

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041425\
 Data File : VN086272.D
 Acq On : 14 Apr 2025 16:26
 Operator : JC\MD
 Sample : PB167573ZHE#12
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167573ZHE#12

Quant Time: Apr 15 03:13:17 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)

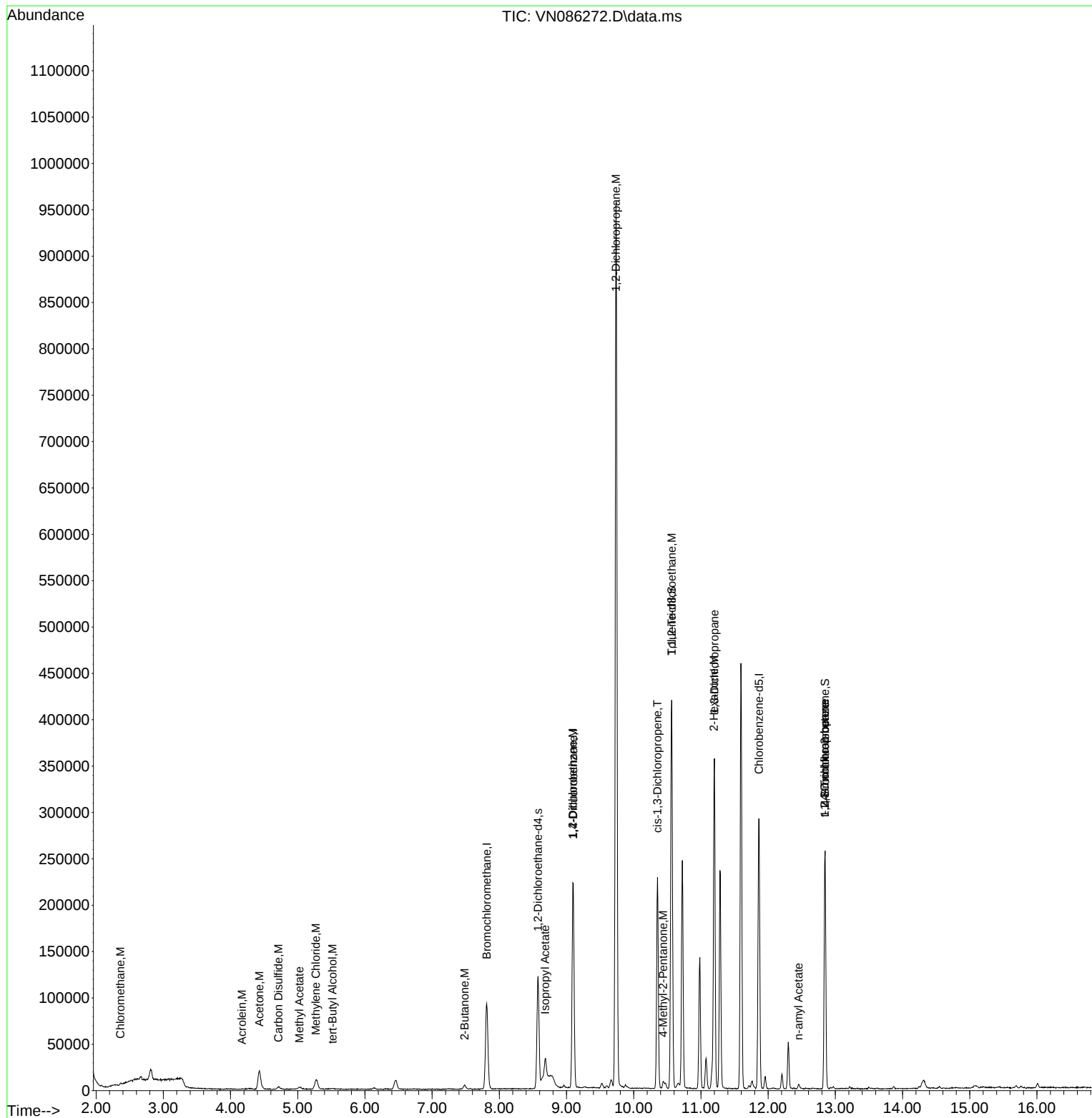
Internal Standards						
1) Bromochloromethane	7.812	128	33474	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	195825	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	174832	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	99822	30.574	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.900%
60) 4-Bromofluorobenzene	12.847	95	97028	27.875	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	92.900%
63) Toluene-d8	10.565	98	294656	29.853	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.500%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	1036	0.279	ug/l	97
12) Methyl Acetate	5.024	43	4576	1.271	ug/l	100
13) Acrolein	4.171	56	123	0.301	ug/l #	1
15) Acetone	4.430	58	12172	31.592	ug/l	89
16) Carbon Disulfide	4.712	76	5496	0.752	ug/l	98
18) Methylene Chloride	5.271	84	8524	2.933	ug/l #	87
23) tert-Butyl Alcohol	5.518	59	380	0.604	ug/l #	100
30) 2-Butanone	7.483	43	6153	3.165	ug/l #	98
36) 1,2-Dichloroethane	9.094	62	7120	2.039	ug/l #	72
39) 1,2-Dichloropropane	9.735	63	1255	0.452	ug/l #	42
44) Isopropyl Acetate	8.683	43	53278	7.325	ug/l #	70
47) n-amyl Acetate	12.453	43	3323	0.576	ug/l	91
49) cis-1,3-Dichloropropene	10.353	75	43519	9.439	ug/l #	58
50) 1,1,2-Trichloroethane	10.565	97	8828	3.509	ug/l #	1
52) 1,3-Dichloropropane	11.200	76	3906	0.871	ug/l #	42
58) 4-Methyl-2-Pentanone	10.435	43	5697	1.436	ug/l #	93
59) 2-Hexanone	11.194	43	52233	17.680	ug/l #	1
72) 1,2,3-Trichloropropane	12.841	75	49172	14.151	ug/l	1
77) t-1,4-Dichloro-2-butene	12.841	75	49172	30.691	ug/l #	12

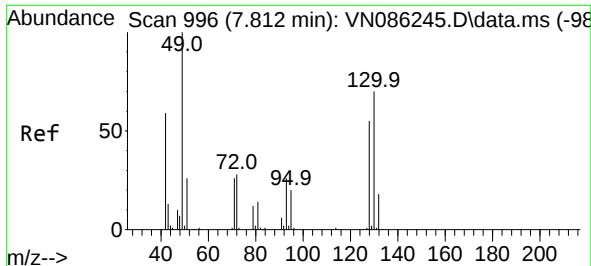
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
PB167573ZHE#12

Quant Time: Apr 15 03:13:17 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

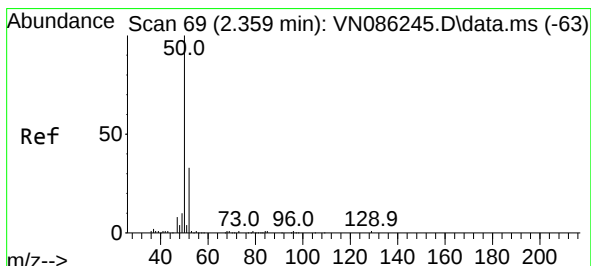
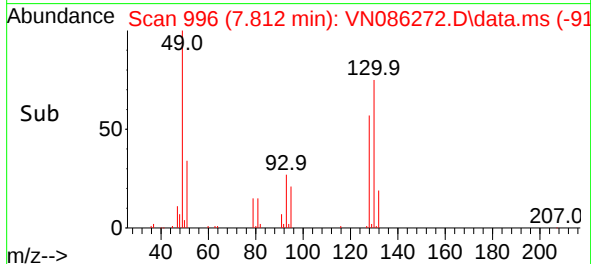
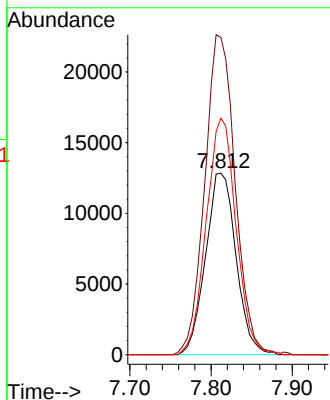
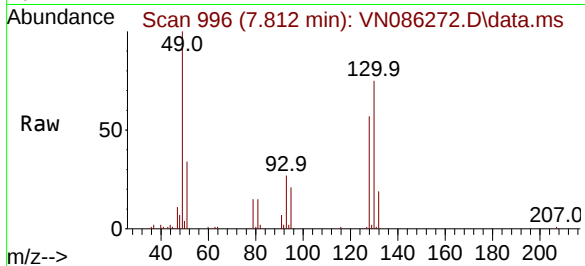




