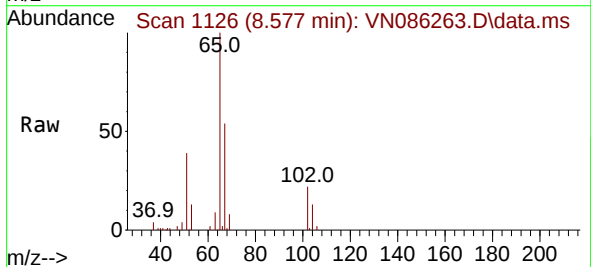
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#03

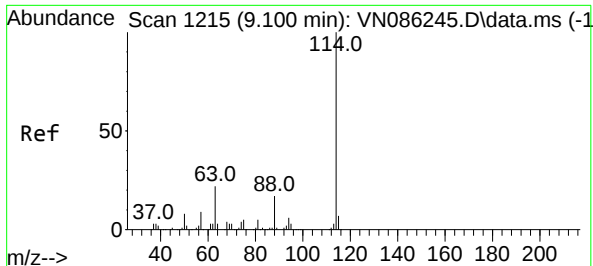
Tgt Ion: 59 Resp: 120
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#27
1,2-Dichloroethane-d4
Concen: 30.038 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086263.D
Acq: 14 Apr 2025 12:50

Tgt Ion: 65 Resp: 82830
Ion Ratio Lower Upper
65 100
67 53.4 43.4 65.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086263.D

Acq: 14 Apr 2025 12:50

Instrument :

MSVOA_N

ClientSampleId :

PB167573ZHE#03

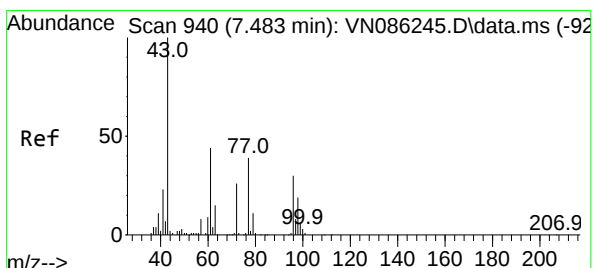
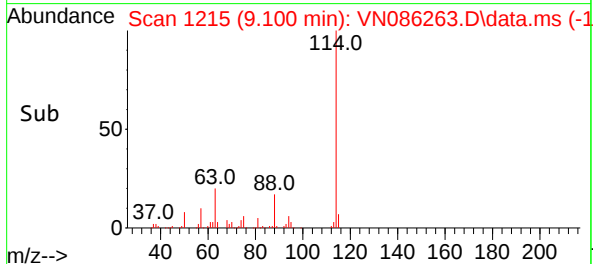
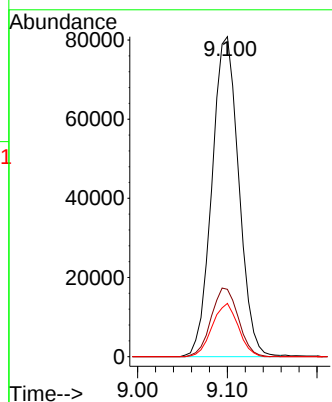
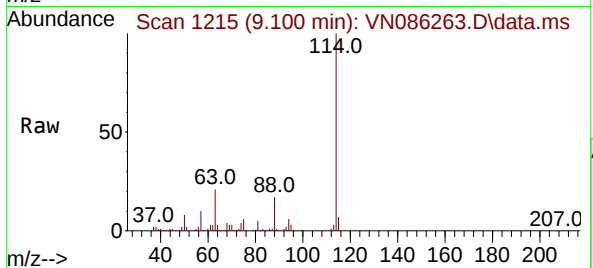
Tgt Ion:114 Resp: 167984

Ion Ratio Lower Upper

114 100

63 21.7 17.8 26.6

88 16.2 13.4 20.2



#30

2-Butanone

Concen: 3.818 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN086263.D

Acq: 14 Apr 2025 12:50

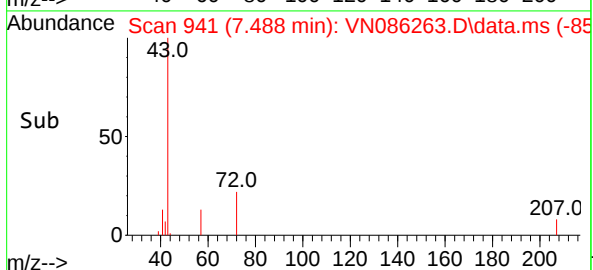
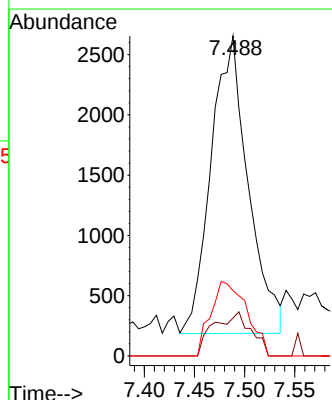
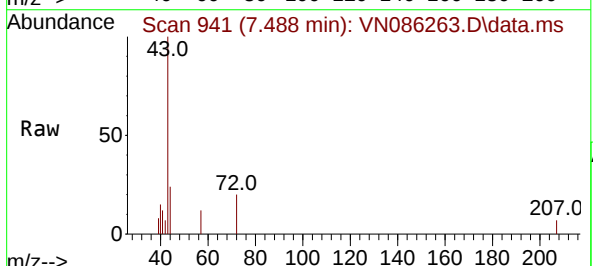
Tgt Ion: 43 Resp: 6367

