

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051225\
 Data File : VN086584.D
 Acq On : 12 May 2025 16:29
 Operator : JC\MD
 Sample : PB167932ZHE#09
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167932ZHE#09

Quant Time: May 13 01:54:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

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

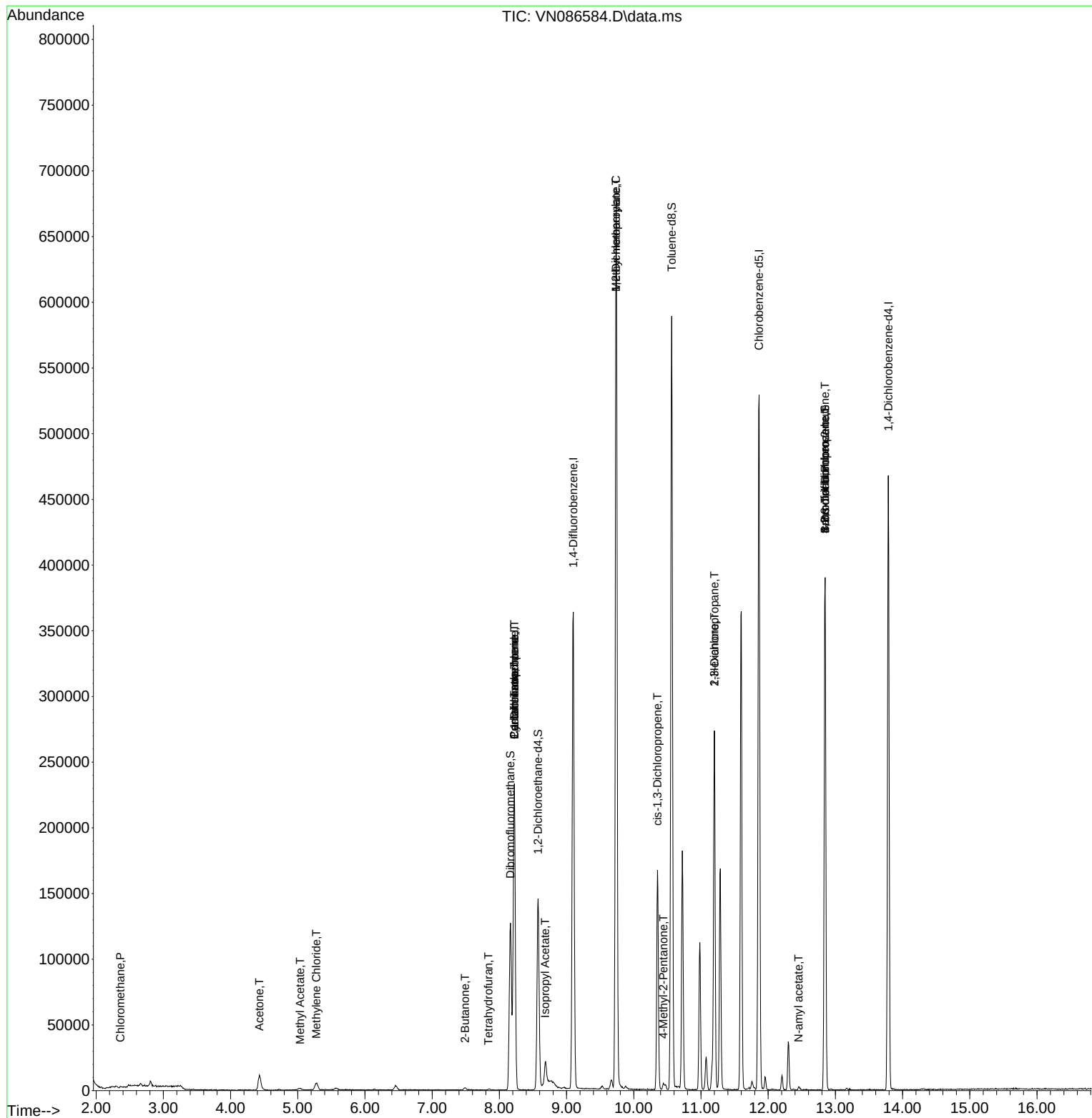
Internal Standards						
1) Pentafluorobenzene	8.224	168	173280	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	324070	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	311984	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	128702	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	119427	47.529	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	95.060%		
35) Dibromofluoromethane	8.165	113	94597	62.895	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	125.780%#		
50) Toluene-d8	10.565	98	415536	51.694	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	103.380%		
62) 4-Bromofluorobenzene	12.847	95	143535	48.956	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	97.920%		
Target Compounds					Qvalue	
3) Chloromethane	2.359	50	750	0.251	ug/l #	87
16) Acetone	4.430	43	22094	20.186	ug/l	95
18) Methyl Acetate	5.036	43	2953	0.979	ug/l #	74
20) Methylene Chloride	5.277	84	4823	2.076	ug/l #	82
25) 2-Butanone	7.489	43	3206	2.050	ug/l	99
29) Tetrahydrofuran	7.836	42	810	0.774	ug/l #	45
31) Cyclohexane	8.224	56	3608	0.886	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	14459	4.813	ug/l #	49
38) Carbon Tetrachloride	8.224	117	17607	6.154	ug/l #	16
43) Isopropyl Acetate	8.683	43	32847	3.994	ug/l #	78
45) 1,2-Dichloropropane	9.735	63	930	0.395	ug/l #	43
48) Methyl methacrylate	9.735	41	61855	22.271	ug/l #	43
51) 4-Methyl-2-Pentanone	10.441	43	3267	1.009	ug/l #	84
54) cis-1,3-Dichloropropene	10.353	75	31594	7.948	ug/l #	60
57) 1,3-Dichloropropane	11.200	76	2936	0.766	ug/l #	43
59) 2-Hexanone	11.200	43	51615	21.487	ug/l #	43
71) Bromoform	12.847	173	746	0.431	ug/l #	1
74) N-amyl acetate	12.453	43	2202	0.420	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	74144	24.412	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	74144	58.629	ug/l #	10

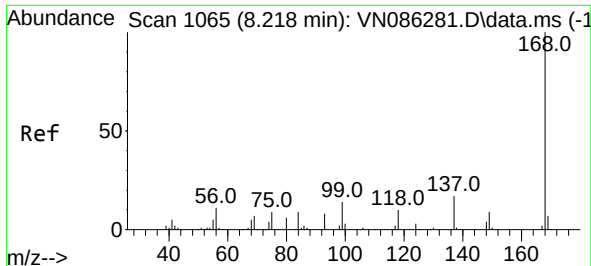
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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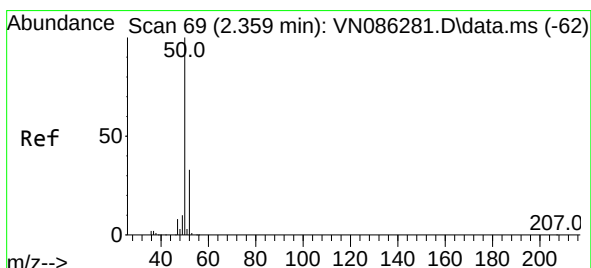
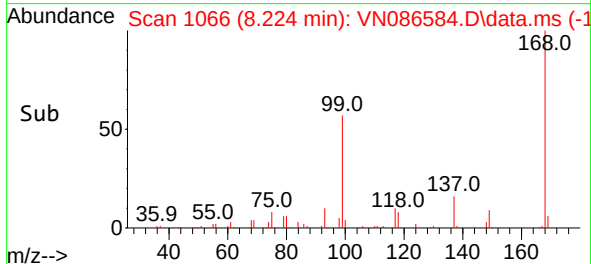
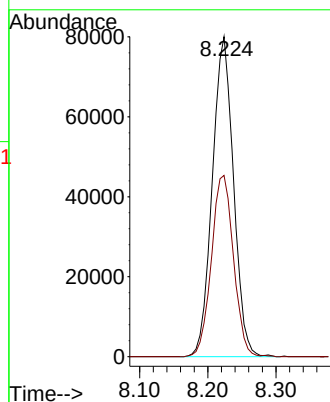
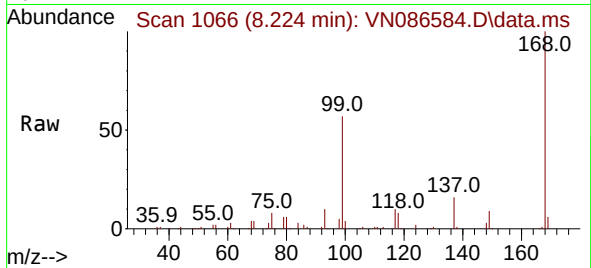




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086584.D
Acq: 12 May 2025 16:29

