

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093025\
 Data File : VN087994.D
 Acq On : 30 Sep 2025 11:49
 Operator : JC\MD
 Sample : Q3188-01DL 50X
 Misc : 1.14g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 4135DL

Quant Time: Oct 01 04:40:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N092325W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 05:05:30 2025
 Response via : Initial Calibration

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

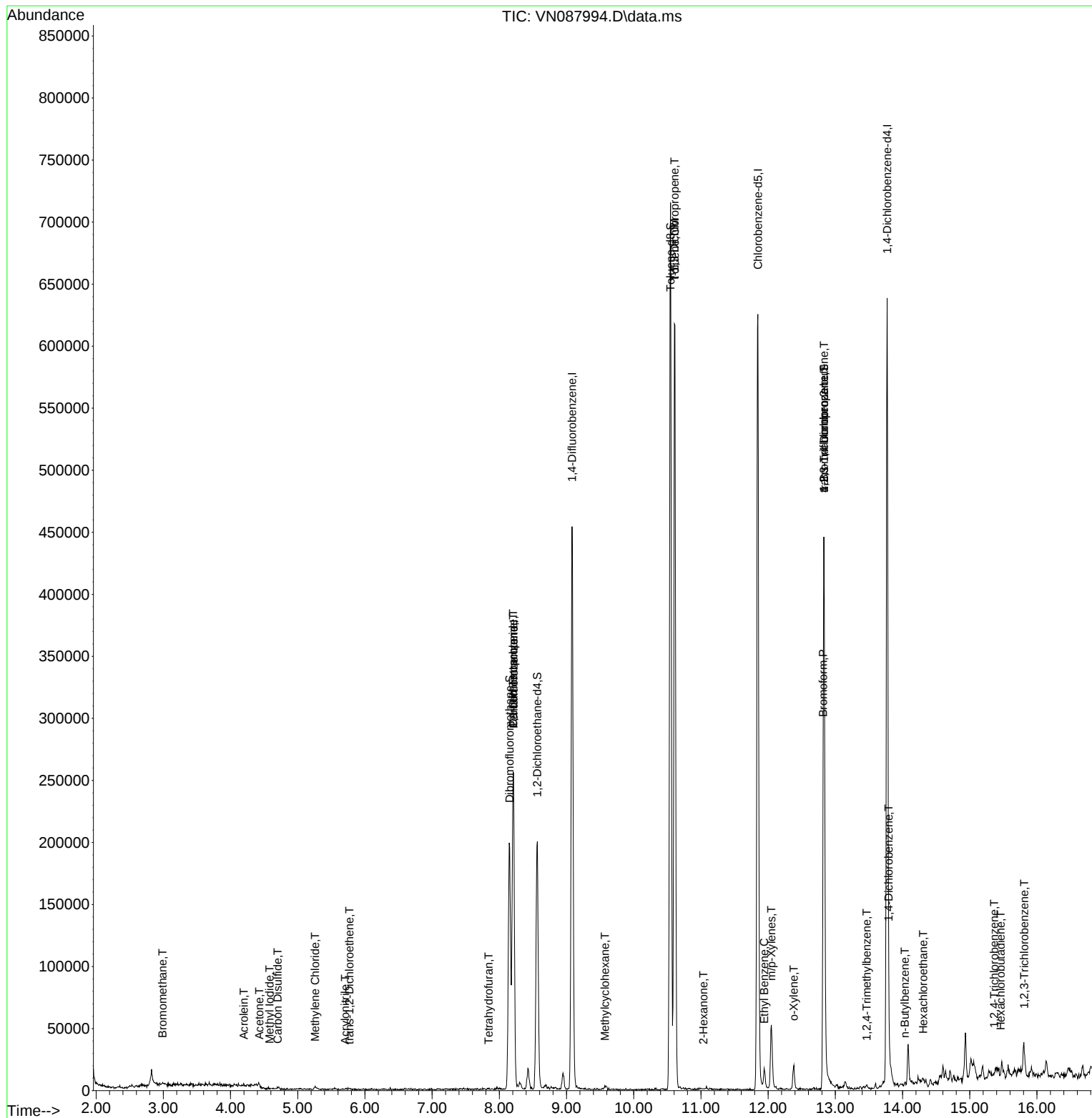
Internal Standards						
1) Pentafluorobenzene	8.212	168	173998	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	385160	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	366638	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	173886	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	168378	57.501	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 115.000%			
35) Dibromofluoromethane	8.153	113	140853	50.368	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.740%			
50) Toluene-d8	10.547	98	482859	49.100	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.200%			
62) 4-Bromofluorobenzene	12.829	95	164328	46.748	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 93.500%			
Target Compounds						Qvalue
5) Bromomethane	2.989	94	771	0.591	ug/l	94
10) Methyl Iodide	4.583	142	468	0.287	ug/l #	84
13) Acrolein	4.201	56	229	0.423	ug/l #	12
15) Acrylonitrile	5.706	53	351	0.265	ug/l #	85
16) Acetone	4.430	43	2061	1.711	ug/l	89
17) Carbon Disulfide	4.700	76	1843	0.323	ug/l #	76
20) Methylene Chloride	5.259	84	2041	0.837	ug/l #	61
21) trans-1,2-Dichloroethene	5.771	96	477	0.213	ug/l #	47
29) Tetrahydrofuran	7.841	42	352	0.299	ug/l #	45
36) 1,1-Dichloropropene	8.206	75	15188	4.517	ug/l #	49
38) Carbon Tetrachloride	8.206	117	18966	4.915	ug/l #	19
39) Methylcyclohexane	9.571	83	960	0.259	ug/l #	46
52) Toluene	10.612	92	272478	38.999	ug/l	98
53) t-1,3-Dichloropropene	10.606	75	4029	0.911	ug/l #	1
59) 2-Hexanone	11.035	43	651	0.227	ug/l	99
67) Ethyl Benzene	11.941	91	10447	0.802	ug/l	96
68) m/p-Xylenes	12.047	106	15890	3.191	ug/l	93
69) o-Xylene	12.382	106	5699	1.191	ug/l	99
71) Bromoform	12.818	173	599	0.262	ug/l #	1
76) 1,2,3-Trichloropropane	12.829	75	87045	25.395	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	87045	70.517	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.465	105	2318	0.242	ug/l	89
88) 1,4-Dichlorobenzene	13.794	146	1685	0.293	ug/l #	33
89) n-Butylbenzene	14.035	91	3429	0.370	ug/l	82
90) Hexachloroethane	14.306	117	542	0.265	ug/l #	51
93) 1,2,4-Trichlorobenzene	15.365	180	1268	0.398	ug/l #	51
94) Hexachlorobutadiene	15.459	225	559	0.477	ug/l #	40
96) 1,2,3-Trichlorobenzene	15.812	180	1354	0.437	ug/l #	71

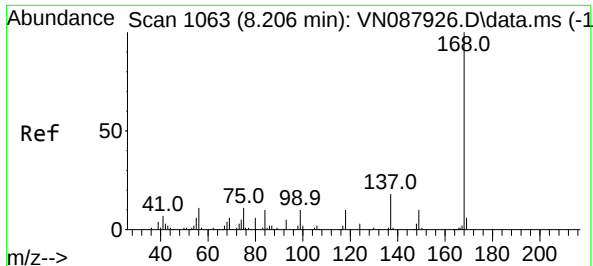
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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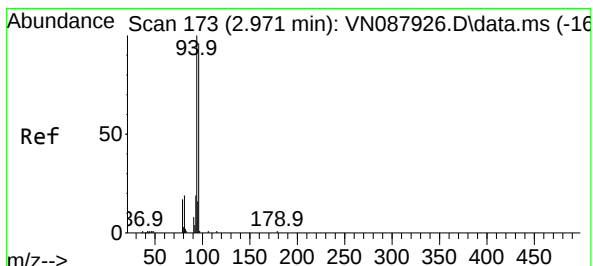
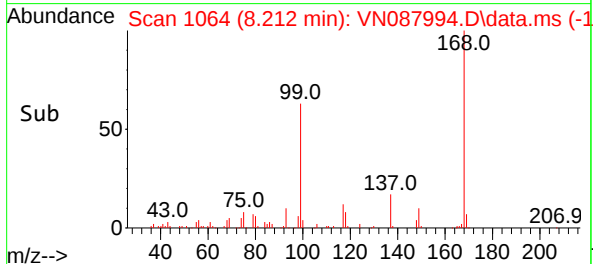
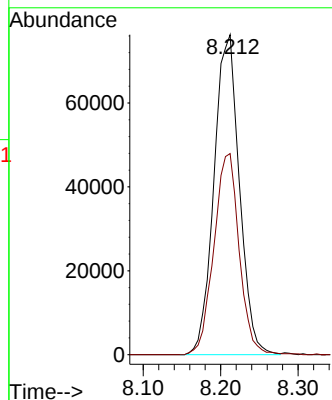
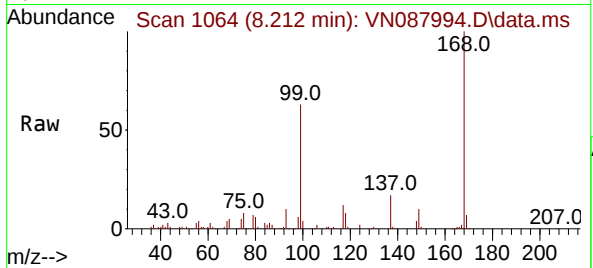




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. 0.006 min
Lab File: VN087994.D
Acq: 30 Sep 2025 11:49

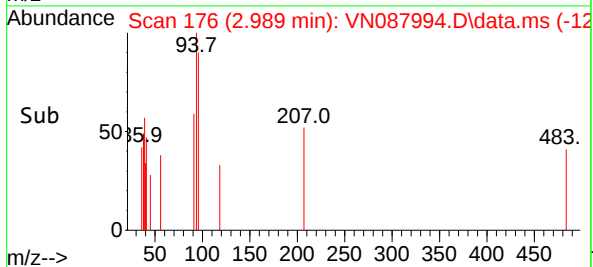
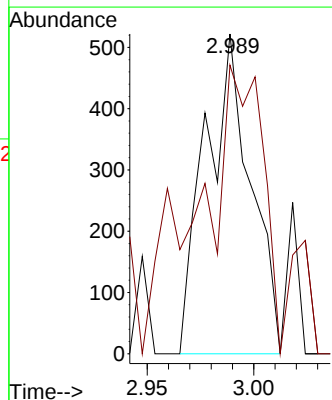
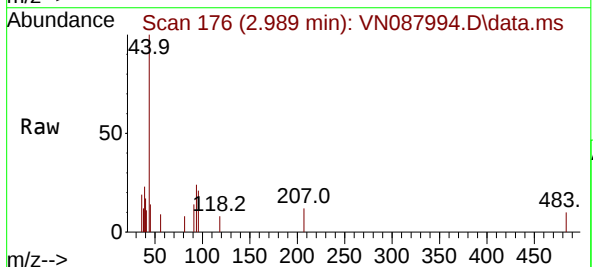
Instrument :
MSVOA_N
ClientSampleId :
4135DL

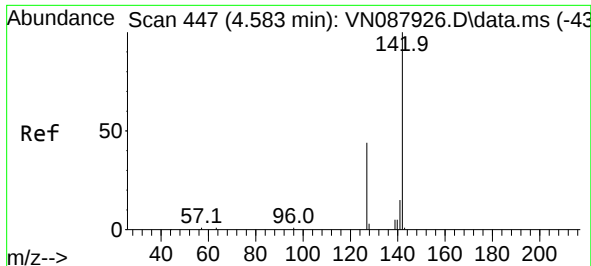
Tgt Ion:168 Resp: 173998
Ion Ratio Lower Upper
168 100
99 62.9 52.2 78.2