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN086272.D
Acq: 14 Apr 2025 16:26

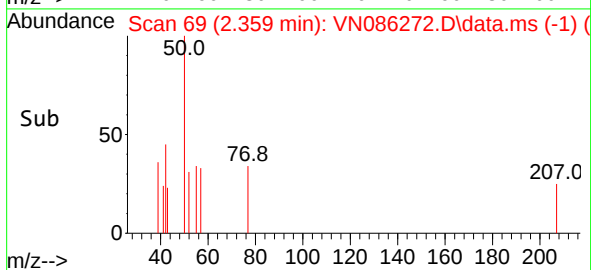
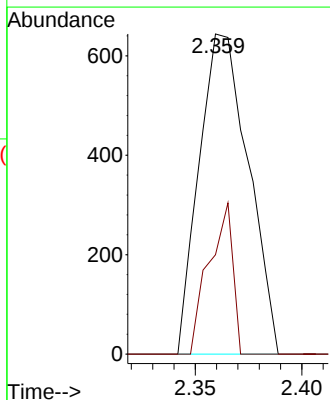
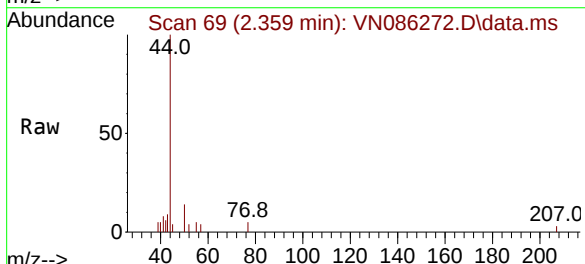
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#12

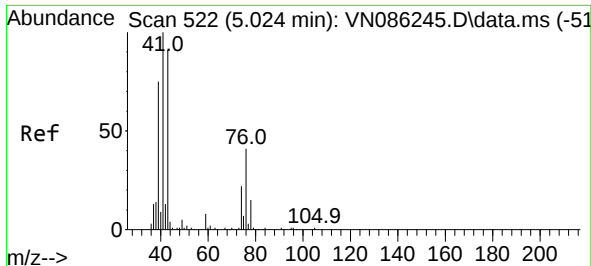
Tgt Ion:	128	Resp:	33474
Ion	Ratio	Lower	Upper
128	100		
49	175.5	0.0	452.5
130	128.3	0.0	315.0



#3
Chloromethane
Concen: 0.279 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086272.D
Acq: 14 Apr 2025 16:26

Tgt Ion:	50	Resp:	1036
Ion	Ratio	Lower	Upper
50	100		
52	31.1	26.4	39.6

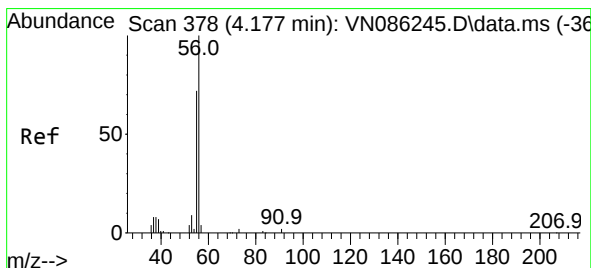
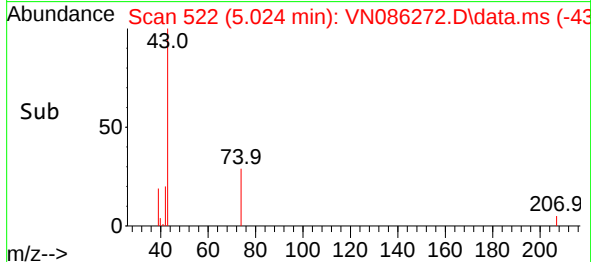
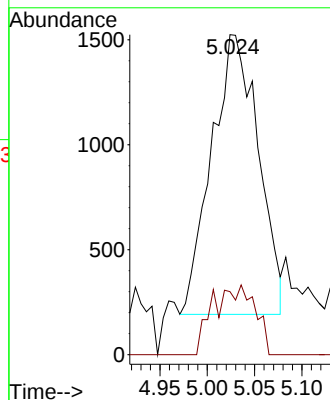
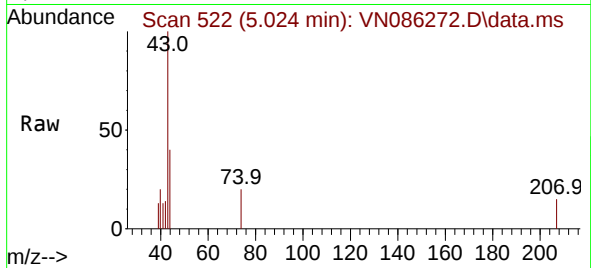




#12
Methyl Acetate
Concen: 1.271 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN086272.D
Acq: 14 Apr 2025 16:26

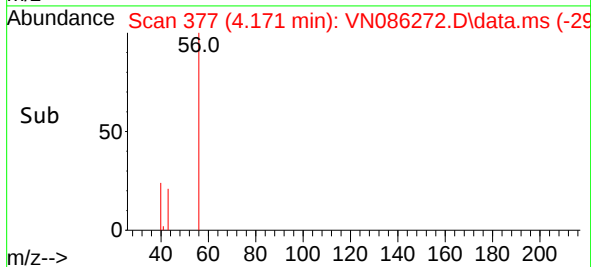
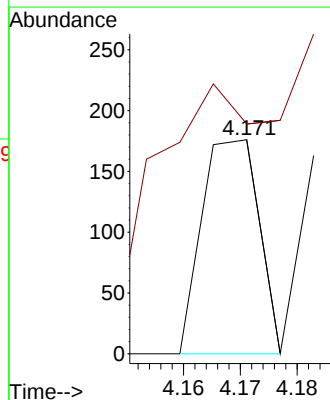
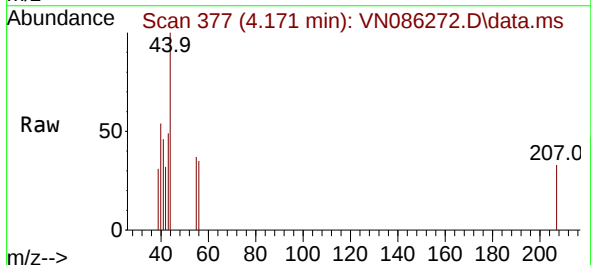
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#12

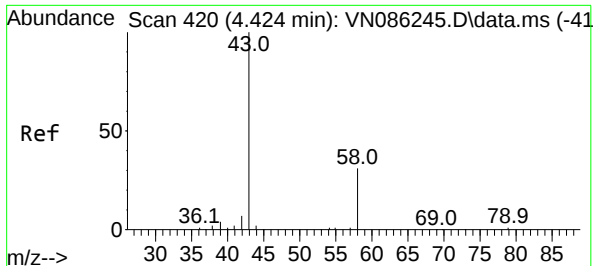
Tgt Ion: 43 Resp: 4576
Ion Ratio Lower Upper
43 100
74 24.1 19.1 28.7



#13
Acrolein
Concen: 0.301 ug/l
RT: 4.171 min Scan# 377
Delta R.T. -0.006 min
Lab File: VN086272.D
Acq: 14 Apr 2025 16:26

Tgt Ion: 56 Resp: 123
Ion Ratio Lower Upper
56 100
55 213.8 56.5 84.7#





#15

Acetone

Concen: 31.592 ug/l

RT: 4.430 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN086272.D

Acq: 14 Apr 2025 16:26

Instrument :

MSVOA_N

ClientSampleId :

