

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050825\
 Data File : VN086551.D
 Acq On : 08 May 2025 17:26
 Operator : JC\MD
 Sample : PB167895ZHE#09
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167895ZHE#09

Quant Time: May 09 01:55:33 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)

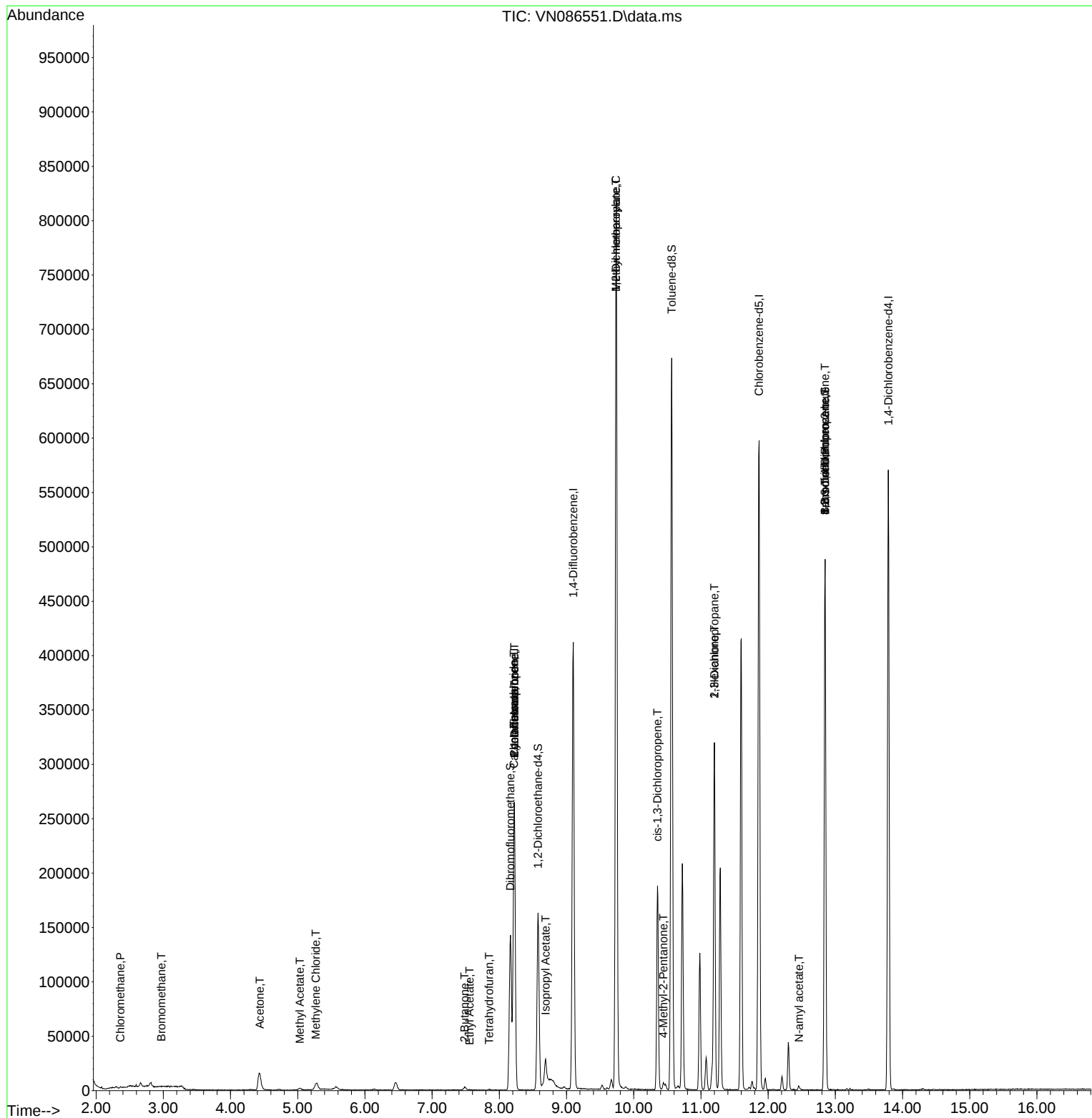
Internal Standards						
1) Pentafluorobenzene	8.224	168	200016	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	372519	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	363723	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	159774	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	134812	46.480	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	92.960%		
35) Dibromofluoromethane	8.165	113	105354	60.937	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	121.880%		
50) Toluene-d8	10.565	98	472392	51.124	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	102.240%		
62) 4-Bromofluorobenzene	12.847	95	173516	51.484	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	102.960%		
Target Compounds						Qvalue
3) Chloromethane	2.359	50	831	0.241	ug/l	100
5) Bromomethane	2.971	94	383	0.259	ug/l	94
13) Acrolein	4.189	56	63	Below Cal	#	13
16) Acetone	4.436	43	32885	27.719	ug/l	91
18) Methyl Acetate	5.030	43	3569	1.025	ug/l	# 71
20) Methylene Chloride	5.271	84	4801	1.791	ug/l	96
25) 2-Butanone	7.483	43	5089	2.819	ug/l	96
29) Tetrahydrofuran	7.847	42	518	0.429	ug/l	# 32
31) Cyclohexane	8.224	56	4165	0.886	ug/l	# 15
36) 1,1-Dichloropropene	8.224	75	15794	4.574	ug/l	# 50
37) Ethyl Acetate	7.559	43	798	0.219	ug/l	# 68
38) Carbon Tetrachloride	8.218	117	19675	5.983	ug/l	# 16
43) Isopropyl Acetate	8.688	43	40213	4.377	ug/l	# 79
45) 1,2-Dichloropropane	9.735	63	1119	0.413	ug/l	# 43
48) Methyl methacrylate	9.735	41	73255	22.945	ug/l	# 43
51) 4-Methyl-2-Pentanone	10.441	43	4715	1.267	ug/l	88
54) cis-1,3-Dichloropropene	10.353	75	36045	7.888	ug/l	# 58
57) 1,3-Dichloropropane	11.200	76	3612	0.820	ug/l	# 43
59) 2-Hexanone	11.200	43	60332	21.849	ug/l	# 42
71) Bromoform	12.847	173	827	0.410	ug/l	# 1
74) N-amyl acetate	12.459	43	2950	0.453	ug/l	# 43
76) 1,2,3-Trichloropropane	12.847	75	88692	23.523	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.847	75	88692	56.494	ug/l	# 10

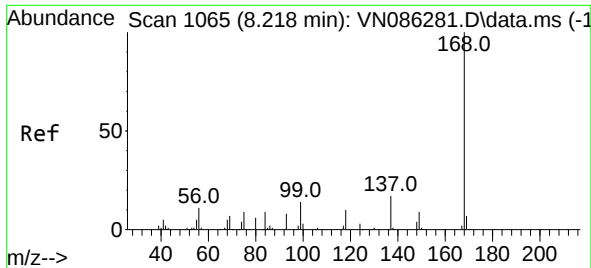
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

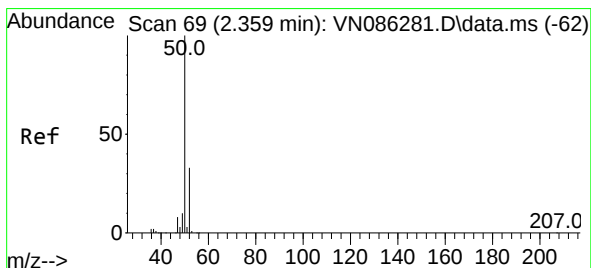
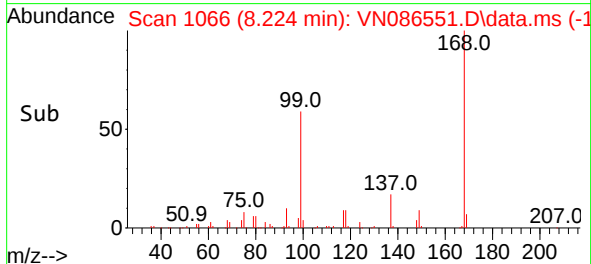
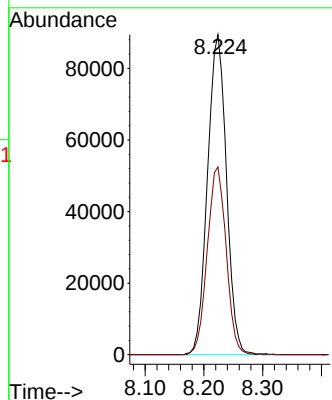
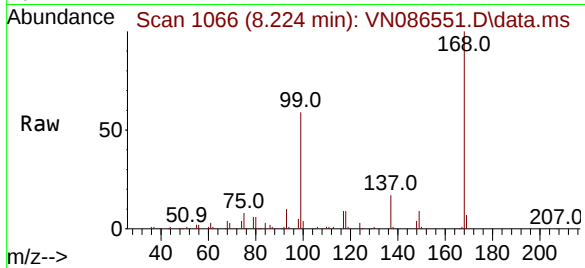




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086551.D
Acq: 08 May 2025 17:26

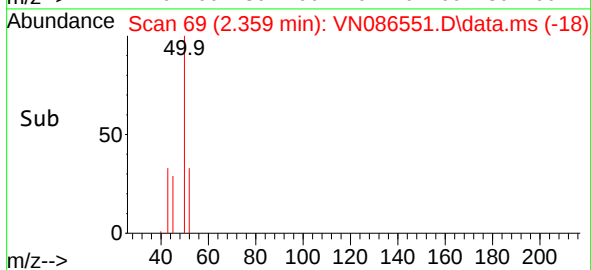
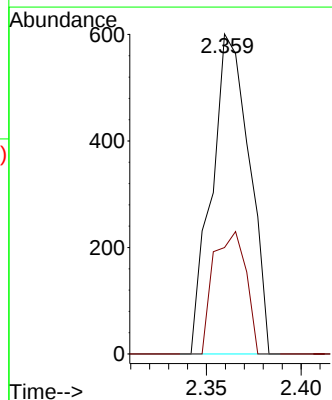
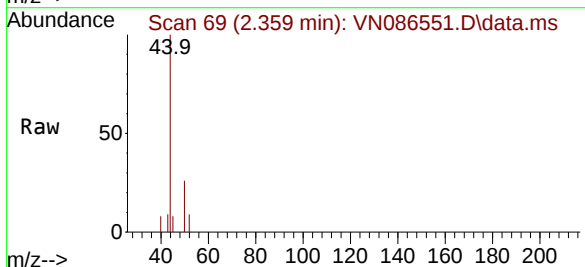
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#09

