

**BfR**

Risiken erkennen – Gesundheit schützen

## MS/MS Parameters of Pesticides

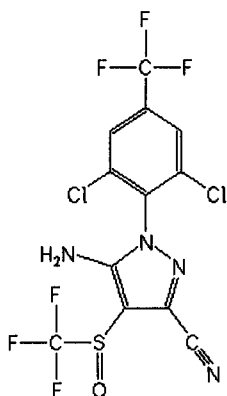
### Analyte: Fipronil

CAS No.: 120068-37-3

Formula: C<sub>12</sub>H<sub>4</sub>Cl<sub>2</sub>F<sub>6</sub>N<sub>4</sub>OS

Molecular mass (lowest isotopes): 435,9 amu

Structure:



Ionisation: ESI -

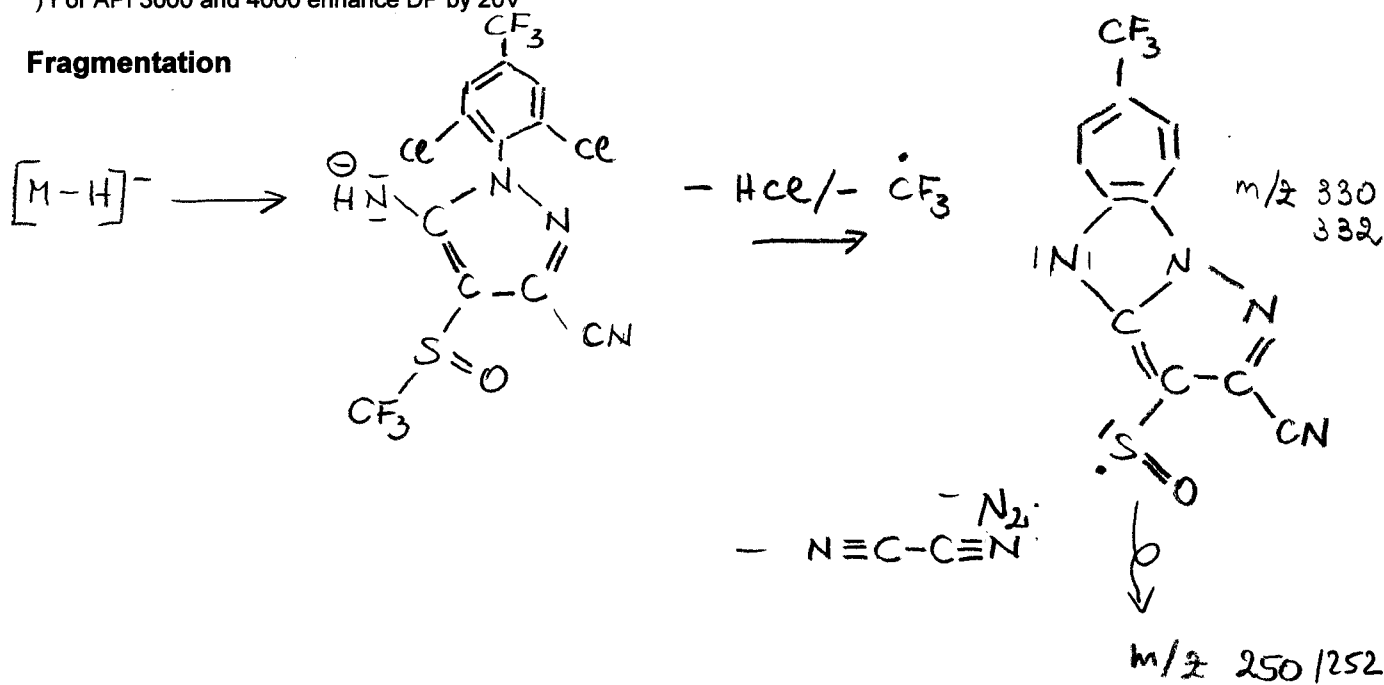
Quasimolecular ion: 435 amu = [M-H]<sup>-</sup>

Analyte sensitive parameter set (API 2000)

Transition	435 → 330	435 → 250
Declustering potential (DP) <sup>*)</sup>	-44V	-44 V
Focusing potential (FP)	-340 V	-320 V
Entrance potential (EP)	-10,0 V	-10,0 V
Collision cell entrance potential (CEP)	-22 V	-26 V
Collision energy (CE)	-18 V	-36 V
Collision cell exit potential (CXP)	-22 V	-18 V