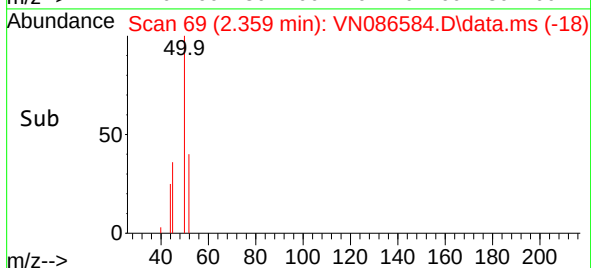
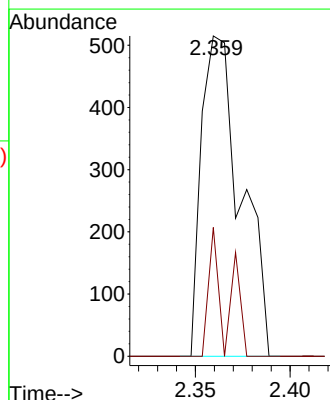
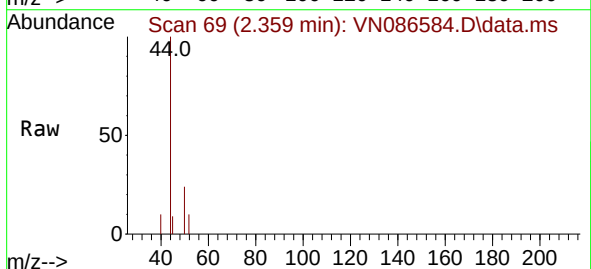
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#09

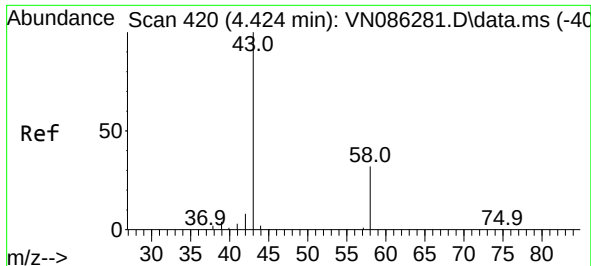
Tgt Ion:168 Resp: 173280
Ion Ratio Lower Upper
168 100
99 56.7 52.5 78.7



#3
Chloromethane
Concen: 0.251 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086584.D
Acq: 12 May 2025 16:29

Tgt Ion: 50 Resp: 750
Ion Ratio Lower Upper
50 100
52 40.2 26.5 39.7#

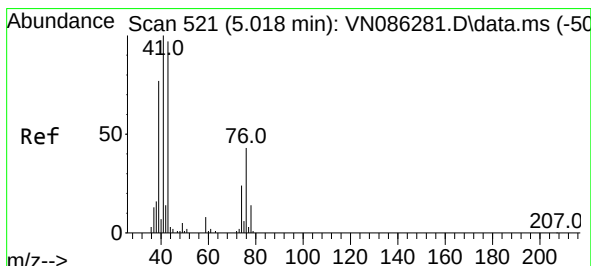
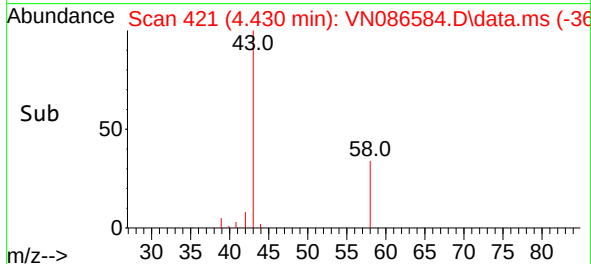
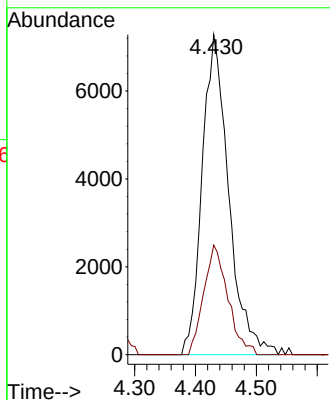
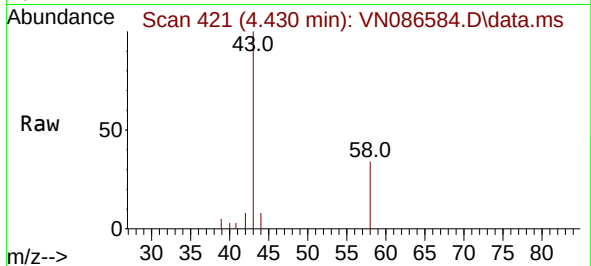




#16
Acetone
Concen: 20.186 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086584.D
Acq: 12 May 2025 16:29

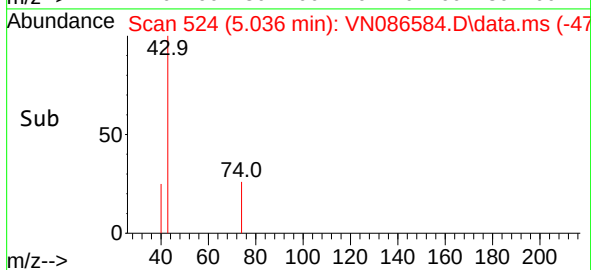
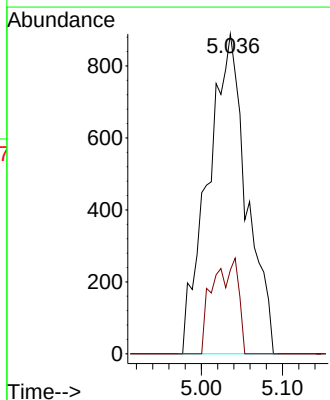
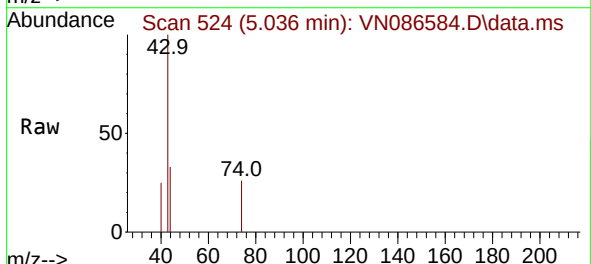
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#09

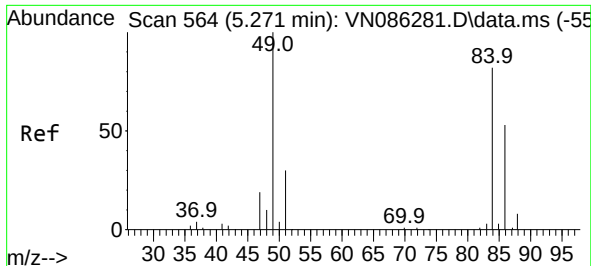
Tgt Ion: 43 Resp: 22094
Ion Ratio Lower Upper
43 100
58 34.2 25.3 37.9



#18
Methyl Acetate
Concen: 0.979 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.018 min
Lab File: VN086584.D
Acq: 12 May 2025 16:29

Tgt Ion: 43 Resp: 2953
Ion Ratio Lower Upper
43 100
74 11.9 19.8 29.6#

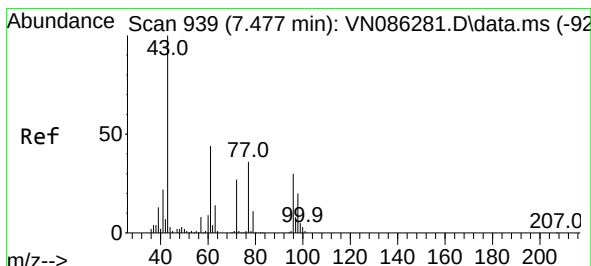
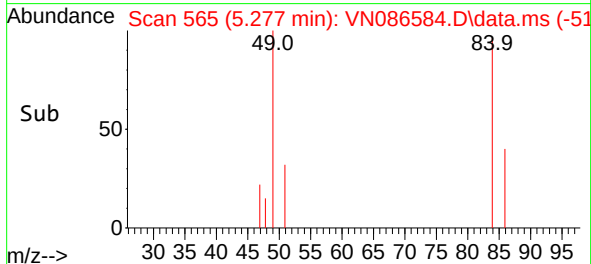
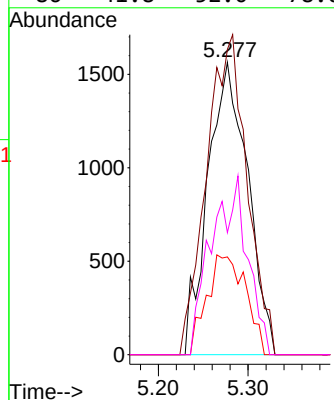
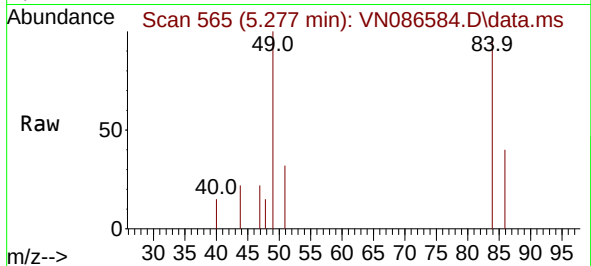




