

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN053025\
 Data File : VN086833.D
 Acq On : 30 May 2025 14:37
 Operator : JC\MD
 Sample : PB168191ZHE#04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168191ZHE#04

Quant Time: May 31 03:48:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N052925W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 30 02:22:52 2025
 Response via : Initial Calibration

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

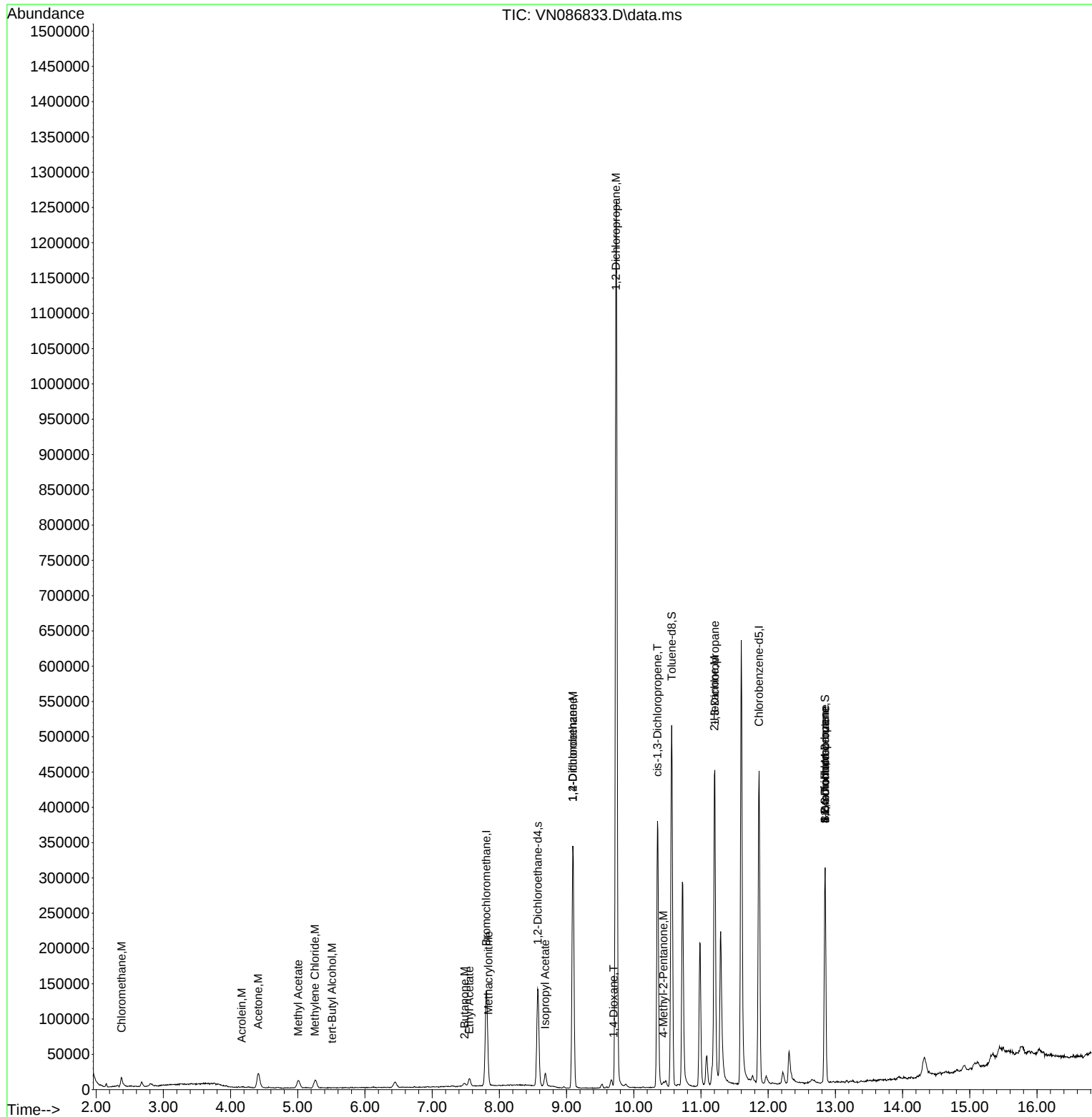
Internal Standards						
1) Bromochloromethane	7.806	128	52841	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	316542	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	267158	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	114241	31.467	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	104.900%
60) 4-Bromofluorobenzene	12.847	95	119870	28.578	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	95.267%
63) Toluene-d8	10.565	98	369835	30.161	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.533%
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	16632	3.594	ug/l	96
12) Methyl Acetate	5.006	43	23433	6.771	ug/l	94
13) Acrolein	4.165	56	1035	2.895	ug/l #	39
15) Acetone	4.412	58	13486	33.073	ug/l	82
18) Methylene Chloride	5.253	84	4918	1.359	ug/l	84
23) tert-Butyl Alcohol	5.512	59	282	0.545	ug/l #	100
30) 2-Butanone	7.483	43	8223	4.032	ug/l #	96
35) Methacrylonitrile	7.835	41	809	0.345	ug/l #	25
36) 1,2-Dichloroethane	9.094	62	9498	2.140	ug/l #	72
39) 1,2-Dichloropropane	9.735	63	1620	0.444	ug/l #	44
43) Ethyl Acetate	7.553	43	16603	3.979	ug/l	99
44) Isopropyl Acetate	8.682	43	20428	2.854	ug/l	90
45) 1,4-Dioxane	9.700	88	690	10.845	ug/l #	23
49) cis-1,3-Dichloropropene	10.353	75	80873	13.766	ug/l #	55
52) 1,3-Dichloropropane	11.206	76	5866	0.984	ug/l #	42
56) Bromoform	12.847	173	655	0.274	ug/l #	1
58) 4-Methyl-2-Pentanone	10.441	43	3384	0.863	ug/l #	85
59) 2-Hexanone	11.200	43	86733	30.888	ug/l #	1
72) 1,2,3-Trichloropropane	12.847	75	56586	13.795	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	56586	33.709	ug/l #	14

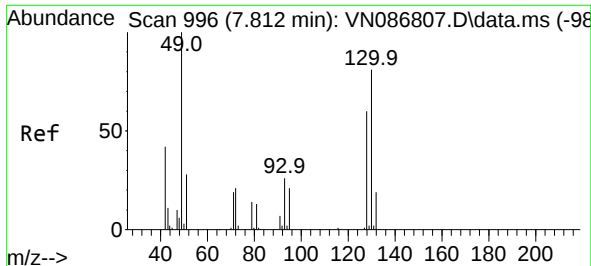
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 31 03:48:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N052925W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri May 30 02:22:52 2025
Response via : Initial Calibration

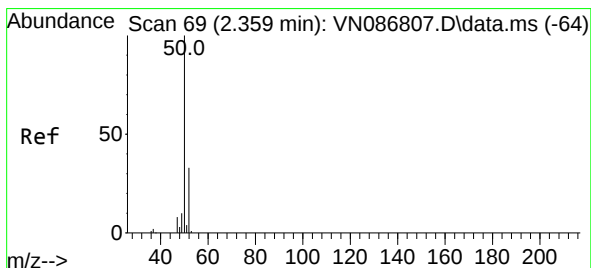
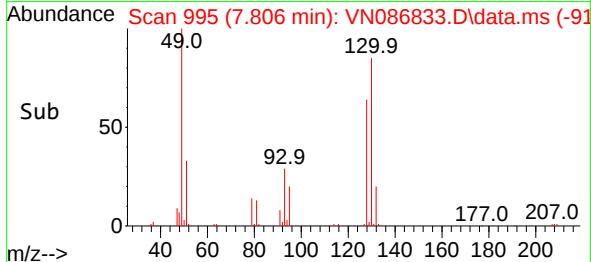
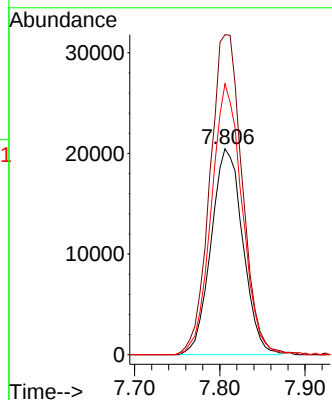
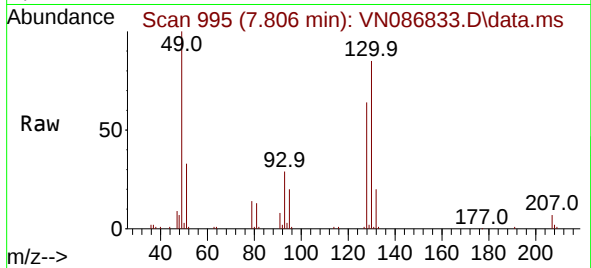




