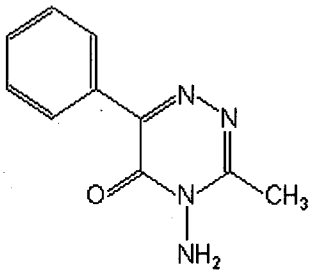
Risiken erkennen – Gesundheit schützen

MS/MS Parameters of Pesticides

Analyte: Metamitron

CAS No.: 41394-05-2
Formula: C10H10N4O
Molecular mass (lowest isotopes): 202,09 amu

Structure:



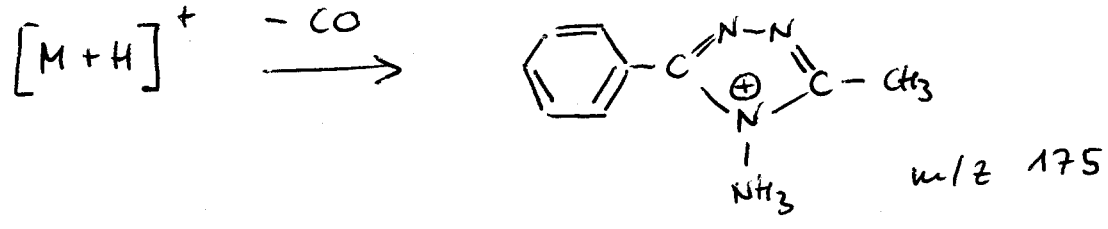
Ionisation: ESI + Quasimolecular ion: 203,1 amu = [M+H]+

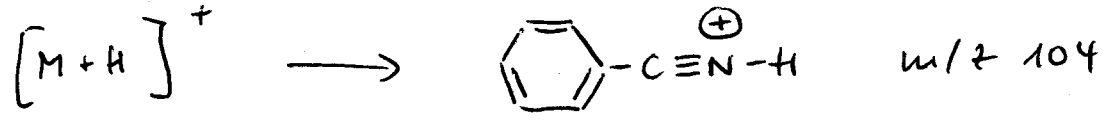
Analyte sensitive parameter set (API 2000)