#20
Methylene Chloride
Concen: 2.076 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086584.D
Acq: 12 May 2025 16:29

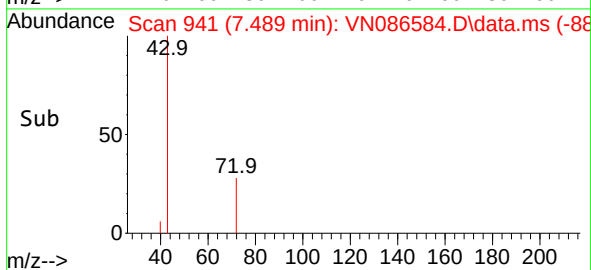
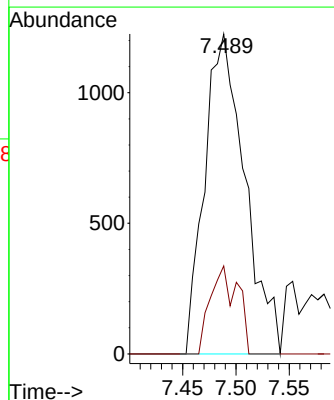
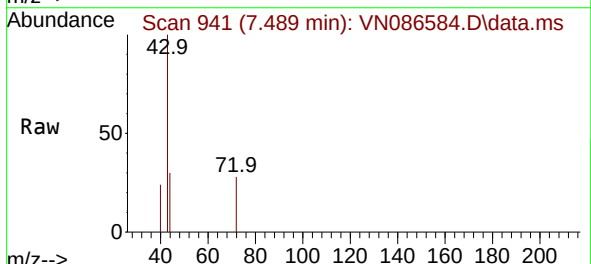
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#09

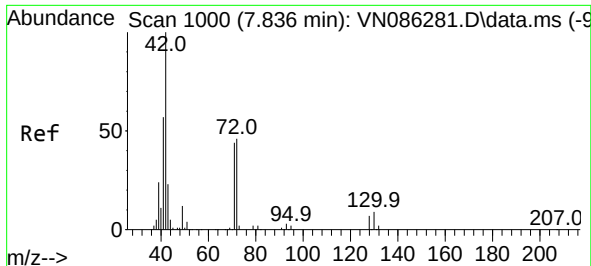
Tgt Ion:	84	Resp:	4823
Ion	Ratio	Lower	Upper
84	100		
49	104.4	98.2	147.2
51	33.4	29.8	44.6
86	41.8	52.0	78.0



#25
2-Butanone
Concen: 2.050 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086584.D
Acq: 12 May 2025 16:29

Tgt Ion:	43	Resp:	3206
Ion	Ratio	Lower	Upper
43	100		
72	27.5	21.7	32.5

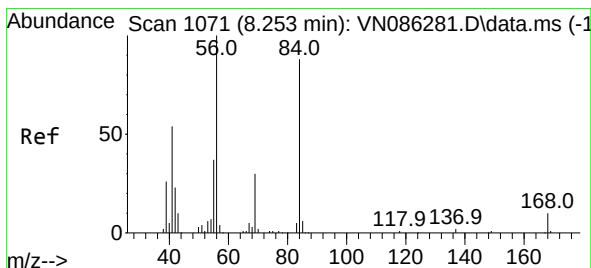
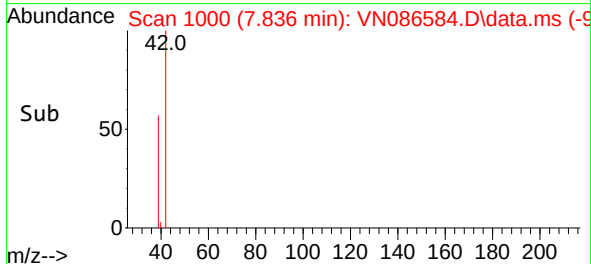
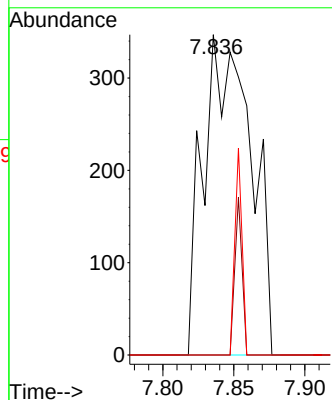
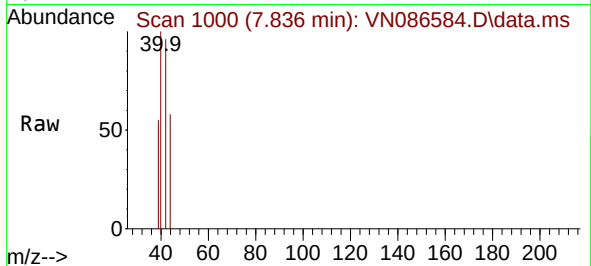




#29
Tetrahydrofuran
Concen: 0.774 ug/l
RT: 7.836 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VN086584.D
Acq: 12 May 2025 16:29

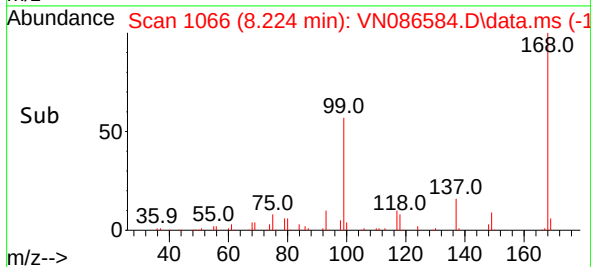
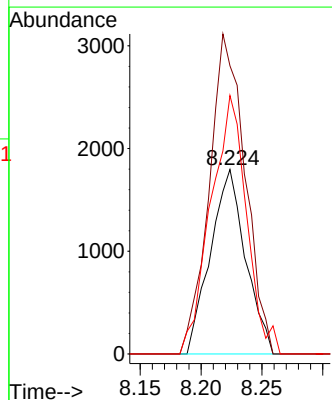
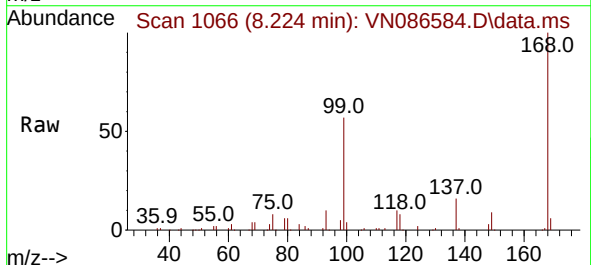
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#09

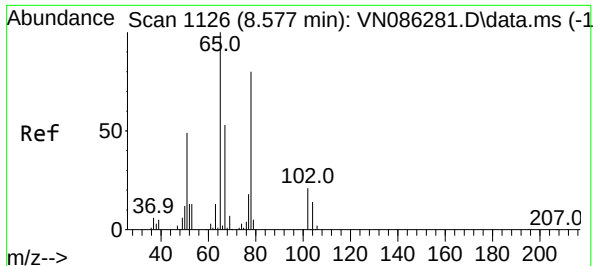
Tgt Ion: 42 Resp: 810
Ion Ratio Lower Upper
42 100
72 7.4 36.2 54.4#
71 9.8 34.0 51.0#



#31
Cyclohexane
Concen: 0.886 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN086584.D
Acq: 12 May 2025 16:29

Tgt Ion: 56 Resp: 3608
Ion Ratio Lower Upper
56 100
69 156.1 24.2 36.2#
84 140.0 70.3 105.5#





#33

1,2-Dichloroethane-d4

Concen: 47.529 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086584.D

Acq: 12 May 2025 16:29

Instrument :

MSVOA_N

ClientSampleId :

