

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041425\
 Data File : VN086270.D
 Acq On : 14 Apr 2025 15:38
 Operator : JC\MD
 Sample : PB167573ZHE#10
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167573ZHE#10

Quant Time: Apr 15 03:12:18 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)

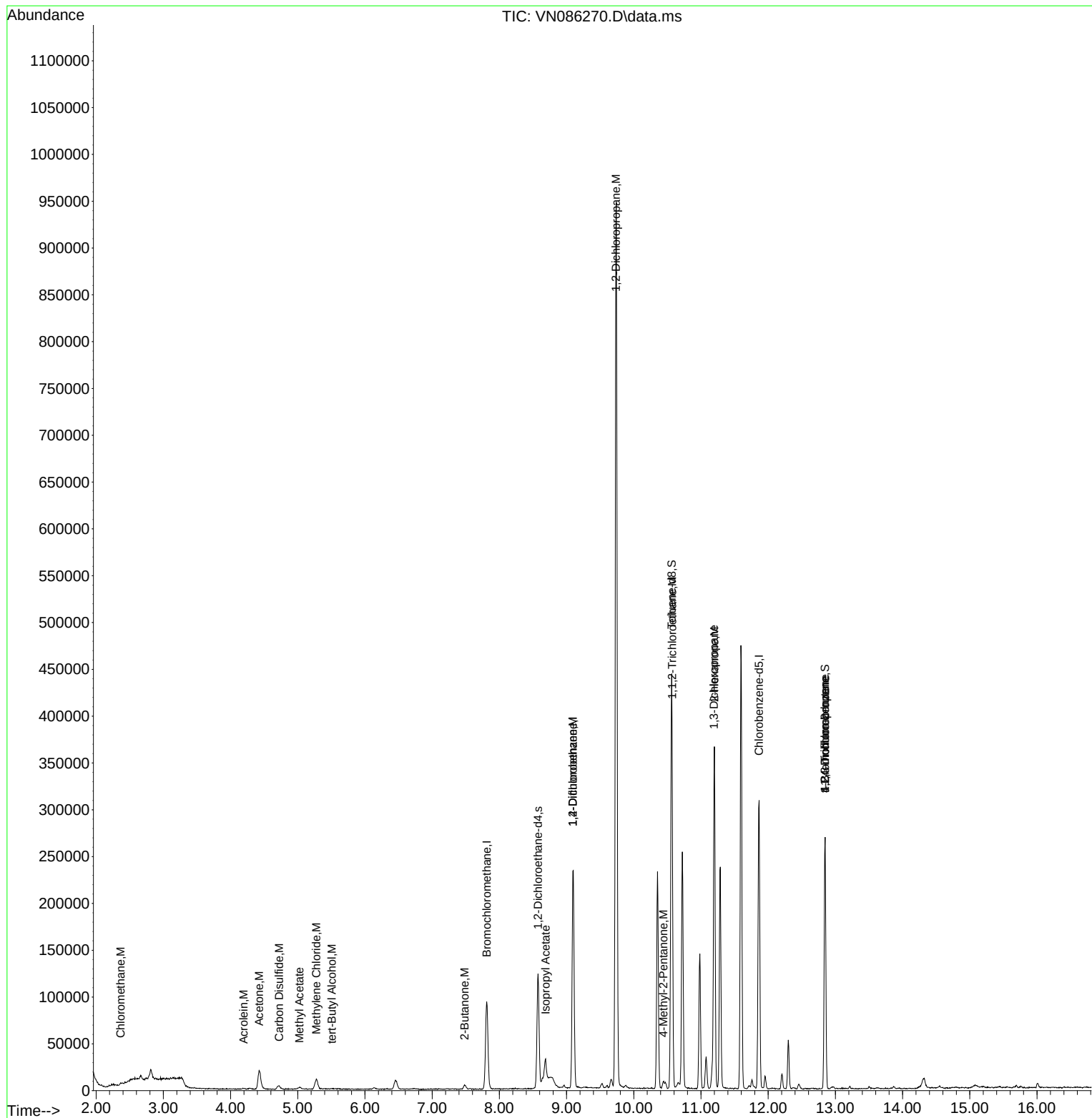
Internal Standards						
1) Bromochloromethane	7.812	128	33620	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	205871	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	182708	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	99877	30.458	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.533%			
60) 4-Bromofluorobenzene	12.847	95	102722	28.239	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 94.133%			
63) Toluene-d8	10.565	98	308453	29.904	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.667%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	923	0.248	ug/l	96
12) Methyl Acetate	5.024	43	2202	0.609	ug/l #	75
13) Acrolein	4.195	56	447	1.088	ug/l	90
15) Acetone	4.424	58	7720	19.950	ug/l	82
16) Carbon Disulfide	4.724	76	7163	0.976	ug/l	100
18) Methylene Chloride	5.277	84	8173	2.800	ug/l	95
23) tert-Butyl Alcohol	5.506	59	315	0.498	ug/l #	100
30) 2-Butanone	7.483	43	6818	3.336	ug/l #	97
36) 1,2-Dichloroethane	9.094	62	7250	1.975	ug/l #	72
39) 1,2-Dichloropropane	9.735	63	1242	0.425	ug/l #	42
44) Isopropyl Acetate	8.688	43	25599	3.348	ug/l #	89
50) 1,1,2-Trichloroethane	10.571	97	9120	3.448	ug/l #	1
52) 1,3-Dichloropropane	11.194	76	3797	0.806	ug/l #	42
58) 4-Methyl-2-Pentanone	10.441	43	4950	1.194	ug/l #	74
59) 2-Hexanone	11.200	43	57125	18.503	ug/l #	1
72) 1,2,3-Trichloropropane	12.847	75	51408	14.157	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	51408	30.703	ug/l #	12

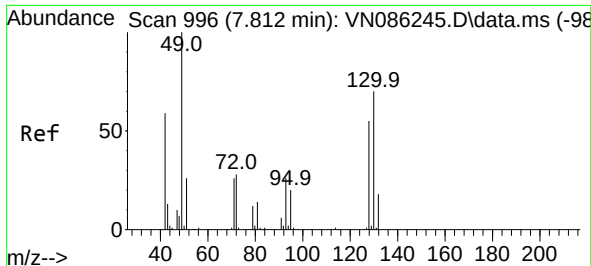
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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PB167573ZHE#10

Quant Time: Apr 15 03:12:18 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

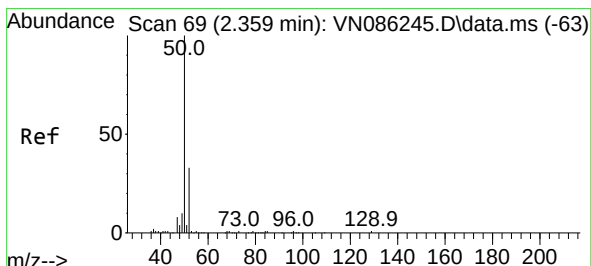
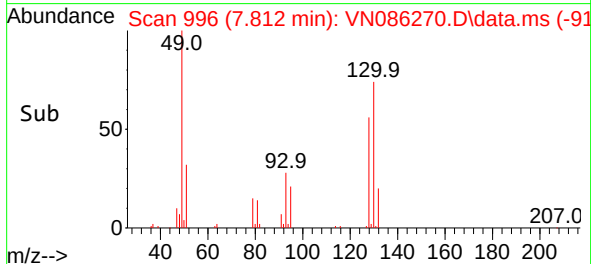
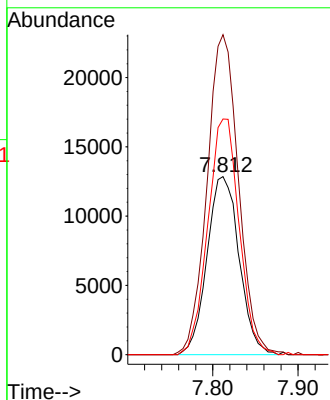
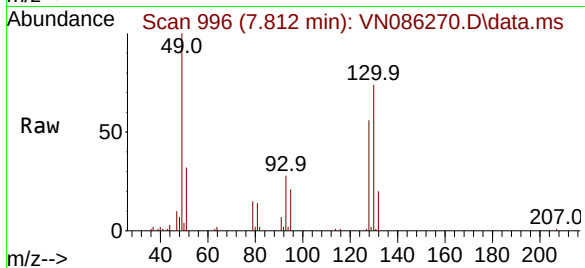




