

**BfR**

Risiken erkennen – Gesundheit schützen

## MS/MS Parameters of Pesticides

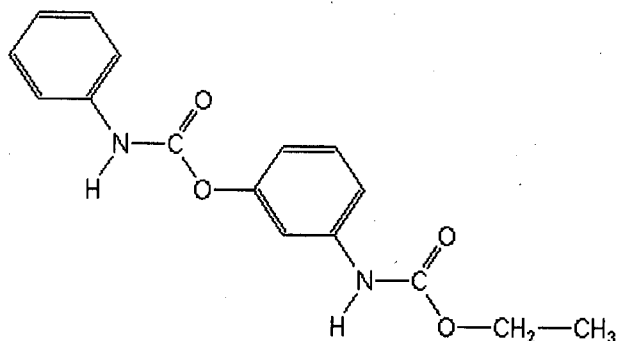
### Analyte: Desmedipham

CAS No.: 13684-56-5

Formula: C<sub>16</sub>H<sub>16</sub>N<sub>2</sub>O<sub>4</sub>

Molecular mass (lowest isotopes): 300,11 amu

Structure:



Ionisation: ESI +

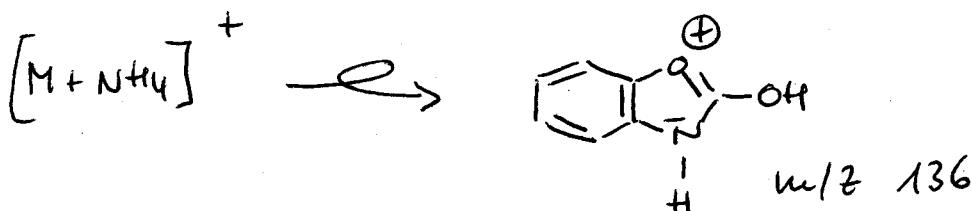
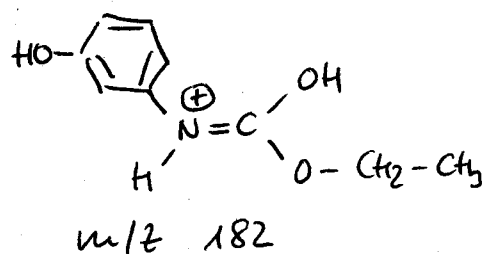
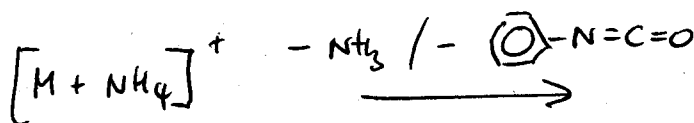
Quasimolecular ion: 318,1 amu = [M+NH<sub>4</sub>]<sup>+</sup>

Analyte sensitive parameter set (API 2000)

Transition	318,1 → 182,2	318,1 → 136,0
Declustering potential (DP) <sup>*)</sup>	24 V	24 V
Focusing potential (FP)	340 V	360 V
Entrance potential (EP)	10,0 V	11,5 V
Collision cell entrance potential (CEP)	22 V	22 V
Collision energy (CE)	19 V	33 V
Collision cell exit potential (CXP)	8 V	6 V

