

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN053025\
 Data File : VN086832.D
 Acq On : 30 May 2025 14:13
 Operator : JC\MD
 Sample : PB168191ZHE#03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168191ZHE#03

Quant Time: May 31 03:47:42 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)

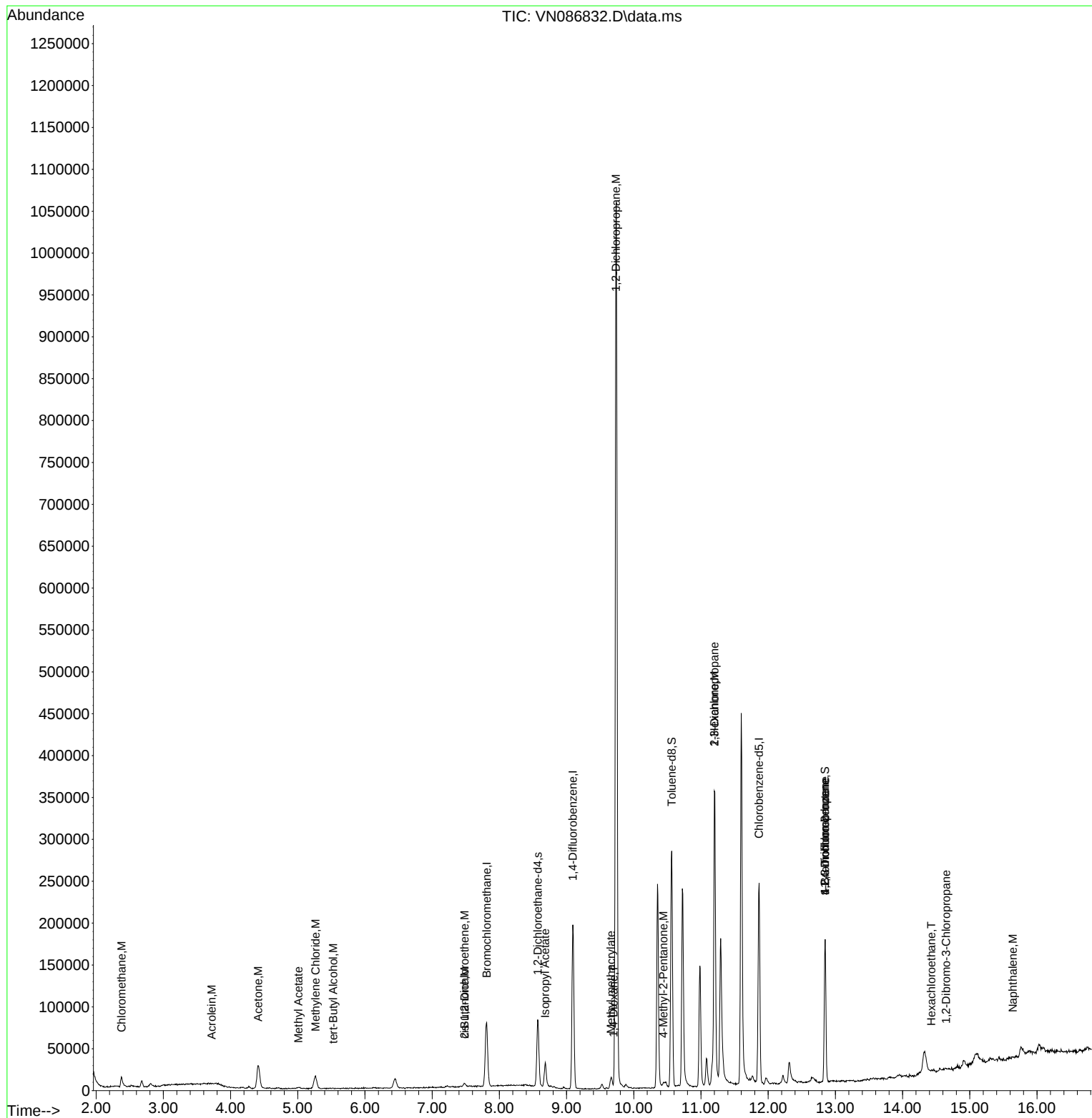
Internal Standards						
1) Bromochloromethane	7.812	128	29607	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	180698	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	149313	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	65510	32.204	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	107.333%
60) 4-Bromofluorobenzene	12.847	95	67452	28.773	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	95.900%
63) Toluene-d8	10.565	98	206580	30.143	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.467%
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	20527	7.917	ug/l	95
12) Methyl Acetate	5.012	43	3544	1.828	ug/l	92
13) Acrolein	3.718	56	128	0.639	ug/l	91
15) Acetone	4.412	58	18105	79.244	ug/l	84
18) Methylene Chloride	5.265	84	12580	6.204	ug/l	94
22) cis-1,2-Dichloroethene	7.483	96	460	0.208	ug/l #	1
23) tert-Butyl Alcohol	5.530	59	119	0.411	ug/l #	100
30) 2-Butanone	7.483	43	7212	6.195	ug/l #	79
39) 1,2-Dichloropropane	9.735	63	1488	0.715	ug/l #	44
44) Isopropyl Acetate	8.682	43	31898	7.806	ug/l #	88
45) 1,4-Dioxane	9.700	88	941	25.910	ug/l #	78
46) Methyl methacrylate	9.659	41	2220	1.178	ug/l #	28
52) 1,3-Dichloropropane	11.200	76	4497	1.322	ug/l #	42
58) 4-Methyl-2-Pentanone	10.441	43	2772	1.265	ug/l #	77
59) 2-Hexanone	11.200	43	53285	33.953	ug/l #	1
72) 1,2,3-Trichloropropane	12.847	75	32166	14.031	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	32166	34.285	ug/l #	14
86) Hexachloroethane	14.429	117	261	0.226	ug/l #	19
88) 1,2-Dibromo-3-Chloropr...	14.647	75	129	0.313	ug/l #	3
91) Naphthalene	15.641	128	1614	0.305	ug/l #	81

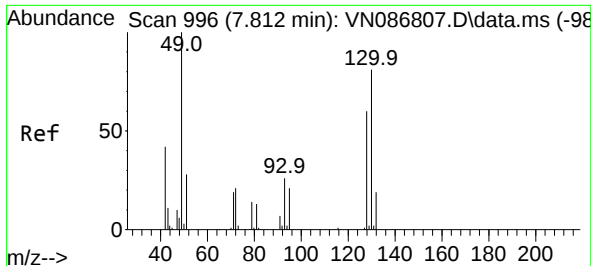
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN053025\
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Quant Time: May 31 03:47:42 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

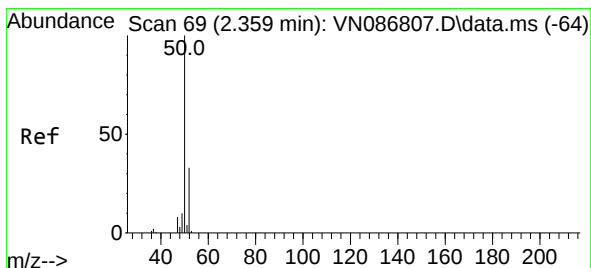
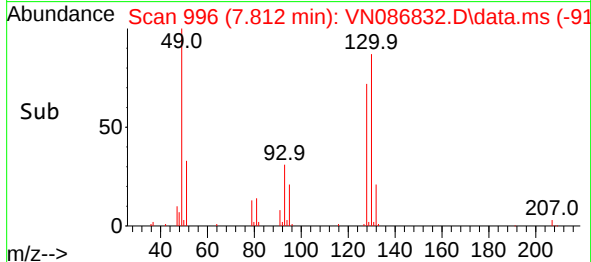
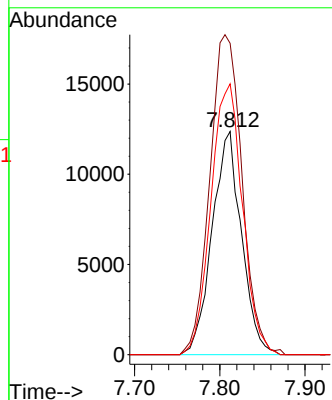
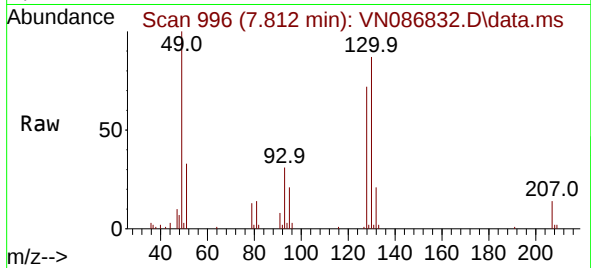




