

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051925\
 Data File : VN086702.D
 Acq On : 19 May 2025 20:18
 Operator : JC\MD
 Sample : PB168034ZHE#19
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168034ZHE#19

Quant Time: May 20 03:24:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:46:13 2025
 Response via : Initial Calibration

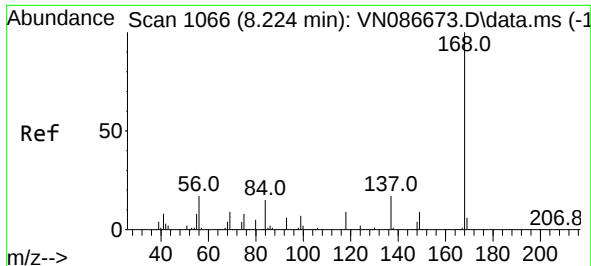
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	190538	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	373834	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	368375	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	147211	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	136481	51.837	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.680%			
35) Dibromofluoromethane	8.165	113	114218	51.303	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.600%			
50) Toluene-d8	10.565	98	490906	53.209	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.420%			
62) 4-Bromofluorobenzene	12.847	95	171288	52.580	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.160%			
Target Compounds						Qvalue
3) Chloromethane	2.359	50	830	0.267	ug/l #	42
16) Acetone	4.430	43	25015	25.399	ug/l	99
18) Methyl Acetate	5.042	43	4324	1.569	ug/l #	83
20) Methylene Chloride	5.283	84	6232	2.398	ug/l	88
25) 2-Butanone	7.494	43	2435	1.600	ug/l #	89
29) Tetrahydrofuran	7.841	42	344	0.346	ug/l #	30
31) Cyclohexane	8.224	56	4033	1.021	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	15475	4.712	ug/l #	49
38) Carbon Tetrachloride	8.224	117	19404	5.997	ug/l #	16
43) Isopropyl Acetate	8.682	43	54515	8.198	ug/l #	70
45) 1,2-Dichloropropane	9.741	63	1110	0.436	ug/l #	42
48) Methyl methacrylate	9.735	41	69894	27.123	ug/l #	37
51) 4-Methyl-2-Pentanone	10.471	43	5654	1.686	ug/l #	33
54) cis-1,3-Dichloropropene	10.353	75	34934	8.543	ug/l #	59
57) 1,3-Dichloropropane	11.200	76	3262	0.762	ug/l #	42
59) 2-Hexanone	11.200	43	58127	23.735	ug/l #	40
71) Bromoform	12.847	173	878	0.473	ug/l #	1
74) N-amyl acetate	12.453	43	3216	0.677	ug/l #	39
76) 1,2,3-Trichloropropane	12.847	75	85745	25.755	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	85745	64.996	ug/l #	15

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

Quant Time: May 20 03:24:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

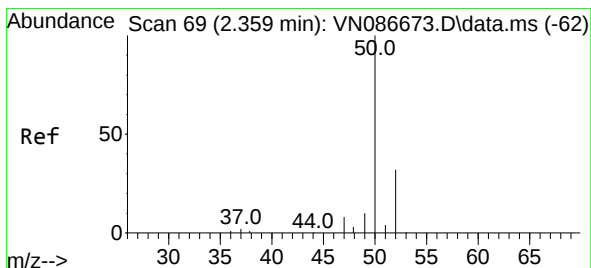
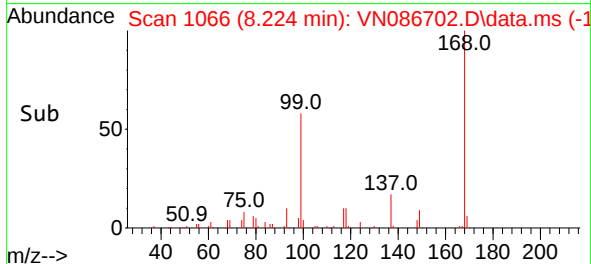
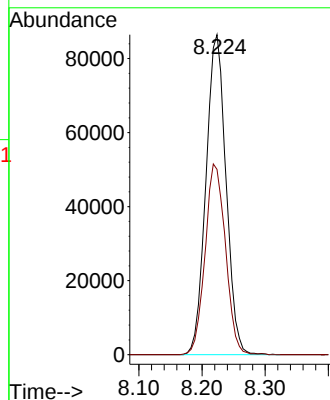
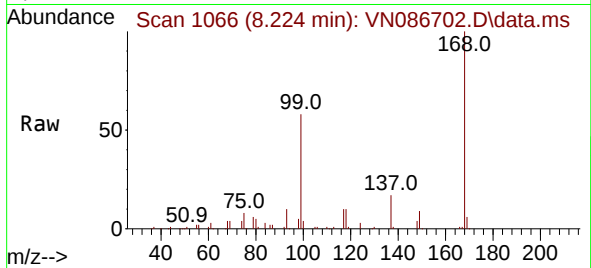




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086702.D
Acq: 19 May 2025 20:18

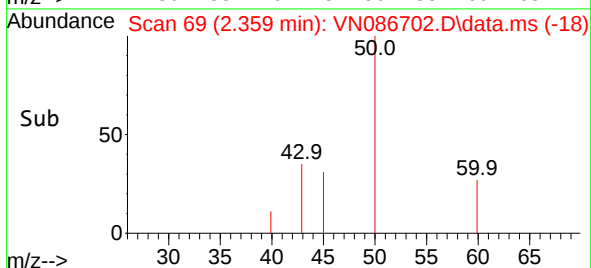
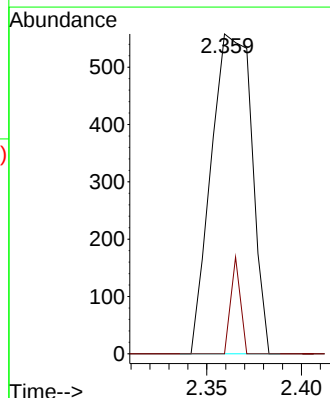
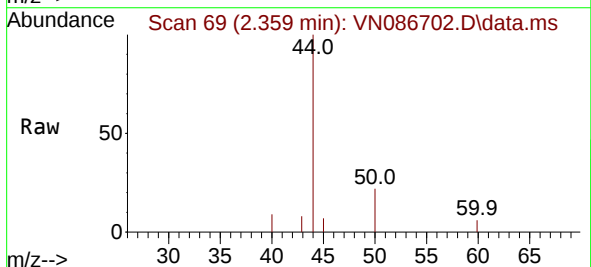
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#19

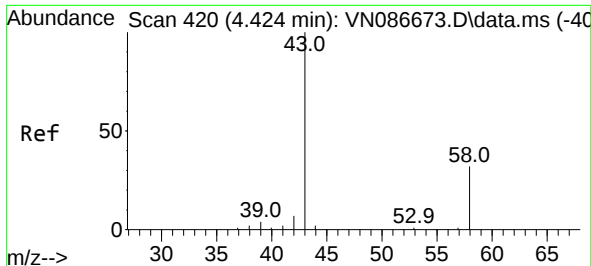
Tgt Ion:168 Resp: 190538
Ion Ratio Lower Upper
168 100
99 57.9 47.0 70.4



#3
Chloromethane
Concen: 0.267 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086702.D
Acq: 19 May 2025 20:18

Tgt Ion: 50 Resp: 830
Ion Ratio Lower Upper
50 100
52 0.0 25.9 38.9#

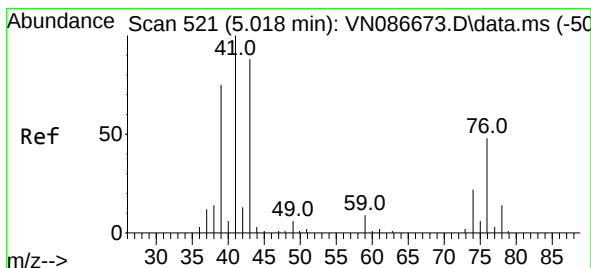
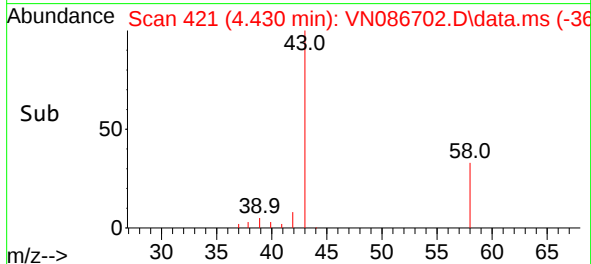
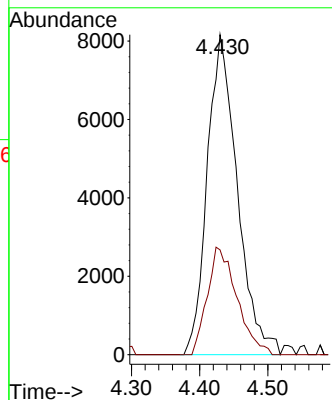
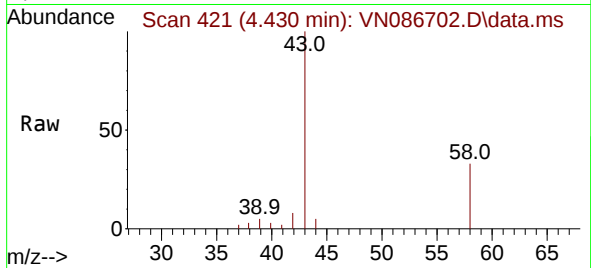