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.806 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN086833.D
Acq: 30 May 2025 14:37

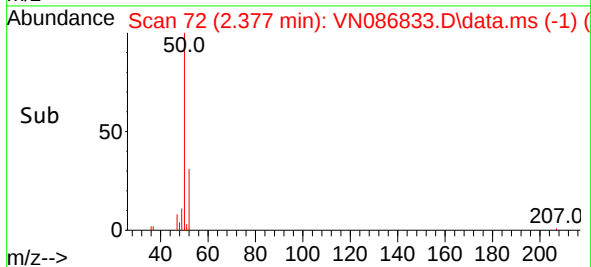
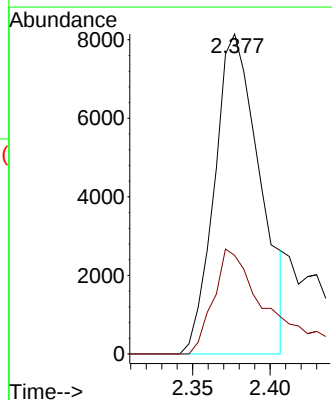
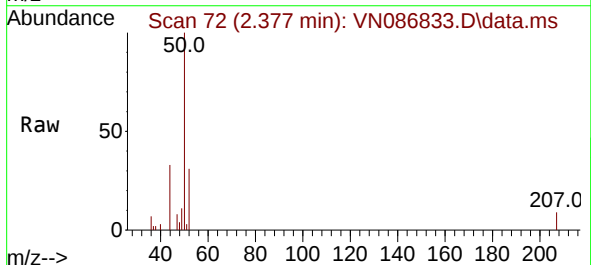
Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#04

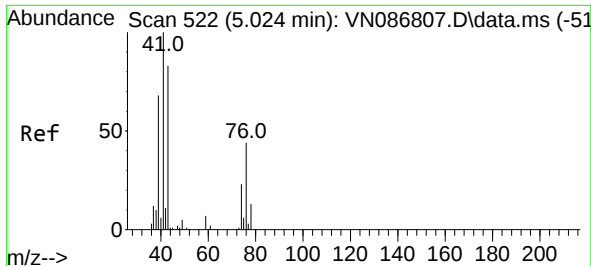
Tgt Ion:128 Resp: 52841
Ion Ratio Lower Upper
128 100
49 158.1 0.0 404.5
130 127.7 0.0 322.2



#3
Chloromethane
Concen: 3.594 ug/l
RT: 2.377 min Scan# 72
Delta R.T. 0.018 min
Lab File: VN086833.D
Acq: 30 May 2025 14:37

Tgt Ion: 50 Resp: 16632
Ion Ratio Lower Upper
50 100
52 30.8 26.6 40.0

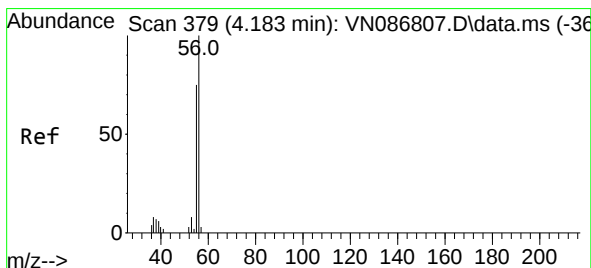
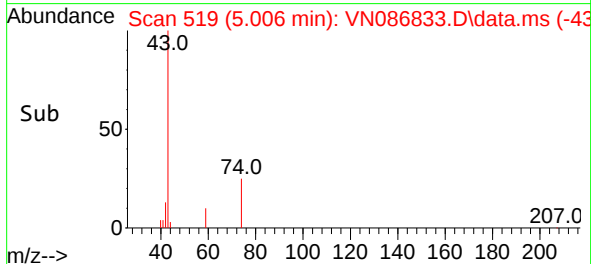
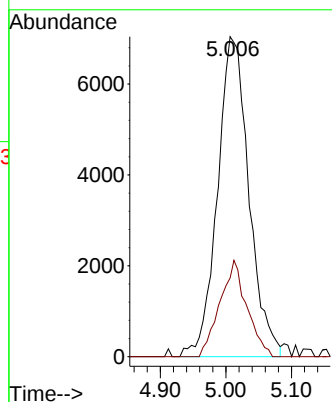
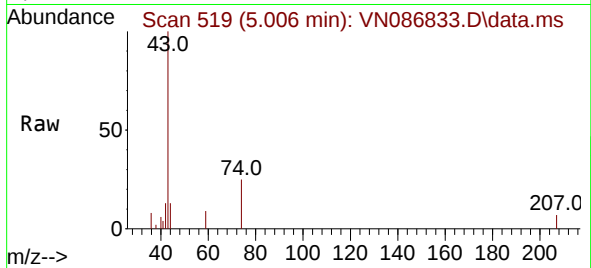




#12
Methyl Acetate
Concen: 6.771 ug/l
RT: 5.006 min Scan# 51
Delta R.T. -0.018 min
Lab File: VN086833.D
Acq: 30 May 2025 14:37

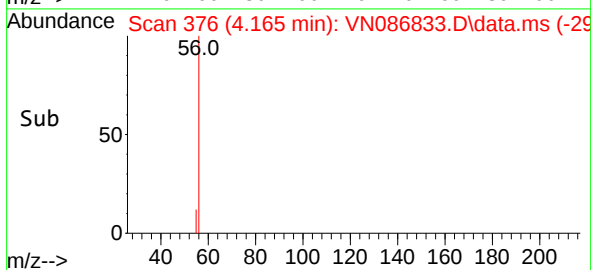
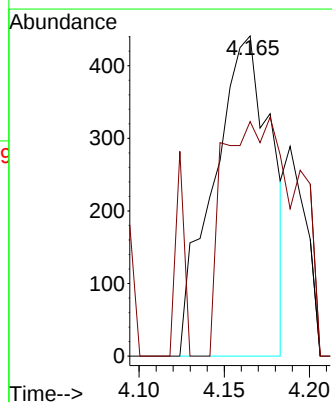
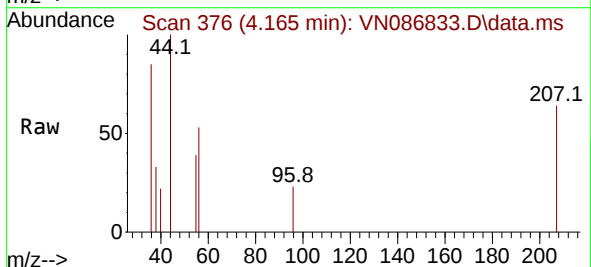
Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#04

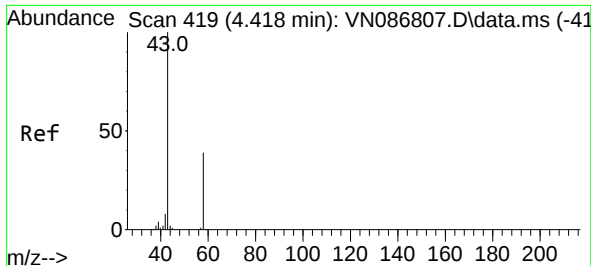
Tgt Ion: 43 Resp: 23433
Ion Ratio Lower Upper
43 100
74 25.0 22.7 34.1



#13
Acrolein
Concen: 2.895 ug/l
RT: 4.165 min Scan# 376
Delta R.T. -0.018 min
Lab File: VN086833.D
Acq: 30 May 2025 14:37

Tgt Ion: 56 Resp: 1035
Ion Ratio Lower Upper
56 100
55 19.9 55.9 83.9#





#15

Acetone

Concen: 33.073 ug/l

RT: 4.412 min Scan# 41

Delta R.T. -0.006 min

Lab File: VN086833.D

Acq: 30 May 2025 14:37

Instrument :

MSVOA_N

ClientSampleId :