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN086832.D
Acq: 30 May 2025 14:13

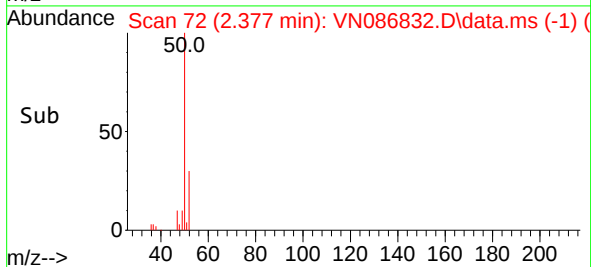
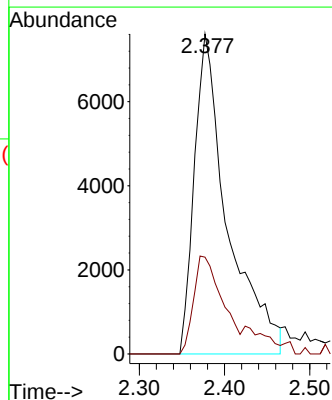
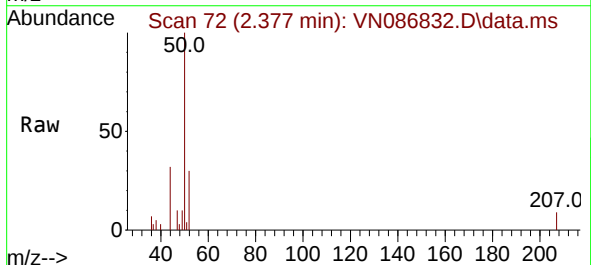
Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#03

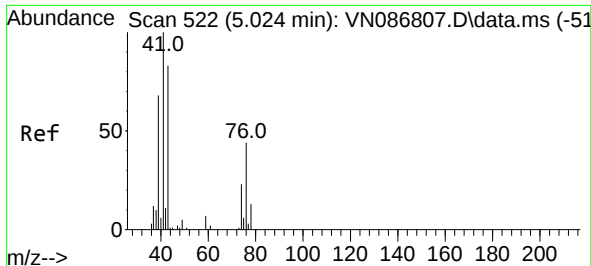
Tgt Ion:128 Resp: 29607
Ion Ratio Lower Upper
128 100
49 157.3 0.0 404.5
130 130.9 0.0 322.2



#3
Chloromethane
Concen: 7.917 ug/l
RT: 2.377 min Scan# 72
Delta R.T. 0.018 min
Lab File: VN086832.D
Acq: 30 May 2025 14:13

Tgt Ion: 50 Resp: 20527
Ion Ratio Lower Upper
50 100
52 30.2 26.6 40.0





#12

Methyl Acetate

Concen: 1.828 ug/l

RT: 5.012 min Scan# 51

Delta R.T. -0.012 min

Lab File: VN086832.D

Acq: 30 May 2025 14:13

Instrument :

MSVOA_N

ClientSampleId :

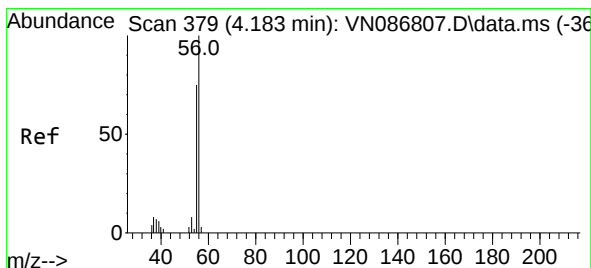
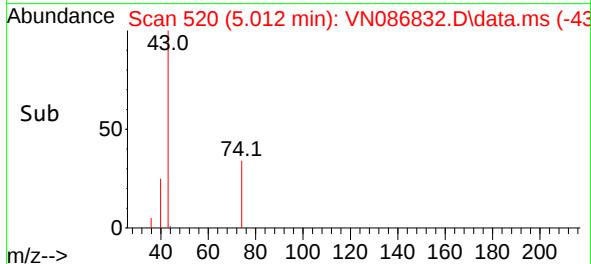
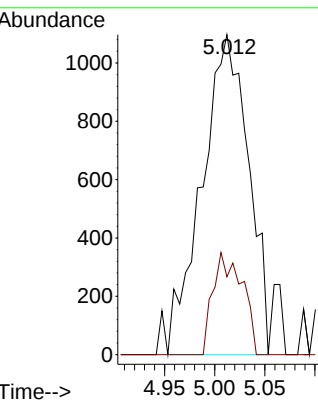
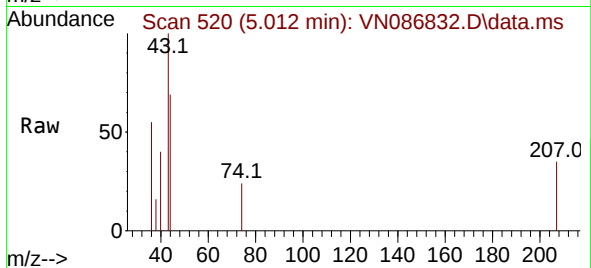
PB168191ZHE#03

Tgt Ion: 43 Resp: 3544

Ion Ratio Lower Upper

43 100

74 24.3 22.7 34.1



#13

Acrolein

Concen: 0.639 ug/l

RT: 3.718 min Scan# 300

Delta R.T. -0.465 min

Lab File: VN086832.D

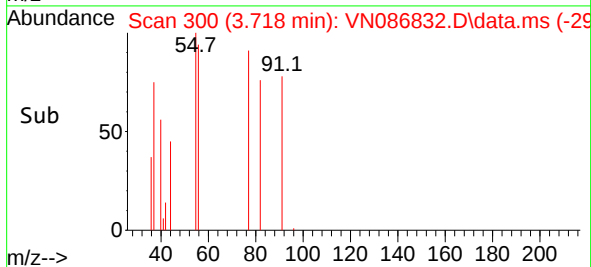
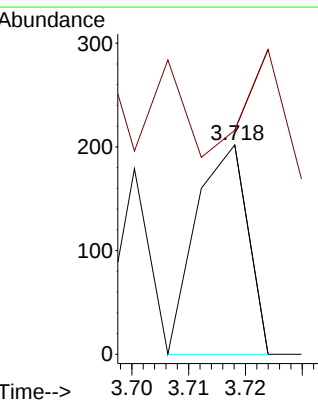
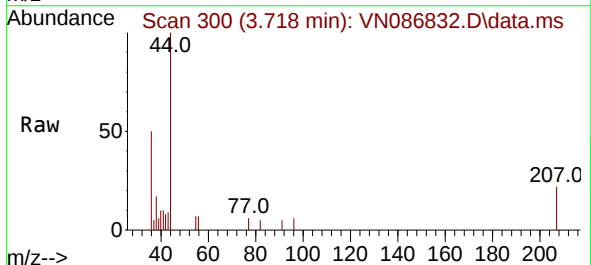
Acq: 30 May 2025 14:13