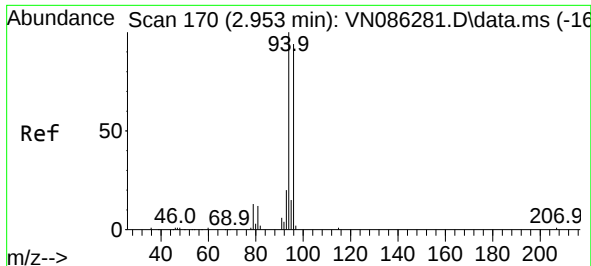
Tgt Ion:168 Resp: 200016
Ion Ratio Lower Upper
168 100
99 58.7 52.5 78.7



#3
Chloromethane
Concen: 0.241 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086551.D
Acq: 08 May 2025 17:26

Tgt Ion: 50 Resp: 831
Ion Ratio Lower Upper
50 100
52 33.3 26.5 39.7

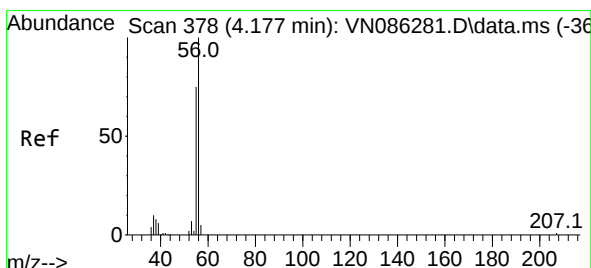
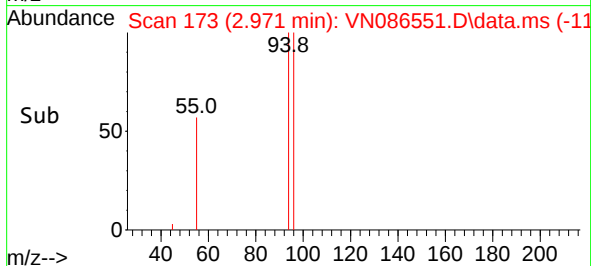
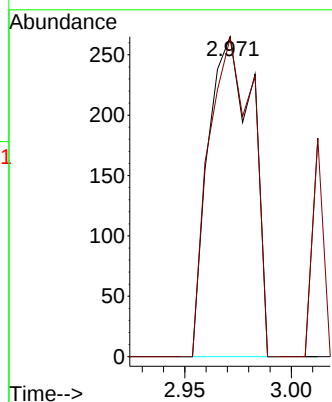
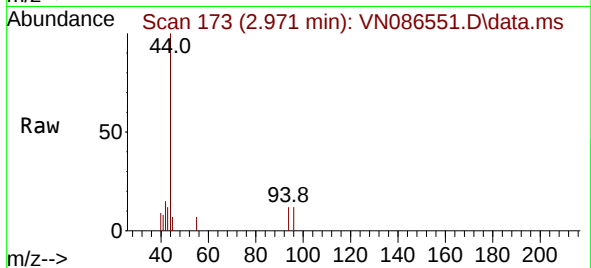




#5
Bromomethane
Concen: 0.259 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN086551.D
Acq: 08 May 2025 17:26

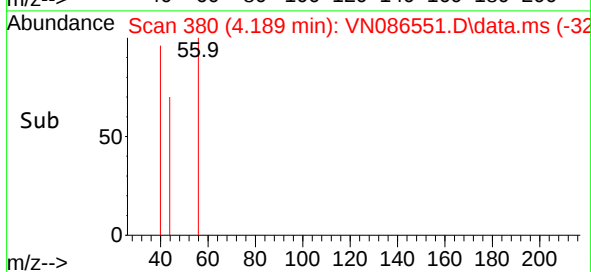
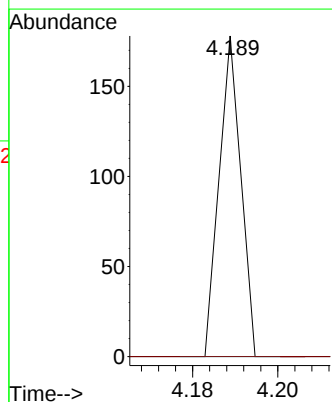
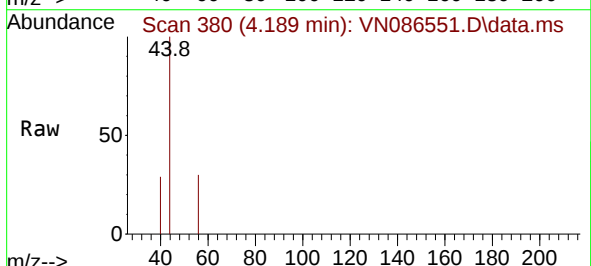
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#09

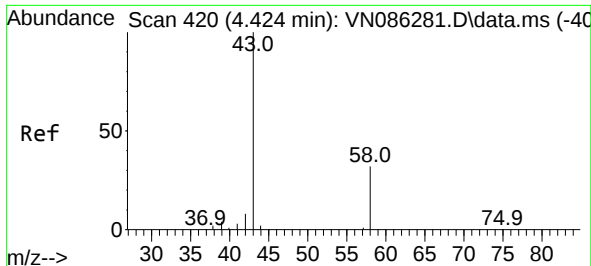
Tgt Ion: 94 Resp: 383
Ion Ratio Lower Upper
94 100
96 99.6 75.2 112.8



#13
Acrolein
Concen: Below Cal
RT: 4.189 min Scan# 380
Delta R.T. 0.012 min
Lab File: VN086551.D
Acq: 08 May 2025 17:26

Tgt Ion: 56 Resp: 63
Ion Ratio Lower Upper
56 100
55 0.0 58.5 87.7#

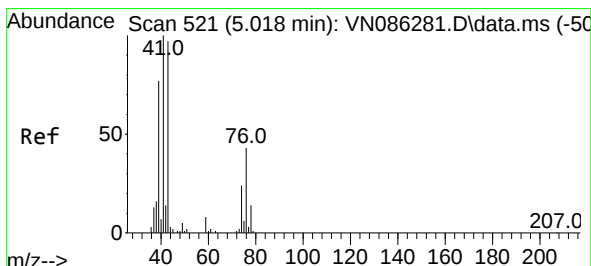
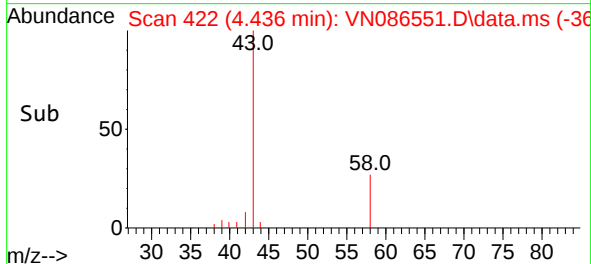
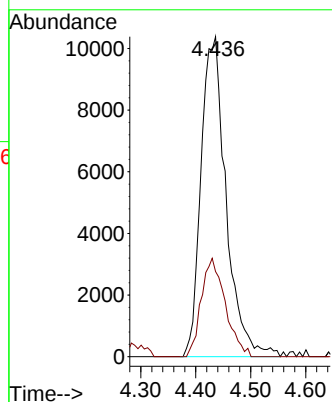
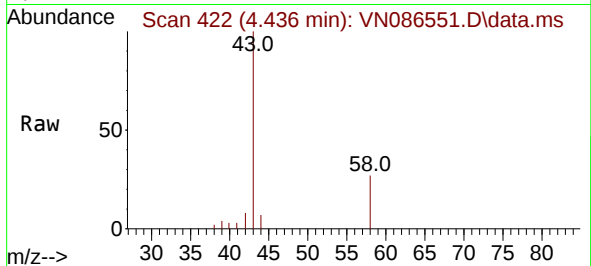




#16
Acetone
Concen: 27.719 ug/l
RT: 4.436 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN086551.D
Acq: 08 May 2025 17:26

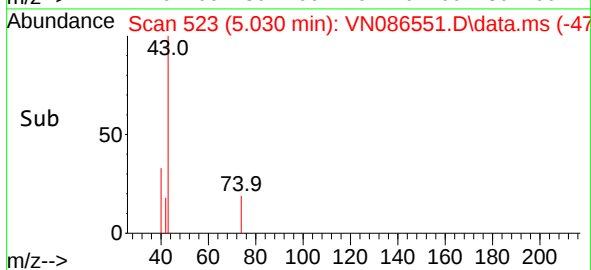
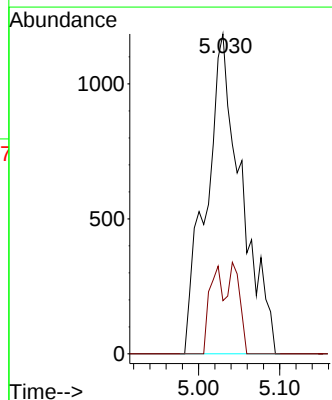
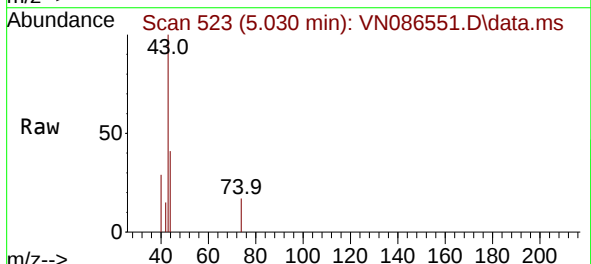
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#09

