

**BfR**

Risiken erkennen – Gesundheit schützen

MS/MS Parameters of Pesticides

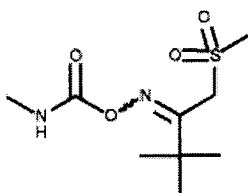
Analyte: Thiofanox-sulfon

CAS No.: 39184-59-3

Formula: C₉H₁₈N₂O₄S

Molecular mass (lowest isotopes): 250,10 amu

Structure:



Ionisation: ESI +

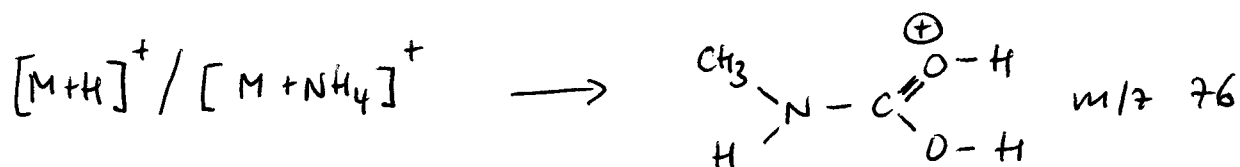
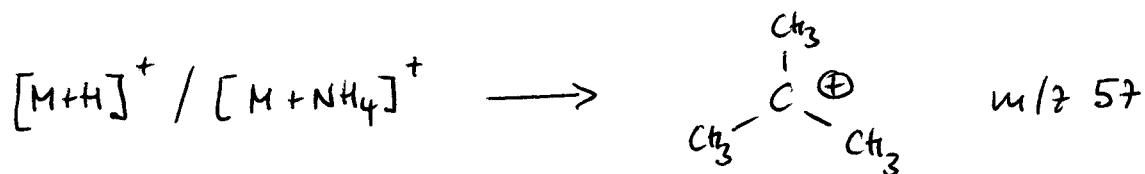
Quasimolecular ion: 268,1 amu = [M+NH₄]⁺

Analyte sensitive parameter set (API 2000)

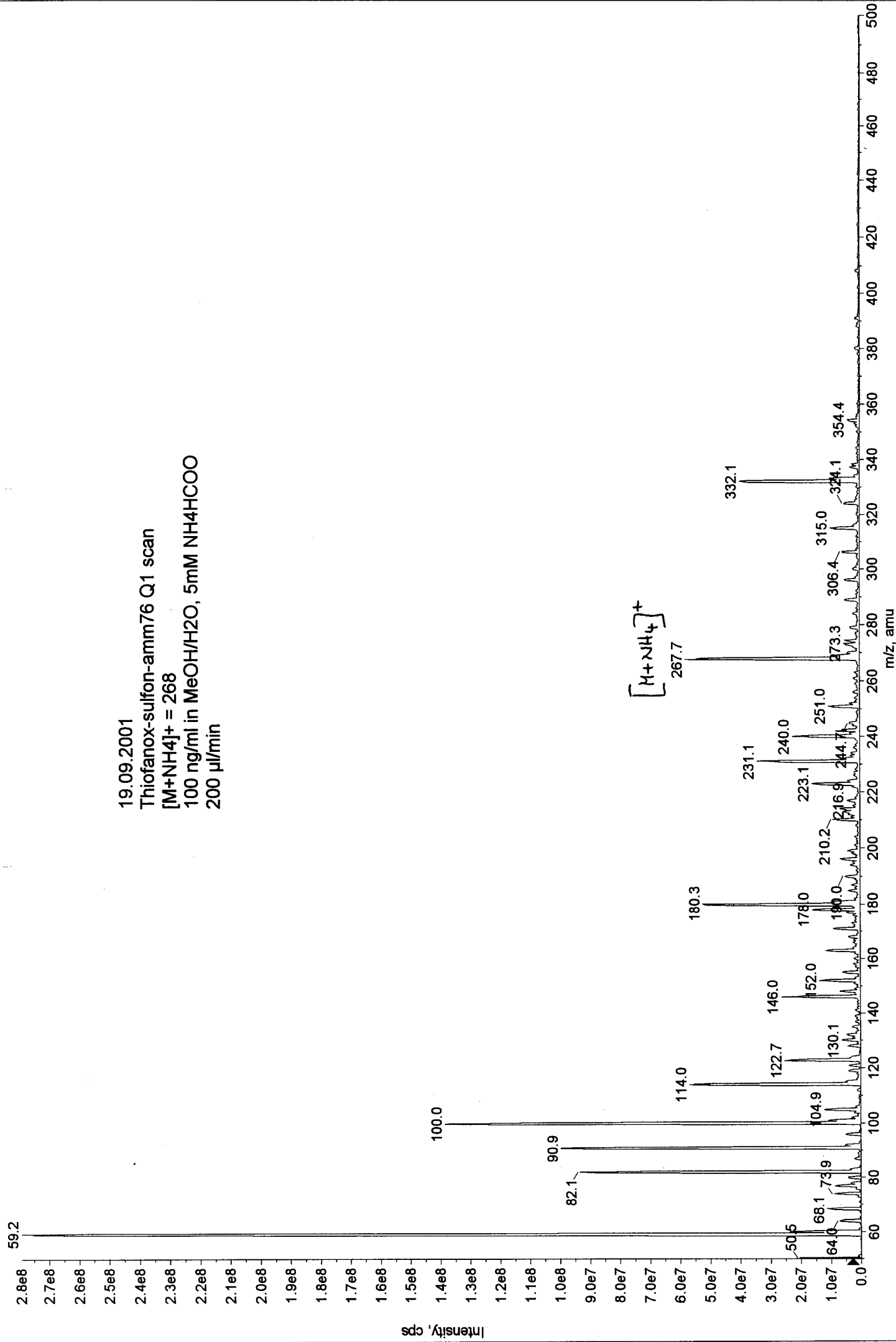
Transition	268,1 → 57,0	268,1 → 75,9
Declustering potential (DP) ^{*)}	16 V	16 V
Focusing potential (FP)	360 V	360 V
Entrance potential (EP)	10,0 V	10,0 V
Collision cell entrance potential (CEP)	20 V	18 V
Collision energy (CE)	29 V	17 V
Collision cell exit potential (CXP)	8 V	12 V