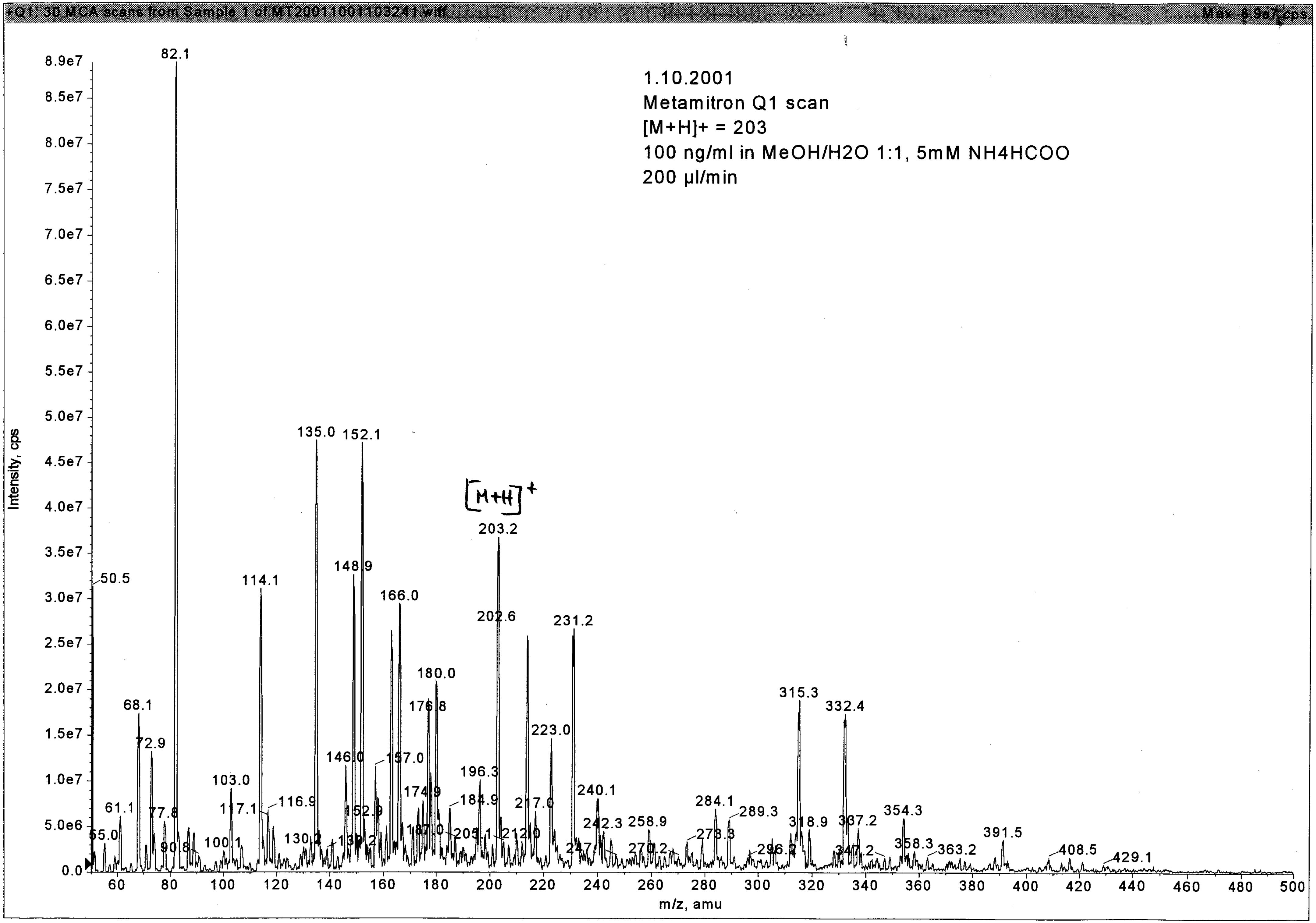
Transition	203,1 → 175,0	203,1 → 104,1
Declustering potential (DP)*)	49 V	49 V
Focusing potential (FP)	360 V	360 V
Entrance potential (EP)	12,0 V	10,5 V
Collision cell entrance potential (CEP)	26 V	14 V
Collision energy (CE)	29 V	29 V
Collision cell exit potential (CXP)	8 V	6 V

