

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041425\
 Data File : VN086267.D
 Acq On : 14 Apr 2025 14:26
 Operator : JC\MD
 Sample : PB167573ZHE#07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167573ZHE#07

Quant Time: Apr 15 03:10:42 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)

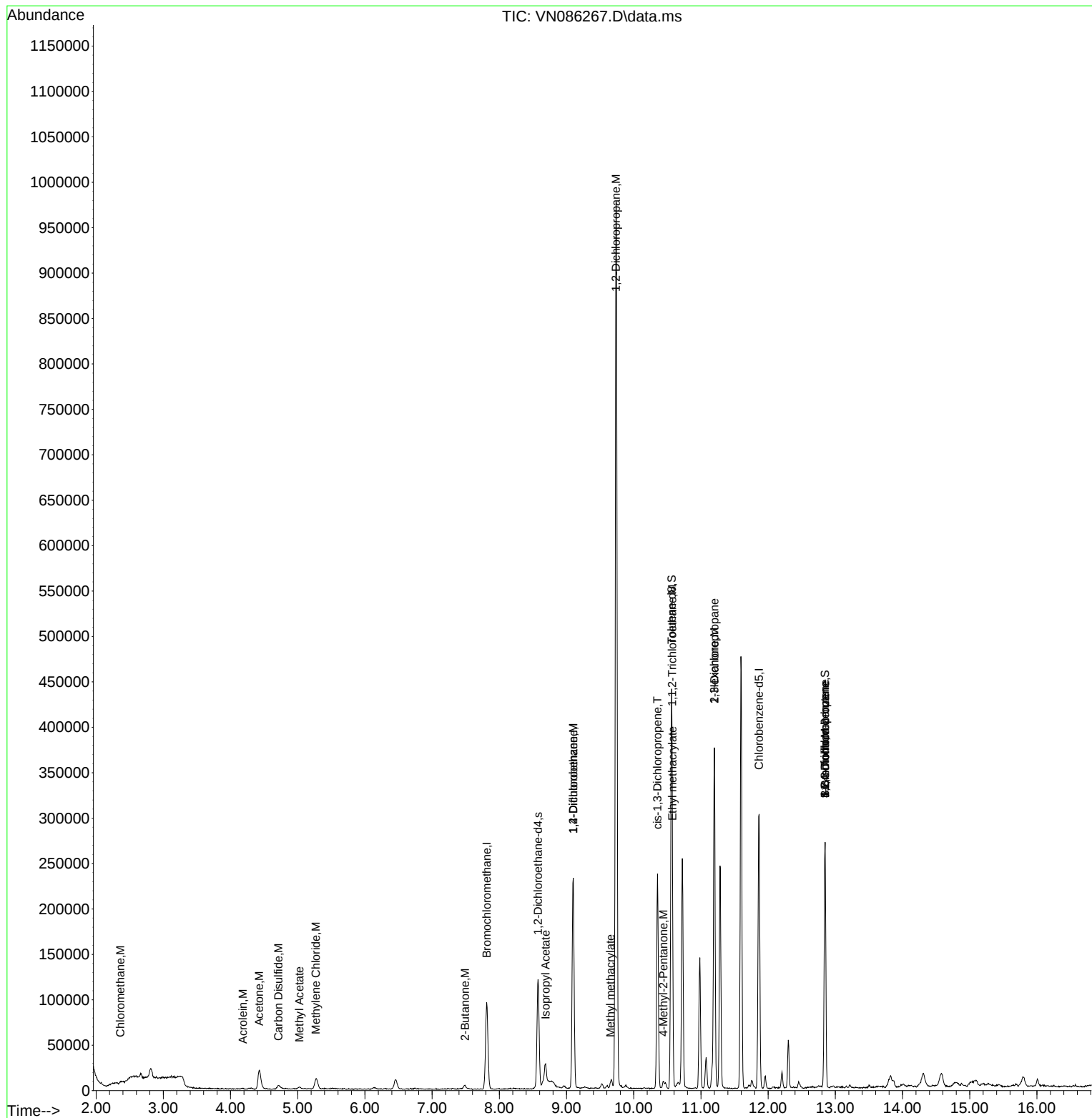
Internal Standards						
1) Bromochloromethane	7.812	128	33770	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	204686	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	182568	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	99882	30.324	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.067%
60) 4-Bromofluorobenzene	12.847	95	102439	28.182	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	93.933%
63) Toluene-d8	10.565	98	307732	29.857	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.533%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	1008	0.270	ug/l	98
12) Methyl Acetate	5.024	43	2070	0.570	ug/l #	89
13) Acrolein	4.183	56	222	0.538	ug/l #	14
15) Acetone	4.424	58	13220	34.011	ug/l	84
16) Carbon Disulfide	4.712	76	8357	1.133	ug/l	97
18) Methylene Chloride	5.271	84	9378	3.199	ug/l	89
30) 2-Butanone	7.489	43	6960	3.426	ug/l #	98
36) 1,2-Dichloroethane	9.100	62	7141	1.956	ug/l #	72
39) 1,2-Dichloropropane	9.735	63	1372	0.473	ug/l #	42
44) Isopropyl Acetate	8.688	43	41318	5.435	ug/l #	74
46) Methyl methacrylate	9.653	41	908	0.271	ug/l #	34
49) cis-1,3-Dichloropropene	10.353	75	44576	9.250	ug/l #	58
50) 1,1,2-Trichloroethane	10.571	97	9889	3.761	ug/l #	1
51) Ethyl methacrylate	10.577	69	1632	0.334	ug/l	98
52) 1,3-Dichloropropane	11.200	76	3910	0.834	ug/l #	42
56) Bromoform	12.847	173	628	0.334	ug/l #	1
58) 4-Methyl-2-Pentanone	10.441	43	5788	1.397	ug/l	99
59) 2-Hexanone	11.200	43	57670	18.694	ug/l #	1
72) 1,2,3-Trichloropropane	12.847	75	51531	14.202	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	51531	30.801	ug/l #	12

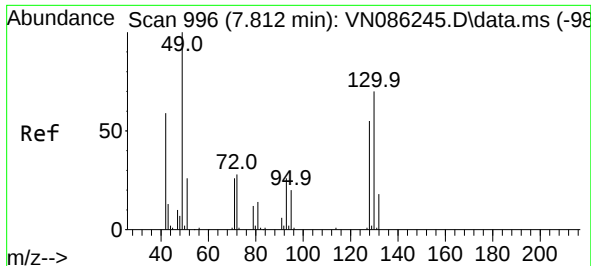
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 15 03:10:42 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

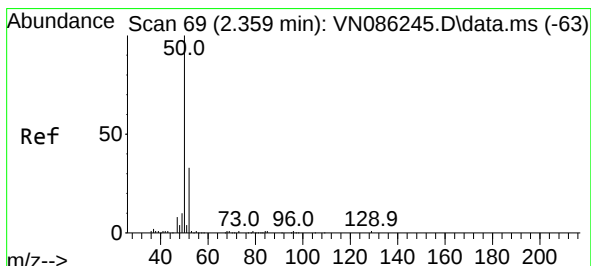
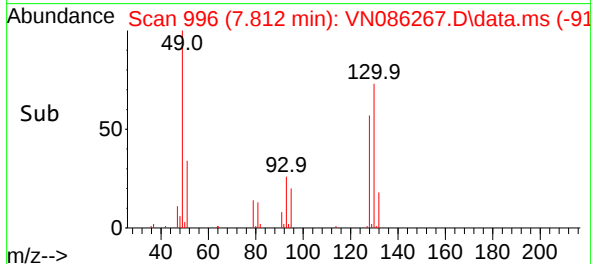
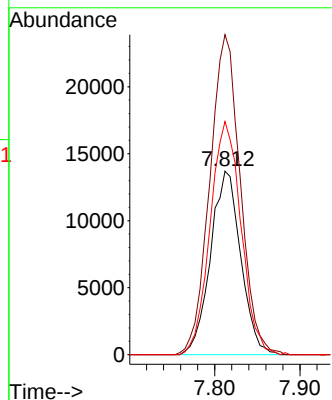
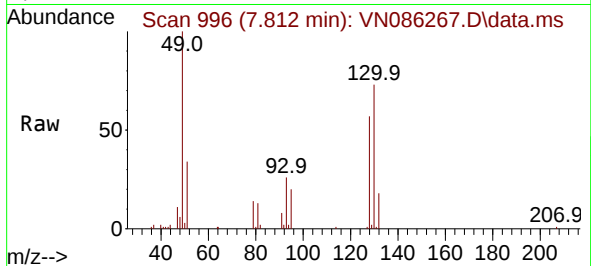




