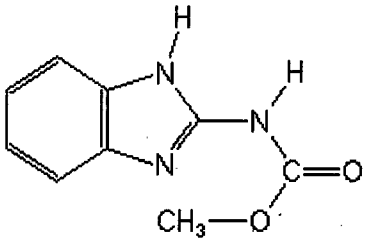
Risiken erkennen – Gesundheit schützen

MS/MS Parameters of Pesticides

Analyte: Carbendazim

CAS No.: 10605-21-7
Formula: C9H9N3O2
Molecular mass (lowest isotopes): 191,10 amu

Structure:



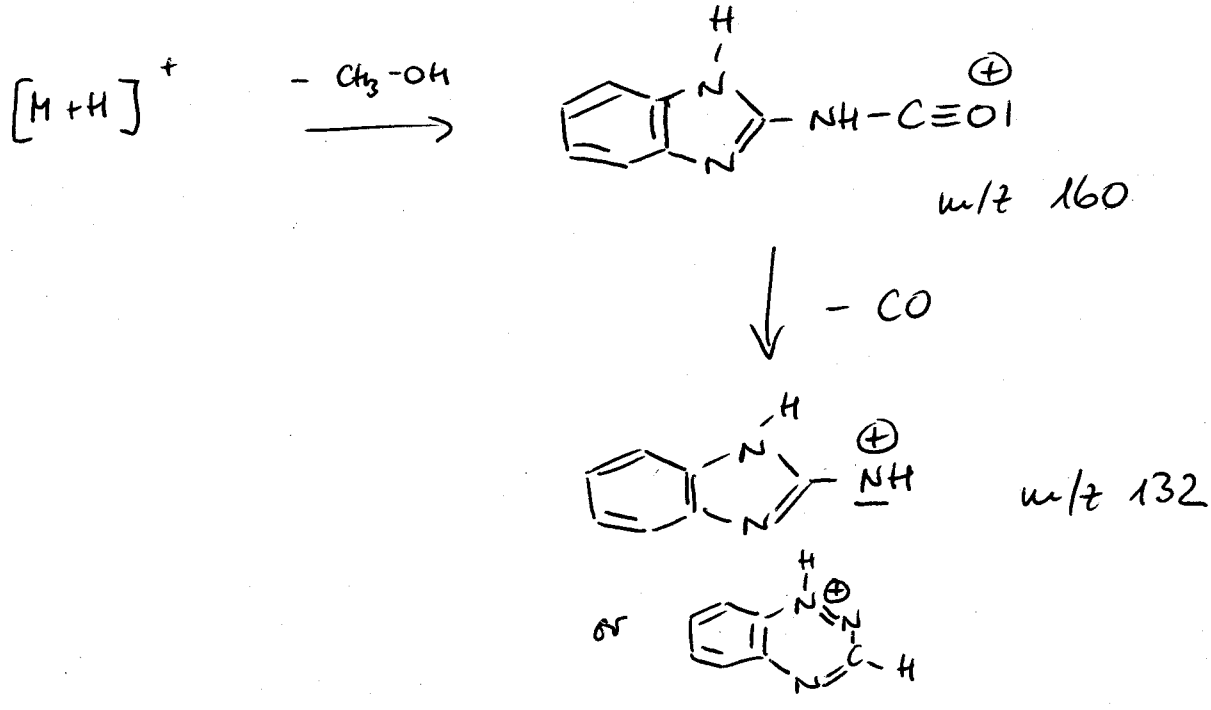
Ionisation: ESI + Quasimolecular ion: 192,1 amu = [M+H]+

