

**BfR**

Risiken erkennen – Gesundheit schützen

MS/MS Parameters of Pesticides

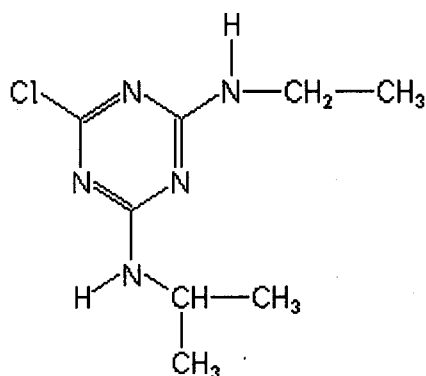
Analyte: Atrazin

CAS No.: 1912-24-9

Formula: C₈H₁₄ClN₅

Molecular mass (lowest isotopes): 215,10 amu

Structure:



Ionisation: ESI +

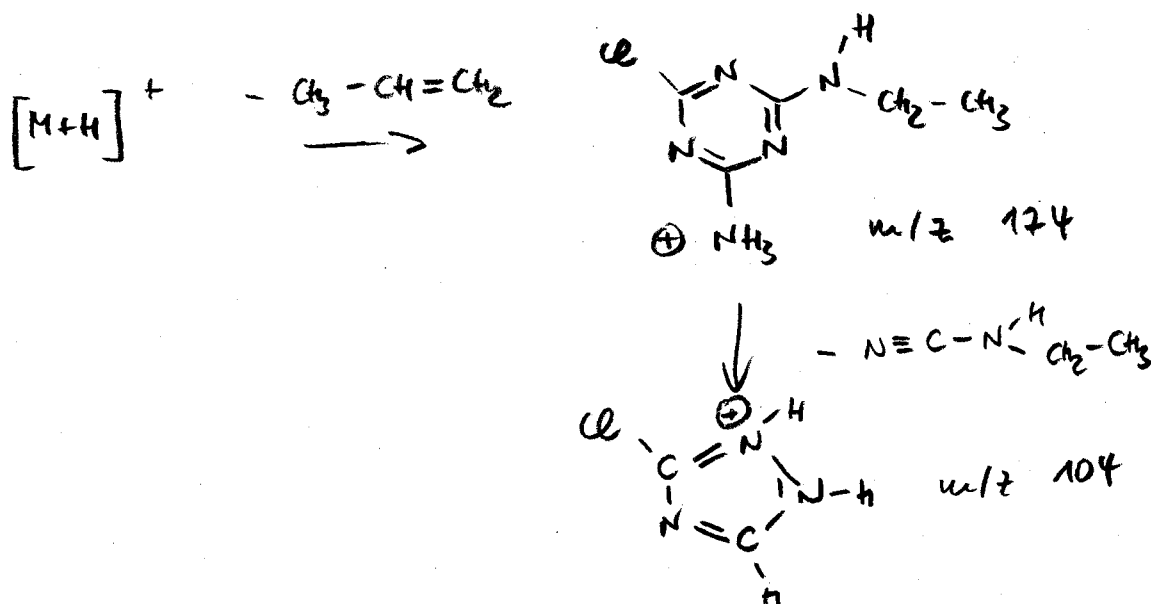
Quasimolecular ion: 216,1 amu = [M+H]⁺

Analyte sensitive parameter set (API 2000)

