

**BfR**

Risiken erkennen – Gesundheit schützen

MS/MS Parameters of Pesticides

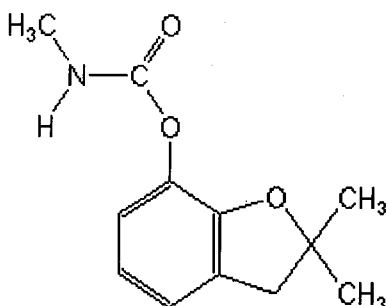
Analyte: Carbofuran

CAS No.: 1563-66-2

Formula: C₁₂H₁₅NO₃

Molecular mass (lowest isotopes): 221,11 amu

Structure:



Ionisation: ESI +

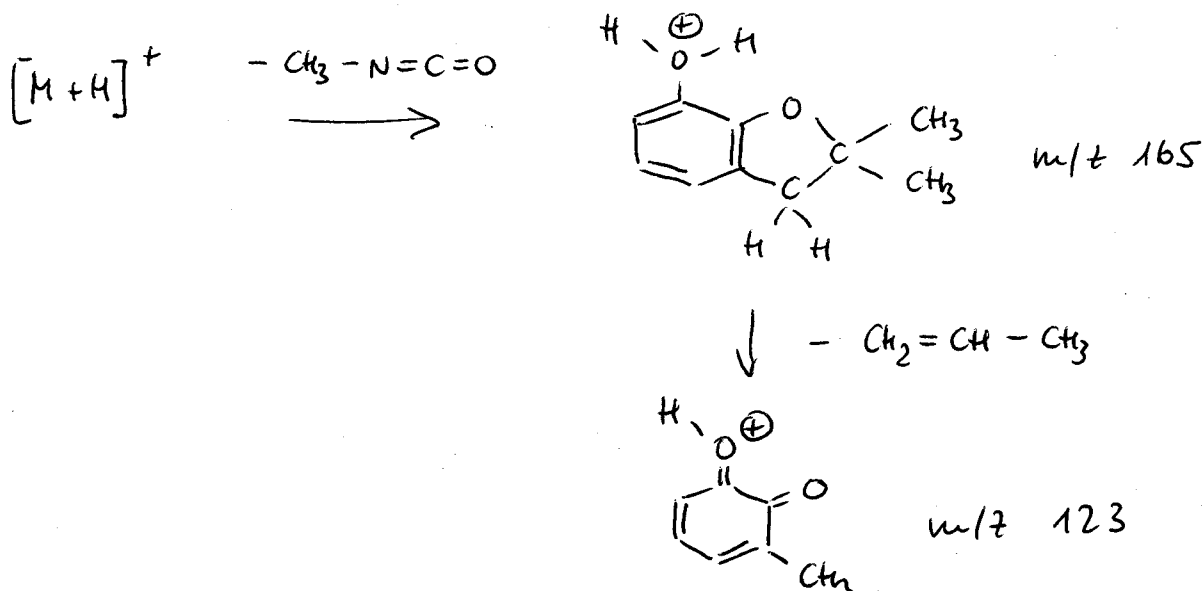
Quasimolecular ion: 222,1 amu = [M+H]⁺

Analyte sensitive parameter set (API 2000)

Transition	222,1 → 165,1	222,1 → 123,0
Declustering potential (DP) ^{*)}	16 V	16 V
Focusing potential (FP)	360 V	360 V
Entrance potential (EP)	9,5 V	10,0 V
Collision cell entrance potential (CEP)	12 V	12 V
Collision energy (CE)	17 V	29 V
Collision cell exit potential (CXP)	8 V	6 V