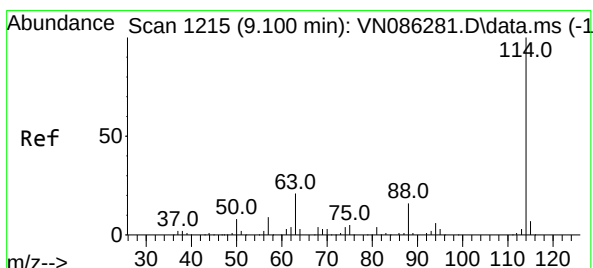
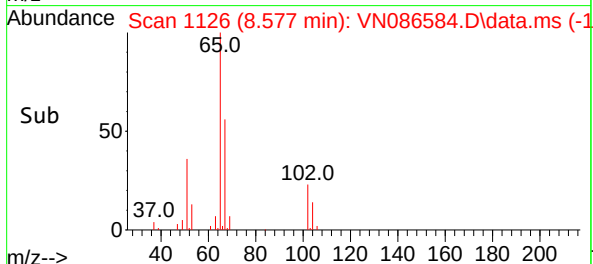
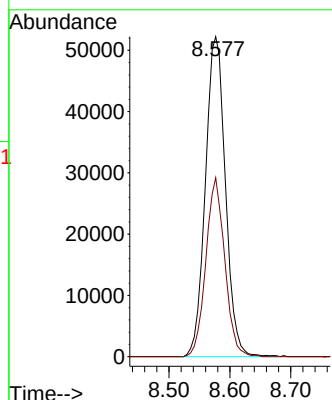
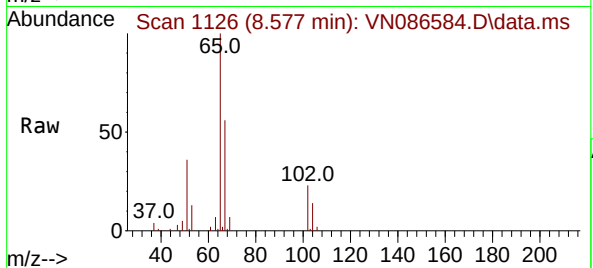
PB167932ZHE#09

Tgt Ion: 65 Resp: 119427

Ion Ratio Lower Upper

65 100

67 52.7 0.0 106.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN086584.D

Acq: 12 May 2025 16:29

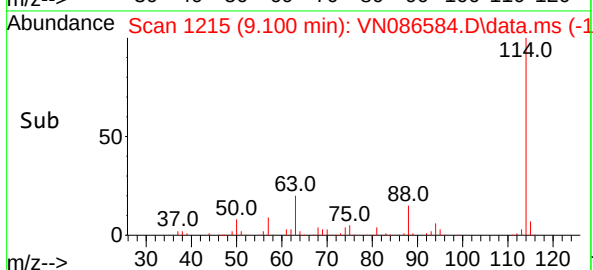
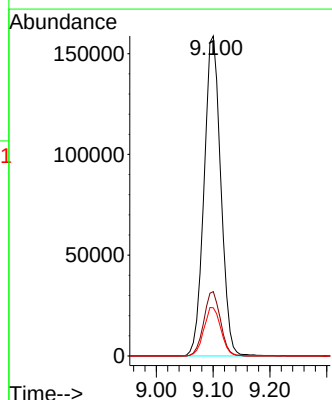
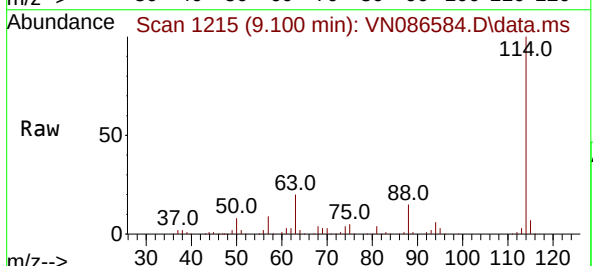
Tgt Ion: 114 Resp: 324070

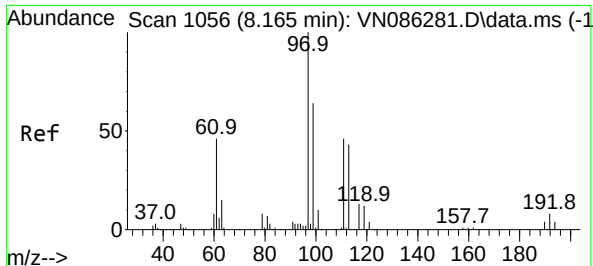
Ion Ratio Lower Upper

114 100

63 20.1 0.0 42.6

88 15.0 0.0 31.8





#35

Dibromofluoromethane

Concen: 62.895 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086584.D

Acq: 12 May 2025 16:29

Instrument :

MSVOA_N

ClientSampleId :

PB167932ZHE#09

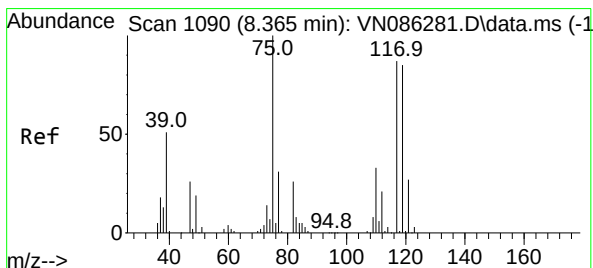
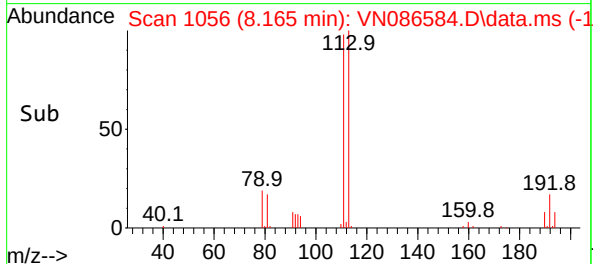
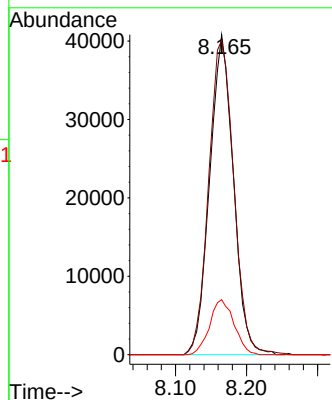
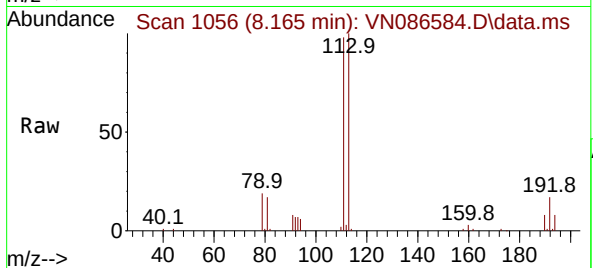
Tgt Ion:113 Resp: 94597

Ion Ratio Lower Upper

113 100

111 103.5 83.4 125.0

192 17.7 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.813 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086584.D

Acq: 12 May 2025 16:29

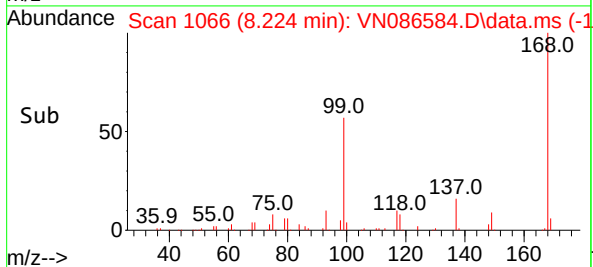
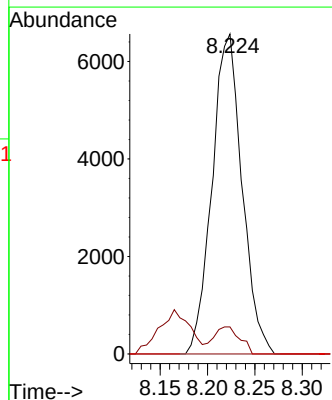
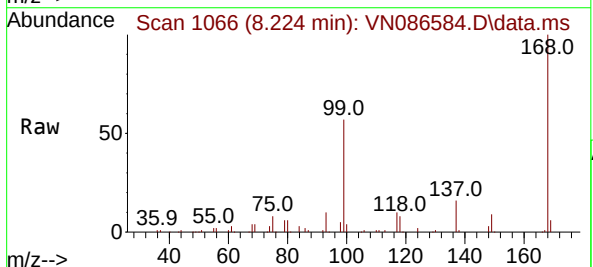
Tgt Ion: 75 Resp: 14459