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN086267.D
Acq: 14 Apr 2025 14:26

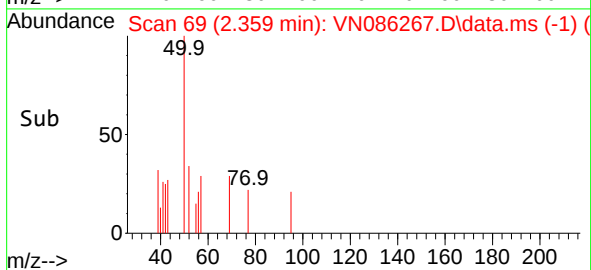
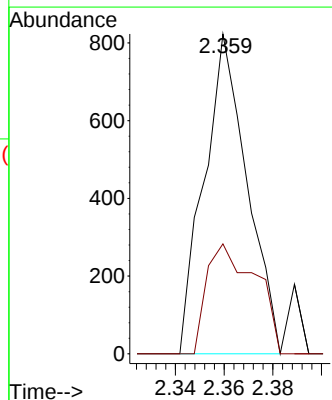
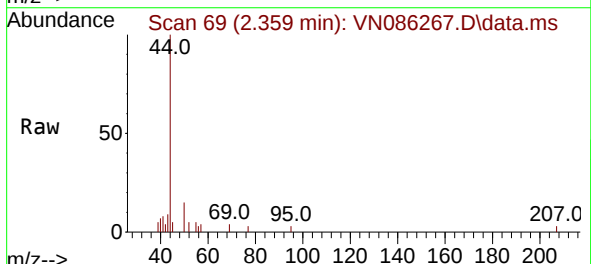
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#07

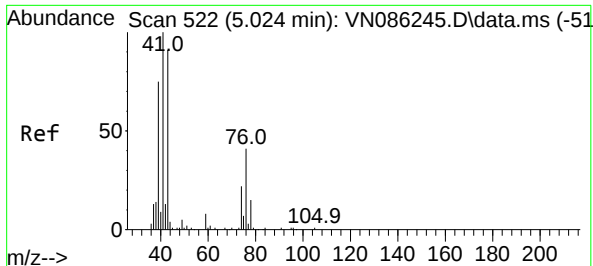
Tgt Ion:128 Resp: 33770
Ion Ratio Lower Upper
128 100
49 175.6 0.0 452.5
130 129.7 0.0 315.0



#3
Chloromethane
Concen: 0.270 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086267.D
Acq: 14 Apr 2025 14:26

Tgt Ion: 50 Resp: 1008
Ion Ratio Lower Upper
50 100
52 34.4 26.4 39.6





#12

Methyl Acetate

Concen: 0.570 ug/l

RT: 5.024 min Scan# 51

Delta R.T. 0.000 min

Lab File: VN086267.D

Acq: 14 Apr 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

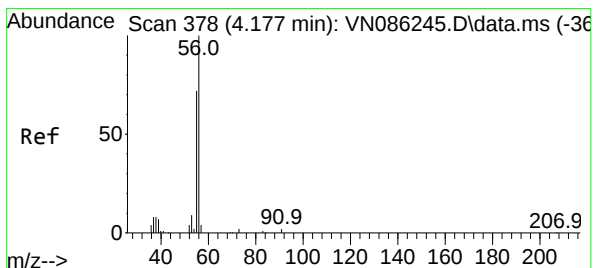
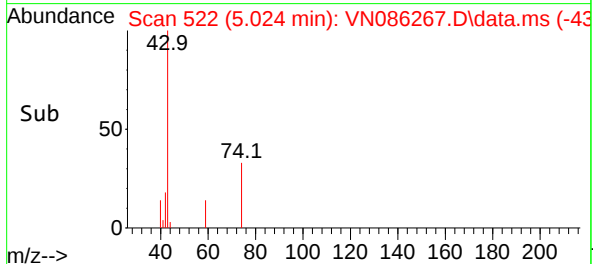
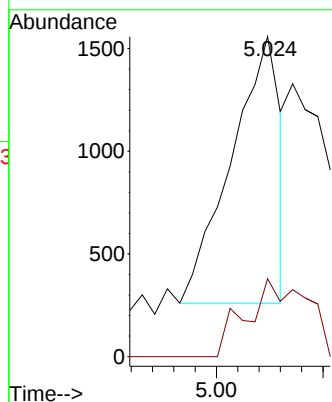
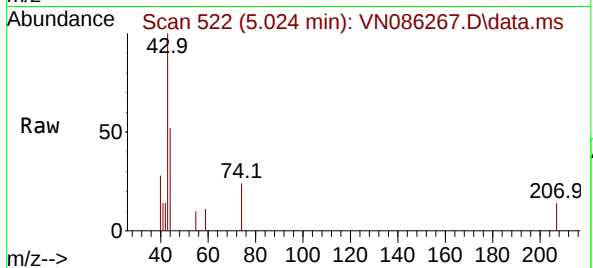
PB167573ZHE#07

Tgt Ion: 43 Resp: 2070

Ion Ratio Lower Upper

43 100

74 29.4 19.1 28.7#



#13

Acrolein

Concen: 0.538 ug/l

RT: 4.183 min Scan# 379

Delta R.T. 0.006 min

Lab File: VN086267.D

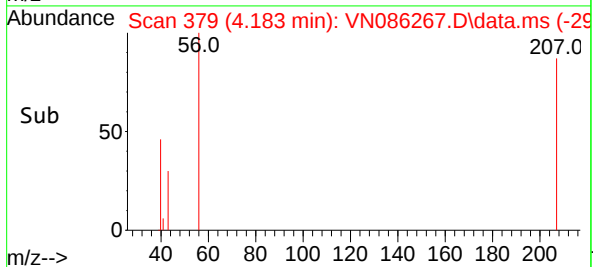
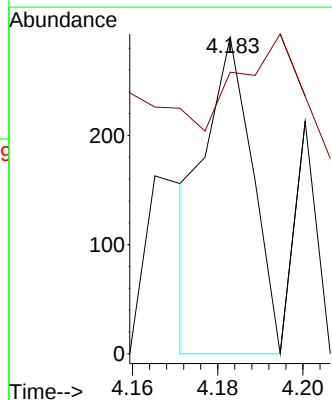
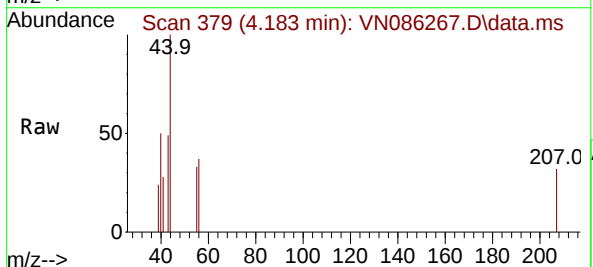
Acq: 14 Apr 2025 14:26