#5
Bromomethane
Concen: 0.591 ug/l
RT: 2.989 min Scan# 176
Delta R.T. 0.018 min
Lab File: VN087994.D
Acq: 30 Sep 2025 11:49

Tgt Ion: 94 Resp: 771
Ion Ratio Lower Upper
94 100
96 90.2 76.8 115.2

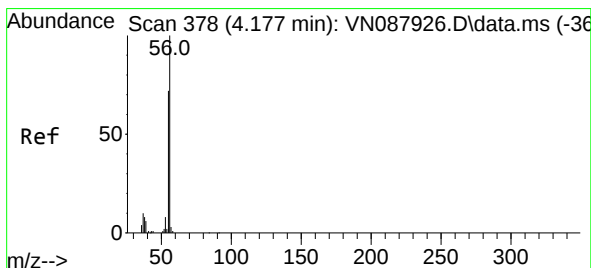
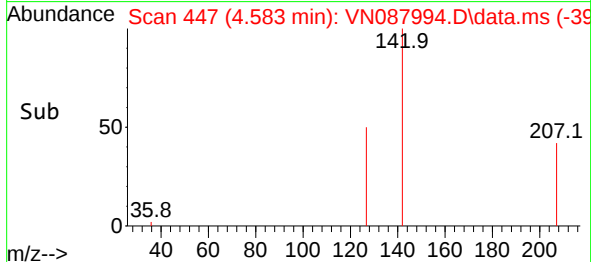
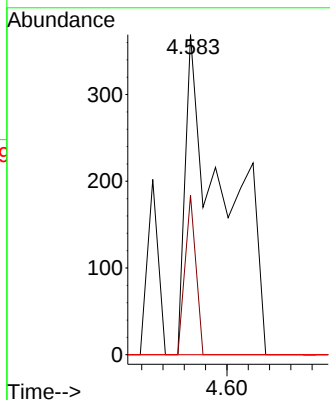
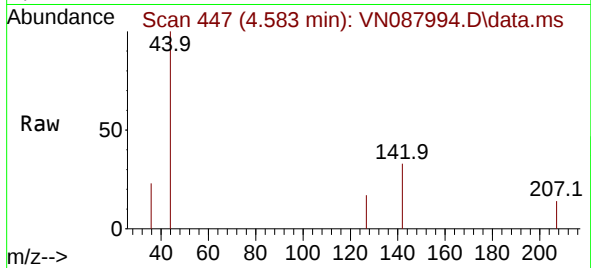




#10
Methyl Iodide
Concen: 0.287 ug/l
RT: 4.583 min Scan# 447
Delta R.T. 0.000 min
Lab File: VN087994.D
Acq: 30 Sep 2025 11:49

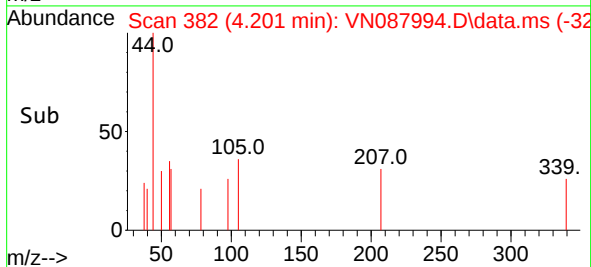
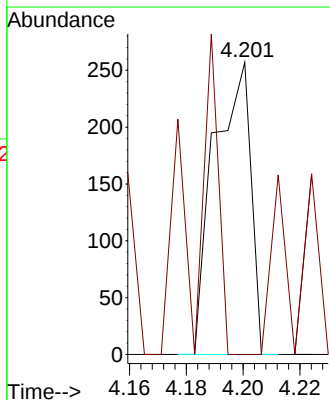
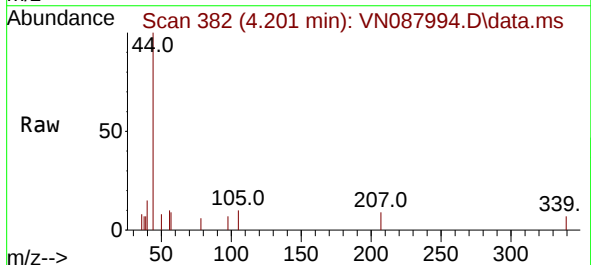
Instrument :
MSVOA_N
ClientSampleId :
4135DL

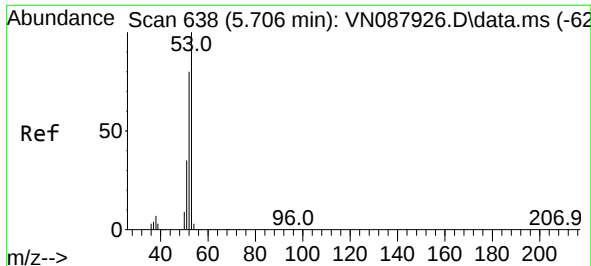
Tgt Ion:142 Resp: 468
Ion Ratio Lower Upper
142 100
127 49.9 35.3 52.9
141 0.0 11.8 17.8#



#13
Acrolein
Concen: 0.423 ug/l
RT: 4.201 min Scan# 382
Delta R.T. 0.024 min
Lab File: VN087994.D
Acq: 30 Sep 2025 11:49

Tgt Ion: 56 Resp: 229
Ion Ratio Lower Upper
56 100
55 0.0 59.3 88.9#

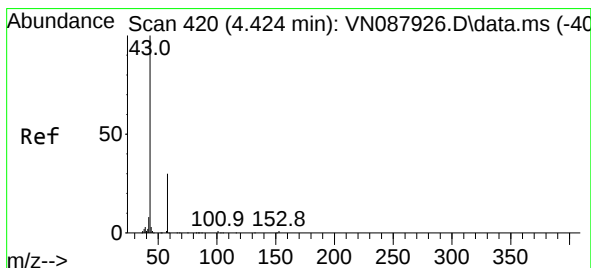
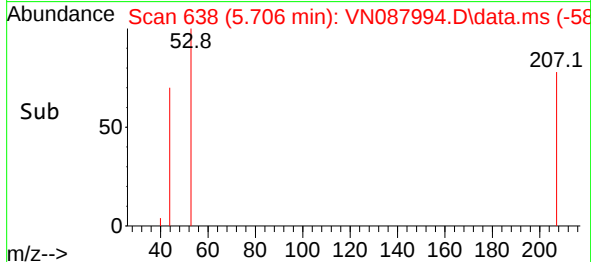
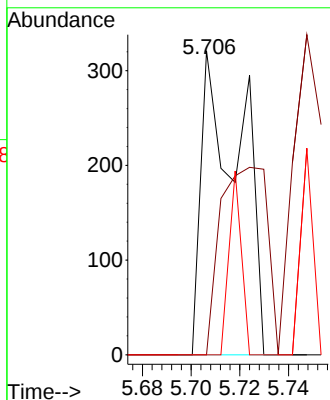
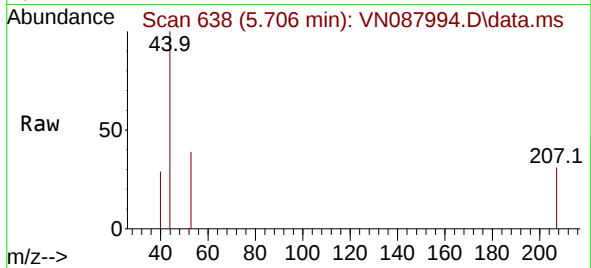




#15
Acrylonitrile
Concen: 0.265 ug/l
RT: 5.706 min Scan# 61
Delta R.T. 0.000 min
Lab File: VN087994.D
Acq: 30 Sep 2025 11:49

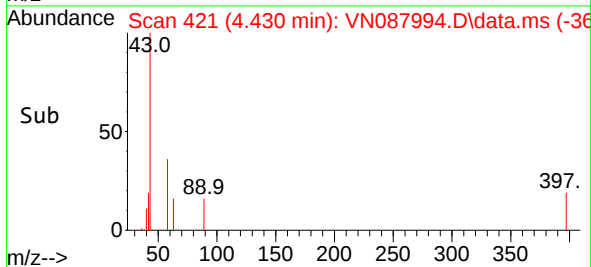
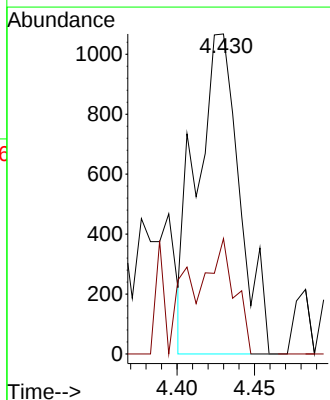
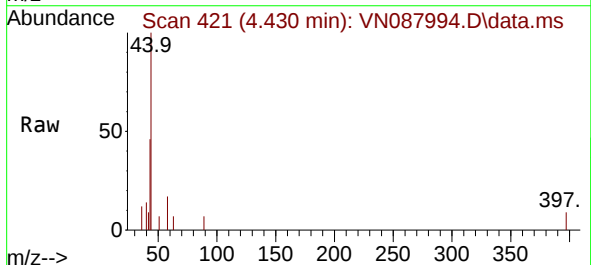
Instrument :
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ClientSampleId :
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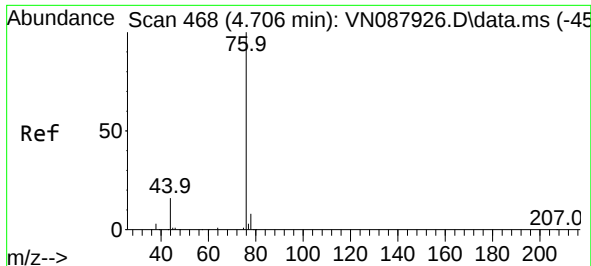
Tgt Ion: 53 Resp: 351
Ion Ratio Lower Upper
53 100
52 75.2 66.6 99.8
51 19.4 29.0 43.4#



#16
Acetone
Concen: 1.711 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN087994.D
Acq: 30 Sep 2025 11:49

Tgt Ion: 43 Resp: 2061
Ion Ratio Lower Upper
43 100
58 36.0 24.1 36.1

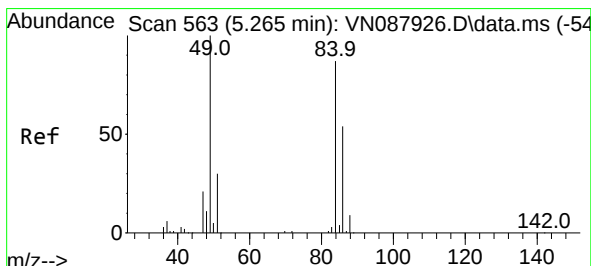
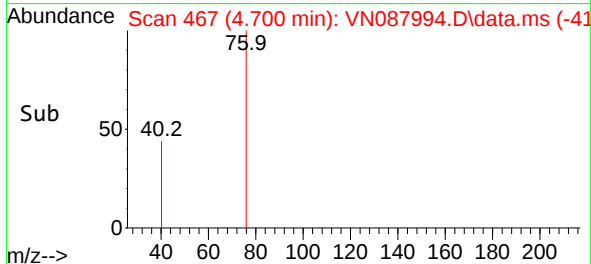
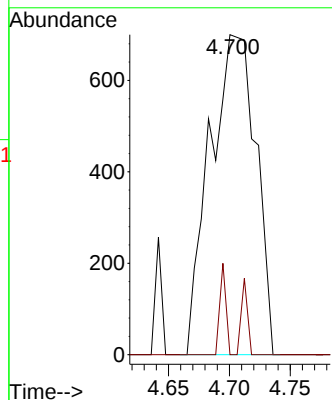
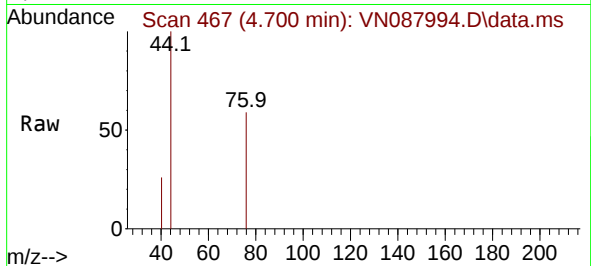




