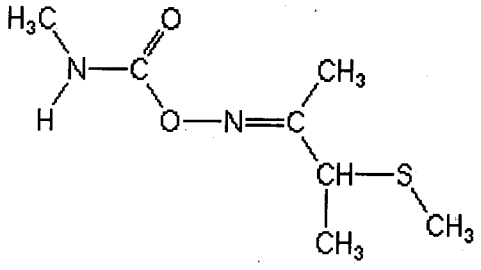
Risiken erkennen – Gesundheit schützen

MS/MS Parameters of Pesticides

Analyte: Butocarboxim

CAS No.: 34681-10-2
Formula: C7H14N2O2S
Molecular mass (lowest isotopes): 190,08 amu

Structure:



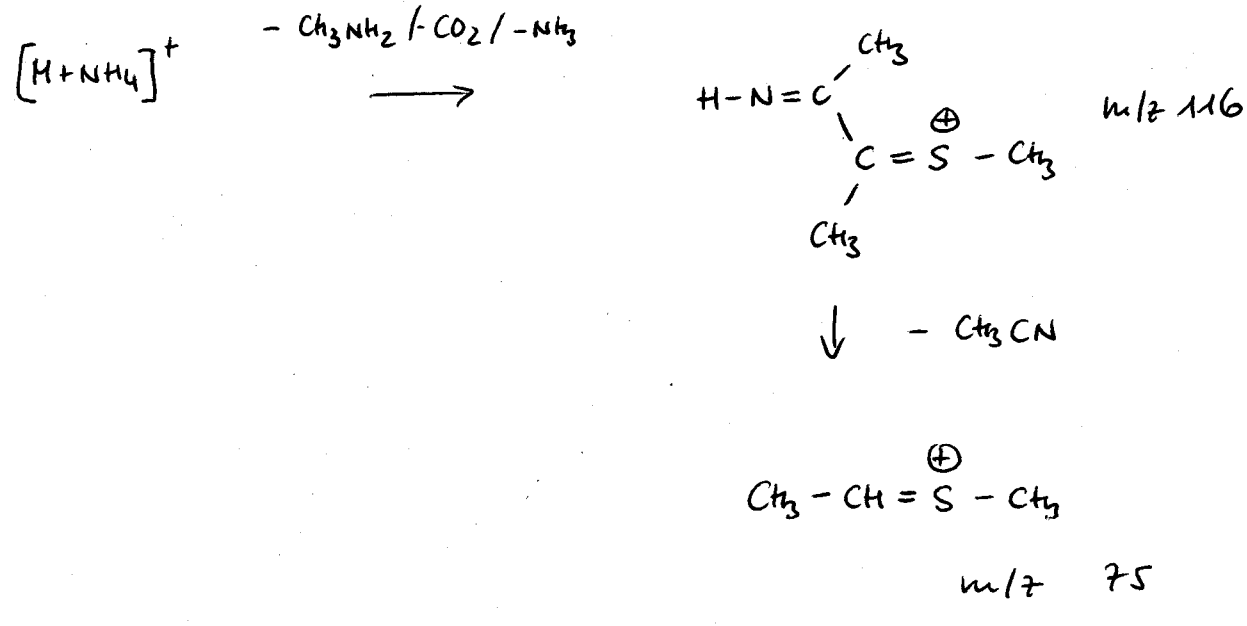
Ionisation: ESI + Quasimolecular ion: 208,1 amu = [M+NH4]+