#16
Acetone
Concen: 25.399 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086702.D
Acq: 19 May 2025 20:18

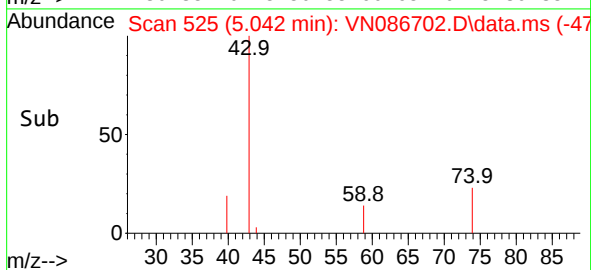
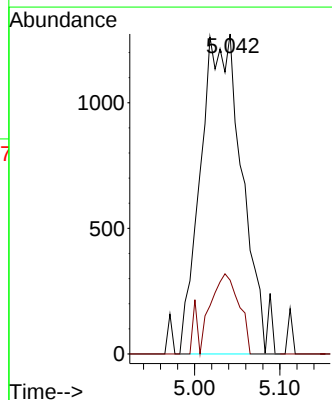
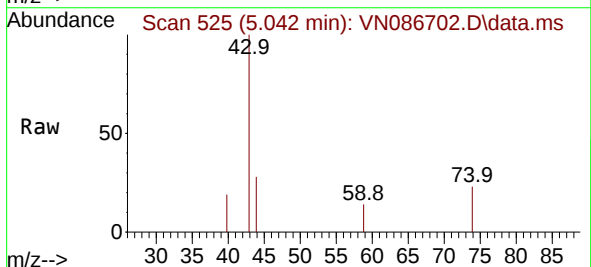
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#19

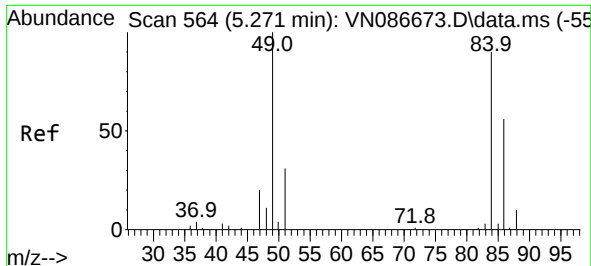
Tgt Ion: 43 Resp: 25015
Ion Ratio Lower Upper
43 100
58 32.8 25.8 38.6



#18
Methyl Acetate
Concen: 1.569 ug/l
RT: 5.042 min Scan# 525
Delta R.T. 0.023 min
Lab File: VN086702.D
Acq: 19 May 2025 20:18

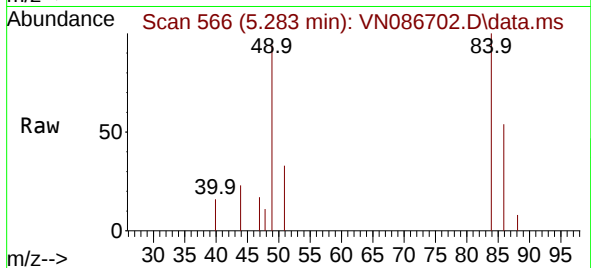
Tgt Ion: 43 Resp: 4324
Ion Ratio Lower Upper
43 100
74 16.9 20.5 30.7#



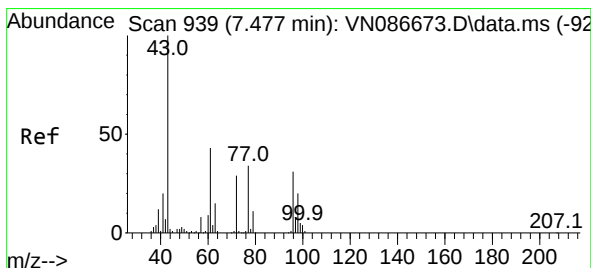
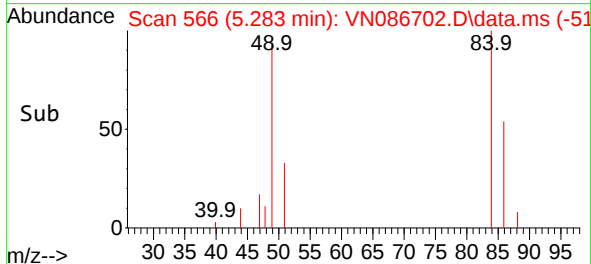
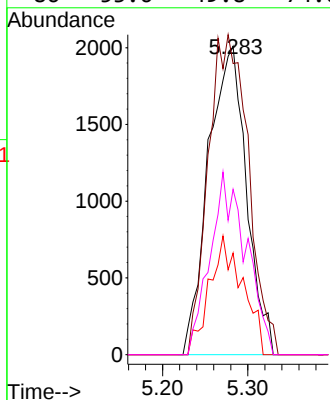


#20
Methylene Chloride
Concen: 2.398 ug/l
RT: 5.283 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN086702.D
Acq: 19 May 2025 20:18

Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#19

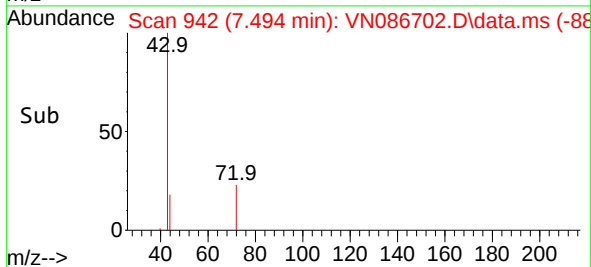
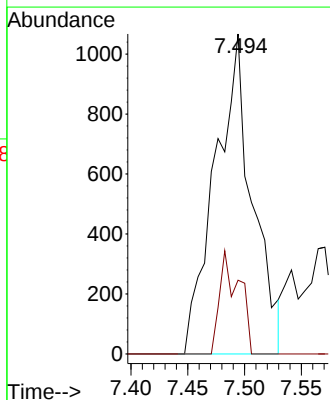
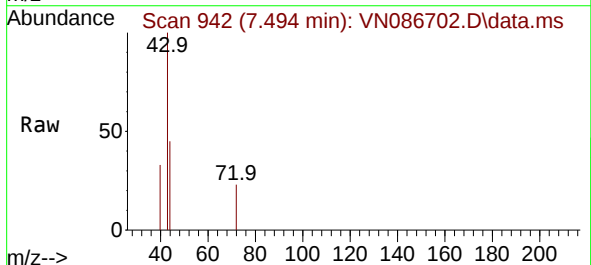


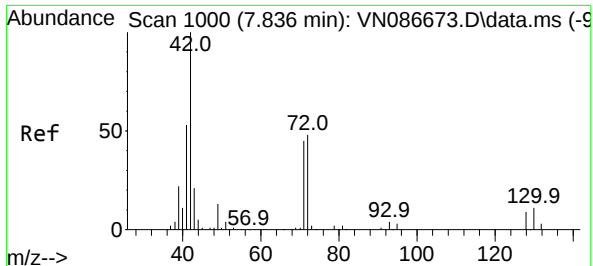
Tgt Ion: 84	Resp: 6232
Ion Ratio	Lower Upper
84 100	
49 94.4	88.8 133.2
51 32.9	27.8 41.6
86 53.6	49.8 74.6



#25
2-Butanone
Concen: 1.600 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.018 min
Lab File: VN086702.D
Acq: 19 May 2025 20:18