#17
Carbon Disulfide
Concen: 0.323 ug/l
RT: 4.700 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN087994.D
Acq: 30 Sep 2025 11:49

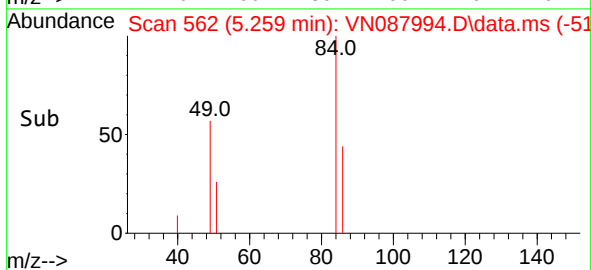
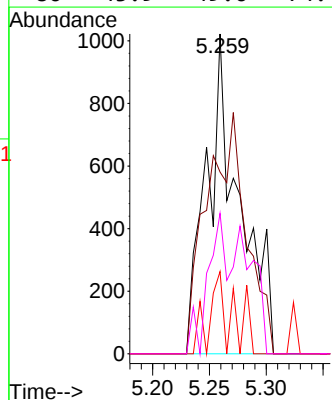
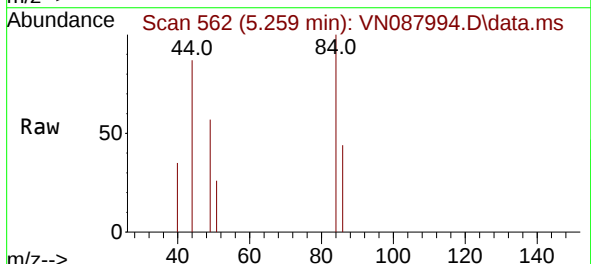
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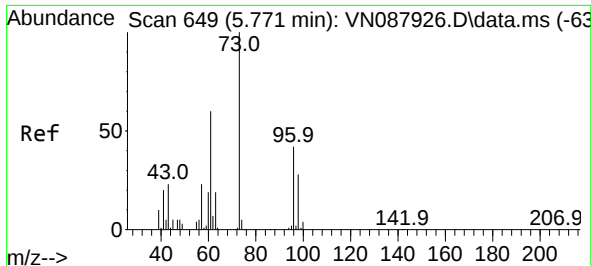
Tgt Ion: 76 Resp: 1843
Ion Ratio Lower Upper
76 100
78 0.0 6.7 10.1#



#20
Methylene Chloride
Concen: 0.837 ug/l
RT: 5.259 min Scan# 562
Delta R.T. -0.006 min
Lab File: VN087994.D
Acq: 30 Sep 2025 11:49

Tgt Ion: 84 Resp: 2041
Ion Ratio Lower Upper
84 100
49 56.8 92.1 138.1#
51 25.7 27.7 41.5#
86 43.9 49.6 74.4#

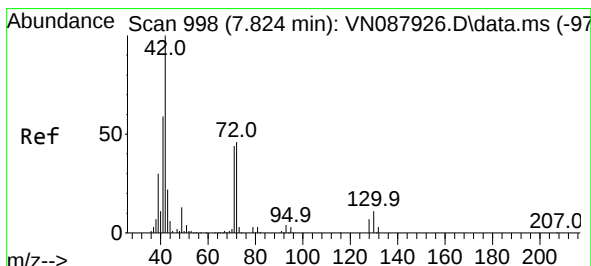
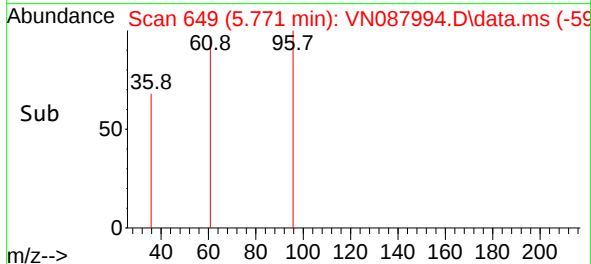
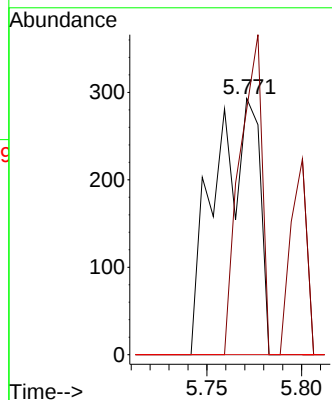
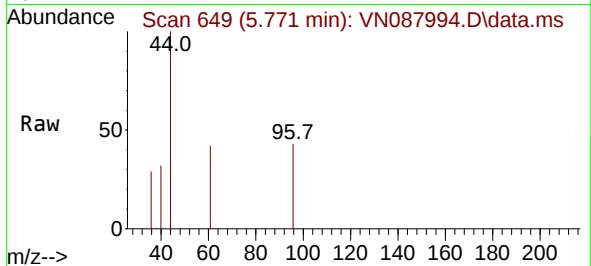




#21
trans-1,2-Dichloroethene
Concen: 0.213 ug/l
RT: 5.771 min Scan# 649
Delta R.T. 0.000 min
Lab File: VN087994.D
Acq: 30 Sep 2025 11:49

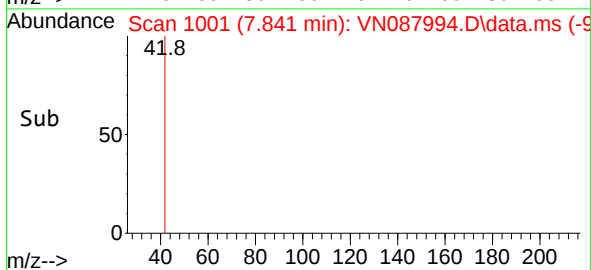
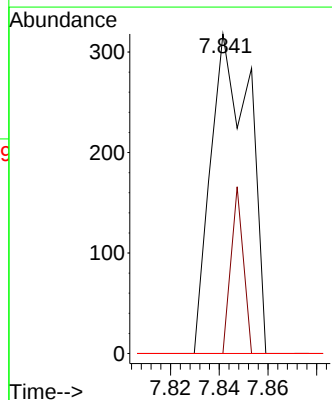
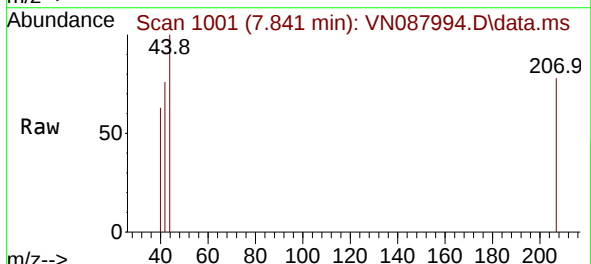
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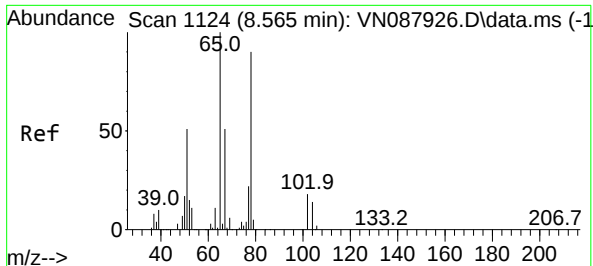
Tgt Ion: 96 Resp: 477
Ion Ratio Lower Upper
96 100
61 95.9 114.4 171.6#
98 0.0 53.6 80.4#



#29
Tetrahydrofuran
Concen: 0.299 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.018 min
Lab File: VN087994.D
Acq: 30 Sep 2025 11:49

Tgt Ion: 42 Resp: 352
Ion Ratio Lower Upper
42 100
72 16.8 36.5 54.7#
71 0.0 33.8 50.8#

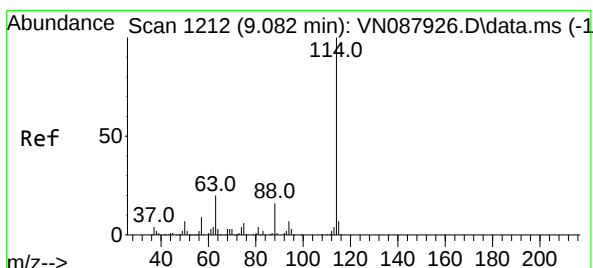
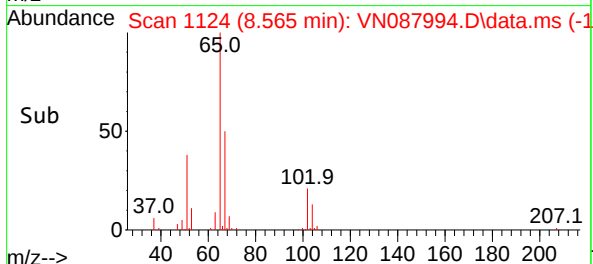
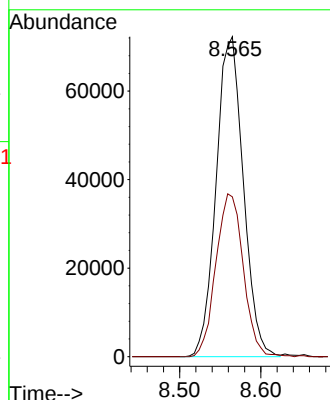
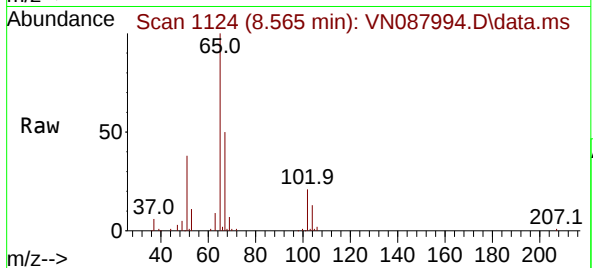




#33
 1,2-Dichloroethane-d4
 Concen: 57.501 ug/l
 RT: 8.565 min Scan# 1124
 Delta R.T. 0.000 min
 Lab File: VN087994.D
 Acq: 30 Sep 2025 11:49

