

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041425\
 Data File : VN086271.D
 Acq On : 14 Apr 2025 16:02
 Operator : JC\MD
 Sample : PB167573ZHE#11
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167573ZHE#11

Quant Time: Apr 15 03:12:46 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)

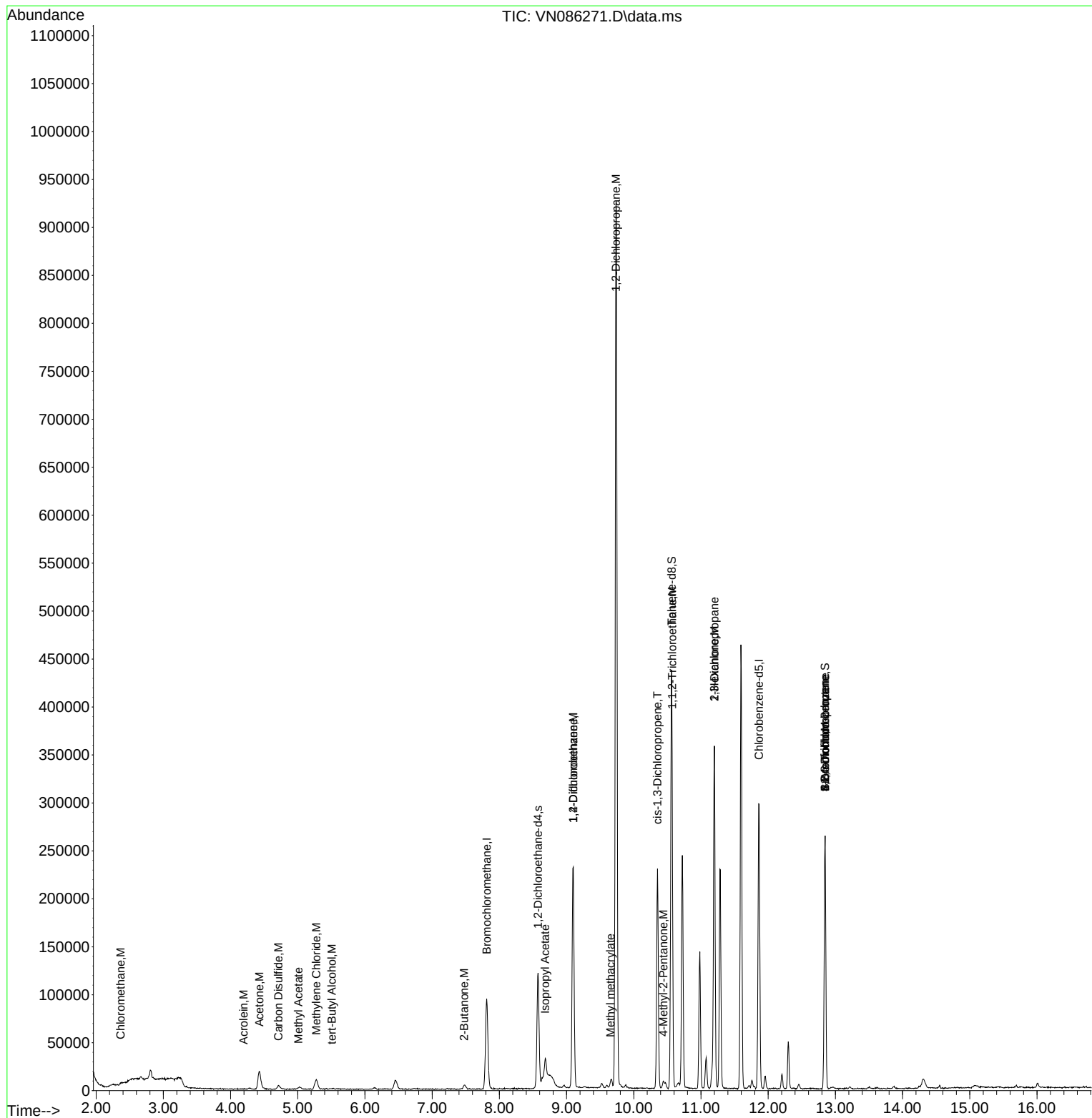
Internal Standards						
1) Bromochloromethane	7.812	128	33842	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	203544	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	176498	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	98161	29.738	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.133%
60) 4-Bromofluorobenzene	12.847	95	98553	28.046	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	93.500%
63) Toluene-d8	10.565	98	301204	30.228	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.767%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	898	0.240	ug/l #	46
12) Methyl Acetate	5.012	43	1525	0.419	ug/l	100
13) Acrolein	4.195	56	113	0.273	ug/l	92
15) Acetone	4.430	58	11807	30.311	ug/l	74
16) Carbon Disulfide	4.712	76	4624	0.626	ug/l	97
18) Methylene Chloride	5.277	84	7828	2.664	ug/l #	94
23) tert-Butyl Alcohol	5.506	59	237	0.372	ug/l #	100
30) 2-Butanone	7.477	43	7082	3.505	ug/l	99
36) 1,2-Dichloroethane	9.100	62	6892	1.899	ug/l #	72
39) 1,2-Dichloropropane	9.735	63	1134	0.393	ug/l #	42
44) Isopropyl Acetate	8.683	43	51707	6.839	ug/l #	69
46) Methyl methacrylate	9.653	41	667	0.200	ug/l #	38
49) cis-1,3-Dichloropropene	10.353	75	43115	8.997	ug/l #	56
50) 1,1,2-Trichloroethane	10.571	97	9033	3.455	ug/l #	1
52) 1,3-Dichloropropane	11.200	76	3873	0.831	ug/l #	42
56) Bromoform	12.847	173	488	0.261	ug/l #	1
58) 4-Methyl-2-Pentanone	10.441	43	4549	1.136	ug/l #	88
59) 2-Hexanone	11.200	43	66767	22.387	ug/l #	1
72) 1,2,3-Trichloropropane	12.847	75	49827	14.205	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	49827	30.806	ug/l #	12

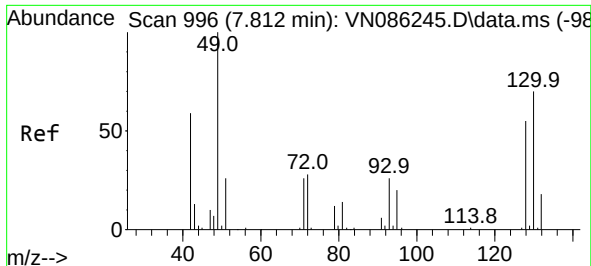
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 15 03:12:46 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

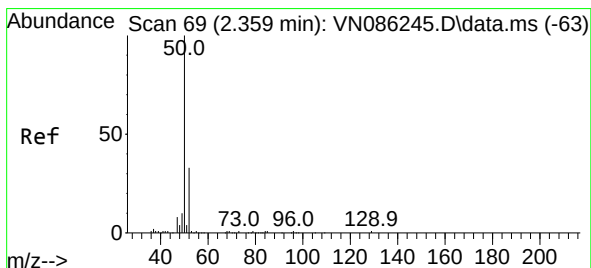
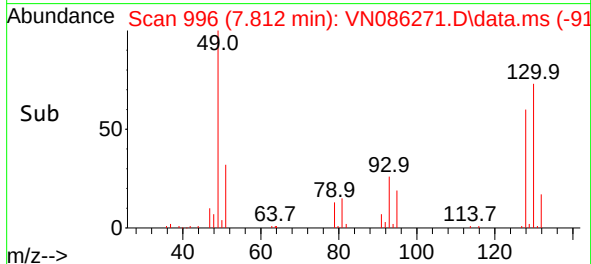
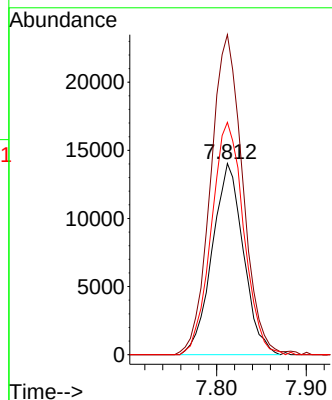
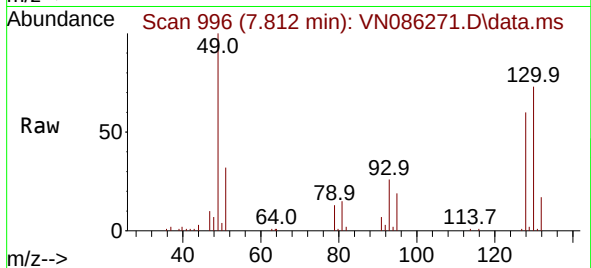