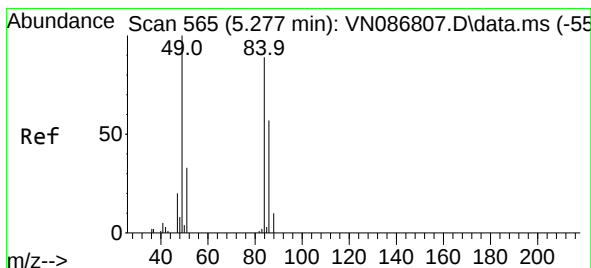
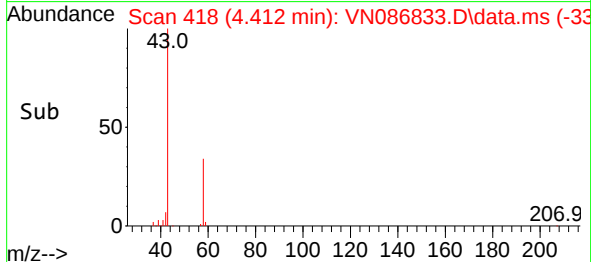
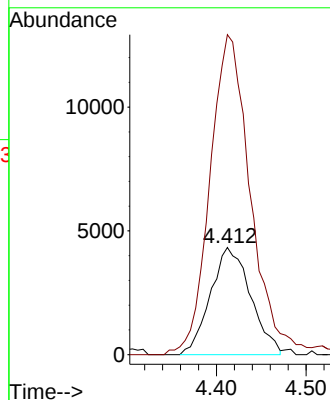
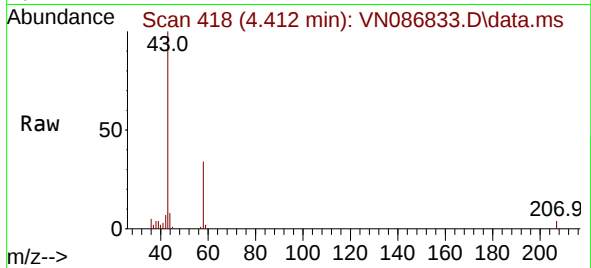
PB168191ZHE#04

Tgt Ion: 58 Resp: 13486

Ion Ratio Lower Upper

58 100

43 291.0 207.7 311.5



#18

Methylene Chloride

Concen: 1.359 ug/l

RT: 5.253 min Scan# 561

Delta R.T. -0.024 min

Lab File: VN086833.D

Acq: 30 May 2025 14:37

Tgt Ion: 84 Resp: 4918

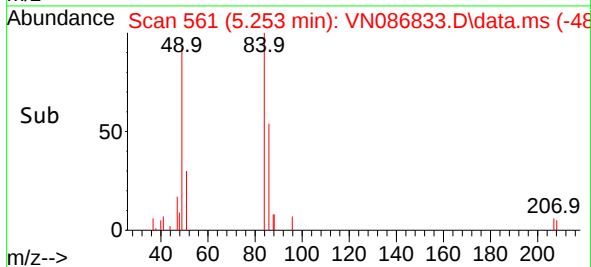
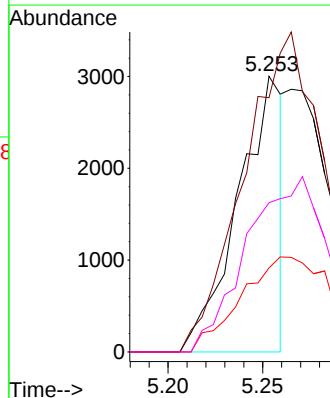
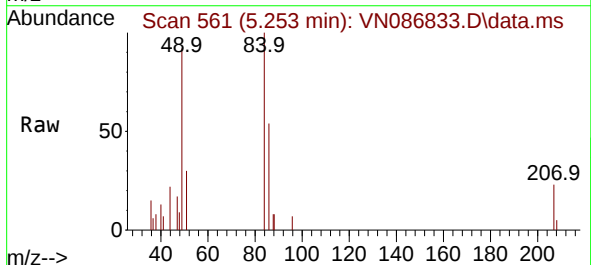
Ion Ratio Lower Upper

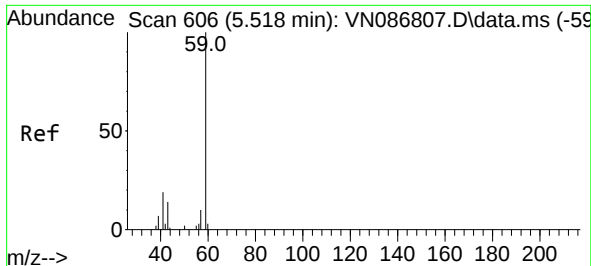
84 100

49 92.2 89.9 134.9

51 30.4 29.6 44.4

86 54.1 51.7 77.5

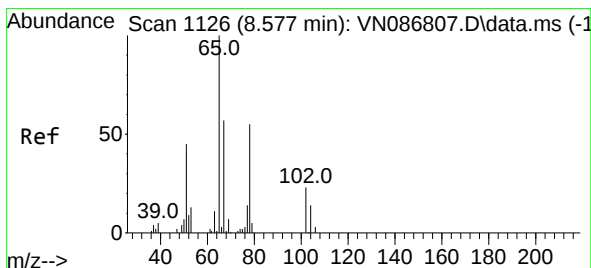
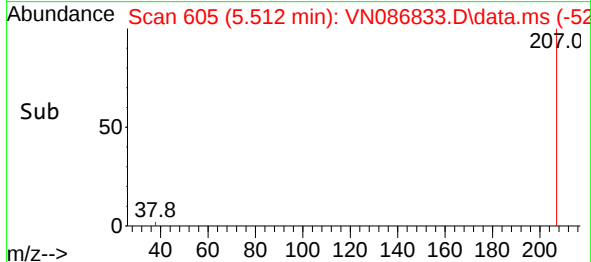
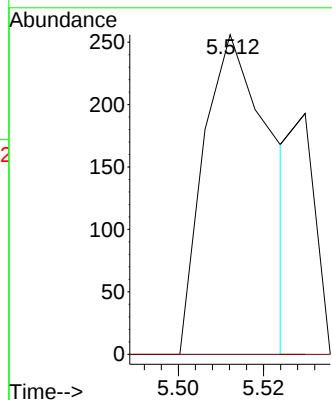
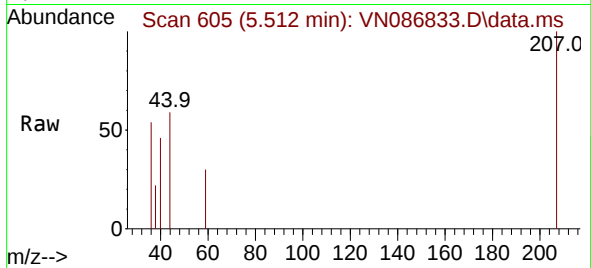




#23
tert-Butyl Alcohol
Concen: 0.545 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.006 min
Lab File: VN086833.D
Acq: 30 May 2025 14:37

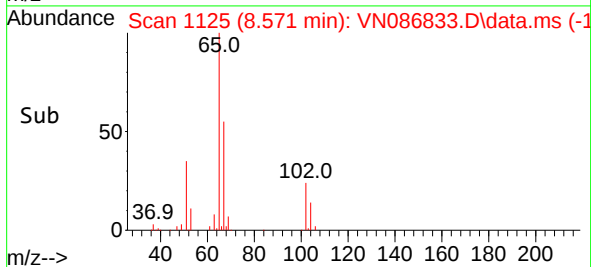
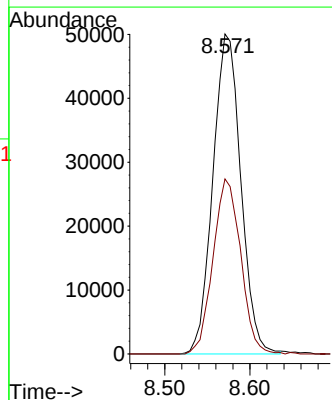
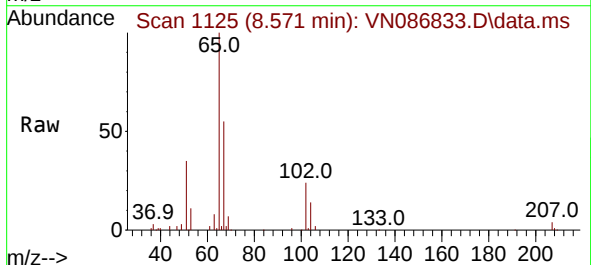
Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#04