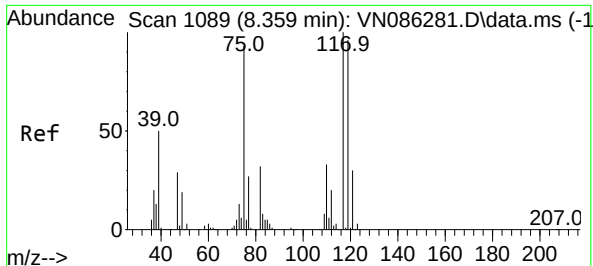
Ion Ratio Lower Upper

75 100

110 7.5 16.8 50.4#

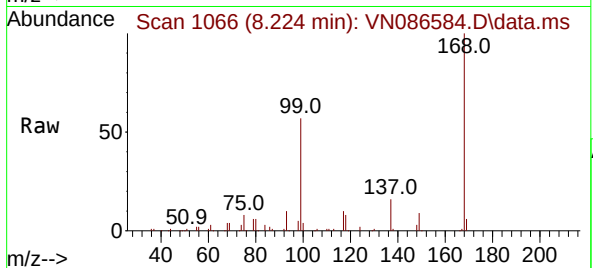
77 0.0 24.9 37.3#



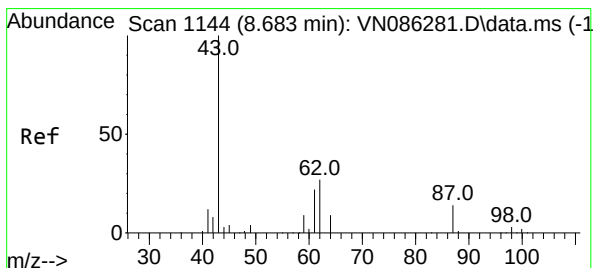
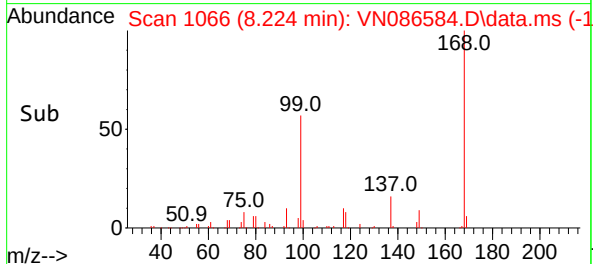
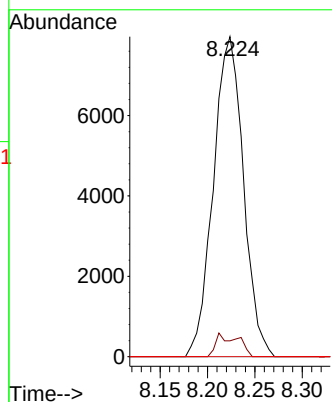


#38
Carbon Tetrachloride
Concen: 6.154 ug/l
RT: 8.224 min Scan# 1106
Delta R.T. -0.135 min
Lab File: VN086584.D
Acq: 12 May 2025 16:29

Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#09

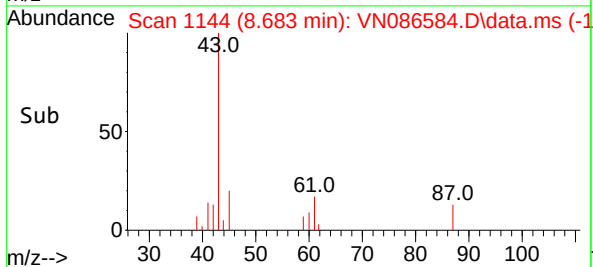
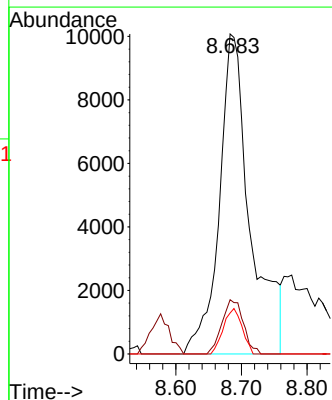
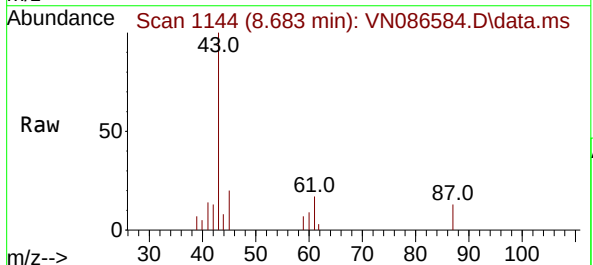


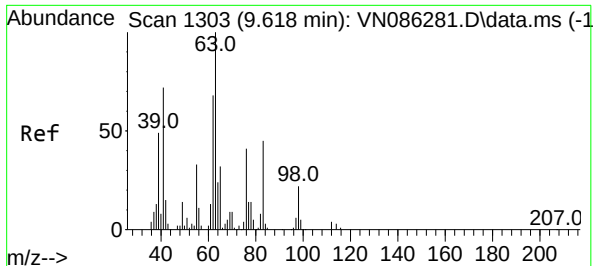
Tgt Ion:117 Resp: 17607
Ion Ratio Lower Upper
117 100
119 5.0 76.8 115.2#
121 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 3.994 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086584.D
Acq: 12 May 2025 16:29

Tgt Ion: 43 Resp: 32847
Ion Ratio Lower Upper
43 100
61 11.8 20.5 30.7#
87 8.6 10.5 15.7#





#45

1,2-Dichloropropane

Concen: 0.395 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.118 min

Lab File: VN086584.D

Acq: 12 May 2025 16:29

Instrument :

MSVOA_N

ClientSampleId :

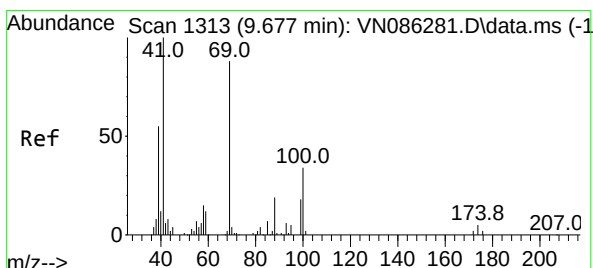
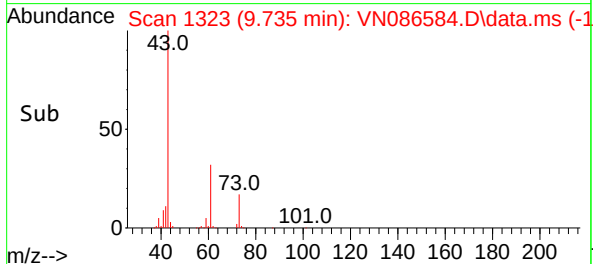
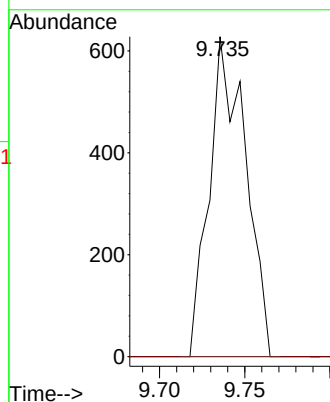
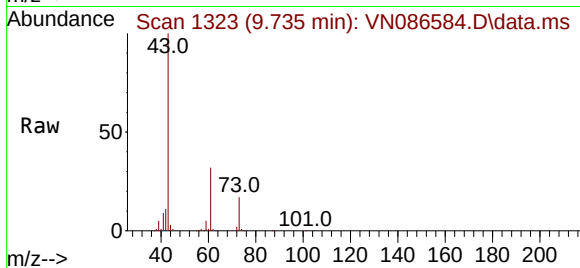
PB167932ZHE#09

Tgt Ion: 63 Resp: 930

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 22.271 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.059 min

Lab File: VN086584.D

Acq: 12 May 2025 16:29

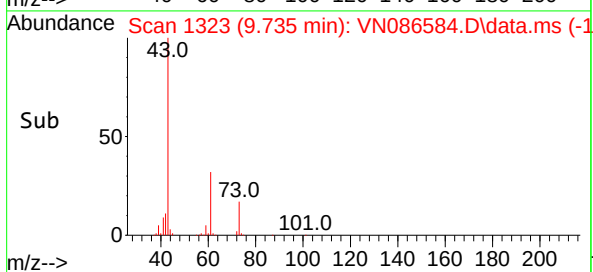
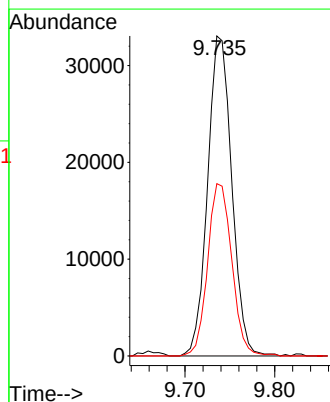
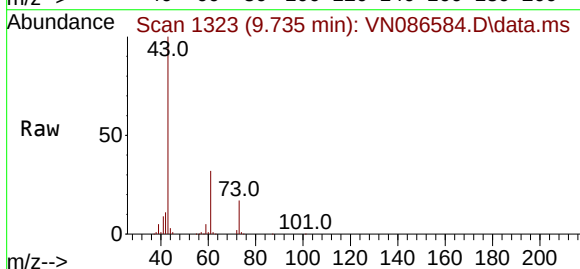
Tgt Ion: 41 Resp: 61855