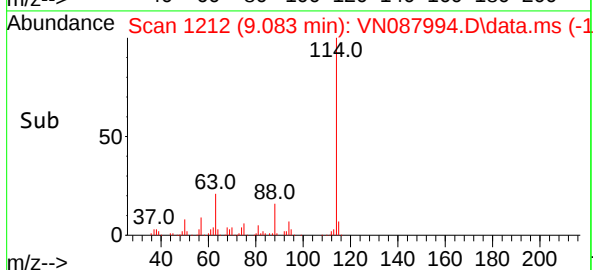
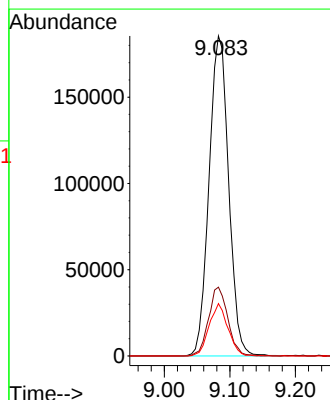
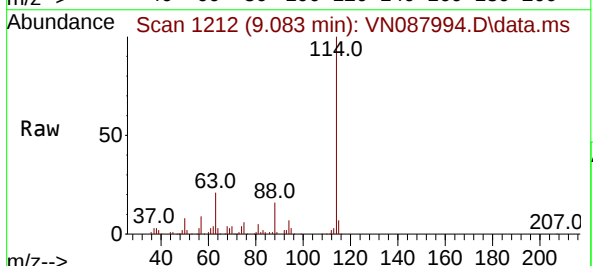
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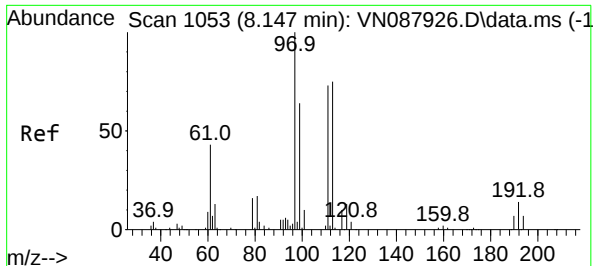
Tgt Ion: 65 Resp: 168378
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.083 min Scan# 1212
 Delta R.T. 0.000 min
 Lab File: VN087994.D
 Acq: 30 Sep 2025 11:49

Tgt Ion: 114 Resp: 385160
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 40.0
 88 16.4 0.0 31.8

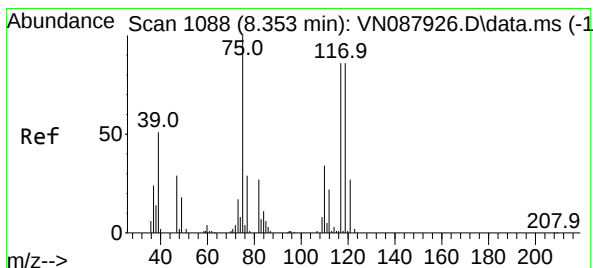
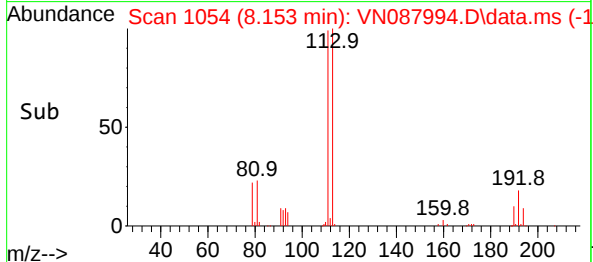
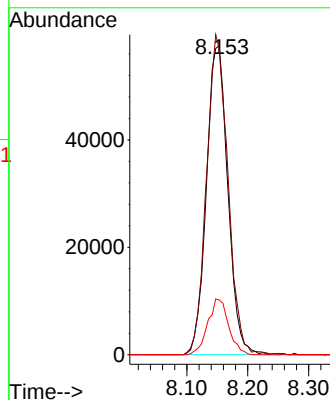
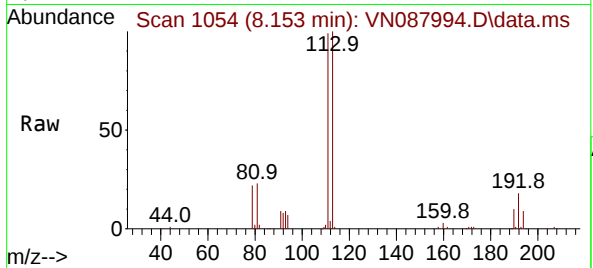




#35
Dibromofluoromethane
Concen: 50.368 ug/l
RT: 8.153 min Scan# 1054
Delta R.T. 0.006 min
Lab File: VN087994.D
Acq: 30 Sep 2025 11:49

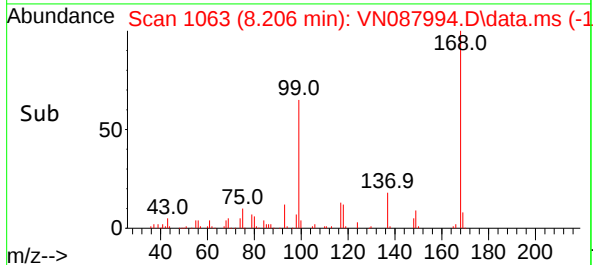
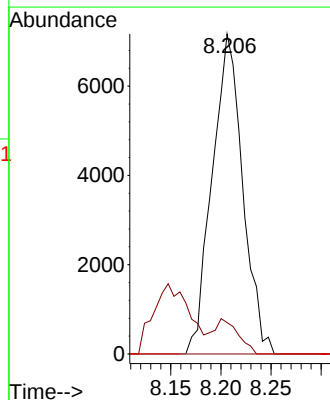
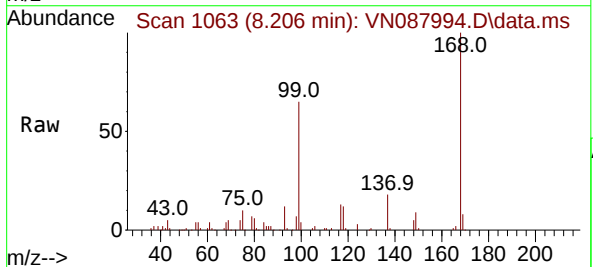
Instrument :
MSVOA_N
ClientSampleId :
4135DL

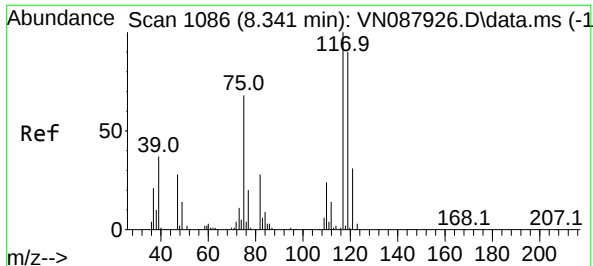
Tgt Ion:113 Resp: 140853
Ion Ratio Lower Upper
113 100
111 103.2 82.2 123.2
192 17.5 14.2 21.2



#36
1,1-Dichloropropene
Concen: 4.517 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.147 min
Lab File: VN087994.D
Acq: 30 Sep 2025 11:49

Tgt Ion: 75 Resp: 15188
Ion Ratio Lower Upper
75 100
110 8.1 17.1 51.3#
77 0.0 24.8 37.2#

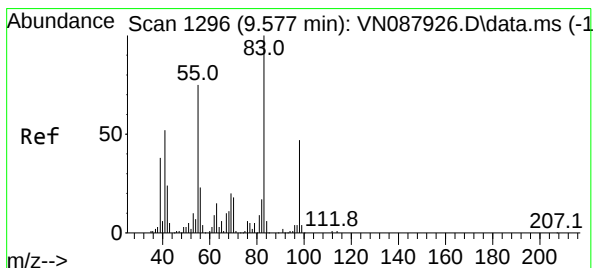
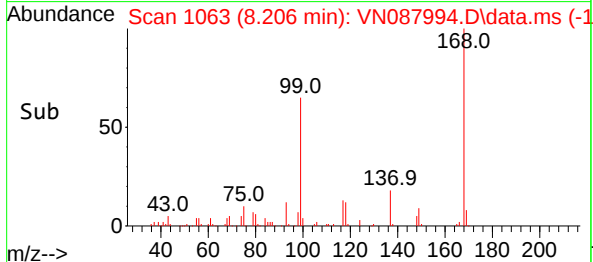
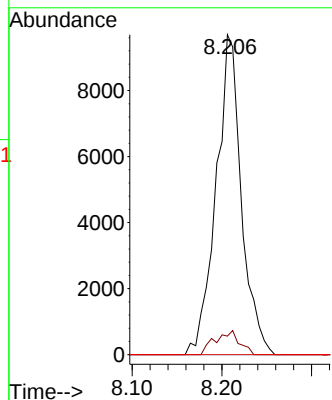
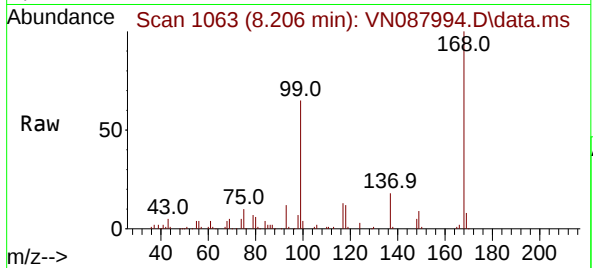




#38
Carbon Tetrachloride
Concen: 4.915 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.135 min
Lab File: VN087994.D
Acq: 30 Sep 2025 11:49

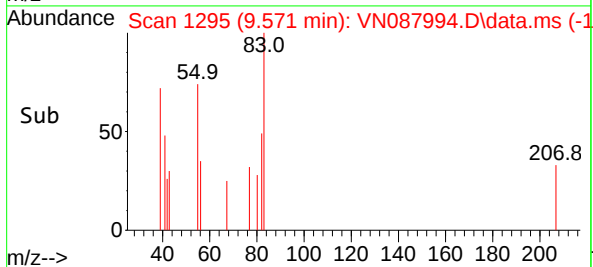
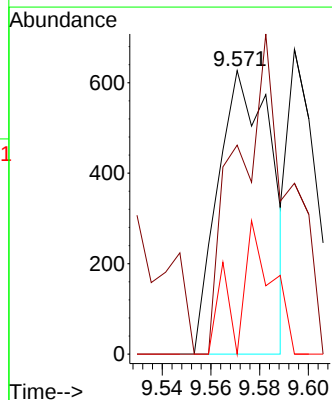
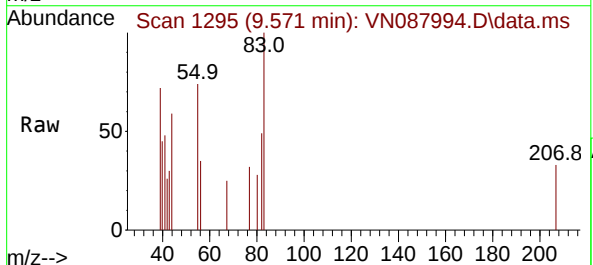
Instrument :
MSVOA_N
ClientSampleId :
4135DL

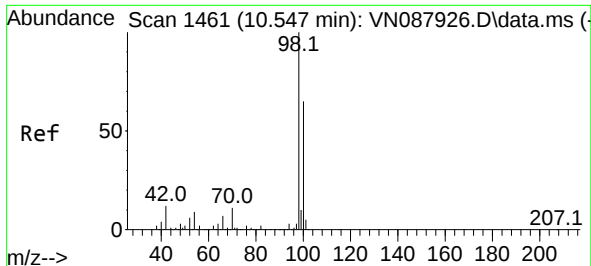
Tgt Ion:117 Resp: 18966
Ion Ratio Lower Upper
117 100
119 5.8 72.1 108.1#
121 0.0 24.6 36.8#



#39
Methylcyclohexane
Concen: 0.259 ug/l
RT: 9.571 min Scan# 1295
Delta R.T. -0.006 min
Lab File: VN087994.D
Acq: 30 Sep 2025 11:49

Tgt Ion: 83 Resp: 960
Ion Ratio Lower Upper
83 100
55 38.0 59.9 89.9#
98 0.0 37.4 56.2#