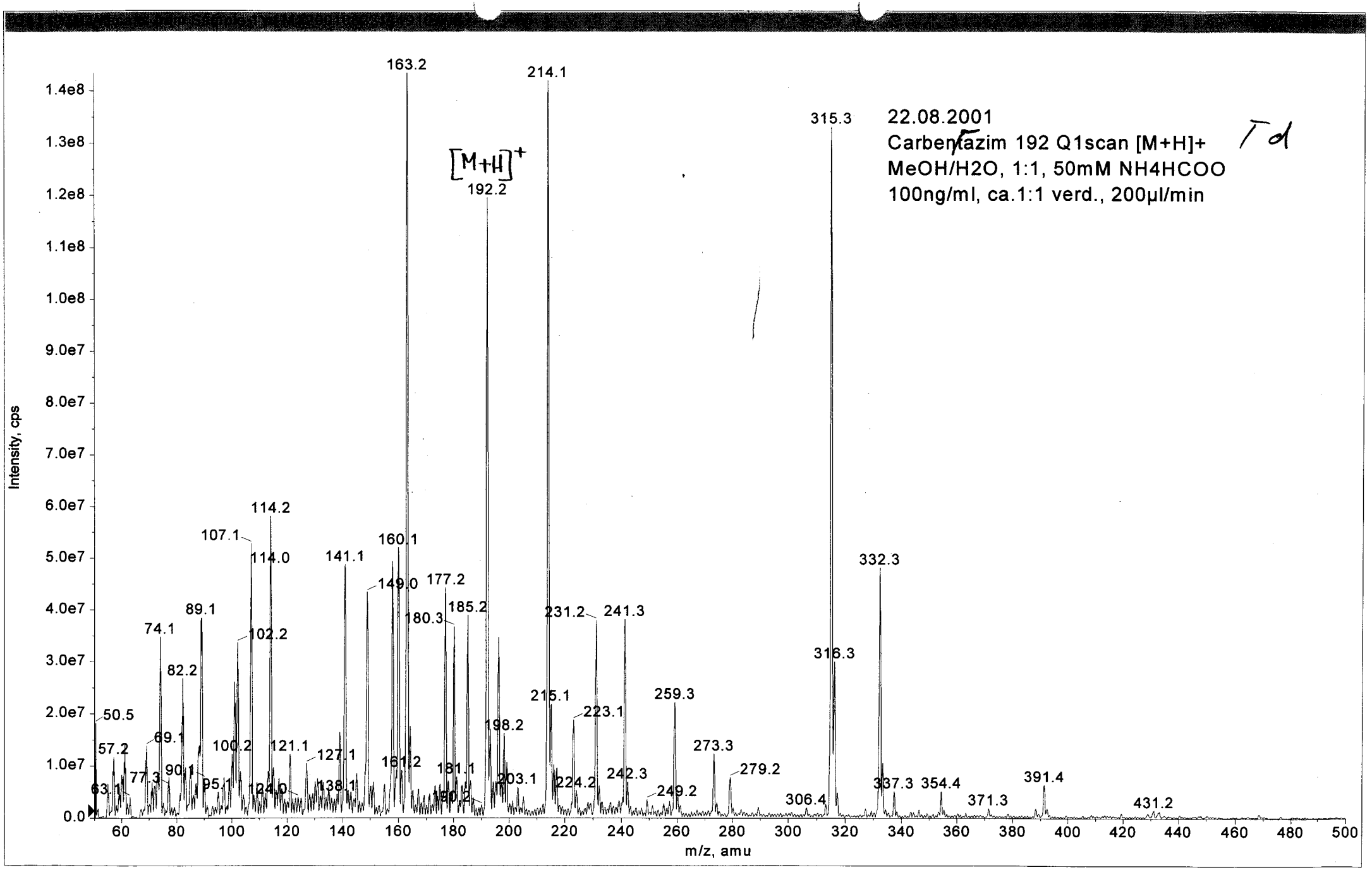
Analyte sensitive parameter set (API 2000)