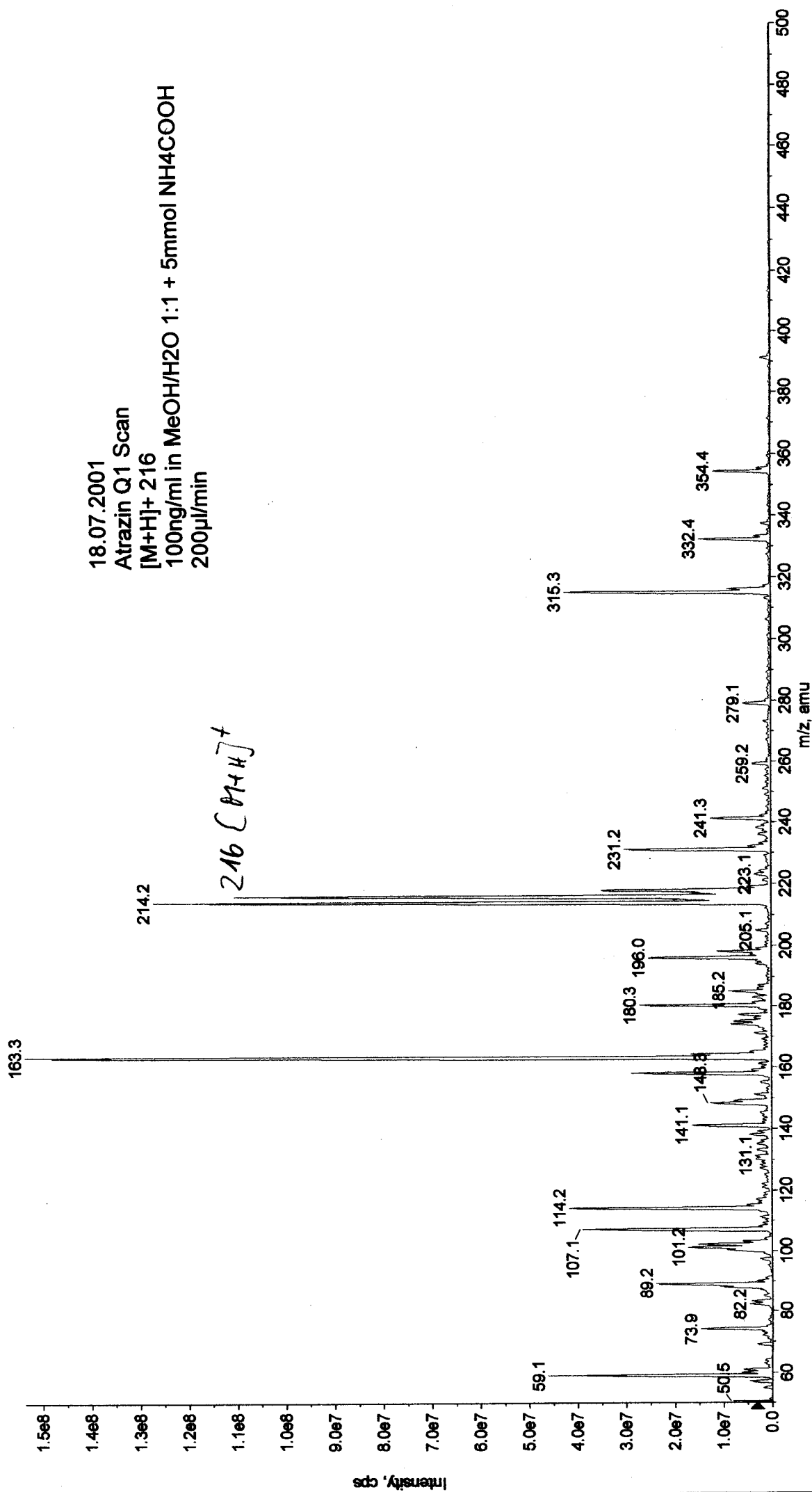
Transition	216,1 → 174,0	216,1 → 103,9
Declustering potential (DP) ^{*)}	21 V	21 V
Focusing potential (FP)	360 V	370 V
Entrance potential (EP)	11,0 V	12,0 V
Collision cell entrance potential (CEP)	12 V	12 V
Collision energy (CE)	25 V	27 V
Collision cell exit potential (CXP)	10 V	6 V