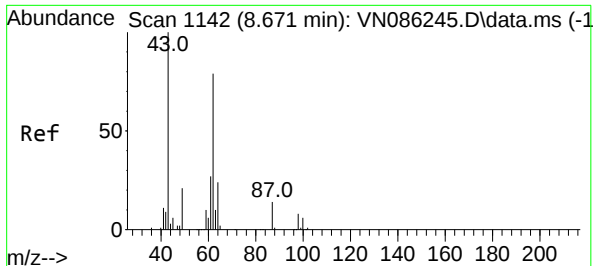
Ion Ratio Lower Upper

43 100

57 8.0 6.4 9.6

72 0.0 21.5 32.3#





#36

1,2-Dichloroethane

Concen: 1.919 ug/l

RT: 9.094 min Scan# 1142

Delta R.T. 0.423 min

Lab File: VN086263.D

Acq: 14 Apr 2025 12:50

Instrument :

MSVOA_N

ClientSampleId :

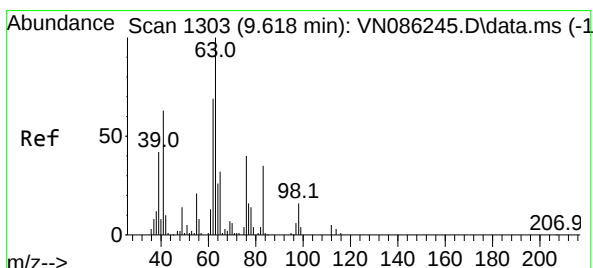
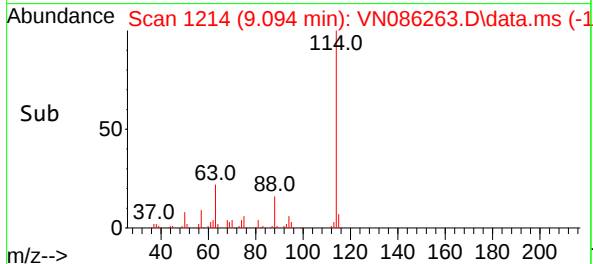
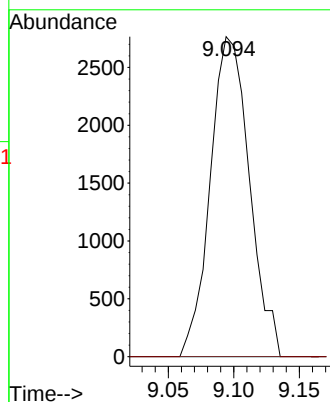
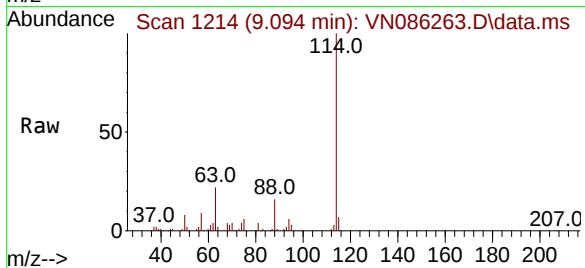
PB167573ZHE#03

Tgt Ion: 62 Resp: 5749

Ion Ratio Lower Upper

62 100

98 0.0 8.6 12.8#



#39

1,2-Dichloropropane

Concen: 0.508 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.123 min

Lab File: VN086263.D

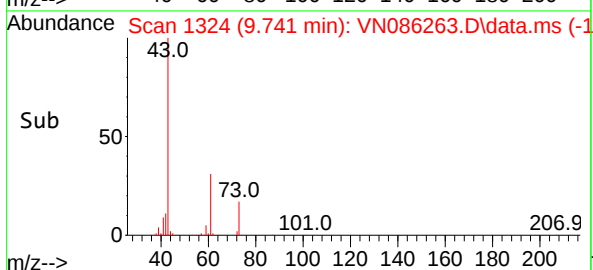
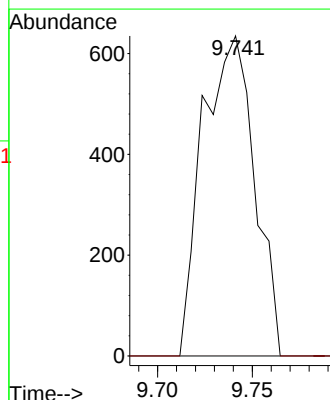
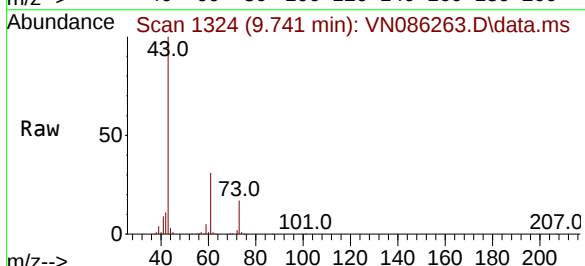
Acq: 14 Apr 2025 12:50