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN086270.D
Acq: 14 Apr 2025 15:38

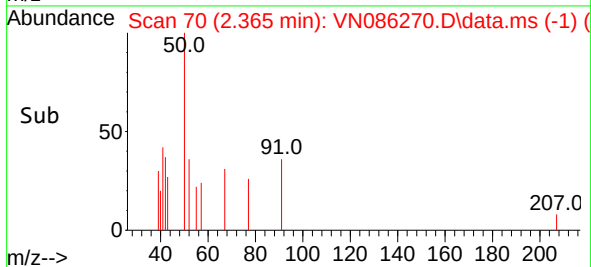
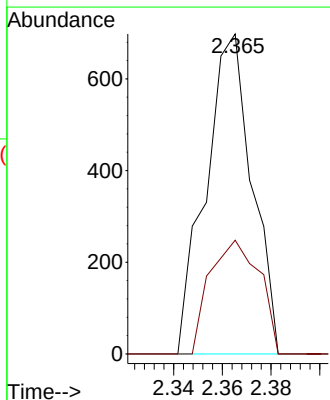
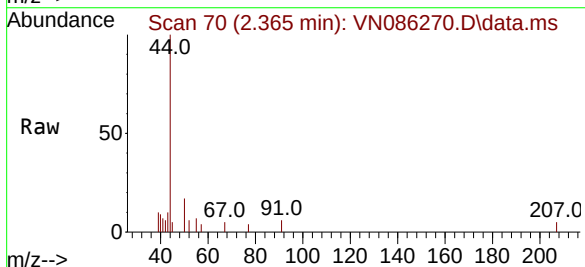
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#10

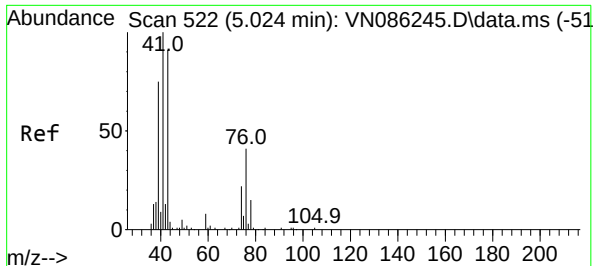
Tgt Ion:128 Resp: 33620
Ion Ratio Lower Upper
128 100
49 176.2 0.0 452.5
130 129.3 0.0 315.0



#3
Chloromethane
Concen: 0.248 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086270.D
Acq: 14 Apr 2025 15:38

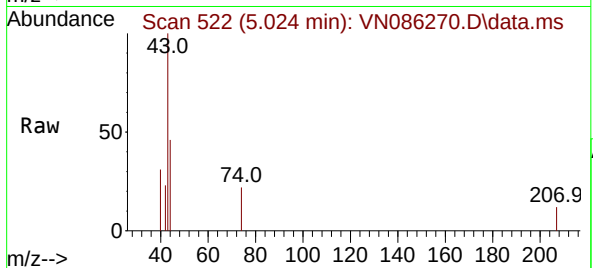
Tgt Ion: 50 Resp: 923
Ion Ratio Lower Upper
50 100
52 35.5 26.4 39.6



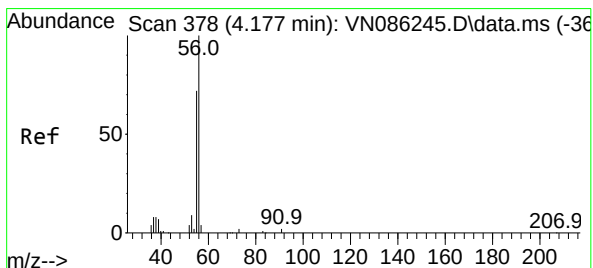
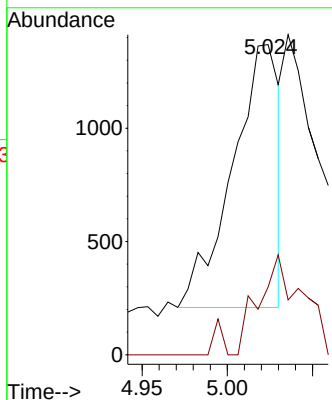
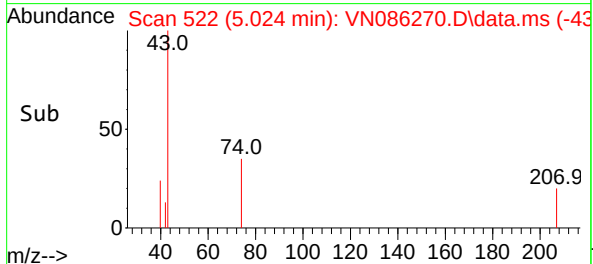


#12
Methyl Acetate
Concen: 0.609 ug/l
RT: 5.024 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN086270.D
Acq: 14 Apr 2025 15:38

Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#10

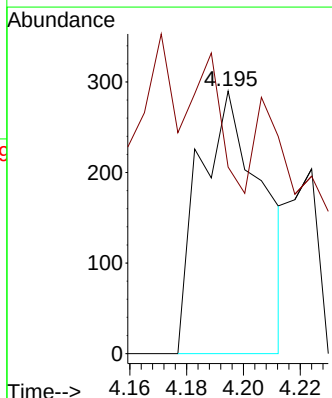
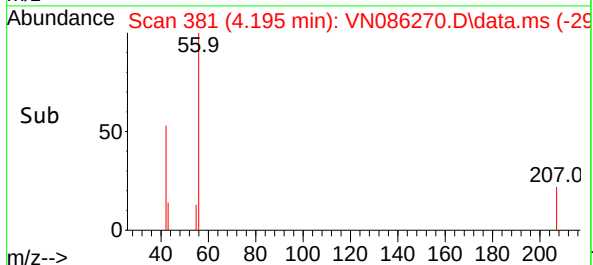
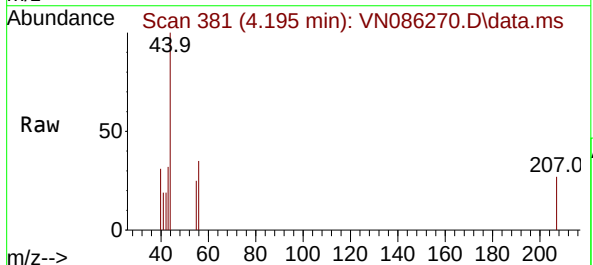