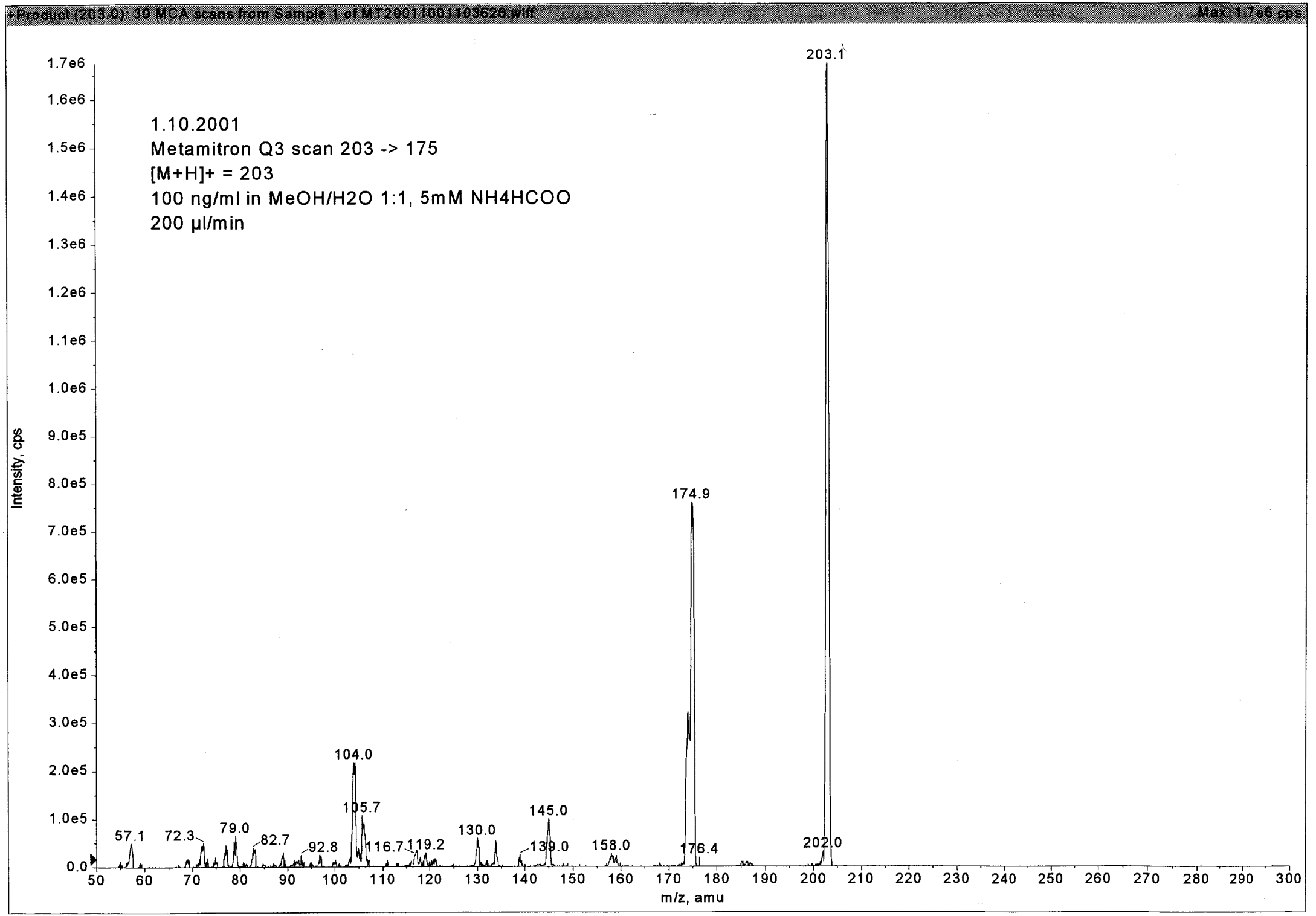
*) For API 3000 and 4000 enhance DP by 20V