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN086271.D
Acq: 14 Apr 2025 16:02

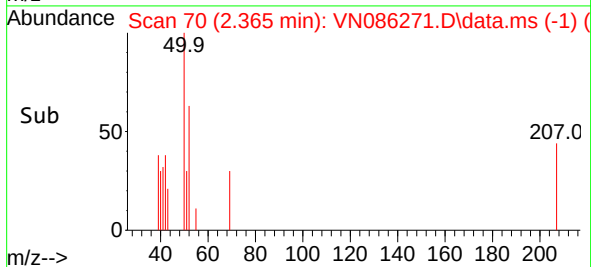
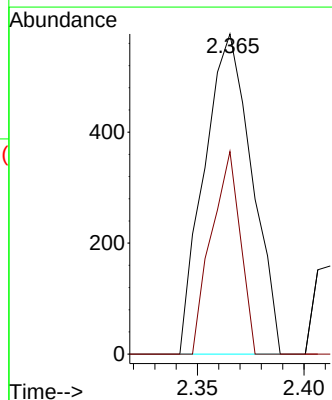
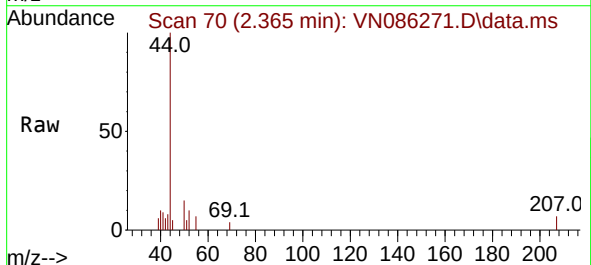
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#11

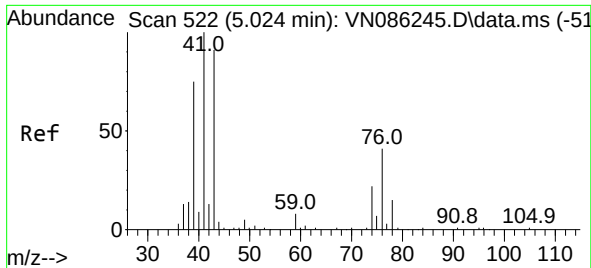
Tgt Ion:128 Resp: 33842
Ion Ratio Lower Upper
128 100
49 172.4 0.0 452.5
130 126.1 0.0 315.0



#3
Chloromethane
Concen: 0.240 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086271.D
Acq: 14 Apr 2025 16:02

Tgt Ion: 50 Resp: 898
Ion Ratio Lower Upper
50 100
52 63.3 26.4 39.6#

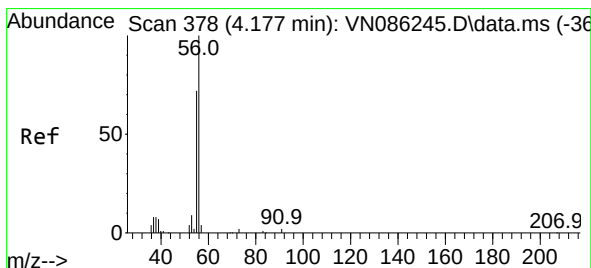
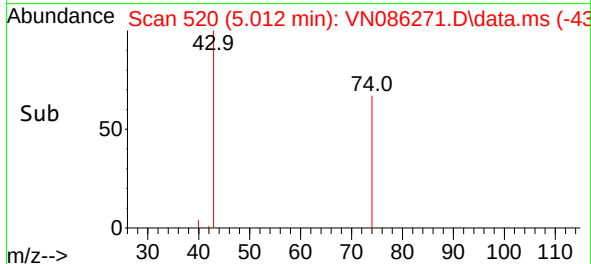
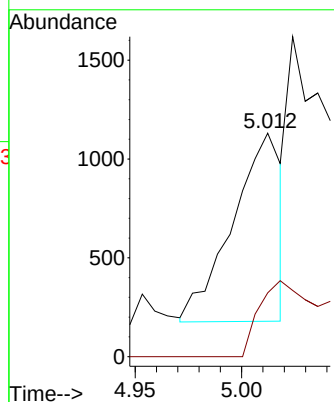
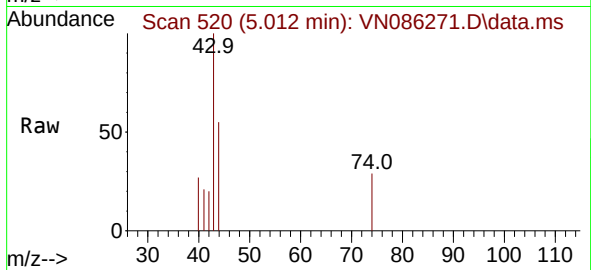




#12
Methyl Acetate
Concen: 0.419 ug/l
RT: 5.012 min Scan# 51
Delta R.T. -0.012 min
Lab File: VN086271.D
Acq: 14 Apr 2025 16:02

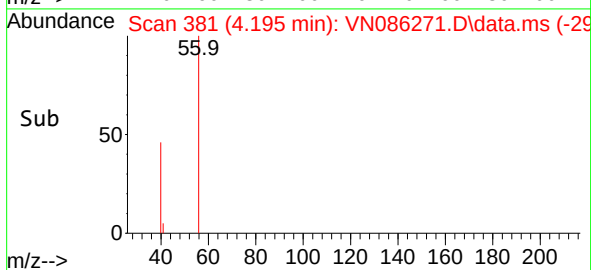
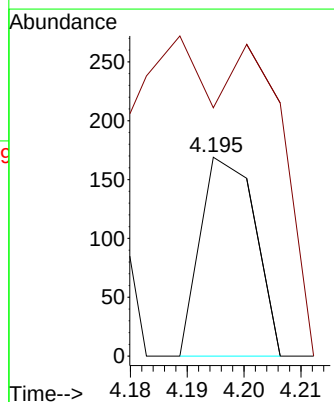
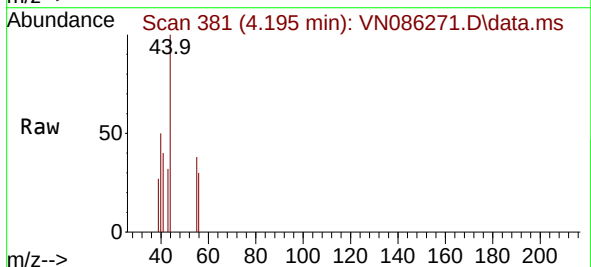
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#11

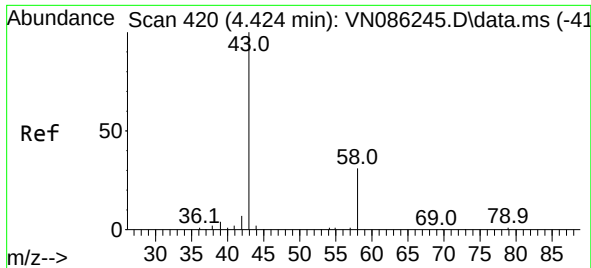
Tgt Ion: 43 Resp: 1525
Ion Ratio Lower Upper
43 100
74 24.0 19.1 28.7



#13
Acrolein
Concen: 0.273 ug/l
RT: 4.195 min Scan# 381
Delta R.T. 0.018 min
Lab File: VN086271.D
Acq: 14 Apr 2025 16:02

Tgt Ion: 56 Resp: 113
Ion Ratio Lower Upper
56 100
55 77.0 56.5 84.7





#15

Acetone

Concen: 30.311 ug/l

RT: 4.430 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN086271.D

Acq: 14 Apr 2025 16:02

Instrument :

MSVOA_N

ClientSampleId :