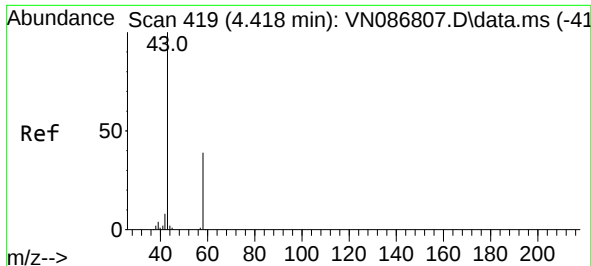
Tgt Ion: 56 Resp: 128

Ion Ratio Lower Upper

56 100

55 62.5 55.9 83.9

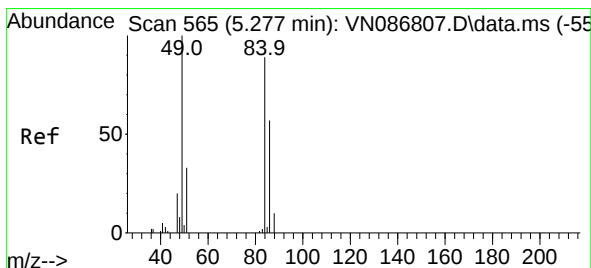
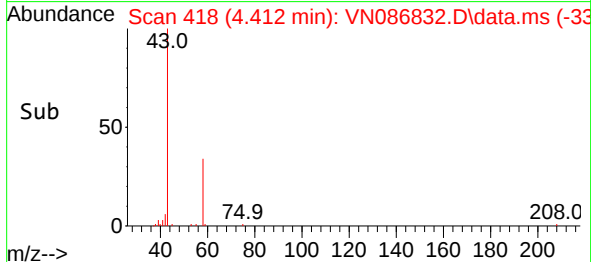
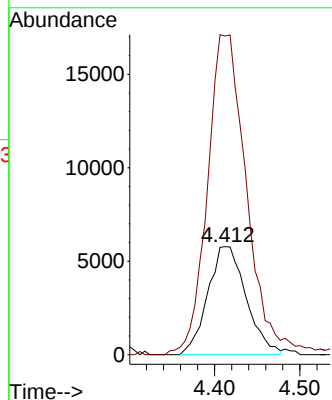
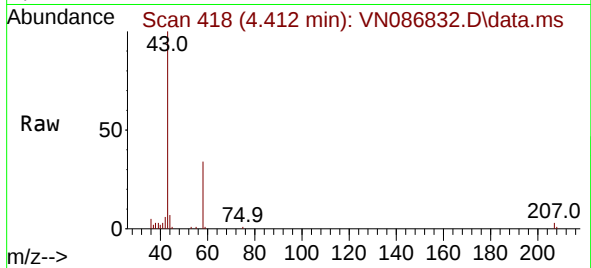




#15
Acetone
Concen: 79.244 ug/l
RT: 4.412 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN086832.D
Acq: 30 May 2025 14:13

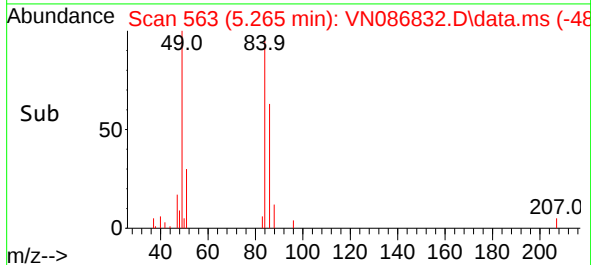
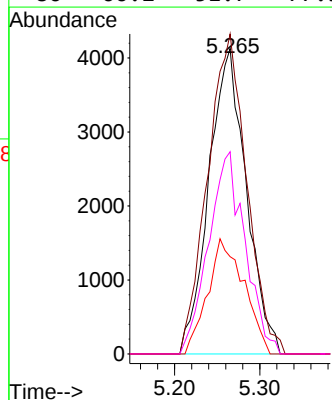
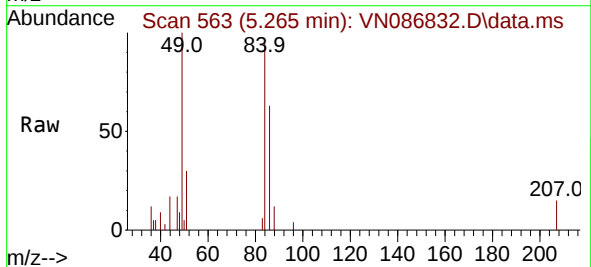
Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#03

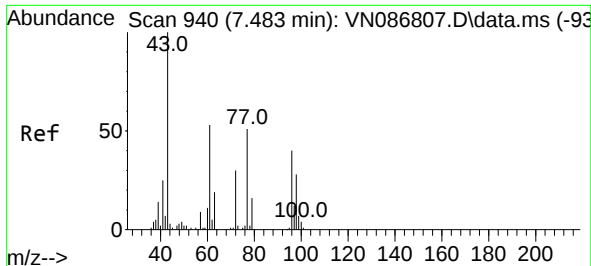
Tgt Ion: 58 Resp: 18105
Ion Ratio Lower Upper
58 100
43 288.3 207.7 311.5



#18
Methylene Chloride
Concen: 6.204 ug/l
RT: 5.265 min Scan# 563
Delta R.T. -0.012 min
Lab File: VN086832.D
Acq: 30 May 2025 14:13

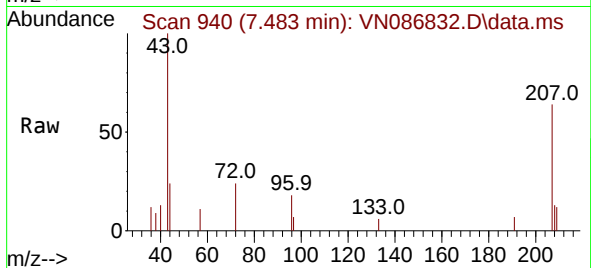
Tgt Ion: 84 Resp: 12580
Ion Ratio Lower Upper
84 100
49 104.7 89.9 134.9
51 31.8 29.6 44.4
86 66.2 51.7 77.5



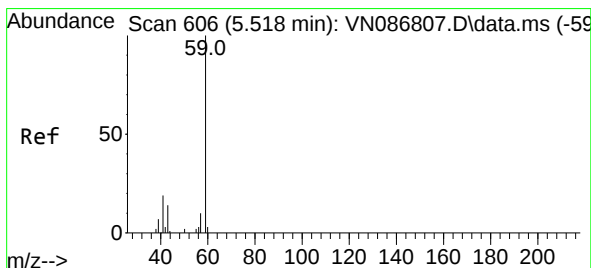
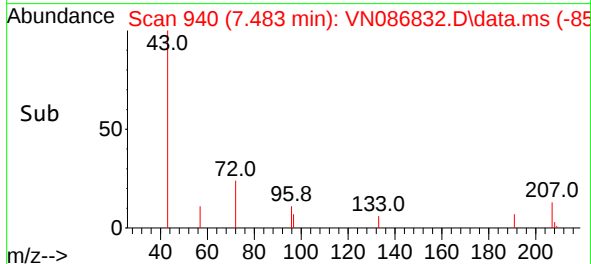
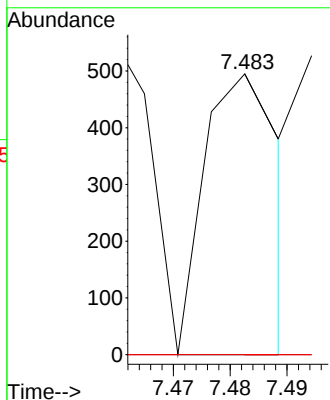


#22
cis-1,2-Dichloroethene
Concen: 0.208 ug/l
RT: 7.483 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN086832.D
Acq: 30 May 2025 14:13

Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#03

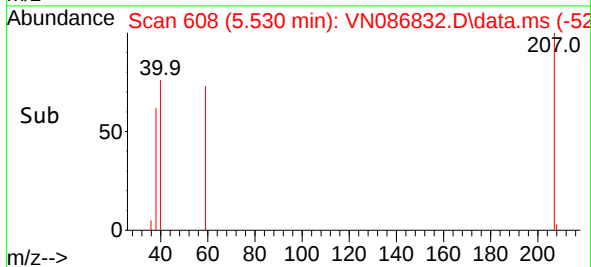
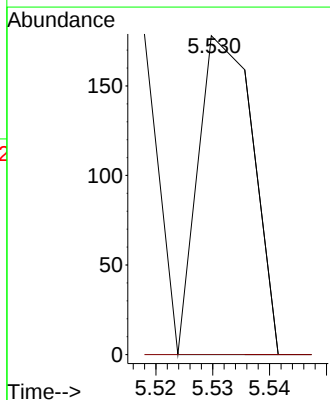
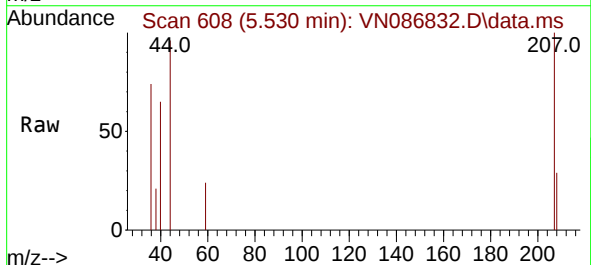