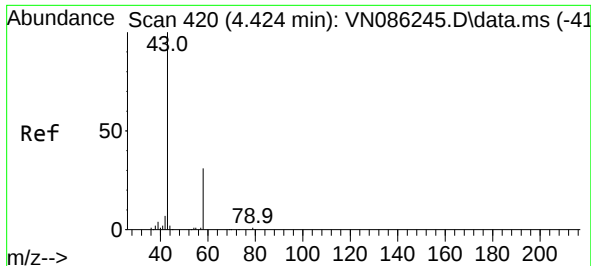
Tgt Ion: 56 Resp: 222

Ion Ratio Lower Upper

56 100

55 0.0 56.5 84.7#





#15

Acetone

Concen: 34.011 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN086267.D

Acq: 14 Apr 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

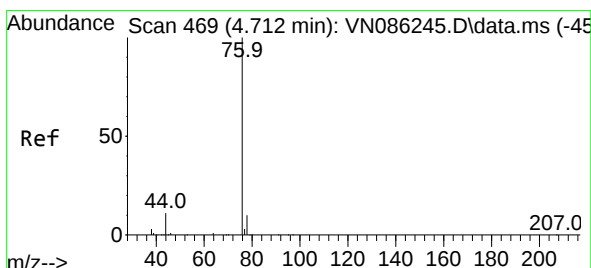
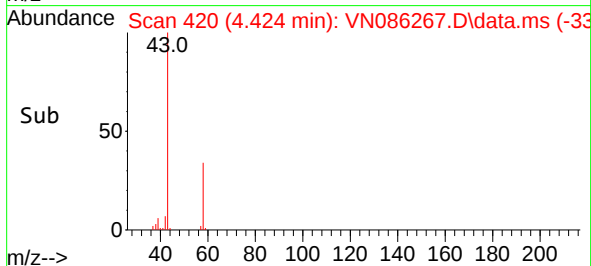
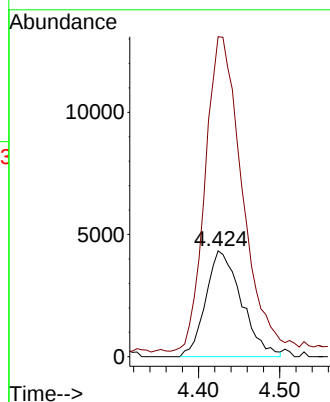
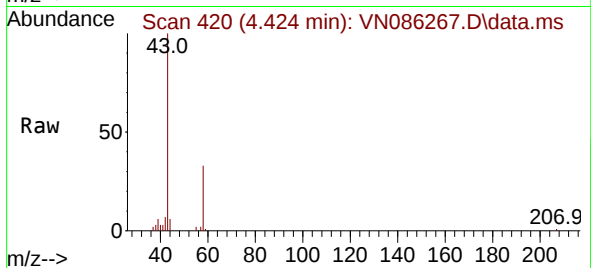
PB167573ZHE#07

Tgt Ion: 58 Resp: 13220

Ion Ratio Lower Upper

58 100

43 294.4 261.8 392.8



#16

Carbon Disulfide

Concen: 1.133 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN086267.D

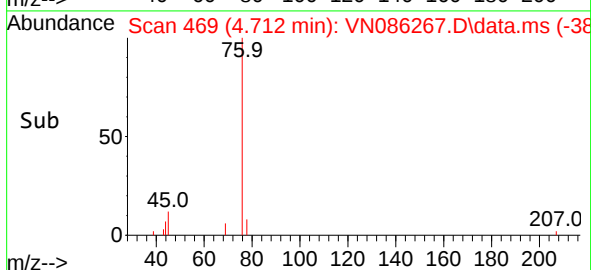
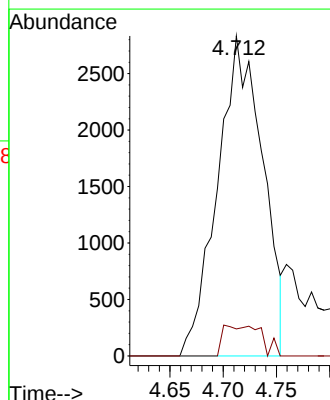
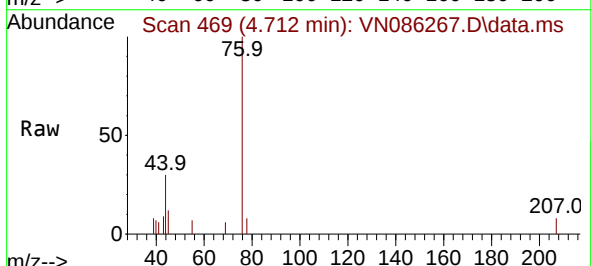
Acq: 14 Apr 2025 14:26

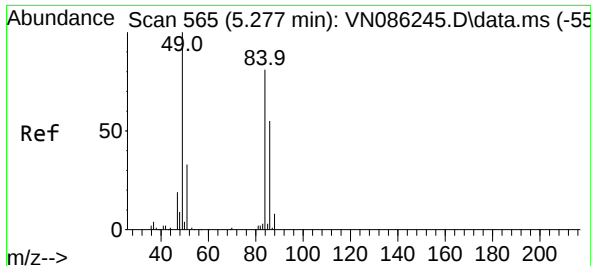
Tgt Ion: 76 Resp: 8357

Ion Ratio Lower Upper

76 100

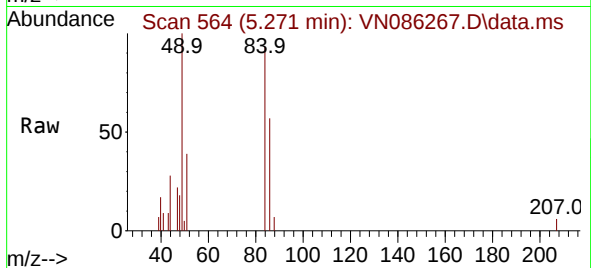
78 8.4 7.7 11.5



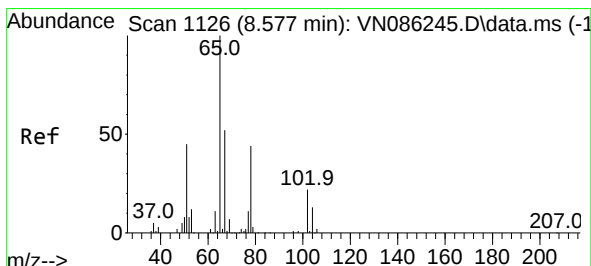
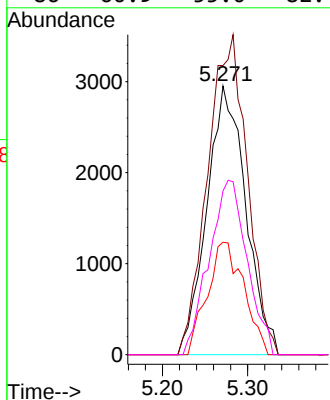
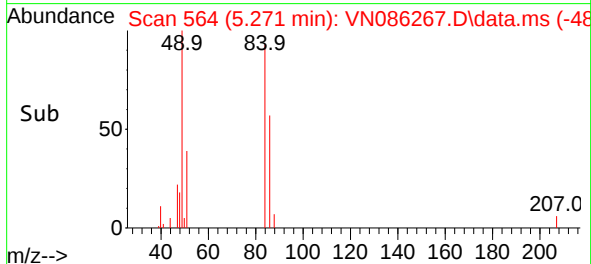


#18
Methylene Chloride
Concen: 3.199 ug/l
RT: 5.271 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN086267.D
Acq: 14 Apr 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#07

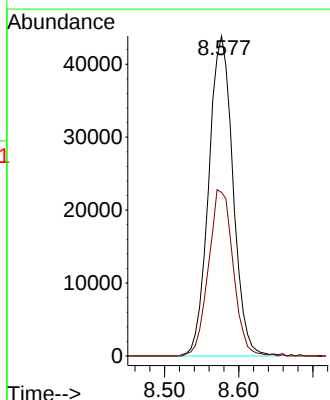
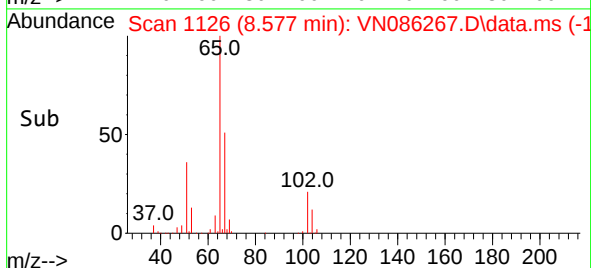
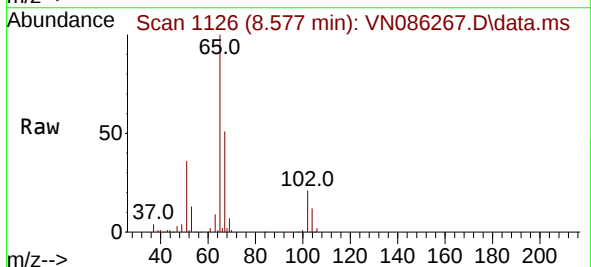