Tgt Ion: 43	Resp: 2435		
Ion Ratio	Lower	Upper	
43 100			
72 23.1	23.1	34.7#	





#29

Tetrahydrofuran

Concen: 0.346 ug/l

RT: 7.841 min Scan# 1066

Delta R.T. 0.006 min

Lab File: VN086702.D

Acq: 19 May 2025 20:18

Instrument :

MSVOA_N

ClientSampleId :

PB168034ZHE#19

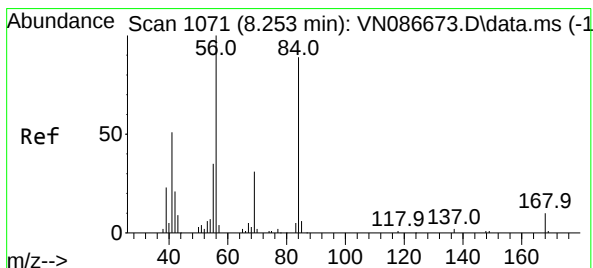
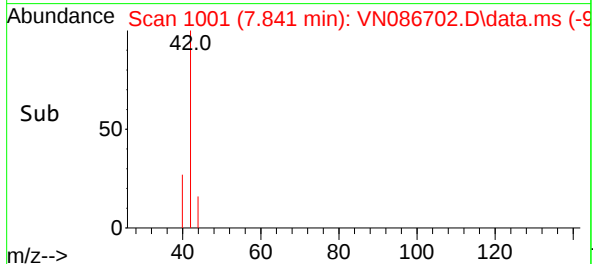
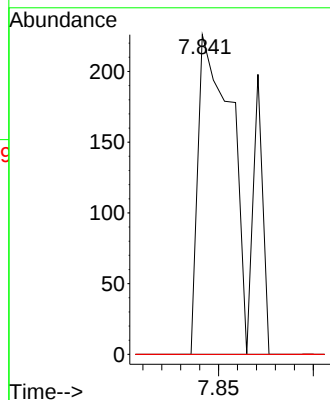
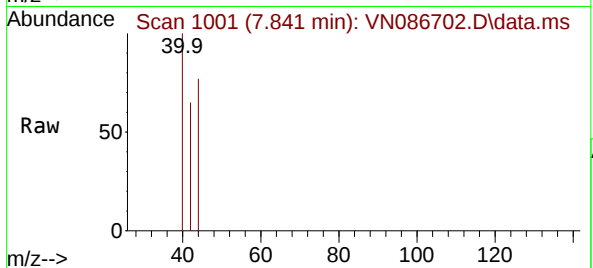
Tgt Ion: 42 Resp: 344

Ion Ratio Lower Upper

42 100

72 0.0 38.7 58.1#

71 0.0 36.2 54.4#



#31

Cyclohexane

Concen: 1.021 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.030 min

Lab File: VN086702.D

Acq: 19 May 2025 20:18

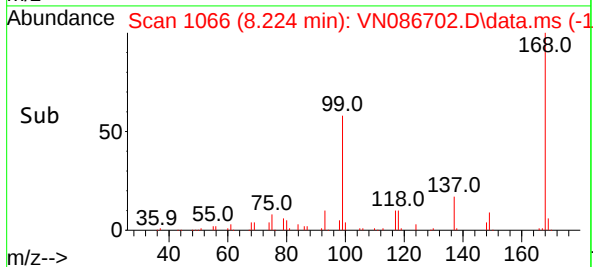
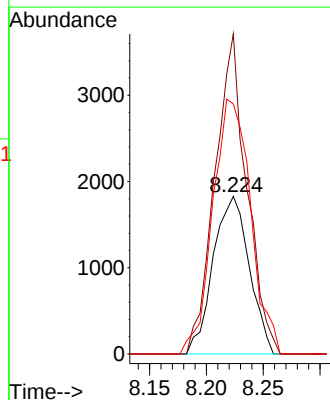
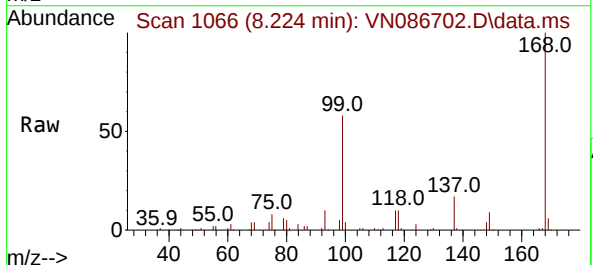
Tgt Ion: 56 Resp: 4033

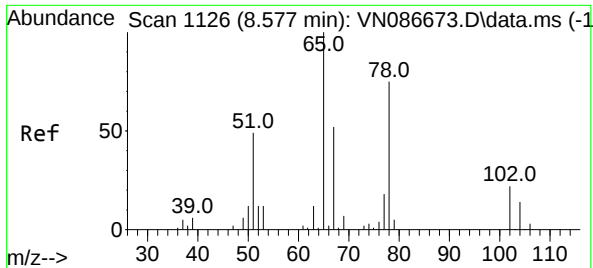
Ion Ratio Lower Upper

56 100

69 203.1 25.0 37.6#

84 158.8 71.0 106.4#





#33

1,2-Dichloroethane-d4

Concen: 51.837 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086702.D

Acq: 19 May 2025 20:18

Instrument :

MSVOA_N

ClientSampleId :

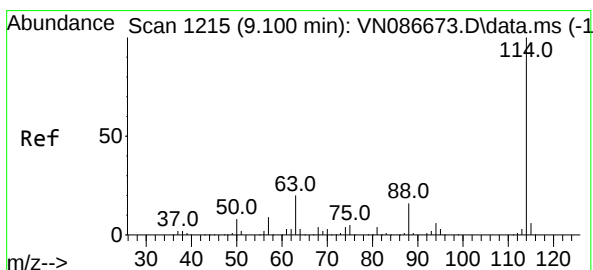
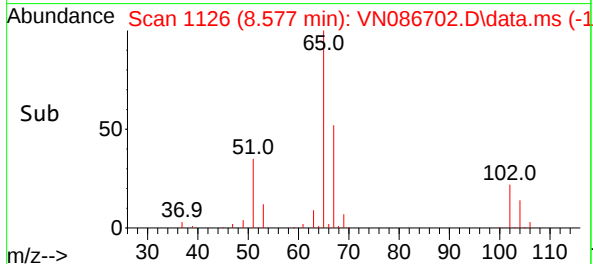
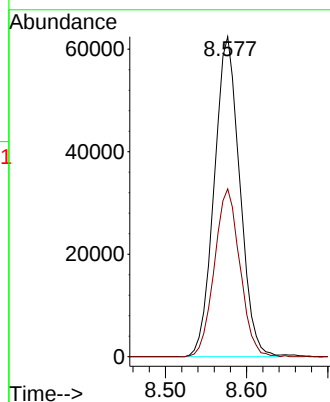
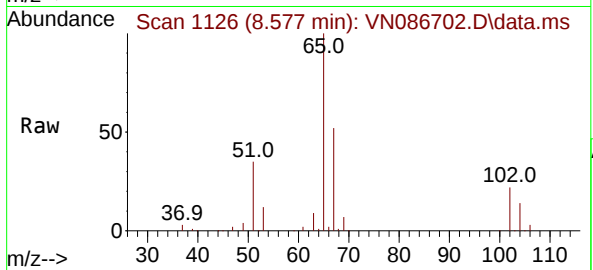
PB168034ZHE#19

Tgt Ion: 65 Resp: 136481

Ion Ratio Lower Upper

65 100

67 52.4 0.0 106.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086702.D

Acq: 19 May 2025 20:18

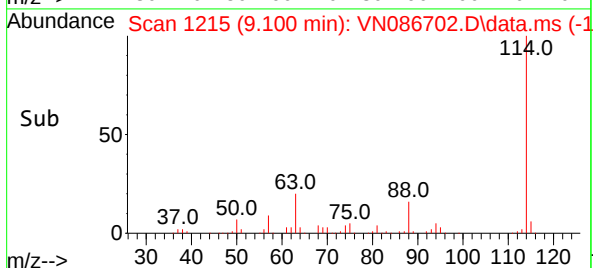
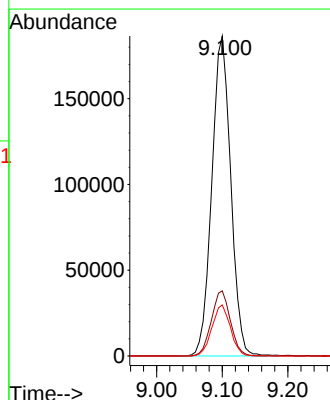
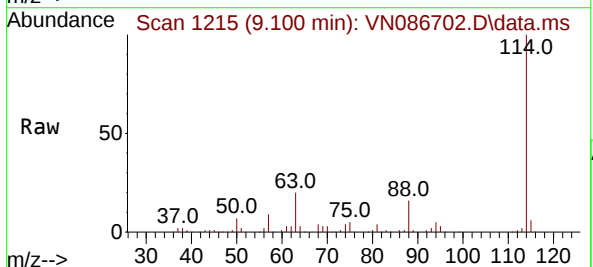
Tgt Ion: 114 Resp: 373834