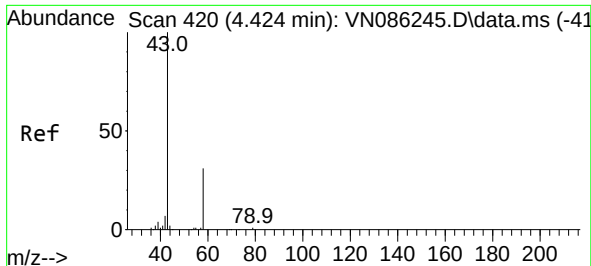
Tgt Ion: 43 Resp: 2202
Ion Ratio Lower Upper
43 100
74 11.7 19.1 28.7#



#13
Acrolein
Concen: 1.088 ug/l
RT: 4.195 min Scan# 381
Delta R.T. 0.018 min
Lab File: VN086270.D
Acq: 14 Apr 2025 15:38

Tgt Ion: 56 Resp: 447
Ion Ratio Lower Upper
56 100
55 79.0 56.5 84.7





#15

Acetone

Concen: 19.950 ug/l

RT: 4.424 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN086270.D

Acq: 14 Apr 2025 15:38

Instrument :

MSVOA_N

ClientSampleId :

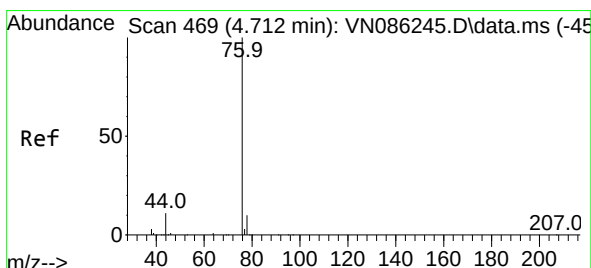
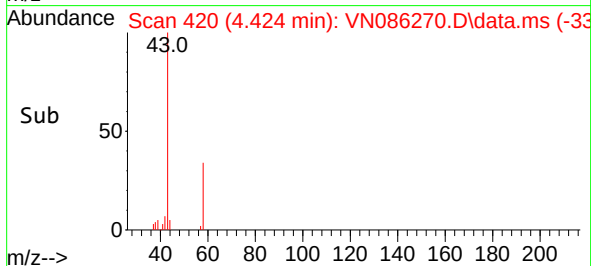
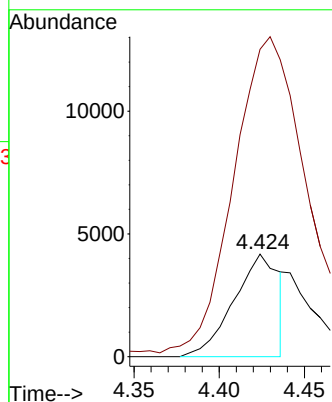
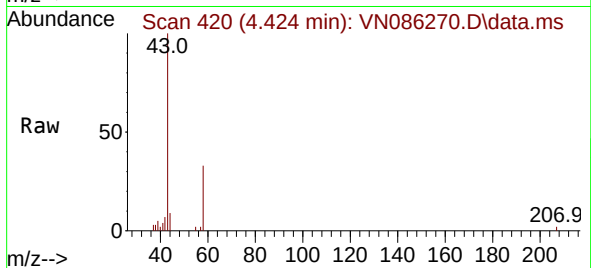
PB167573ZHE#10

Tgt Ion: 58 Resp: 7720

Ion Ratio Lower Upper

58 100

43 289.3 261.8 392.8



#16

Carbon Disulfide

Concen: 0.976 ug/l

RT: 4.724 min Scan# 471

Delta R.T. 0.012 min

Lab File: VN086270.D

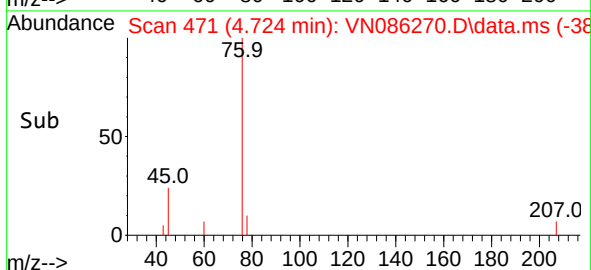
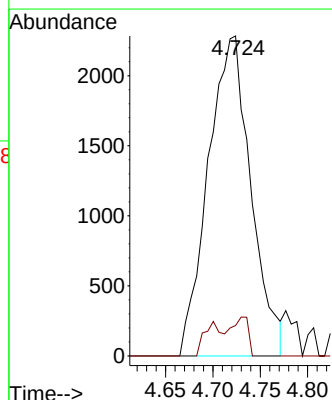
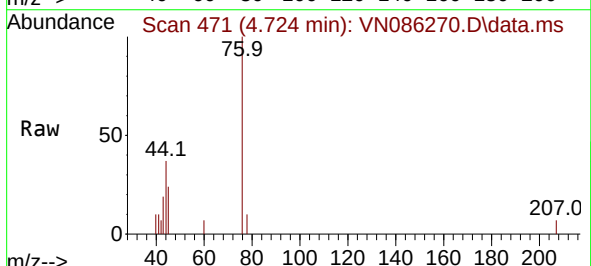
Acq: 14 Apr 2025 15:38

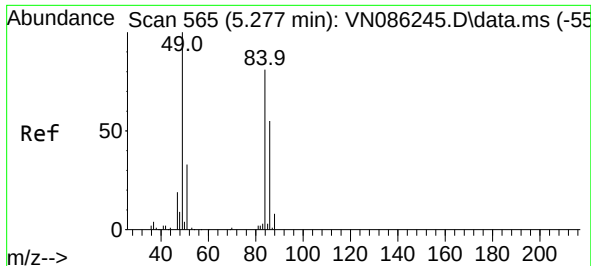
Tgt Ion: 76 Resp: 7163

Ion Ratio Lower Upper

76 100

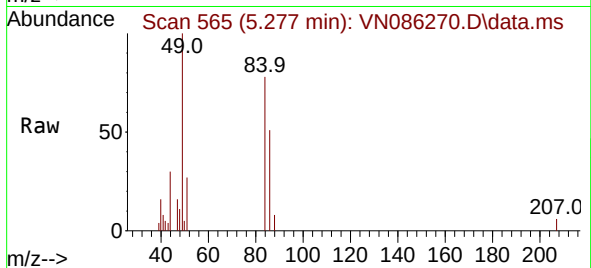
78 9.5 7.7 11.5



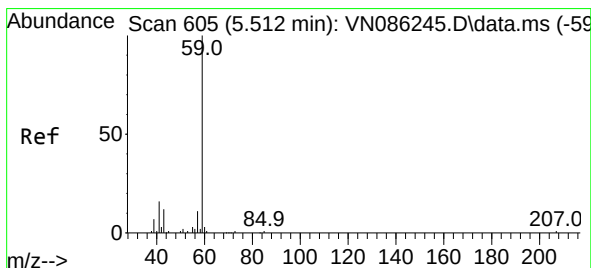
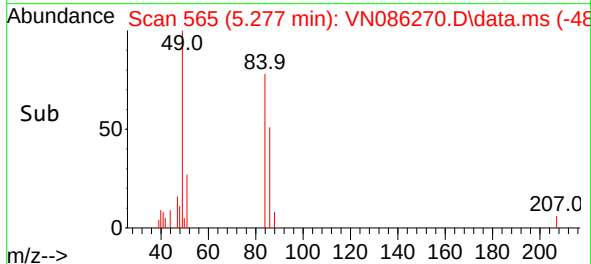
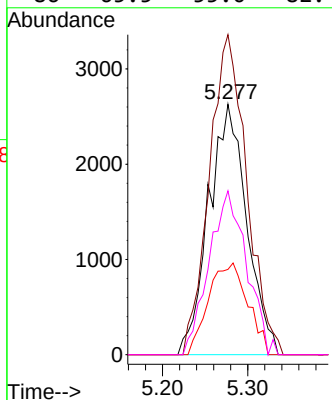