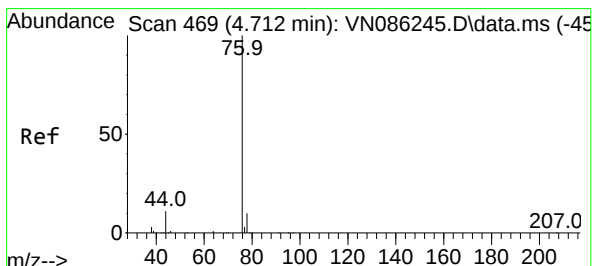
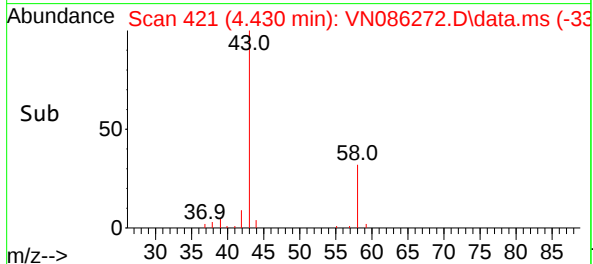
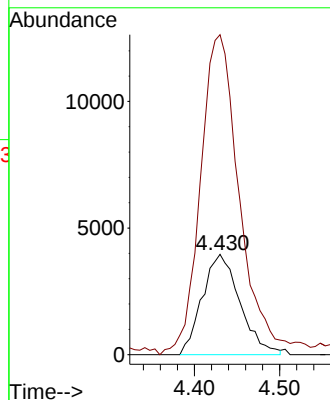
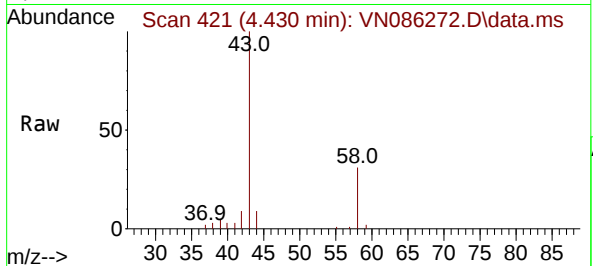
PB167573ZHE#12

Tgt Ion: 58 Resp: 12172

Ion Ratio Lower Upper

58 100

43 304.5 261.8 392.8



#16

Carbon Disulfide

Concen: 0.752 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN086272.D

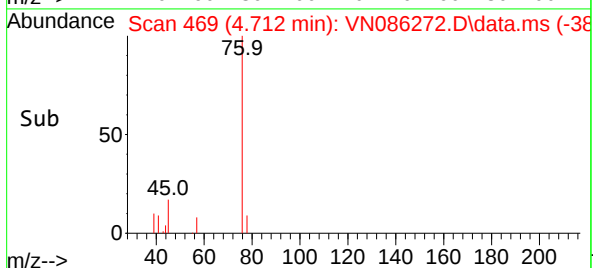
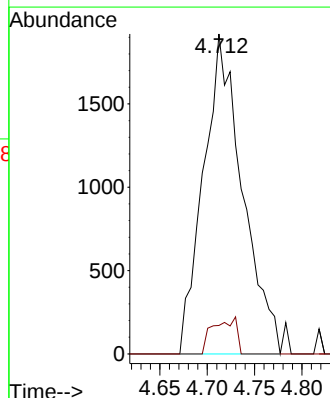
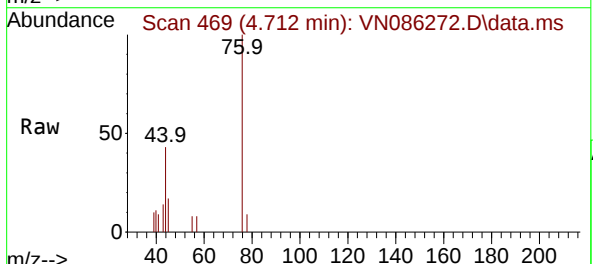
Acq: 14 Apr 2025 16:26

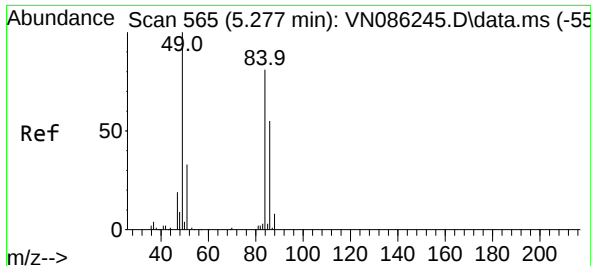
Tgt Ion: 76 Resp: 5496

Ion Ratio Lower Upper

76 100

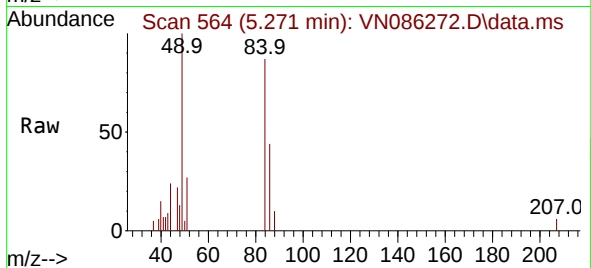
78 8.9 7.7 11.5



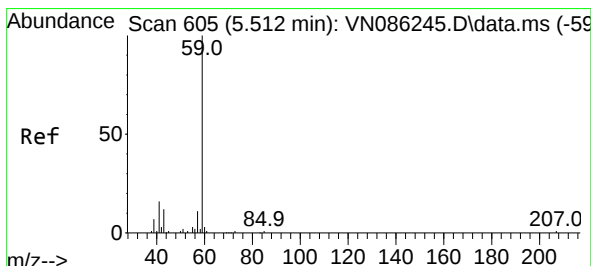
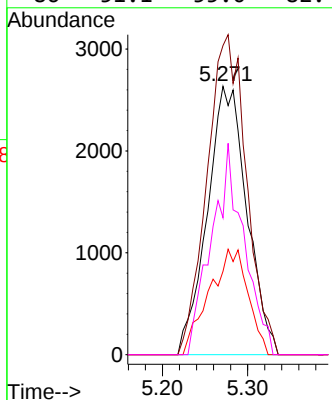
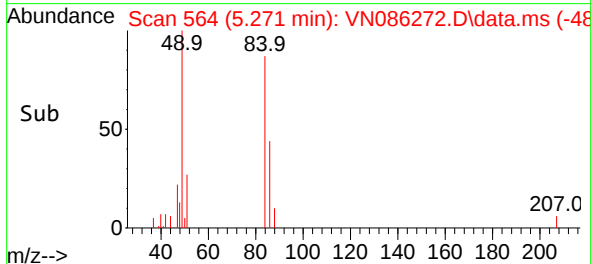


#18
Methylene Chloride
Concen: 2.933 ug/l
RT: 5.271 min Scan# 50
Delta R.T. -0.006 min
Lab File: VN086272.D
Acq: 14 Apr 2025 16:26

Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#12

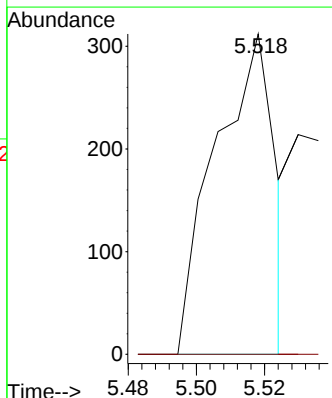
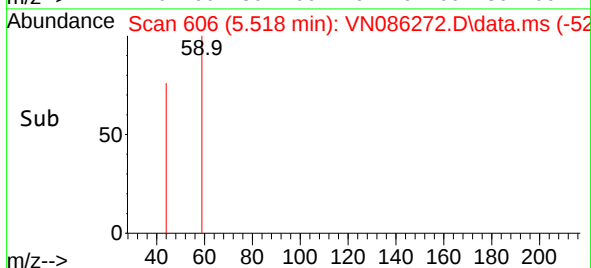
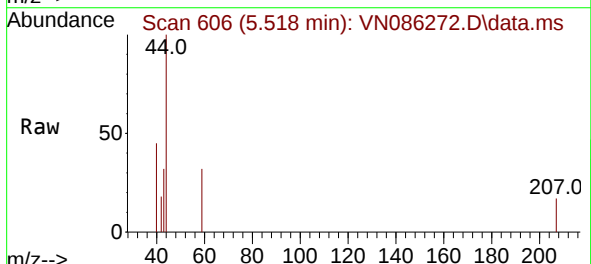