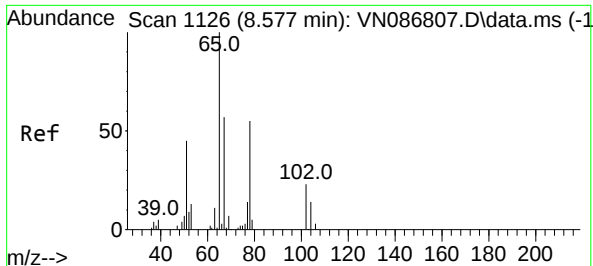
Tgt Ion: 96 Resp: 460
Ion Ratio Lower Upper
96 100
61 0.0 110.7 166.1#
98 0.0 51.8 77.8#



#23
tert-Butyl Alcohol
Concen: 0.411 ug/l
RT: 5.530 min Scan# 608
Delta R.T. 0.012 min
Lab File: VN086832.D
Acq: 30 May 2025 14:13

Tgt Ion: 59 Resp: 119
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

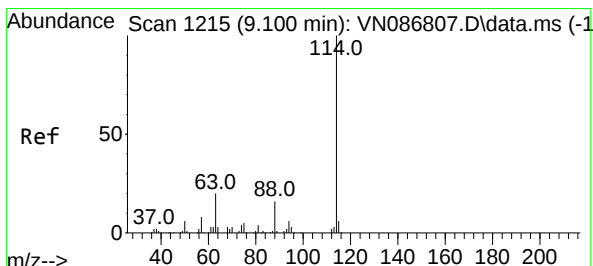
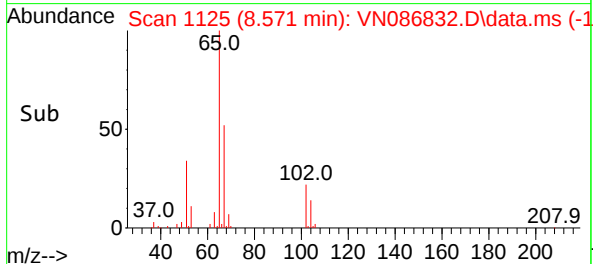
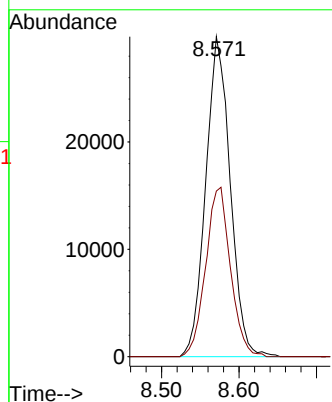
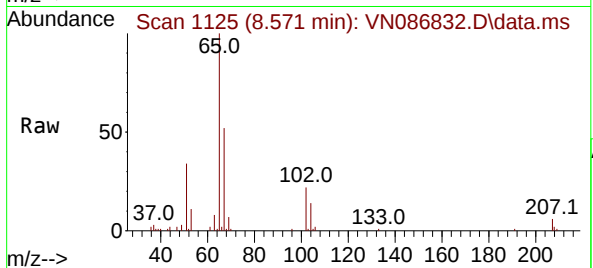




#27
1,2-Dichloroethane-d4
Concen: 32.204 ug/l
RT: 8.571 min Scan# 1126
Delta R.T. -0.006 min
Lab File: VN086832.D
Acq: 30 May 2025 14:13

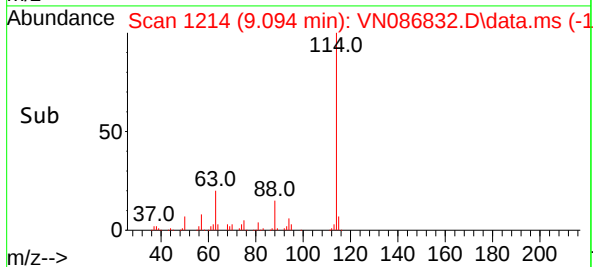
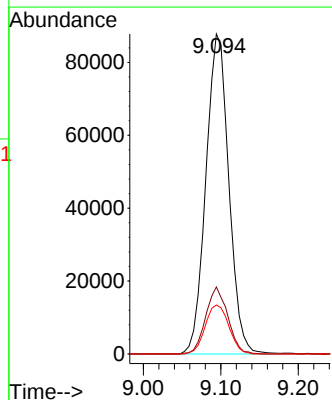
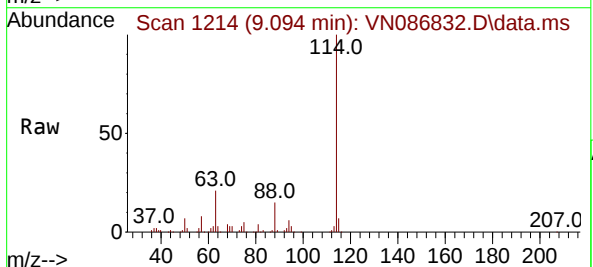
Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#03

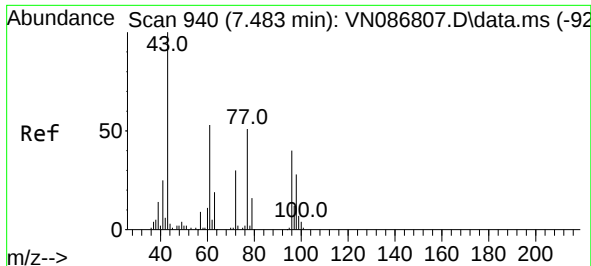
Tgt Ion: 65 Resp: 65510
Ion Ratio Lower Upper
65 100
67 53.4 44.6 67.0



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. -0.006 min
Lab File: VN086832.D
Acq: 30 May 2025 14:13

Tgt Ion: 114 Resp: 180698
Ion Ratio Lower Upper
114 100
63 20.1 15.8 23.8
88 15.7 12.9 19.3

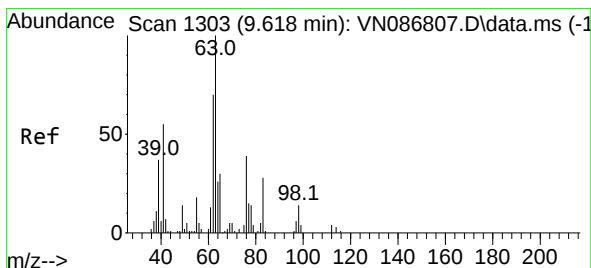
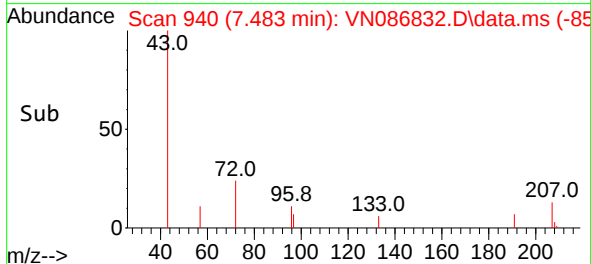
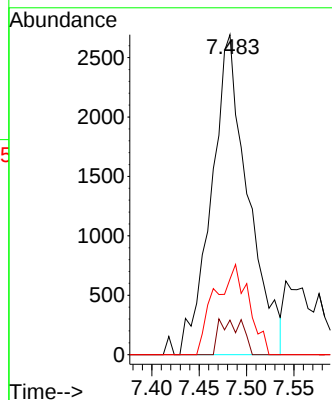
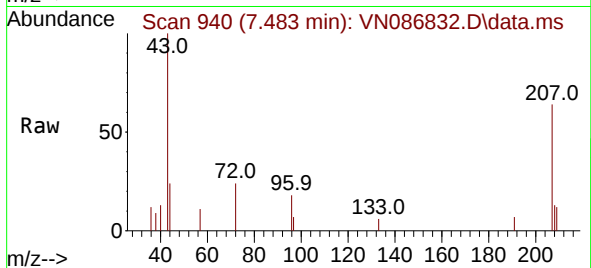




#30
2-Butanone
Concen: 6.195 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN086832.D
Acq: 30 May 2025 14:13