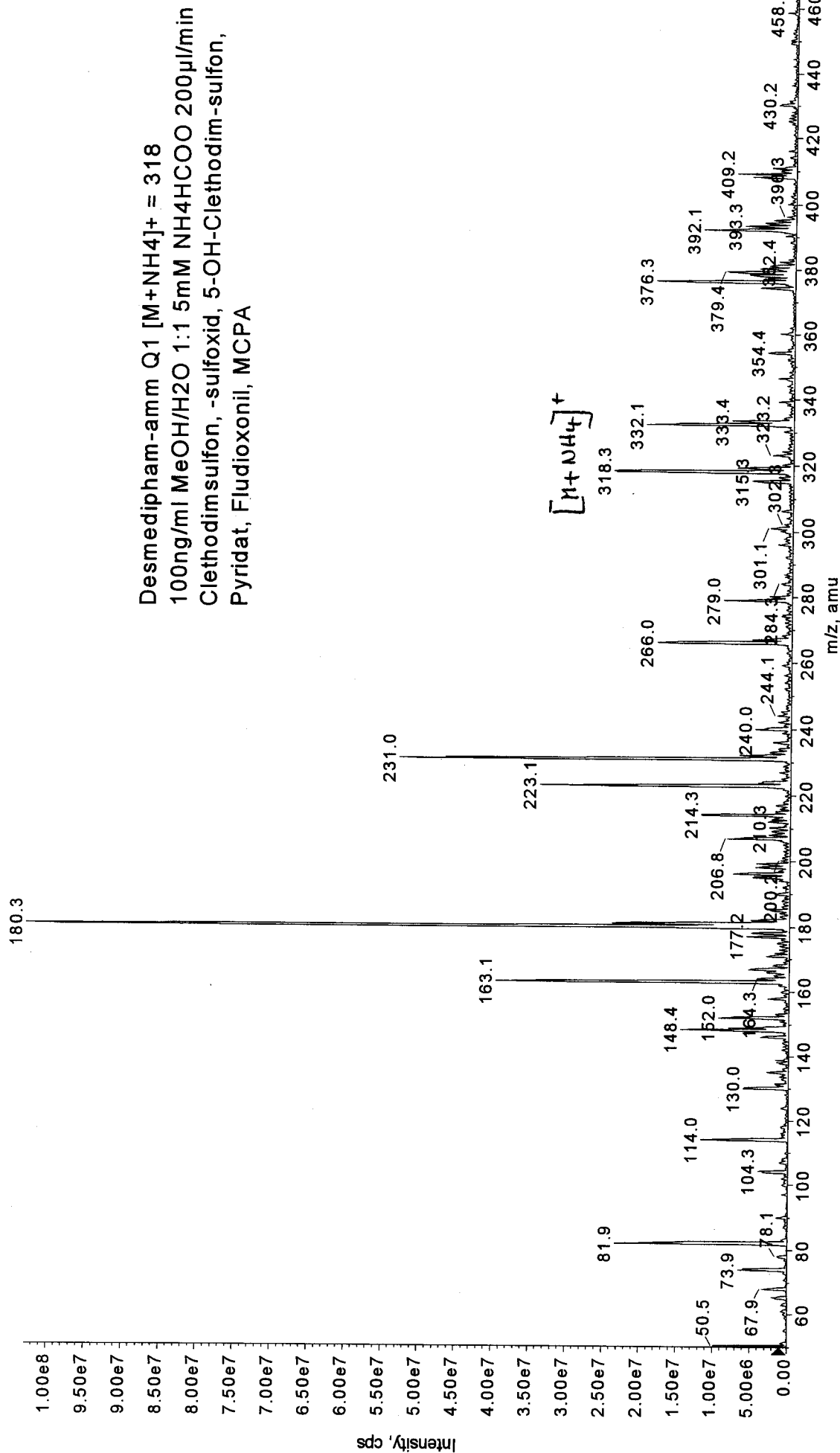
<sup>\*)</sup> For API 3000 and 4000 enhance DP by 20V