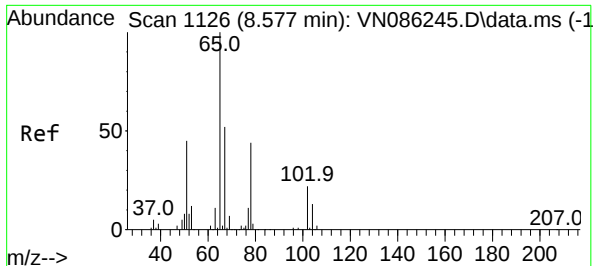
Tgt Ion:	84	Resp:	8524
Ion	Ratio	Lower	Upper
84	100		
49	115.2	99.1	148.7
51	31.1	32.3	48.5#
86	51.1	55.0	82.4#



#23
tert-Butyl Alcohol
Concen: 0.604 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN086272.D
Acq: 14 Apr 2025 16:26

Tgt Ion:	59	Resp:	380
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0





#27

1,2-Dichloroethane-d4

Concen: 30.574 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086272.D

Acq: 14 Apr 2025 16:26

Instrument :

MSVOA_N

ClientSampleId :

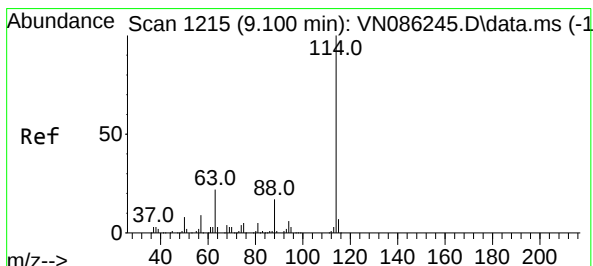
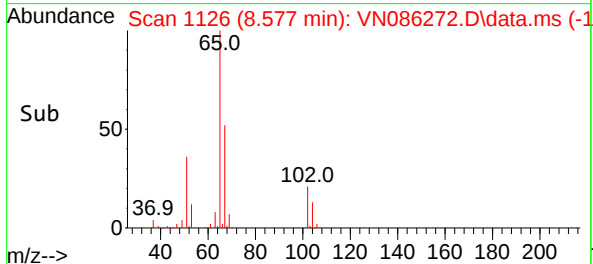
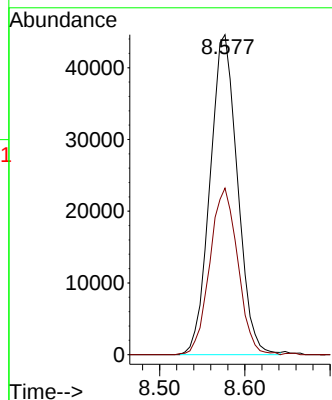
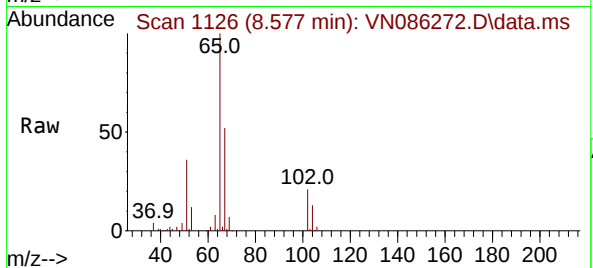
PB167573ZHE#12

Tgt Ion: 65 Resp: 99822

Ion Ratio Lower Upper

65 100

67 53.0 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: VN086272.D

Acq: 14 Apr 2025 16:26

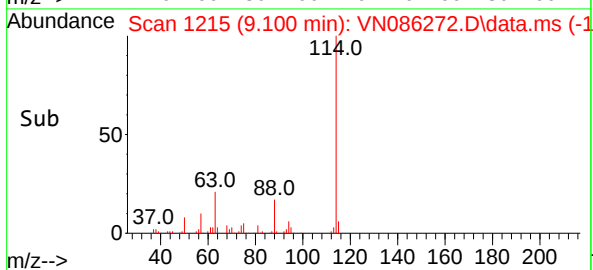
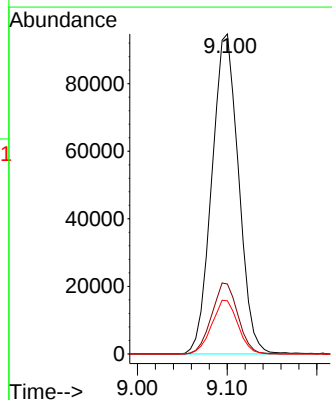
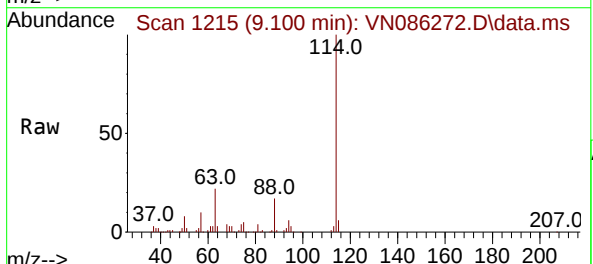
Tgt Ion: 114 Resp: 195825

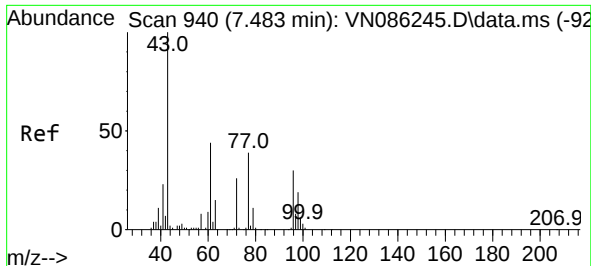
Ion Ratio Lower Upper

114 100

63 21.7 17.8 26.6

88 16.4 13.4 20.2

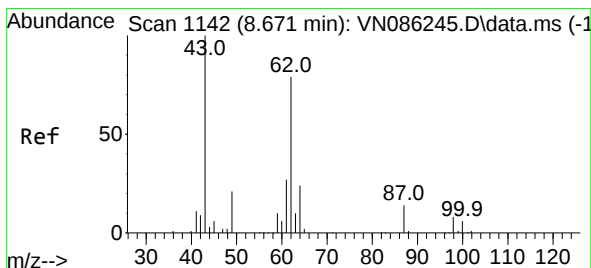
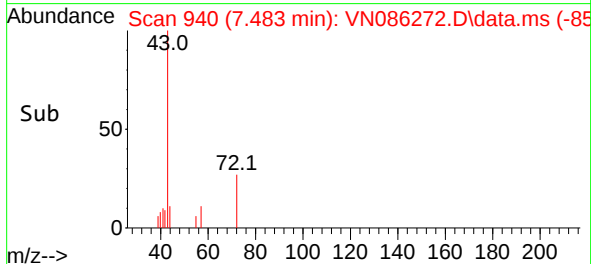
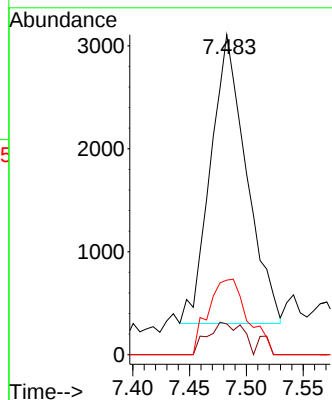
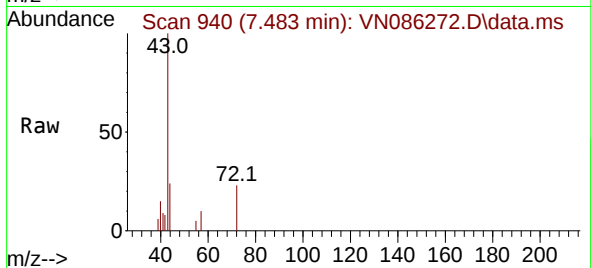




#30
2-Butanone
Concen: 3.165 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN086272.D
Acq: 14 Apr 2025 16:26