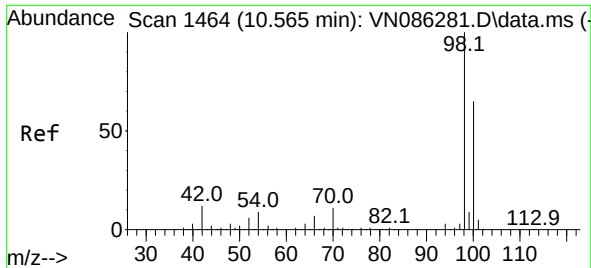
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 53.9 45.2 67.8

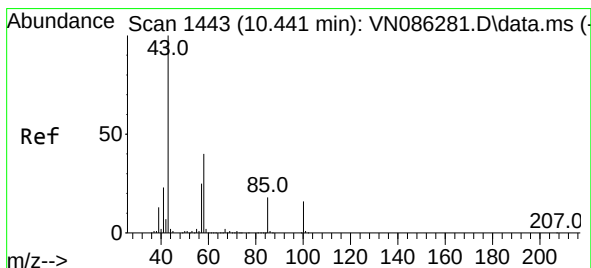
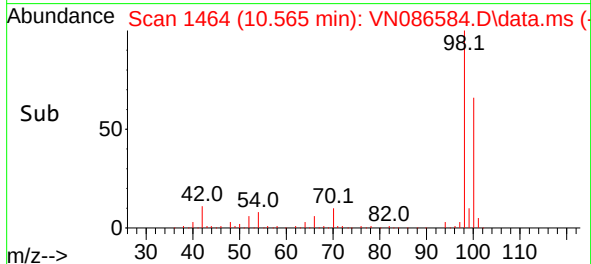
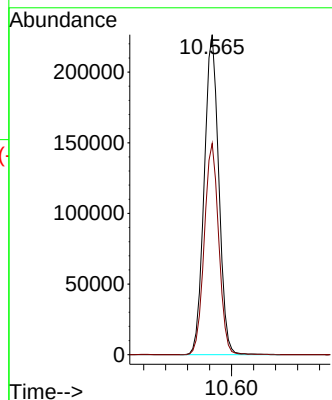
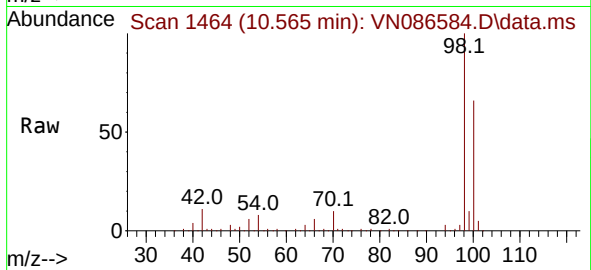




#50
Toluene-d8
Concen: 51.694 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086584.D
Acq: 12 May 2025 16:29

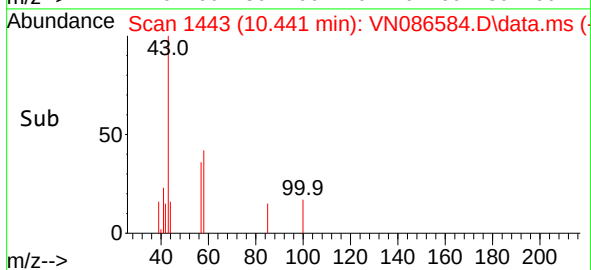
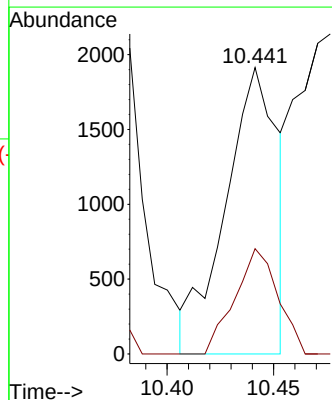
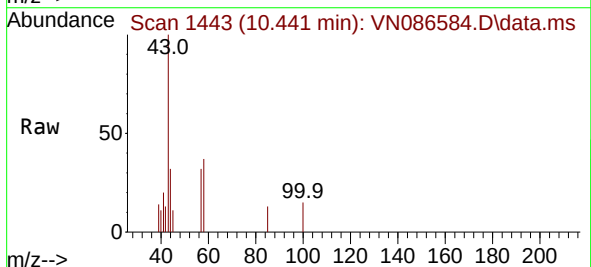
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#09

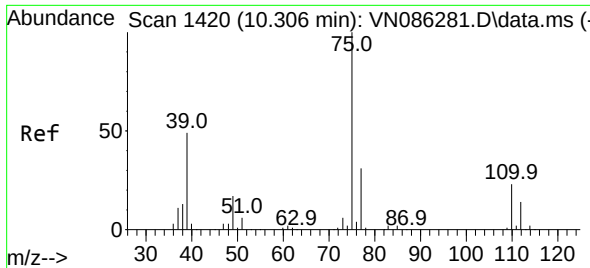
Tgt Ion: 98 Resp: 415536
Ion Ratio Lower Upper
98 100
100 65.6 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 1.009 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086584.D
Acq: 12 May 2025 16:29

Tgt Ion: 43 Resp: 3267
Ion Ratio Lower Upper
43 100
58 30.4 32.2 48.4#

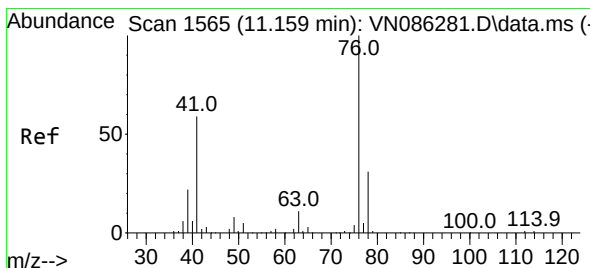
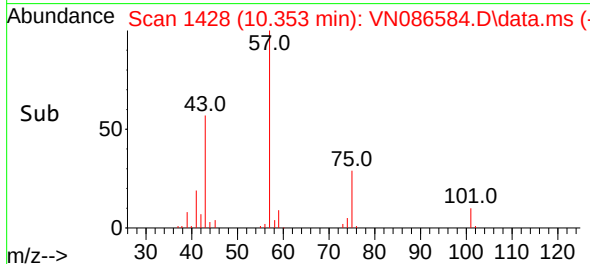
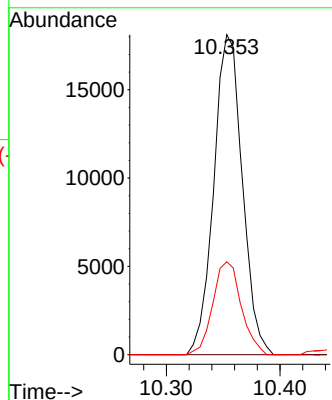
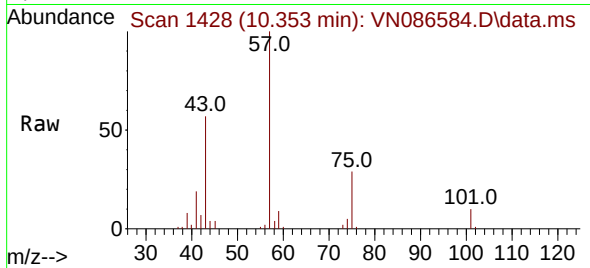




#54
 cis-1,3-Dichloropropene
 Concen: 7.948 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN086584.D
 Acq: 12 May 2025 16:29

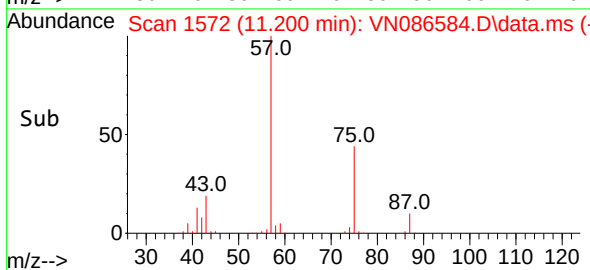
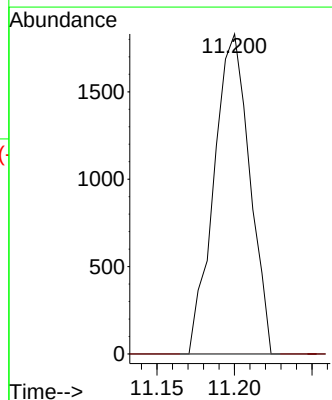
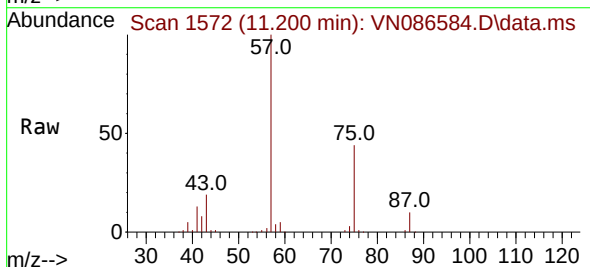
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167932ZHE#09