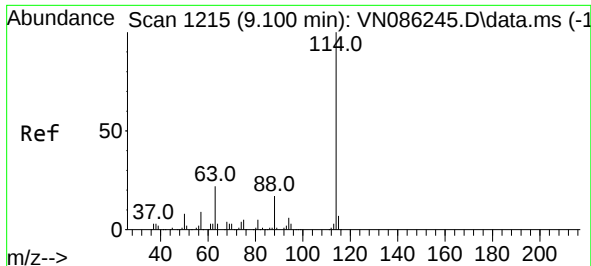
Tgt Ion:	84	Resp:	9378
Ion	Ratio	Lower	Upper
84	100		
49	107.6	99.1	148.7
51	41.9	32.3	48.5
86	60.9	55.0	82.4



#27
1,2-Dichloroethane-d4
Concen: 30.324 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN086267.D
Acq: 14 Apr 2025 14:26

Tgt Ion:	65	Resp:	99882
Ion	Ratio	Lower	Upper
65	100		
67	52.5	43.4	65.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN086267.D

Acq: 14 Apr 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

PB167573ZHE#07

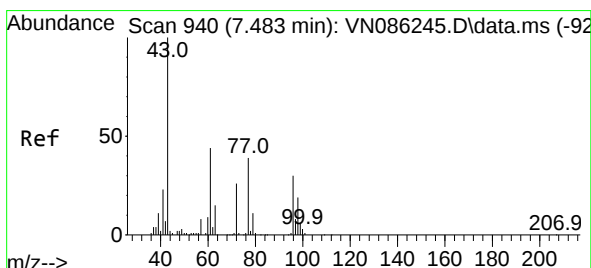
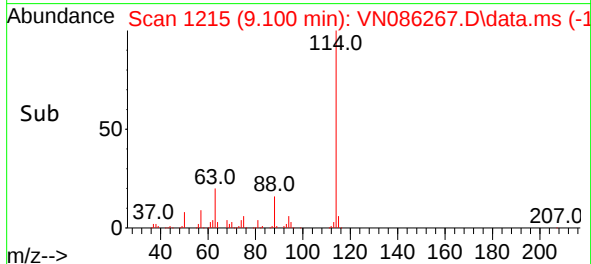
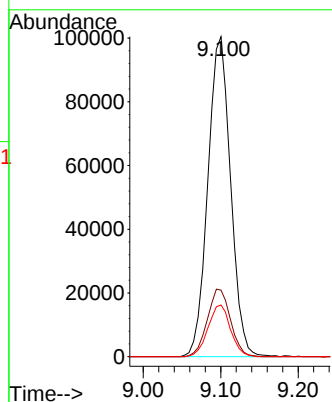
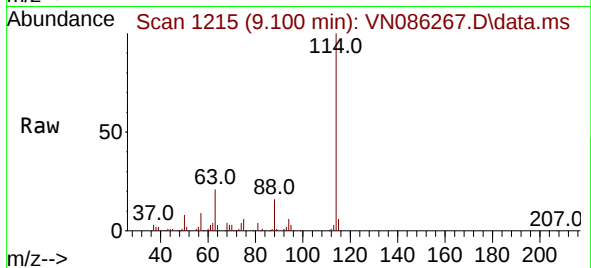
Tgt Ion:114 Resp: 204686

Ion Ratio Lower Upper

114 100

63 21.5 17.8 26.6

88 16.0 13.4 20.2



#30

2-Butanone

Concen: 3.426 ug/l

RT: 7.489 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN086267.D

Acq: 14 Apr 2025 14:26

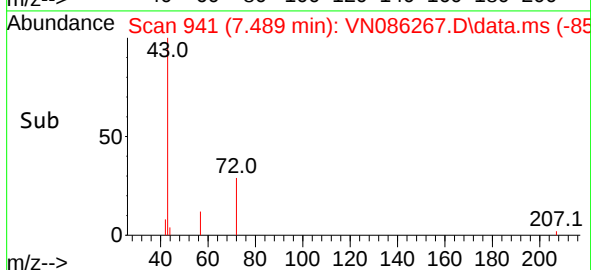
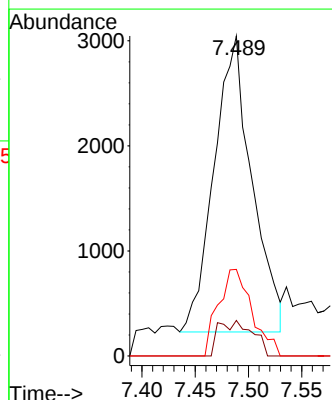
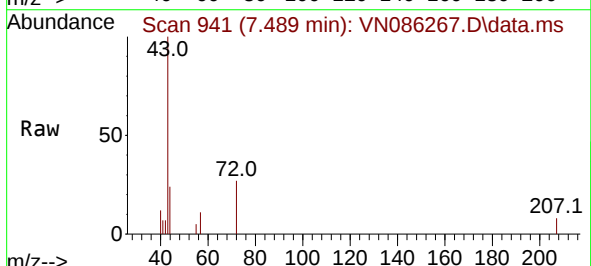
Tgt Ion: 43 Resp: 6960

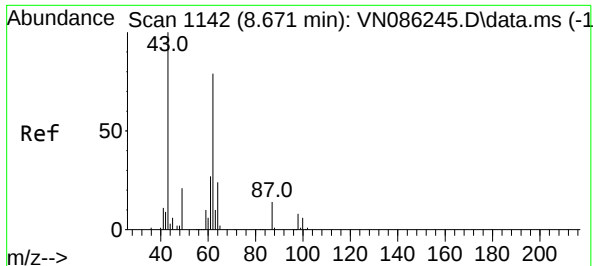
Ion Ratio Lower Upper

43 100

57 6.3 6.4 9.6#

72 26.0 21.5 32.3





#36

1,2-Dichloroethane

Concen: 1.956 ug/l

RT: 9.100 min Scan# 1142

Delta R.T. 0.429 min

Lab File: VN086267.D

Acq: 14 Apr 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

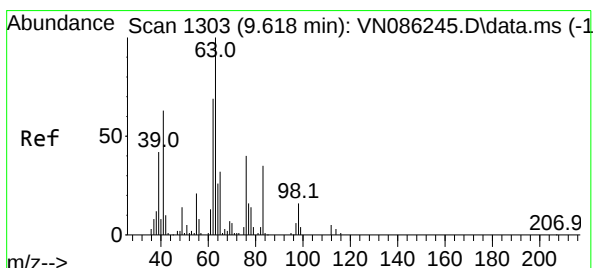
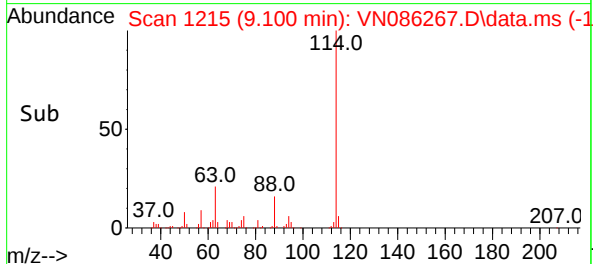
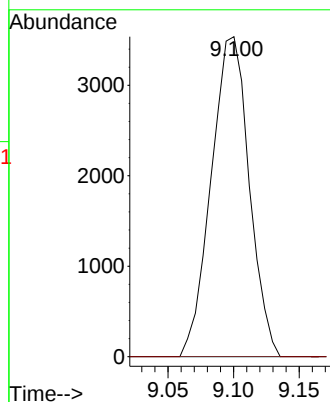
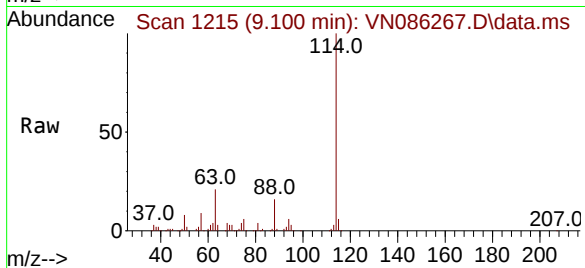
PB167573ZHE#07