#18
Methylene Chloride
Concen: 2.800 ug/l
RT: 5.277 min Scan# 501
Delta R.T. -0.000 min
Lab File: VN086270.D
Acq: 14 Apr 2025 15:38

Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#10

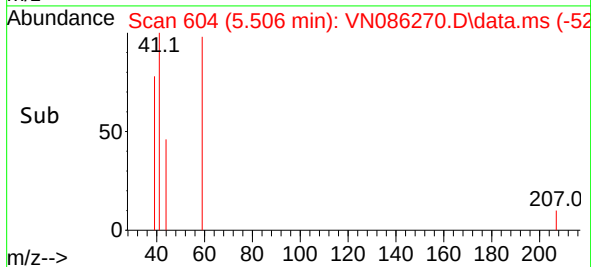
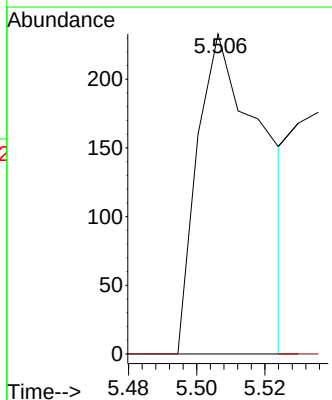
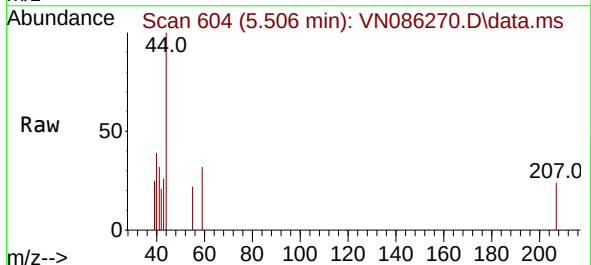


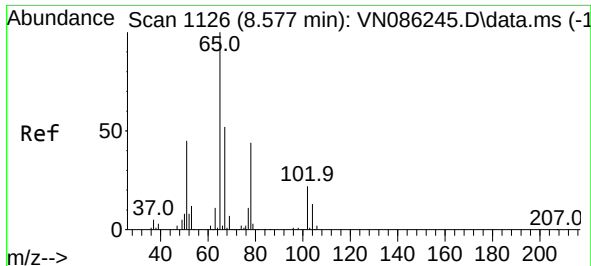
Tgt Ion:	84	Resp:	8173
Ion	Ratio	Lower	Upper
84	100		
49	127.8	99.1	148.7
51	34.0	32.3	48.5
86	65.5	55.0	82.4



#23
tert-Butyl Alcohol
Concen: 0.498 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.006 min
Lab File: VN086270.D
Acq: 14 Apr 2025 15:38

Tgt Ion:	59	Resp:	315
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

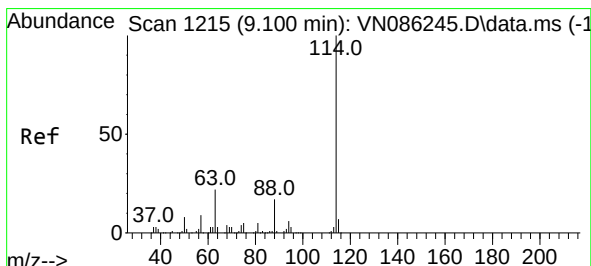
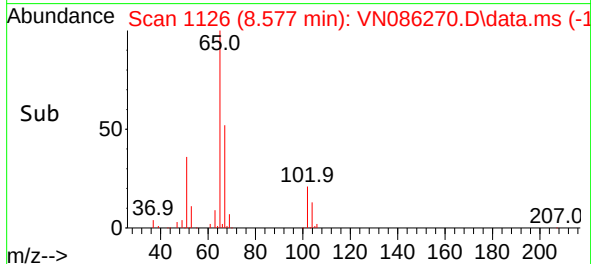
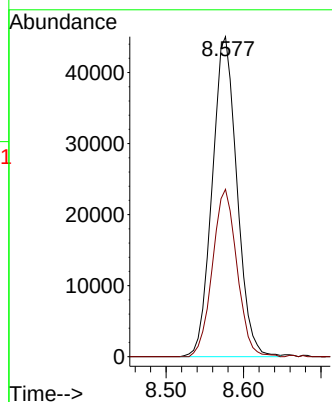
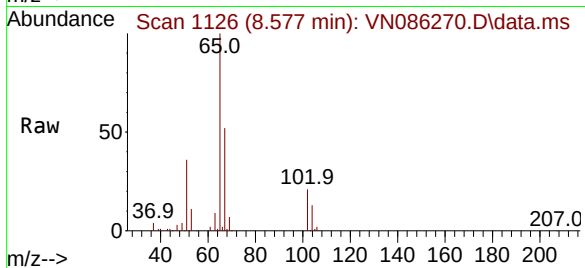




#27
 1,2-Dichloroethane-d4
 Concen: 30.458 ug/l
 RT: 8.577 min Scan# 1126
 Delta R.T. -0.000 min
 Lab File: VN086270.D
 Acq: 14 Apr 2025 15:38

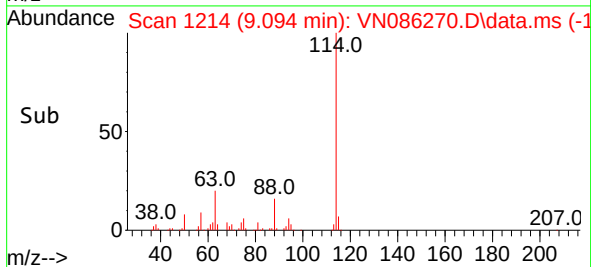
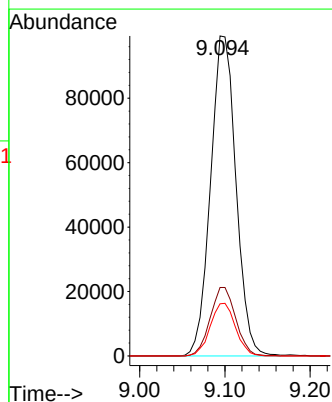
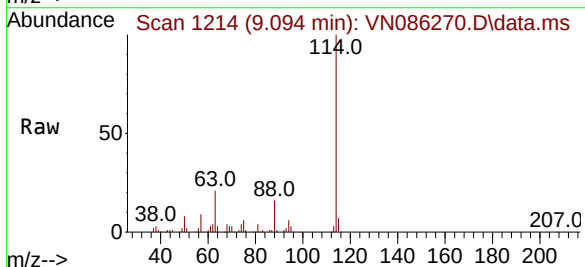
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167573ZHE#10

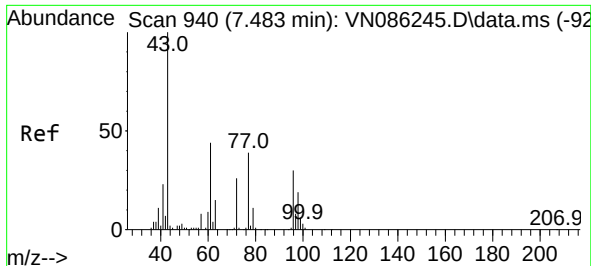
Tgt Ion: 65 Resp: 99877
 Ion Ratio Lower Upper
 65 100
 67 51.9 43.4 65.2