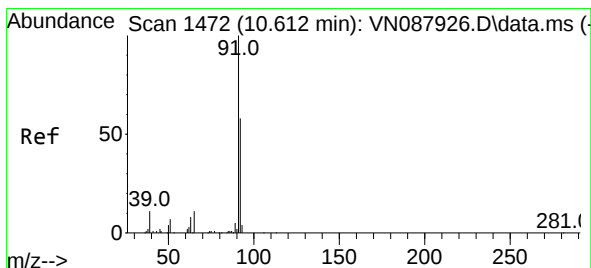
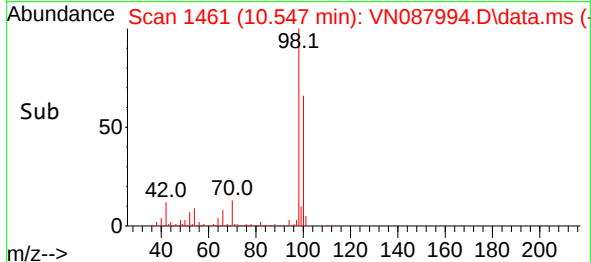
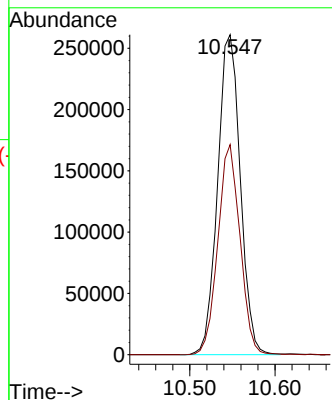
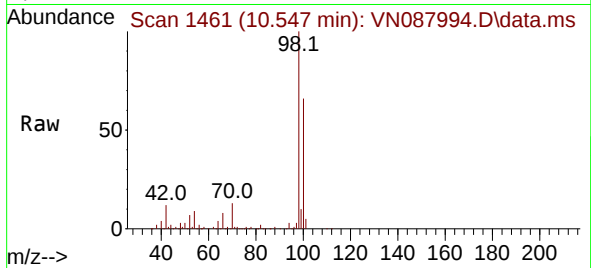




#50
Toluene-d8
Concen: 49.100 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087994.D
Acq: 30 Sep 2025 11:49

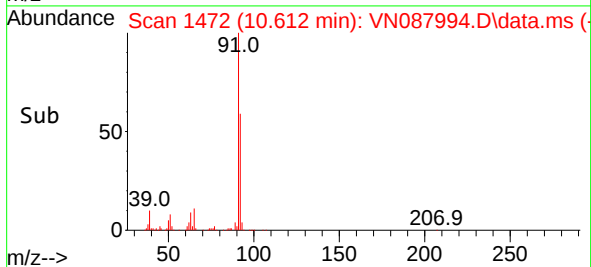
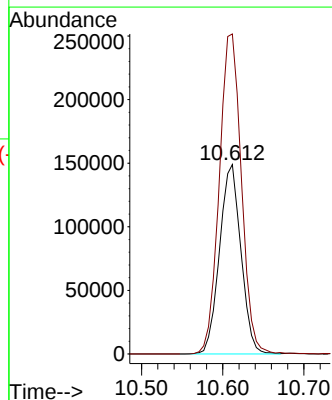
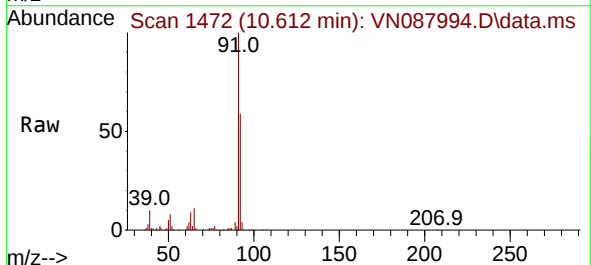
Instrument :
MSVOA_N
ClientSampleId :
4135DL

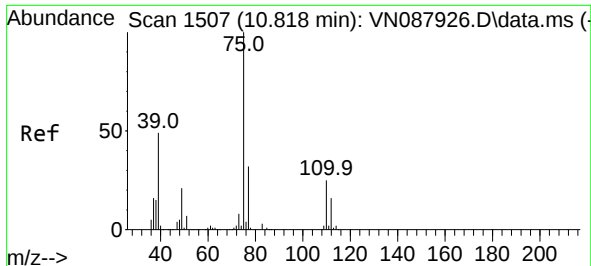
Tgt Ion: 98 Resp: 482859
Ion Ratio Lower Upper
98 100
100 64.1 51.7 77.5



#52
Toluene
Concen: 38.999 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.000 min
Lab File: VN087994.D
Acq: 30 Sep 2025 11:49

Tgt Ion: 92 Resp: 272478
Ion Ratio Lower Upper
92 100
91 175.2 138.2 207.2

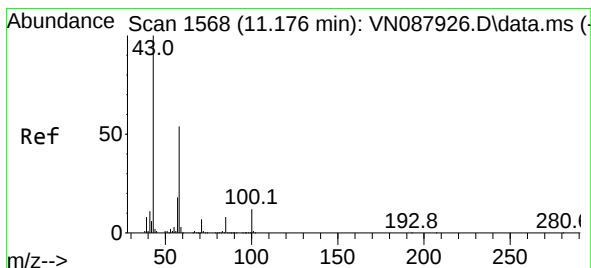
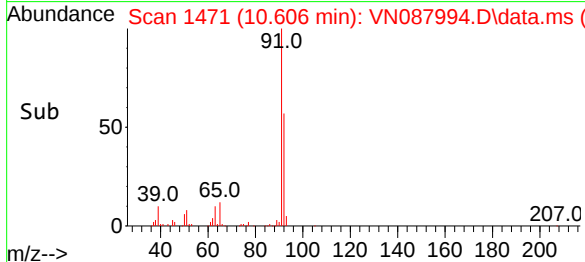
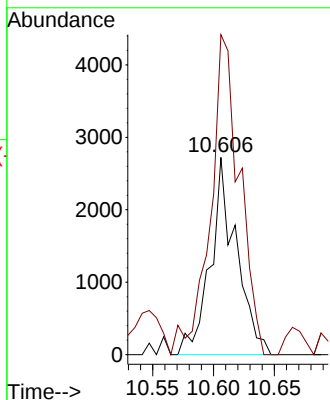
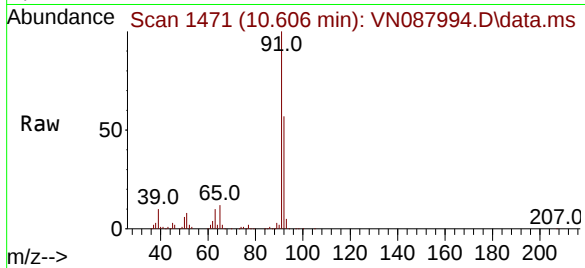




#53
t-1,3-Dichloropropene
Concen: 0.911 ug/l
RT: 10.606 min Scan# 14
Delta R.T. -0.212 min
Lab File: VN087994.D
Acq: 30 Sep 2025 11:49

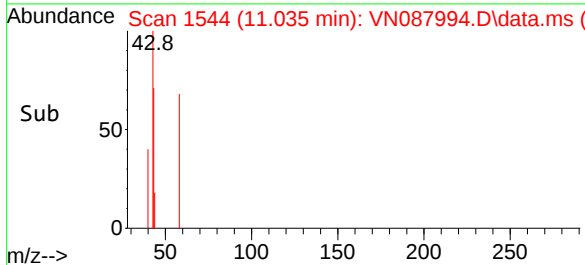
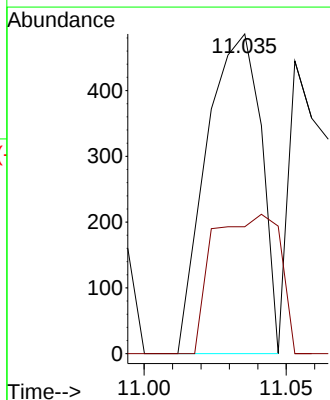
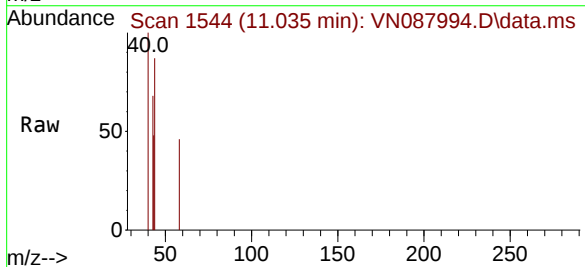
Instrument :
MSVOA_N
ClientSampleId :
4135DL

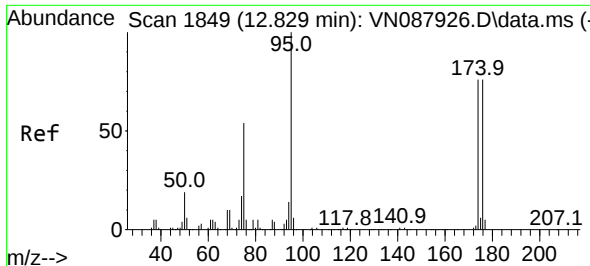
Tgt Ion: 75 Resp: 4029
Ion Ratio Lower Upper
75 100
77 162.2 25.3 37.9#



#59
2-Hexanone
Concen: 0.227 ug/l
RT: 11.035 min Scan# 1544
Delta R.T. -0.141 min
Lab File: VN087994.D
Acq: 30 Sep 2025 11:49

Tgt Ion: 43 Resp: 651
Ion Ratio Lower Upper
43 100
58 53.3 26.4 79.2

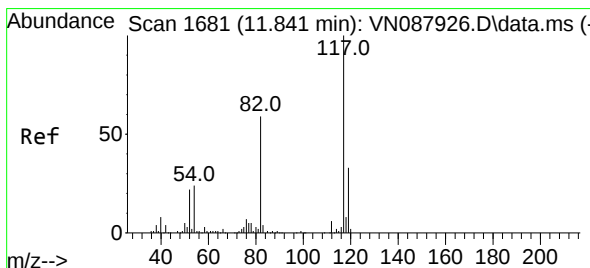
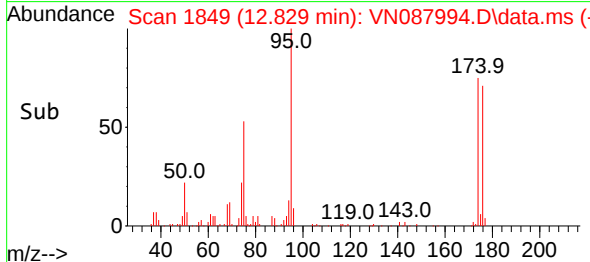
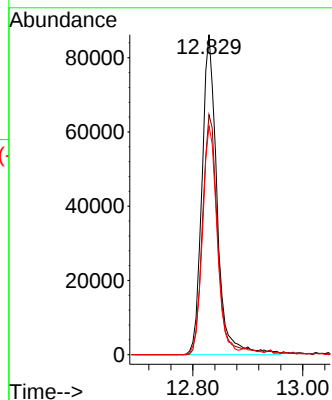
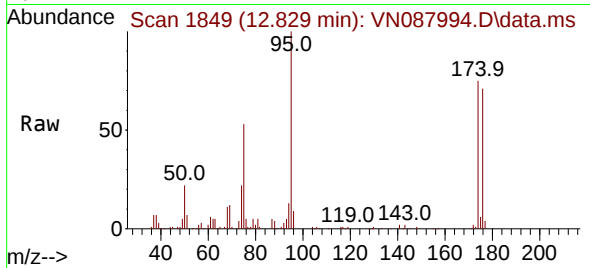