Tgt Ion: 62 Resp: 7141

Ion Ratio Lower Upper

62 100

98 0.0 8.6 12.8#



#39

1,2-Dichloropropane

Concen: 0.473 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.118 min

Lab File: VN086267.D

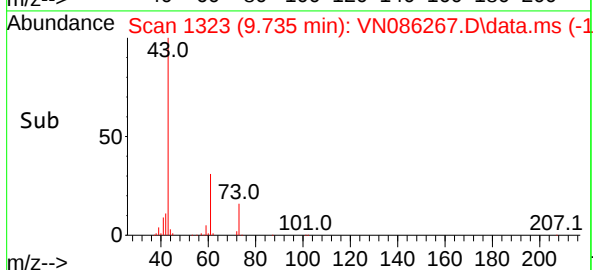
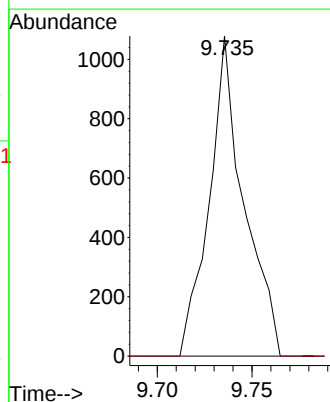
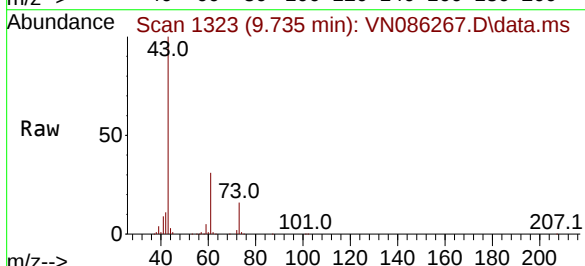
Acq: 14 Apr 2025 14:26

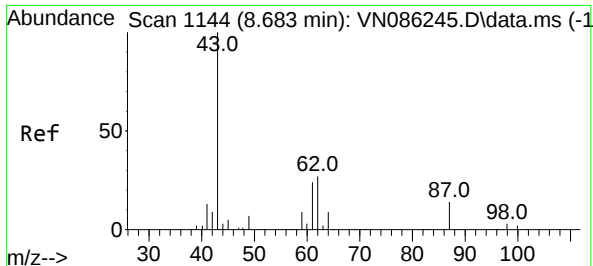
Tgt Ion: 63 Resp: 1372

Ion Ratio Lower Upper

63 100

65 0.0 26.0 39.0#

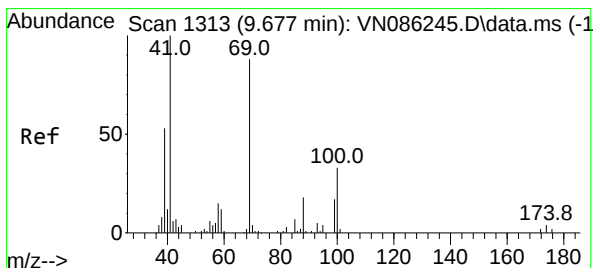
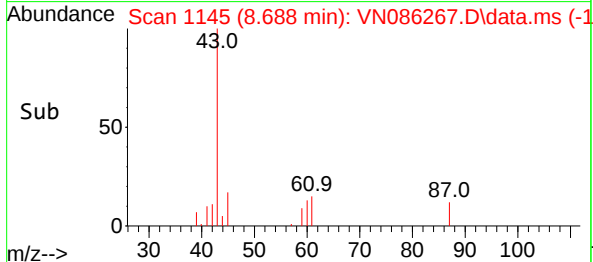
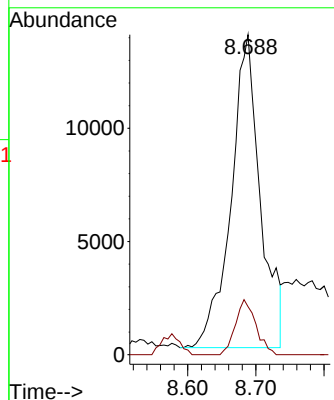
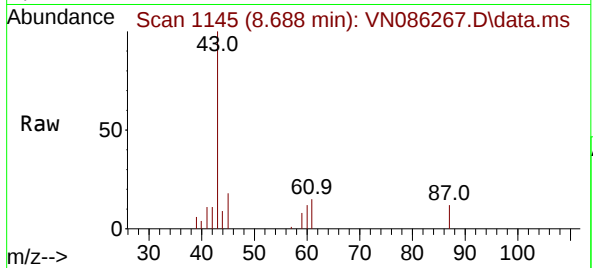




#44
Isopropyl Acetate
Concen: 5.435 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.006 min
Lab File: VN086267.D
Acq: 14 Apr 2025 14:26

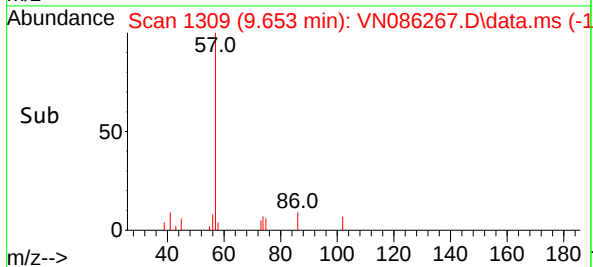
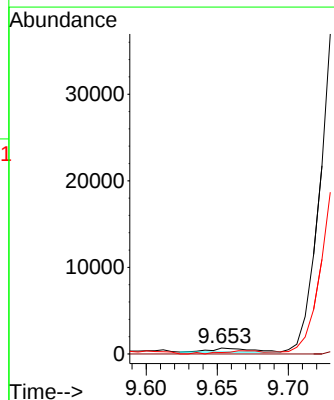
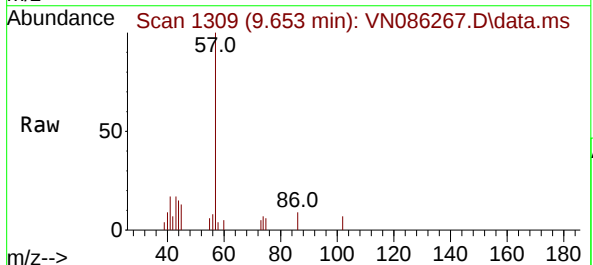
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#07

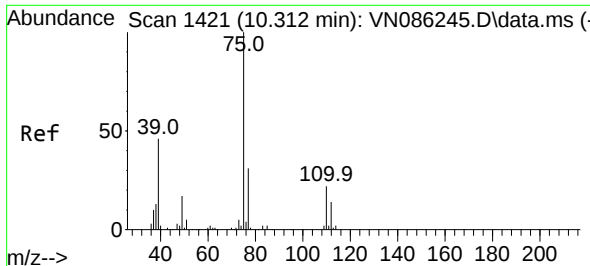
Tgt Ion: 43 Resp: 41318
Ion Ratio Lower Upper
43 100
61 12.3 20.5 30.7#



#46
Methyl methacrylate
Concen: 0.271 ug/l
RT: 9.653 min Scan# 1309
Delta R.T. -0.023 min
Lab File: VN086267.D
Acq: 14 Apr 2025 14:26

Tgt Ion: 41 Resp: 908
Ion Ratio Lower Upper
41 100
69 0.0 43.2 129.6#
39 37.8 26.4 79.0

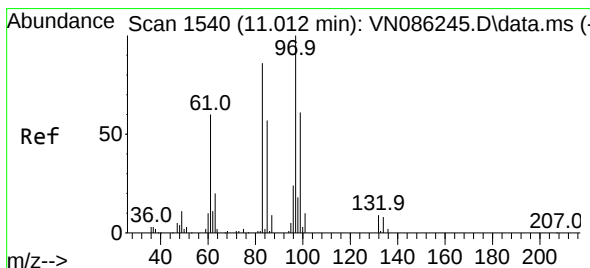
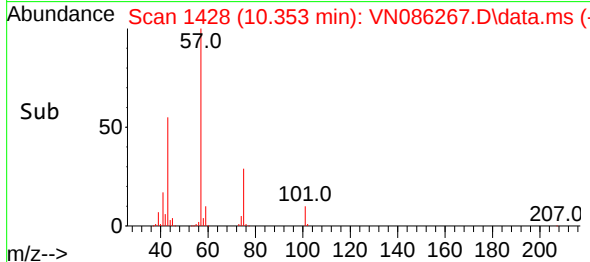
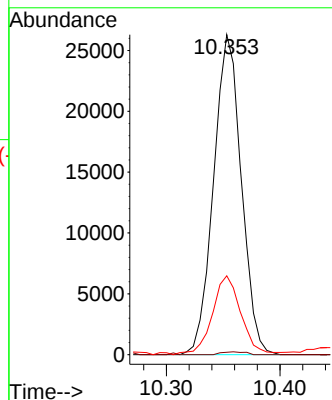
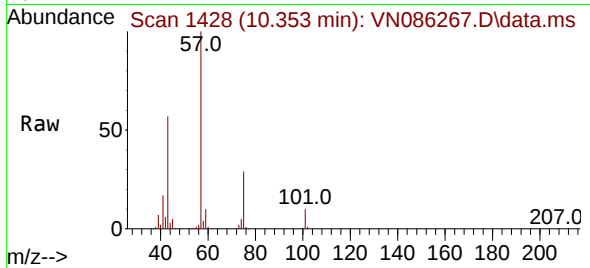