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

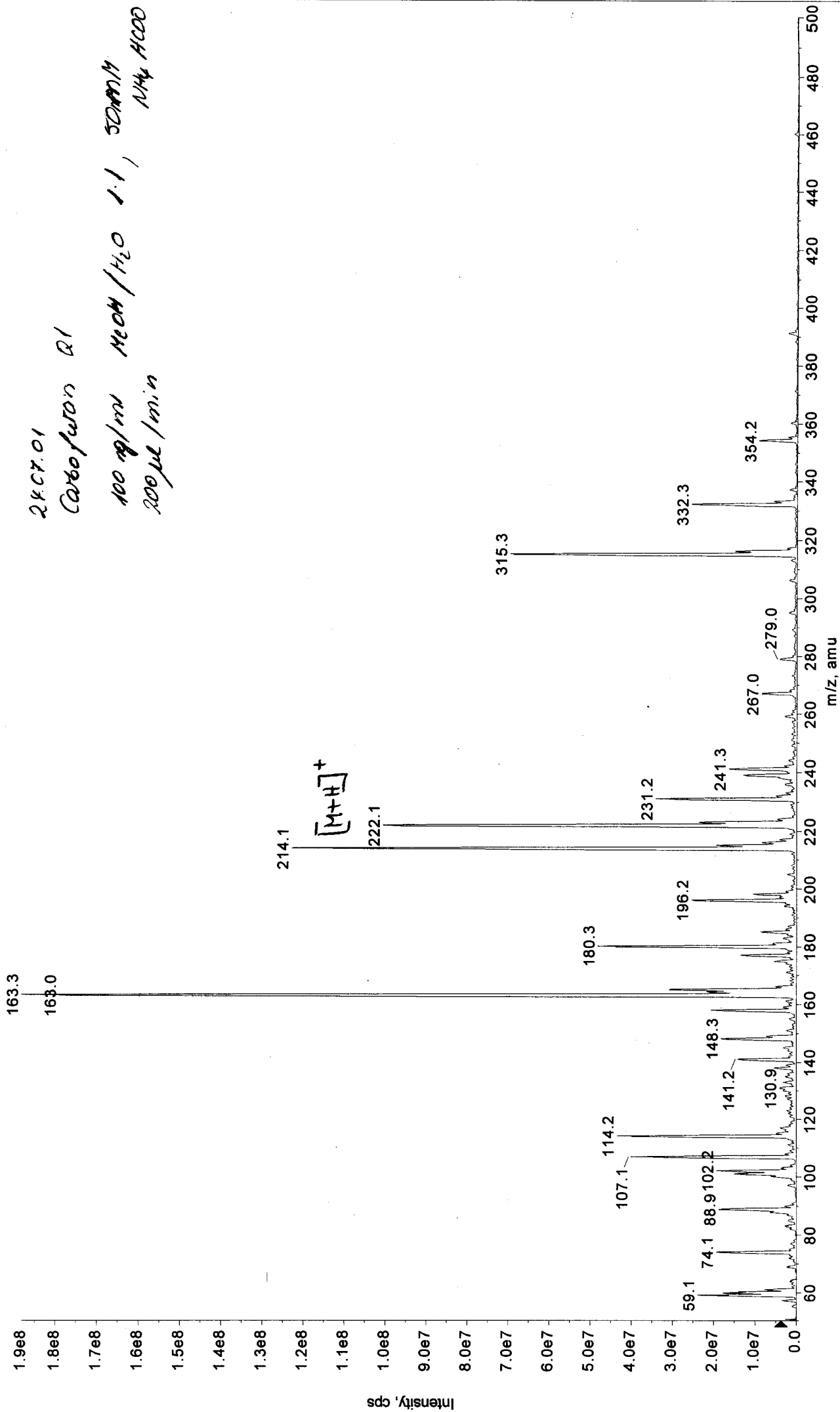
Fragmentation



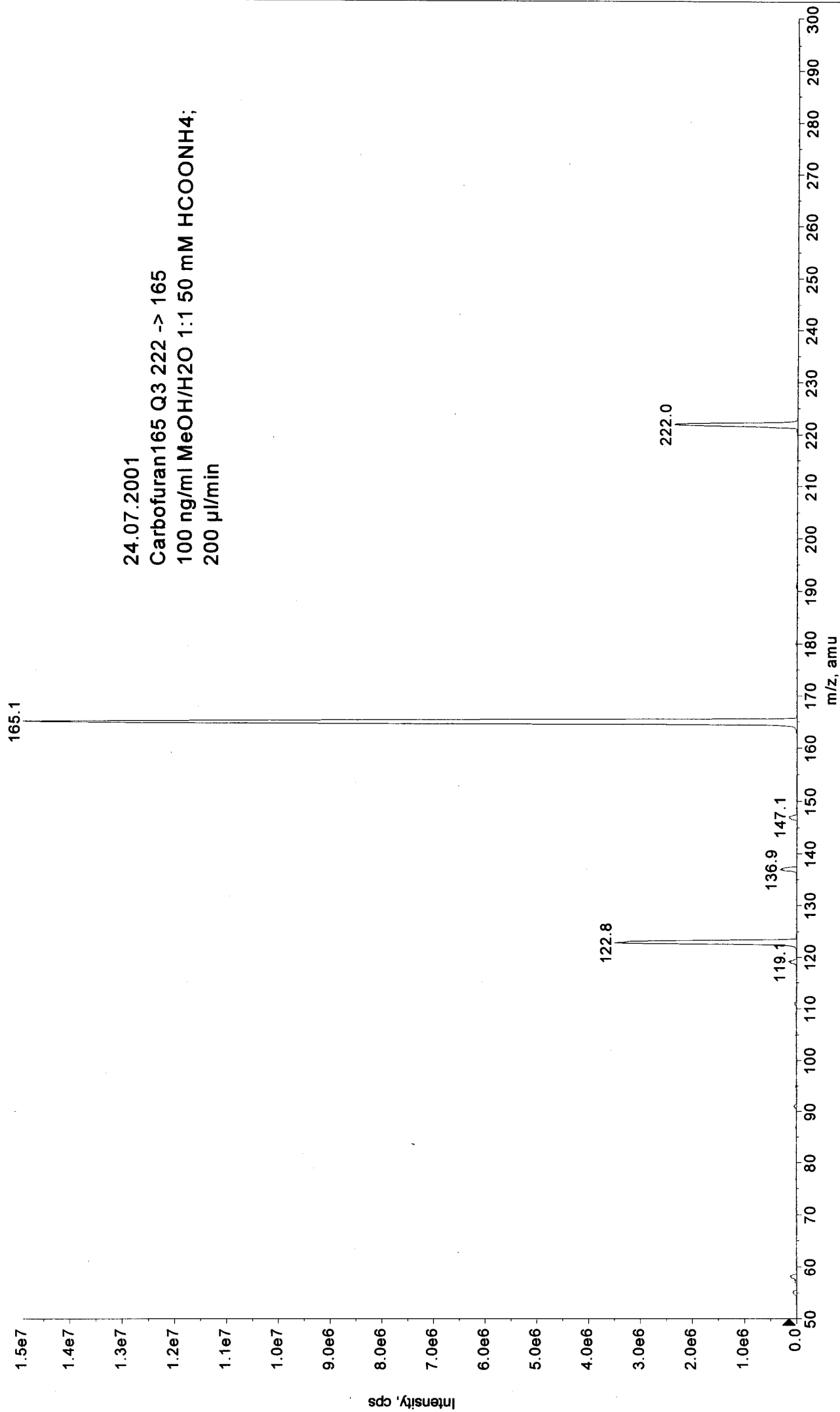
2407.01

Carboxylon Q1

100 ng/ml MeOH/H₂O 1:1, 50 mM NH₄ HCOO
200 µl/min



24.07.2001
Carbofuran165 Q3 222 -> 165
100 ng/ml MeOH/H2O 1:1 50 mM HCOONH4;
200 µl/min



24.07.2001
Carbofuran Q3 222 -> 123
100 ng/ml MeOH/H2O 1:1 50 mM HCOONH4;
200 µl/min