#62
4-Bromofluorobenzene
Concen: 46.748 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087994.D
Acq: 30 Sep 2025 11:49

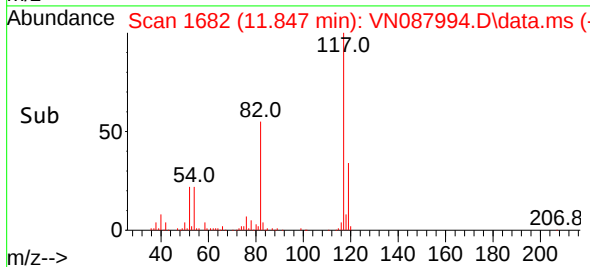
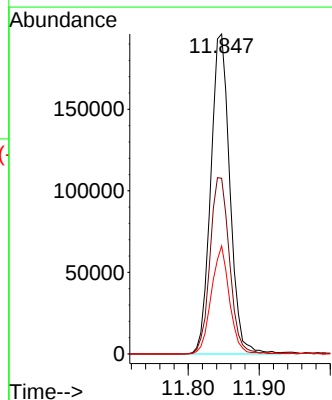
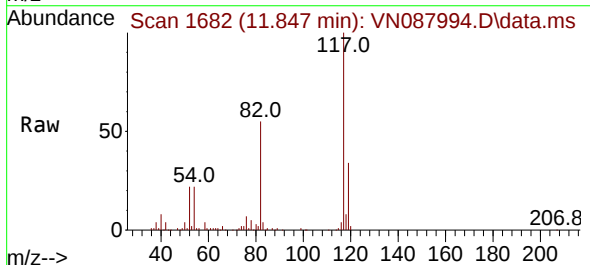
Instrument :
MSVOA_N
ClientSampleId :
4135DL

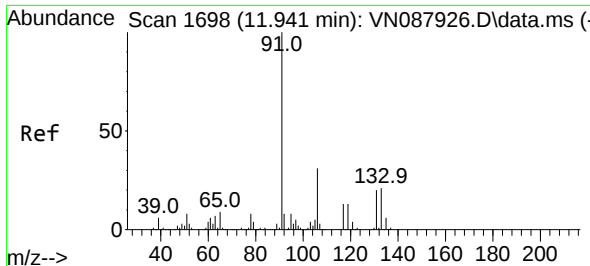
Tgt Ion: 95 Resp: 164328
Ion Ratio Lower Upper
95 100
174 75.3 0.0 159.2
176 69.4 0.0 152.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN087994.D
Acq: 30 Sep 2025 11:49

Tgt Ion: 117 Resp: 366638
Ion Ratio Lower Upper
117 100
82 54.9 47.0 70.4
119 33.8 26.1 39.1

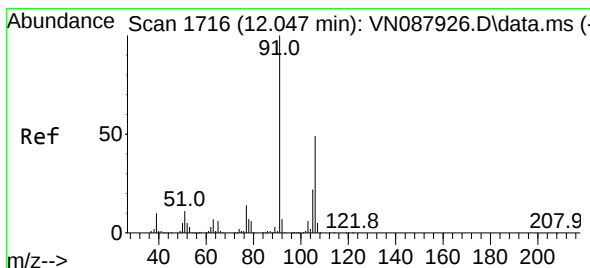
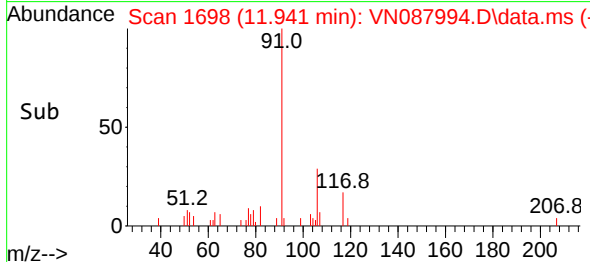
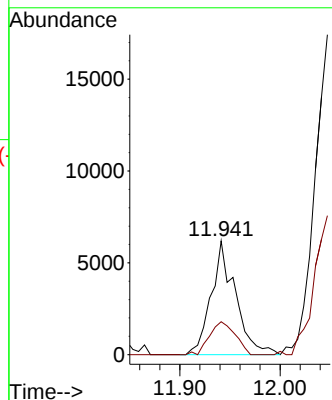
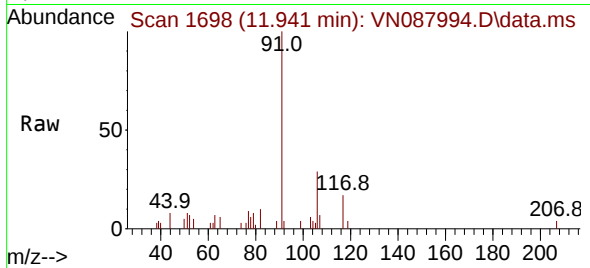




#67
Ethyl Benzene
Concen: 0.802 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN087994.D
Acq: 30 Sep 2025 11:49

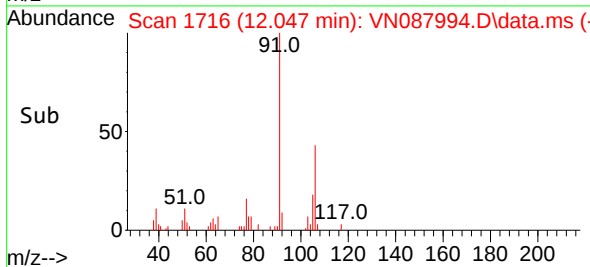
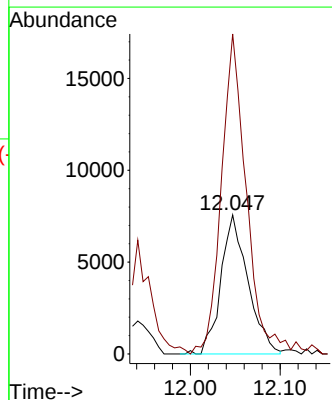
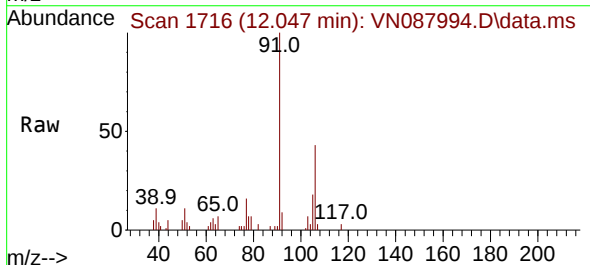
Instrument :
MSVOA_N
ClientSampleId :
4135DL

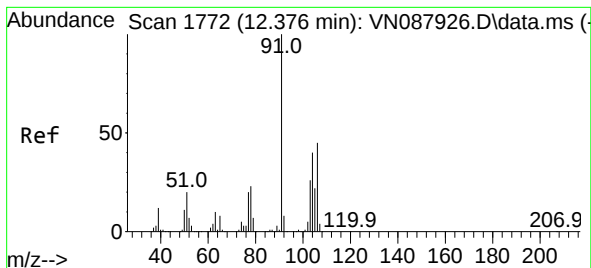
Tgt Ion: 91 Resp: 10447
Ion Ratio Lower Upper
91 100
106 29.0 25.2 37.8



#68
m/p-Xylenes
Concen: 3.191 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VN087994.D
Acq: 30 Sep 2025 11:49

Tgt Ion: 106 Resp: 15890
Ion Ratio Lower Upper
106 100
91 213.6 162.9 244.3





#69

o-Xylene

Concen: 1.191 ug/l

RT: 12.382 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN087994.D

Acq: 30 Sep 2025 11:49

Instrument :

MSVOA_N

ClientSampleId :

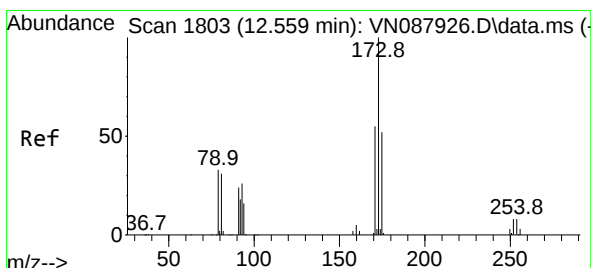
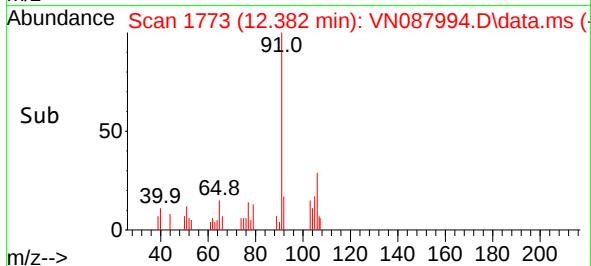
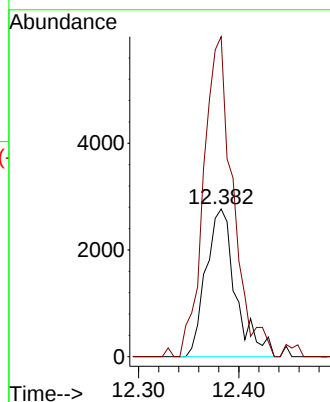
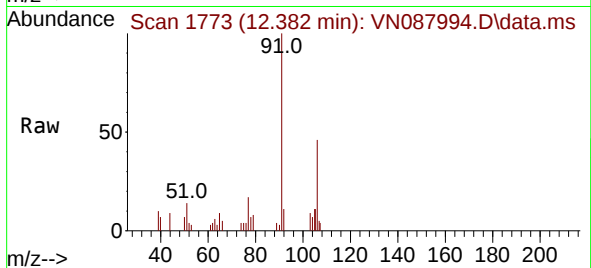
4135DL

Tgt Ion:106 Resp: 5699

Ion Ratio Lower Upper

106 100

91 215.1 108.2 324.6



#71

Bromoform

Concen: 0.262 ug/l

RT: 12.818 min Scan# 1847

Delta R.T. 0.259 min

Lab File: VN087994.D

Acq: 30 Sep 2025 11:49

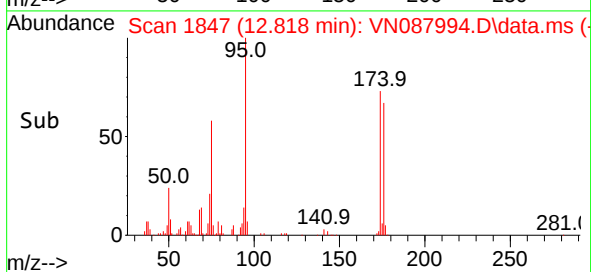
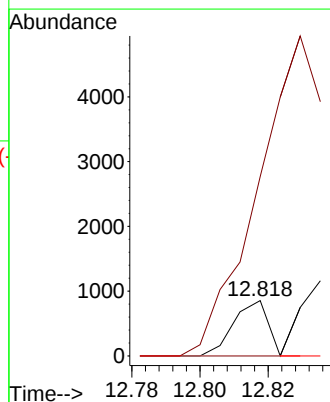
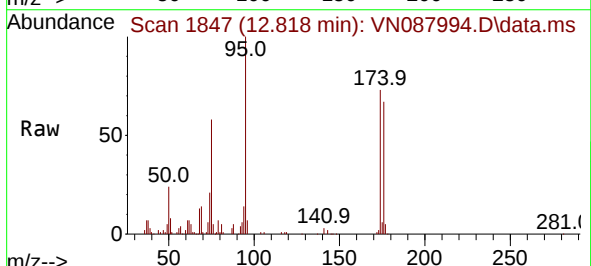
Tgt Ion:173 Resp: 599