#49
 cis-1,3-Dichloropropene
 Concen: 9.250 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.041 min
 Lab File: VN086267.D
 Acq: 14 Apr 2025 14:26

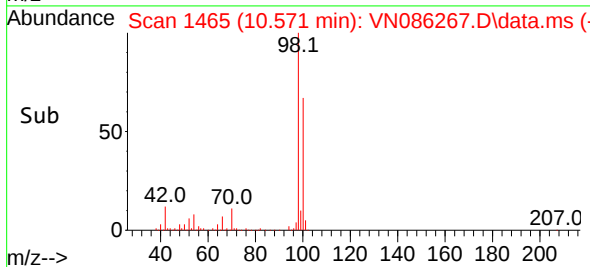
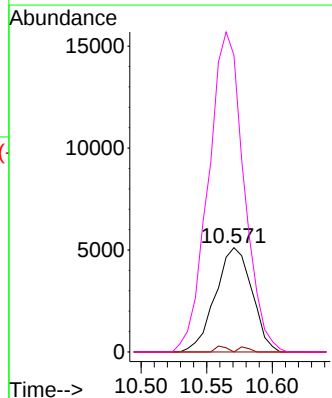
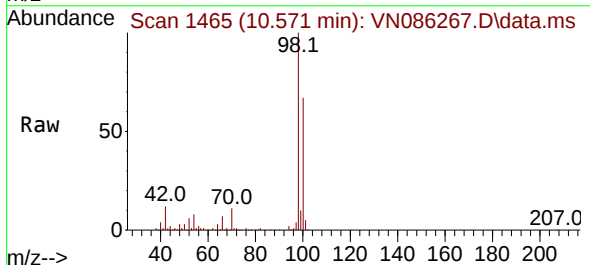
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167573ZHE#07

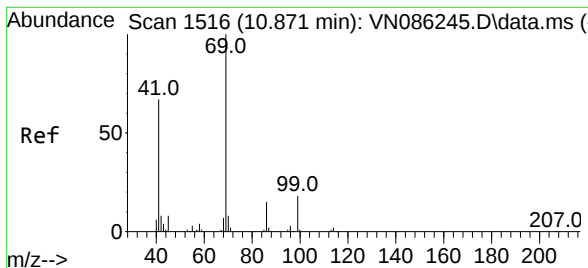
Tgt Ion: 75 Resp: 44576
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.0 37.4#
 39 24.0 36.7 55.1#



#50
 1,1,2-Trichloroethane
 Concen: 3.761 ug/l
 RT: 10.571 min Scan# 1465
 Delta R.T. -0.441 min
 Lab File: VN086267.D
 Acq: 14 Apr 2025 14:26

Tgt Ion: 97 Resp: 9889
 Ion Ratio Lower Upper
 97 100
 83 0.0 68.6 103.0#
 85 0.0 45.9 68.9#
 99 281.2 48.6 73.0#

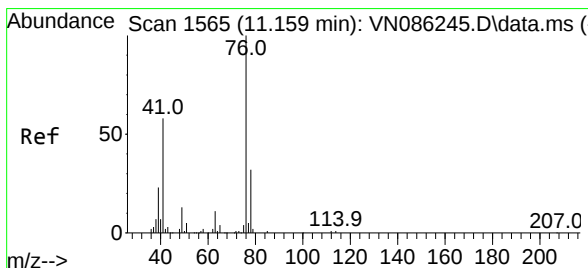
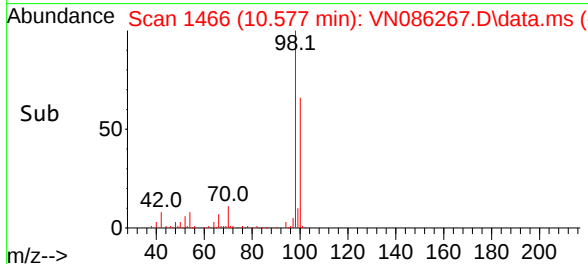
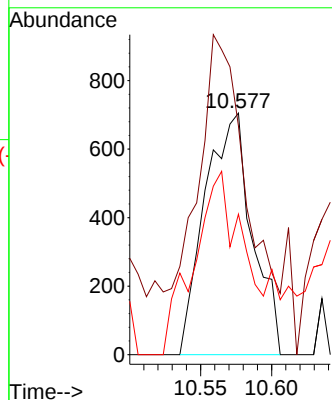
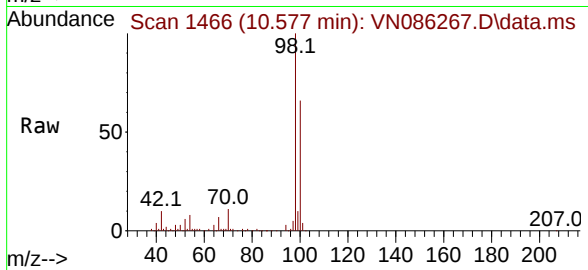




#51
Ethyl methacrylate
Concen: 0.334 ug/l
RT: 10.577 min Scan# 1466
Delta R.T. -0.294 min
Lab File: VN086267.D
Acq: 14 Apr 2025 14:26

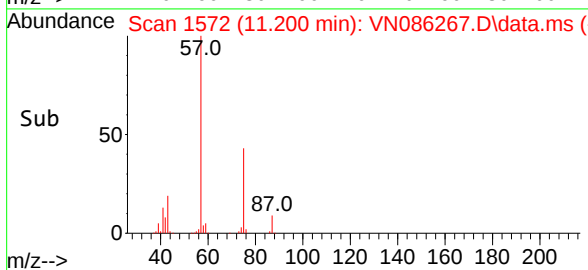
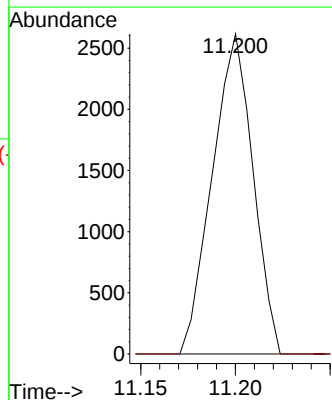
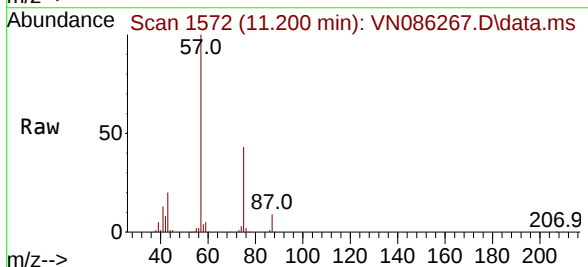
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#07

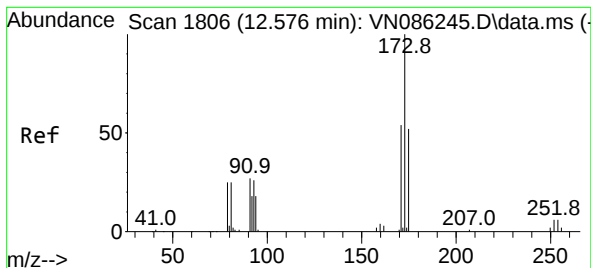
Tgt Ion: 69 Resp: 1632
Ion Ratio Lower Upper
69 100
41 69.4 33.6 100.6
39 35.5 17.8 53.4



#52
1,3-Dichloropropane
Concen: 0.834 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN086267.D
Acq: 14 Apr 2025 14:26