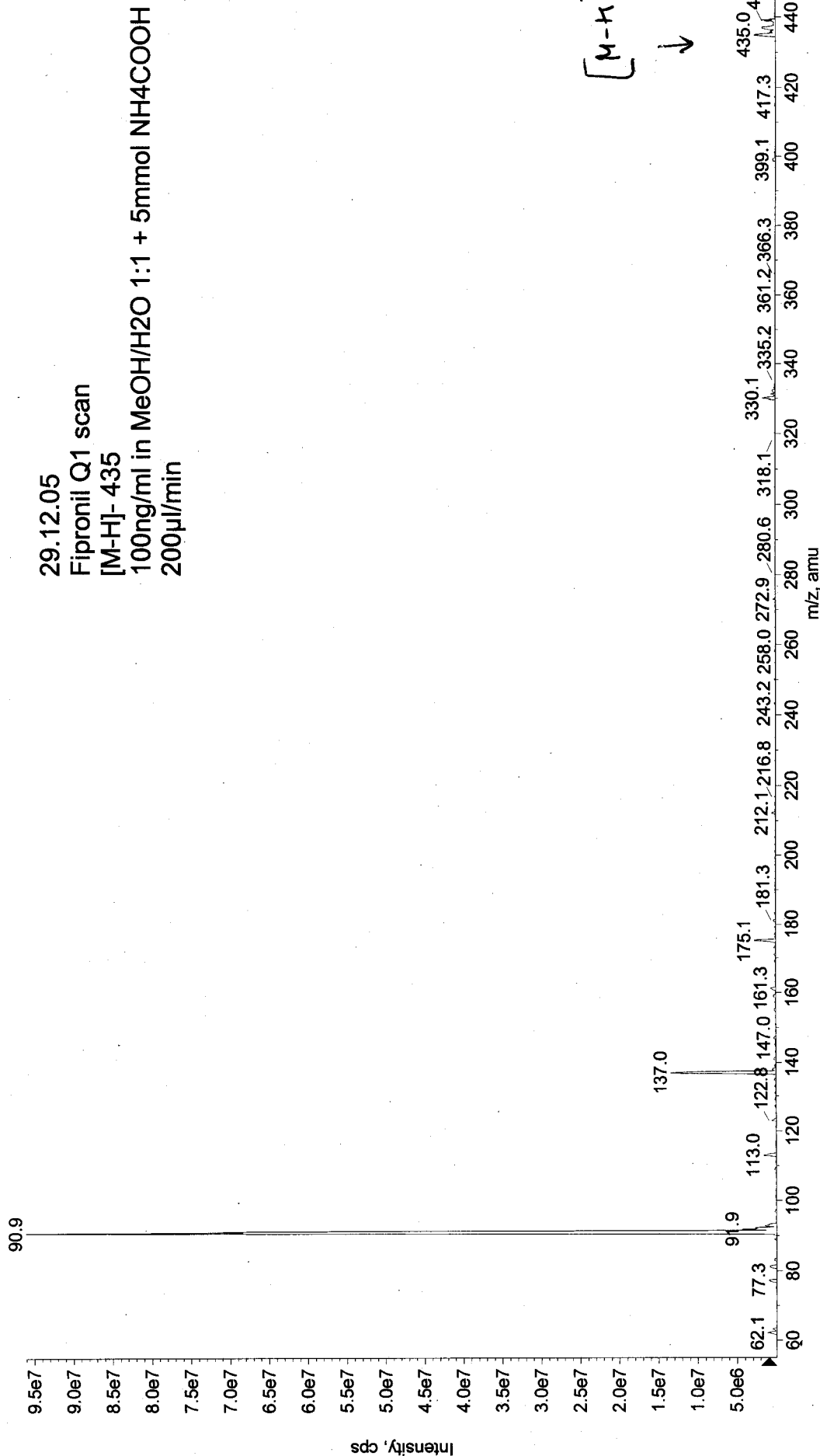
<sup>\*)</sup> For API 3000 and 4000 enhance DP by 20V