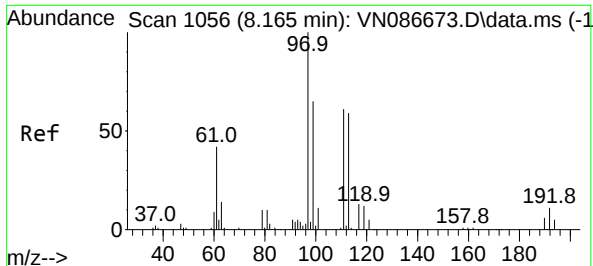
Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.2

88 16.0 0.0 31.2





#35

Dibromofluoromethane

Concen: 51.303 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086702.D

Acq: 19 May 2025 20:18

Instrument :

MSVOA_N

ClientSampleId :

PB168034ZHE#19

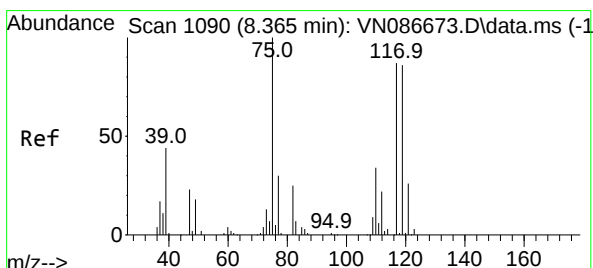
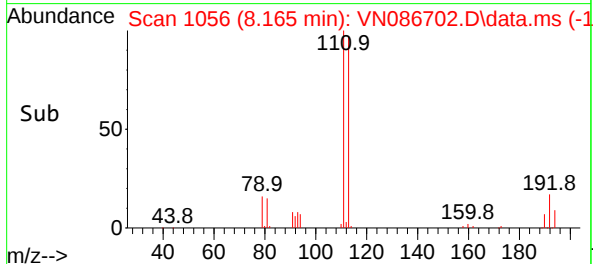
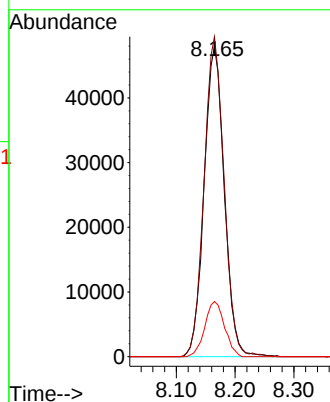
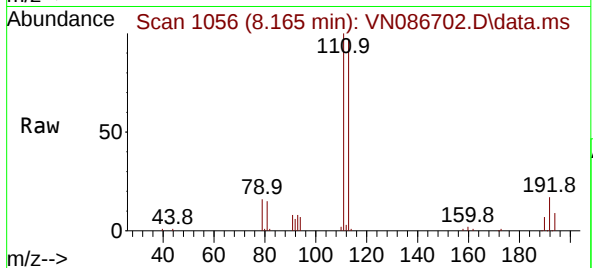
Tgt Ion:113 Resp: 114218

Ion Ratio Lower Upper

113 100

111 102.5 82.2 123.2

192 17.4 13.8 20.8



#36

1,1-Dichloropropene

Concen: 4.712 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086702.D

Acq: 19 May 2025 20:18

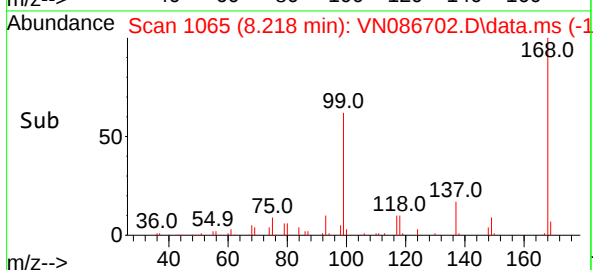
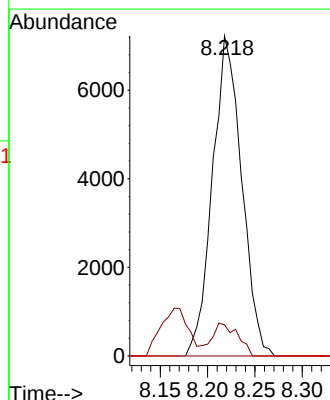
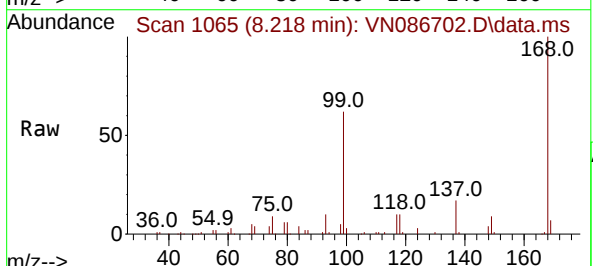
Tgt Ion: 75 Resp: 15475

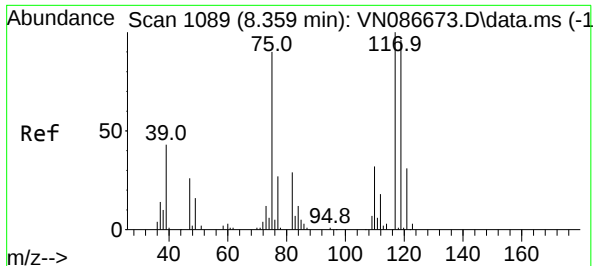
Ion Ratio Lower Upper

75 100

110 8.9 17.5 52.5#

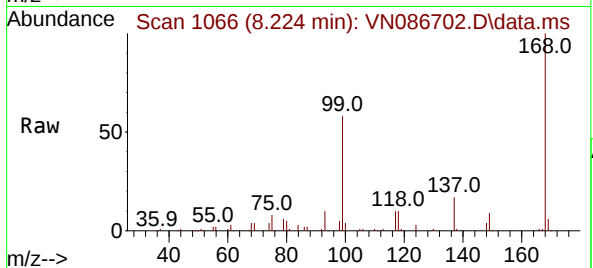
77 0.0 25.1 37.7#



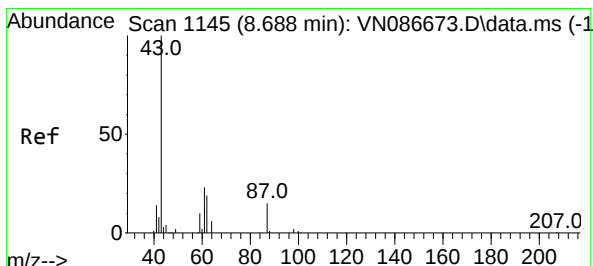
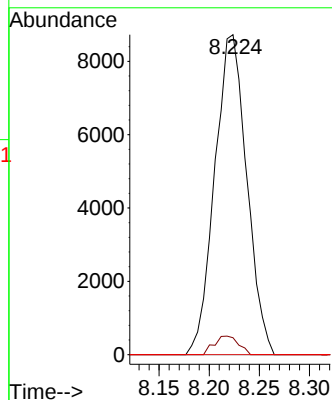
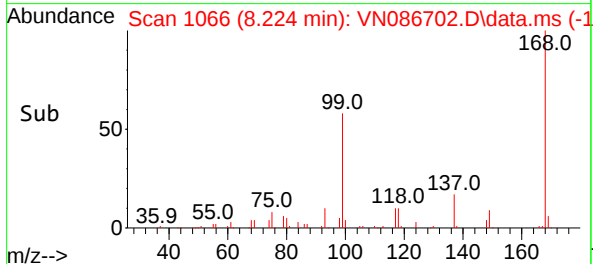


#38
Carbon Tetrachloride
Concen: 5.997 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN086702.D
Acq: 19 May 2025 20:18