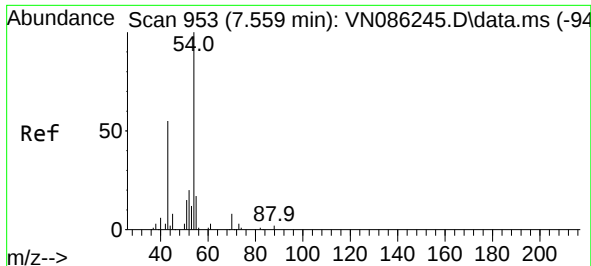
Tgt Ion: 63 Resp: 1211

Ion Ratio Lower Upper

63 100

65 0.0 26.0 39.0#

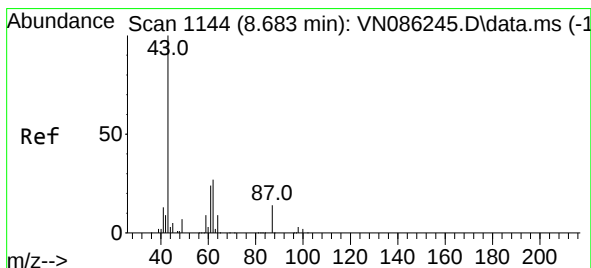
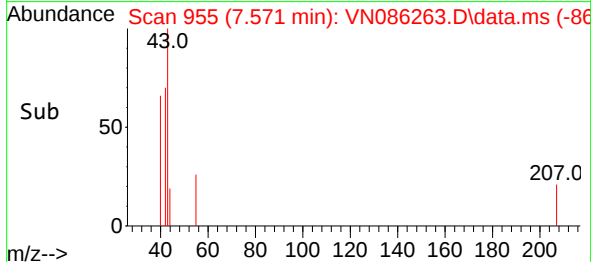
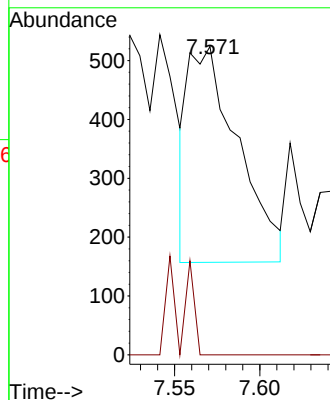
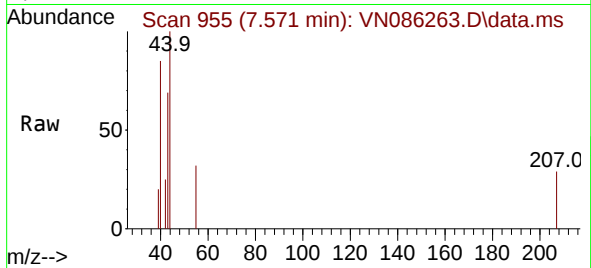




#43
Ethyl Acetate
Concen: 0.222 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN086263.D
Acq: 14 Apr 2025 12:50

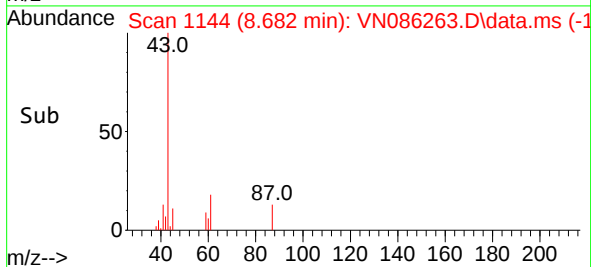
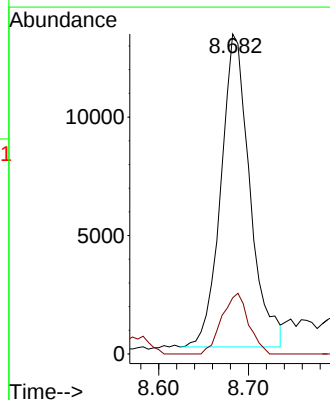
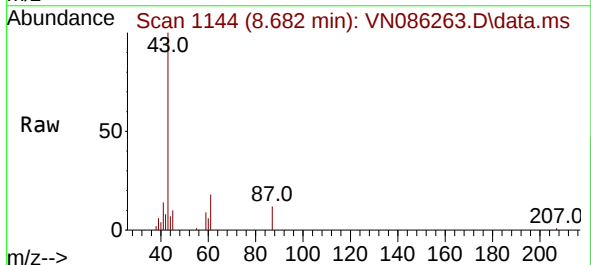
Instrument :
MSVOA_N
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PB167573ZHE#03

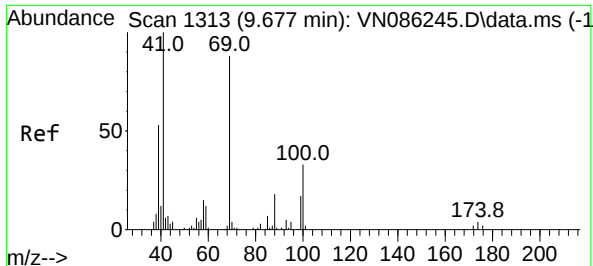
Tgt Ion: 43 Resp: 747
Ion Ratio Lower Upper
43 100
45 7.9 11.2 16.8#



#44
Isopropyl Acetate
Concen: 4.754 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086263.D
Acq: 14 Apr 2025 12:50