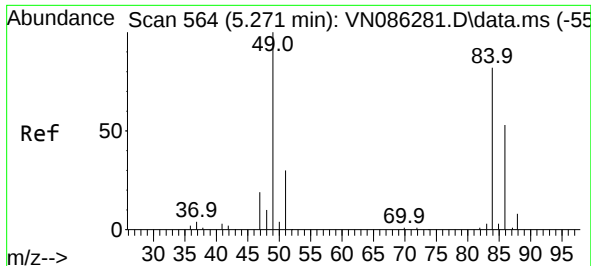
Tgt Ion: 43 Resp: 32885
Ion Ratio Lower Upper
43 100
58 26.6 25.3 37.9



#18
Methyl Acetate
Concen: 1.025 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN086551.D
Acq: 08 May 2025 17:26

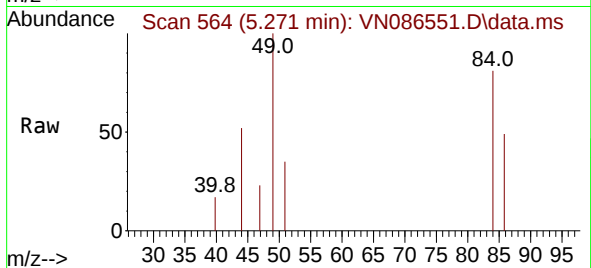
Tgt Ion: 43 Resp: 3569
Ion Ratio Lower Upper
43 100
74 10.2 19.8 29.6#



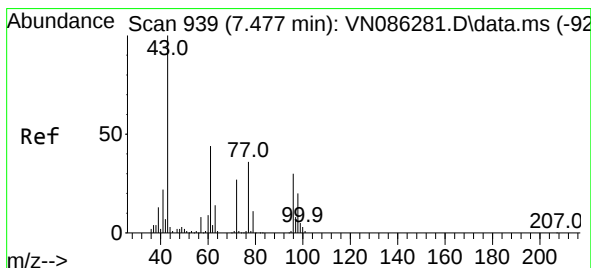
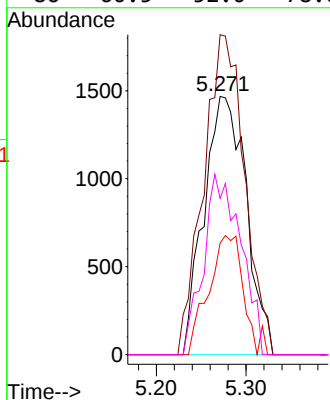
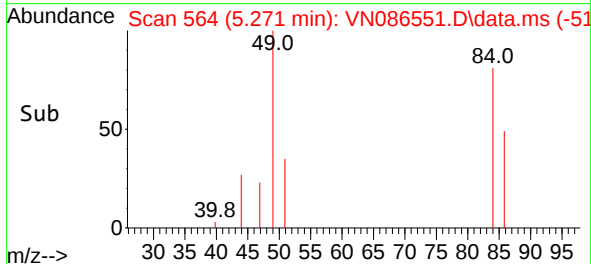


#20
Methylene Chloride
Concen: 1.791 ug/l
RT: 5.271 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN086551.D
Acq: 08 May 2025 17:26

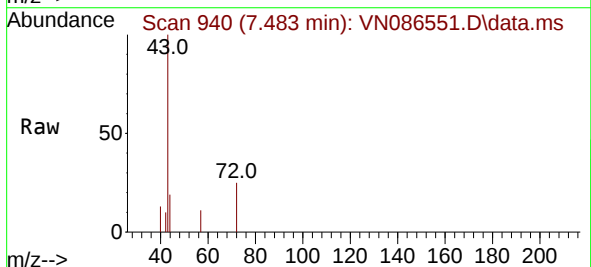
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#09



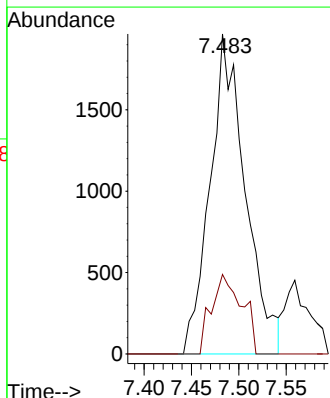
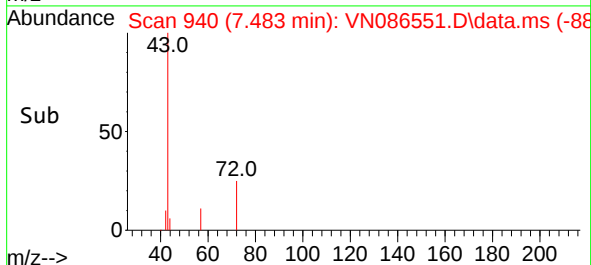
Tgt Ion:	84	Resp:	4801
Ion	Ratio	Lower	Upper
84	100		
49	123.9	98.2	147.2
51	43.2	29.8	44.6
86	60.5	52.0	78.0

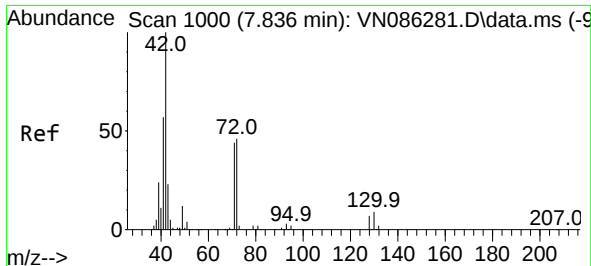


#25
2-Butanone
Concen: 2.819 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086551.D
Acq: 08 May 2025 17:26



Tgt Ion:	43	Resp:	5089
Ion	Ratio	Lower	Upper
43	100		
72	24.9	21.7	32.5





#29

Tetrahydrofuran

Concen: 0.429 ug/l

RT: 7.847 min Scan# 1066

Delta R.T. 0.012 min

Lab File: VN086551.D

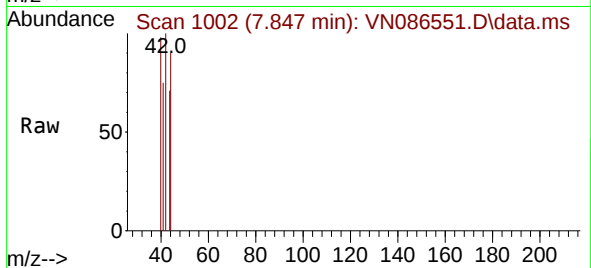
Acq: 08 May 2025 17:26

Instrument :

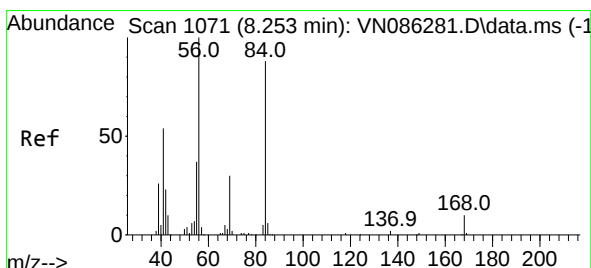
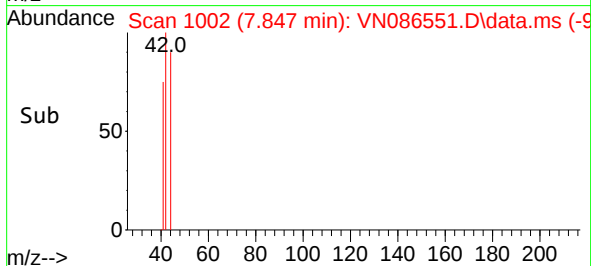
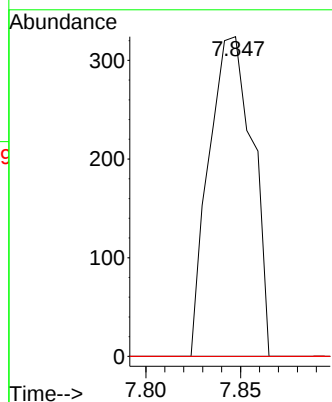
MSVOA_N

ClientSampleId :

PB167895ZHE#09



Tgt Ion:	42	Resp:	518
Ion	Ratio	Lower	Upper
42	100		
72	0.0	36.2	54.4#
71	0.0	34.0	51.0#



#31

Cyclohexane

Concen: 0.886 ug/l

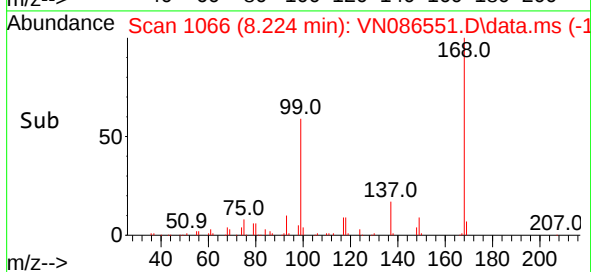
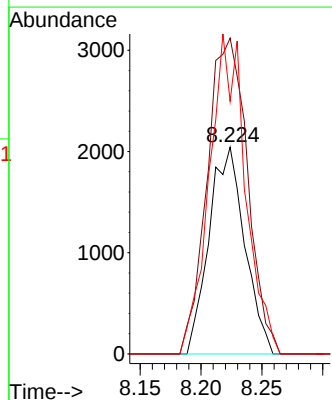
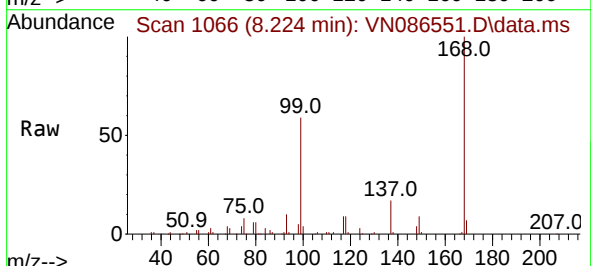
RT: 8.224 min Scan# 1066