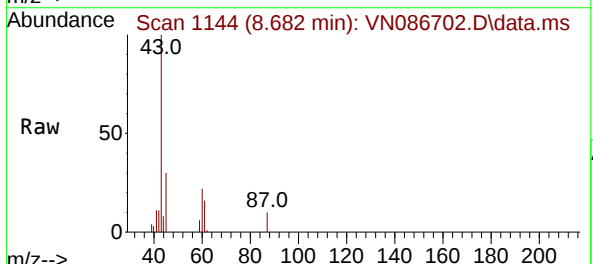
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#19



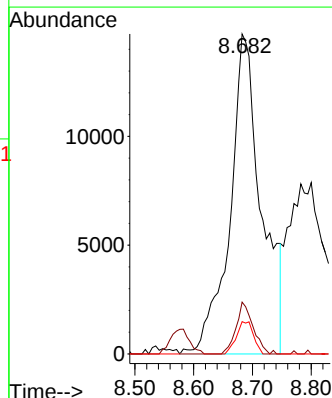
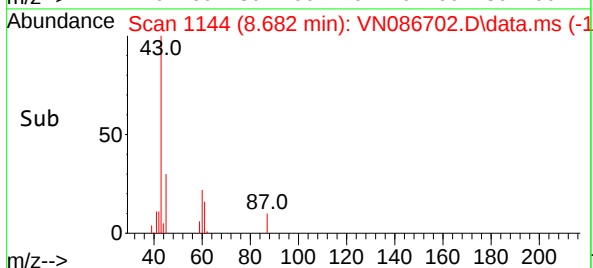
Tgt Ion:117 Resp: 19404
Ion Ratio Lower Upper
117 100
119 5.3 77.0 115.6#
121 0.0 25.0 37.6#

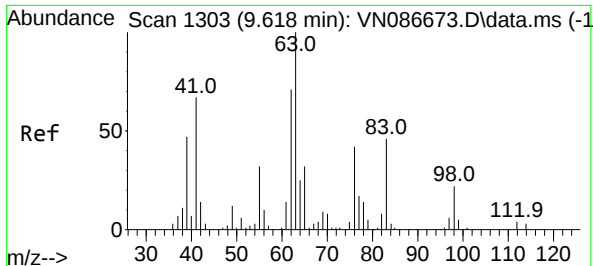


#43
Isopropyl Acetate
Concen: 8.198 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.006 min
Lab File: VN086702.D
Acq: 19 May 2025 20:18



Tgt Ion: 43 Resp: 54515
Ion Ratio Lower Upper
43 100
61 8.8 21.4 32.2#
87 5.5 11.1 16.7#





#45

1,2-Dichloropropane

Concen: 0.436 ug/l

RT: 9.741 min Scan# 1110

Delta R.T. 0.123 min

Lab File: VN086702.D

Acq: 19 May 2025 20:18

Instrument :

MSVOA_N

ClientSampleId :

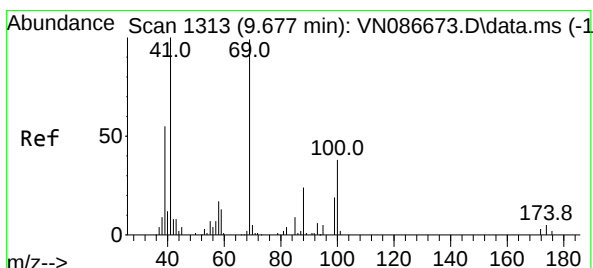
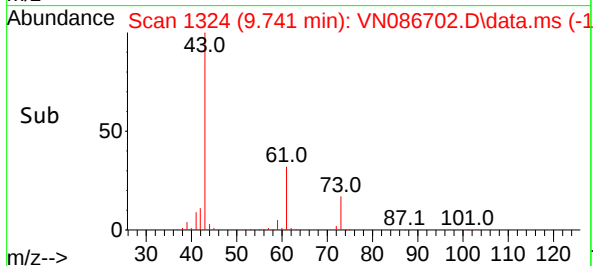
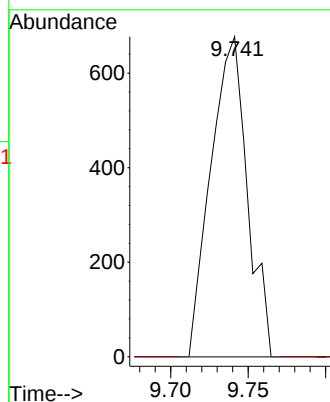
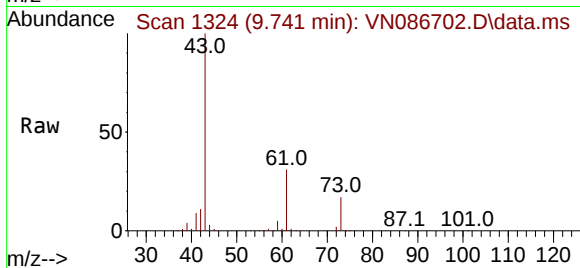
PB168034ZHE#19

Tgt Ion: 63 Resp: 1110

Ion Ratio Lower Upper

63 100

65 0.0 25.8 38.6#



#48

Methyl methacrylate

Concen: 27.123 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.059 min

Lab File: VN086702.D

Acq: 19 May 2025 20:18

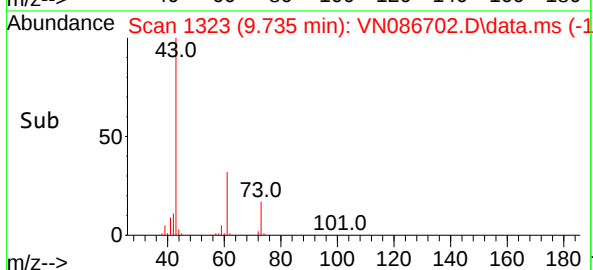
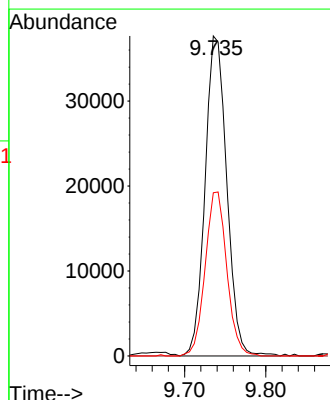
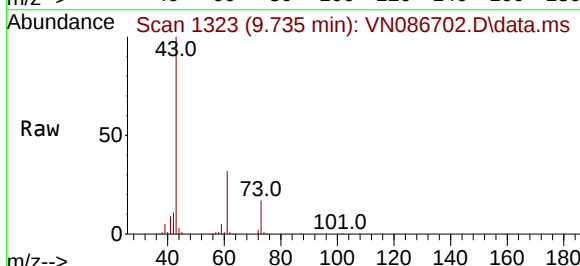
Tgt Ion: 41 Resp: 69894

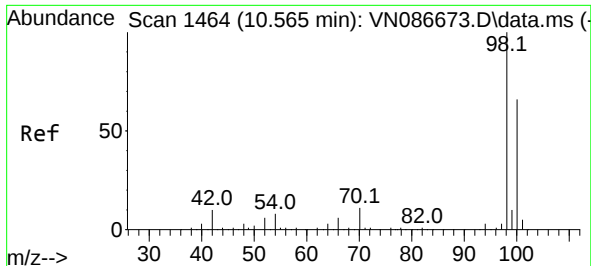
Ion Ratio Lower Upper

41 100

69 0.0 74.1 111.1#

39 51.2 44.1 66.1

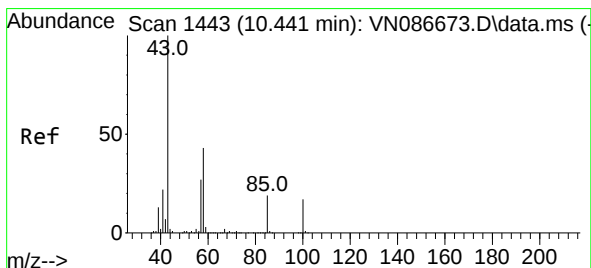
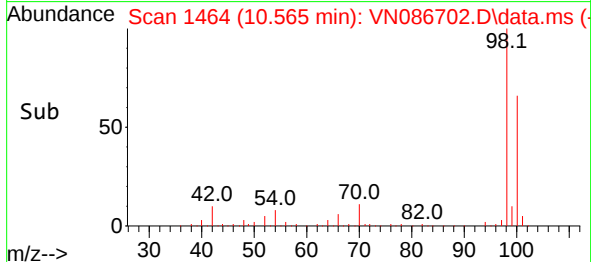
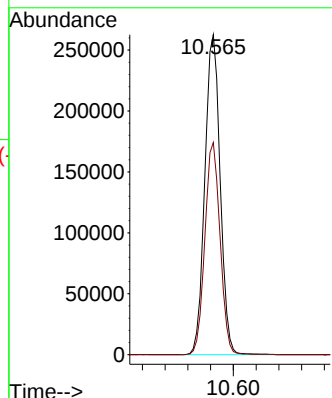
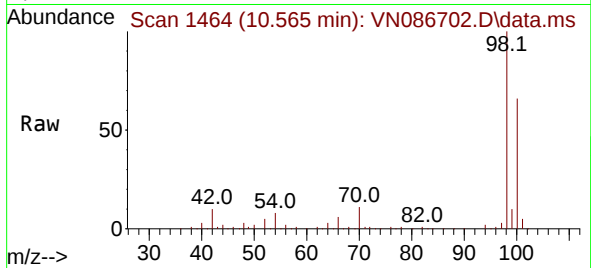