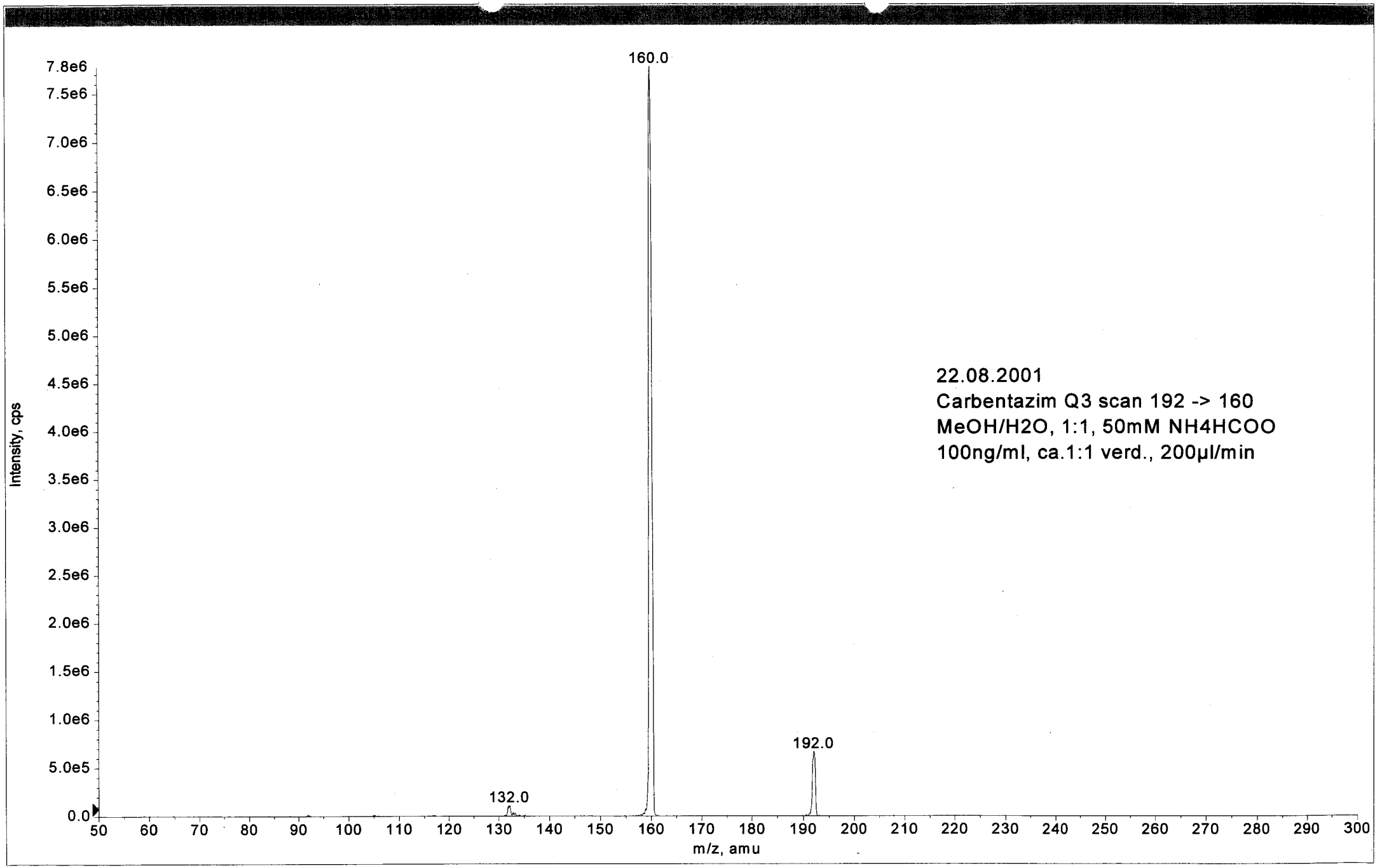
Transition	192,1 → 160,0	192,1 → 132,0
Declustering potential (DP)*)	31 V	31 V
Focusing potential (FP)	360 V	360 V
Entrance potential (EP)	11,0 V	12,0 V
Collision cell entrance potential (CEP)	16 V	16 V
Collision energy (CE)	25 V	41 V
Collision cell exit potential (CXP)	8 V	6 V

