

MS/MS Parameters of Pesticides

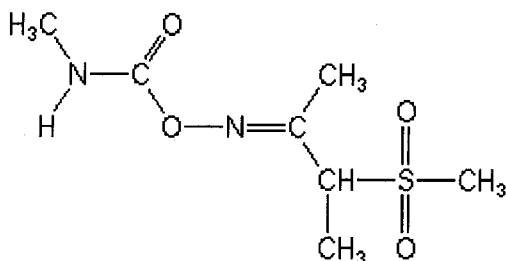
Analyte: Butoxycarboxim

CAS No.: 34681-23-7

Formula: C₇H₁₄N₂O₄S

Molecular mass (lowest isotopes): 222,07 amu

Structure:



Ionisation: ESI +

Quasimolecular ion: 240,1 amu = [M+NH₄]⁺

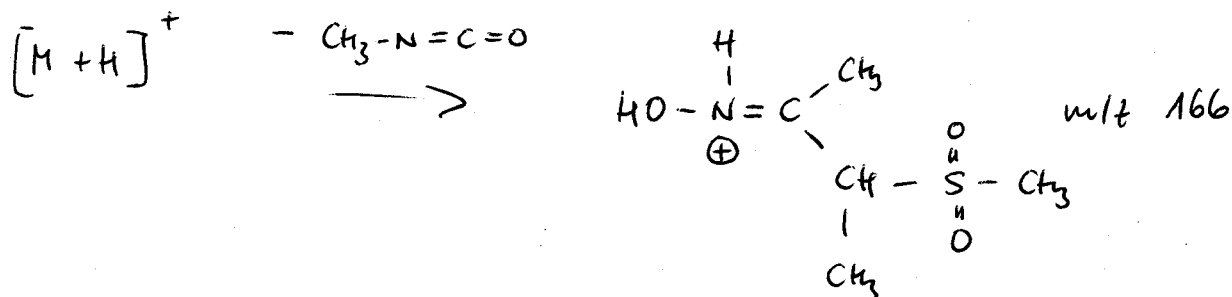
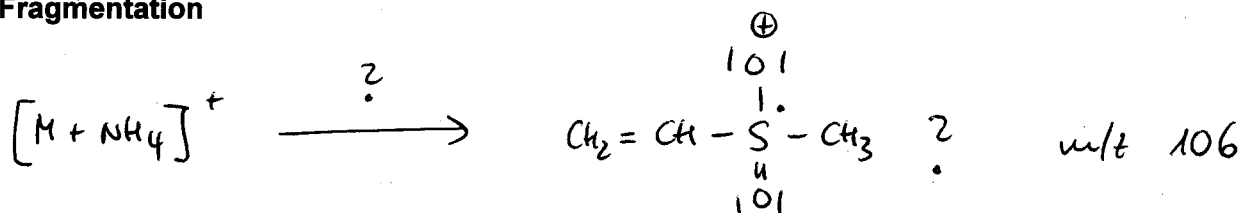
Analyte sensitive parameter set (API 2000)