#50
Toluene-d8
Concen: 53.209 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086702.D
Acq: 19 May 2025 20:18

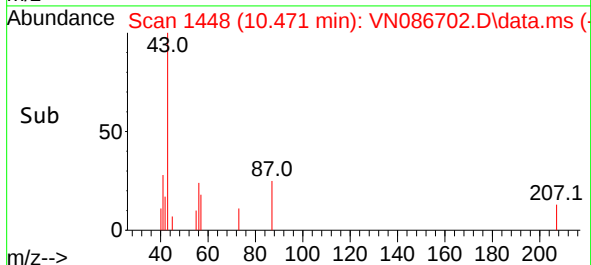
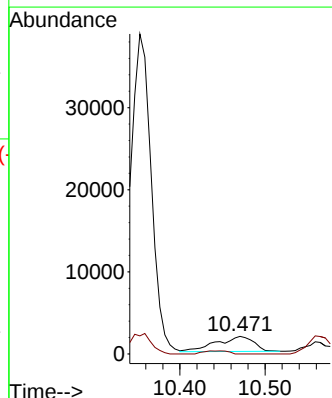
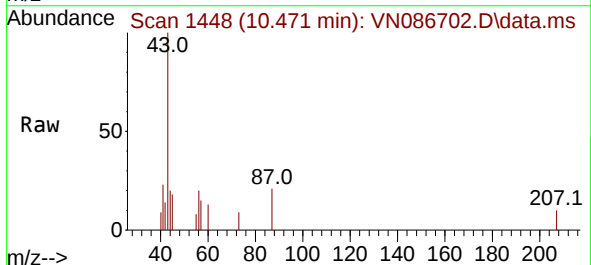
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#19

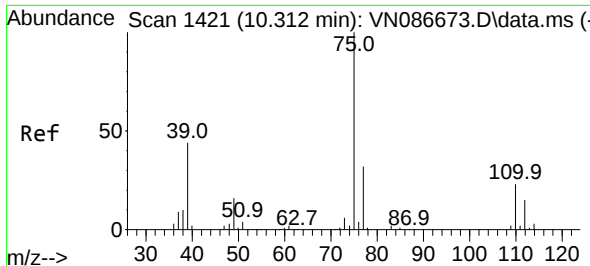
Tgt Ion: 98 Resp: 490906
Ion Ratio Lower Upper
98 100
100 65.7 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 1.686 ug/l
RT: 10.471 min Scan# 1448
Delta R.T. 0.029 min
Lab File: VN086702.D
Acq: 19 May 2025 20:18

Tgt Ion: 43 Resp: 5654
Ion Ratio Lower Upper
43 100
58 0.0 33.9 50.9#

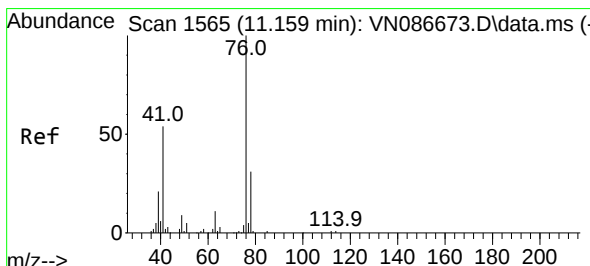
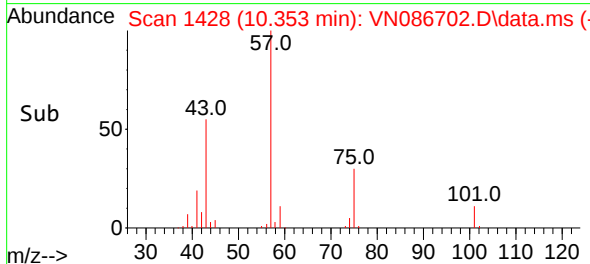
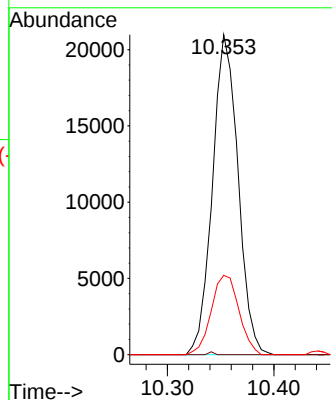
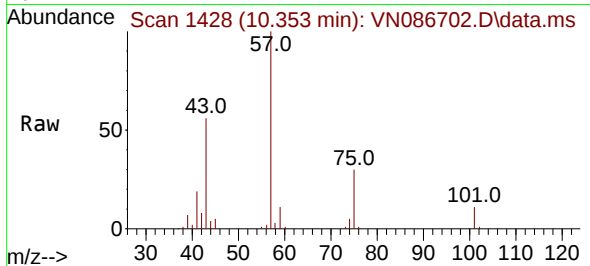




#54
 cis-1,3-Dichloropropene
 Concen: 8.543 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.041 min
 Lab File: VN086702.D
 Acq: 19 May 2025 20:18

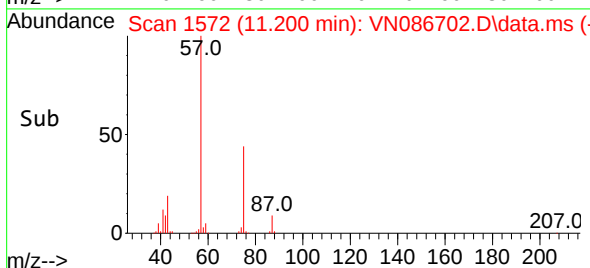
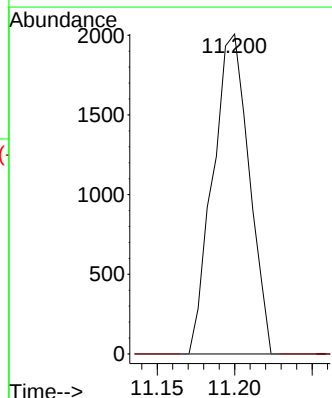
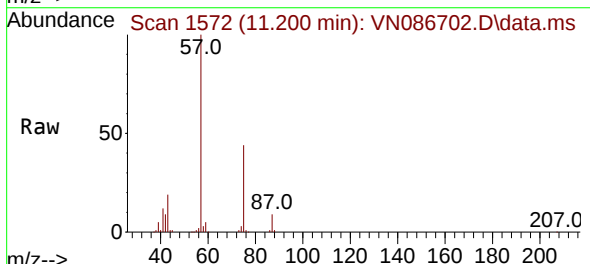
Instrument :
 MSVOA_N
 ClientSampleId :
 PB168034ZHE#19

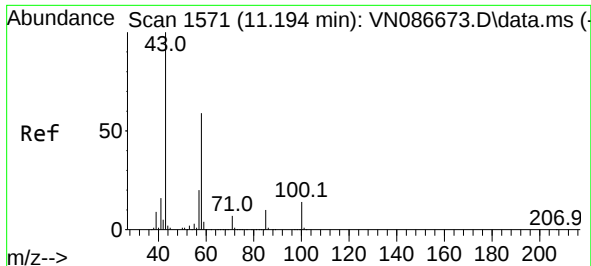
Tgt Ion: 75 Resp: 34934
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.3 37.9#
 39 24.8 35.2 52.8#



#57
 1,3-Dichloropropane
 Concen: 0.762 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.041 min
 Lab File: VN086702.D
 Acq: 19 May 2025 20:18