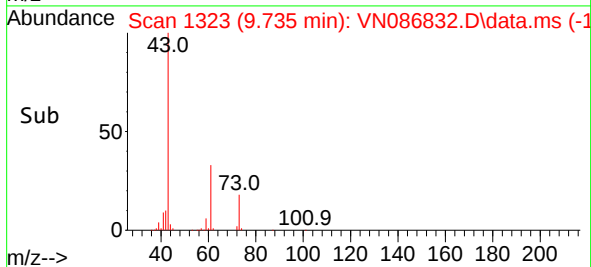
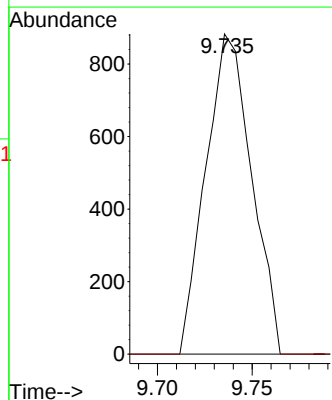
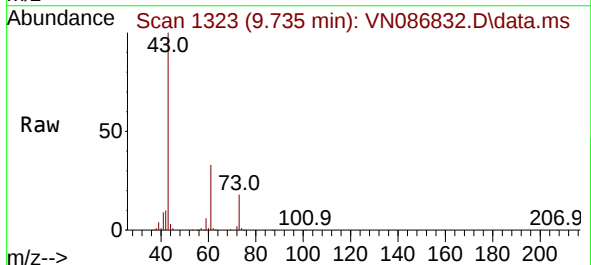
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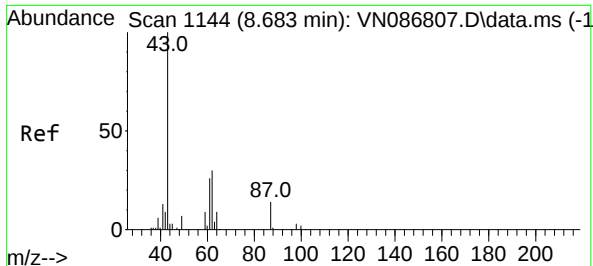
Tgt Ion: 43 Resp: 7212
Ion Ratio Lower Upper
43 100
57 0.0 6.8 10.2#
72 18.1 23.4 35.0#



#39
1,2-Dichloropropane
Concen: 0.715 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.118 min
Lab File: VN086832.D
Acq: 30 May 2025 14:13

Tgt Ion: 63 Resp: 1488
Ion Ratio Lower Upper
63 100
65 0.0 24.2 36.4#

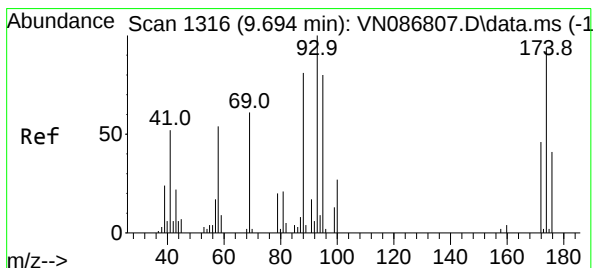
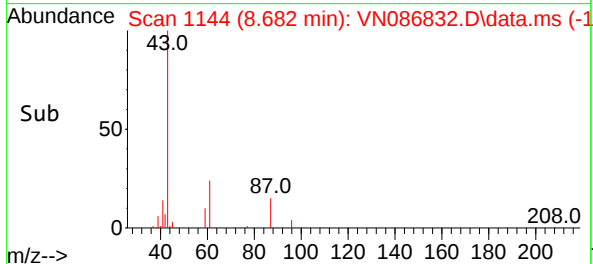
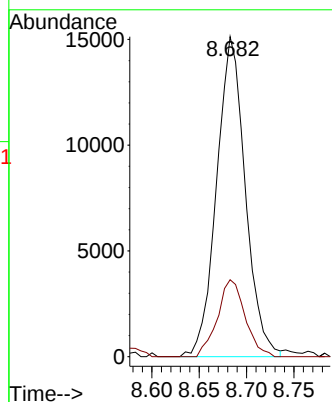
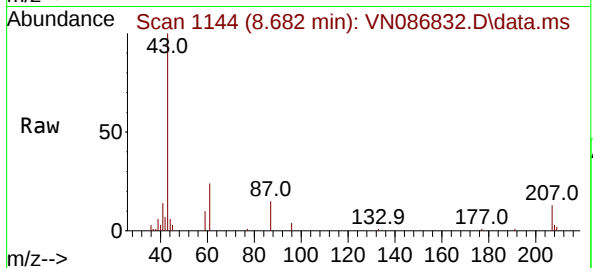




#44
Isopropyl Acetate
Concen: 7.806 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086832.D
Acq: 30 May 2025 14:13

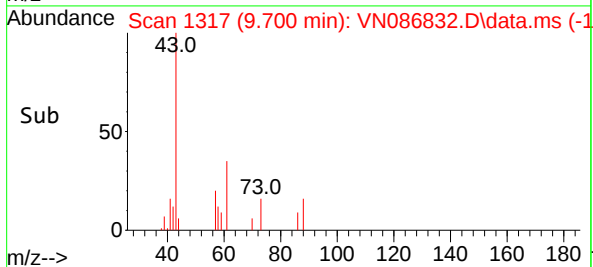
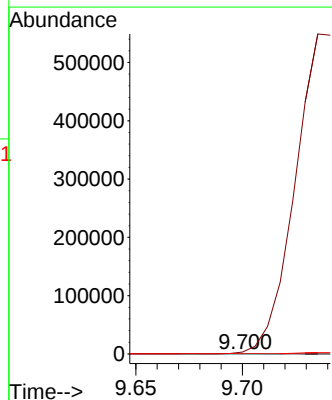
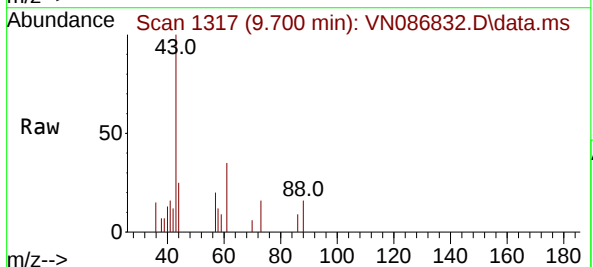
Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#03

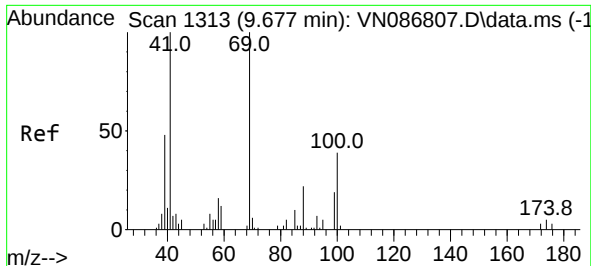
Tgt Ion: 43 Resp: 31898
Ion Ratio Lower Upper
43 100
61 23.1 23.8 35.6#



#45
1,4-Dioxane
Concen: 25.910 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. 0.006 min
Lab File: VN086832.D
Acq: 30 May 2025 14:13

Tgt Ion: 88 Resp: 941
Ion Ratio Lower Upper
88 100
43 0.0 23.0 34.6#
58 64.3 57.6 86.4

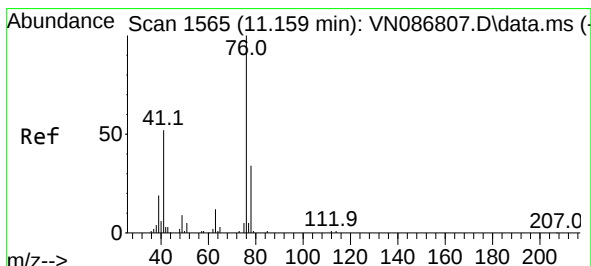
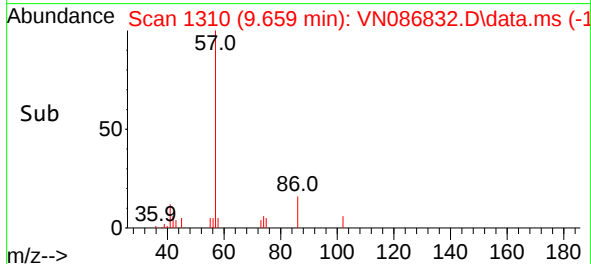
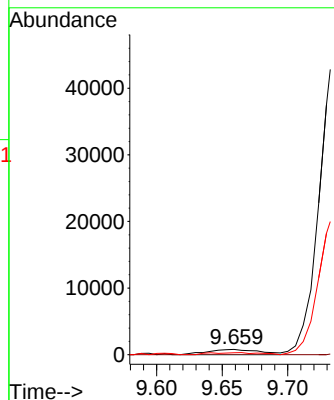
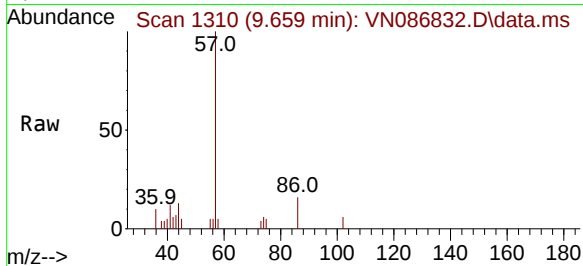




