

**BfR**

Risiken erkennen – Gesundheit schützen

## MS/MS Parameters of Pesticides

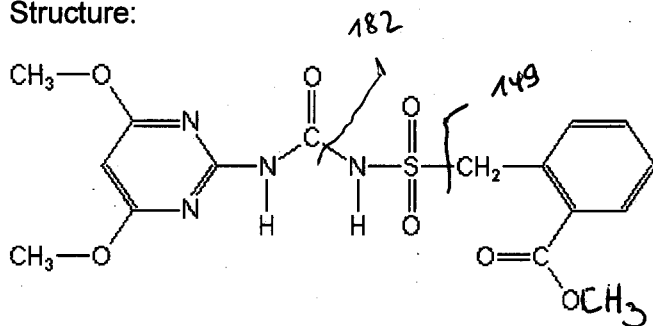
### Analyte: Bensulfuron-methyl

CAS No.: 83055-99-6

Formula: C<sub>16</sub>H<sub>18</sub>N<sub>4</sub>O<sub>7</sub>S

Molecular mass (lowest isotopes): 410,10 amu

Structure:



Ionisation: ESI +

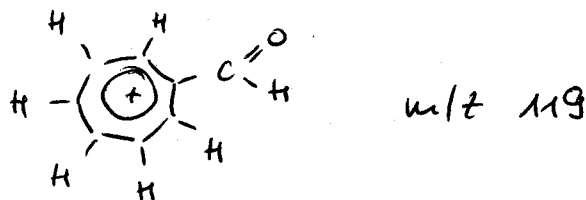
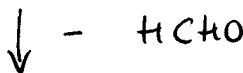
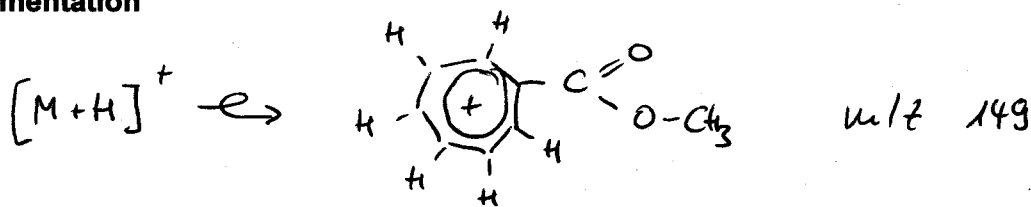
Quasimolecular ion: 411,1 amu = [M+H]<sup>+</sup>

Analyte sensitive parameter set (API 2000)

