

**BfR**

Risiken erkennen – Gesundheit schützen

## MS/MS Parameters of Pesticides

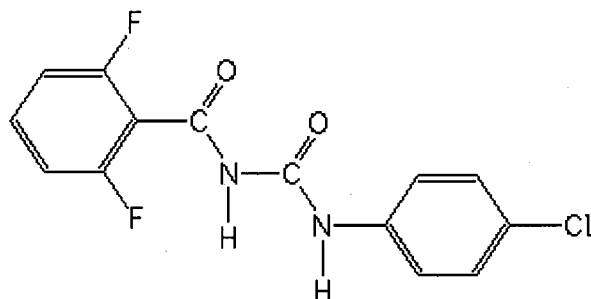
### Analyte: Diflubenzuron

CAS No.: 35367-38-5

Formula: C<sub>14</sub>H<sub>9</sub>ClF<sub>2</sub>N<sub>2</sub>O<sub>2</sub>

Molecular mass (lowest isotopes): 310,03 amu

Structure:



Ionisation: ESI -

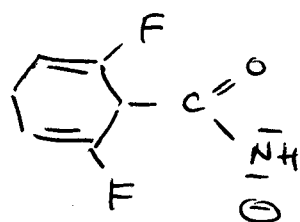
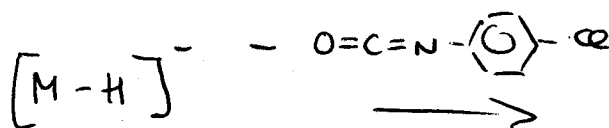
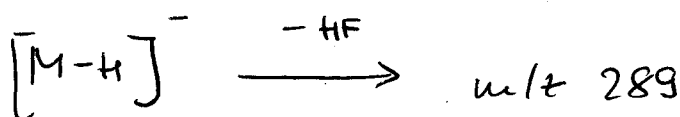
Quasimolecular ion: 309,0 amu = [M-H]<sup>-</sup>

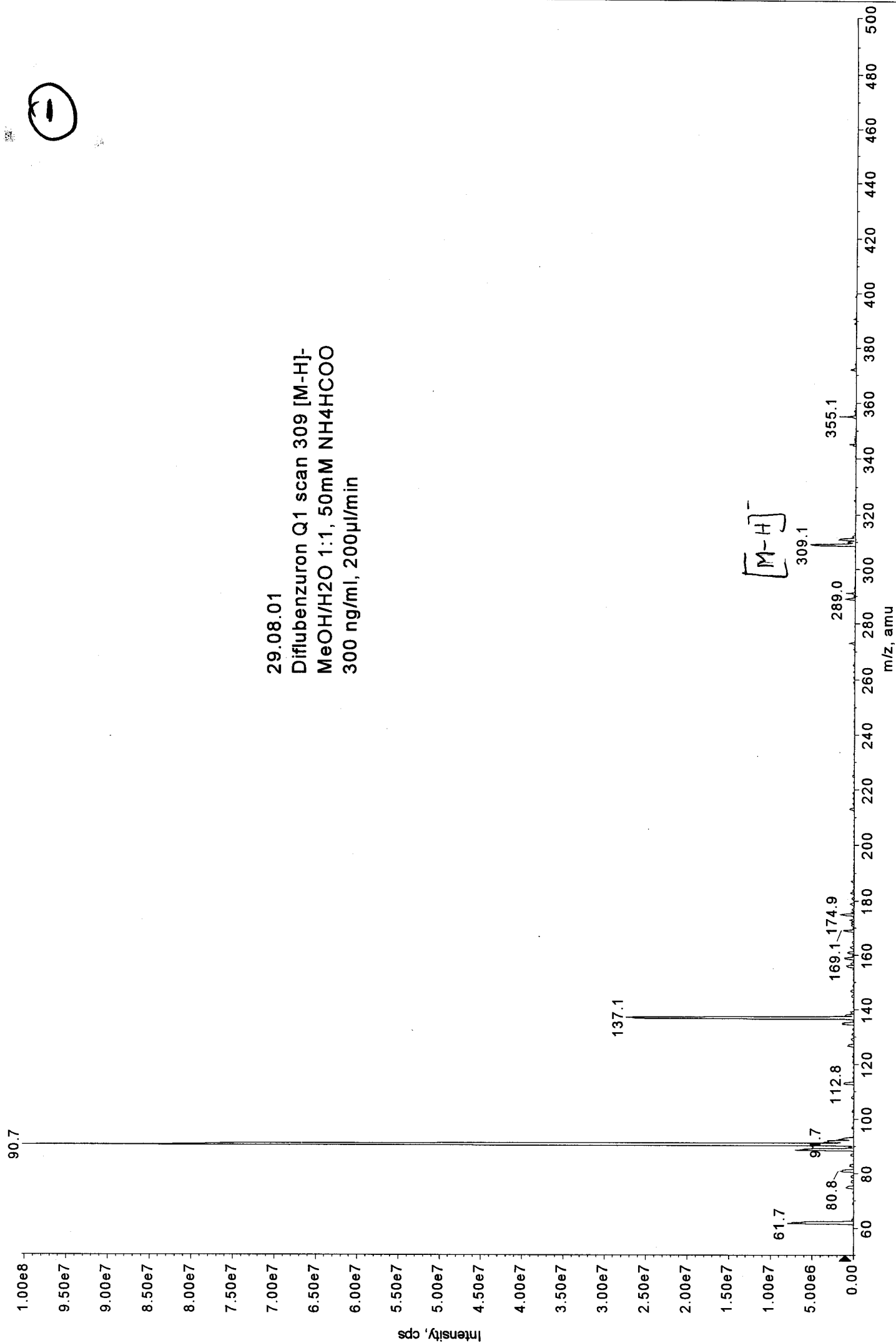
Analyte sensitive parameter set (API 2000)