223,1 amu = [M+H]⁺

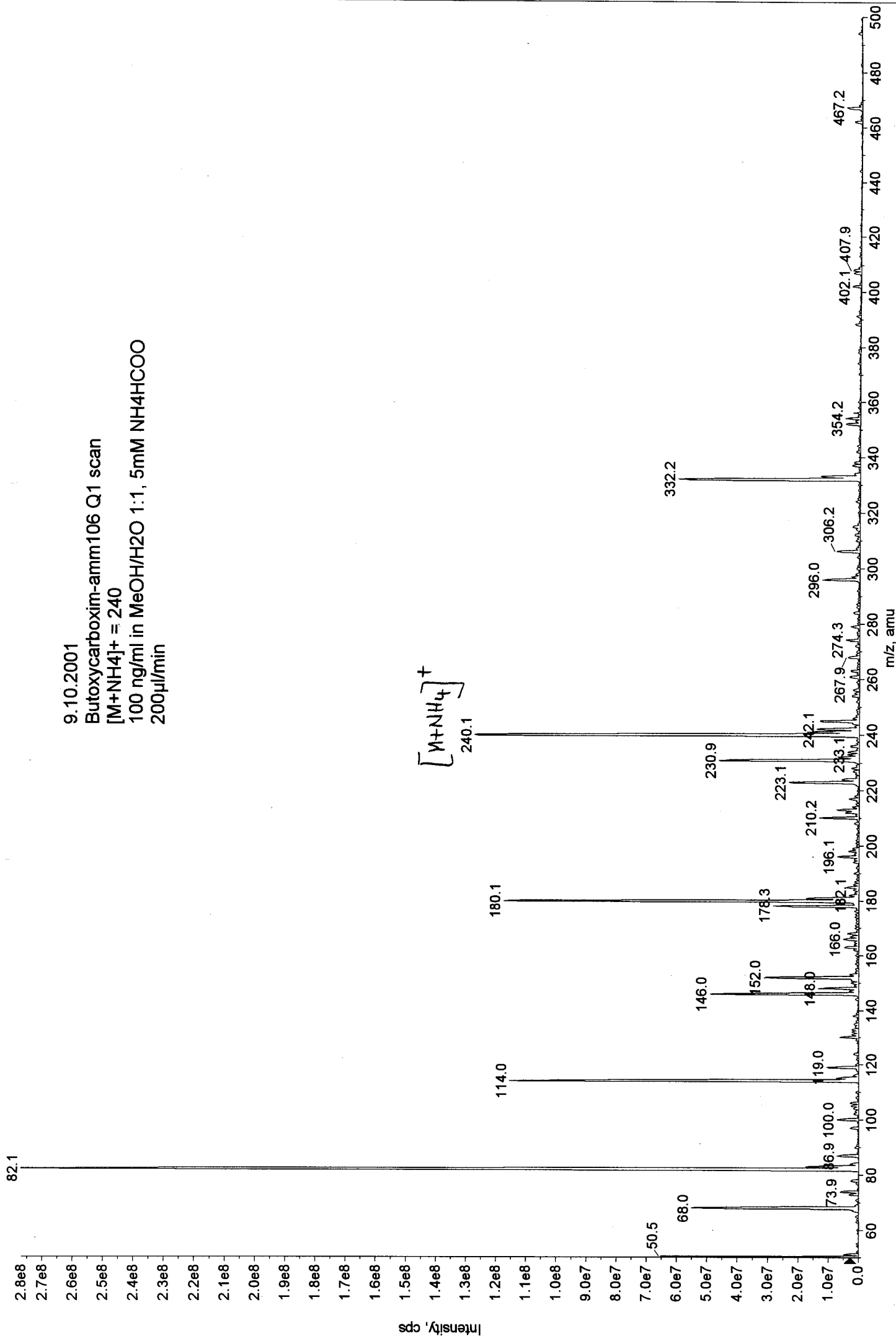
Transition	240,1 → 106,0	223,1 → 166,0
Declustering potential (DP) ^{*)}	V	V
Focusing potential (FP)	360 V	340 V
Entrance potential (EP)	4,5 V	10,5 V
Collision cell entrance potential (CEP)	14 V	16 V
Collision energy (CE)	19 V	13 V
Collision cell exit potential (CXP)	4 V	8 V