Tgt Ion: 76 Resp: 3910
Ion Ratio Lower Upper
76 100
78 0.0 0.0 64.6





#56

Bromoform

Concen: 0.334 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.271 min

Lab File: VN086267.D

Acq: 14 Apr 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

PB167573ZHE#07

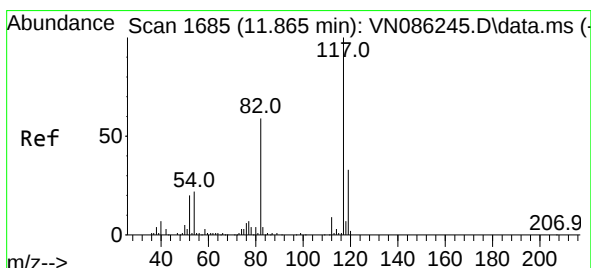
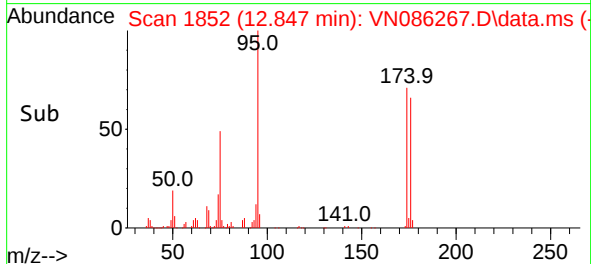
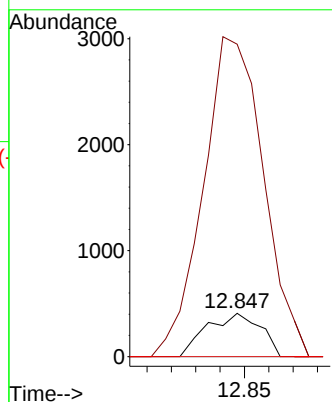
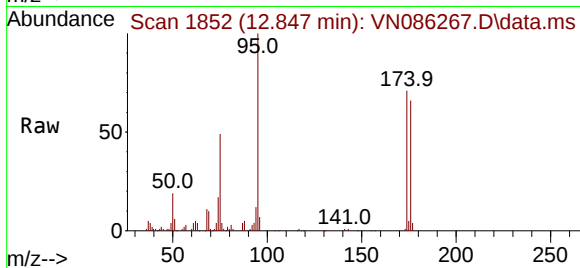
Tgt Ion:173 Resp: 628

Ion Ratio Lower Upper

173 100

175 826.4 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: VN086267.D

Acq: 14 Apr 2025 14:26

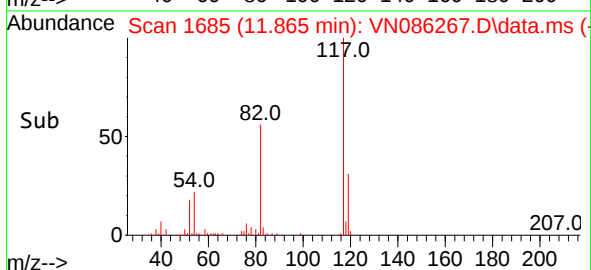
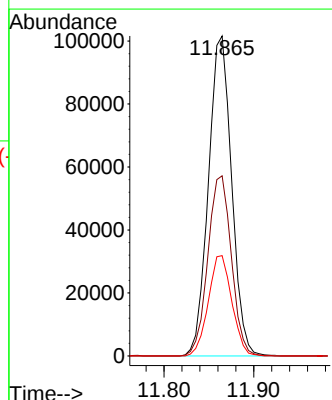
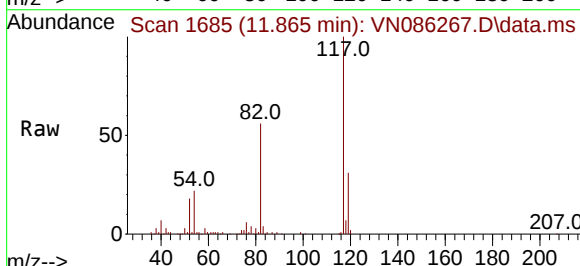
Tgt Ion:117 Resp: 182568

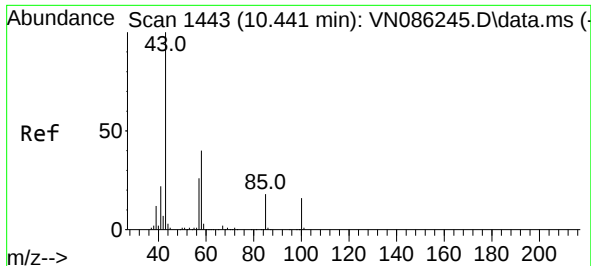
Ion Ratio Lower Upper

117 100

82 57.1 47.3 70.9

119 31.8 25.9 38.9

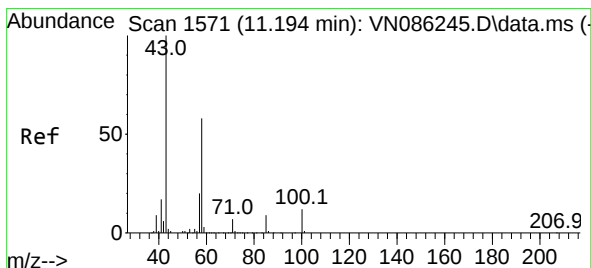
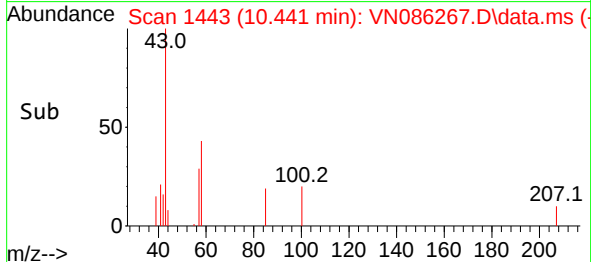
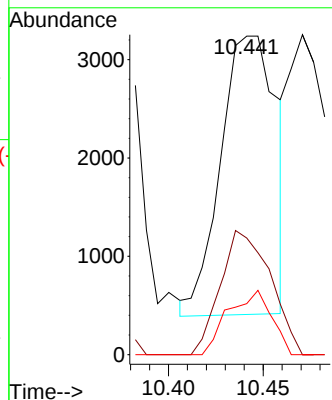
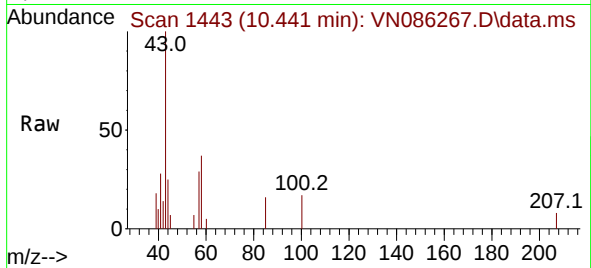




#58
4-Methyl-2-Pentanone
Concen: 1.397 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086267.D
Acq: 14 Apr 2025 14:26

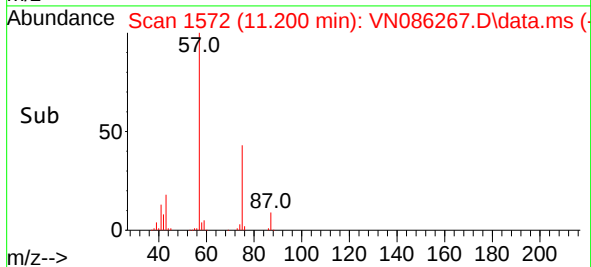
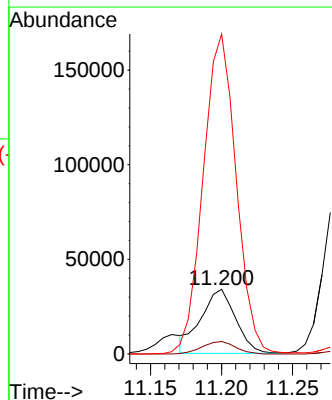
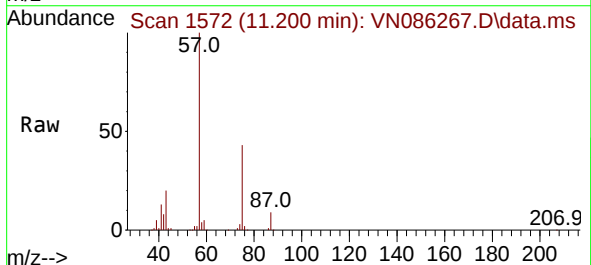
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#07