Tgt Ion: 43 Resp: 29665
Ion Ratio Lower Upper
43 100
61 17.9 20.5 30.7#





#46

Methyl methacrylate

Concen: 0.270 ug/l

RT: 9.659 min Scan# 11

Delta R.T. -0.018 min

Lab File: VN086263.D

Acq: 14 Apr 2025 12:50

Instrument :

MSVOA_N

ClientSampleId :

PB167573ZHE#03

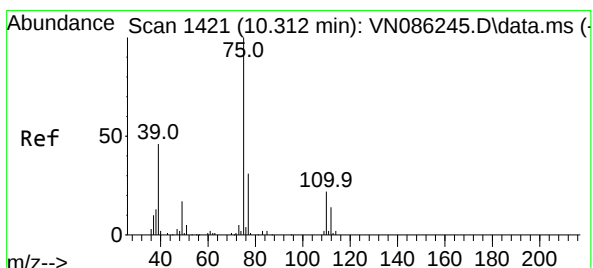
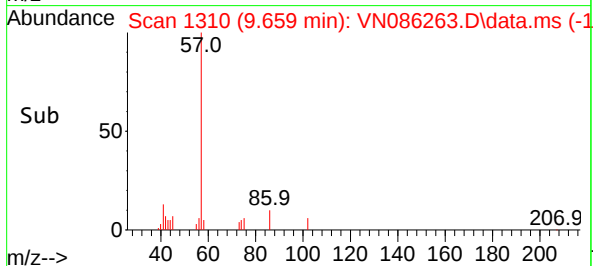
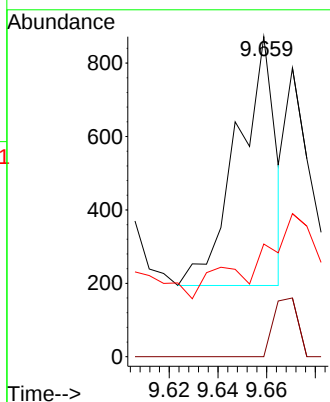
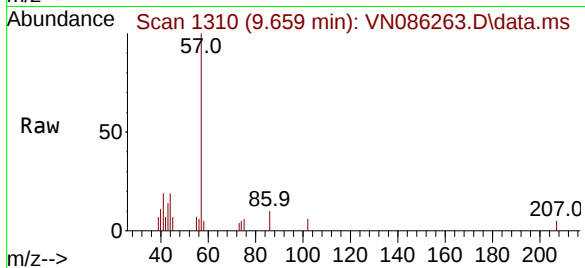
Tgt Ion: 41 Resp: 743

Ion Ratio Lower Upper

41 100

69 0.0 43.2 129.6#

39 15.6 26.4 79.0#



#49

cis-1,3-Dichloropropene

Concen: 11.317 ug/l

RT: 10.353 min Scan# 1428

Delta R.T. 0.041 min

Lab File: VN086263.D

Acq: 14 Apr 2025 12:50

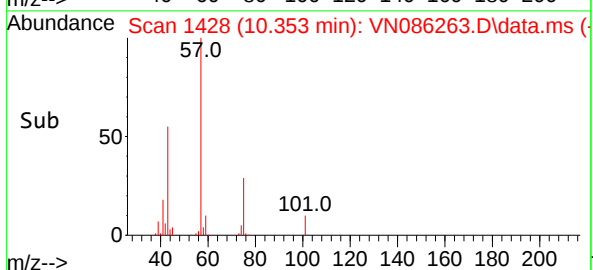
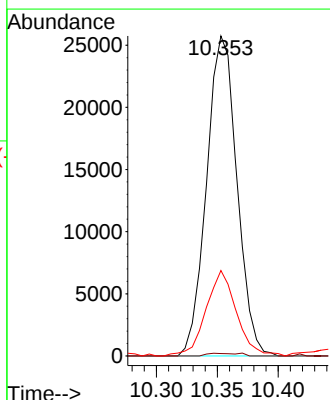
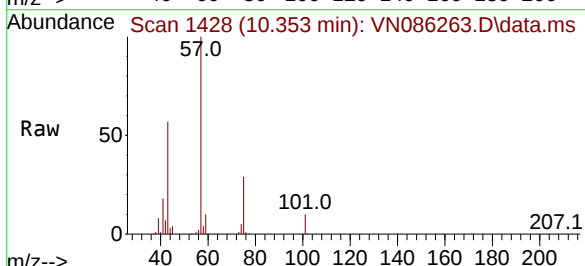
Tgt Ion: 75 Resp: 44756

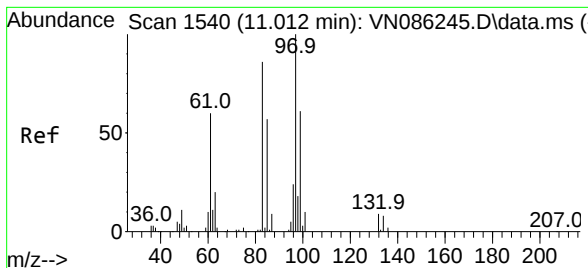
Ion Ratio Lower Upper

75 100

77 0.8 25.0 37.4#

39 26.0 36.7 55.1#





#50

1,1,2-Trichloroethane

Concen: 3.583 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.447 min

Lab File: VN086263.D

Acq: 14 Apr 2025 12:50

Instrument :

MSVOA_N

ClientSampleId :