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

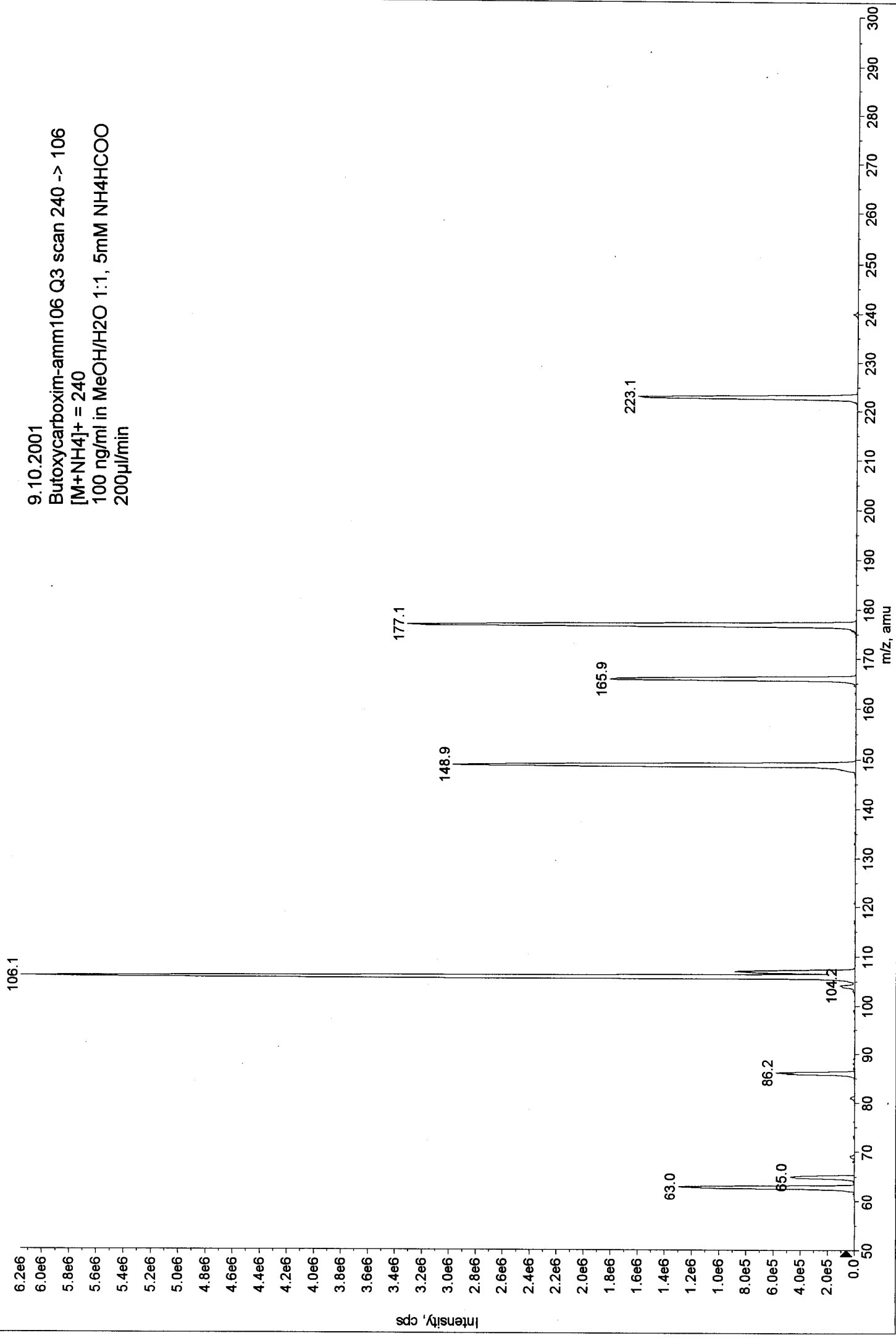
Fragmentation



9.10.2001
Butoxycarboxim-amm106 Q1 scan
[M+NH4]⁺ = 240
100 ng/ml in MeOH/H2O 1:1, 5mM NH4HCOO
200µl/min



9.10.2001
Butoxycarboxim-amm106 Q3 scan 240 -> 106
[M+NH4]⁺ = 240
100 ng/ml in MeOH/H₂O 1:1, 5mM NH₄HCOO
200µl/min



19.09.2001
Butoxycarboxim106 Q1scan
[M+H]⁺ = 223
100 ng/ml, MeOH/H₂O 1:1, 5mM NH₄HCOO
200µl/min