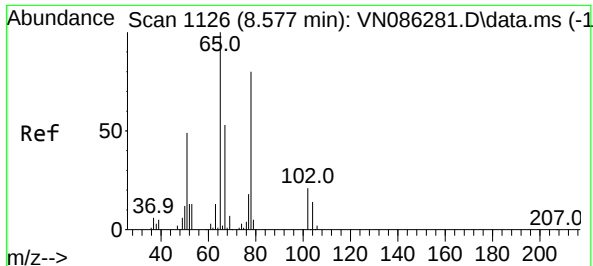
Delta R.T. -0.029 min

Lab File: VN086551.D

Acq: 08 May 2025 17:26

Tgt Ion:	56	Resp:	4165
Ion	Ratio	Lower	Upper
56	100		
69	152.7	24.2	36.2#
84	122.1	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 46.480 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086551.D

Acq: 08 May 2025 17:26

Instrument :

MSVOA_N

ClientSampleId :

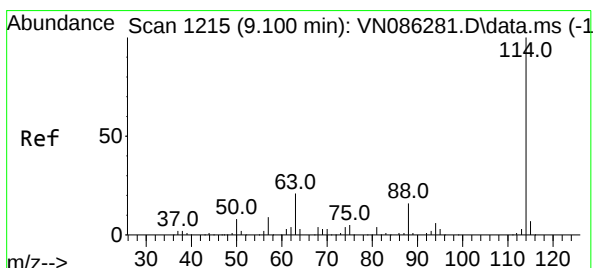
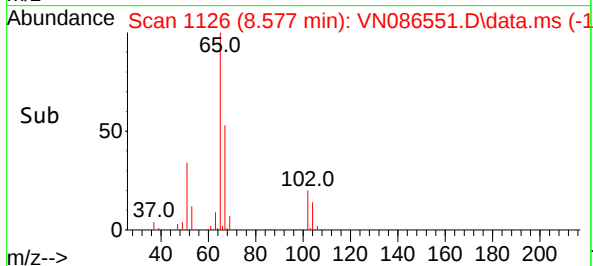
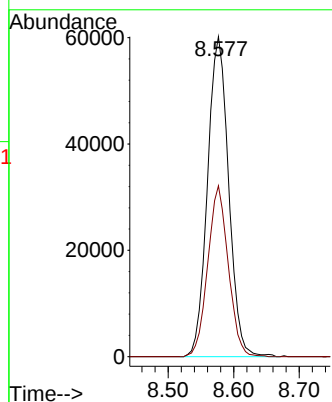
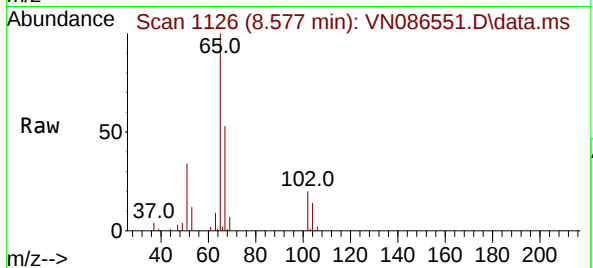
PB167895ZHE#09

Tgt Ion: 65 Resp: 134812

Ion Ratio Lower Upper

65 100

67 51.9 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: VN086551.D

Acq: 08 May 2025 17:26

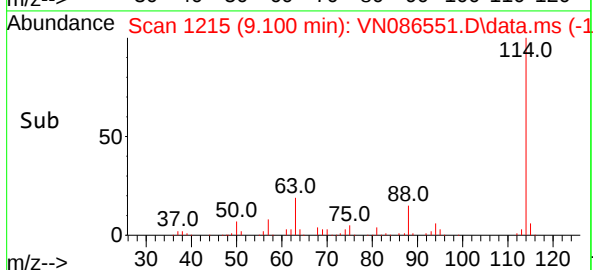
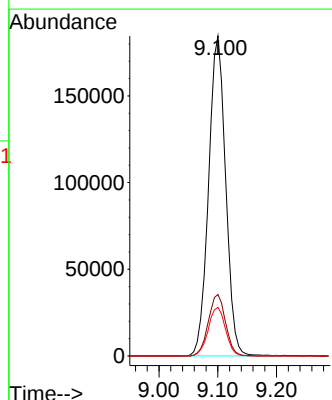
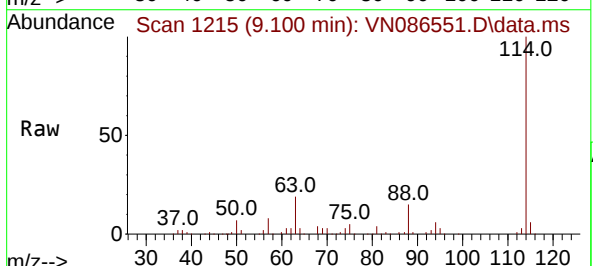
Tgt Ion: 114 Resp: 372519

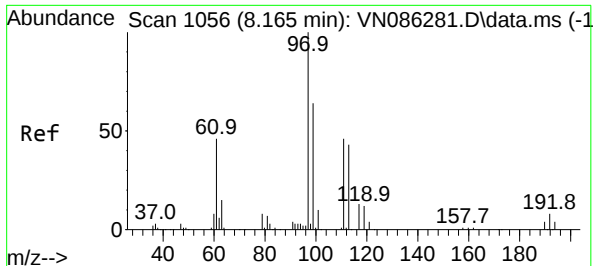
Ion Ratio Lower Upper

114 100

63 19.2 0.0 42.6

88 15.2 0.0 31.8





#35

Dibromofluoromethane

Concen: 60.937 ug/l

RT: 8.165 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086551.D

Acq: 08 May 2025 17:26

Instrument :

MSVOA_N

ClientSampleId :

PB167895ZHE#09

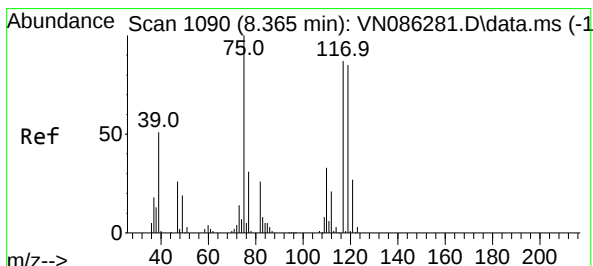
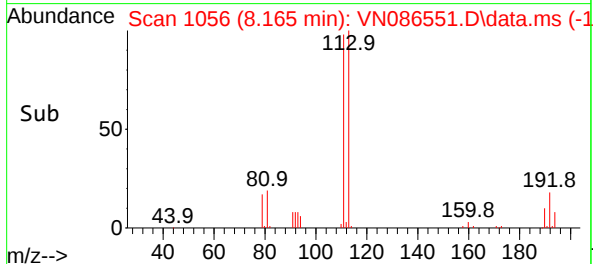
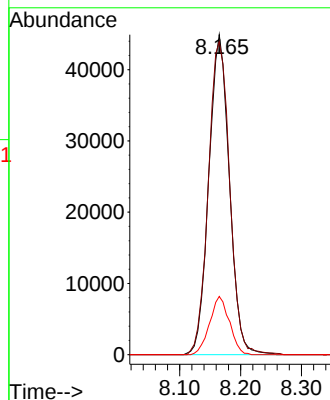
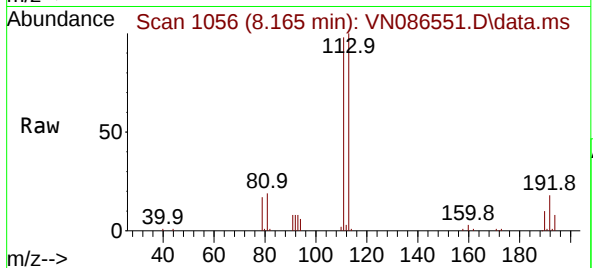
Tgt Ion:113 Resp: 105354

Ion Ratio Lower Upper

113 100

111 101.7 83.4 125.0

192 17.5 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.574 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086551.D

Acq: 08 May 2025 17:26

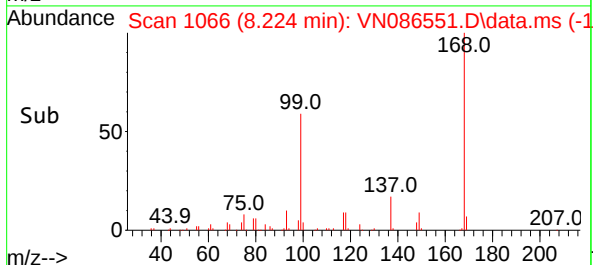
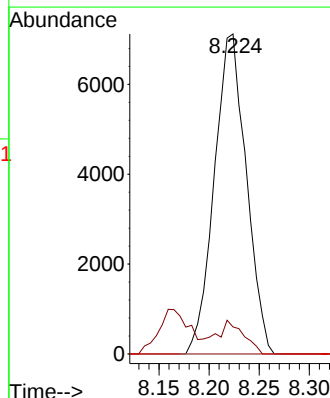
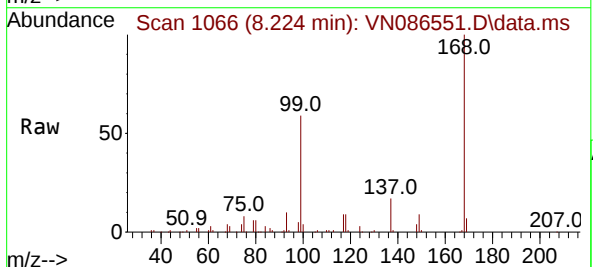
Tgt Ion: 75 Resp: 15794