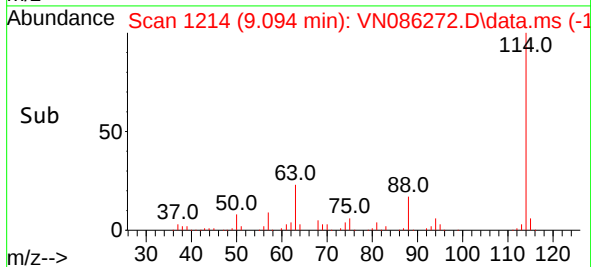
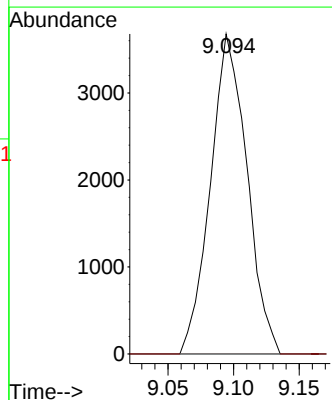
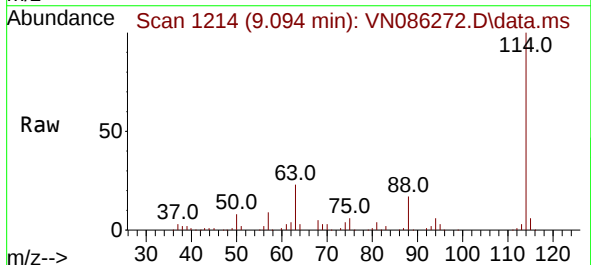
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#12

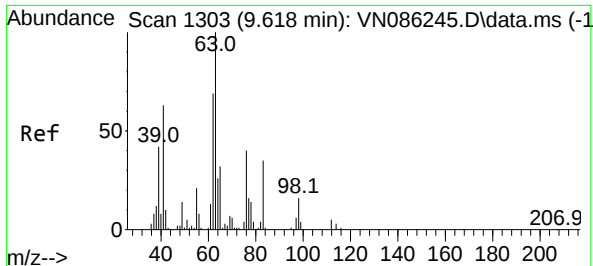
Tgt Ion: 43 Resp: 6153
Ion Ratio Lower Upper
43 100
57 6.1 6.4 9.6#
72 26.3 21.5 32.3



#36
1,2-Dichloroethane
Concen: 2.039 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. 0.424 min
Lab File: VN086272.D
Acq: 14 Apr 2025 16:26

Tgt Ion: 62 Resp: 7120
Ion Ratio Lower Upper
62 100
98 0.0 8.6 12.8#





#39

1,2-Dichloropropane

Concen: 0.452 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN086272.D

Acq: 14 Apr 2025 16:26

Instrument :

MSVOA_N

ClientSampleId :

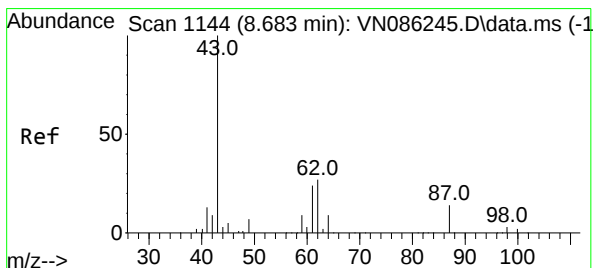
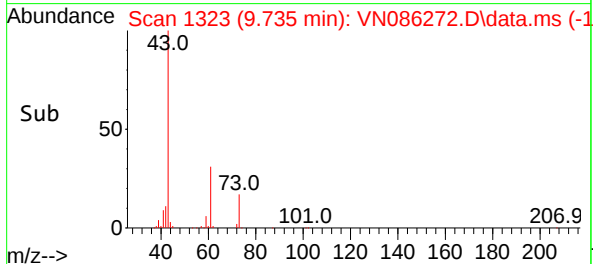
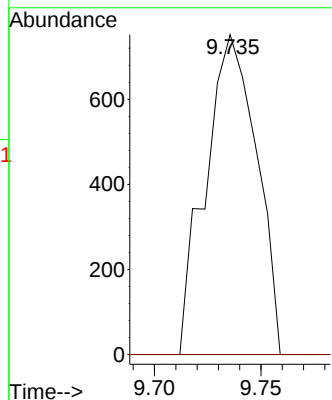
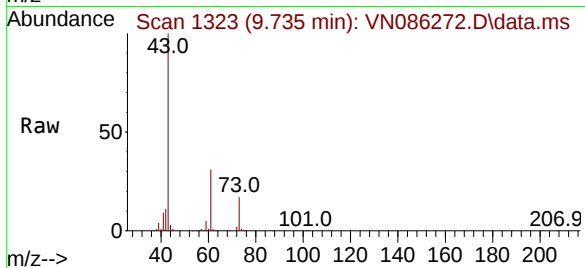
PB167573ZHE#12

Tgt Ion: 63 Resp: 1255

Ion Ratio Lower Upper

63 100

65 0.0 26.0 39.0#



#44

Isopropyl Acetate

Concen: 7.325 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.000 min

Lab File: VN086272.D

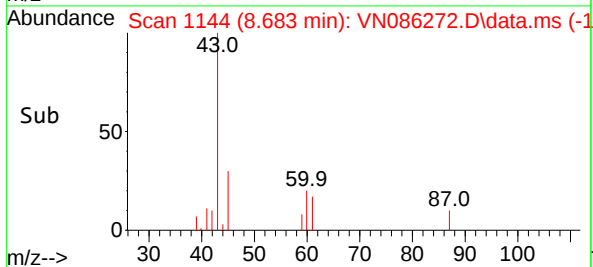
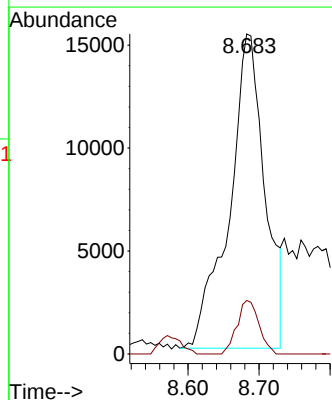
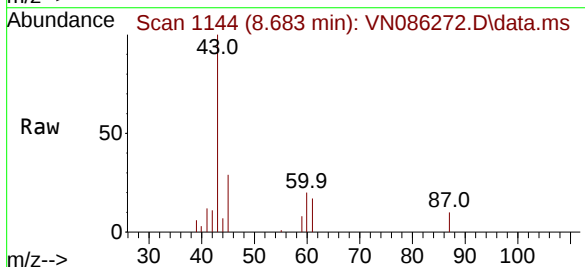
Acq: 14 Apr 2025 16:26