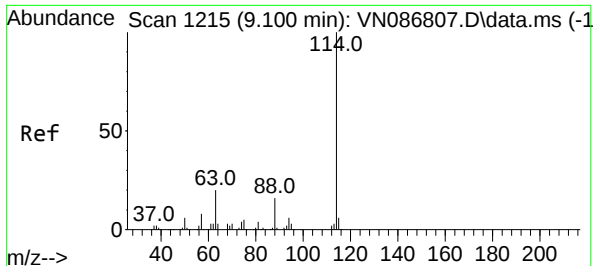
Tgt Ion: 59 Resp: 282
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#27
1,2-Dichloroethane-d4
Concen: 31.467 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. -0.006 min
Lab File: VN086833.D
Acq: 30 May 2025 14:37

Tgt Ion: 65 Resp: 114241
Ion Ratio Lower Upper
65 100
67 54.1 44.6 67.0





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.094 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN086833.D

Acq: 30 May 2025 14:37

Instrument :

MSVOA_N

ClientSampleId :

PB168191ZHE#04

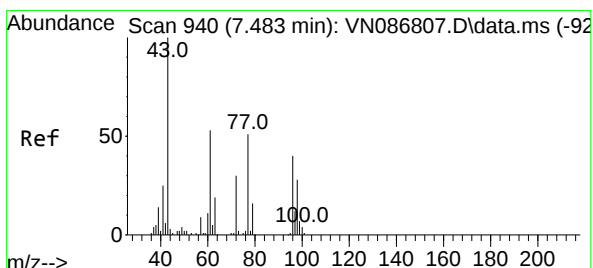
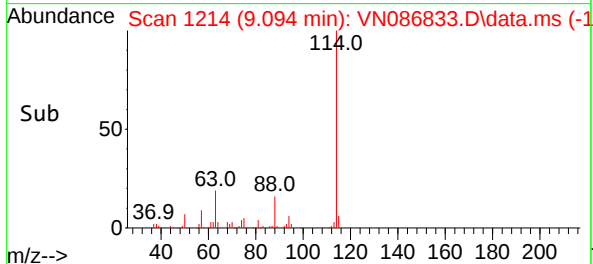
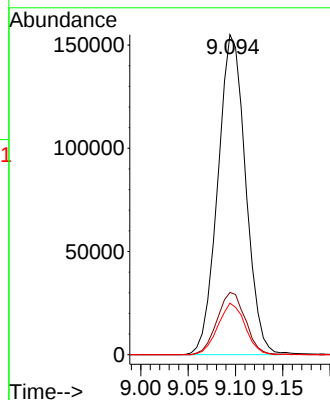
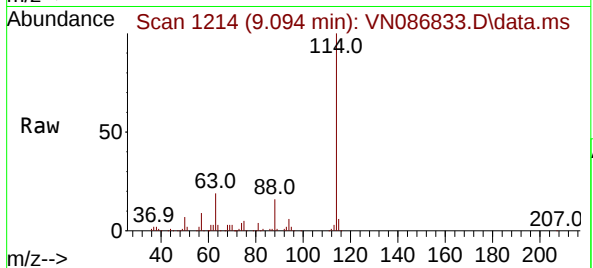
Tgt Ion:114 Resp: 316542

Ion Ratio Lower Upper

114 100

63 19.8 15.8 23.8

88 15.7 12.9 19.3



#30

2-Butanone

Concen: 4.032 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN086833.D

Acq: 30 May 2025 14:37

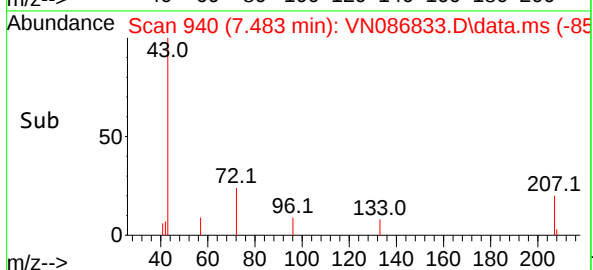
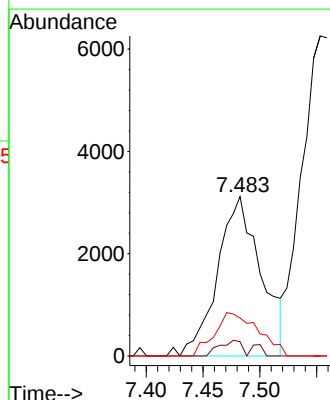
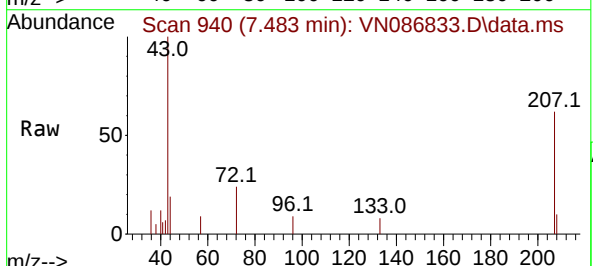
Tgt Ion: 43 Resp: 8223

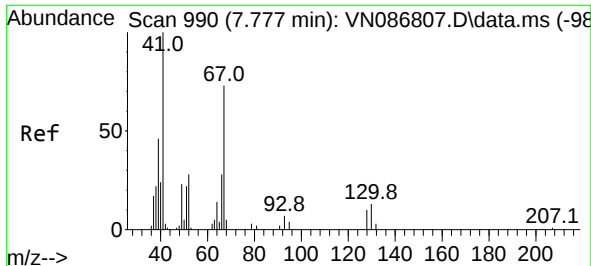
Ion Ratio Lower Upper

43 100

57 5.0 6.8 10.2#

72 27.7 23.4 35.0

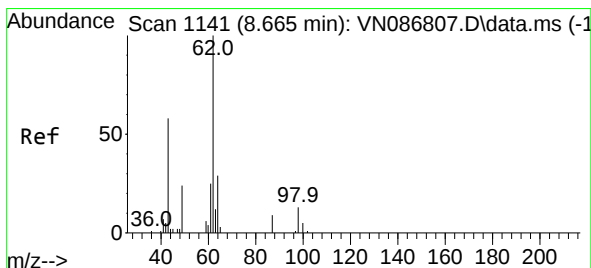
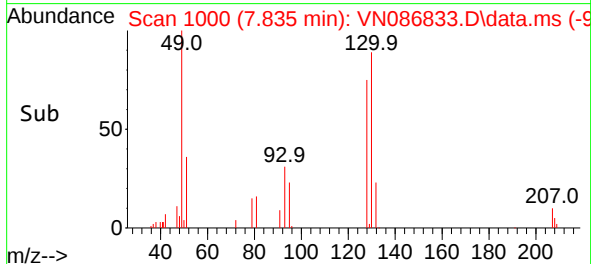
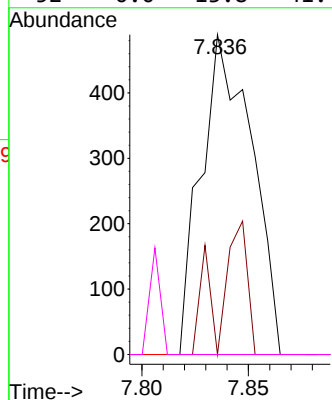
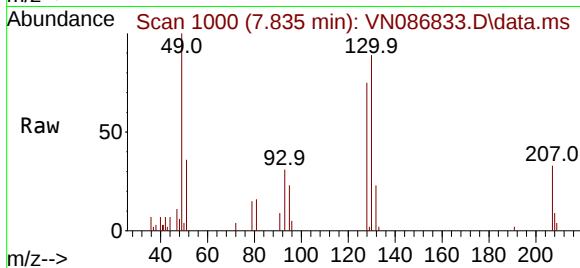




#35
Methacrylonitrile
Concen: 0.345 ug/l
RT: 7.835 min Scan# 10
Delta R.T. 0.059 min
Lab File: VN086833.D
Acq: 30 May 2025 14:37