PB167573ZHE#03

Tgt Ion: 97 Resp: 7731

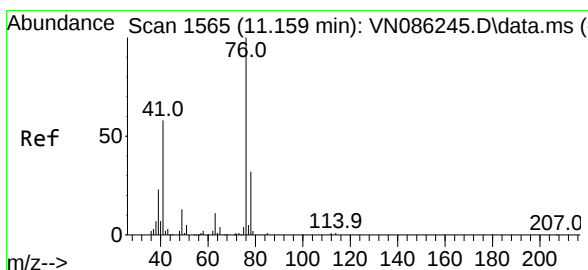
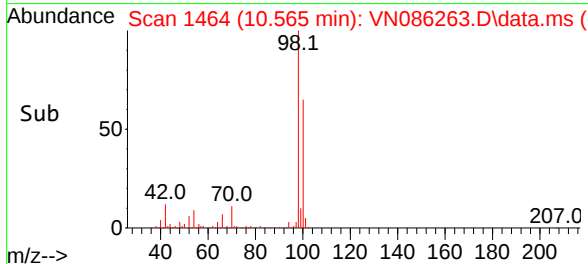
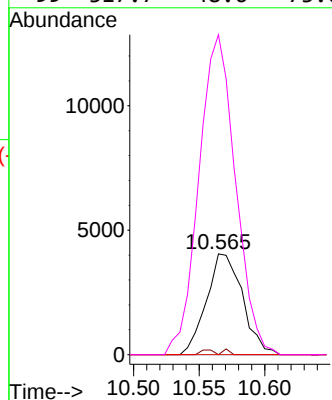
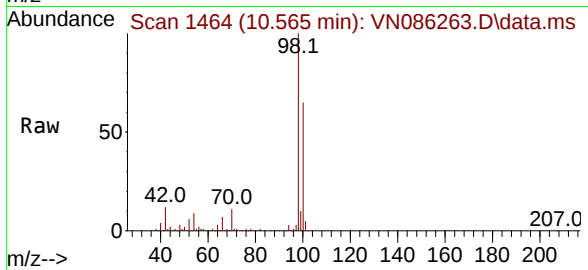
Ion Ratio Lower Upper

97 100

83 0.0 68.6 103.0#

85 0.0 45.9 68.9#

99 317.7 48.6 73.0#



#52

1,3-Dichloropropane

Concen: 1.002 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.035 min

Lab File: VN086263.D

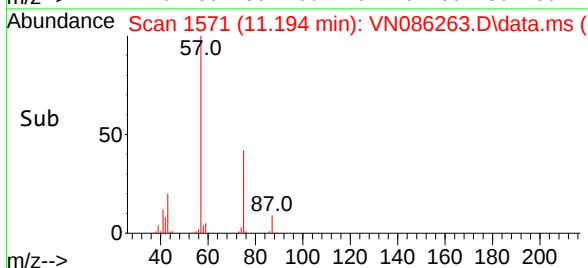
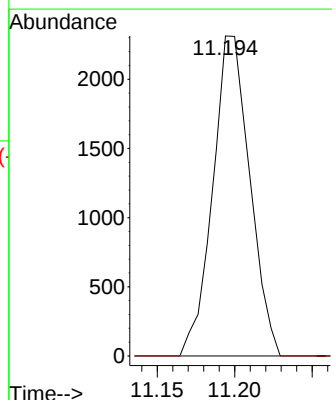
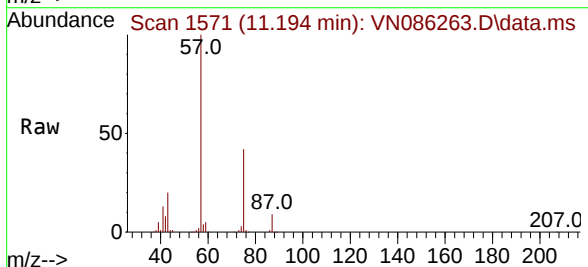
Acq: 14 Apr 2025 12:50