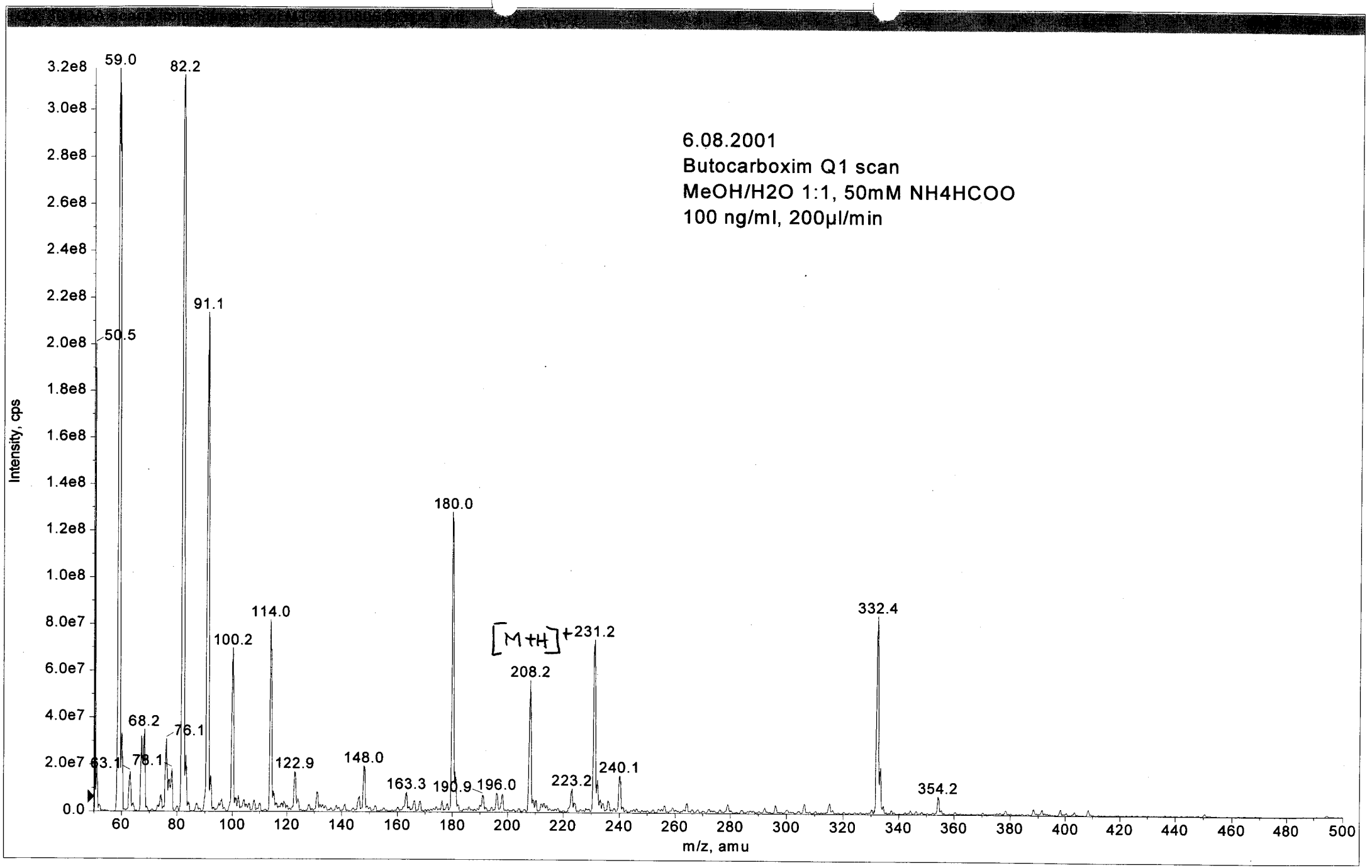
Analyte sensitive parameter set (API 2000)