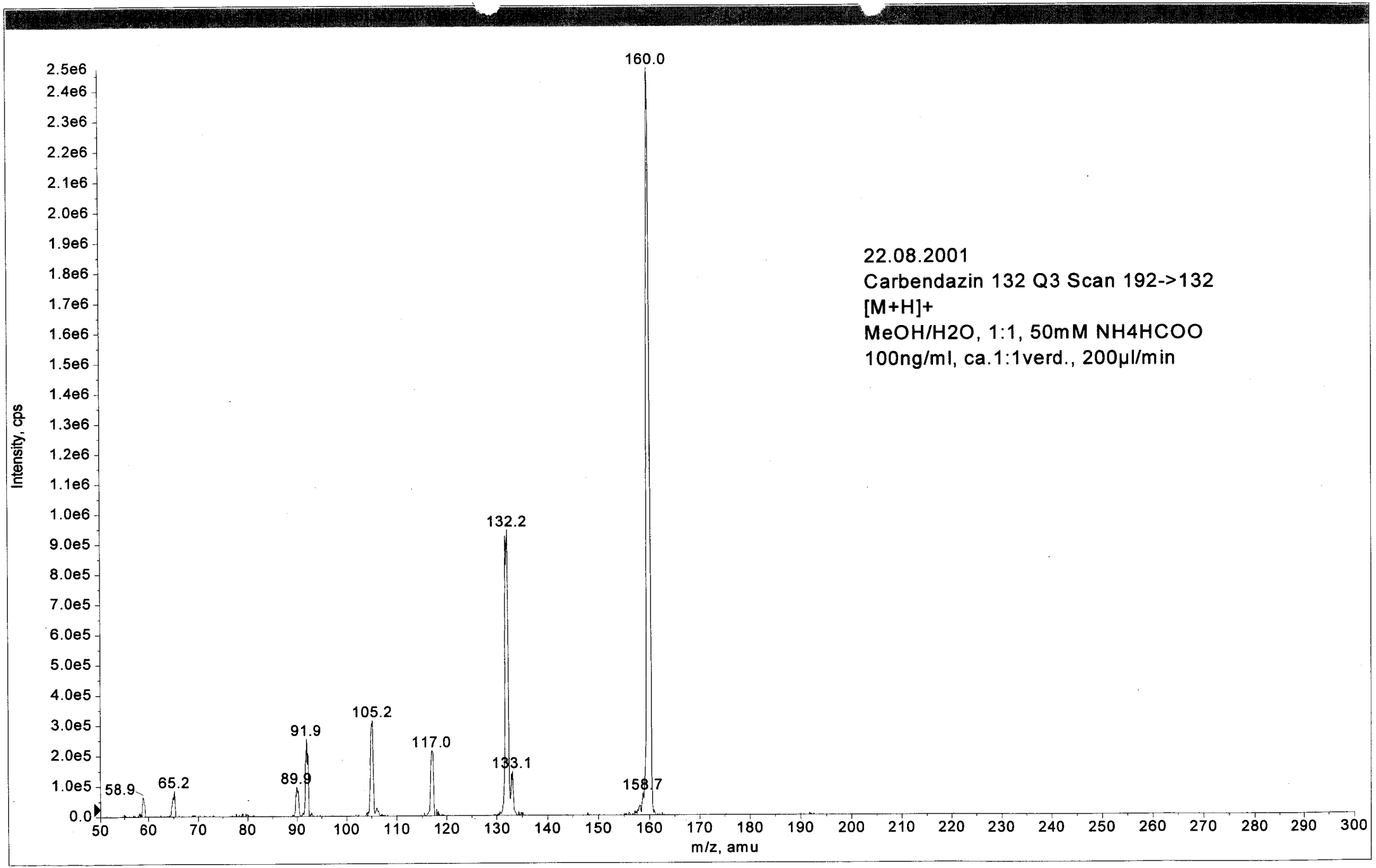
*) For API 3000 and 4000 enhance DP by 20V

Fragmentation




22.08.2001
Carbendazim 192 Q1scan [M+H]+
MeOH/H2O, 1:1, 50mM NH4HCOO
100ng/ml, ca.1:1 verd., 200µl/min
[M+H]+
192.2
163.2
214.1
315.3
332.3
316.3
114.2
107.1
114.0
160.1
141.1
149.0
177.2
185.2
180.3
89.1
74.1
102.2
82.2
231.2
241.3
259.3
215.1
223.1
198.2
273.3
279.2
50.5
57.2
69.1
100.2
121.1
127.1
161.2
181.1
203.1
224.2
242.3
249.2
306.4
337.3
354.4
371.3
391.4
431.2
63.1
77.3
90.1
95.1
124.0
138.1
Intensity, cps
m/z, amu


160.0
192.0
132.0
22.08.2001
Carbentazim Q3 scan 192 -> 160
MeOH/H2O, 1:1, 50mM NH4HCOO
100ng/ml, ca.1:1 verd., 200µl/min
Intensity, cps
m/z, amu
7.8e6
7.5e6
7.0e6
6.5e6
6.0e6
5.5e6
5.0e6
4.5e6
4.0e6
3.5e6
3.0e6
2.5e6
2.0e6
1.5e6
1.0e6
5.0e5
0.0
50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300


22.08.2001
Carbendazin 132 Q3 Scan 192->132
[M+H]+
MeOH/H2O, 1:1, 50mM NH4HCOO
100ng/ml, ca.1:1verd., 200µl/min
Intensity, cps
m/z, amu
160.0
132.2
105.2
91.9
117.0
133.1
89.9
65.2
58.9
158.7