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.094 min Scan# 1214
 Delta R.T. -0.006 min
 Lab File: VN086270.D
 Acq: 14 Apr 2025 15:38

Tgt Ion: 114 Resp: 205871
 Ion Ratio Lower Upper
 114 100
 63 21.5 17.8 26.6
 88 16.4 13.4 20.2

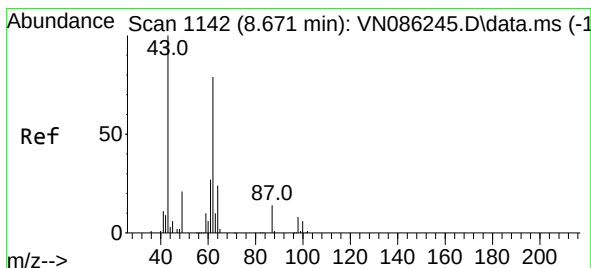
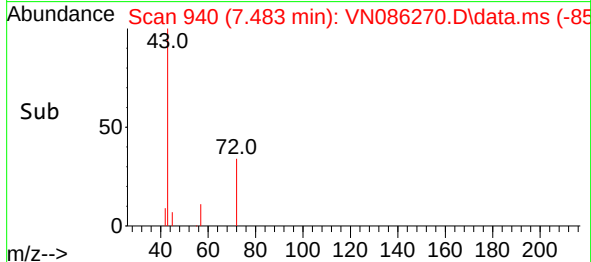
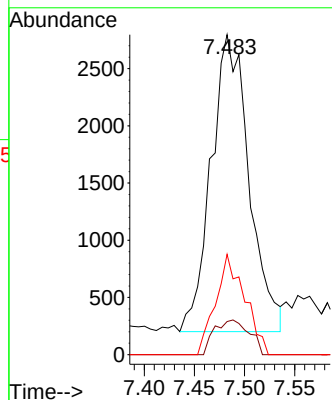
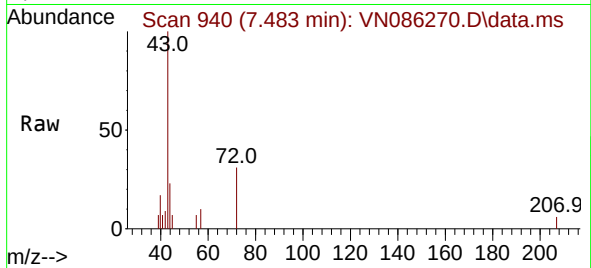




#30
2-Butanone
Concen: 3.336 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN086270.D
Acq: 14 Apr 2025 15:38

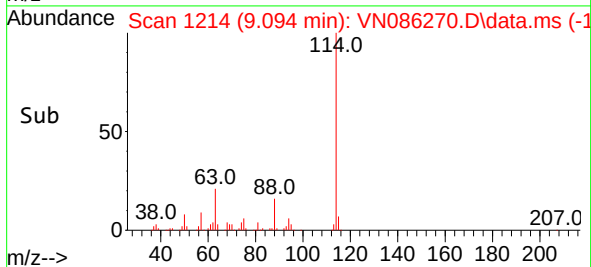
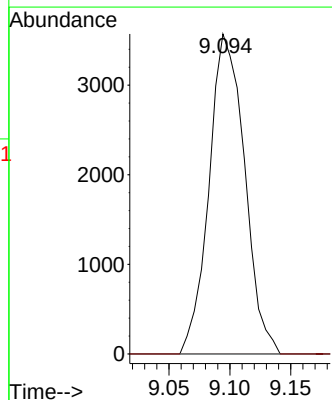
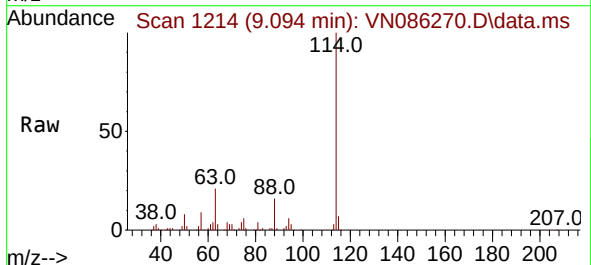
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MSVOA_N
ClientSampleId :
PB167573ZHE#10

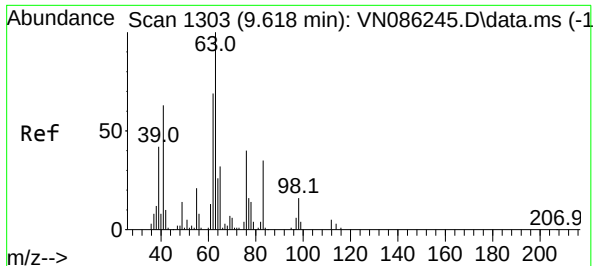
Tgt Ion: 43 Resp: 6818
Ion Ratio Lower Upper
43 100
57 10.7 6.4 9.6#
72 26.0 21.5 32.3



#36
1,2-Dichloroethane
Concen: 1.975 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. 0.423 min
Lab File: VN086270.D
Acq: 14 Apr 2025 15:38

Tgt Ion: 62 Resp: 7250
Ion Ratio Lower Upper
62 100
98 0.0 8.6 12.8#





#39

1,2-Dichloropropane

Concen: 0.425 ug/l

RT: 9.735 min Scan# 1144

Delta R.T. 0.118 min

Lab File: VN086270.D

Acq: 14 Apr 2025 15:38

Instrument :

MSVOA_N

ClientSampleId :

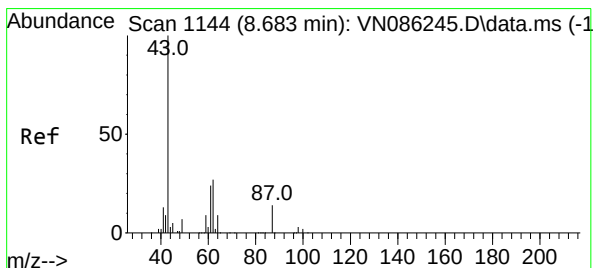
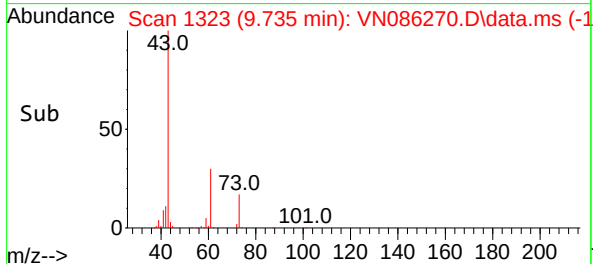
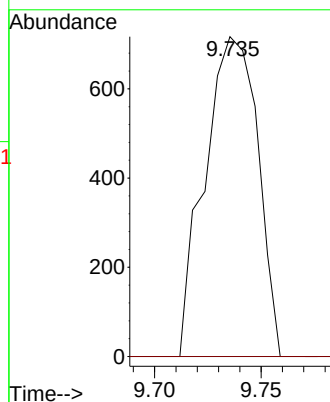
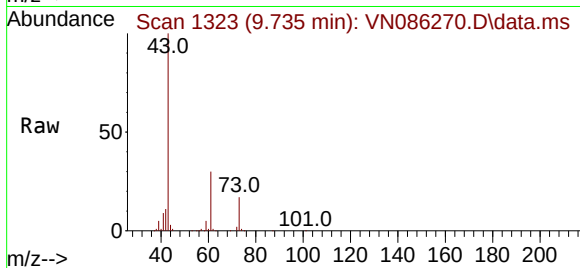
PB167573ZHE#10