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

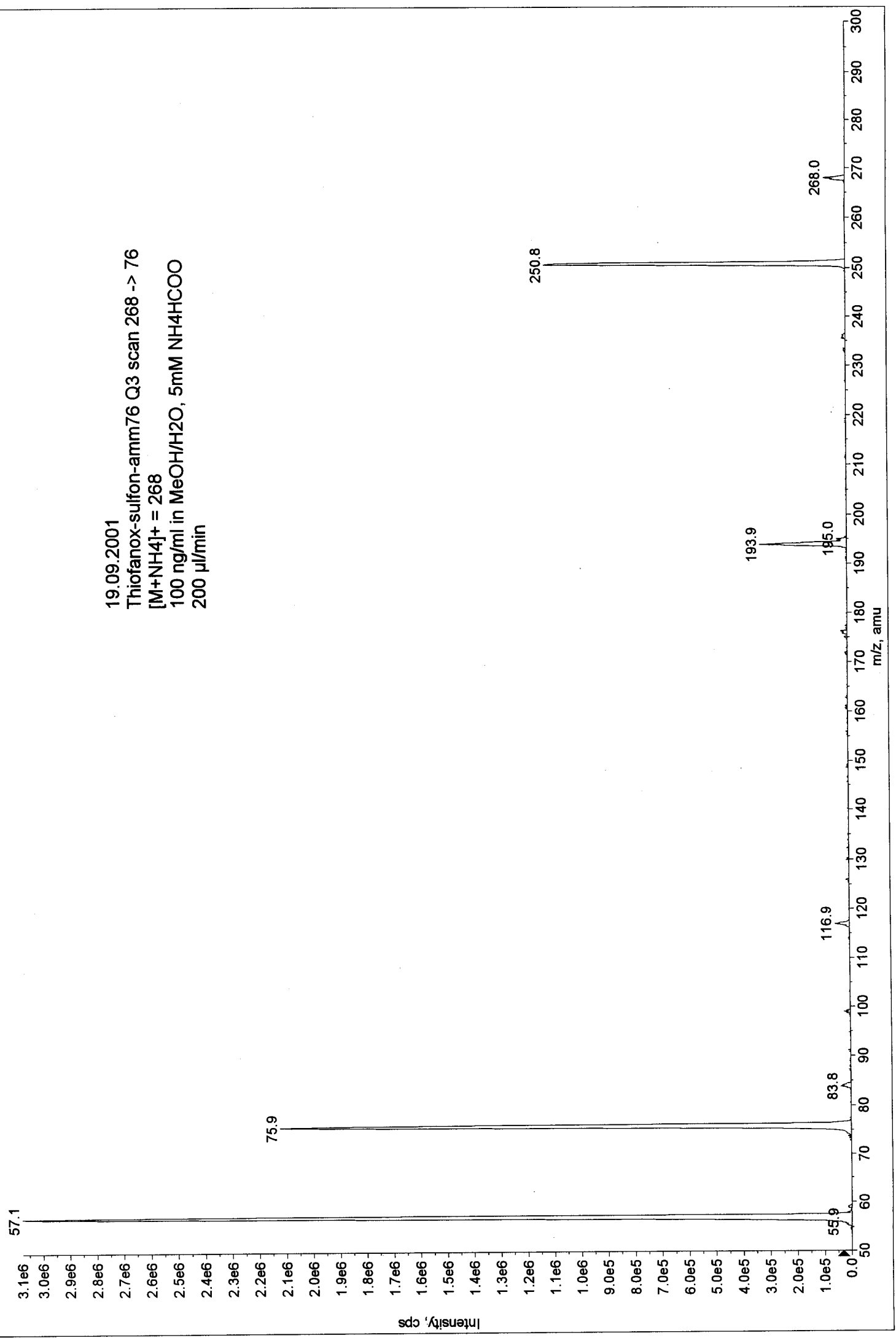
Fragmentation



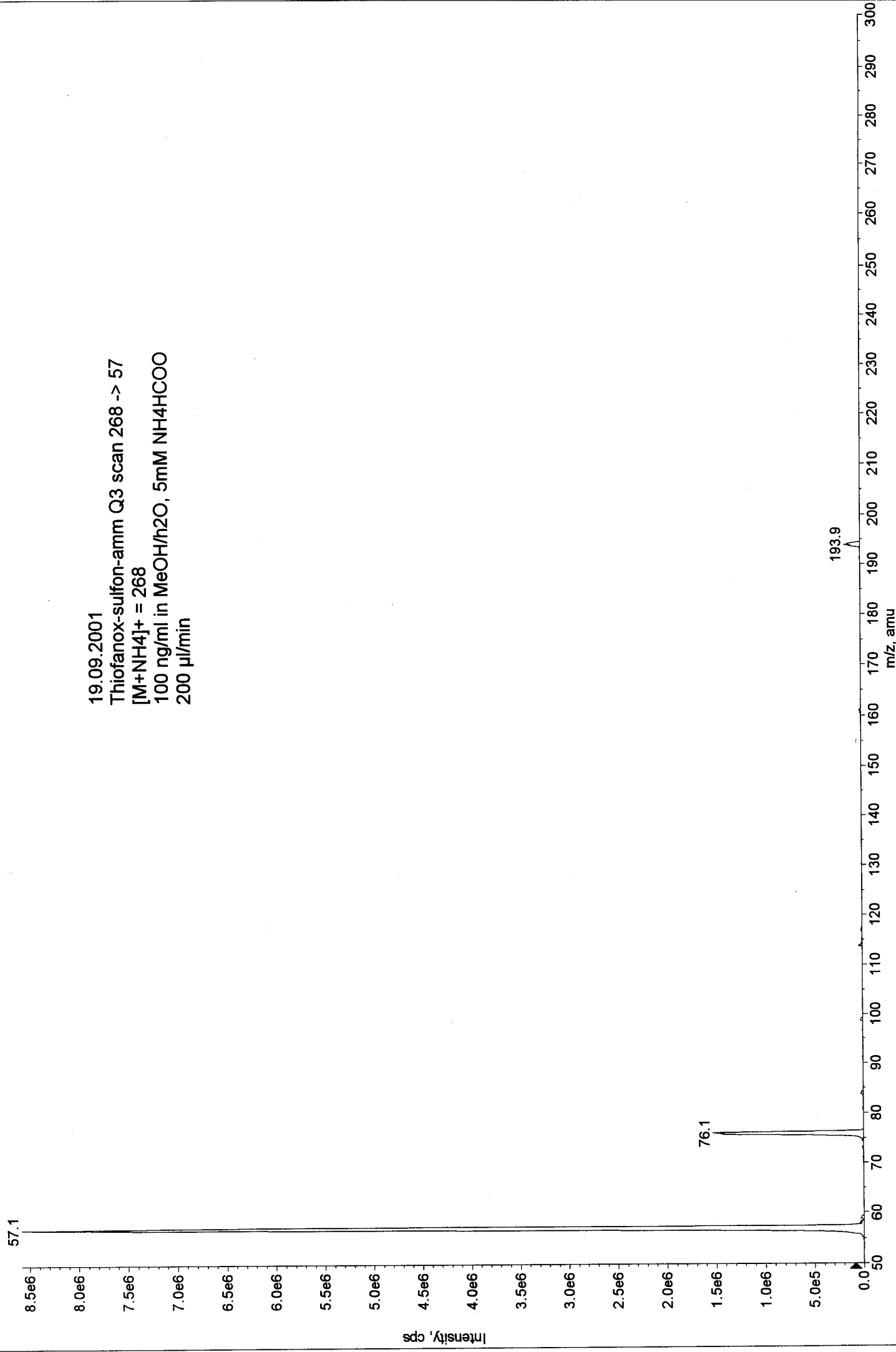
19.09.2001
 Thiofanox-sulfon-amm76 Q1 scan
 $[M+NH_4]^+ = 268$
 100 ng/ml in MeOH/H₂O, 5mM NH₄HCOO
 200 μ l/min