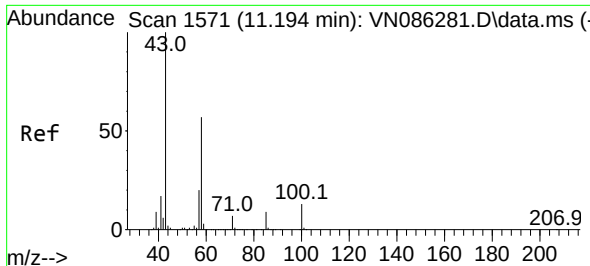
Tgt Ion: 75 Resp: 31594
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 29.1 39.3 58.9#



#57
 1,3-Dichloropropane
 Concen: 0.766 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.041 min
 Lab File: VN086584.D
 Acq: 12 May 2025 16:29

Tgt Ion: 76 Resp: 2936
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

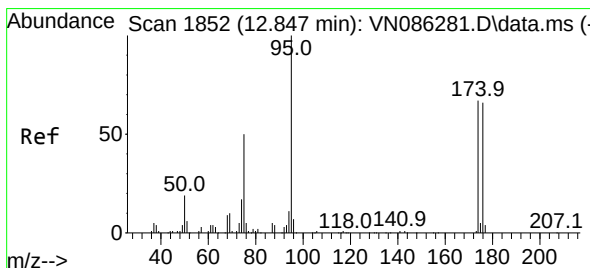
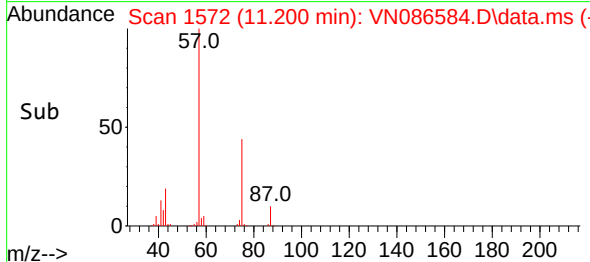
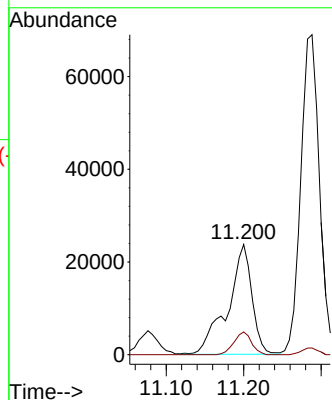
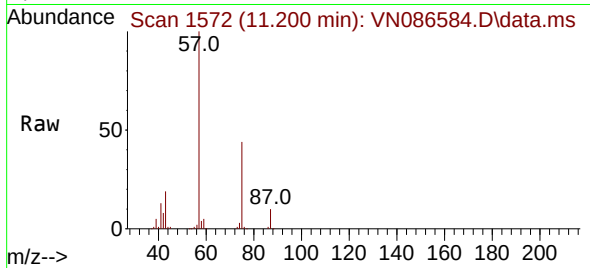




#59
2-Hexanone
Concen: 21.487 ug/l
RT: 11.200 min Scan# 111
Delta R.T. 0.006 min
Lab File: VN086584.D
Acq: 12 May 2025 16:29

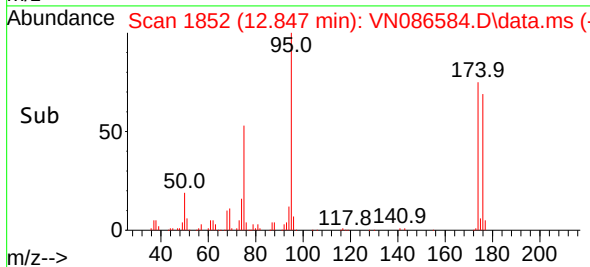
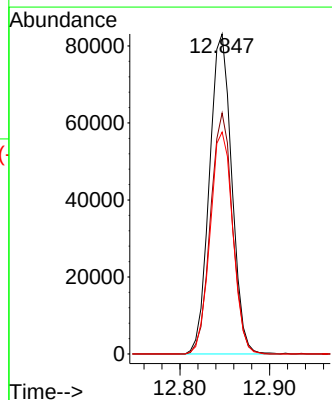
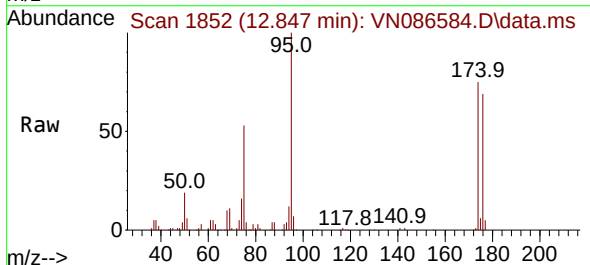
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#09

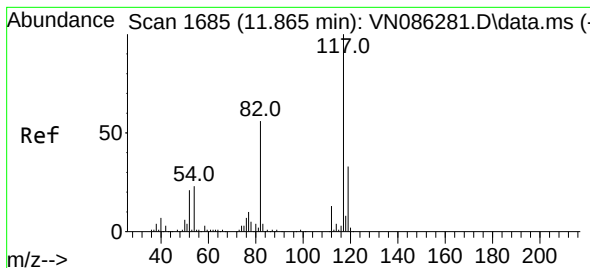
Tgt Ion: 43 Resp: 51615
Ion Ratio Lower Upper
43 100
58 15.0 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 48.956 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086584.D
Acq: 12 May 2025 16:29

Tgt Ion: 95 Resp: 143535
Ion Ratio Lower Upper
95 100
174 74.4 0.0 133.4
176 70.5 0.0 129.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086584.D

Acq: 12 May 2025 16:29

Instrument :

MSVOA_N

ClientSampleId :

PB167932ZHE#09

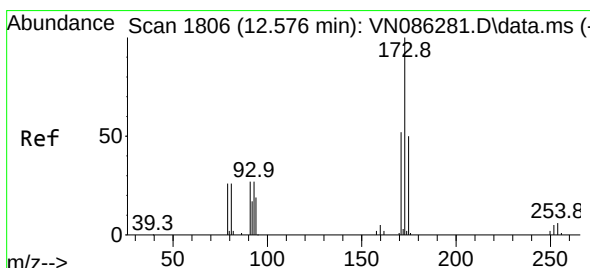
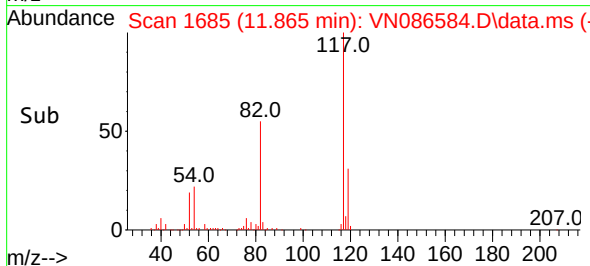
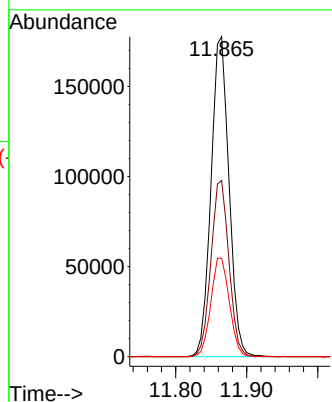
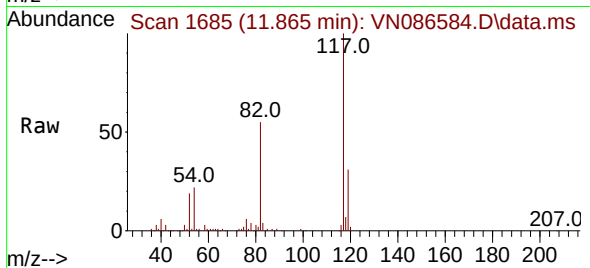
Tgt Ion:117 Resp: 311984