Tgt Ion: 63 Resp: 1242

Ion Ratio Lower Upper

63 100

65 0.0 26.0 39.0#



#44

Isopropyl Acetate

Concen: 3.348 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.006 min

Lab File: VN086270.D

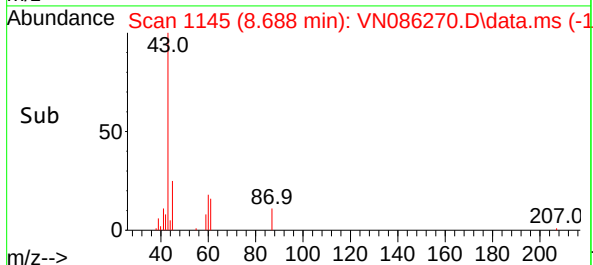
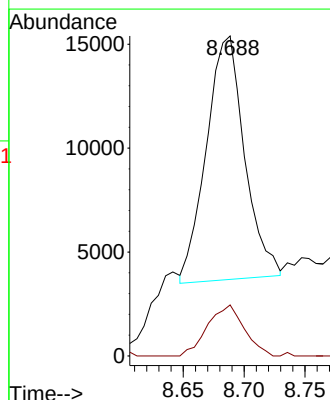
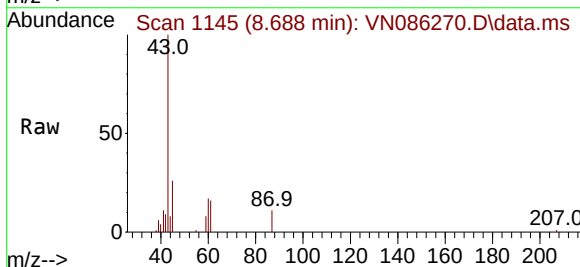
Acq: 14 Apr 2025 15:38

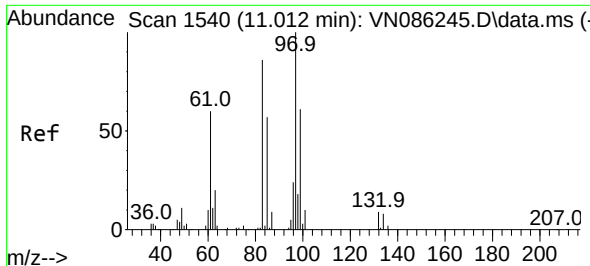
Tgt Ion: 43 Resp: 25599

Ion Ratio Lower Upper

43 100

61 20.0 20.5 30.7#

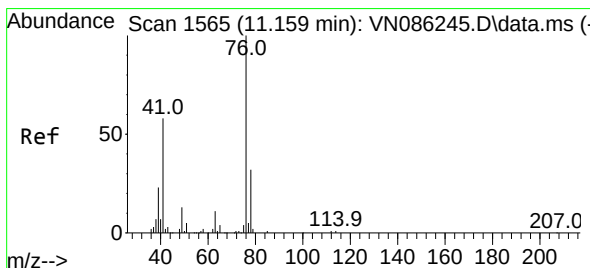
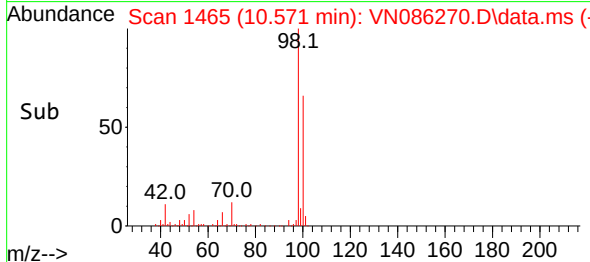
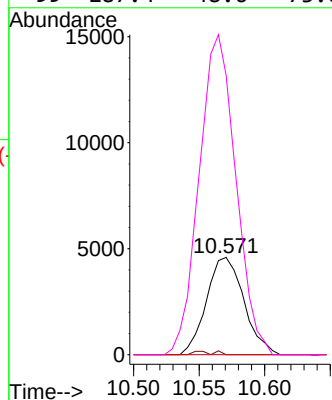
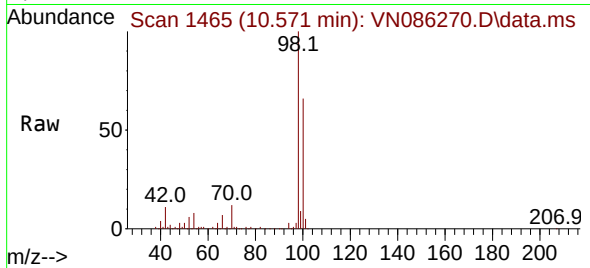




#50
1,1,2-Trichloroethane
Concen: 3.448 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.441 min
Lab File: VN086270.D
Acq: 14 Apr 2025 15:38

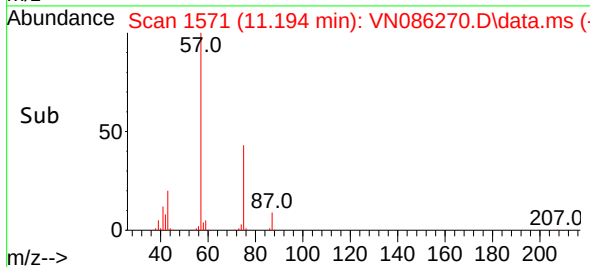
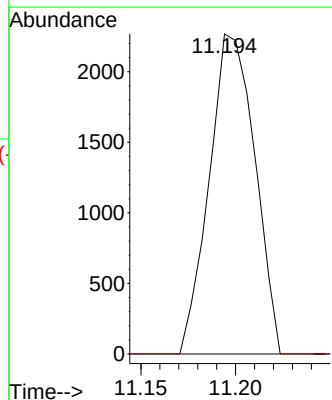
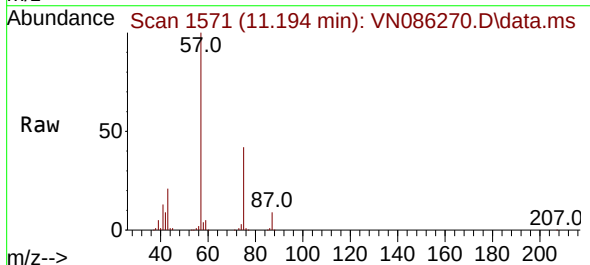
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#10

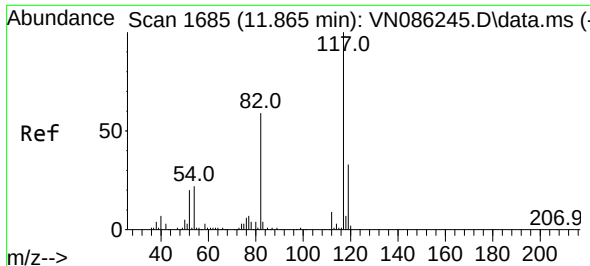
Tgt Ion: 97 Resp: 9120
Ion Ratio Lower Upper
97 100
83 0.0 68.6 103.0#
85 0.0 45.9 68.9#
99 287.4 48.6 73.0#



#52
1,3-Dichloropropane
Concen: 0.806 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.035 min
Lab File: VN086270.D
Acq: 14 Apr 2025 15:38