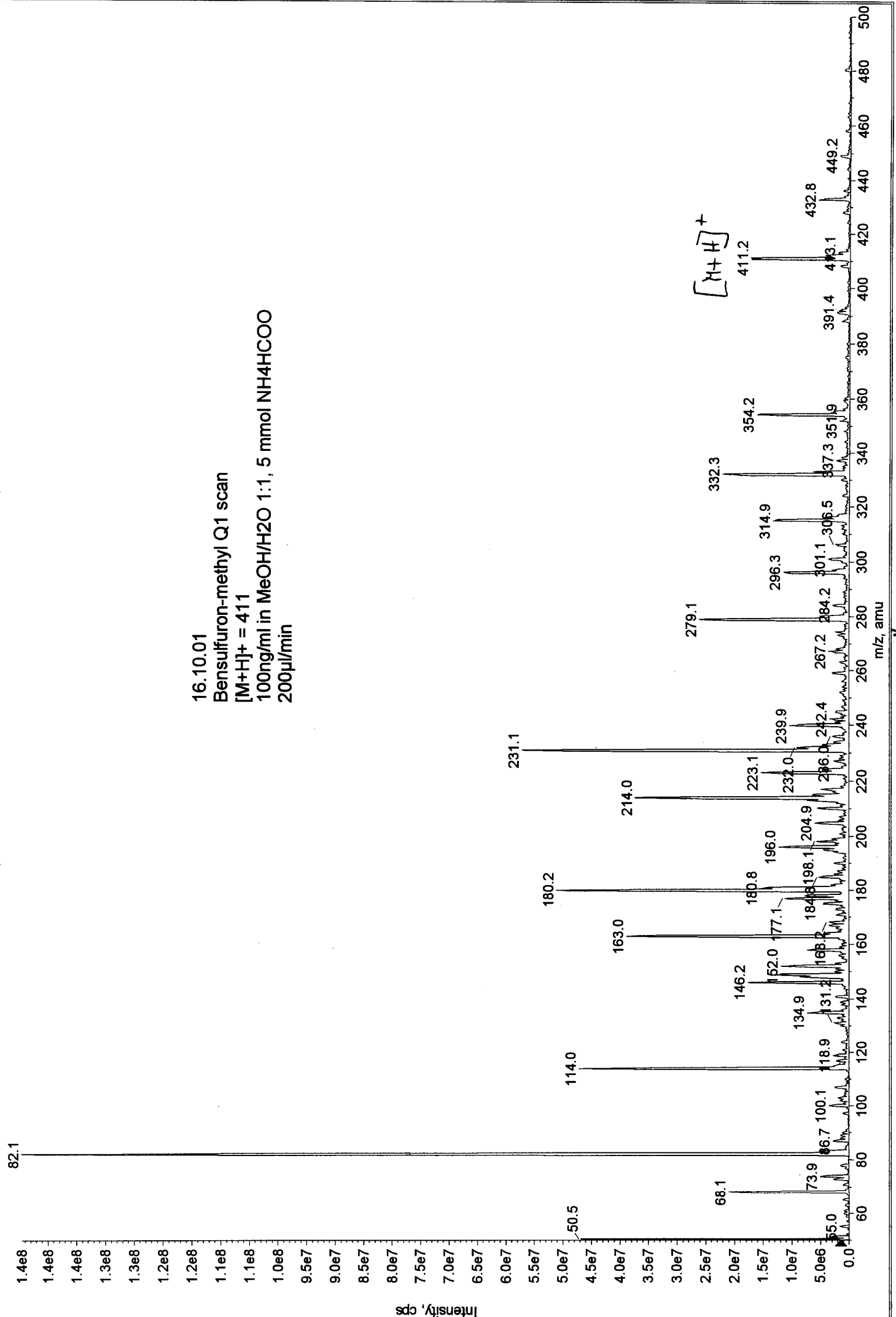
Transition	411,1 → 148,9	411,1 → 119,0
Declustering potential (DP) <sup>*)</sup>	46 V	46 V
Focusing potential (FP)	360 V	360 V
Entrance potential (EP)	10,0 V	8,5 V
Collision cell entrance potential (CEP)	24 V	22 V
Collision energy (CE)	27 V	51 V
Collision cell exit potential (CXP)	8 V	6 V