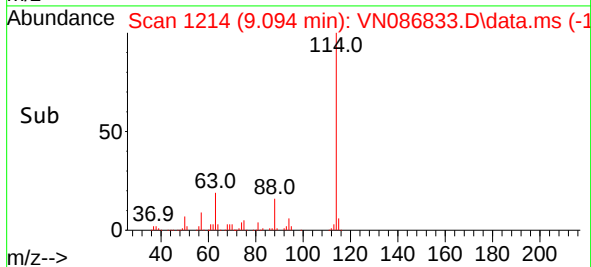
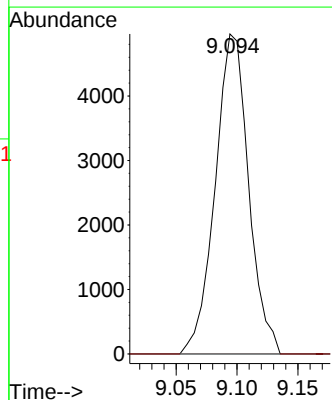
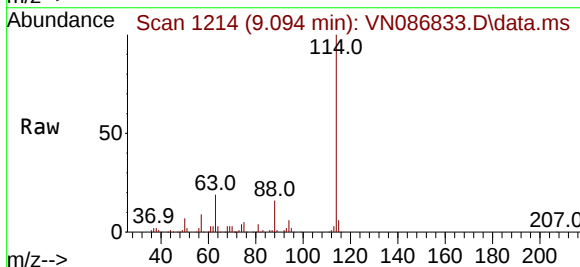
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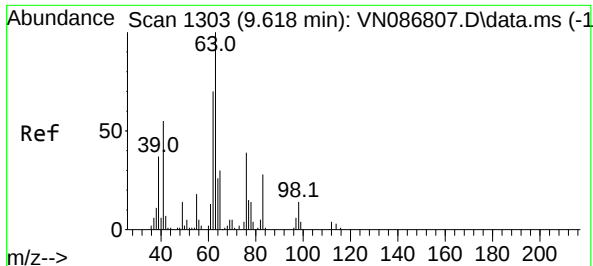
Tgt Ion:	41	Resp:	809
Ion	Ratio	Lower	Upper
41	100		
39	0.0	23.2	69.6#
67	0.0	36.5	109.7#
52	0.0	13.8	41.4#



#36
1,2-Dichloroethane
Concen: 2.140 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. 0.429 min
Lab File: VN086833.D
Acq: 30 May 2025 14:37

Tgt Ion:	62	Resp:	9498
Ion	Ratio	Lower	Upper
62	100		
98	0.0	8.5	12.7#





#39

1,2-Dichloropropane

Concen: 0.444 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN086833.D

Acq: 30 May 2025 14:37

Instrument :

MSVOA_N

ClientSampleId :

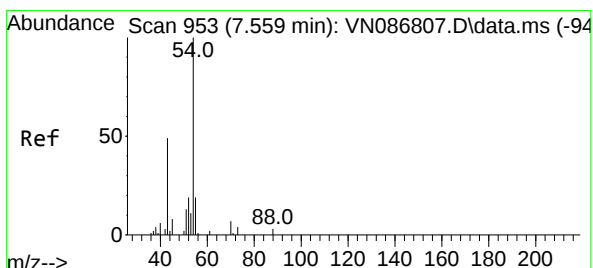
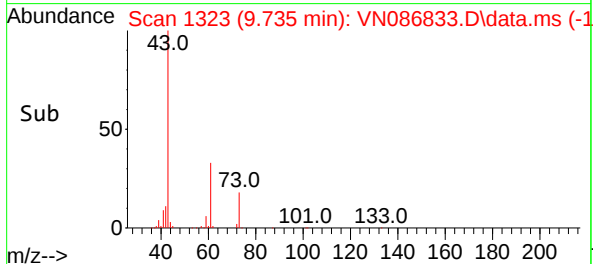
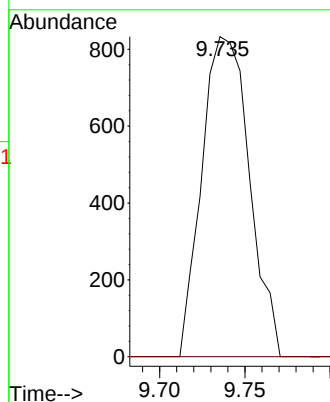
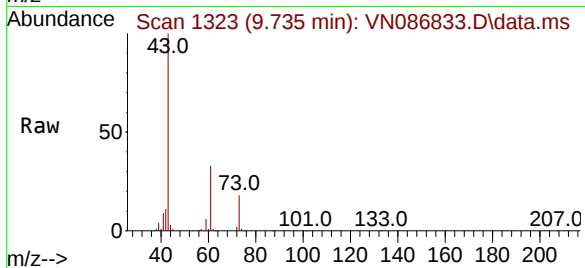
PB168191ZHE#04

Tgt Ion: 63 Resp: 1620

Ion Ratio Lower Upper

63 100

65 0.0 24.2 36.4#



#43

Ethyl Acetate

Concen: 3.979 ug/l

RT: 7.553 min Scan# 952

Delta R.T. -0.006 min

Lab File: VN086833.D

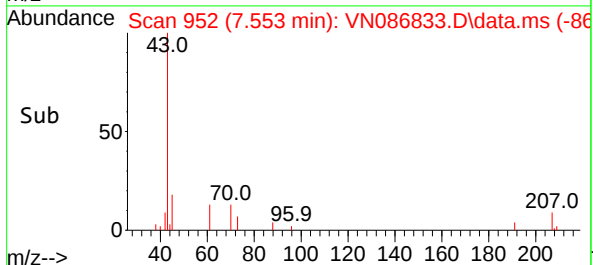
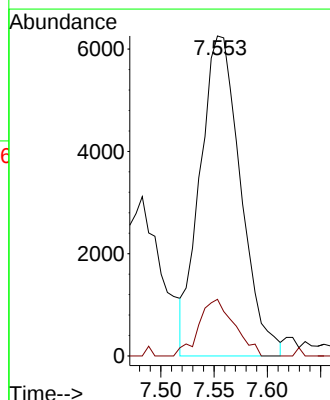
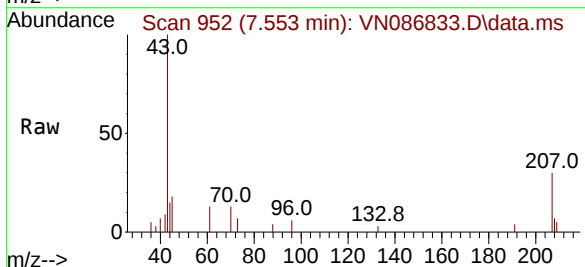
Acq: 30 May 2025 14:37

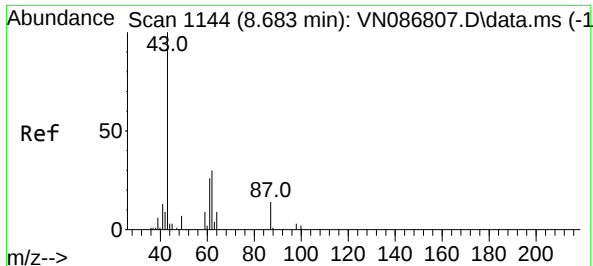
Tgt Ion: 43 Resp: 16603

Ion Ratio Lower Upper

43 100

45 14.2 11.1 16.7

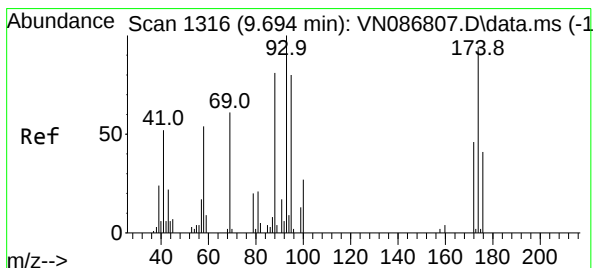
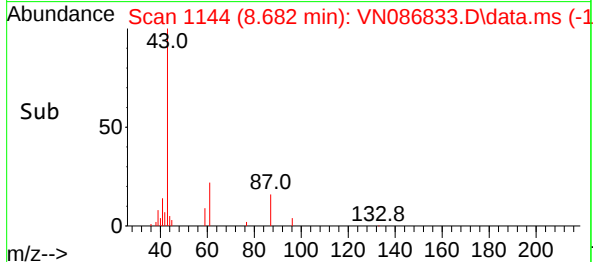
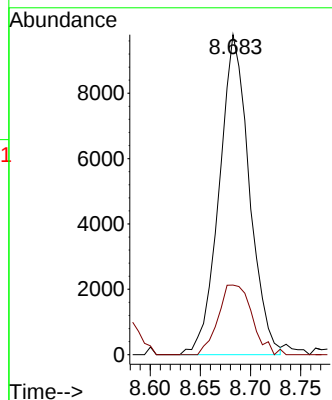
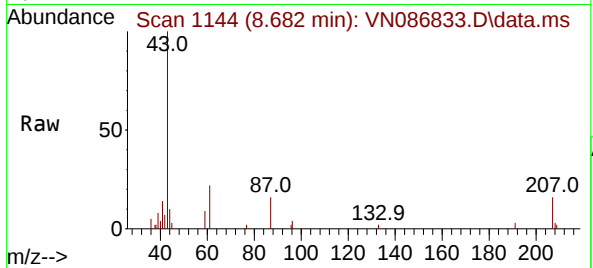