#46
Methyl methacrylate
Concen: 1.178 ug/l
RT: 9.659 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN086832.D
Acq: 30 May 2025 14:13

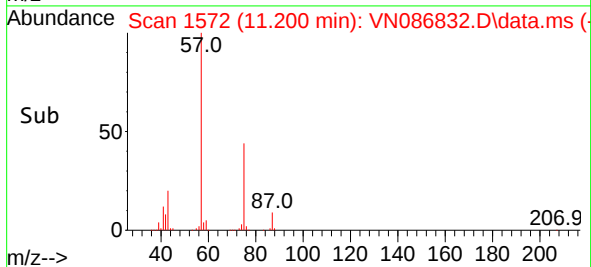
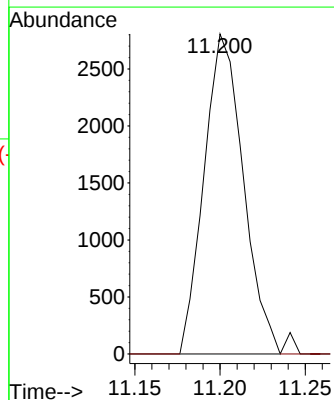
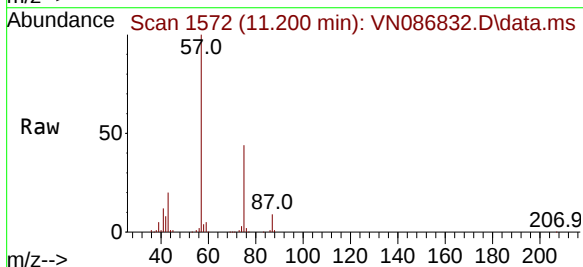
Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#03

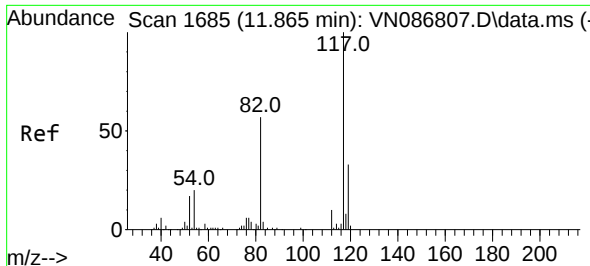
Tgt Ion: 41 Resp: 2220
Ion Ratio Lower Upper
41 100
69 0.0 48.0 144.2#
39 34.8 23.8 71.2



#52
1,3-Dichloropropane
Concen: 1.322 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN086832.D
Acq: 30 May 2025 14:13

Tgt Ion: 76 Resp: 4497
Ion Ratio Lower Upper
76 100
78 0.0 0.0 64.6

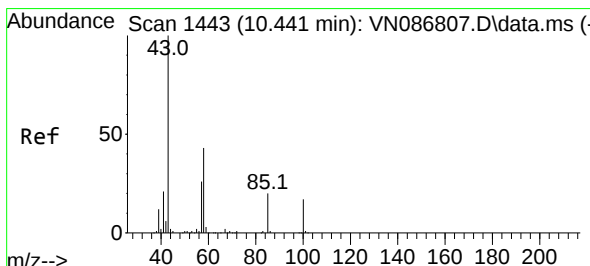
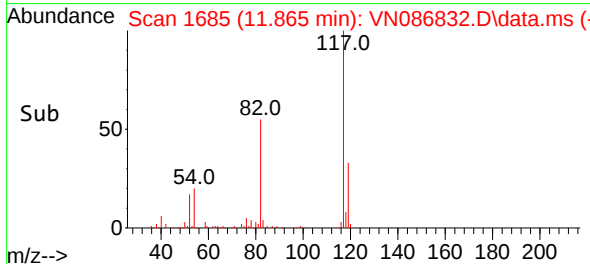
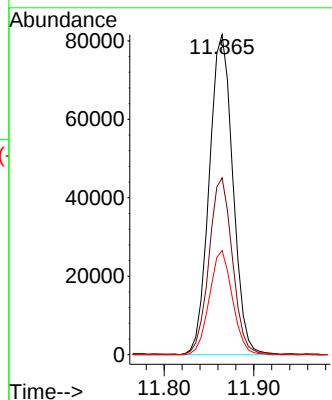
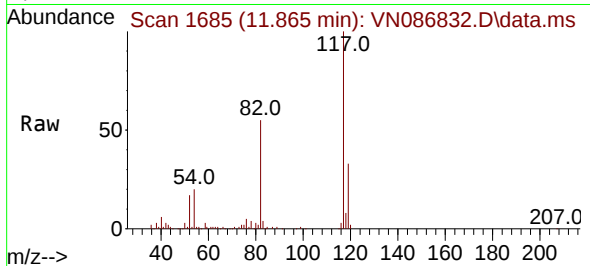




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1186
Delta R.T. -0.000 min
Lab File: VN086832.D
Acq: 30 May 2025 14:13

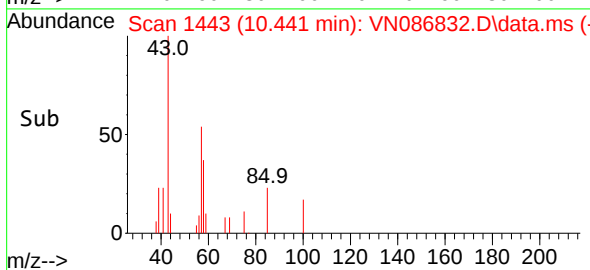
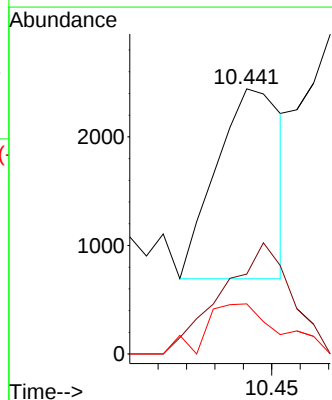
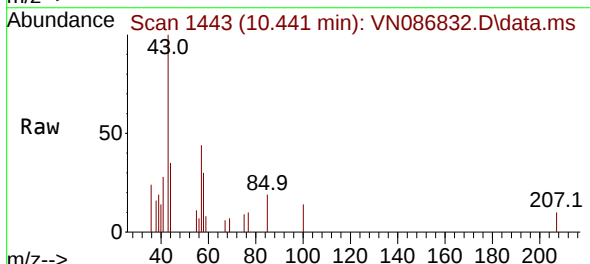
Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#03

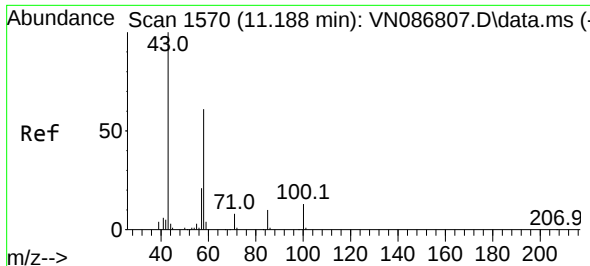
Tgt Ion:117 Resp: 149313
Ion Ratio Lower Upper
117 100
82 55.0 44.7 67.1
119 31.7 25.6 38.4



#58
4-Methyl-2-Pentanone
Concen: 1.265 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086832.D
Acq: 30 May 2025 14:13

Tgt Ion: 43 Resp: 2772
Ion Ratio Lower Upper
43 100
58 62.4 34.5 51.7#
85 23.0 15.8 23.8