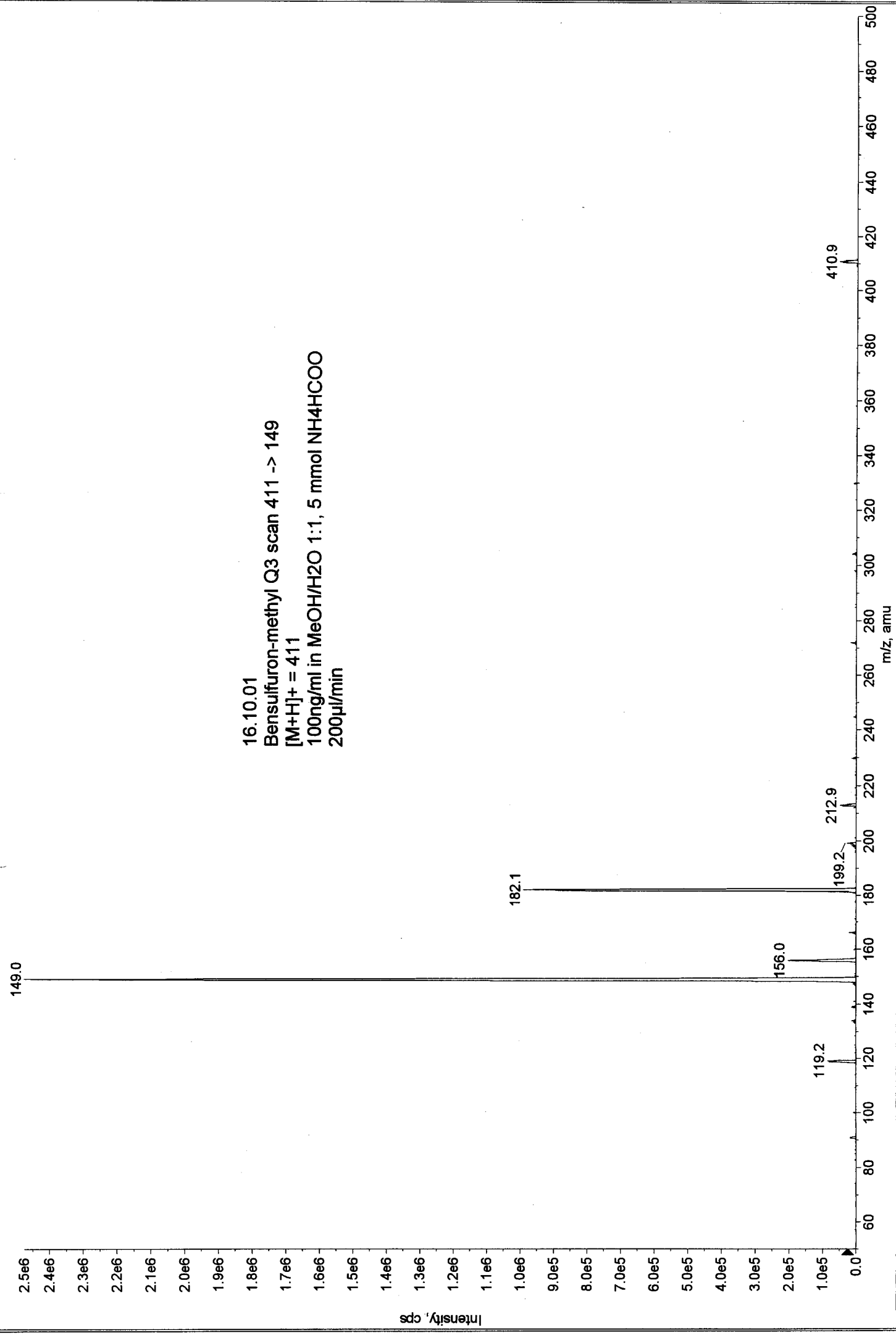
<sup>\*)</sup> For API 3000 and 4000 enhance DP by 20V