Tgt Ion: 76 Resp: 3797
Ion Ratio Lower Upper
76 100
78 0.0 0.0 64.6

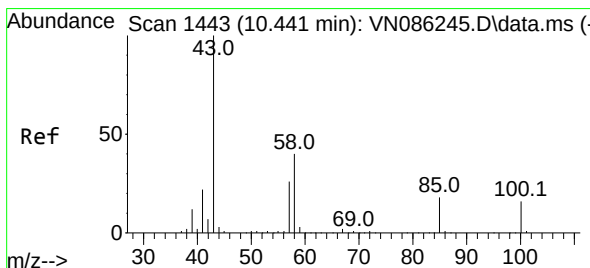
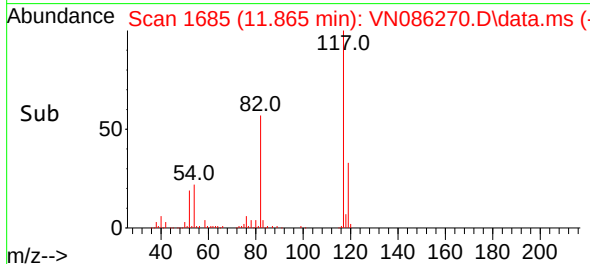
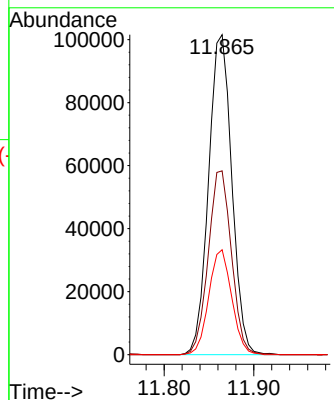
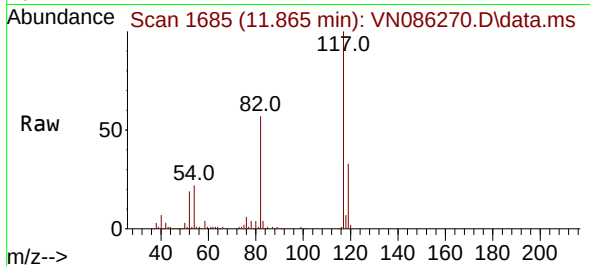




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086270.D
Acq: 14 Apr 2025 15:38

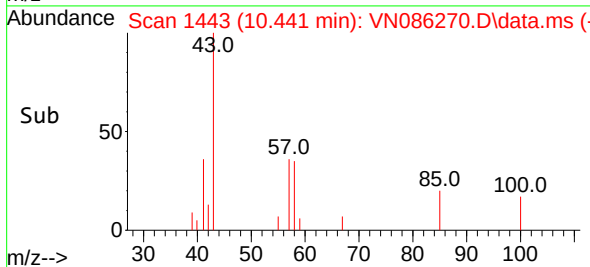
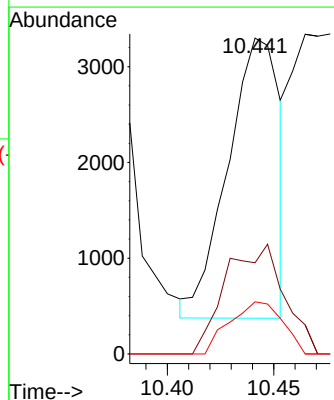
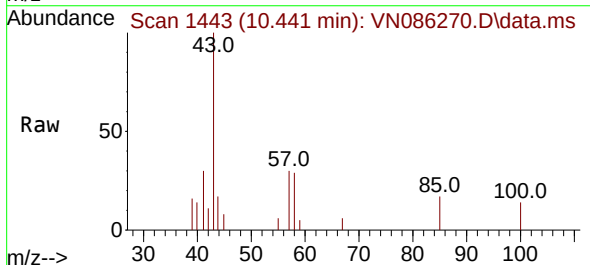
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#10

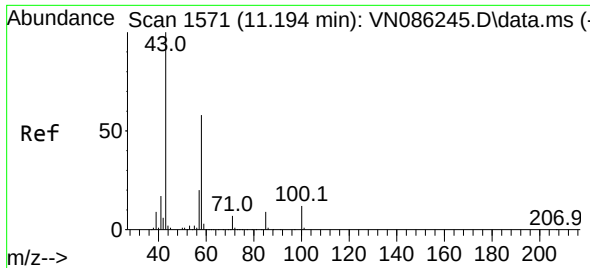
Tgt Ion:	117	Resp:	182708
Ion	Ratio	Lower	Upper
117	100		
82	57.5	47.3	70.9
119	32.4	25.9	38.9



#58
4-Methyl-2-Pentanone
Concen: 1.194 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086270.D
Acq: 14 Apr 2025 15:38

Tgt Ion:	43	Resp:	4950
Ion	Ratio	Lower	Upper
43	100		
58	18.2	32.5	48.7#
85	18.9	14.4	21.6

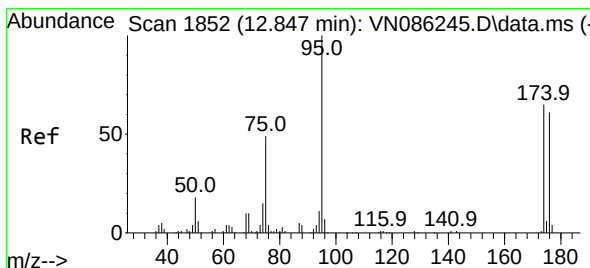
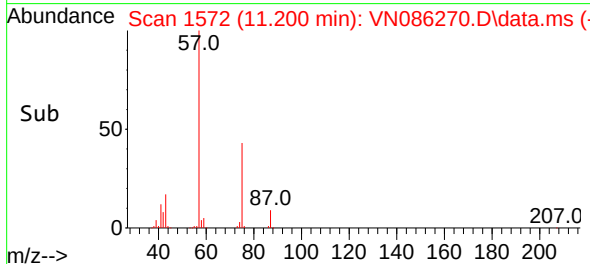
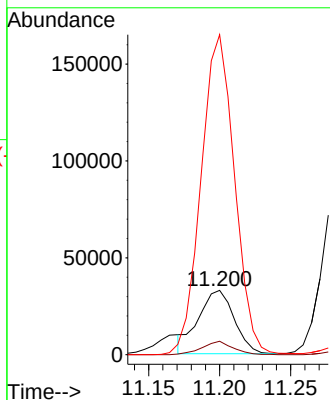
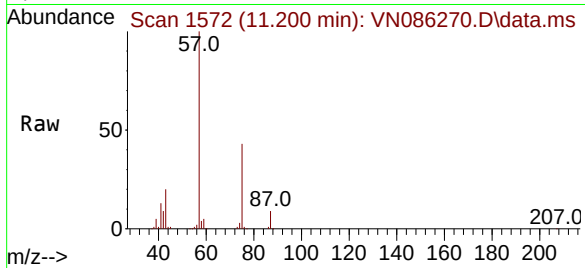




#59
2-Hexanone
Concen: 18.503 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086270.D
Acq: 14 Apr 2025 15:38