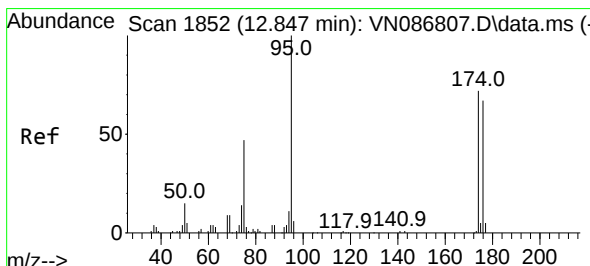
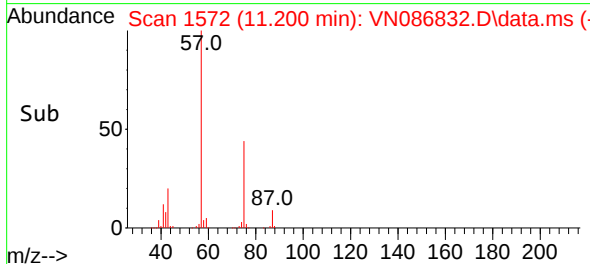
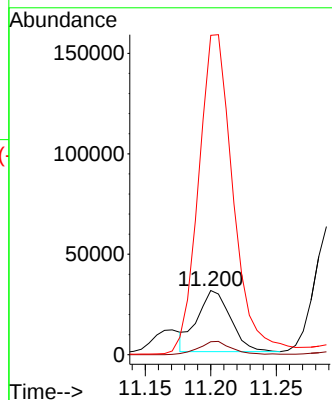
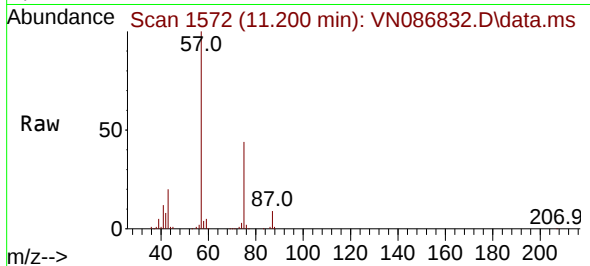




#59
2-Hexanone
Concen: 33.953 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.012 min
Lab File: VN086832.D
Acq: 30 May 2025 14:13

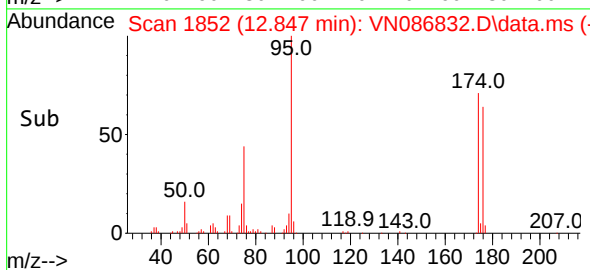
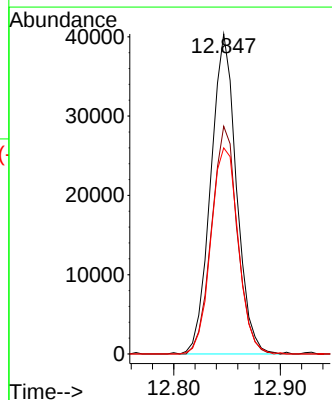
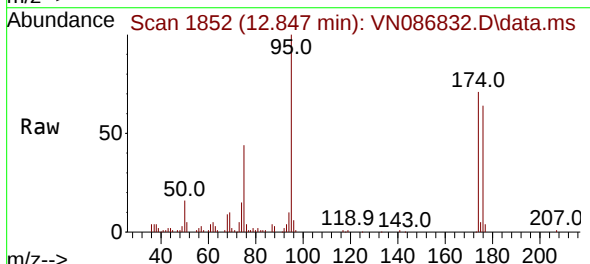
Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#03

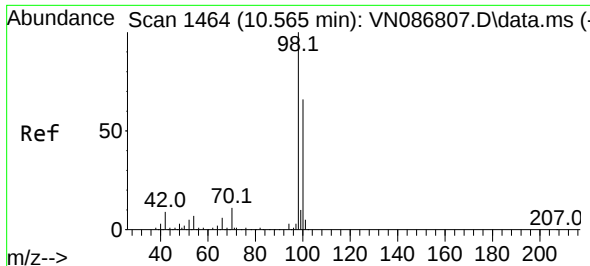
Tgt Ion: 43 Resp: 53285
Ion Ratio Lower Upper
43 100
58 21.5 49.1 73.7#
57 552.0 16.6 25.0#



#60
4-Bromofluorobenzene
Concen: 28.773 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086832.D
Acq: 30 May 2025 14:13

Tgt Ion: 95 Resp: 67452
Ion Ratio Lower Upper
95 100
174 71.6 56.2 84.4
176 68.6 53.4 80.0

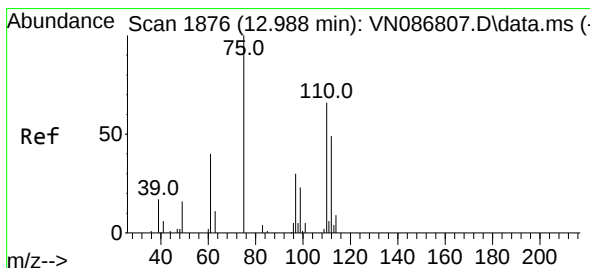
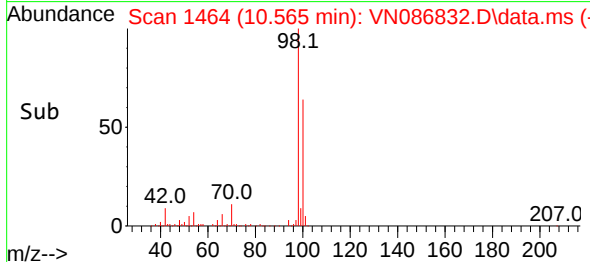
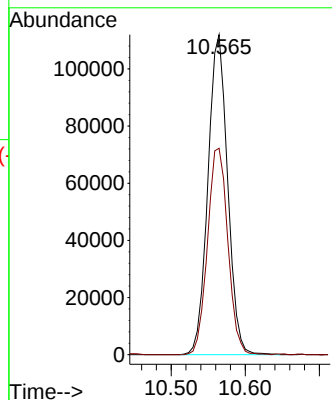
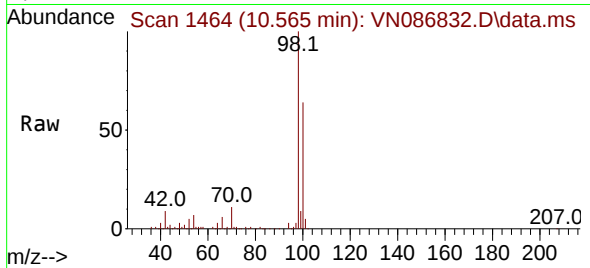




#63
Toluene-d8
Concen: 30.143 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086832.D
Acq: 30 May 2025 14:13

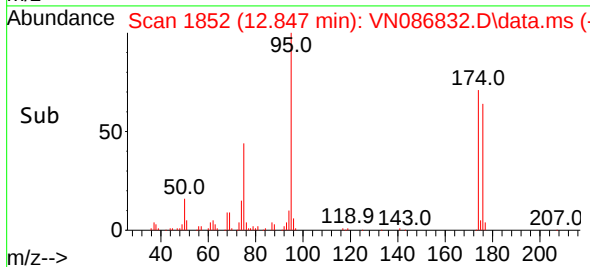
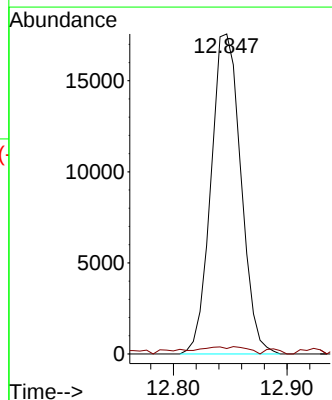
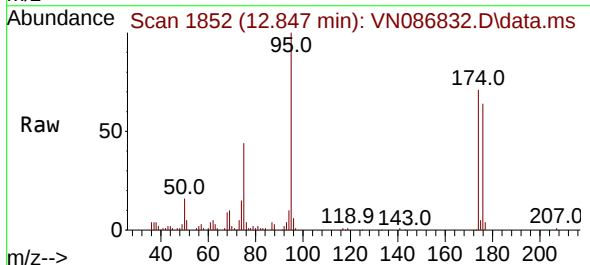
Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#03