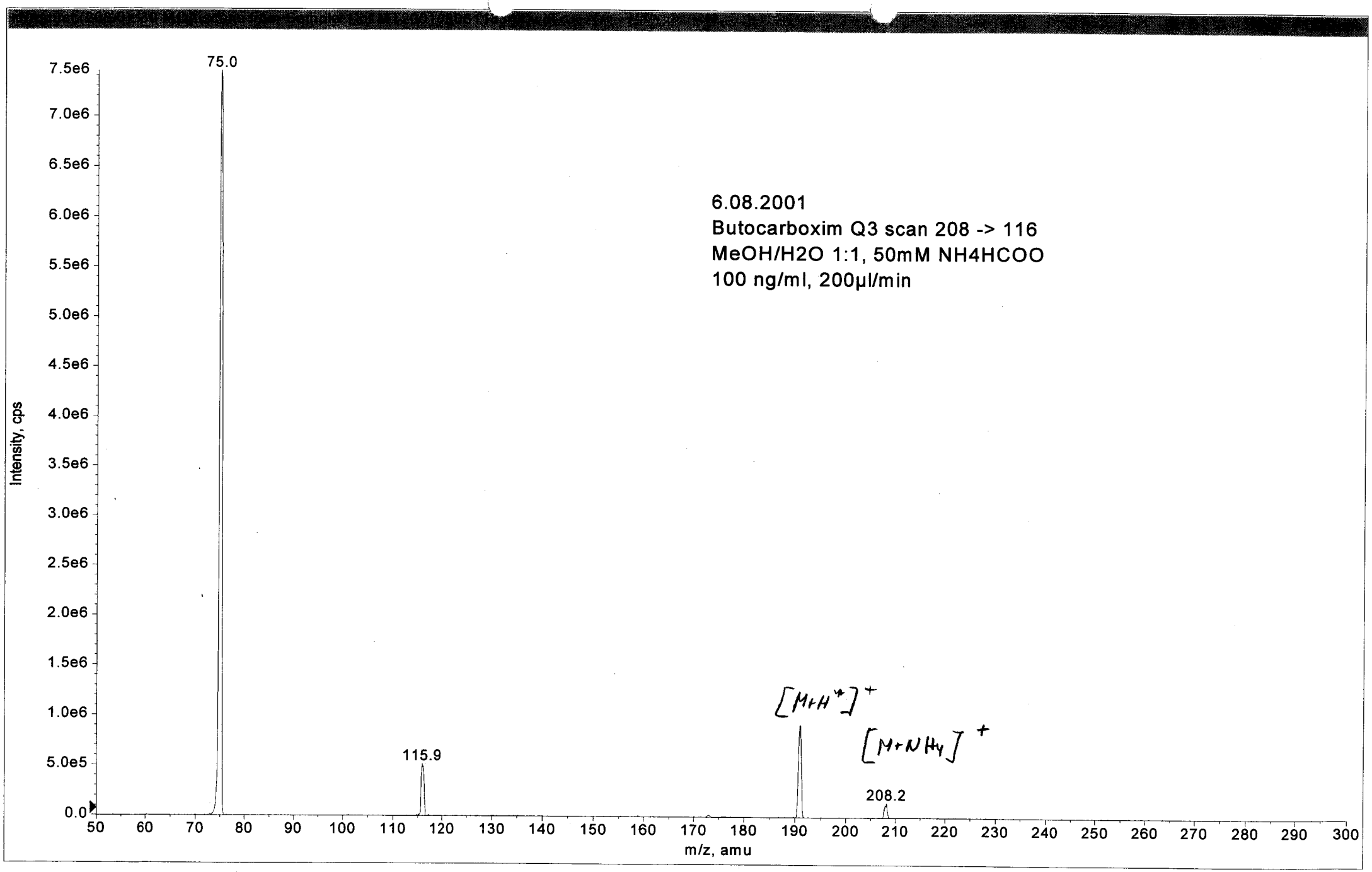
Transition	208,1 → 116,1	208,1 → 75,0
Declustering potential (DP)*)	1 V	1 V
Focusing potential (FP)	360 V	360 V
Entrance potential (EP)	4,0 V	4,5 V
Collision cell entrance potential (CEP)	10 V	12 V
Collision energy (CE)	11 V	15 V
Collision cell exit potential (CXP)	6 V	10 V