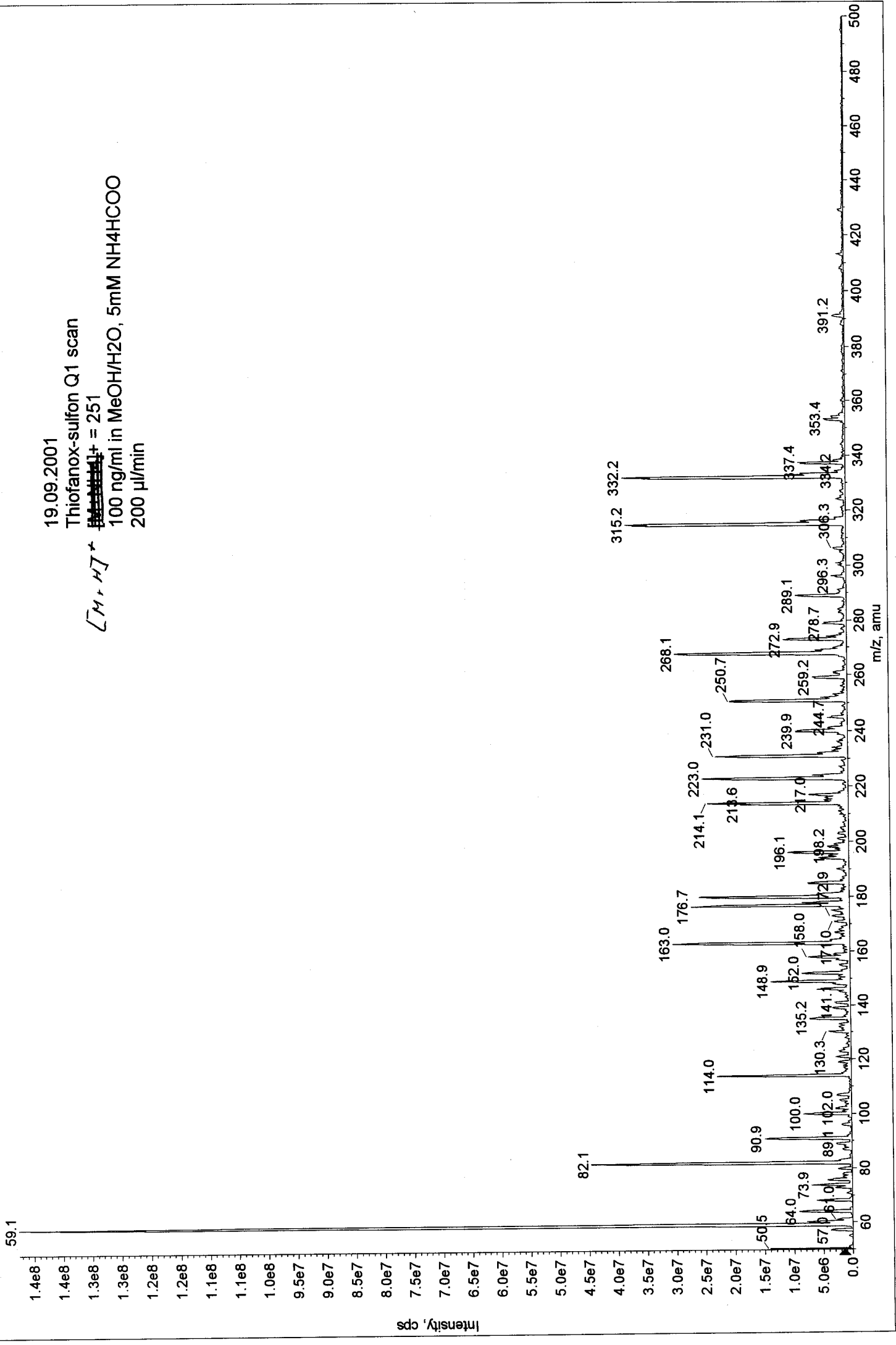
19.09.2001
Thiofanox-sulfon-amm76 Q3 scan 268 -> 76
[M+NH4]⁺ = 268
100 ng/ml in MeOH/H₂O, 5mM NH₄HCOO
200 µl/min



19.09.2001
 Thiofanox-sulfon-amm Q3 scan 268 -> 57
 [M+NH4]⁺ = 268
 100 ng/ml in MeOH/h₂O, 5mM NH₄HCOO
 200 µl/min



19.09.2001
Thiofanox-sulfon Q1 scan
~~100 ng/ml~~ $[M, H]^+$ = 251
100 ng/ml in MeOH/H₂O, 5mM NH₄HCOO
200 µl/min



19.09.2001
Thiofanox-sulfon Q3 scan 251 -> 57
[M+H]⁺ = 251
100 ng/ml in MeOH/H₂O, 5mM NH₄HCOO
200 µl/min