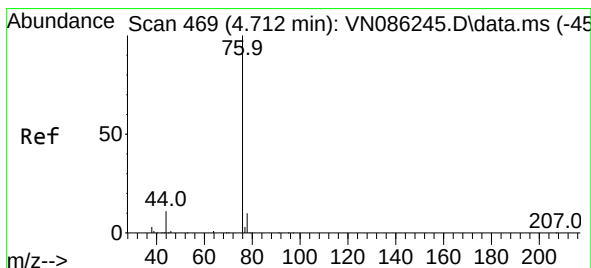
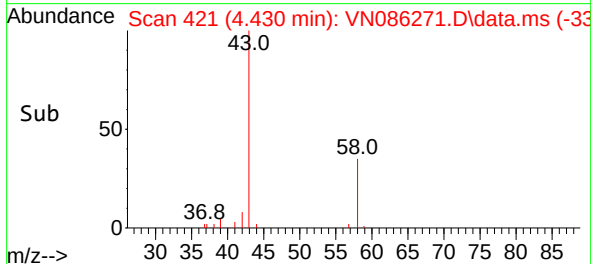
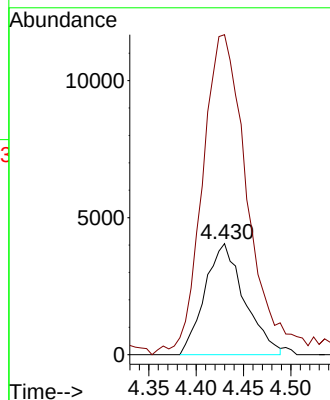
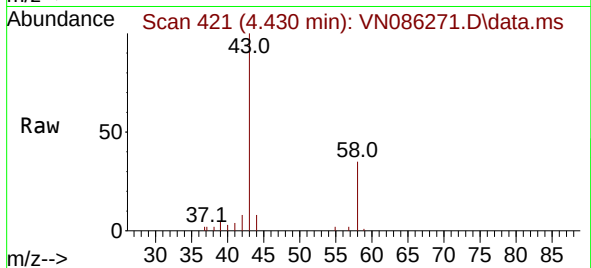
PB167573ZHE#11

Tgt Ion: 58 Resp: 11807

Ion Ratio Lower Upper

58 100

43 273.0 261.8 392.8



#16

Carbon Disulfide

Concen: 0.626 ug/l

RT: 4.712 min Scan# 469

Delta R.T. -0.000 min

Lab File: VN086271.D

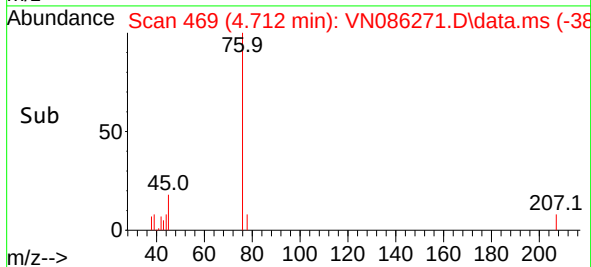
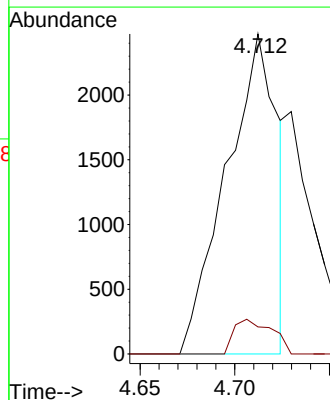
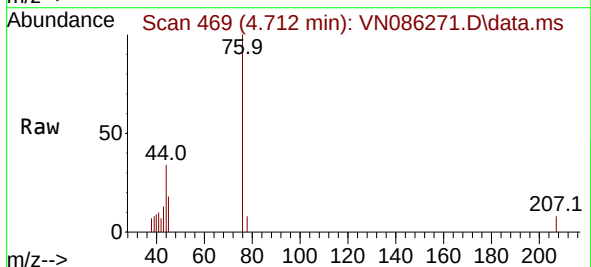
Acq: 14 Apr 2025 16:02

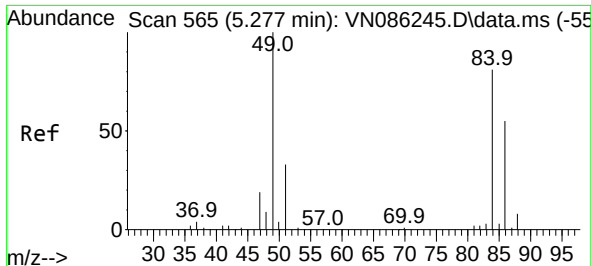
Tgt Ion: 76 Resp: 4624

Ion Ratio Lower Upper

76 100

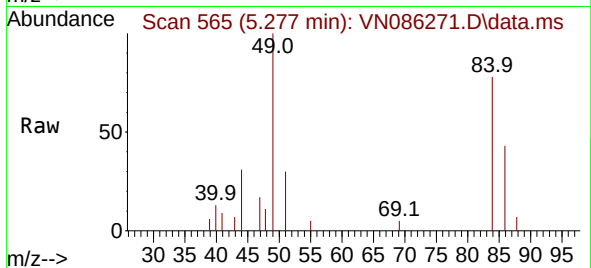
78 8.5 7.7 11.5



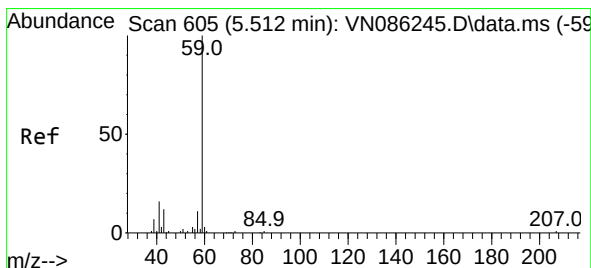
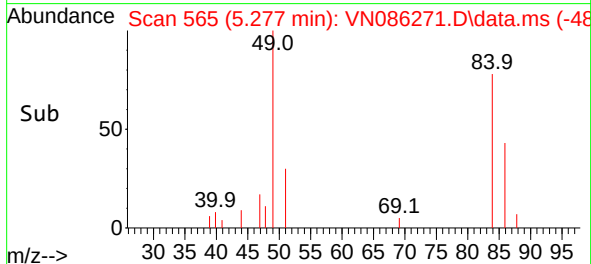
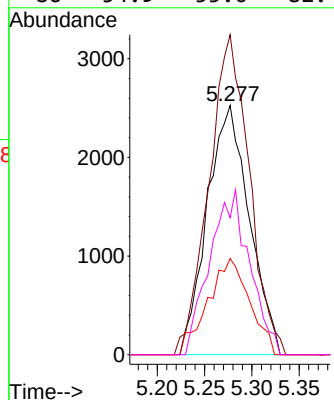


#18
Methylene Chloride
Concen: 2.664 ug/l
RT: 5.277 min Scan# 50
Delta R.T. -0.000 min
Lab File: VN086271.D
Acq: 14 Apr 2025 16:02

Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#11

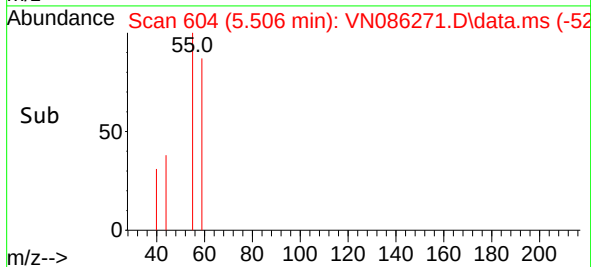
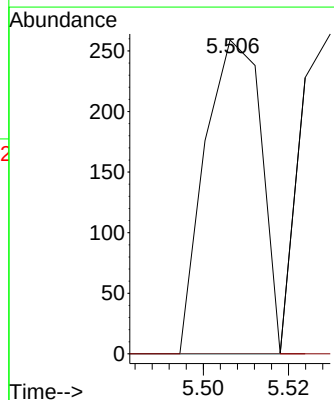
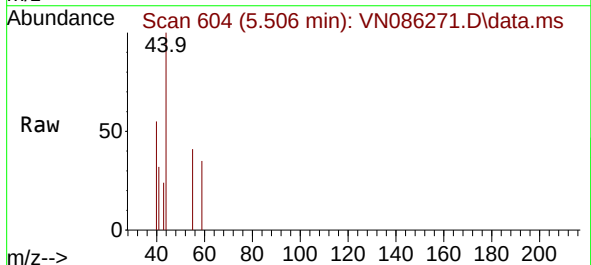