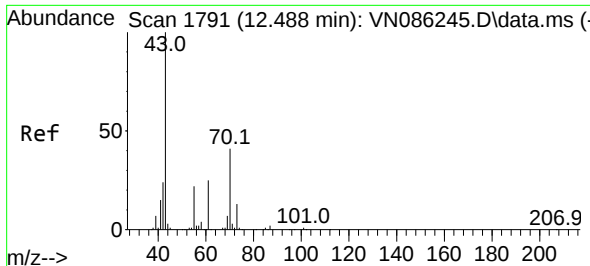
Tgt Ion: 43 Resp: 53278

Ion Ratio Lower Upper

43 100

61 10.5 20.5 30.7#

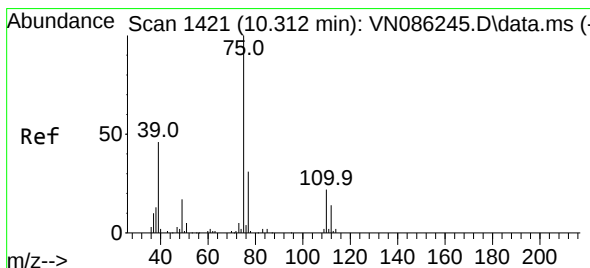
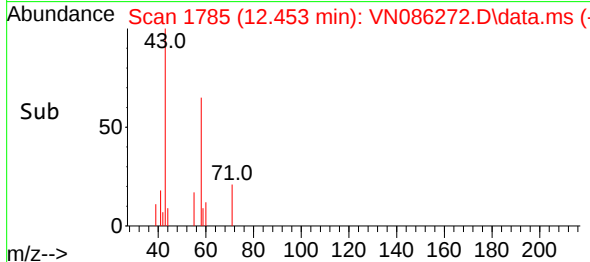
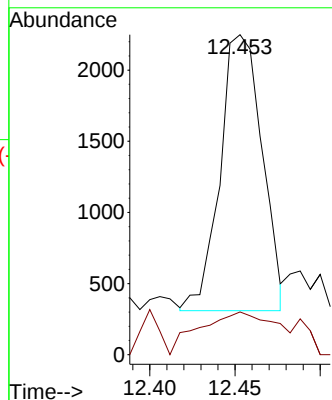
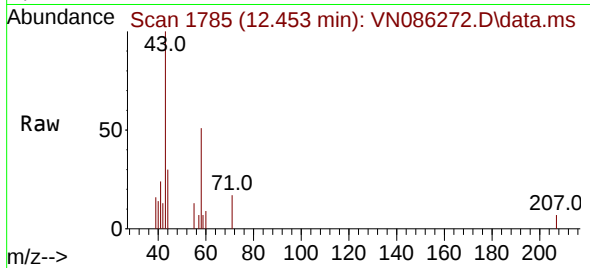




#47
n-amy1 Acetate
Concen: 0.576 ug/l
RT: 12.453 min Scan# 11
Delta R.T. -0.035 min
Lab File: VN086272.D
Acq: 14 Apr 2025 16:26

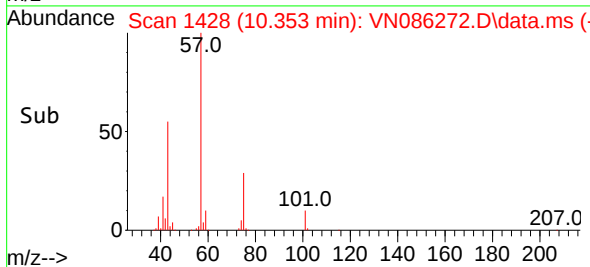
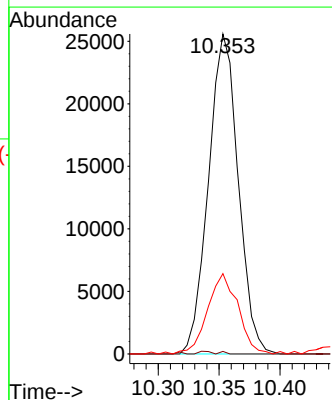
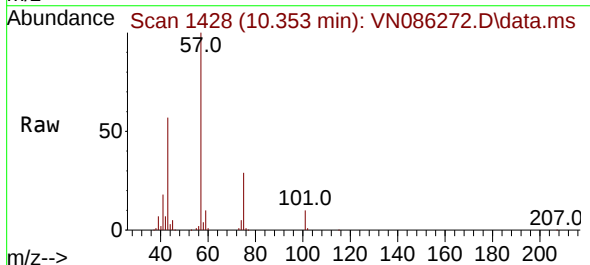
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#12

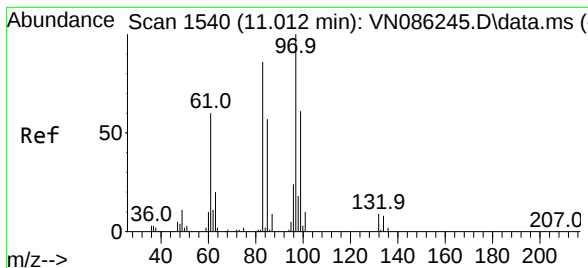
Tgt Ion: 43 Resp: 3323
Ion Ratio Lower Upper
43 100
55 28.3 19.0 28.4



#49
cis-1,3-Dichloropropene
Concen: 9.439 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.041 min
Lab File: VN086272.D
Acq: 14 Apr 2025 16:26

Tgt Ion: 75 Resp: 43519
Ion Ratio Lower Upper
75 100
77 0.8 25.0 37.4#
39 24.3 36.7 55.1#

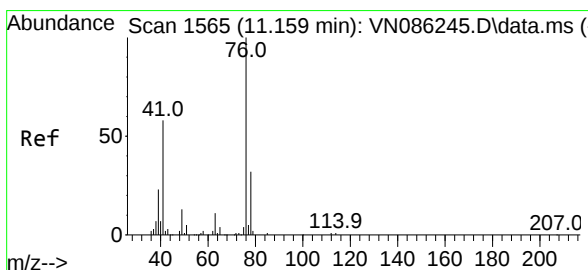
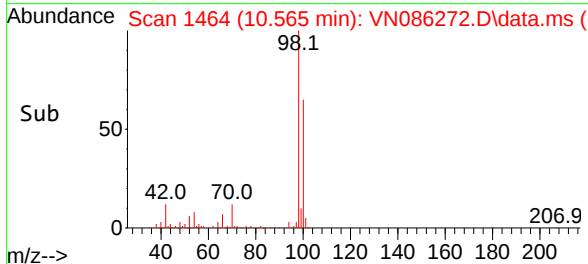
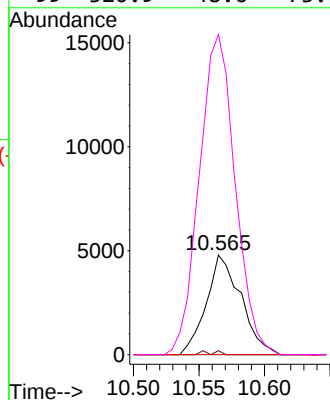
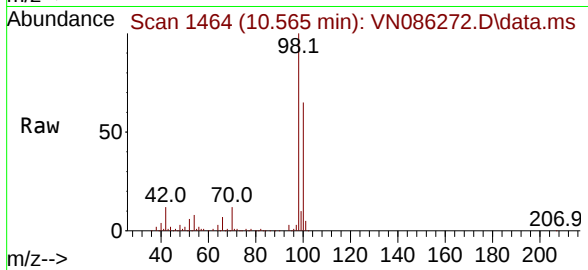




#50
 1,1,2-Trichloroethane
 Concen: 3.509 ug/l
 RT: 10.565 min Scan# 14
 Delta R.T. -0.447 min
 Lab File: VN086272.D
 Acq: 14 Apr 2025 16:26

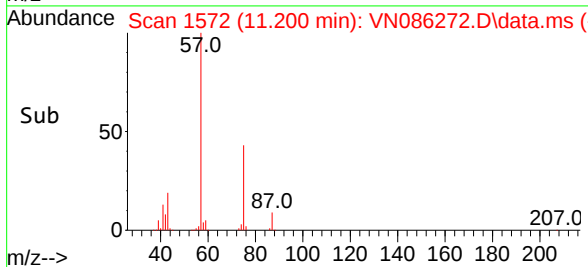
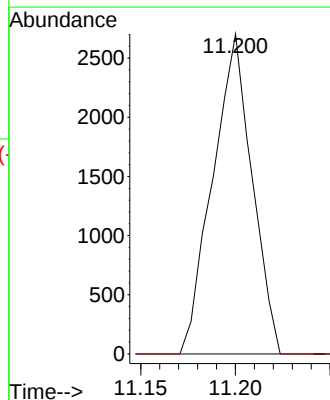
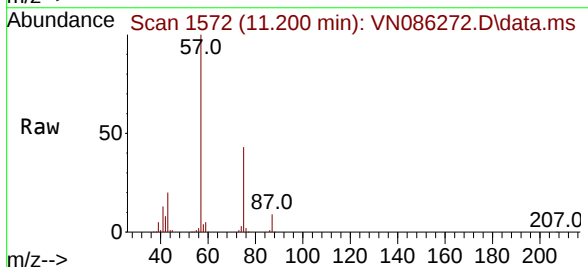
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167573ZHE#12