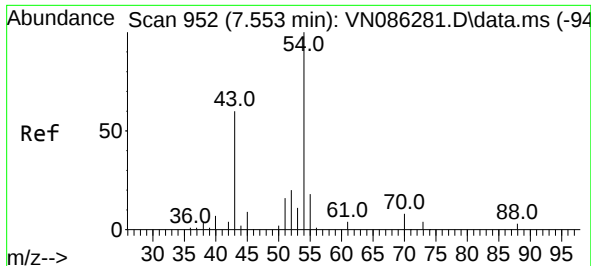
Ion Ratio Lower Upper

75 100

110 8.9 16.8 50.4#

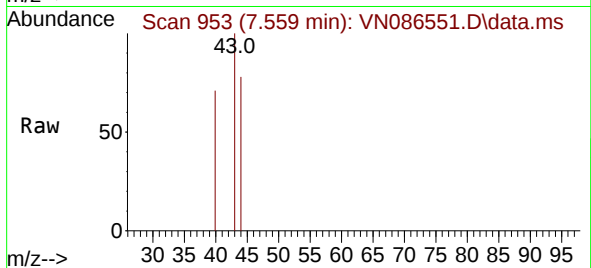
77 0.0 24.9 37.3#



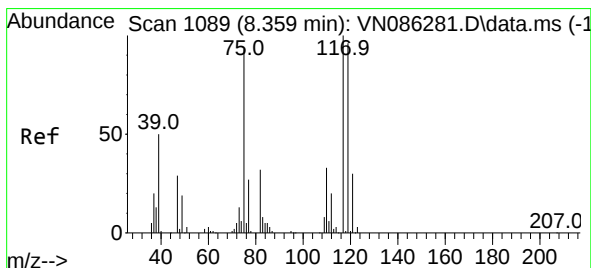
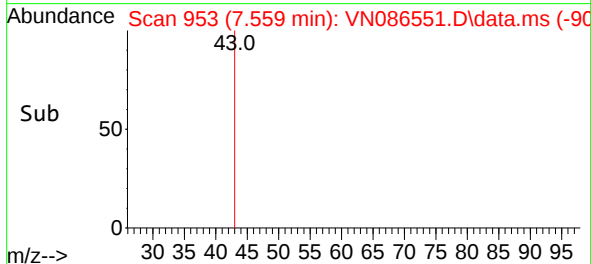
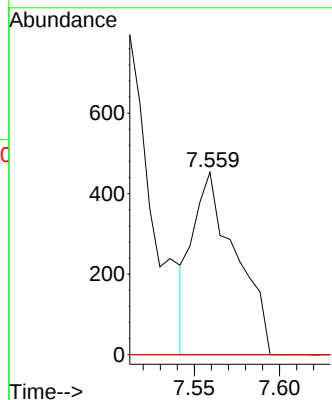


#37
Ethyl Acetate
Concen: 0.219 ug/l
RT: 7.559 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN086551.D
Acq: 08 May 2025 17:26

Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#09

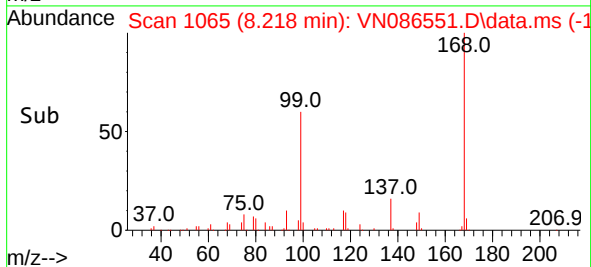
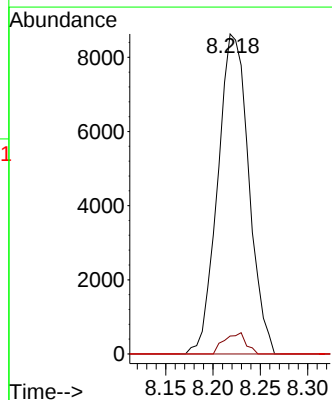
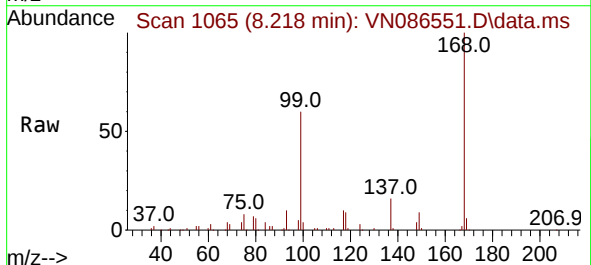


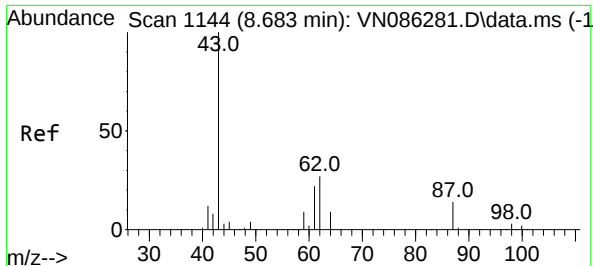
Tgt Ion: 43 Resp: 798
Ion Ratio Lower Upper
43 100
61 0.0 11.1 16.7#
70 0.0 9.2 13.8#



#38
Carbon Tetrachloride
Concen: 5.983 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.141 min
Lab File: VN086551.D
Acq: 08 May 2025 17:26

Tgt Ion: 117 Resp: 19675
Ion Ratio Lower Upper
117 100
119 5.6 76.8 115.2#
121 0.0 23.8 35.8#

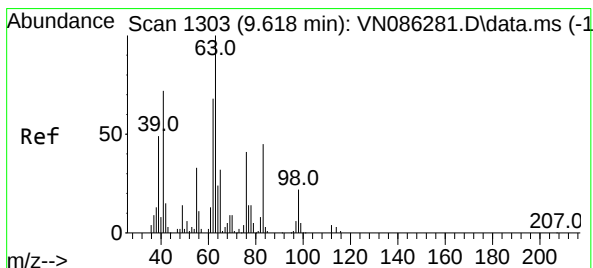
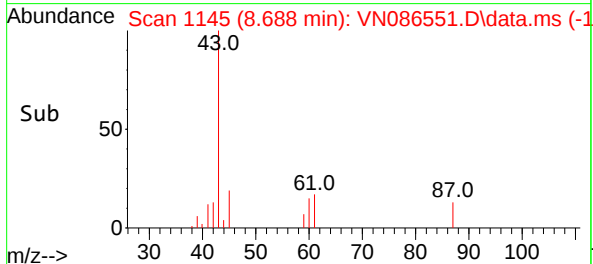
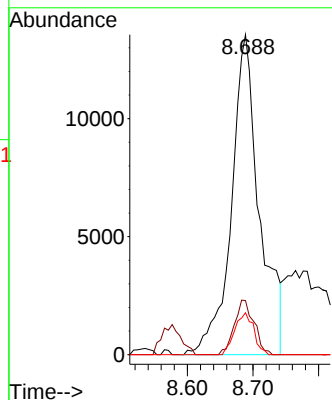
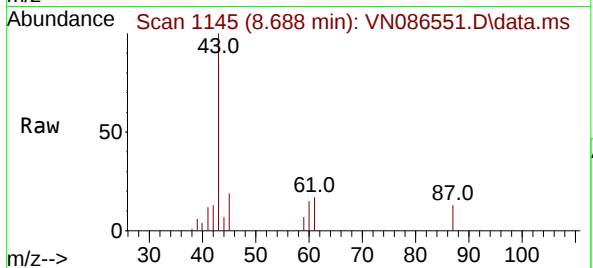




#43
Isopropyl Acetate
Concen: 4.377 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN086551.D
Acq: 08 May 2025 17:26

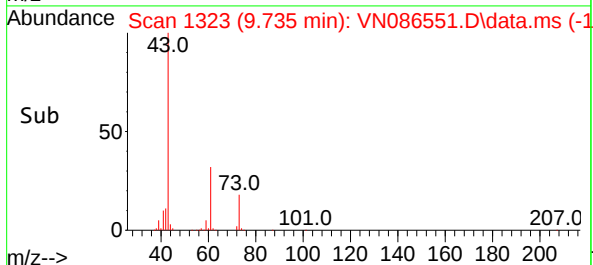
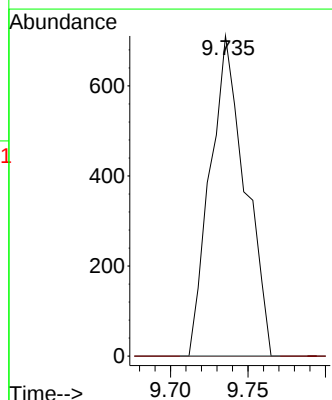
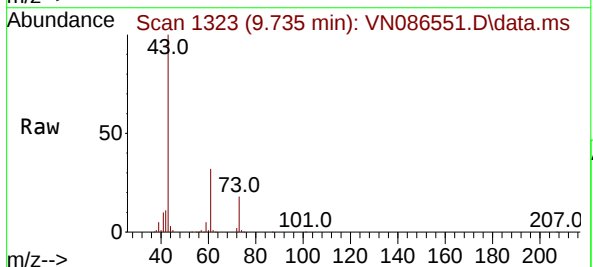
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#09

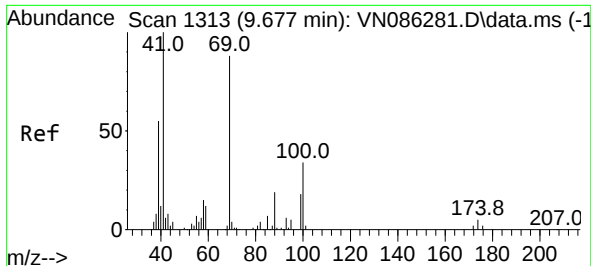
Tgt Ion: 43 Resp: 40213
Ion Ratio Lower Upper
43 100
61 12.0 20.5 30.7#
87 8.9 10.5 15.7#