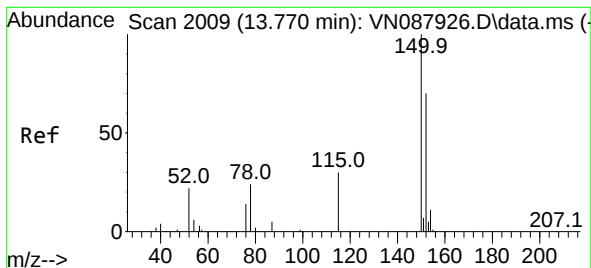
Ion Ratio Lower Upper

173 100

175 1076.5 23.7 71.1#

254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.771 min Scan# 2009

Delta R.T. 0.000 min

Lab File: VN087994.D

Acq: 30 Sep 2025 11:49

Instrument :

MSVOA_N

ClientSampleId :

4135DL

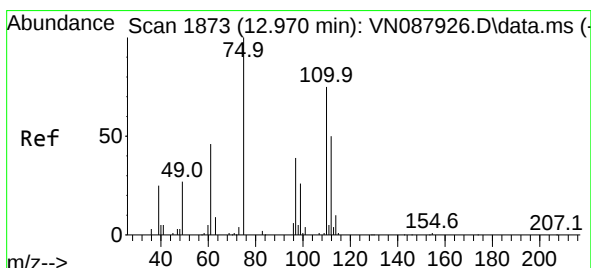
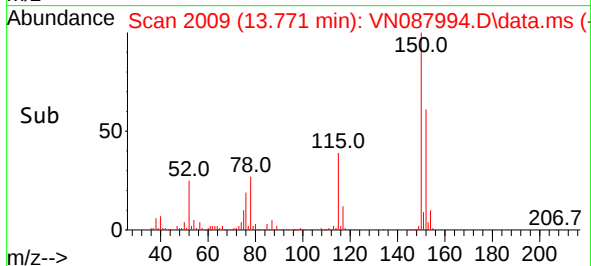
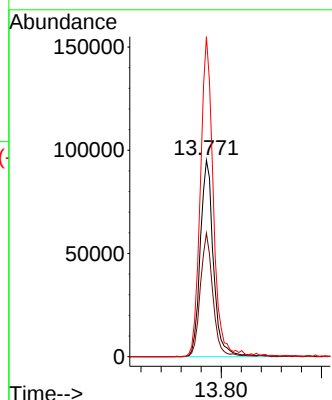
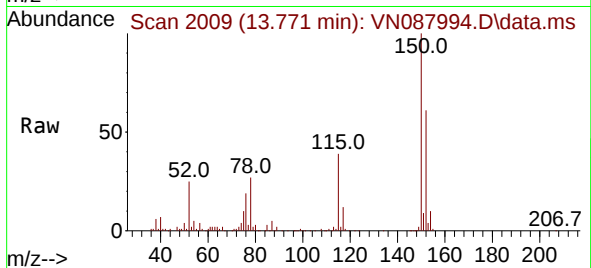
Tgt Ion:152 Resp: 173886

Ion Ratio Lower Upper

152 100

115 60.0 29.9 89.7

150 158.4 0.0 335.0



#76

1,2,3-Trichloropropane

Concen: 25.395 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN087994.D

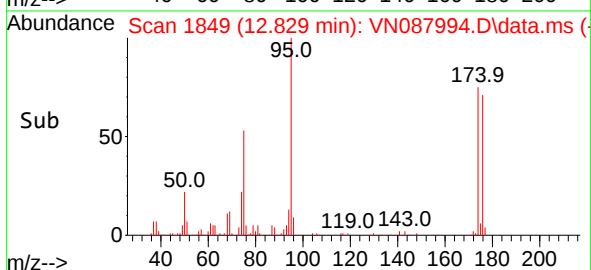
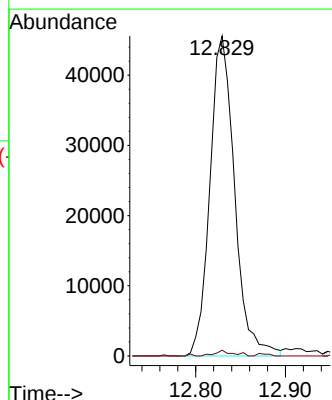
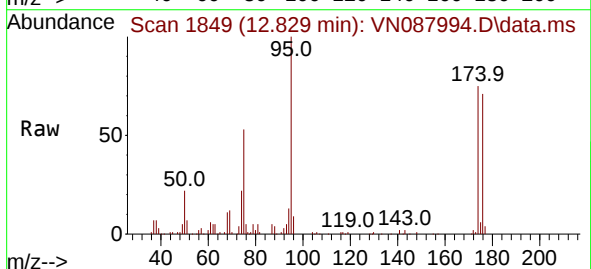
Acq: 30 Sep 2025 11:49

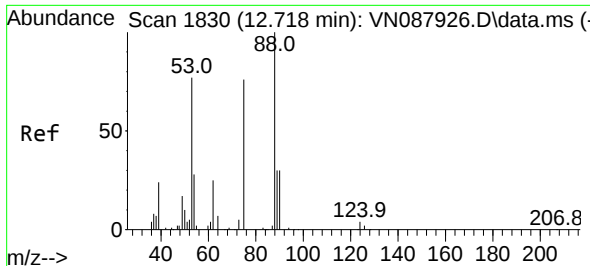
Tgt Ion: 75 Resp: 87045

Ion Ratio Lower Upper

75 100

77 1.2 89.5 268.5#

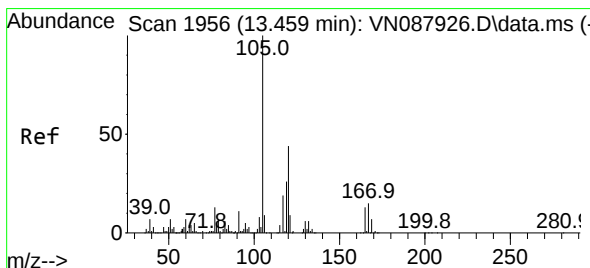
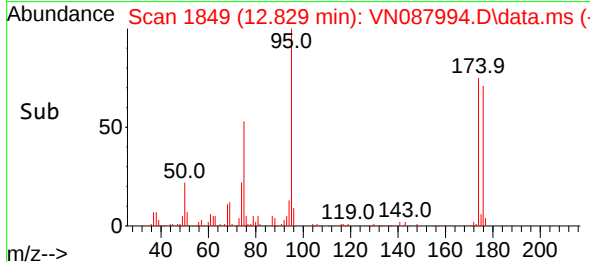
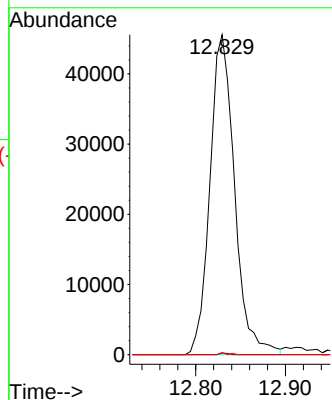
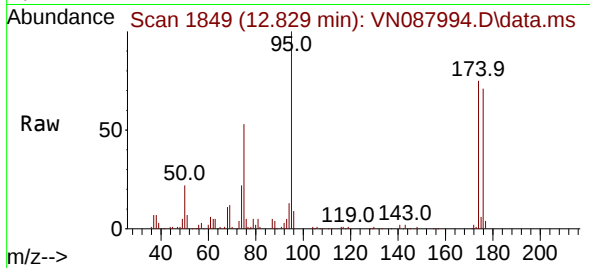




#81
trans-1,4-Dichloro-2-butene
Concen: 70.517 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087994.D
Acq: 30 Sep 2025 11:49

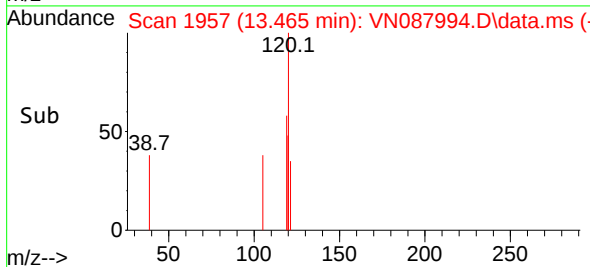
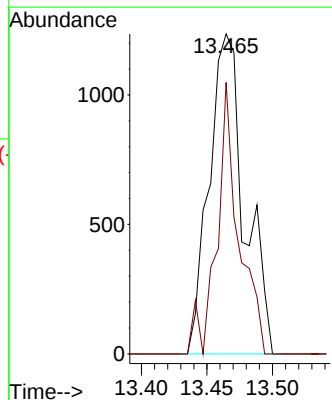
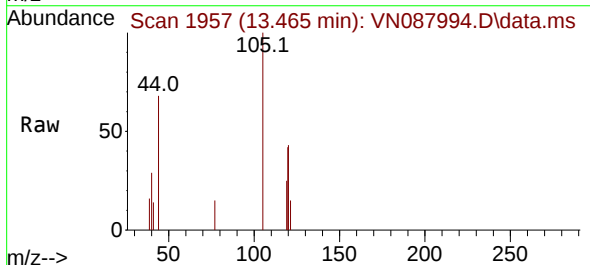
Instrument :
MSVOA_N
ClientSampleId :
4135DL

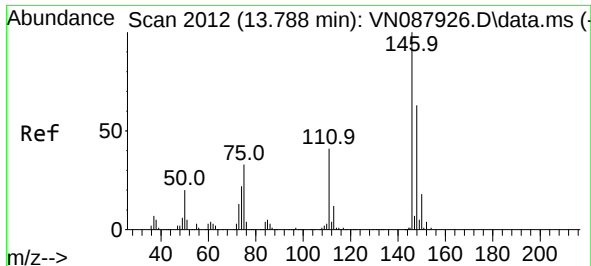
Tgt Ion: 75 Resp: 87045
Ion Ratio Lower Upper
75 100
53 0.2 82.0 123.0#
89 0.2 36.1 54.1#



#84
1,2,4-Trimethylbenzene
Concen: 0.242 ug/l
RT: 13.465 min Scan# 1957
Delta R.T. 0.006 min
Lab File: VN087994.D
Acq: 30 Sep 2025 11:49

Tgt Ion: 105 Resp: 2318
Ion Ratio Lower Upper
105 100
120 52.2 22.4 67.3

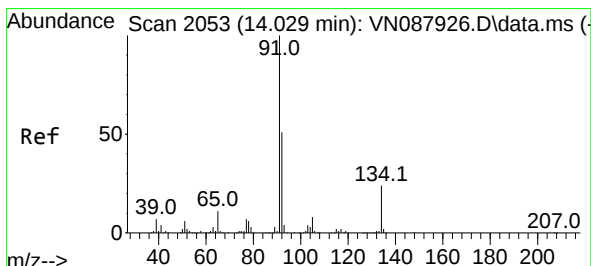
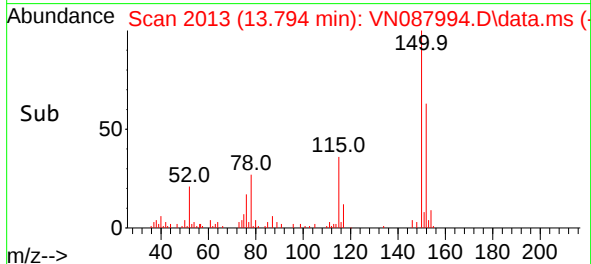
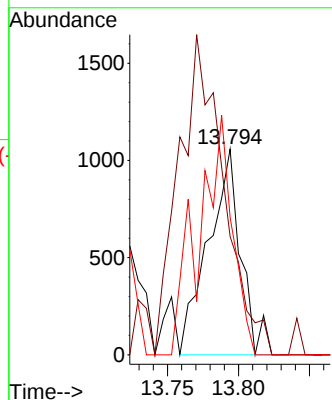
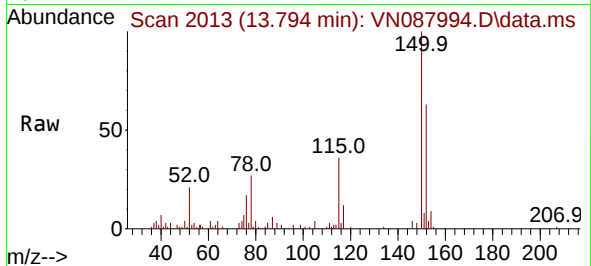