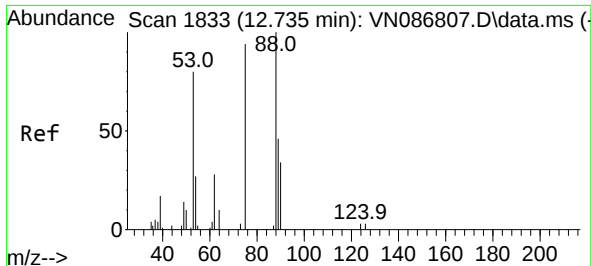
Tgt Ion: 98 Resp: 206580
Ion Ratio Lower Upper
98 100
100 66.6 52.7 79.1



#72
1,2,3-Trichloropropane
Concen: 14.031 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086832.D
Acq: 30 May 2025 14:13

Tgt Ion: 75 Resp: 32166
Ion Ratio Lower Upper
75 100
77 1.4 0.0 390.6

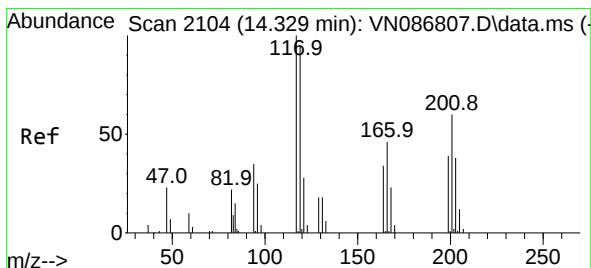
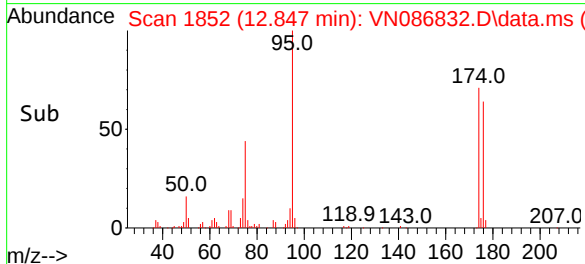
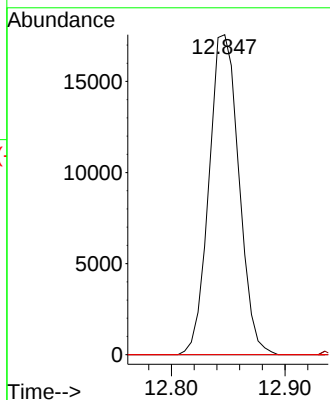
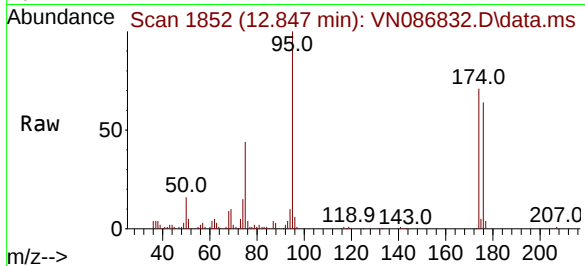




#77
t-1,4-Dichloro-2-butene
Concen: 34.285 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN086832.D
Acq: 30 May 2025 14:13

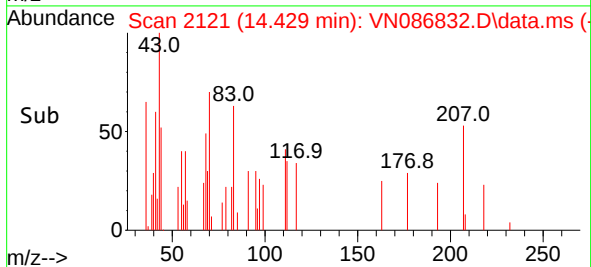
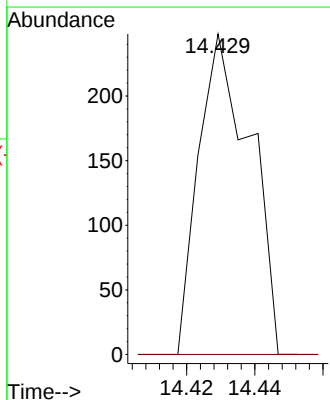
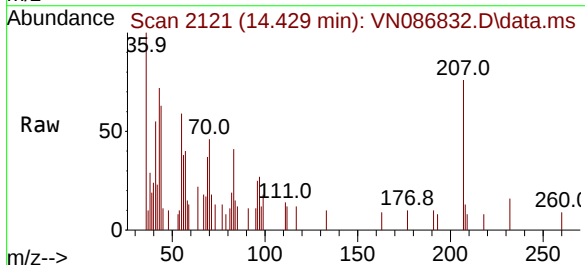
Instrument :
MSVOA_N
ClientSampleId :
PB168191ZHE#03

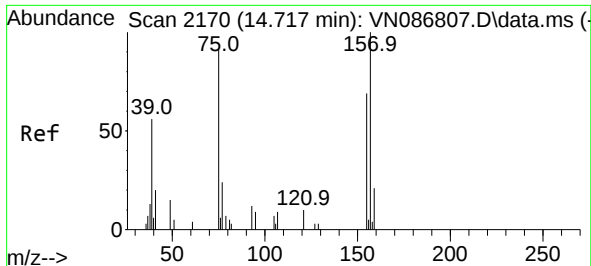
Tgt Ion: 75 Resp: 32166
Ion Ratio Lower Upper
75 100
53 0.0 43.0 128.8#
89 0.0 25.4 76.2#



#86
Hexachloroethane
Concen: 0.226 ug/l
RT: 14.429 min Scan# 2121
Delta R.T. 0.100 min
Lab File: VN086832.D
Acq: 30 May 2025 14:13

Tgt Ion: 117 Resp: 261
Ion Ratio Lower Upper
117 100
201 0.0 31.4 94.3#





#88

1,2-Dibromo-3-Chloropropane

Concen: 0.313 ug/l

RT: 14.647 min Scan# 2170

Delta R.T. -0.071 min

Lab File: VN086832.D

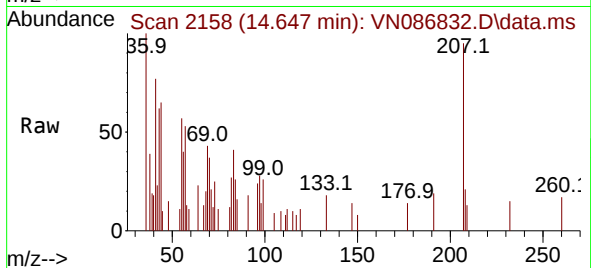
Acq: 30 May 2025 14:13

Instrument :

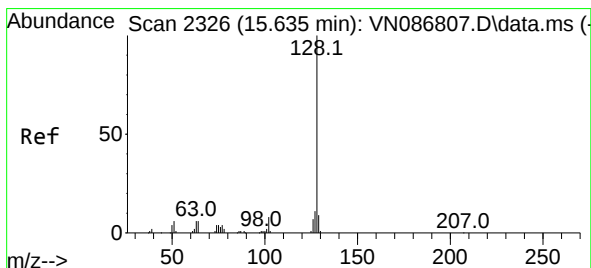
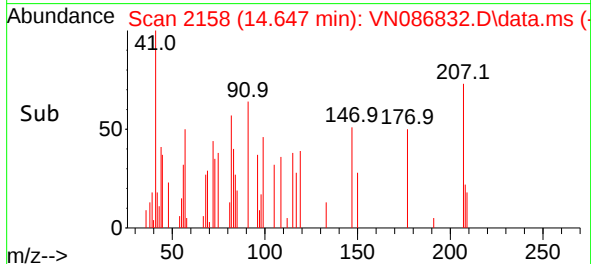
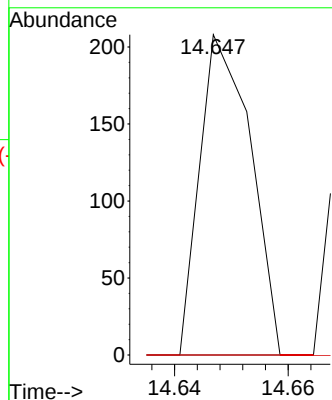
MSVOA_N

ClientSampleId :

PB168191ZHE#03



Tgt Ion: 75	Resp: 129
Ion Ratio	Lower Upper
75	100
155	0.0 62.9 94.3#
157	0.0 84.0 126.0#



#91

Naphthalene

Concen: 0.305 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. 0.006 min

Lab File: VN086832.D

Acq: 30 May 2025 14:13

Tgt Ion: 128	Resp: 1614
Ion Ratio	Lower Upper
128	100
127	0.0 9.8 14.6#
129	13.1 8.6 13.0#