#44
Isopropyl Acetate
Concen: 2.854 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086833.D
Acq: 30 May 2025 14:37

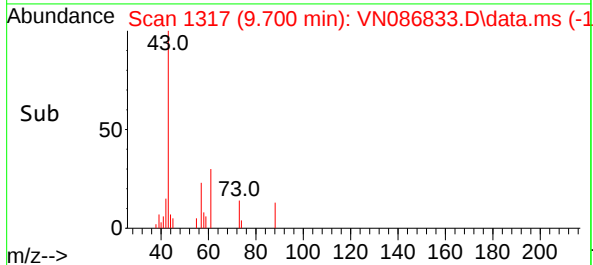
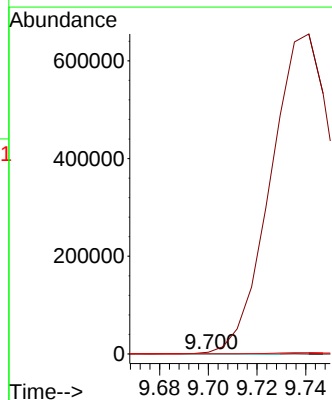
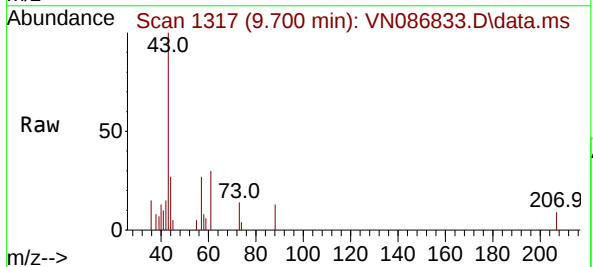
Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#04

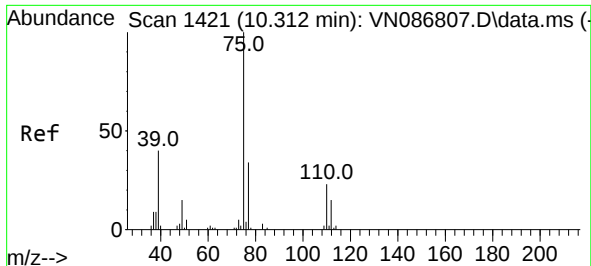
Tgt Ion: 43 Resp: 20428
Ion Ratio Lower Upper
43 100
61 24.1 23.8 35.6



#45
1,4-Dioxane
Concen: 10.845 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. 0.006 min
Lab File: VN086833.D
Acq: 30 May 2025 14:37

Tgt Ion: 88 Resp: 690
Ion Ratio Lower Upper
88 100
43 0.0 23.0 34.6#
58 0.0 57.6 86.4#

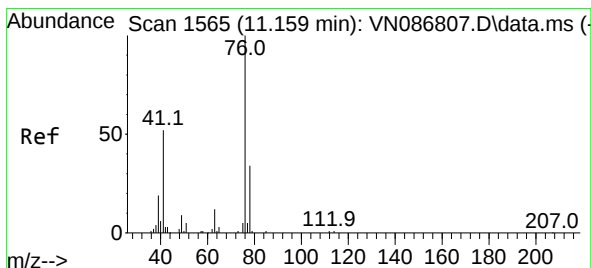
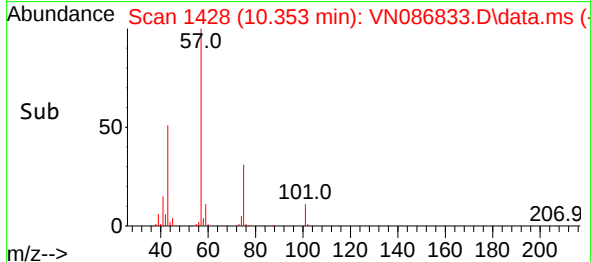
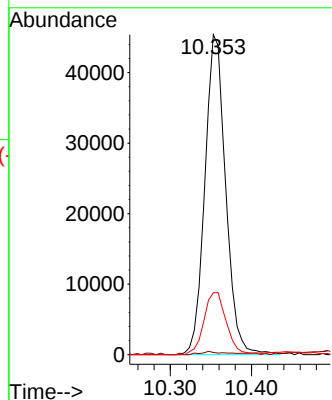
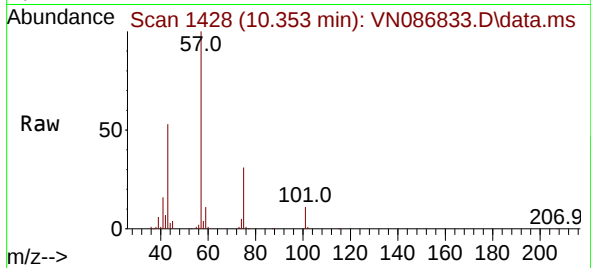




#49
cis-1,3-Dichloropropene
Concen: 13.766 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.041 min
Lab File: VN086833.D
Acq: 30 May 2025 14:37

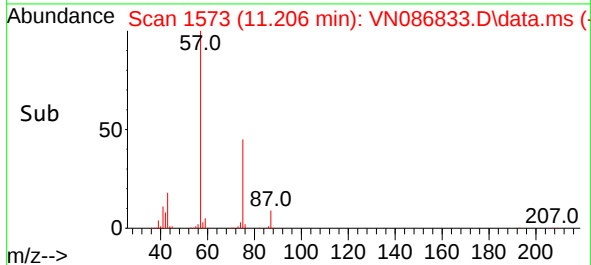
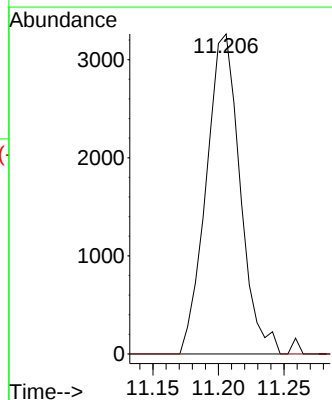
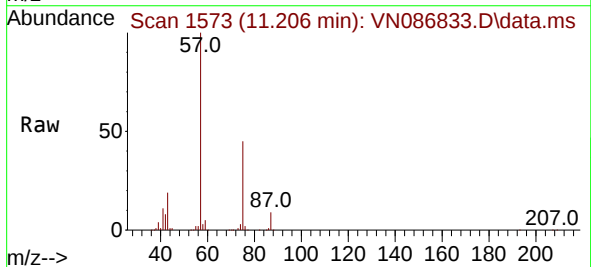
Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#04

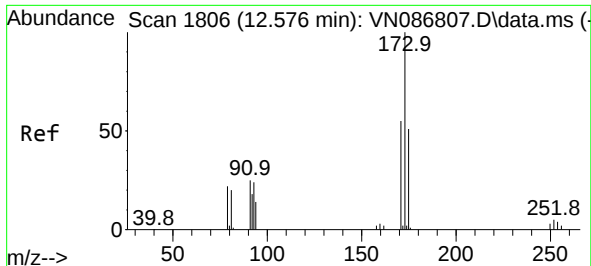
Tgt Ion:	75	Resp:	80873
Ion Ratio	Lower	Upper	
75	100		
77	0.3	26.9	40.3#
39	19.3	31.8	47.6#



#52
1,3-Dichloropropane
Concen: 0.984 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.047 min
Lab File: VN086833.D
Acq: 30 May 2025 14:37