#45
1,2-Dichloropropane
Concen: 0.413 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.118 min
Lab File: VN086551.D
Acq: 08 May 2025 17:26

Tgt Ion: 63 Resp: 1119
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.2#





#48

Methyl methacrylate

Concen: 22.945 ug/l

RT: 9.735 min Scan# 1

Delta R.T. 0.059 min

Lab File: VN086551.D

Acq: 08 May 2025 17:26

Instrument :

MSVOA_N

ClientSampleId :

PB167895ZHE#09

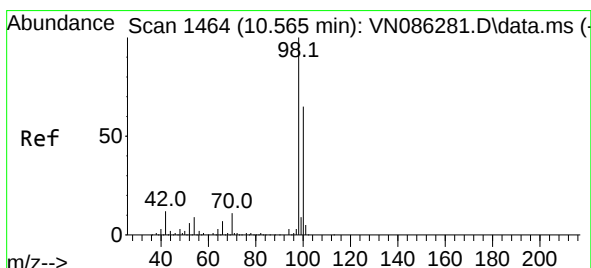
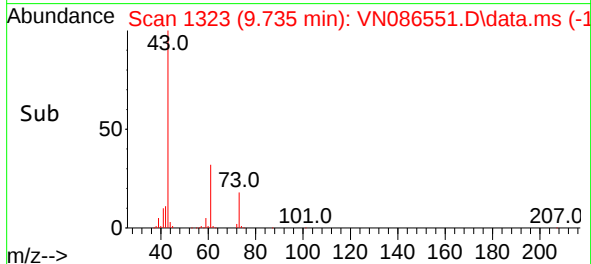
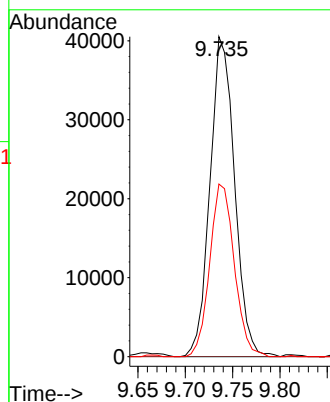
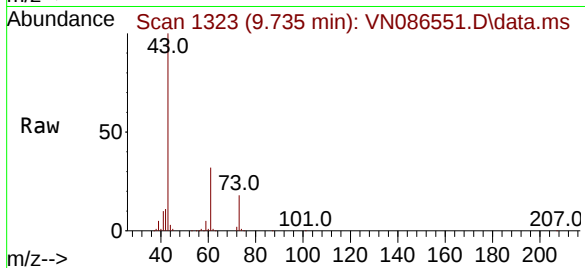
Tgt Ion: 41 Resp: 73255

Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 54.0 45.2 67.8



#50

Toluene-d8

Concen: 51.124 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN086551.D

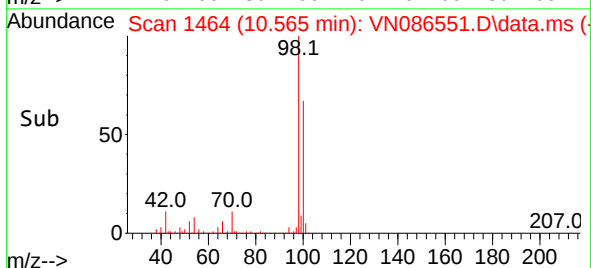
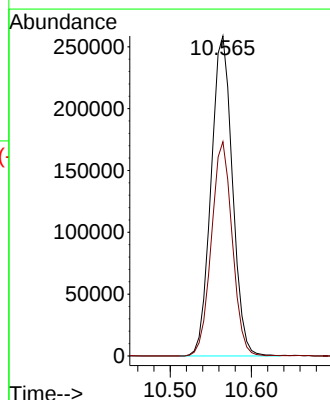
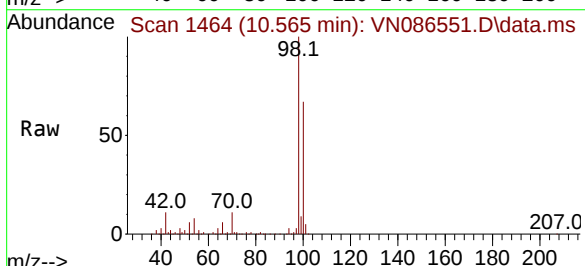
Acq: 08 May 2025 17:26

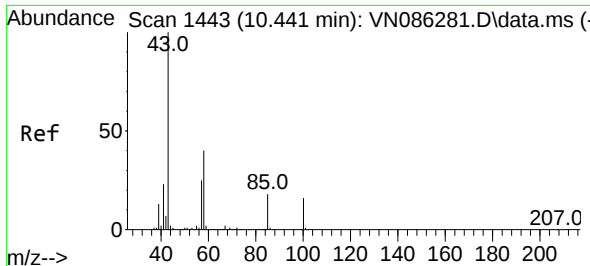
Tgt Ion: 98 Resp: 472392

Ion Ratio Lower Upper

98 100

100 65.4 52.5 78.7

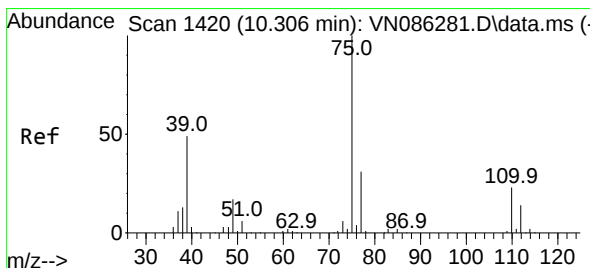
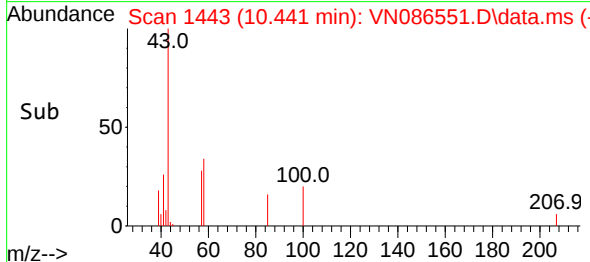
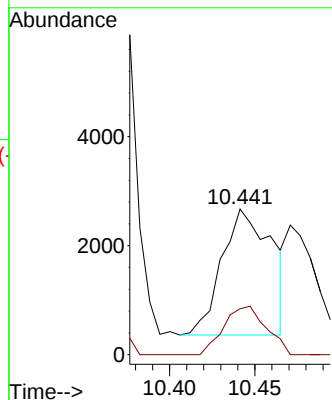
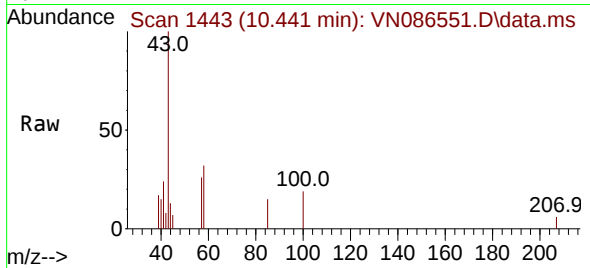




#51
4-Methyl-2-Pentanone
Concen: 1.267 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086551.D
Acq: 08 May 2025 17:26

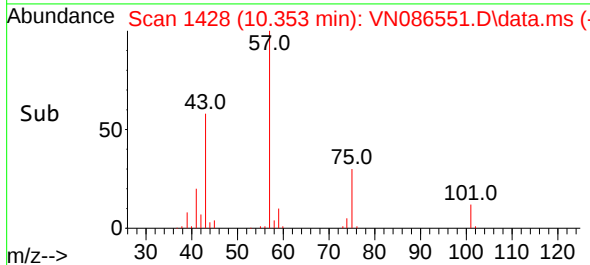
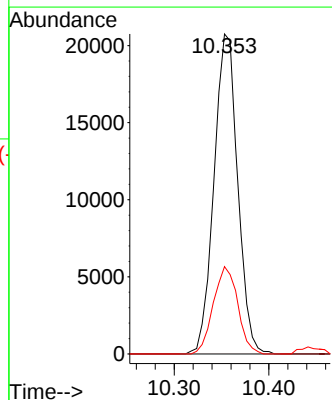
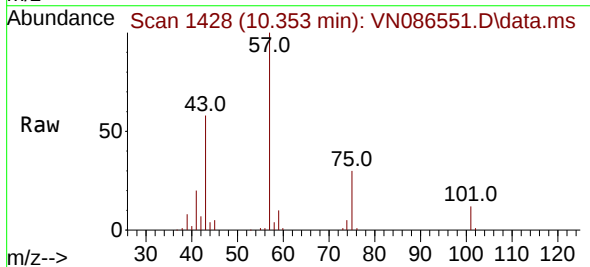
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#09

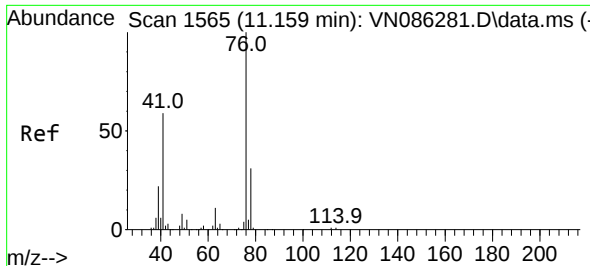
Tgt Ion: 43 Resp: 4715
Ion Ratio Lower Upper
43 100
58 32.6 32.2 48.4



#54
cis-1,3-Dichloropropene
Concen: 7.888 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN086551.D
Acq: 08 May 2025 17:26