Transition	309,0 → 155,9	309,0 → 288,9
Declustering potential (DP) <sup>*)</sup>	-26V	-26 V
Focusing potential (FP)	-340 V	-350 V
Entrance potential (EP)	-11,5 V	-10,0 V
Collision cell entrance potential (CEP)	-30 V	-24 V
Collision energy (CE)	-12 V	-8 V
Collision cell exit potential (CXP)	-10 V	-16 V

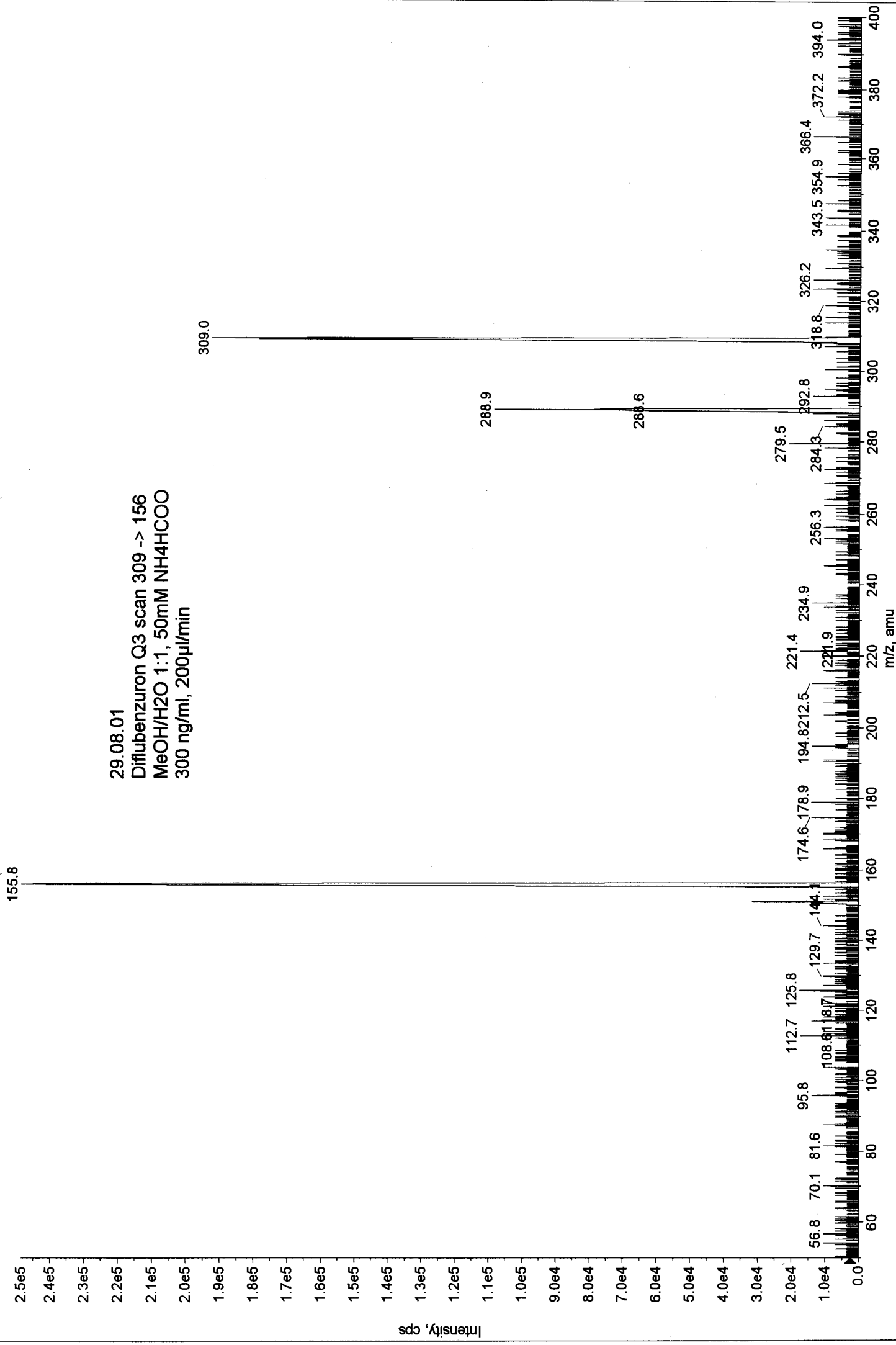
<sup>\*)</sup> For API 3000 and 4000 enhance DP by 20V

### Fragmentation

 $m/z$  156



29.08.01  
Diflubenuron Q3 scan 309 -> 156  
MeOH/H2O 1:1, 50mM NH4HCOO  
300 ng/ml, 200µl/min



29.08.01  
Diflubenuron 289 Q3 scan 309 -> 289  
MeOH/H2O 1:1, 50mM NH4HCOO  
300 ng/ml, 200µl/min