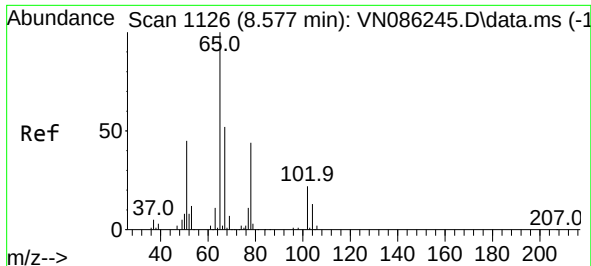
Tgt Ion: 84	Resp: 7828
Ion Ratio	Lower Upper
84 100	
49 121.9	99.1 148.7
51 38.6	32.3 48.5
86 54.9	55.0 82.4#



#23
tert-Butyl Alcohol
Concen: 0.372 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.006 min
Lab File: VN086271.D
Acq: 14 Apr 2025 16:02

Tgt Ion: 59	Resp: 237		
Ion Ratio	Lower	Upper	
59 100			
52 0.0	0.0	0.0	

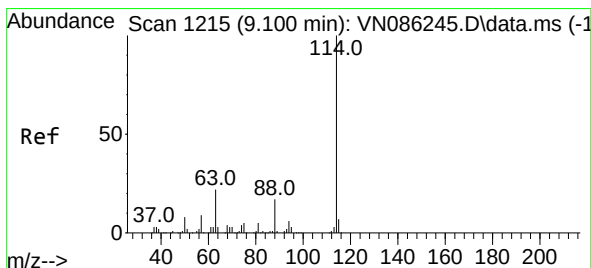
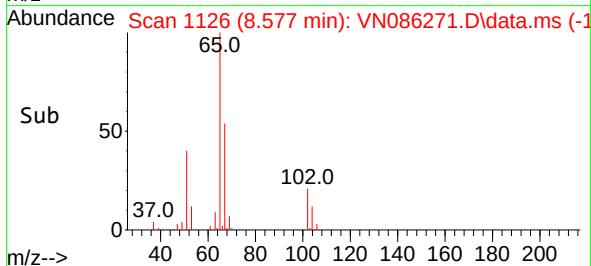
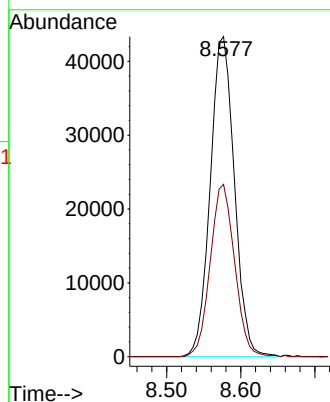
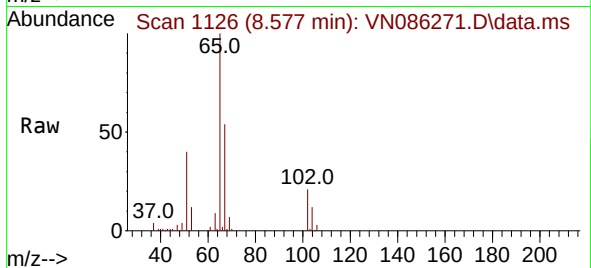




#27
1,2-Dichloroethane-d4
Concen: 29.738 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086271.D
Acq: 14 Apr 2025 16:02

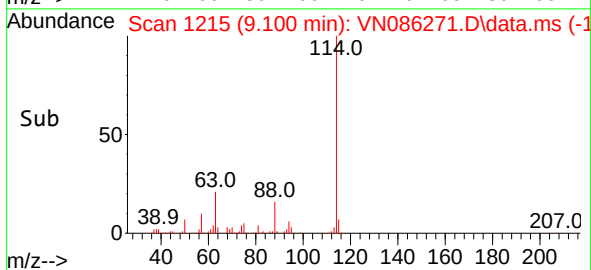
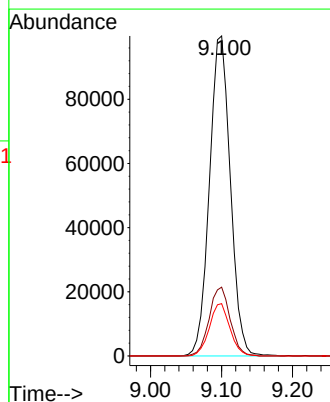
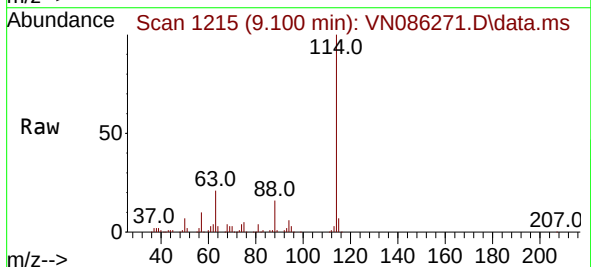
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#11

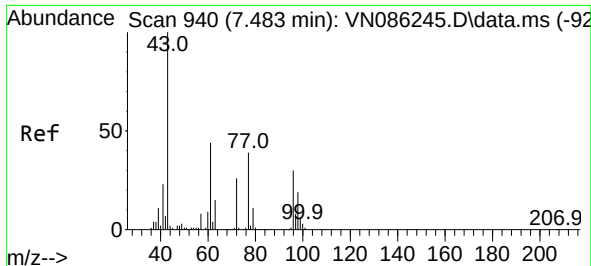
Tgt Ion: 65 Resp: 98161
Ion Ratio Lower Upper
65 100
67 54.2 43.4 65.2



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN086271.D
Acq: 14 Apr 2025 16:02

Tgt Ion: 114 Resp: 203544
Ion Ratio Lower Upper
114 100
63 21.6 17.8 26.6
88 16.1 13.4 20.2

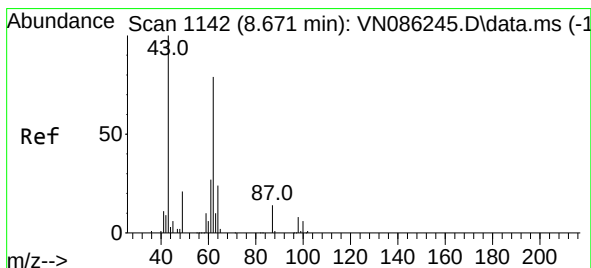
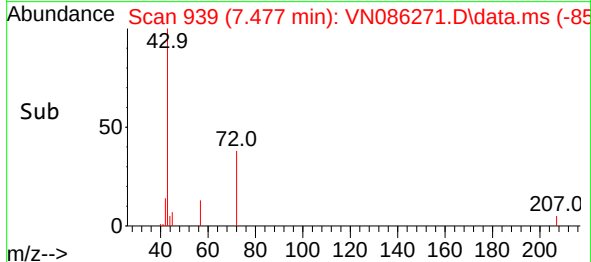
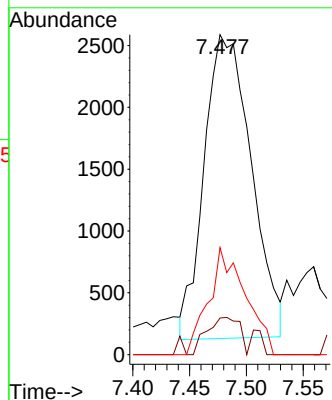
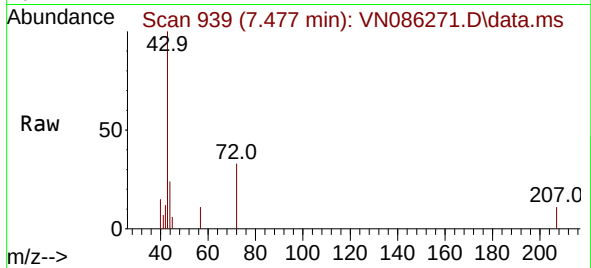




#30
2-Butanone
Concen: 3.505 ug/l
RT: 7.477 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN086271.D
Acq: 14 Apr 2025 16:02