Tgt Ion: 76 Resp: 3262
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#

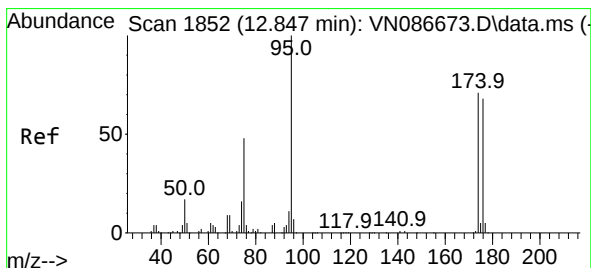
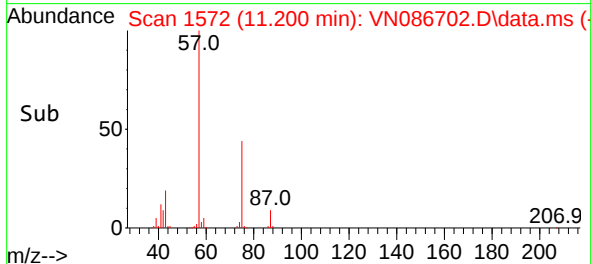
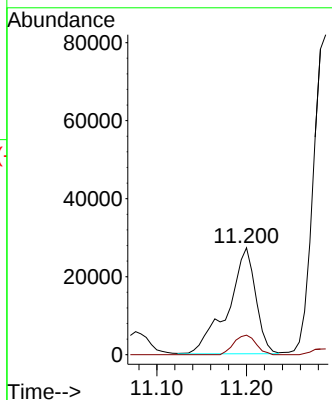
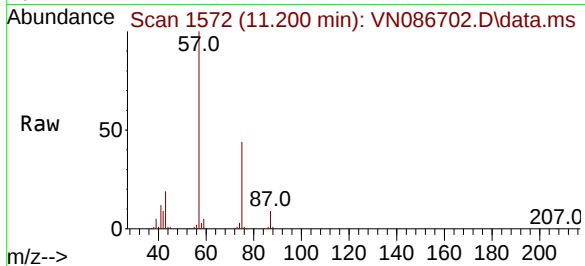




#59
2-Hexanone
Concen: 23.735 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086702.D
Acq: 19 May 2025 20:18

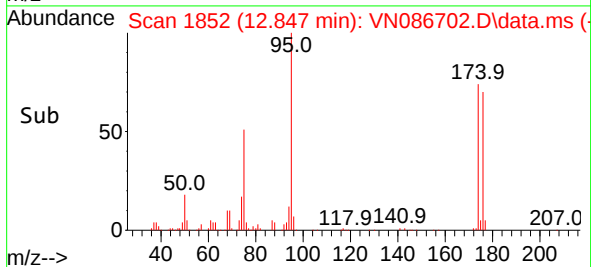
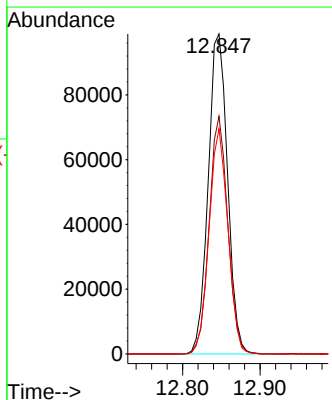
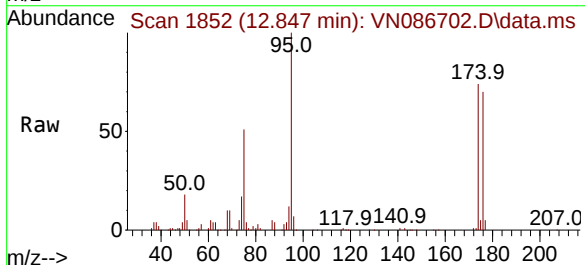
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#19

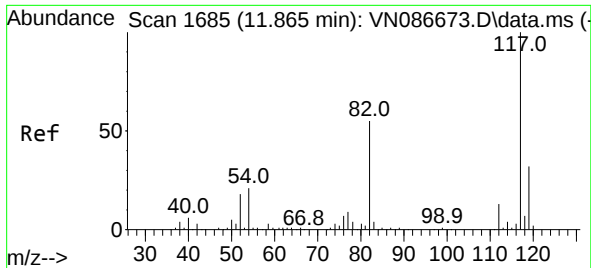
Tgt Ion: 43 Resp: 58127
Ion Ratio Lower Upper
43 100
58 14.7 29.8 89.5#



#62
4-Bromofluorobenzene
Concen: 52.580 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086702.D
Acq: 19 May 2025 20:18

Tgt Ion: 95 Resp: 171288
Ion Ratio Lower Upper
95 100
174 71.6 0.0 145.4
176 68.4 0.0 137.8

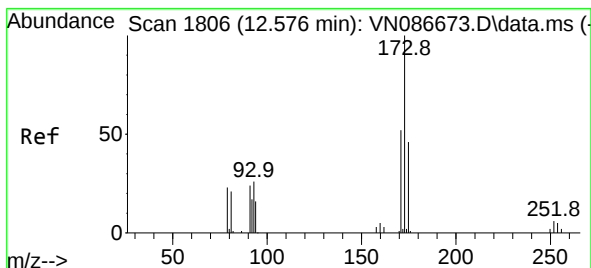
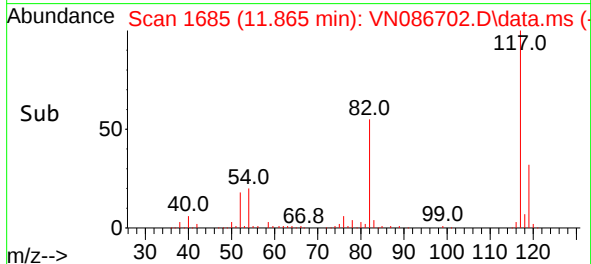
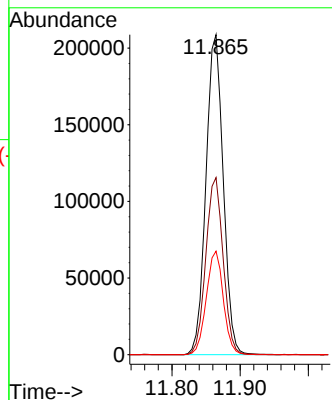
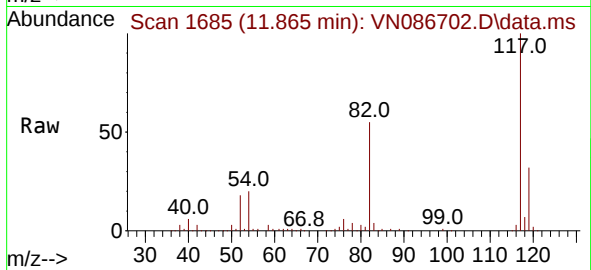




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086702.D
Acq: 19 May 2025 20:18

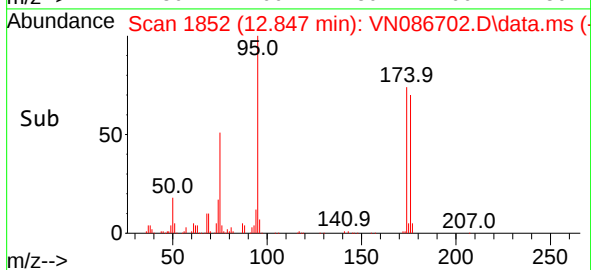
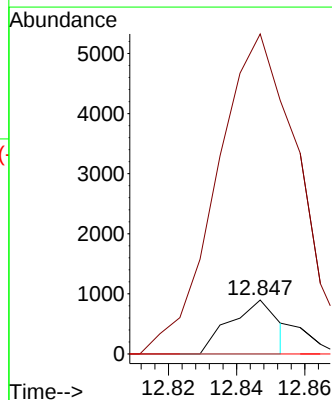
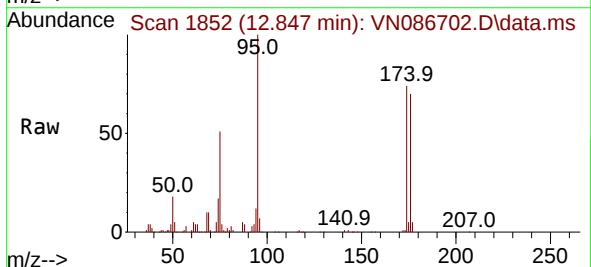
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#19