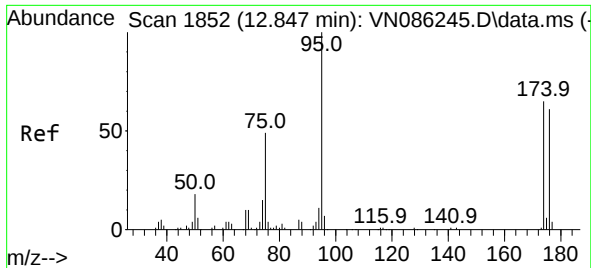
Tgt Ion: 43 Resp: 5788
Ion Ratio Lower Upper
43 100
58 40.1 32.5 48.7
85 17.9 14.4 21.6



#59
2-Hexanone
Concen: 18.694 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN086267.D
Acq: 14 Apr 2025 14:26

Tgt Ion: 43 Resp: 57670
Ion Ratio Lower Upper
43 100
58 18.6 45.3 67.9#
57 475.9 15.8 23.6#

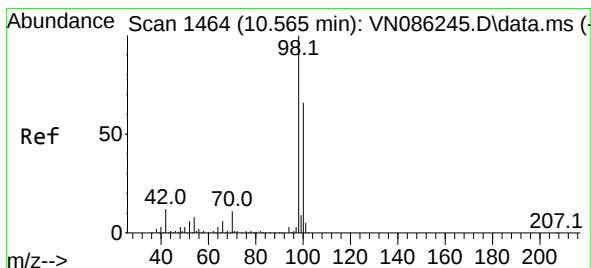
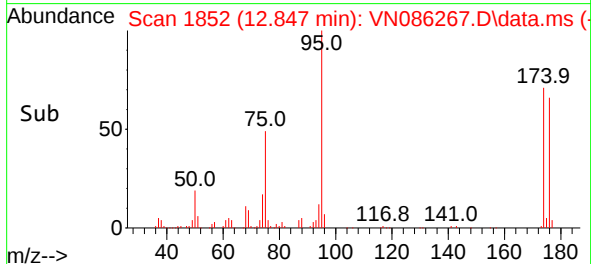
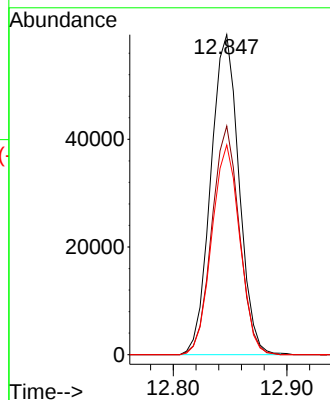
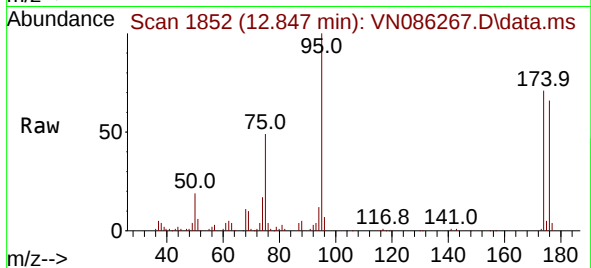




#60
4-Bromofluorobenzene
Concen: 28.182 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086267.D
Acq: 14 Apr 2025 14:26

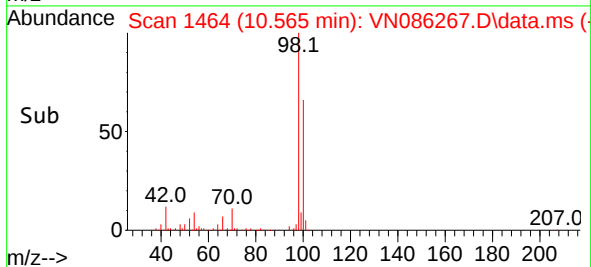
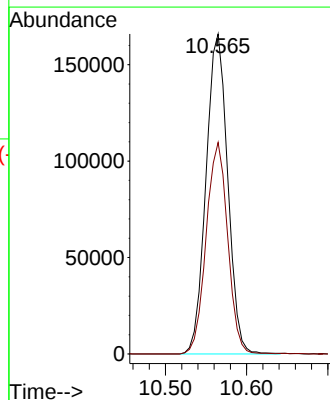
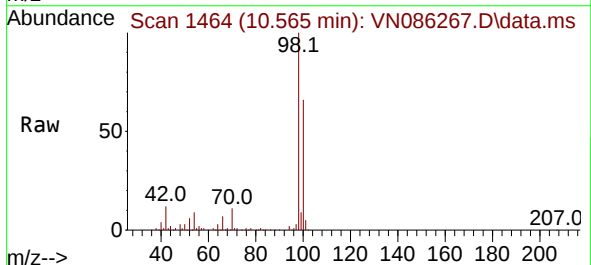
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#07

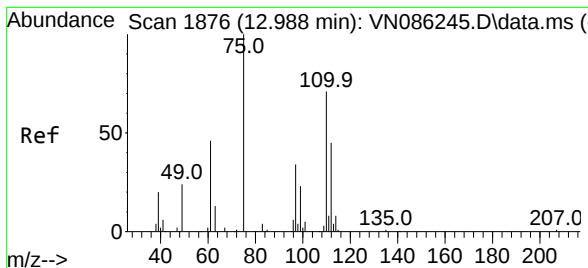
Tgt Ion: 95 Resp: 102439
Ion Ratio Lower Upper
95 100
174 69.6 52.7 79.1
176 65.2 49.8 74.8



#63
Toluene-d8
Concen: 29.857 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086267.D
Acq: 14 Apr 2025 14:26

Tgt Ion: 98 Resp: 307732
Ion Ratio Lower Upper
98 100
100 65.5 52.3 78.5





#72

1,2,3-Trichloropropane

Concen: 14.202 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN086267.D

Acq: 14 Apr 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

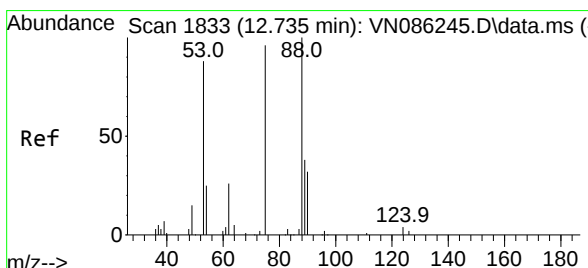
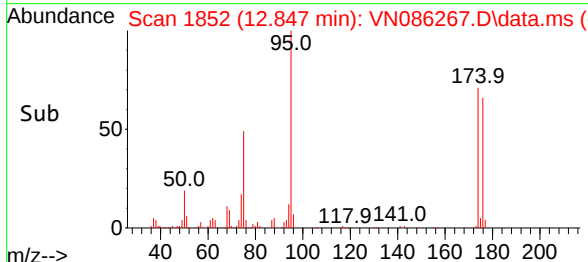
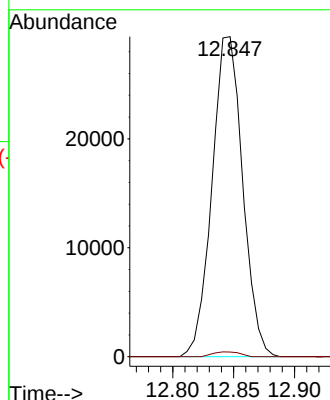
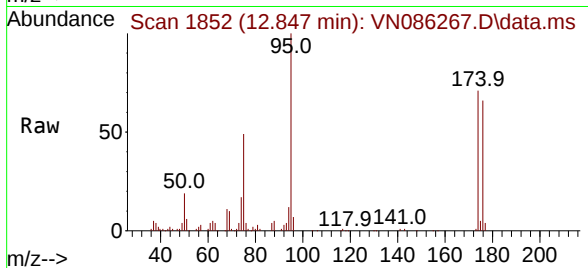
PB167573ZHE#07

Tgt Ion: 75 Resp: 51531

Ion Ratio Lower Upper

75 100

77 1.3 0.0 380.0



#77

t-1,4-Dichloro-2-butene

Concen: 30.801 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN086267.D

Acq: 14 Apr 2025 14:26

Tgt Ion: 75 Resp: 51531

Ion Ratio Lower Upper

75 100

53 0.0 46.4 139.2#

89 0.0 22.5 67.5#