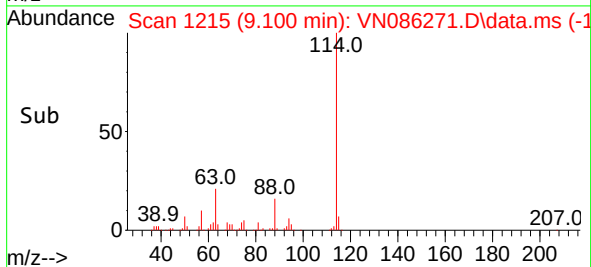
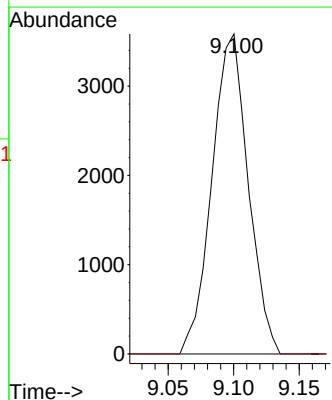
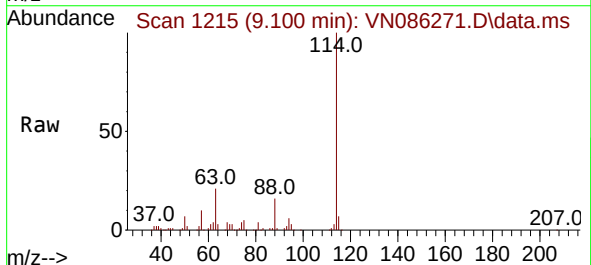
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MSVOA_N
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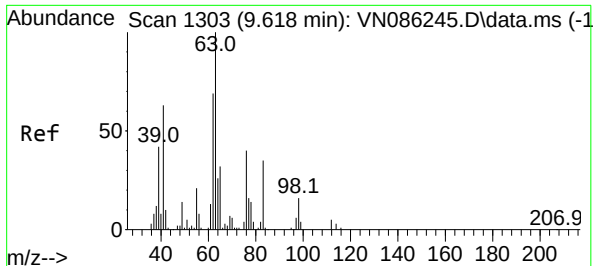
Tgt Ion: 43 Resp: 7082
Ion Ratio Lower Upper
43 100
57 7.2 6.4 9.6
72 27.5 21.5 32.3



#36
1,2-Dichloroethane
Concen: 1.899 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.429 min
Lab File: VN086271.D
Acq: 14 Apr 2025 16:02

Tgt Ion: 62 Resp: 6892
Ion Ratio Lower Upper
62 100
98 0.0 8.6 12.8





#39

1,2-Dichloropropane

Concen: 0.393 ug/l

RT: 9.735 min Scan# 1134

Delta R.T. 0.118 min

Lab File: VN086271.D

Acq: 14 Apr 2025 16:02

Instrument :

MSVOA_N

ClientSampleId :

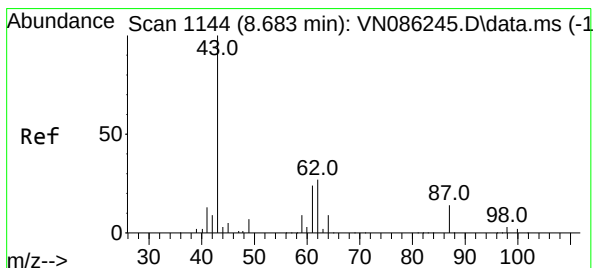
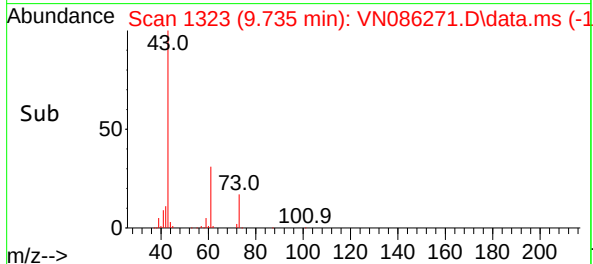
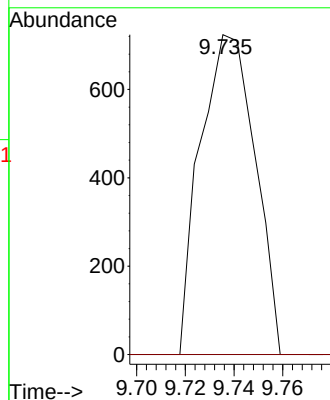
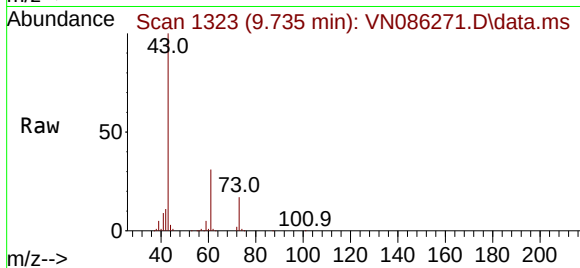
PB167573ZHE#11

Tgt Ion: 63 Resp: 1134

Ion Ratio Lower Upper

63 100

65 0.0 26.0 39.0#



#44

Isopropyl Acetate

Concen: 6.839 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN086271.D

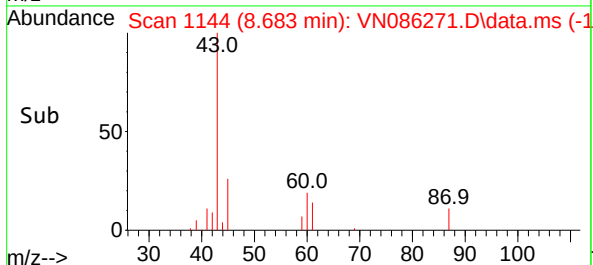
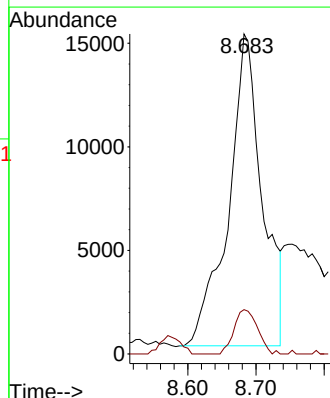
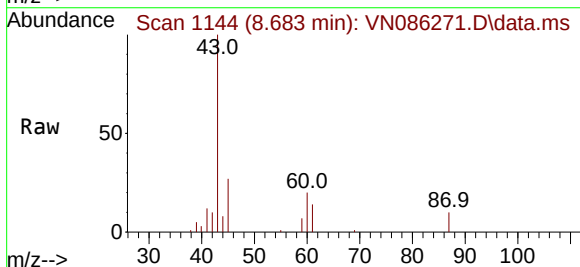
Acq: 14 Apr 2025 16:02

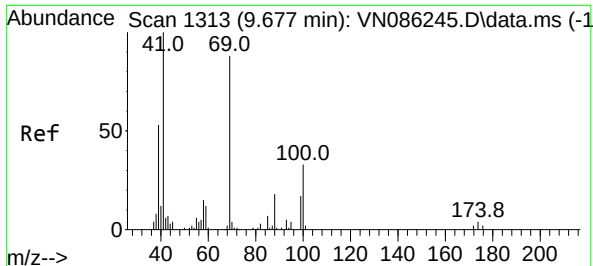
Tgt Ion: 43 Resp: 51707

Ion Ratio Lower Upper

43 100

61 9.8 20.5 30.7#

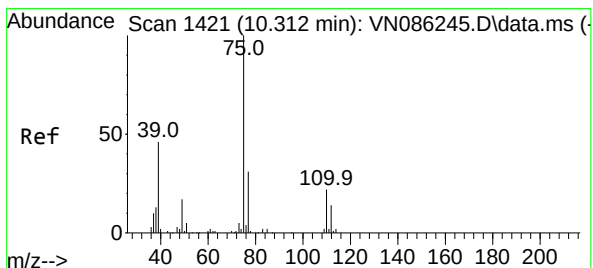
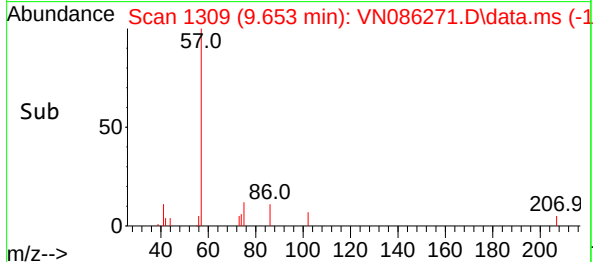
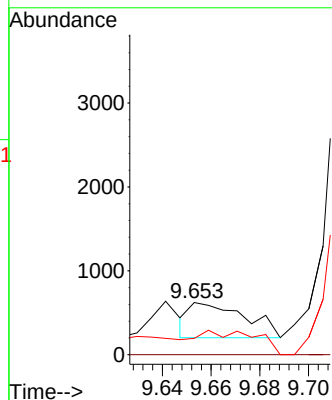
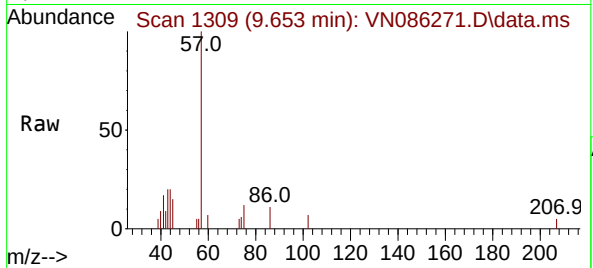