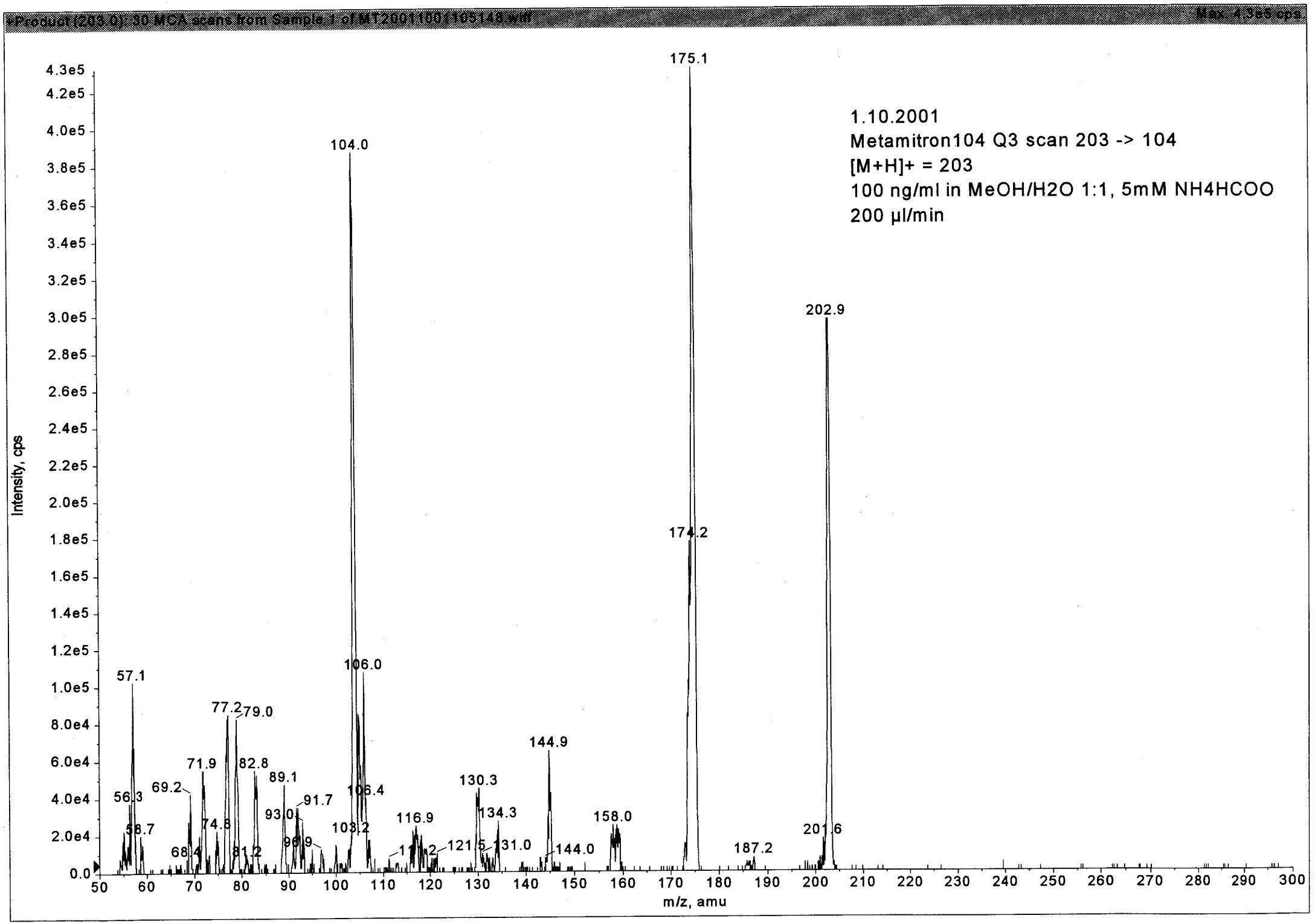
Fragmentation






+Q1: 30 MCA scans from Sample 1 of MT20011001103241.wiff
Max. 8.9e7 cps.
1.10.2001
Metamitron Q1 scan
[M+H]+ = 203
100 ng/ml in MeOH/H2O 1:1, 5mM NH4HCOO
200 µl/min
[M+H]+
Intensity, cps
m/z, amu
82.1
135.0
152.1
203.2
148.9
50.5
114.1
166.0
202.6
231.2
180.0
68.1
176.8
315.3
332.4
223.0
72.9
146.0
157.0
103.0
196.3
240.1
174.9
184.9
217.0
284.1
289.3
354.3
61.1
117.1
116.9
77.8
152.9
242.3
258.9
318.9
337.2
391.5
55.0
130.2
187.0
205.1
212.0
273.3
358.3
363.2
408.5
90.8
100.1
139.2
247.1
270.2
296.2
347.2
429.1


+Product (203.0): 30 MCA scans from Sample 1 of MT20011001103526.wiff
Max. 1.7e6 cps
1.10.2001
Metamitron Q3 scan 203 -> 175
[M+H]+ = 203
100 ng/ml in MeOH/H2O 1:1, 5mM NH4HCOO
200 µl/min
Intensity, cps
m/z, amu
203.1
174.9
104.0
105.7
145.0
57.1
72.3
79.0
82.7
92.8
116.7
119.2
130.0
139.0
158.0
176.4
202.0


+Product (203.0): 30 MCA scans from Sample 1 of MT20011001105148.wiff
Max. 4.3e5 cps
1.10.2001
Metamitron104 Q3 scan 203 -> 104
[M+H]+ = 203
100 ng/ml in MeOH/H2O 1:1, 5mM NH4HCOO
200 µl/min
Intensity, cps
m/z, amu
175.1
104.0
202.9
174.2
106.0
57.1
77.2
79.0
144.9
71.9
82.8
89.1
130.3
69.2
106.4
91.7
134.3
56.3
93.0
116.9
158.0
58.7
74.8
103.2
131.0
144.0
187.2
201.6
68.4
81.2
96.9
121.5