Tgt Ion:	76	Resp:	5866
Ion Ratio	Lower	Upper	
76	100		
78	0.0	0.0	64.6

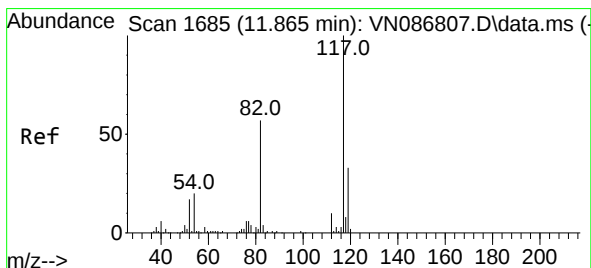
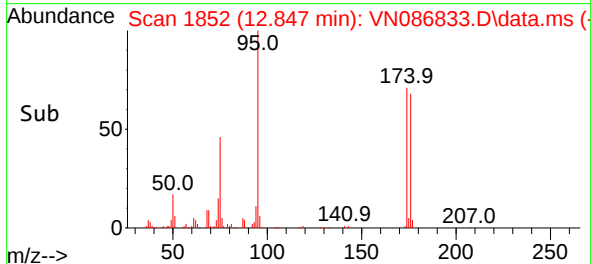
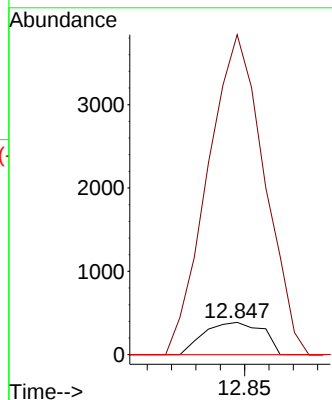
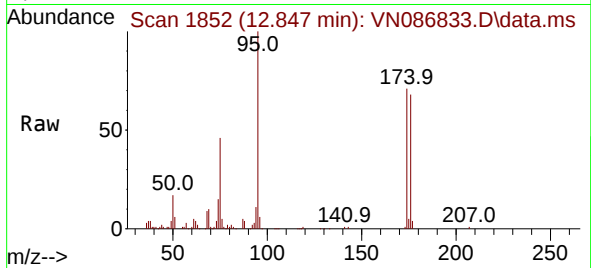




#56
Bromoform
Concen: 0.274 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.271 min
Lab File: VN086833.D
Acq: 30 May 2025 14:37

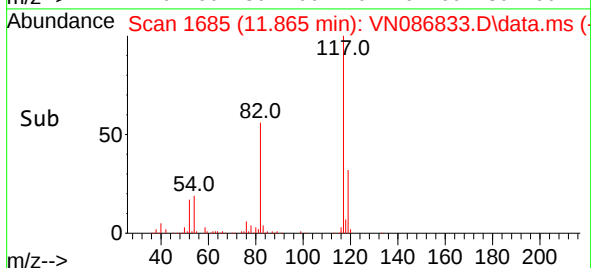
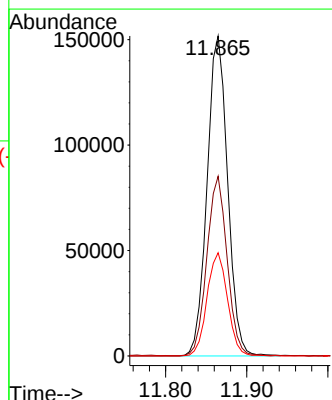
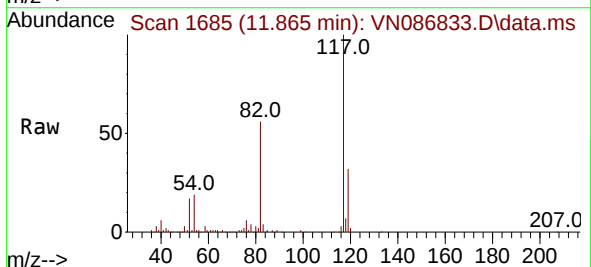
Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#04

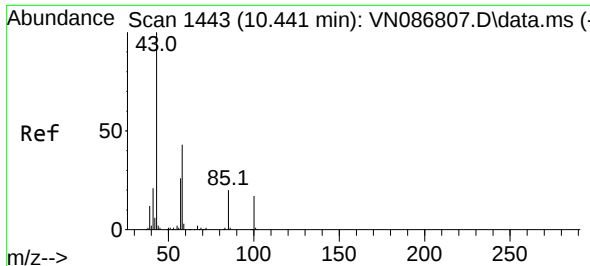
Tgt Ion:173 Resp: 655
Ion Ratio Lower Upper
173 100
175 950.7 39.7 59.5#
254 0.0 3.5 5.3#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086833.D
Acq: 30 May 2025 14:37

Tgt Ion:117 Resp: 267158
Ion Ratio Lower Upper
117 100
82 55.5 44.7 67.1
119 32.0 25.6 38.4

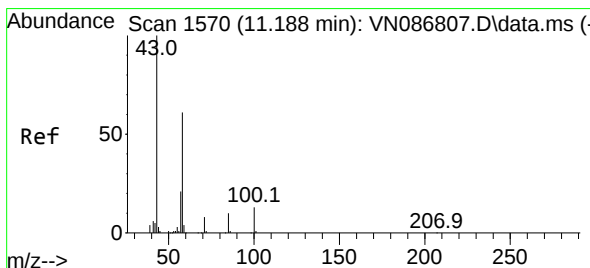
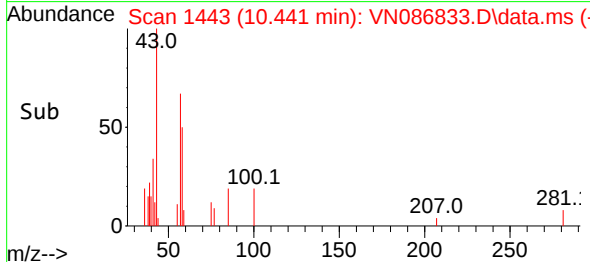
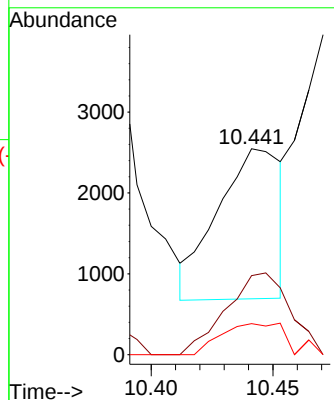
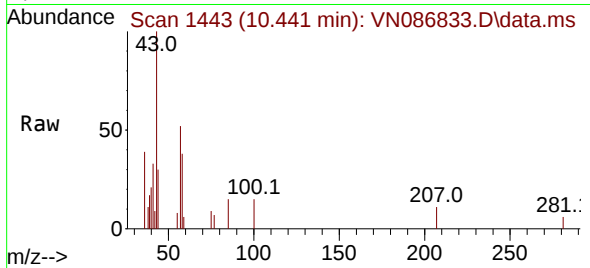




#58
4-Methyl-2-Pentanone
Concen: 0.863 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086833.D
Acq: 30 May 2025 14:37

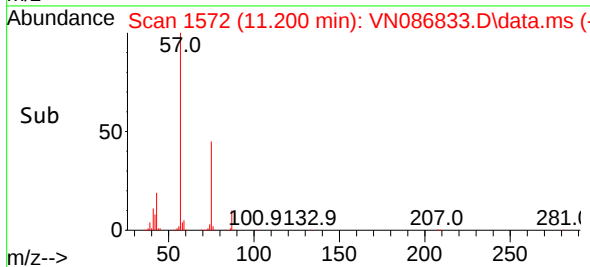
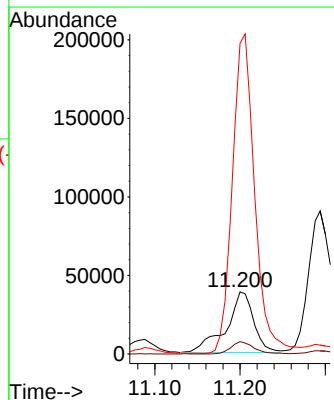
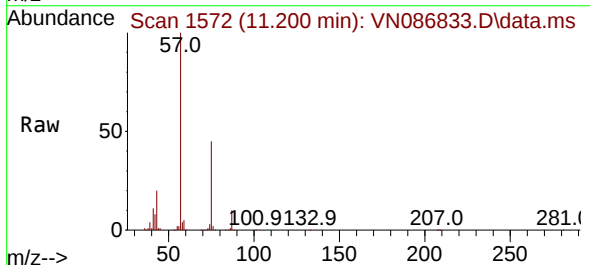
Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#04