#46
Methyl methacrylate
Concen: 0.200 ug/l
RT: 9.653 min Scan# 1309
Delta R.T. -0.024 min
Lab File: VN086271.D
Acq: 14 Apr 2025 16:02

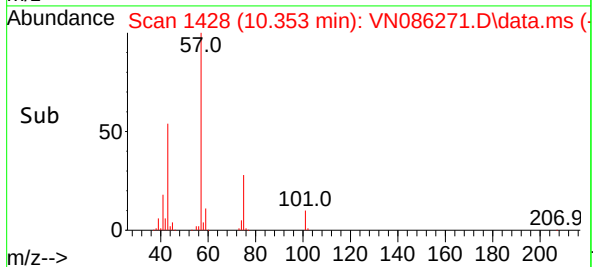
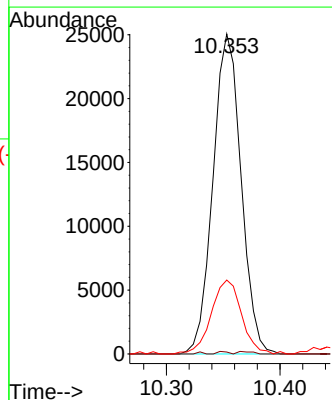
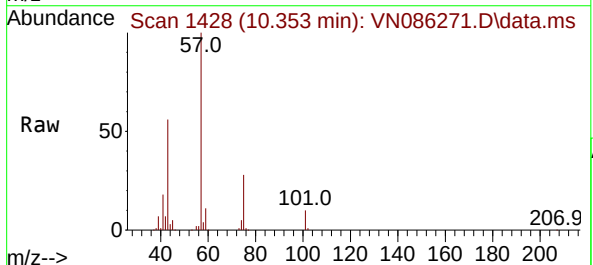
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#11

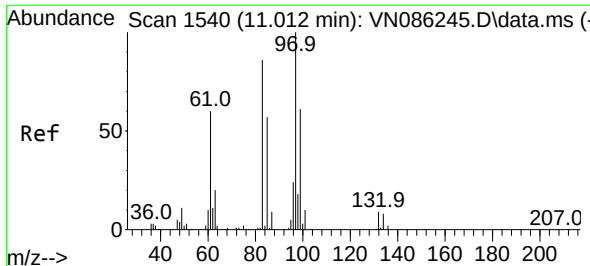
Tgt Ion: 41 Resp: 667
Ion Ratio Lower Upper
41 100
69 0.0 43.2 129.6#
39 46.4 26.4 79.0



#49
cis-1,3-Dichloropropene
Concen: 8.997 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.041 min
Lab File: VN086271.D
Acq: 14 Apr 2025 16:02

Tgt Ion: 75 Resp: 43115
Ion Ratio Lower Upper
75 100
77 0.6 25.0 37.4#
39 22.5 36.7 55.1#

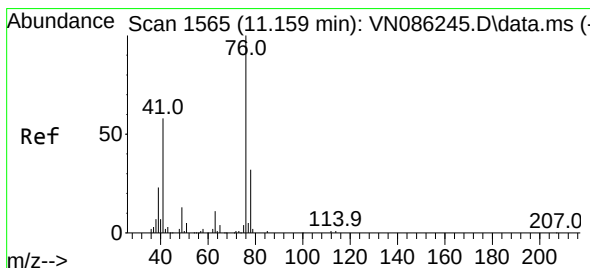
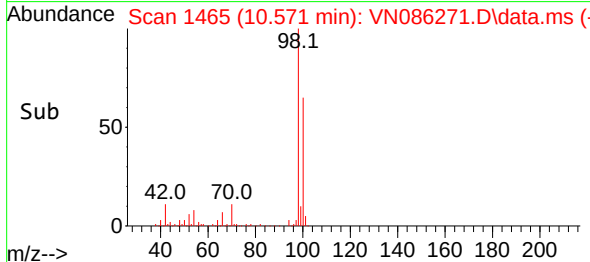
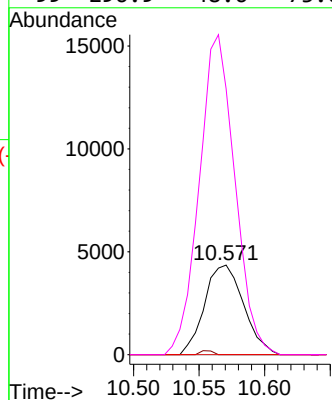
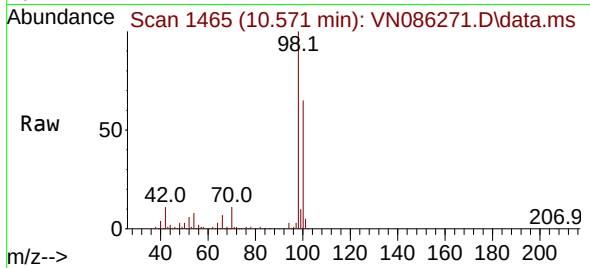




#50
1,1,2-Trichloroethane
Concen: 3.455 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.441 min
Lab File: VN086271.D
Acq: 14 Apr 2025 16:02

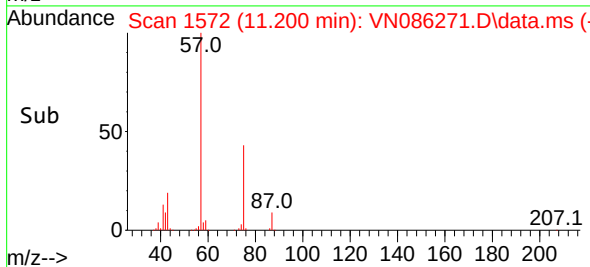
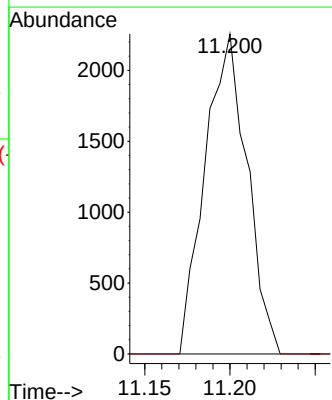
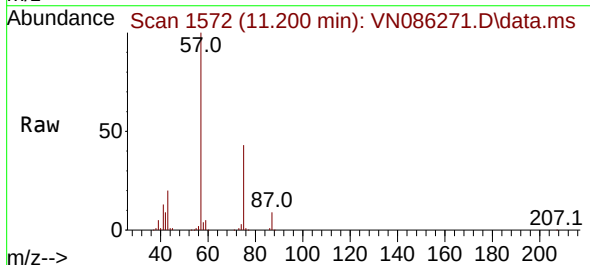
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#11

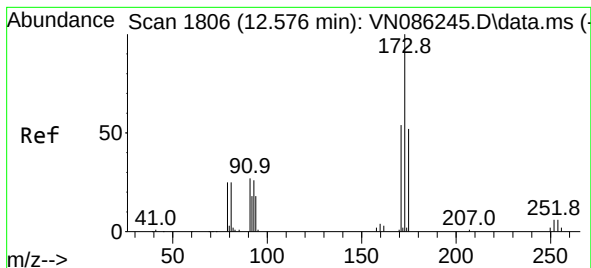
Tgt Ion: 97 Resp: 9033
Ion Ratio Lower Upper
97 100
83 0.0 68.6 103.0#
85 0.0 45.9 68.9#
99 296.9 48.6 73.0#



#52
1,3-Dichloropropane
Concen: 0.831 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN086271.D
Acq: 14 Apr 2025 16:02

Tgt Ion: 76 Resp: 3873
Ion Ratio Lower Upper
76 100
78 0.0 0.0 64.6





#56

Bromoform

Concen: 0.261 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.271 min

Lab File: VN086271.D

Acq: 14 Apr 2025 16:02

Instrument :