#88
1,4-Dichlorobenzene
Concen: 0.293 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN087994.D
Acq: 30 Sep 2025 11:49

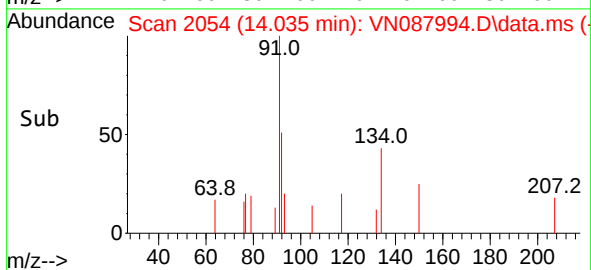
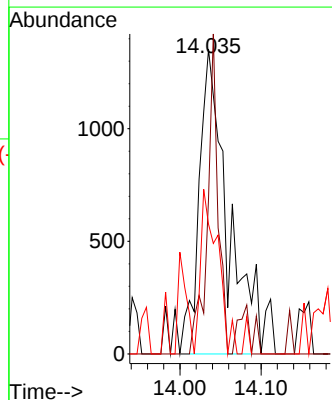
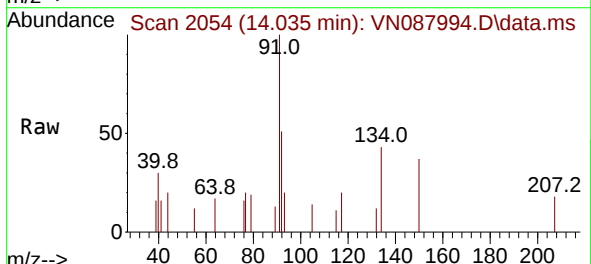
Instrument :
MSVOA_N
ClientSampleId :
4135DL

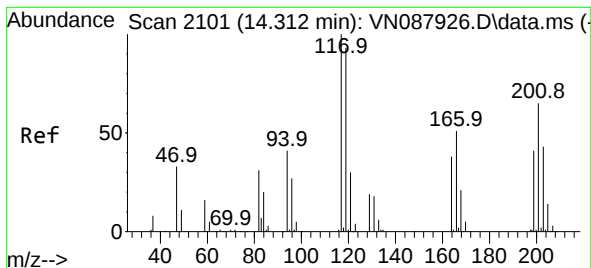
Tgt Ion:146 Resp: 1685
Ion Ratio Lower Upper
146 100
111 0.0 20.5 61.5#
148 120.0 32.8 98.4#



#89
n-Butylbenzene
Concen: 0.370 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. 0.006 min
Lab File: VN087994.D
Acq: 30 Sep 2025 11:49

Tgt Ion: 91 Resp: 3429
Ion Ratio Lower Upper
91 100
92 37.7 25.9 77.8
134 31.2 12.6 37.8





#90

Hexachloroethane

Concen: 0.265 ug/l

RT: 14.306 min Scan# 2100

Delta R.T. -0.006 min

Lab File: VN087994.D

Acq: 30 Sep 2025 11:49

Instrument :

MSVOA_N

ClientSampleId :

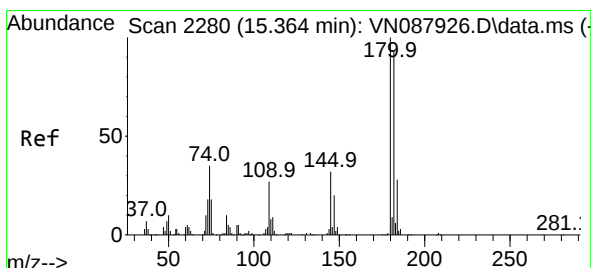
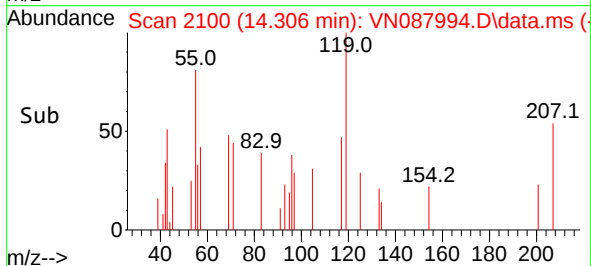
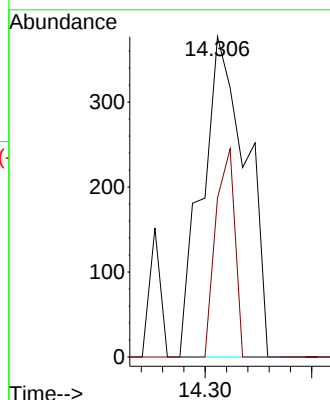
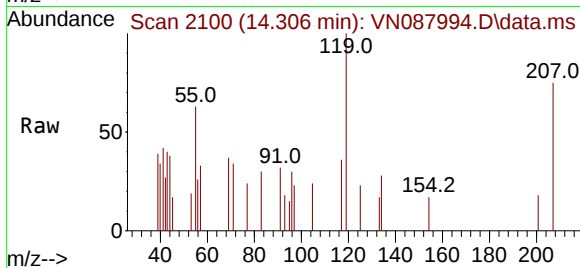
4135DL

Tgt Ion:117 Resp: 542

Ion Ratio Lower Upper

117 100

201 28.0 33.6 100.6#



#93

1,2,4-Trichlorobenzene

Concen: 0.398 ug/l

RT: 15.365 min Scan# 2280

Delta R.T. 0.000 min

Lab File: VN087994.D

Acq: 30 Sep 2025 11:49

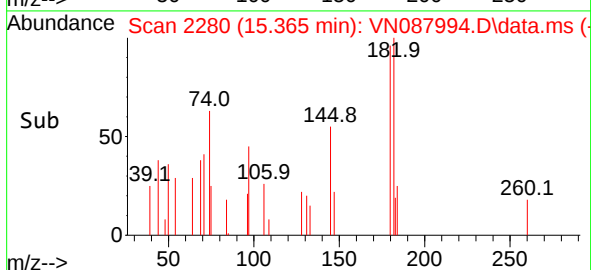
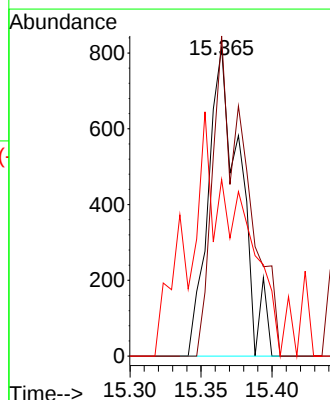
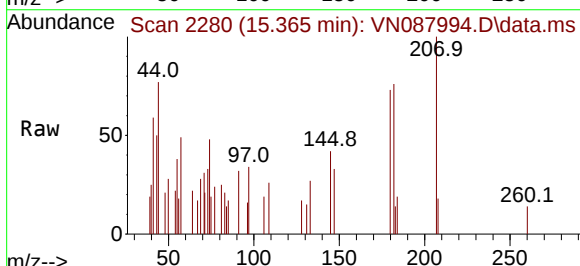
Tgt Ion:180 Resp: 1268

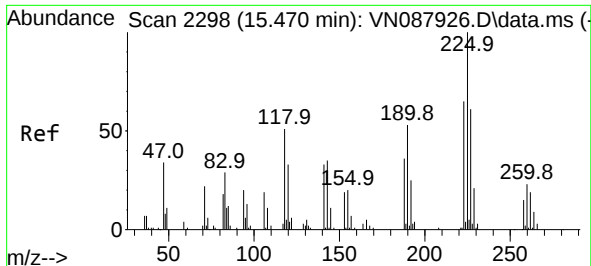
Ion Ratio Lower Upper

180 100

182 108.8 48.5 145.5

145 122.8 15.9 47.6#

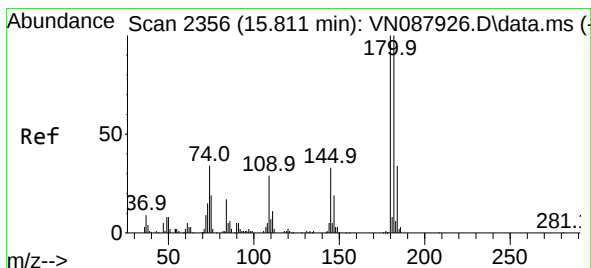
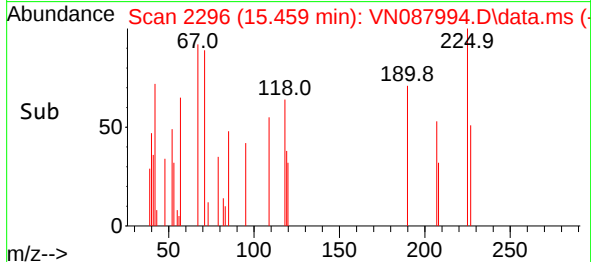
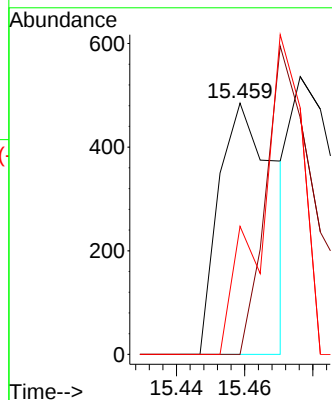
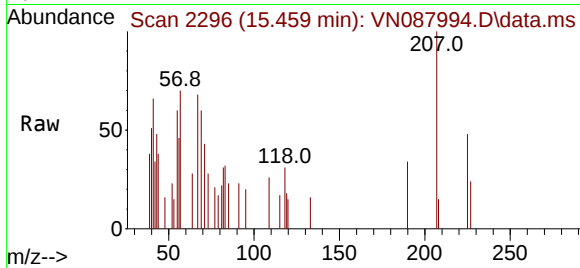




#94
Hexachlorobutadiene
Concen: 0.477 ug/l
RT: 15.459 min Scan# 211
Delta R.T. -0.012 min
Lab File: VN087994.D
Acq: 30 Sep 2025 11:49

Instrument :
MSVOA_N
ClientSampleId :
4135DL

Tgt Ion:	225	Resp:	559
Ion	Ratio	Lower	Upper
225	100		
223	127.2	31.8	95.4#
227	94.5	31.9	95.9



#96
1,2,3-Trichlorobenzene
Concen: 0.437 ug/l
RT: 15.812 min Scan# 2356
Delta R.T. 0.000 min
Lab File: VN087994.D
Acq: 30 Sep 2025 11:49

Tgt Ion:	180	Resp:	1354
Ion	Ratio	Lower	Upper
180	100		
182	113.2	47.3	142.0
145	0.0	16.1	48.3#