### Fragmentation

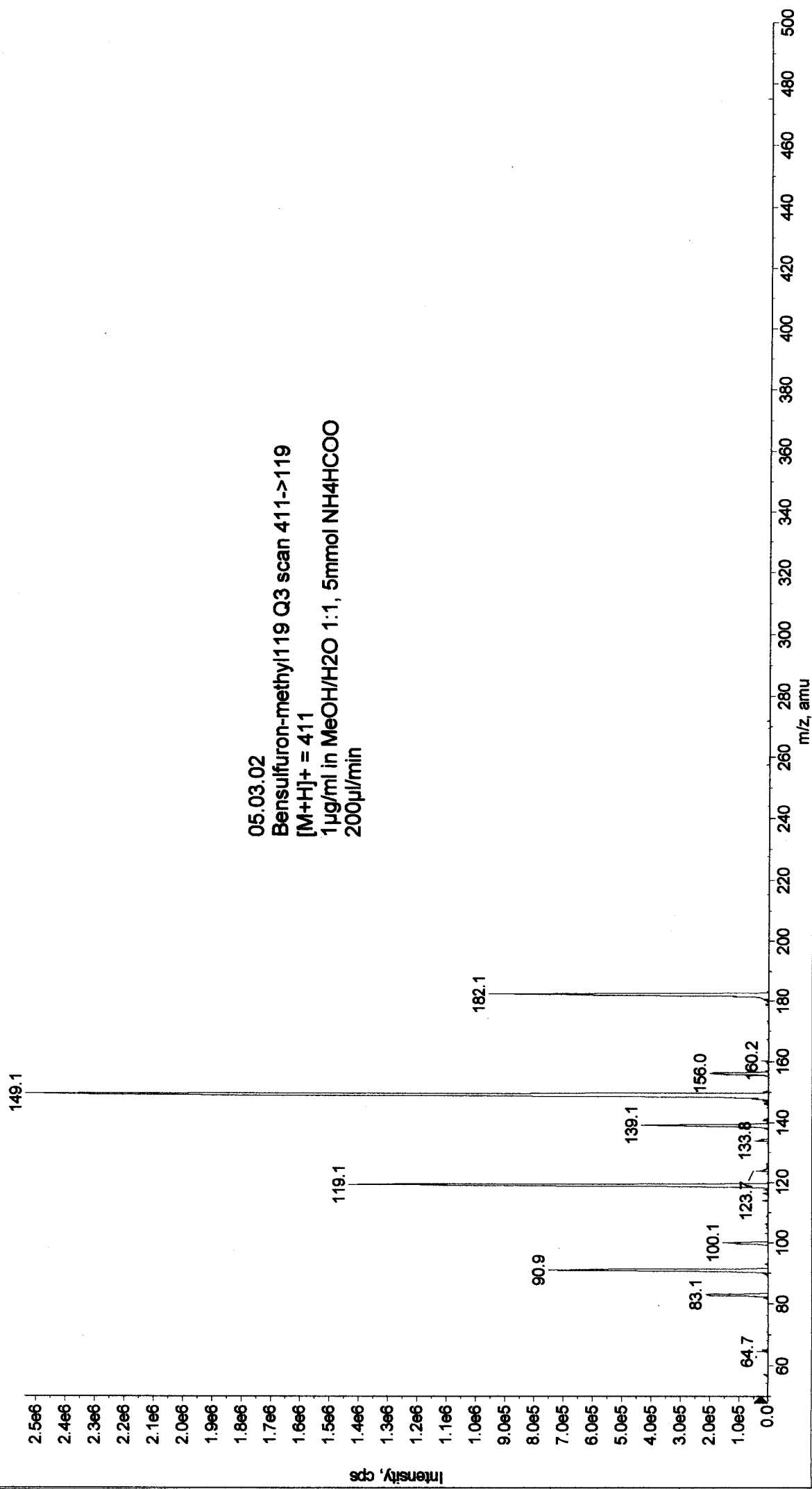


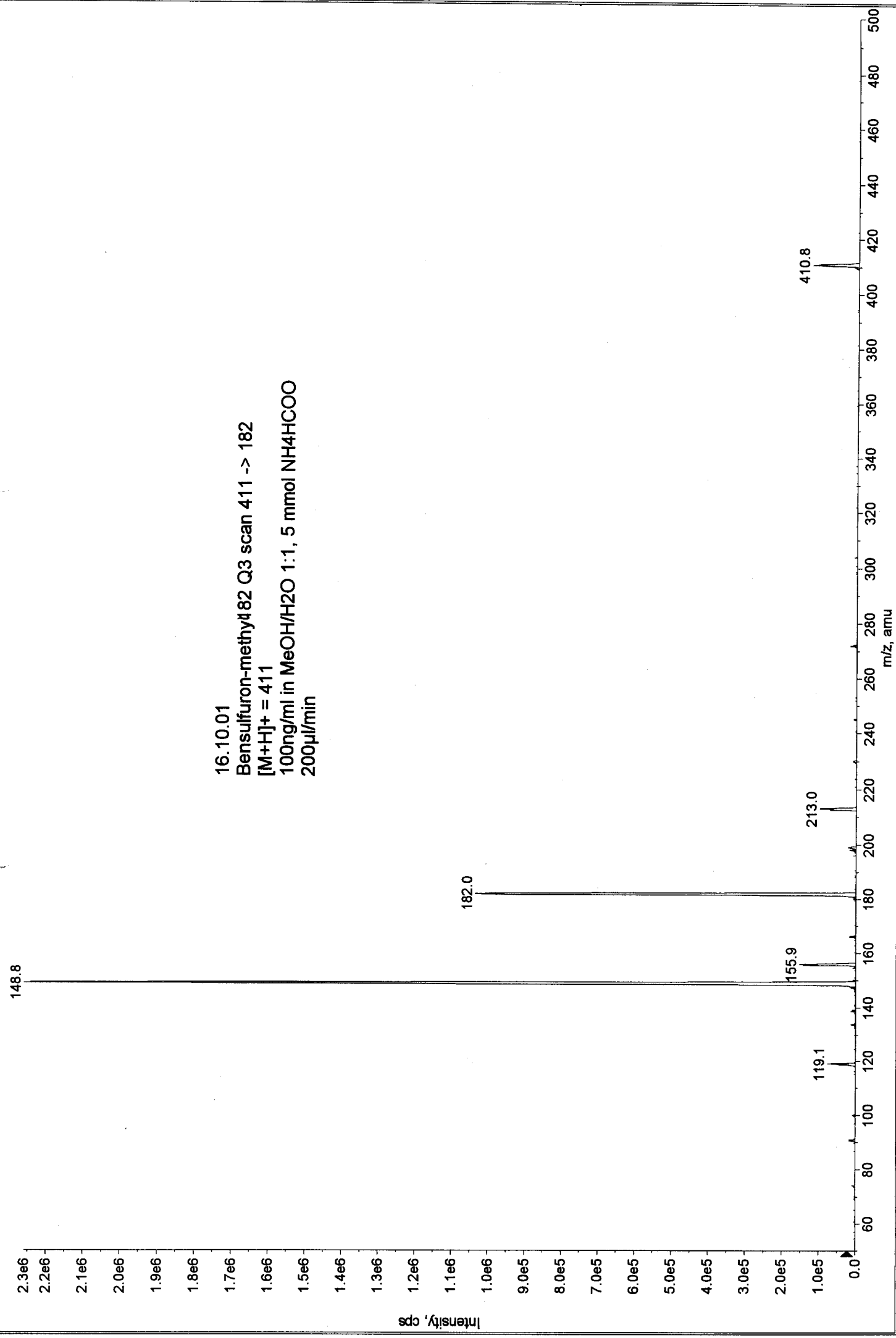
16.10.01  
Bensulfuron-methyl Q1 scan  
[M+H]<sup>+</sup> = 411  
100ng/ml in MeOH/H<sub>2</sub>O 1:1, 5 mmol NH<sub>4</sub>HCOO  
200µl/min





16.10.01  
Bensulfuron-methyl Q3 scan 411 -> 149  
[M+H]<sup>+</sup> = 411  
100ng/ml in MeOH/H<sub>2</sub>O 1:1, 5 mmol NH<sub>4</sub>HCOO  
200µl/min





16.10.01  
Bensulfuron-methyl82 Q3 scan 411 -> 182  
[M+H]<sup>+</sup> = 411  
100ng/ml in MeOH/H<sub>2</sub>O 1:1, 5 mmol NH<sub>4</sub>HCOO  
200µl/min