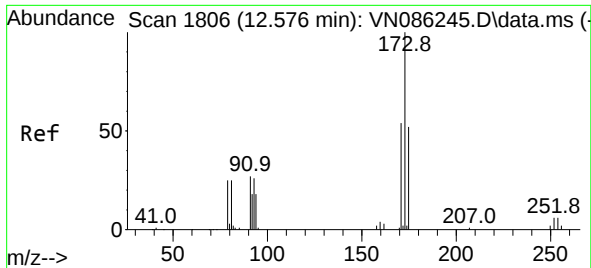
Tgt Ion: 76 Resp: 3855

Ion Ratio Lower Upper

76 100

78 0.0 0.0 64.6

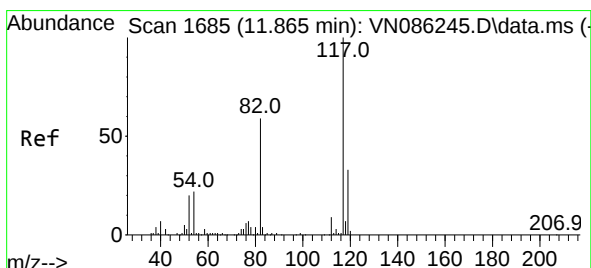
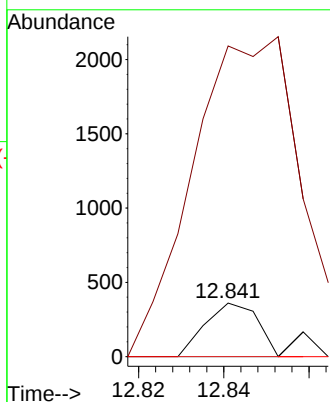
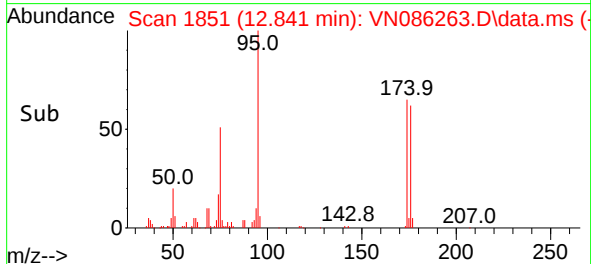
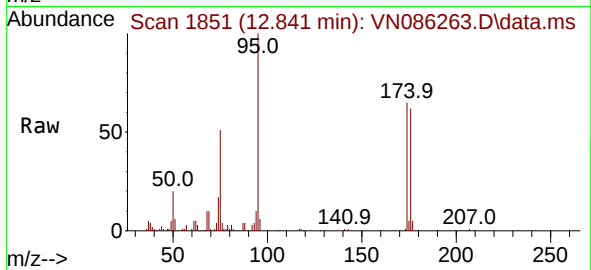




#56
Bromoform
Concen: 0.200 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.265 min
Lab File: VN086263.D
Acq: 14 Apr 2025 12:50

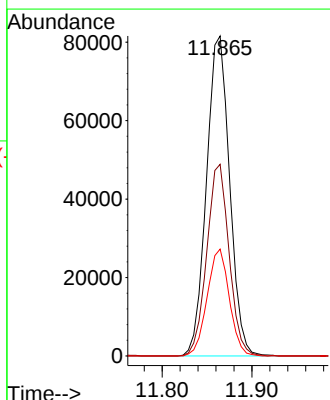
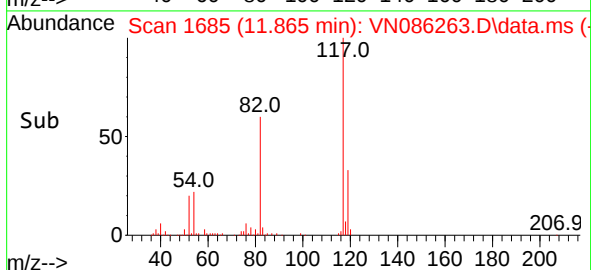
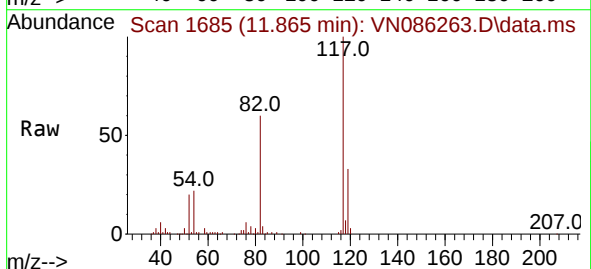
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#03

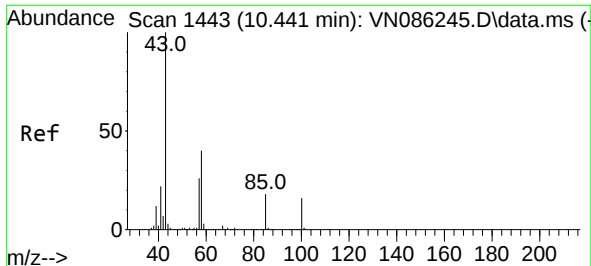
Tgt Ion:173 Resp: 309
Ion Ratio Lower Upper
173 100
175 0.0 38.2 57.4#
254 0.0 4.5 6.7#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086263.D
Acq: 14 Apr 2025 12:50

Tgt Ion:117 Resp: 146294
Ion Ratio Lower Upper
117 100
82 57.8 47.3 70.9
119 32.1 25.9 38.9

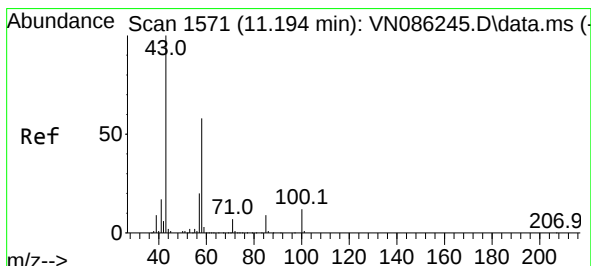
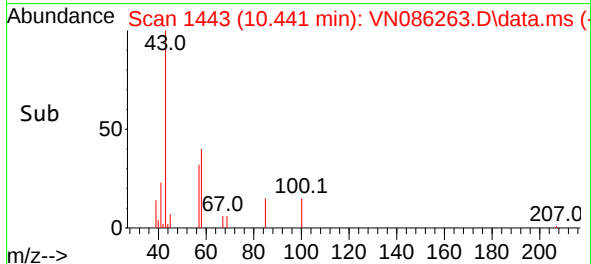
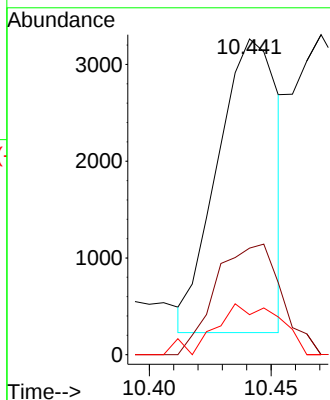
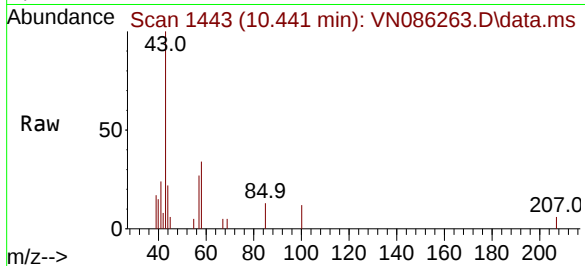