### Fragmentation



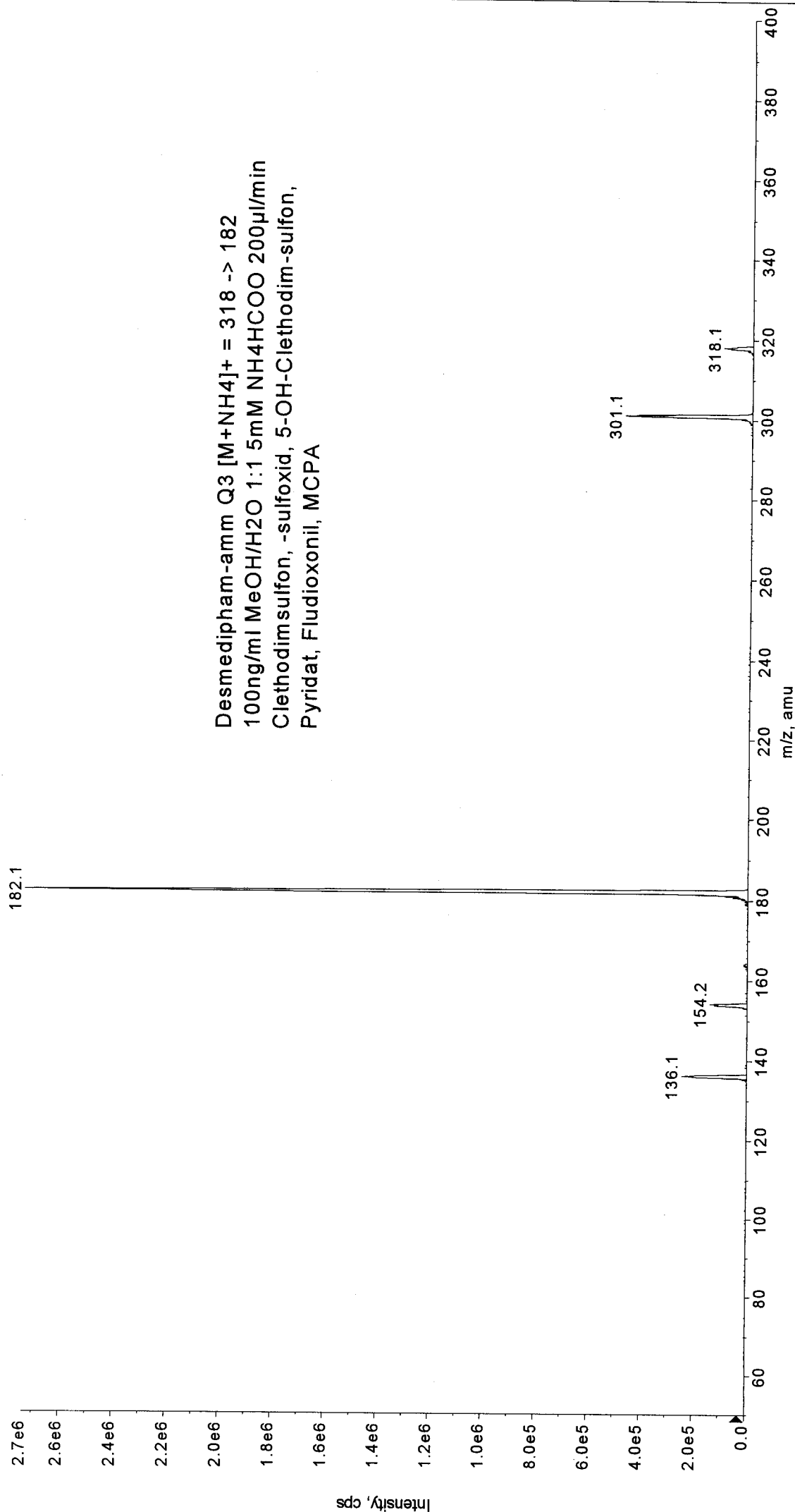
\*Q1: 30 MCA scans from Sample 1 of MT20020130131723.wiff