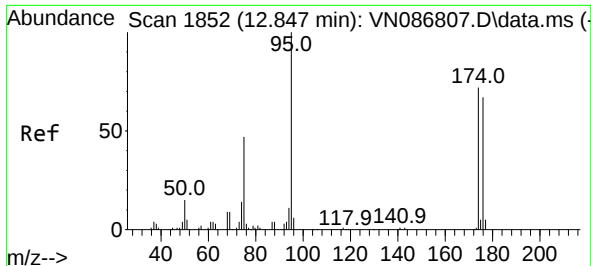
Tgt Ion: 43 Resp: 3384
Ion Ratio Lower Upper
43 100
58 54.3 34.5 51.7#
85 15.7 15.8 23.8#



#59
2-Hexanone
Concen: 30.888 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.012 min
Lab File: VN086833.D
Acq: 30 May 2025 14:37

Tgt Ion: 43 Resp: 86733
Ion Ratio Lower Upper
43 100
58 16.9 49.1 73.7#
57 429.3 16.6 25.0#

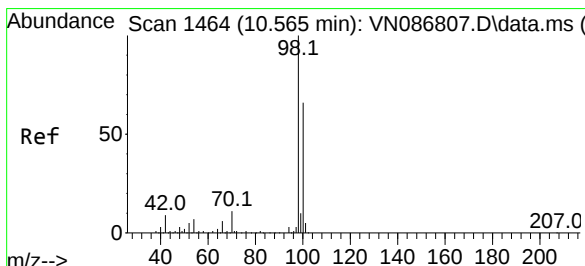
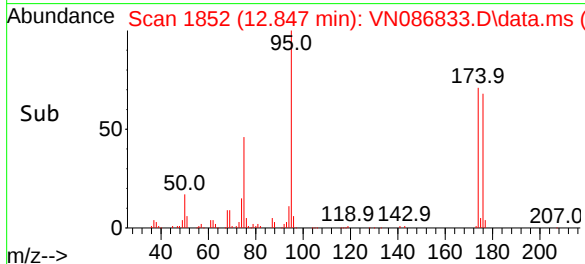
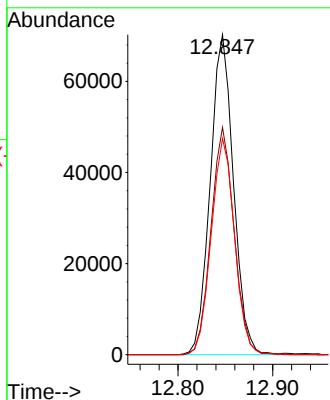
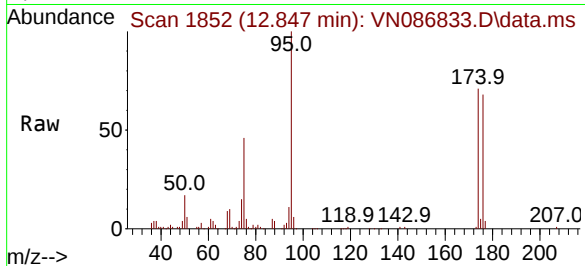




#60
4-Bromofluorobenzene
Concen: 28.578 ug/l
RT: 12.847 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086833.D
Acq: 30 May 2025 14:37

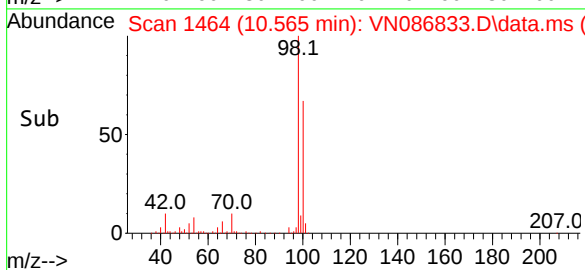
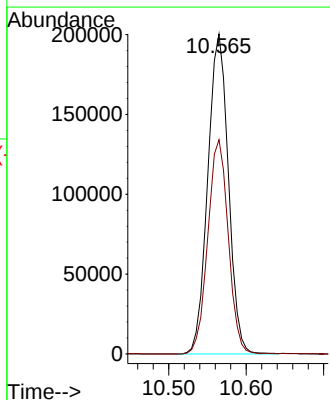
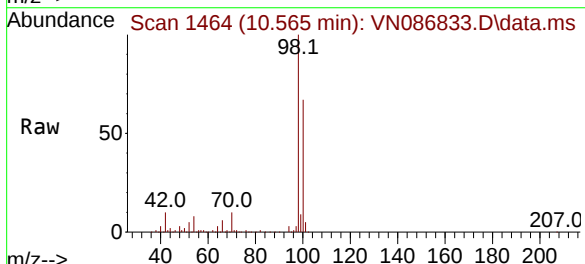
Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#04

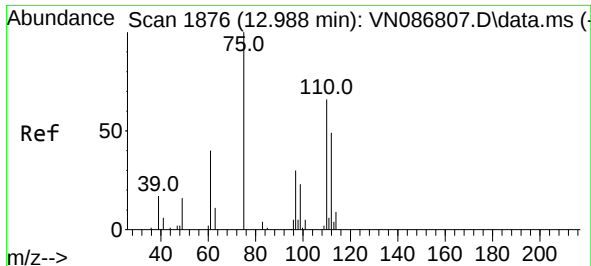
Tgt Ion: 95 Resp: 119870
Ion Ratio Lower Upper
95 100
174 70.7 56.2 84.4
176 67.5 53.4 80.0



#63
Toluene-d8
Concen: 30.161 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086833.D
Acq: 30 May 2025 14:37

Tgt Ion: 98 Resp: 369835
Ion Ratio Lower Upper
98 100
100 66.4 52.7 79.1

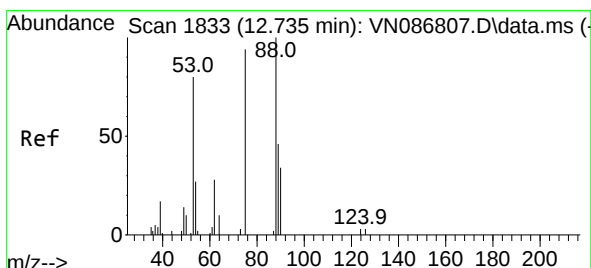
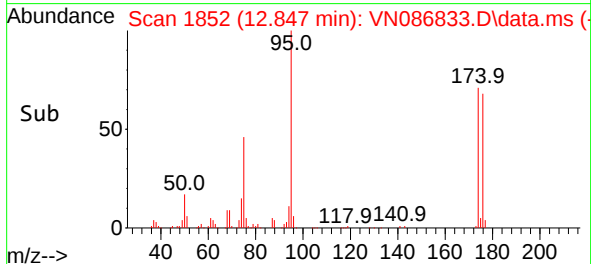
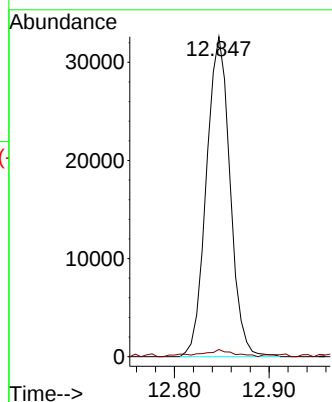
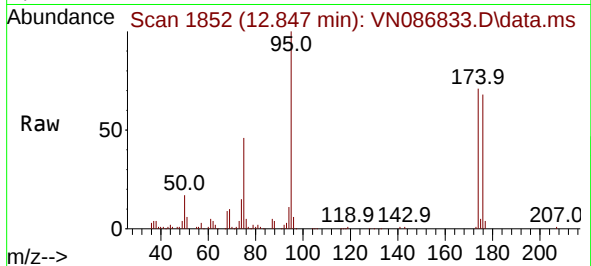




#72
1,2,3-Trichloropropane
Concen: 13.795 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086833.D
Acq: 30 May 2025 14:37

Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#04

Tgt Ion: 75 Resp: 56586
Ion Ratio Lower Upper
75 100
77 2.5 0.0 390.6



#77
t-1,4-Dichloro-2-butene
Concen: 33.709 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086833.D
Acq: 30 May 2025 14:37

Tgt Ion: 75 Resp: 56586
Ion Ratio Lower Upper
75 100
53 0.0 43.0 128.8#
89 0.0 25.4 76.2#