#58
4-Methyl-2-Pentanone
Concen: 1.564 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086263.D
Acq: 14 Apr 2025 12:50

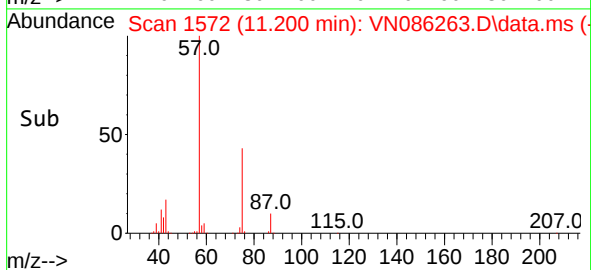
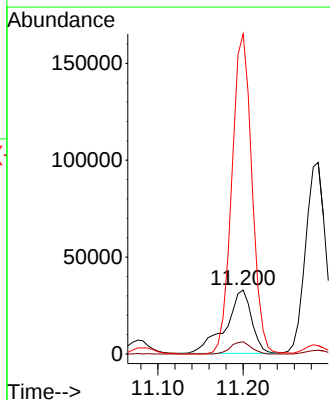
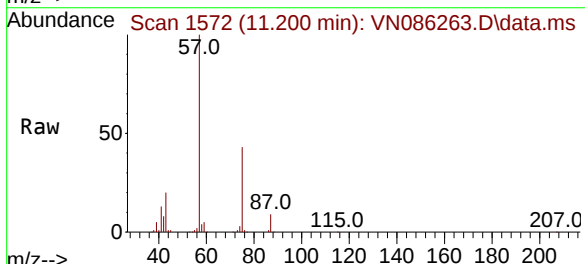
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#03

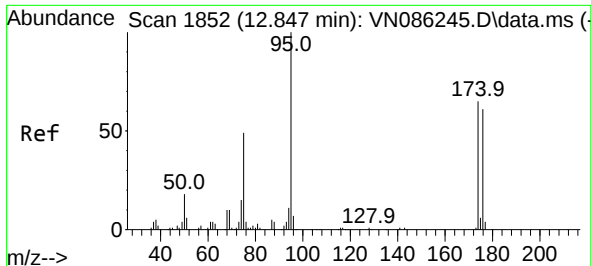
Tgt Ion: 43 Resp: 5193
Ion Ratio Lower Upper
43 100
58 41.1 32.5 48.7
85 10.0 14.4 21.6#



#59
2-Hexanone
Concen: 28.062 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN086263.D
Acq: 14 Apr 2025 12:50

Tgt Ion: 43 Resp: 69371
Ion Ratio Lower Upper
43 100
58 15.1 45.3 67.9#
57 390.2 15.8 23.6#

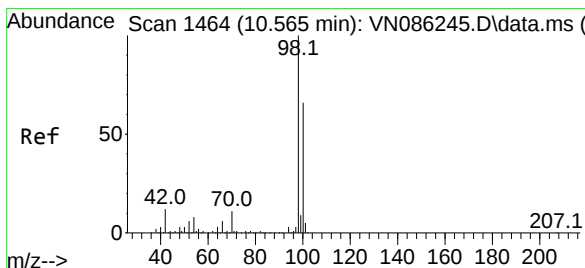
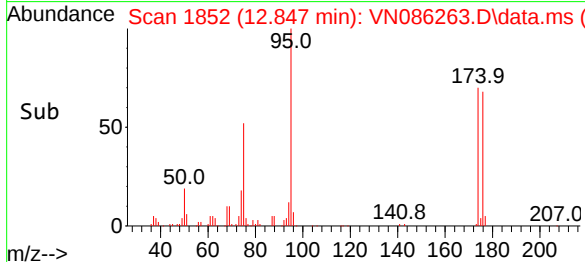
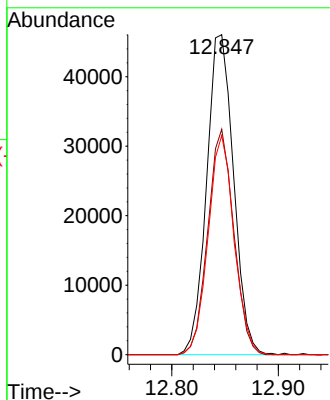
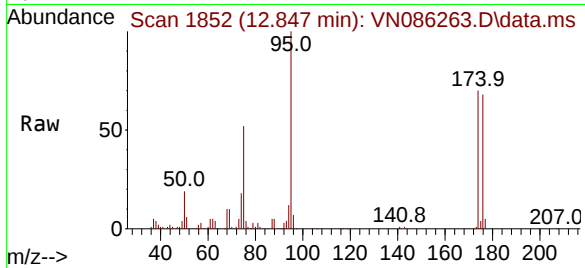