MSVOA_N

ClientSampleId :

PB167573ZHE#11

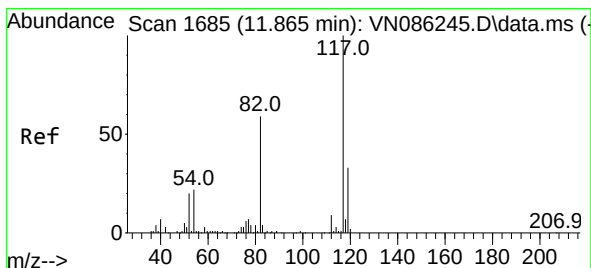
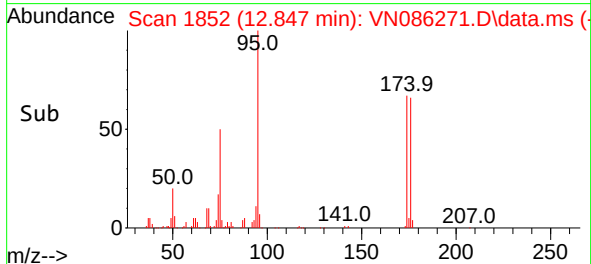
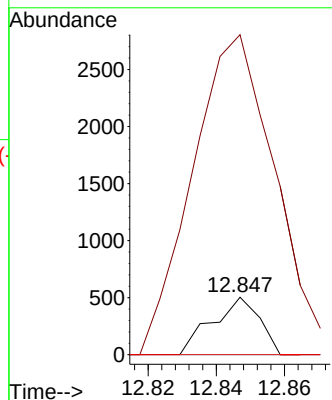
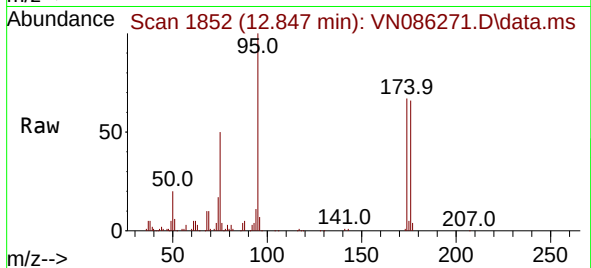
Tgt Ion:173 Resp: 488

Ion Ratio Lower Upper

173 100

175 964.5 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: VN086271.D

Acq: 14 Apr 2025 16:02

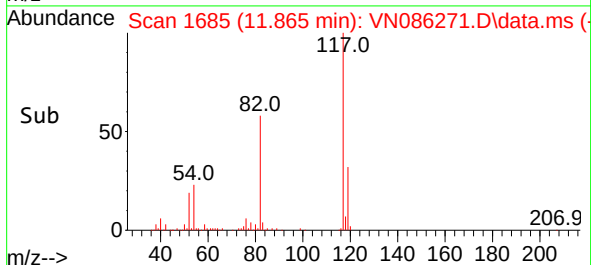
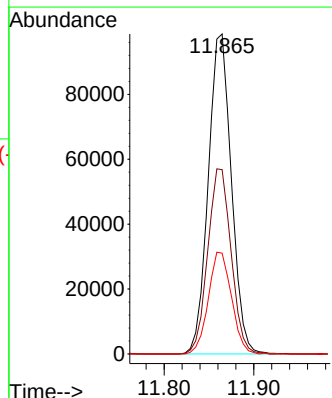
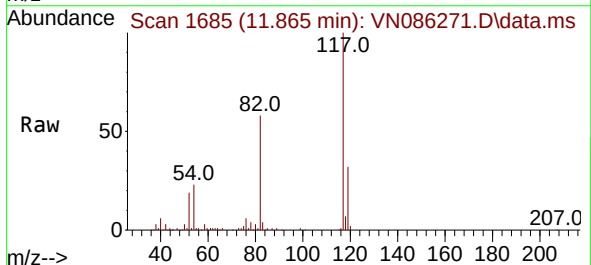
Tgt Ion:117 Resp: 176498

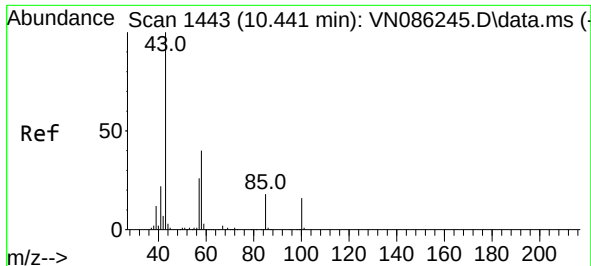
Ion Ratio Lower Upper

117 100

82 58.6 47.3 70.9

119 31.9 25.9 38.9

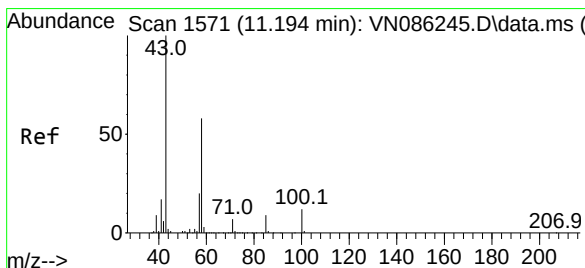
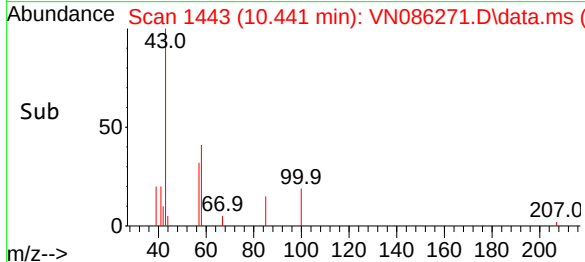
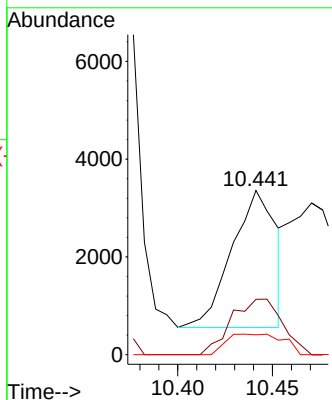
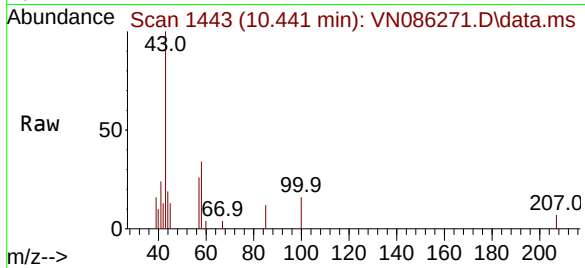




#58
4-Methyl-2-Pentanone
Concen: 1.136 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086271.D
Acq: 14 Apr 2025 16:02

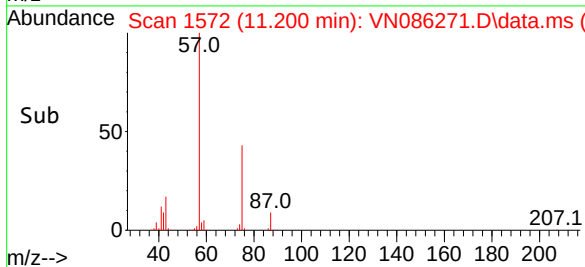
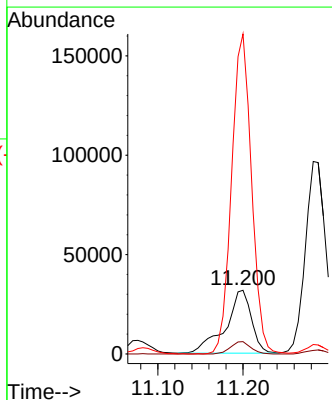
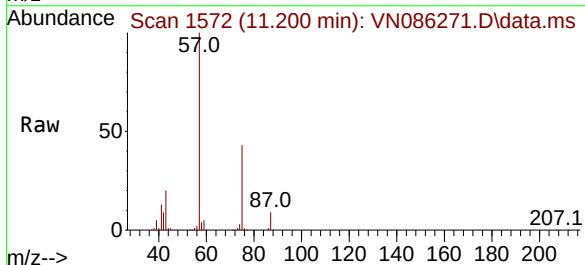
Instrument : MSVOA_N
ClientSampleId : PB167573ZHE#11