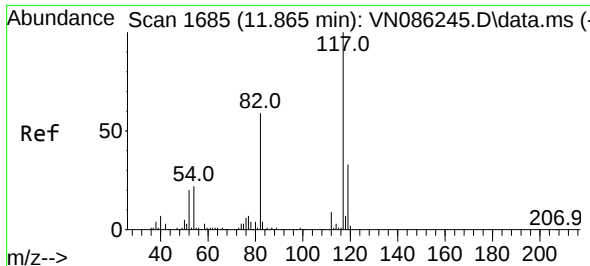
Tgt Ion: 97 Resp: 8828
 Ion Ratio Lower Upper
 97 100
 83 4.0 68.6 103.0#
 85 0.0 45.9 68.9#
 99 320.9 48.6 73.0#



#52
 1,3-Dichloropropane
 Concen: 0.871 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.041 min
 Lab File: VN086272.D
 Acq: 14 Apr 2025 16:26

Tgt Ion: 76 Resp: 3906
 Ion Ratio Lower Upper
 76 100
 78 0.0 0.0 64.6

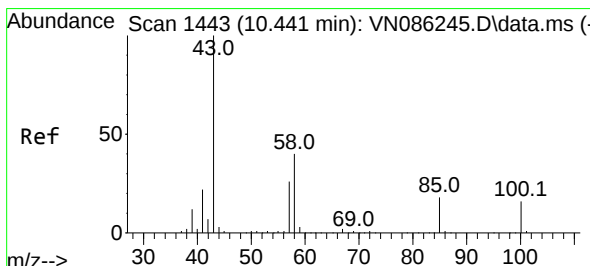
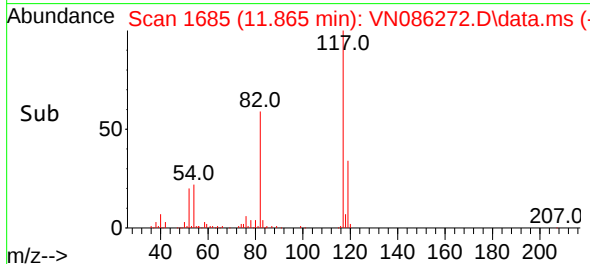
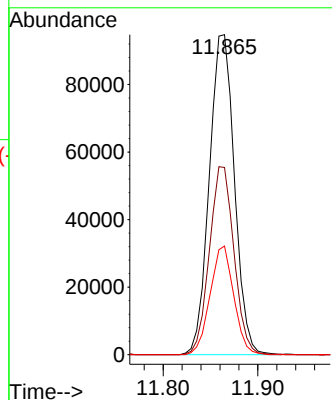
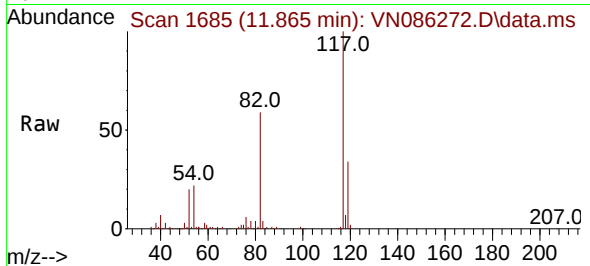




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN086272.D
Acq: 14 Apr 2025 16:26

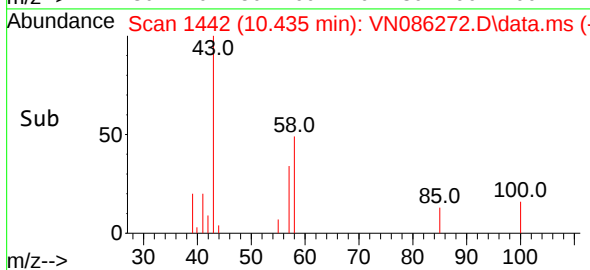
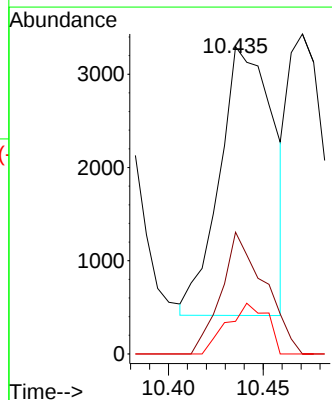
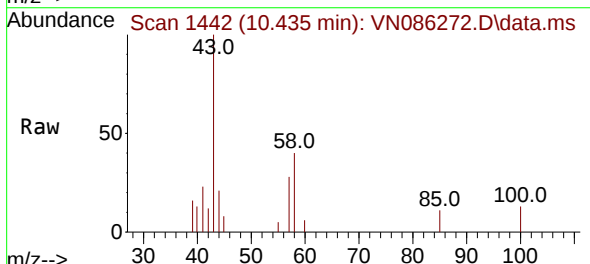
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#12

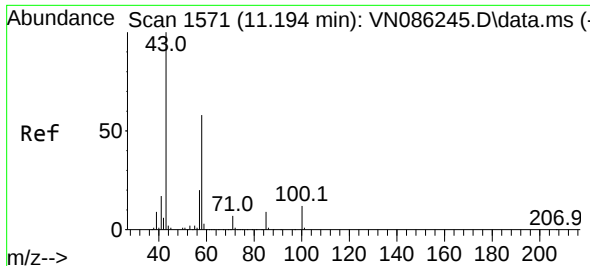
Tgt Ion:117 Resp: 174832
Ion Ratio Lower Upper
117 100
82 57.6 47.3 70.9
119 32.0 25.9 38.9



#58
4-Methyl-2-Pentanone
Concen: 1.436 ug/l
RT: 10.435 min Scan# 1442
Delta R.T. -0.006 min
Lab File: VN086272.D
Acq: 14 Apr 2025 16:26

Tgt Ion: 43 Resp: 5697
Ion Ratio Lower Upper
43 100
58 36.5 32.5 48.7
85 14.1 14.4 21.6#

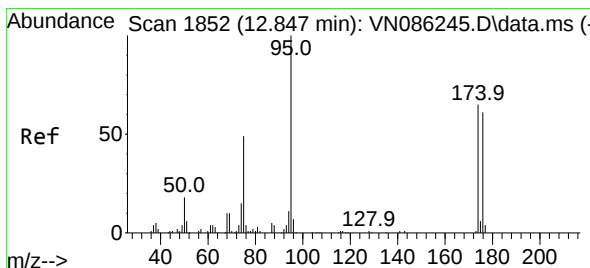
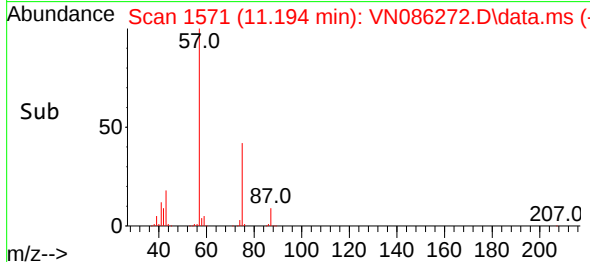
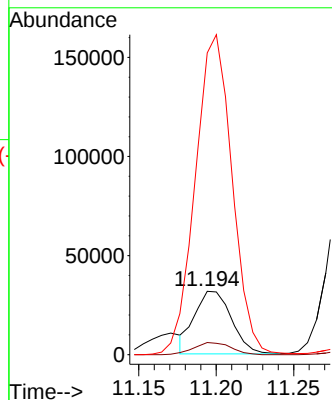
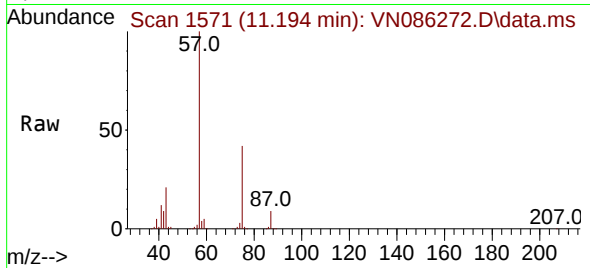




#59
2-Hexanone
Concen: 17.680 ug/l
RT: 11.194 min Scan# 111
Delta R.T. 0.000 min
Lab File: VN086272.D
Acq: 14 Apr 2025 16:26