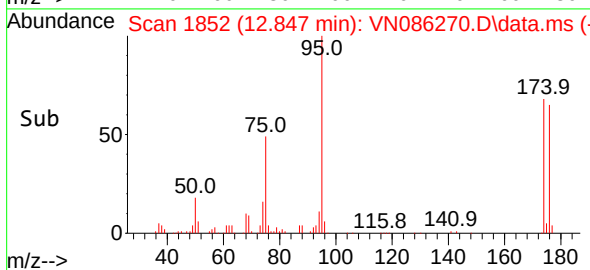
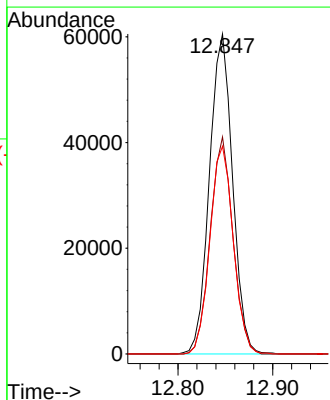
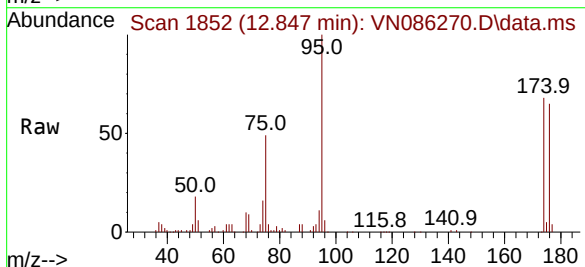
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#10

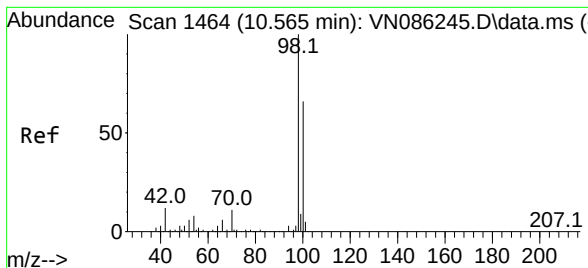
Tgt Ion: 43 Resp: 57125
Ion Ratio Lower Upper
43 100
58 18.3 45.3 67.9#
57 475.5 15.8 23.6#



#60
4-Bromofluorobenzene
Concen: 28.239 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086270.D
Acq: 14 Apr 2025 15:38

Tgt Ion: 95 Resp: 102722
Ion Ratio Lower Upper
95 100
174 66.5 52.7 79.1
176 65.6 49.8 74.8





#63

Toluene-d8

Concen: 29.904 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086270.D

Acq: 14 Apr 2025 15:38

Instrument :

MSVOA_N

ClientSampleId :

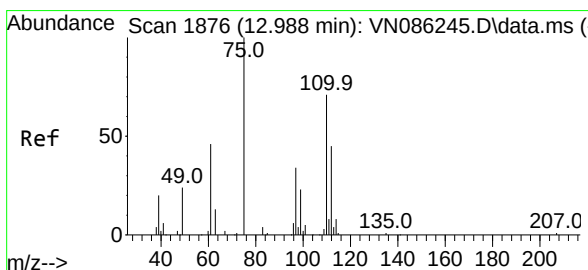
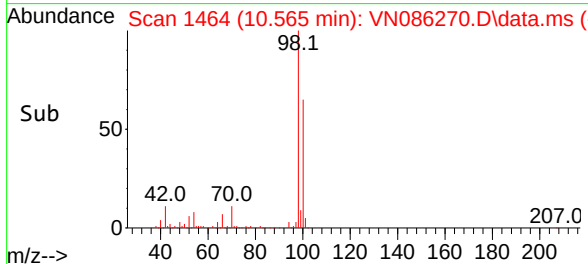
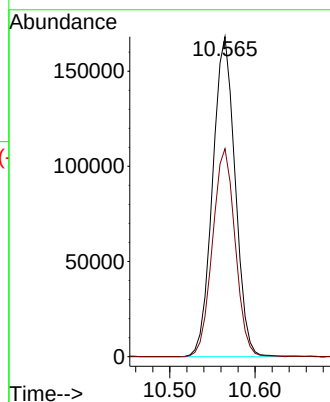
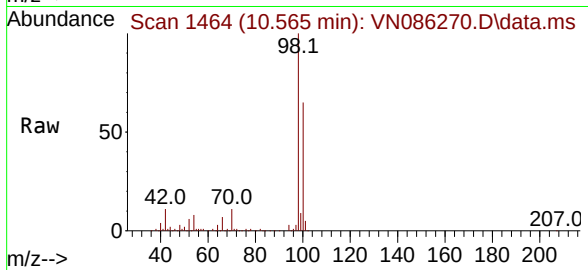
PB167573ZHE#10

Tgt Ion: 98 Resp: 308453

Ion Ratio Lower Upper

98 100

100 65.4 52.3 78.5



#72

1,2,3-Trichloropropane

Concen: 14.157 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN086270.D

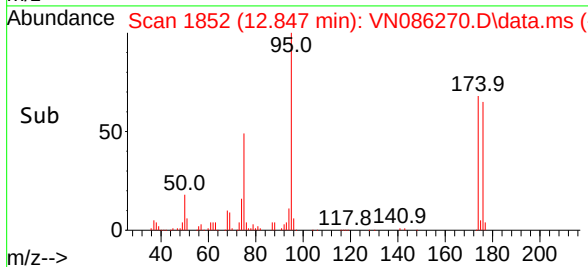
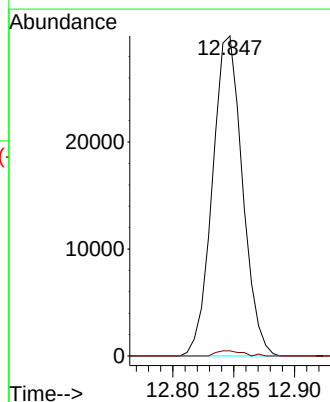
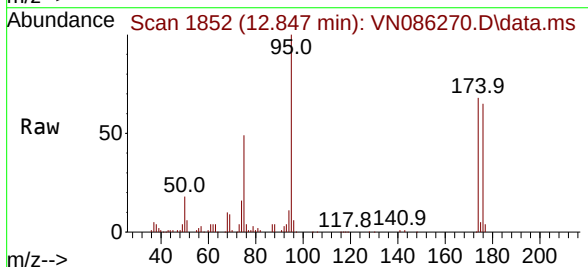
Acq: 14 Apr 2025 15:38

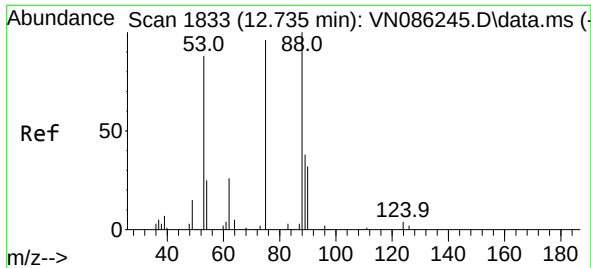
Tgt Ion: 75 Resp: 51408

Ion Ratio Lower Upper

75 100

77 1.3 0.0 380.0





#77

t-1,4-Dichloro-2-butene

Concen: 30.703 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.112 min

Lab File: VN086270.D

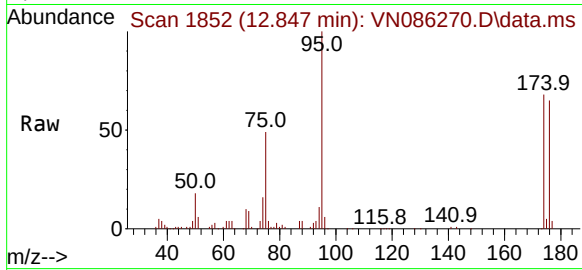
Acq: 14 Apr 2025 15:38

Instrument :

MSVOA_N

ClientSampleId :

PB167573ZHE#10



Tgt Ion: 75 Resp: 51408

Ion Ratio Lower Upper

75 100

53 0.0 46.4 139.2#

89 0.0 22.5 67.5#