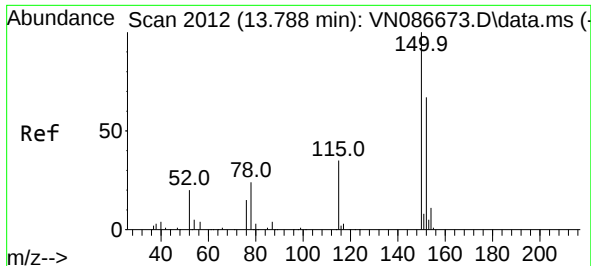
Tgt Ion:117 Resp: 368375
Ion Ratio Lower Upper
117 100
82 55.4 44.2 66.2
119 32.4 25.4 38.2



#71
Bromoform
Concen: 0.473 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.270 min
Lab File: VN086702.D
Acq: 19 May 2025 20:18

Tgt Ion:173 Resp: 878
Ion Ratio Lower Upper
173 100
175 805.0 23.4 70.2#
254 0.0 0.0 0.0

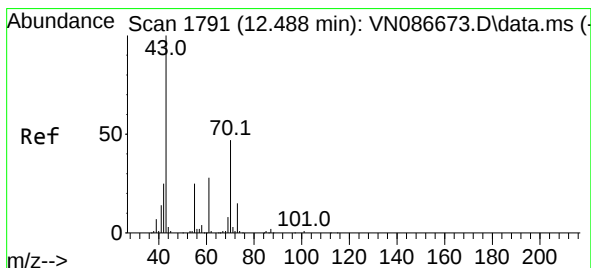
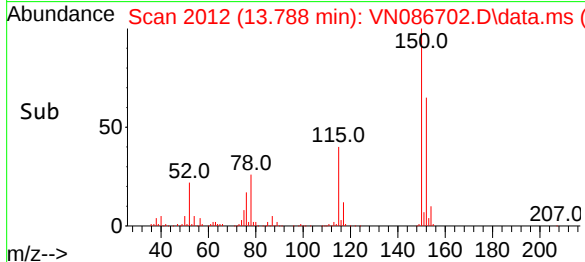
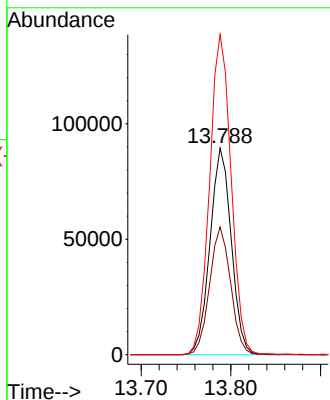
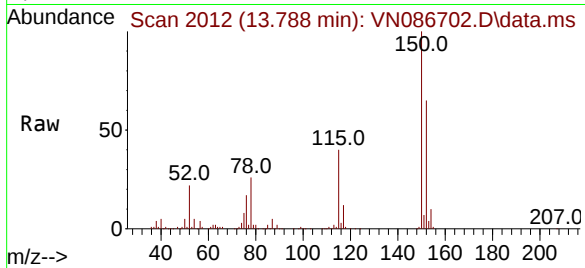




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086702.D
Acq: 19 May 2025 20:18

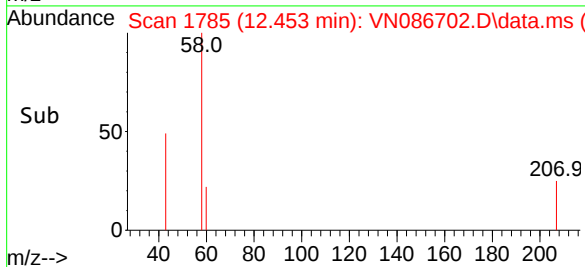
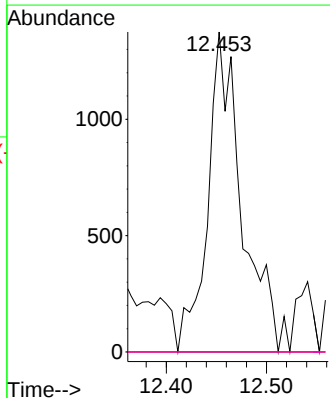
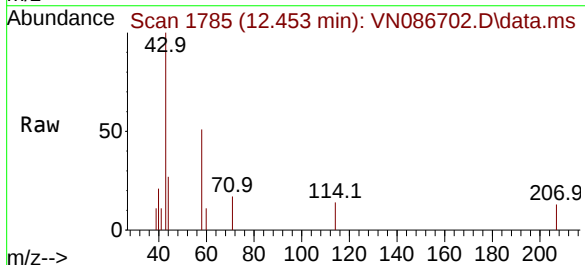
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#19

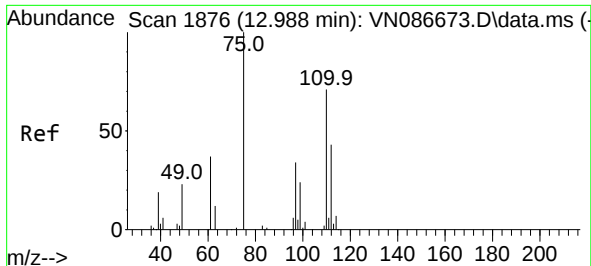
Tgt Ion:152 Resp: 147211
Ion Ratio Lower Upper
152 100
115 61.0 30.0 90.1
150 157.2 0.0 347.8



#74
N-ethyl acetate
Concen: 0.677 ug/l
RT: 12.453 min Scan# 1785
Delta R.T. -0.035 min
Lab File: VN086702.D
Acq: 19 May 2025 20:18

Tgt Ion: 43 Resp: 3216
Ion Ratio Lower Upper
43 100
70 0.0 37.9 56.9#
55 0.0 20.5 30.7#
61 0.0 21.7 32.5#

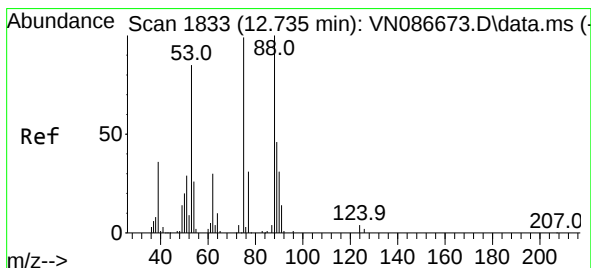
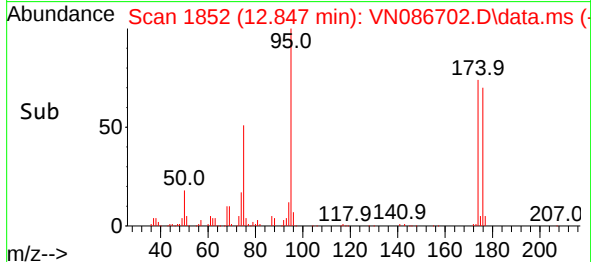
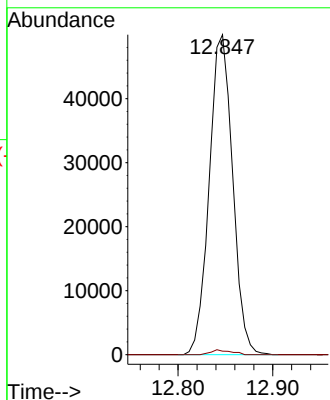
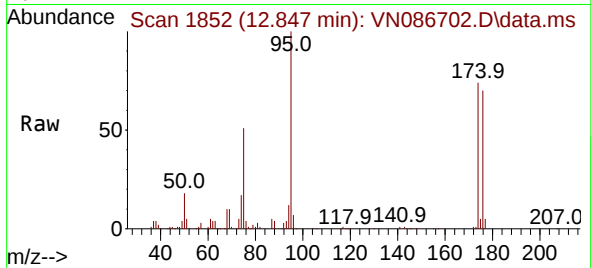




#76
1,2,3-Trichloropropane
Concen: 25.755 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086702.D
Acq: 19 May 2025 20:18

Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#19

Tgt Ion: 75 Resp: 85745
Ion Ratio Lower Upper
75 100
77 1.3 96.0 288.1#



#81
trans-1,4-Dichloro-2-butene
Concen: 64.996 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086702.D
Acq: 19 May 2025 20:18

Tgt Ion: 75 Resp: 85745
Ion Ratio Lower Upper
75 100
53 0.0 70.4 105.6#
89 0.0 32.4 48.6#