### Fragmentation



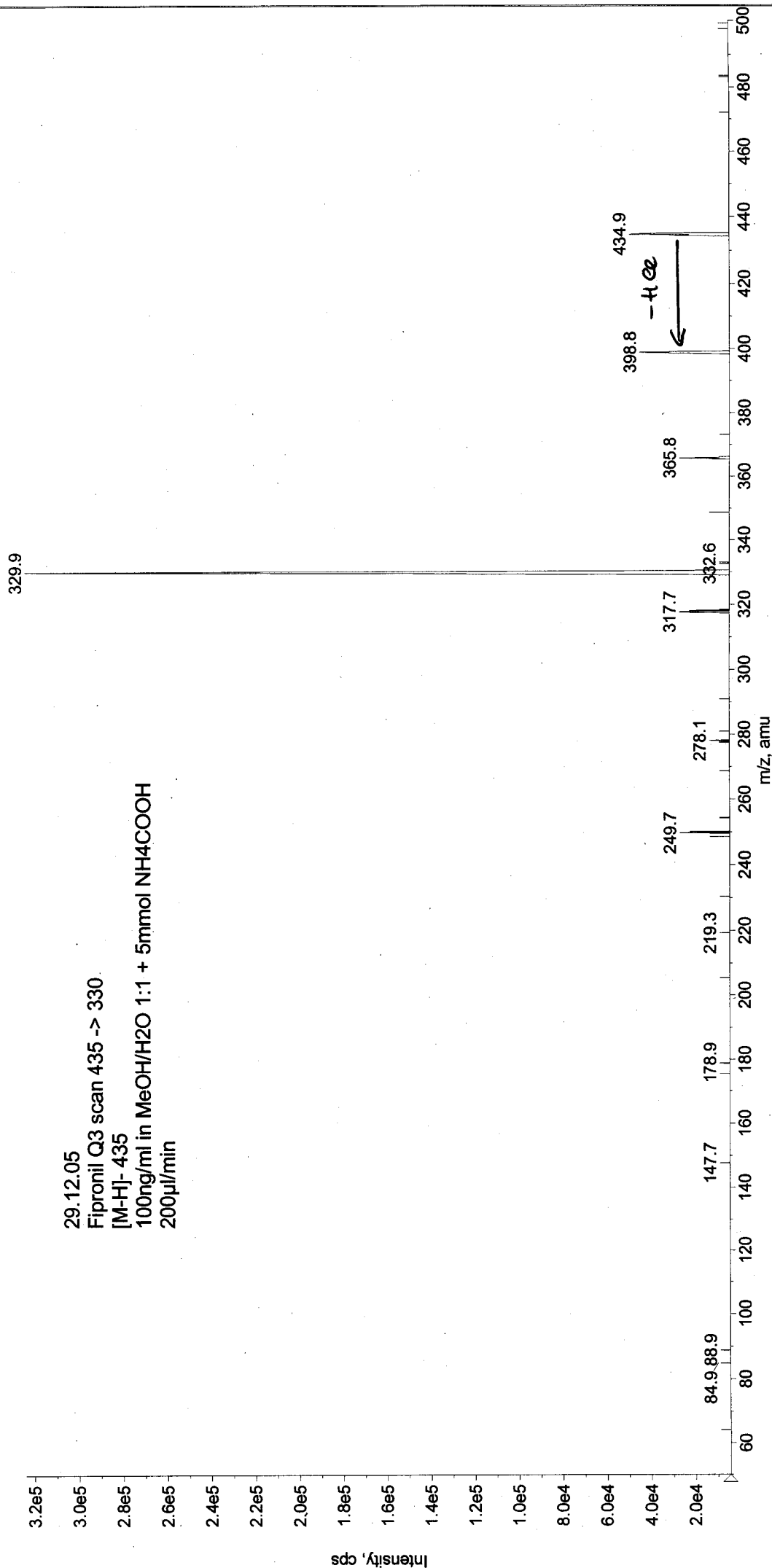
-Q1: 30 MCA scans from Sample 1 (TuneSampleID) of MT20051229113426.wiff (Turbo Spray)

Max. 9.6e7 cps



Max. 3.2e5 cps

-MS2 (435.00): 30 MCA scans from Sample 1 (TuneSampleID) of MT20051229114016.wiff (Turbo Spray)



-MS2 (437.00): 30 MCA scans from Sample 1 (TuneSampleID) of MT20051229114433.wiff (Turbo Spray)

Max. 9.9e4 cps