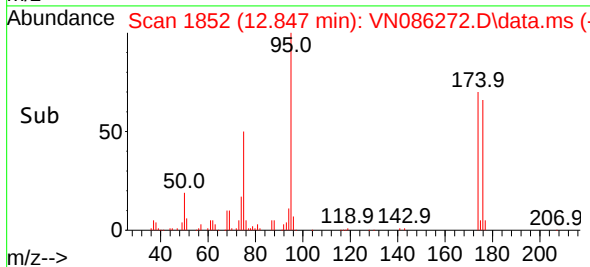
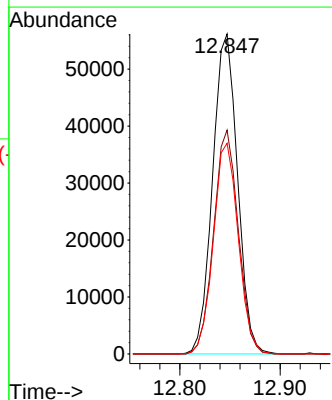
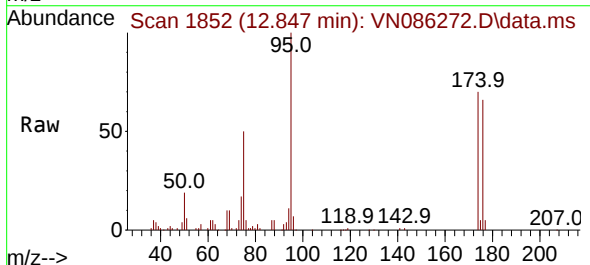
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#12

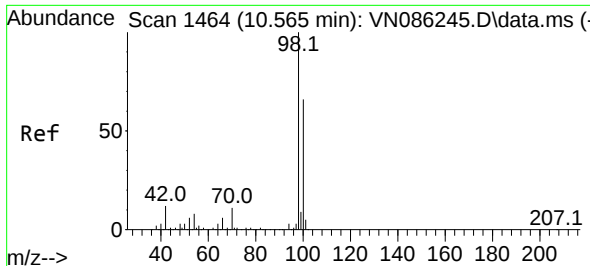
Tgt Ion: 43 Resp: 52233
Ion Ratio Lower Upper
43 100
58 19.7 45.3 67.9#
57 511.7 15.8 23.6#



#60
4-Bromofluorobenzene
Concen: 27.875 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086272.D
Acq: 14 Apr 2025 16:26

Tgt Ion: 95 Resp: 97028
Ion Ratio Lower Upper
95 100
174 69.2 52.7 79.1
176 65.9 49.8 74.8

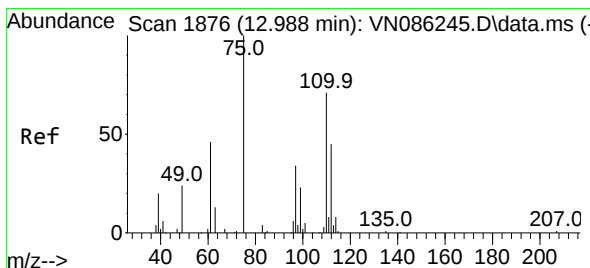
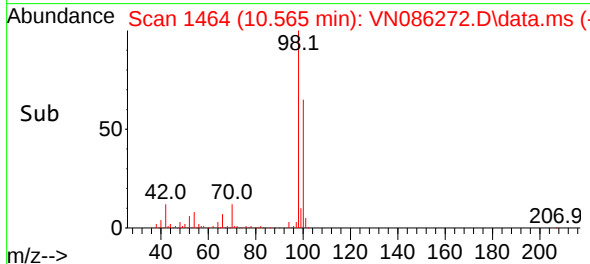
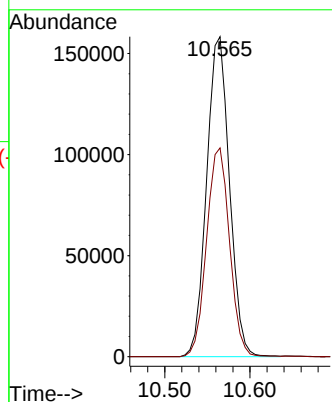
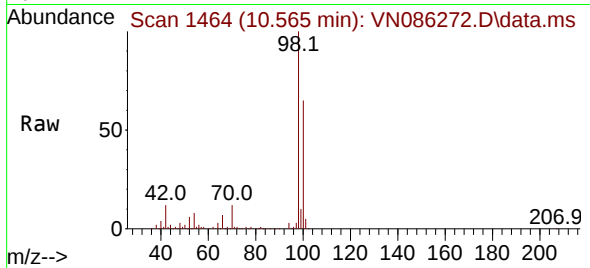




#63
Toluene-d8
Concen: 29.853 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086272.D
Acq: 14 Apr 2025 16:26

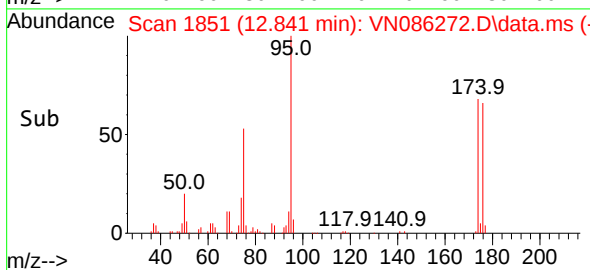
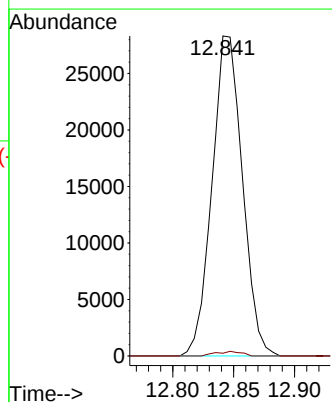
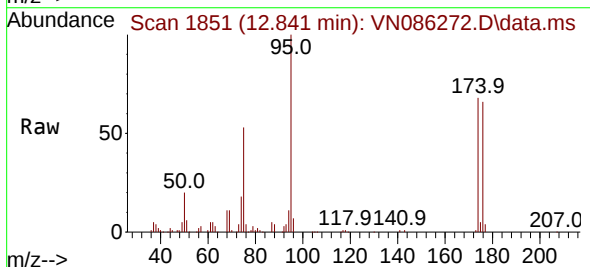
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#12

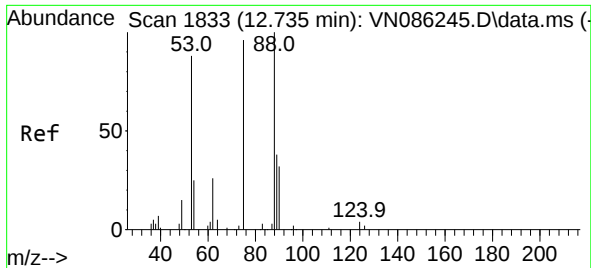
Tgt Ion: 98 Resp: 294656
Ion Ratio Lower Upper
98 100
100 65.6 52.3 78.5



#72
1,2,3-Trichloropropane
Concen: 14.151 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. -0.147 min
Lab File: VN086272.D
Acq: 14 Apr 2025 16:26

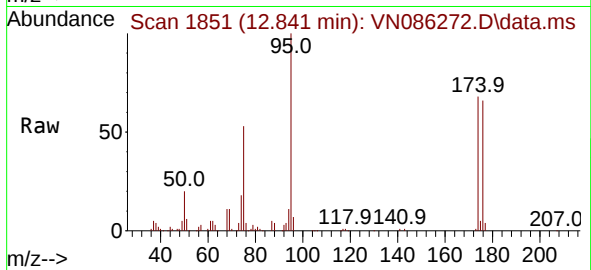
Tgt Ion: 75 Resp: 49172
Ion Ratio Lower Upper
75 100
77 1.2 0.0 380.0





#77
 t-1,4-Dichloro-2-butene
 Concen: 30.691 ug/l
 RT: 12.841 min Scan# 11
 Delta R.T. 0.106 min
 Lab File: VN086272.D
 Acq: 14 Apr 2025 16:26

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167573ZHE#12



Tgt Ion: 75 Resp: 49172
 Ion Ratio Lower Upper
 75 100
 53 0.0 46.4 139.2#
 89 0.0 22.5 67.5#