Tgt Ion: 75 Resp: 36045
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#
39 27.3 39.3 58.9#





#57

1,3-Dichloropropane

Concen: 0.820 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086551.D

Acq: 08 May 2025 17:26

Instrument :

MSVOA_N

ClientSampleId :

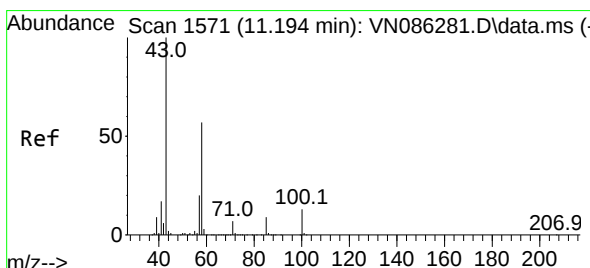
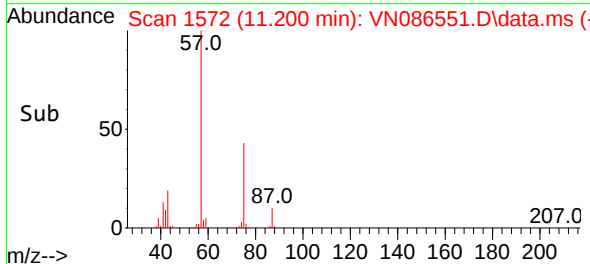
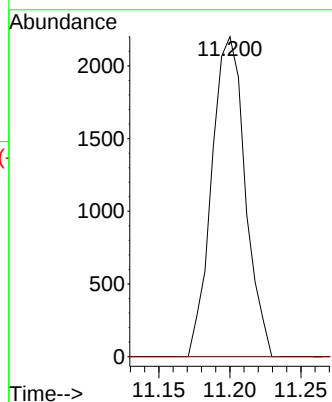
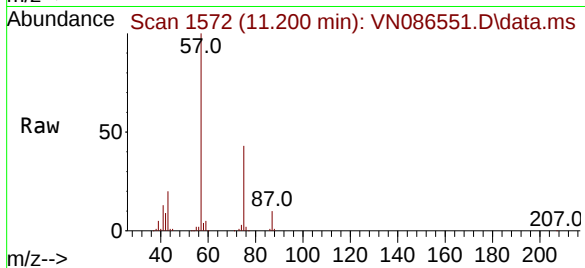
PB167895ZHE#09

Tgt Ion: 76 Resp: 3612

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 21.849 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086551.D

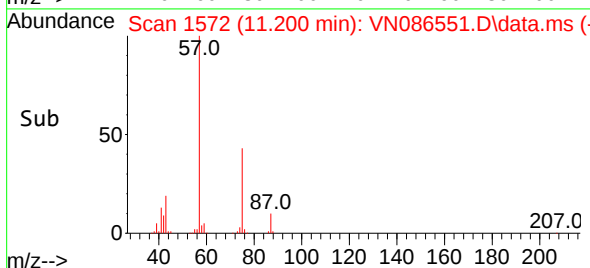
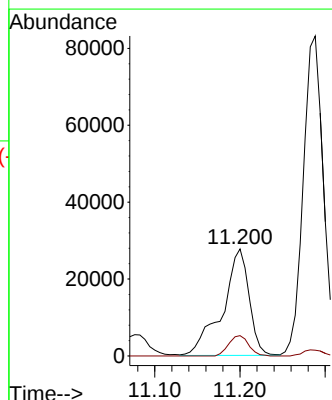
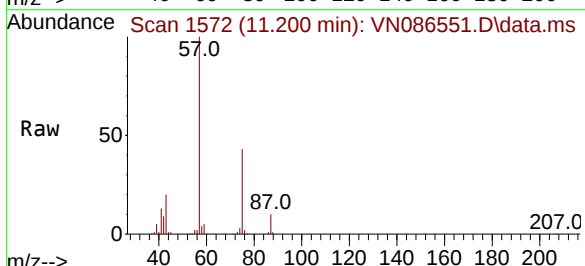
Acq: 08 May 2025 17:26

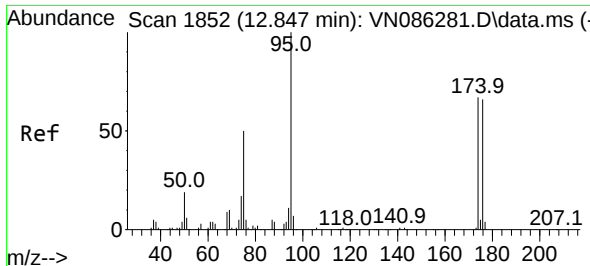
Tgt Ion: 43 Resp: 60332

Ion Ratio Lower Upper

43 100

58 14.3 28.3 85.0#

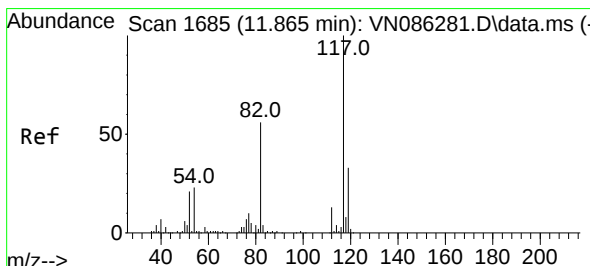
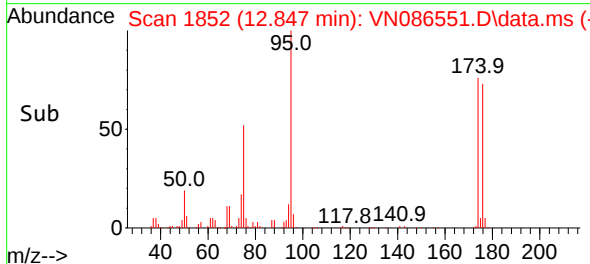
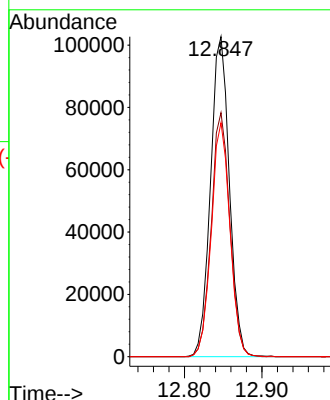
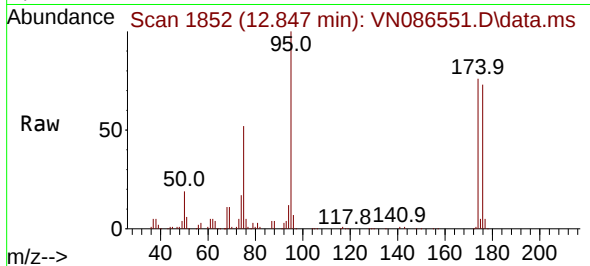




#62
4-Bromofluorobenzene
Concen: 51.484 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086551.D
Acq: 08 May 2025 17:26

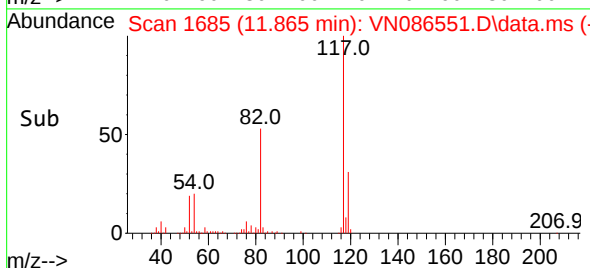
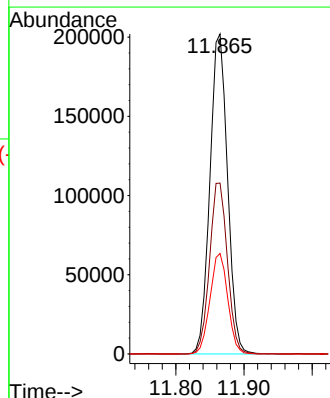
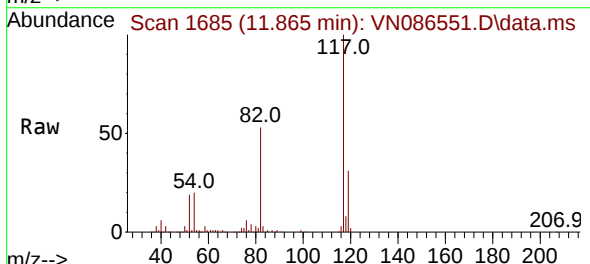
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#09

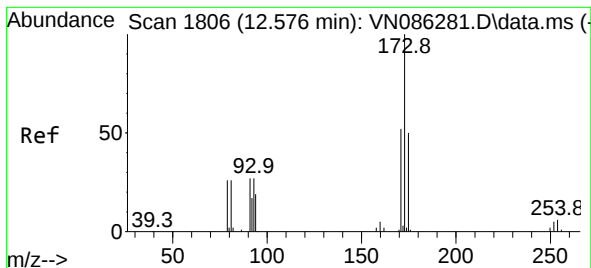
Tgt Ion: 95 Resp: 173516
Ion Ratio Lower Upper
95 100
174 75.4 0.0 133.4
176 72.2 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086551.D
Acq: 08 May 2025 17:26

Tgt Ion: 117 Resp: 363723
Ion Ratio Lower Upper
117 100
82 53.4 44.7 67.1
119 31.4 26.4 39.6





#71

Bromoform

Concen: 0.410 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.271 min

Lab File: VN086551.D

Acq: 08 May 2025 17:26

Instrument :

MSVOA_N

ClientSampleId :