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

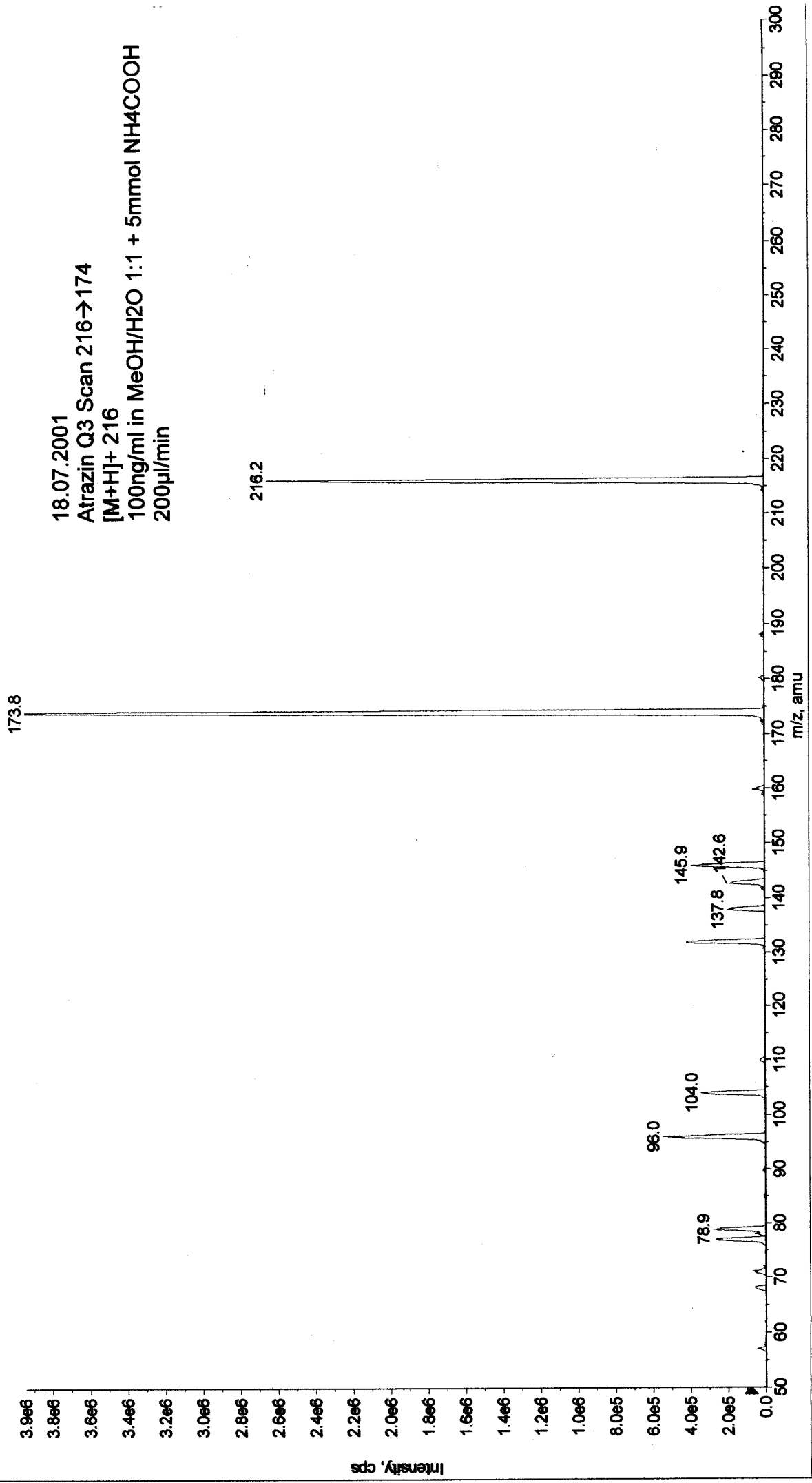
Fragmentation



18.07.2001
Atrazin Q1 Scan
[M+H]⁺ 216
100ng/ml in MeOH/H₂O 1:1 + 5mmol NH₄COOH
200µl/min



18.07.2001
Atrazin Q3 Scan 216→174
[M+H]⁺ 216
100ng/ml in MeOH/H₂O 1:1 + 5mmol NH₄COOH
200µl/min



18.07.2001
Atrazin Q3 Scan 216 → 104
[M+H]⁺ 216
100 ng/ml in MeOH/H₂O 1:1 + 5 mmol NH₄COOH
200 µl/min