Max 1.0e8 cps



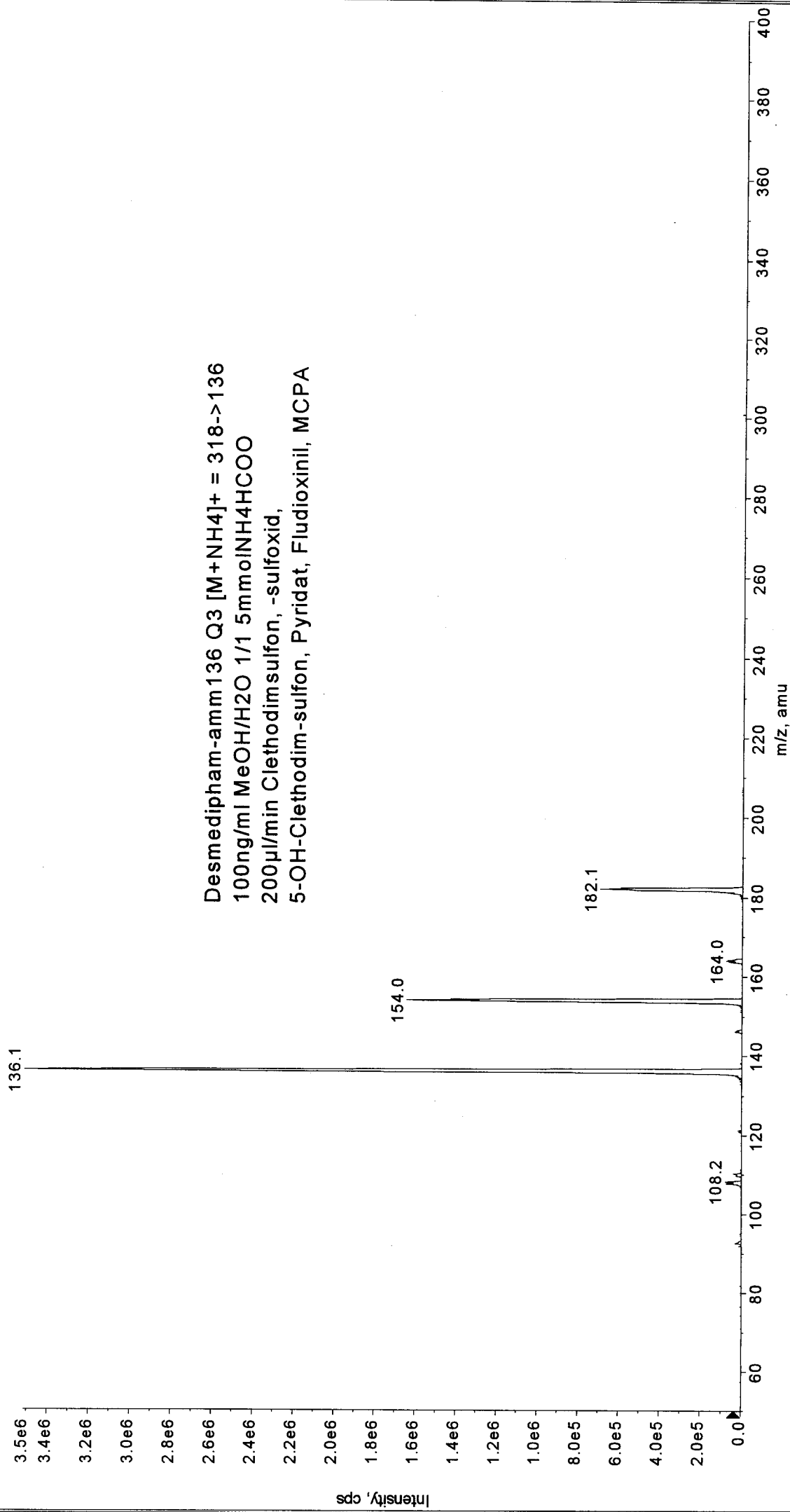
+Product (318.2): 30 MCA scans from Sample 1 of MT20020130132508.wiff

Max 2.7e6 cps



\*Product (316.0): 30 MCA scans from Sample 1 of MT20020311123025.wiff

Max 3.5e6 cps



Desmedipham-amm136 Q3 [M+NH4]<sup>+</sup> = 318->136  
100ng/ml MeOH/H2O 1/1 5mmolNH4HCOO  
200µl/min Clethodimsulfon, -sulfoxid,  
5-OH-Clethodim-sulfon, Pyridat, Fludioxinil, MCPA

\*Product (301.2): 30 MCA scans from Sample 1 of MT20020130133344.wiff

Max 2.0e5 cps