PB167895ZHE#09

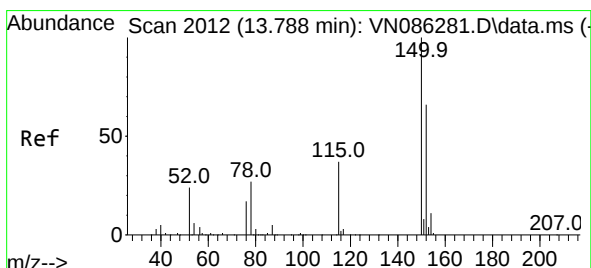
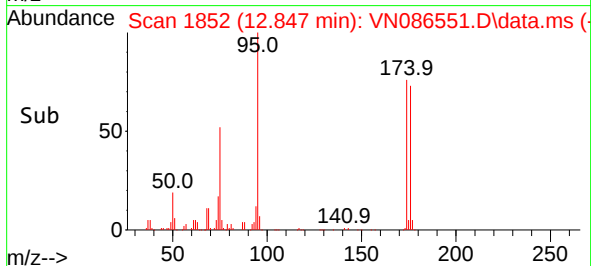
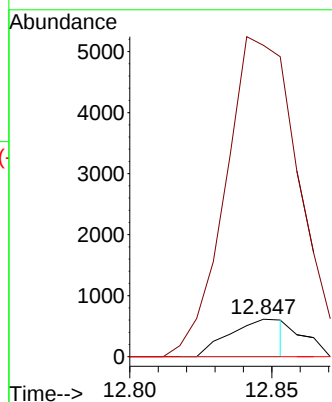
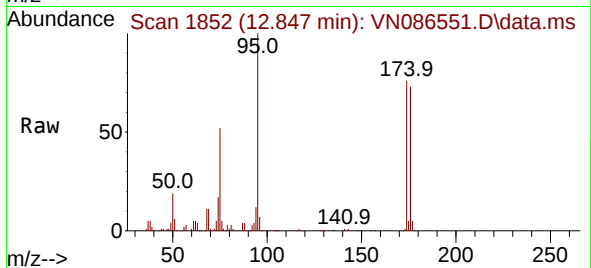
Tgt Ion:173 Resp: 827

Ion Ratio Lower Upper

173 100

175 892.9 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# 2012

Delta R.T. 0.000 min

Lab File: VN086551.D

Acq: 08 May 2025 17:26

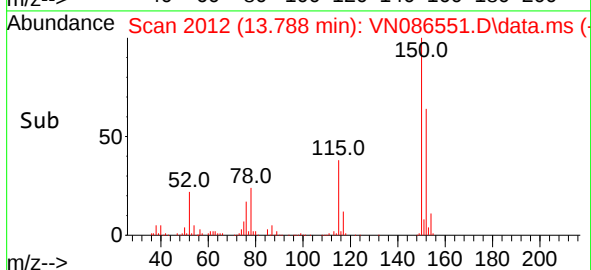
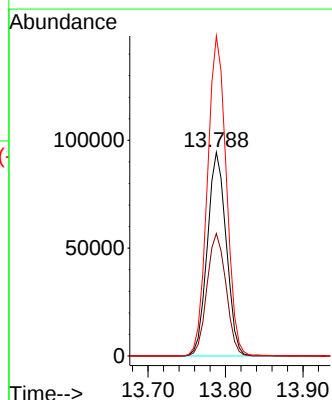
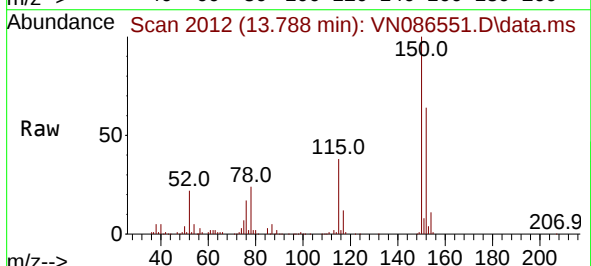
Tgt Ion:152 Resp: 159774

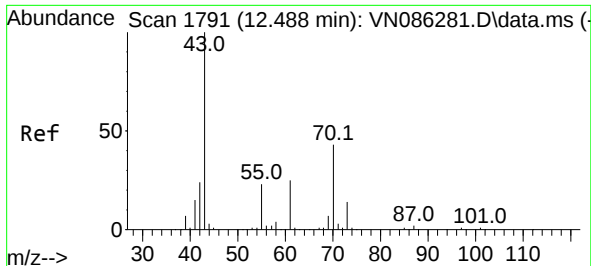
Ion Ratio Lower Upper

152 100

115 60.6 31.9 95.9

150 157.2 0.0 352.0

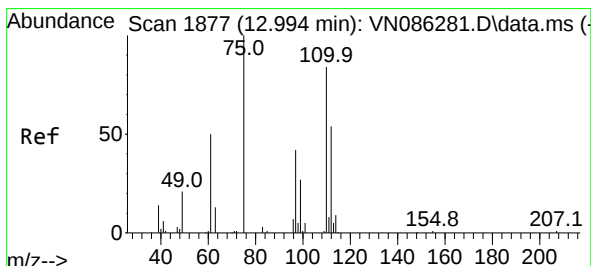
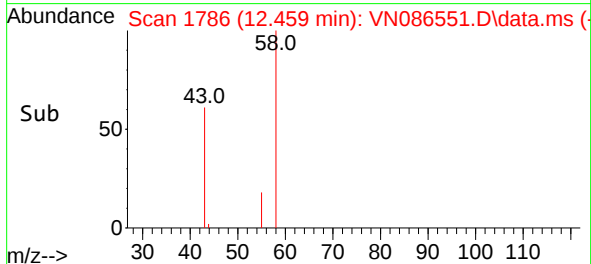
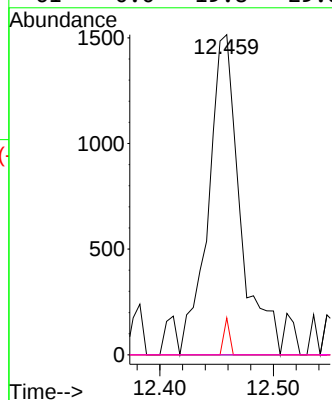
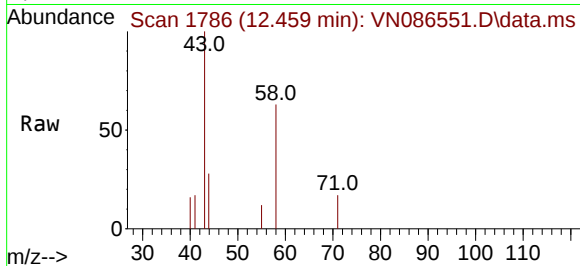




#74
N-amy1 acetate
Concen: 0.453 ug/l
RT: 12.459 min Scan# 1786
Delta R.T. -0.029 min
Lab File: VN086551.D
Acq: 08 May 2025 17:26

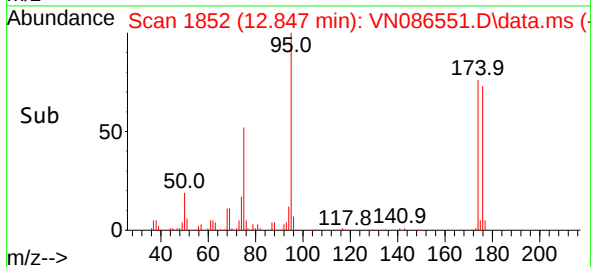
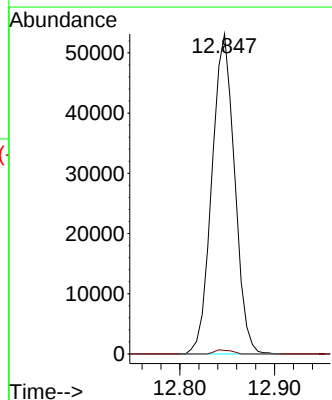
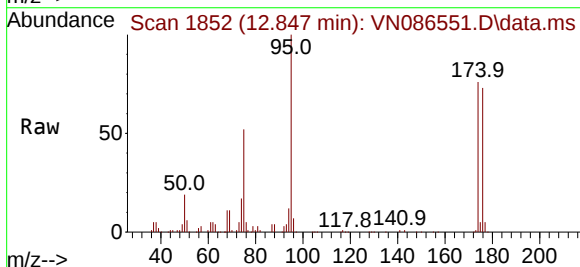
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#09

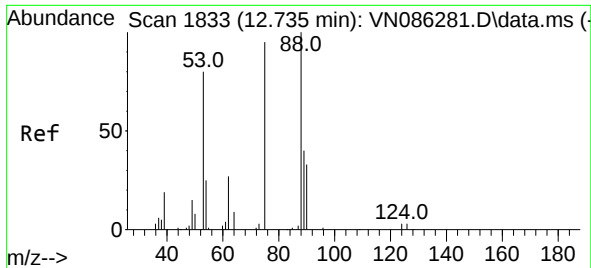
Tgt Ion: 43	Resp:	2950	
Ion	Ratio	Lower	Upper
43	100		
70	0.0	35.0	52.4#
55	2.1	19.0	28.4#
61	0.0	19.8	29.8#



#76
1,2,3-Trichloropropane
Concen: 23.523 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086551.D
Acq: 08 May 2025 17:26

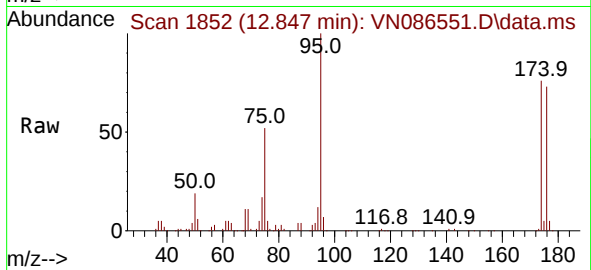
Tgt Ion: 75	Resp:	88692	
Ion Ratio	Lower	Upper	
75 100			
77 1.0	98.8	296.4#	





#81
trans-1,4-Dichloro-2-butene
Concen: 56.494 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN086551.D
Acq: 08 May 2025 17:26

Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#09



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