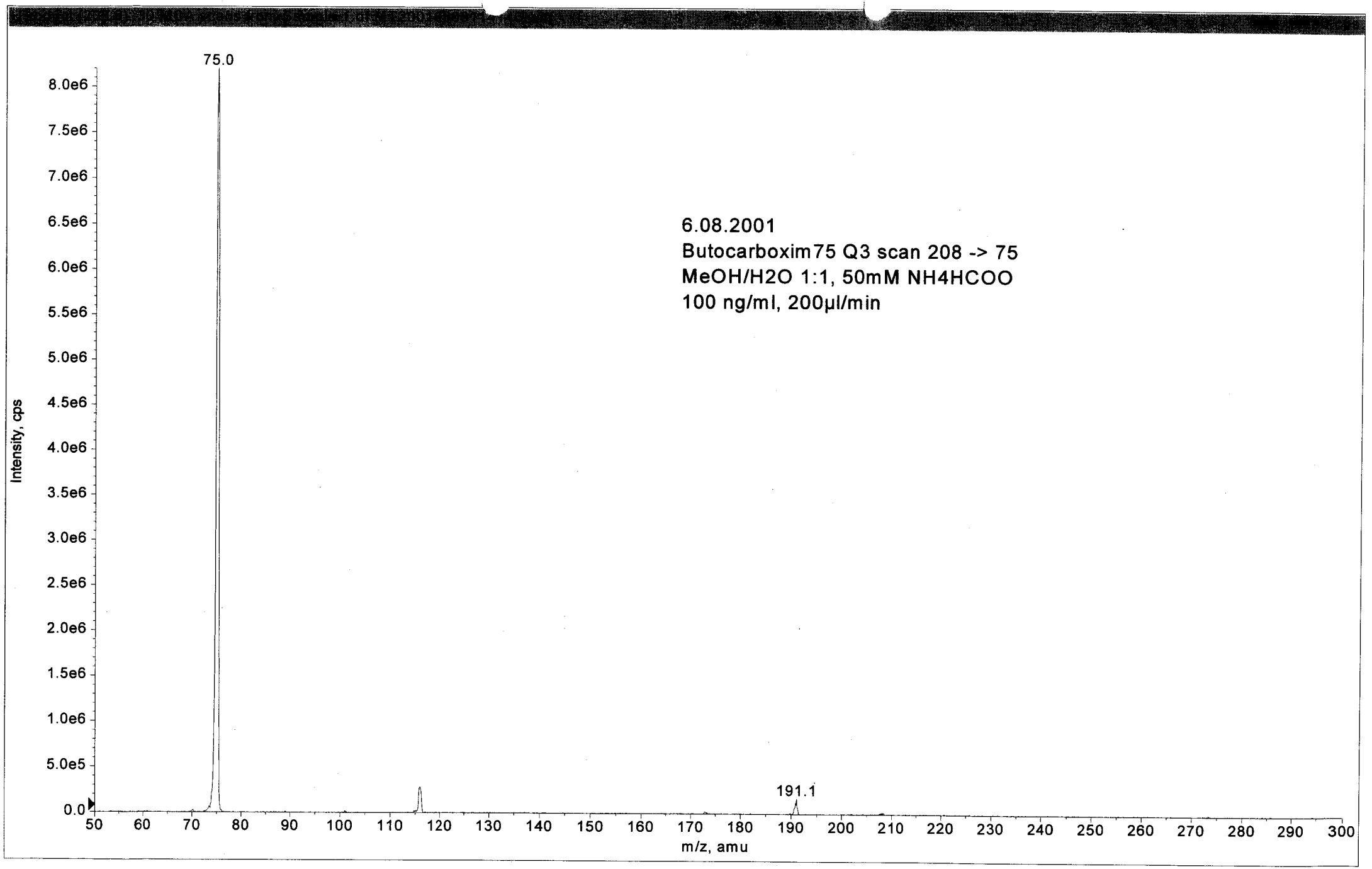
*) For API 3000 and 4000 enhance DP by 20V

Fragmentation




6.08.2001
Butocarboxim Q1 scan
MeOH/H2O 1:1, 50mM NH4HCOO
100 ng/ml, 200µl/min
Intensity, cps
m/z, amu
[M+H]+
59.0
82.2
91.1
50.5
180.0
114.0
100.2
231.2
208.2
332.4
68.2
76.1
63.1
78.1
122.9
148.0
163.3
190.9
196.0
223.2
240.1
354.2


6.08.2001
Butocarboxim Q3 scan 208 -> 116
MeOH/H2O 1:1, 50mM NH4HCOO
100 ng/ml, 200µl/min
75.0
115.9
208.2
[M+H+]+
[M+NH4]+
Intensity, cps
m/z, amu
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


75.0
191.1
6.08.2001
Butocarboxim75 Q3 scan 208 -> 75
MeOH/H2O 1:1, 50mM NH4HCOO
100 ng/ml, 200µl/min
Intensity, cps
8.0e6
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
m/z, amu