Ion Ratio Lower Upper

117 100

82 55.1 44.7 67.1

119 30.8 26.4 39.6



#71

Bromoform

Concen: 0.431 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.271 min

Lab File: VN086584.D

Acq: 12 May 2025 16:29

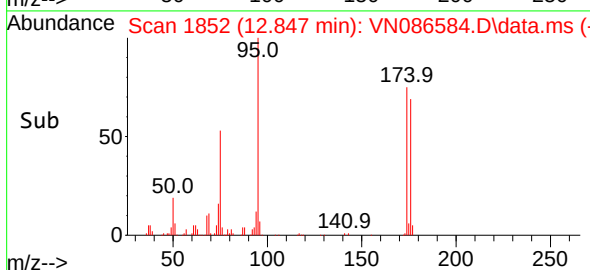
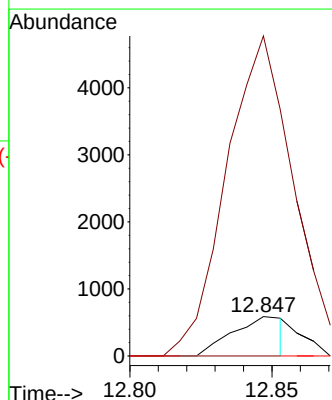
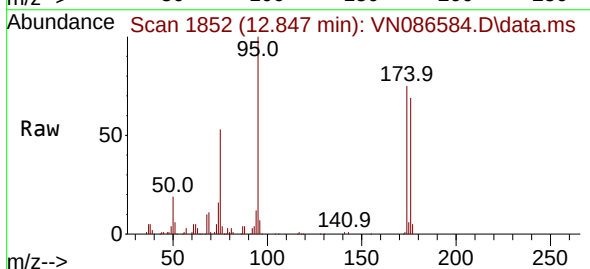
Tgt Ion:173 Resp: 746

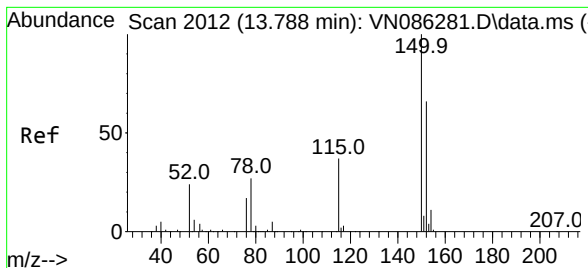
Ion Ratio Lower Upper

173 100

175 853.8 24.6 73.6#

254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN086584.D

Acq: 12 May 2025 16:29

Instrument :

MSVOA_N

ClientSampleId :

PB167932ZHE#09

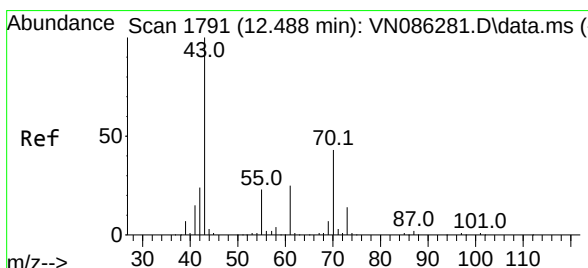
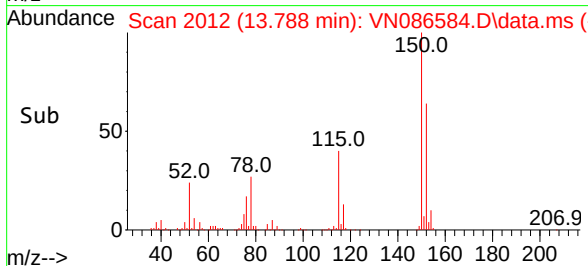
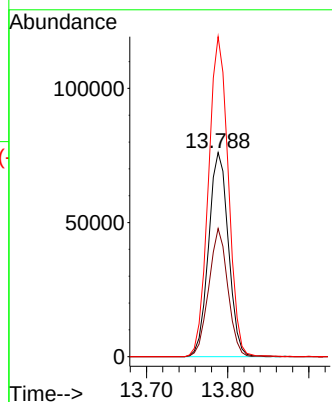
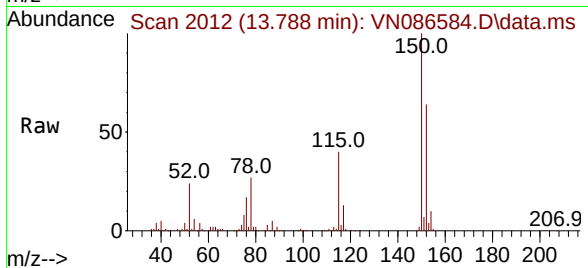
Tgt Ion:152 Resp: 128702

Ion Ratio Lower Upper

152 100

115 60.4 31.9 95.9

150 157.4 0.0 352.0



#74

N-ethyl acetate

Concen: 0.420 ug/l

RT: 12.453 min Scan# 1785

Delta R.T. -0.035 min

Lab File: VN086584.D

Acq: 12 May 2025 16:29

Tgt Ion: 43 Resp: 2202

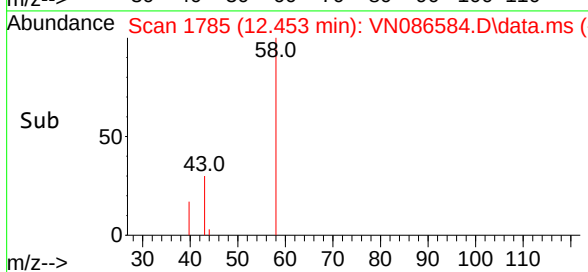
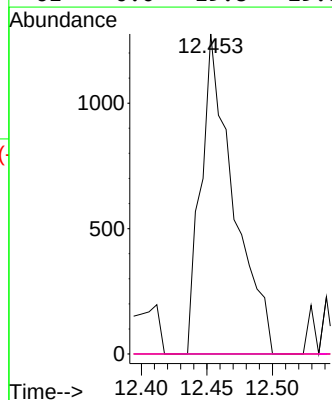
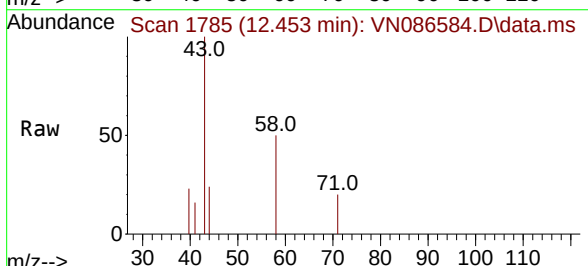
Ion Ratio Lower Upper

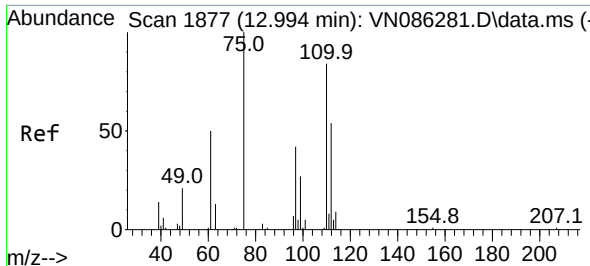
43 100

70 0.0 35.0 52.4#

55 0.0 19.0 28.4#

61 0.0 19.8 29.8#

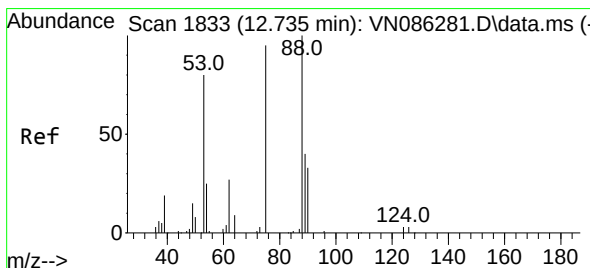
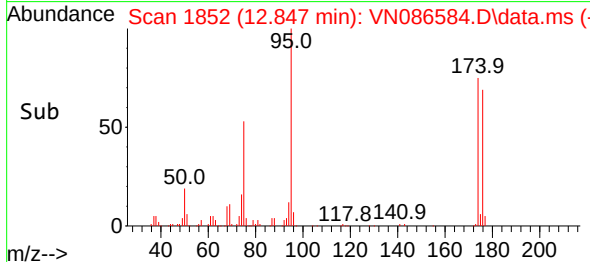
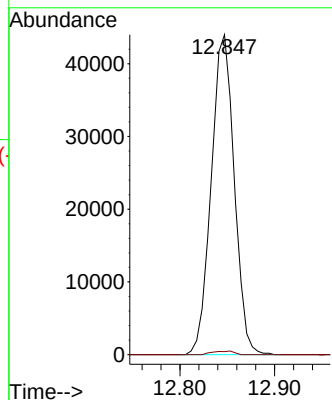
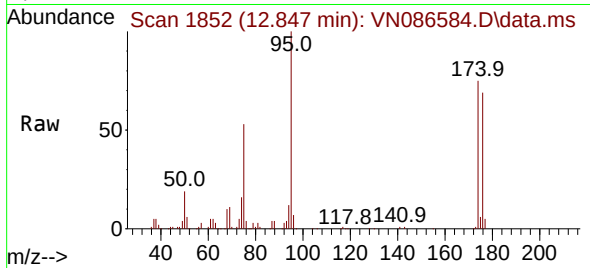




#76
1,2,3-Trichloropropane
Concen: 24.412 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086584.D
Acq: 12 May 2025 16:29

Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#09

Tgt Ion: 75 Resp: 74144
Ion Ratio Lower Upper
75 100
77 1.0 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 58.629 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086584.D
Acq: 12 May 2025 16:29

Tgt Ion: 75 Resp: 74144
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