#60
4-Bromofluorobenzene
Concen: 27.845 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086263.D
Acq: 14 Apr 2025 12:50

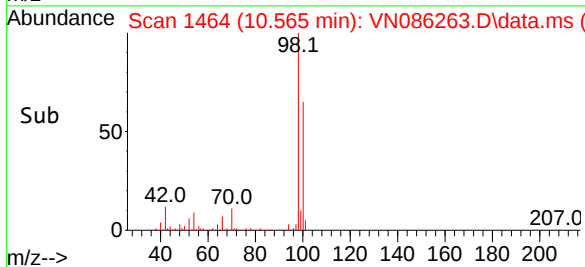
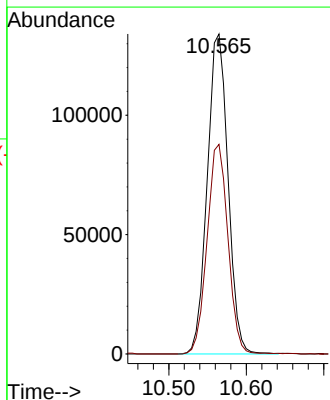
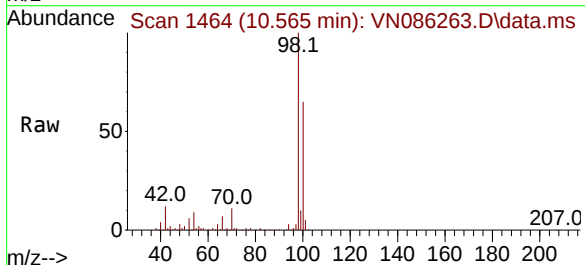
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#03

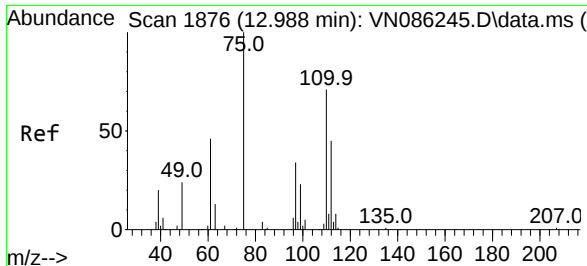
Tgt Ion: 95 Resp: 81102
Ion Ratio Lower Upper
95 100
174 67.6 52.7 79.1
176 65.7 49.8 74.8



#63
Toluene-d8
Concen: 30.208 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086263.D
Acq: 14 Apr 2025 12:50

Tgt Ion: 98 Resp: 249489
Ion Ratio Lower Upper
98 100
100 65.6 52.3 78.5

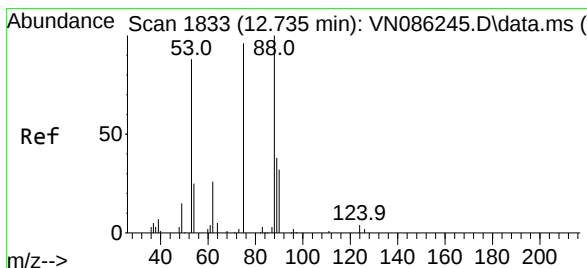
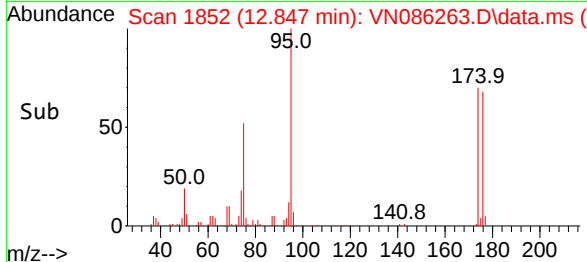
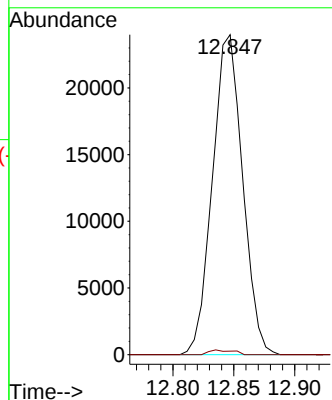
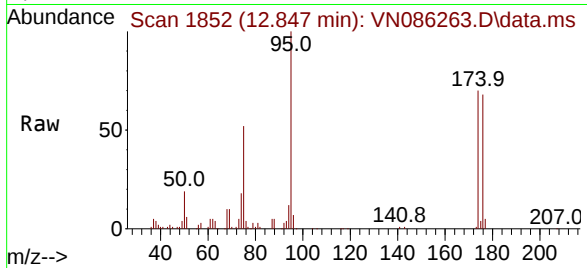




#72
1,2,3-Trichloropropane
Concen: 14.229 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086263.D
Acq: 14 Apr 2025 12:50

Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#03

Tgt Ion: 75 Resp: 41370
Ion Ratio Lower Upper
75 100
77 0.5 0.0 380.0



#77
t-1,4-Dichloro-2-butene
Concen: 30.858 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086263.D
Acq: 14 Apr 2025 12:50

Tgt Ion: 75 Resp: 41370
Ion Ratio Lower Upper
75 100
53 0.0 46.4 139.2#
89 0.0 22.5 67.5#