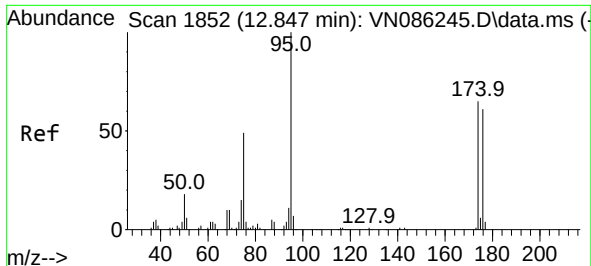
Tgt Ion: 43 Resp: 4549
Ion Ratio Lower Upper
43 100
58 46.8 32.5 48.7
85 11.3 14.4 21.6#



#59
2-Hexanone
Concen: 22.387 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN086271.D
Acq: 14 Apr 2025 16:02

Tgt Ion: 43 Resp: 66767
Ion Ratio Lower Upper
43 100
58 15.3 45.3 67.9#
57 392.5 15.8 23.6#

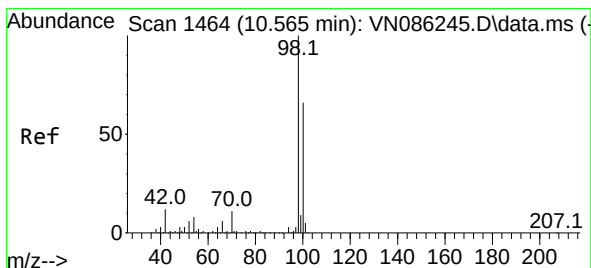
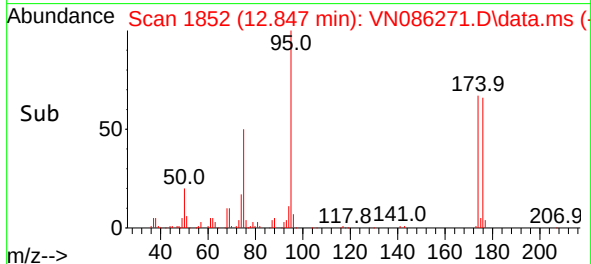
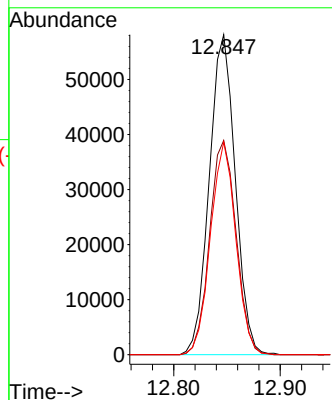
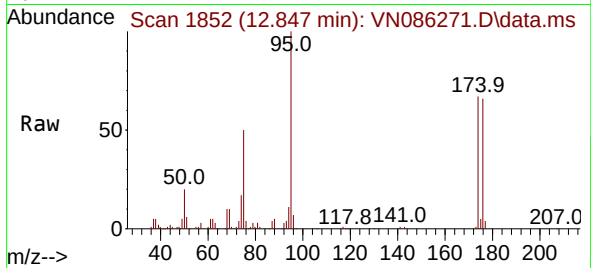




#60
4-Bromofluorobenzene
Concen: 28.046 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086271.D
Acq: 14 Apr 2025 16:02

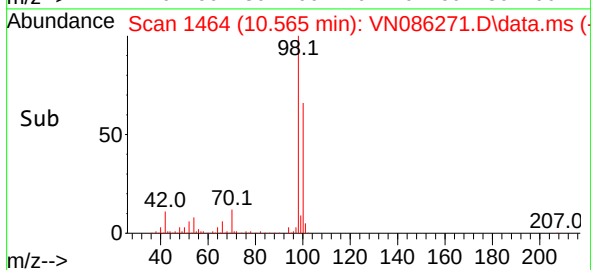
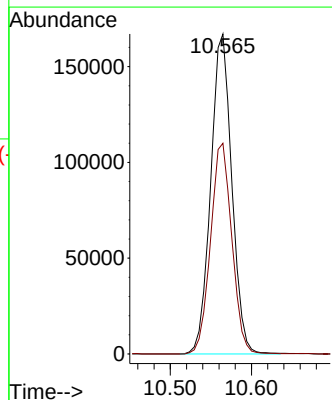
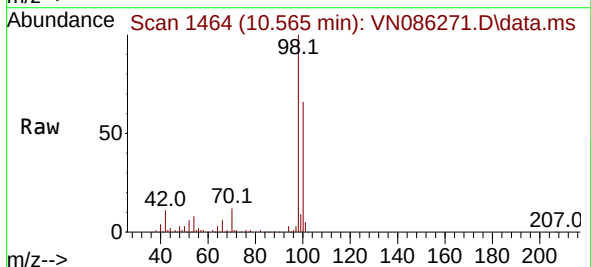
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#11

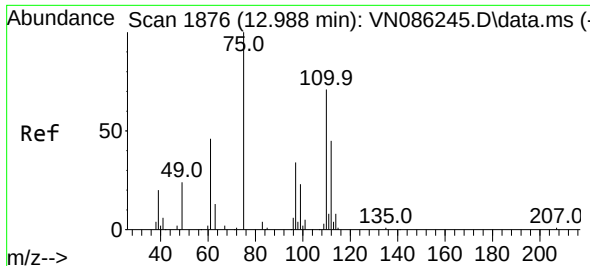
Tgt Ion: 95 Resp: 98553
Ion Ratio Lower Upper
95 100
174 68.2 52.7 79.1
176 64.8 49.8 74.8



#63
Toluene-d8
Concen: 30.228 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086271.D
Acq: 14 Apr 2025 16:02

Tgt Ion: 98 Resp: 301204
Ion Ratio Lower Upper
98 100
100 66.5 52.3 78.5

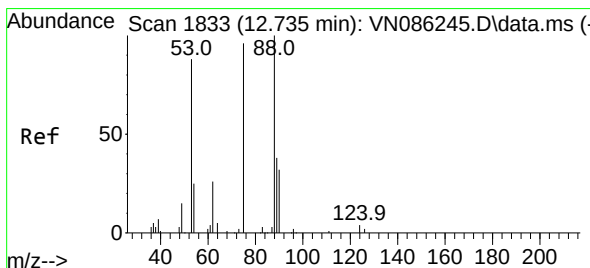
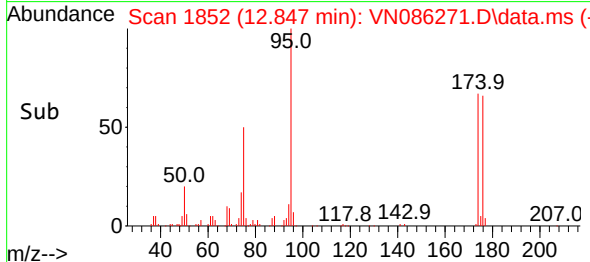
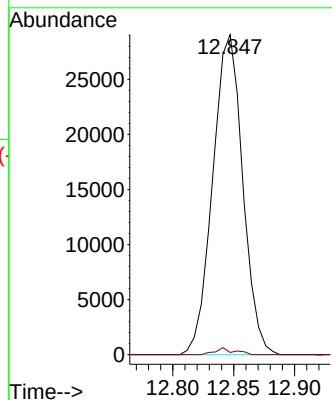
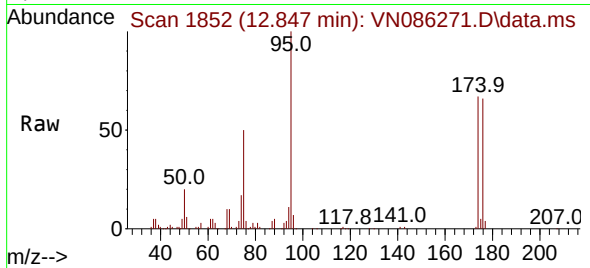




#72
1,2,3-Trichloropropane
Concen: 14.205 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086271.D
Acq: 14 Apr 2025 16:02

Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#11

Tgt Ion: 75 Resp: 49827
Ion Ratio Lower Upper
75 100
77 0.4 0.0 380.0



#77
t-1,4-Dichloro-2-butene
Concen: 30.806 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086271.D
Acq: 14 Apr 2025 16:02

Tgt Ion: 75 Resp: 49827
Ion Ratio Lower Upper
75 100
53 0.0 46.4 139.2#
89 0.0 22.5 67.5#

