

**BfR**

Risiken erkennen – Gesundheit schützen

MS/MS Parameters of Pesticides

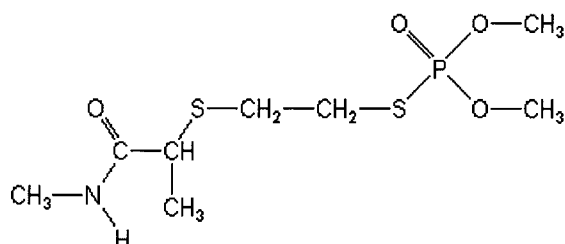
Analyte: Vamidothion

CAS No.: 2275-23-2

Formula: C₈H₁₈NO₄PS₂

Molecular mass (lowest isotopes): 287,04 amu

Structure:



Ionisation: ESI +

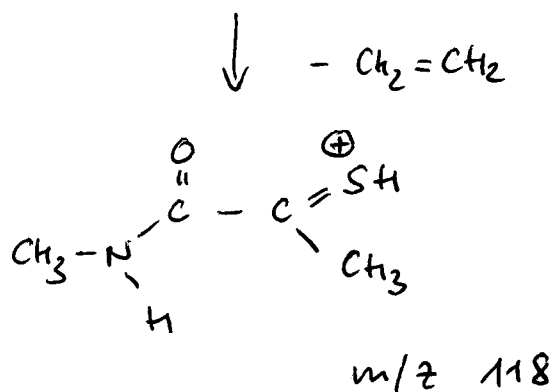
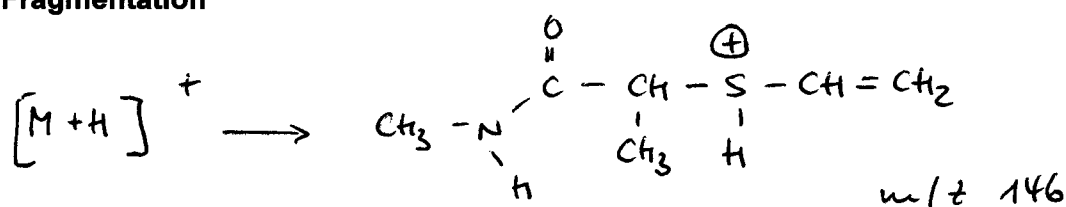
Quasimolecular ion: 288,0 amu = [M+H]⁺

Analyte sensitive parameter set (API 2000)

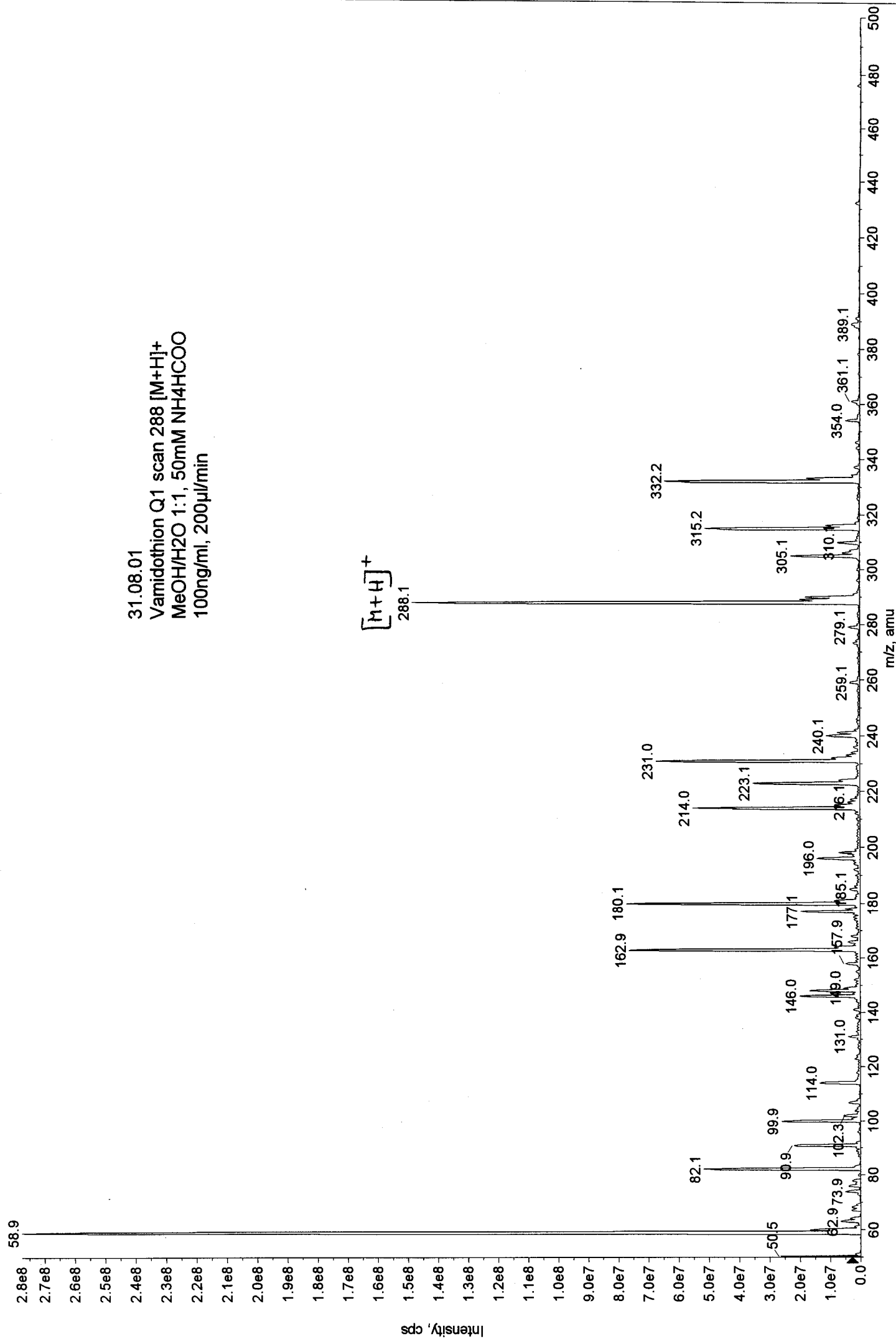
Transition	288,0 → 145,9	288,0 → 117,9
Declustering potential (DP) ^{*)}	16 V	16 V
Focusing potential (FP)	360 V	360 V
Entrance potential (EP)	8,0 V	9,5 V
Collision cell entrance potential (CEP)	18 V	20 V
Collision energy (CE)	17 V	31 V
Collision cell exit potential (CXP)	8 V	6 V

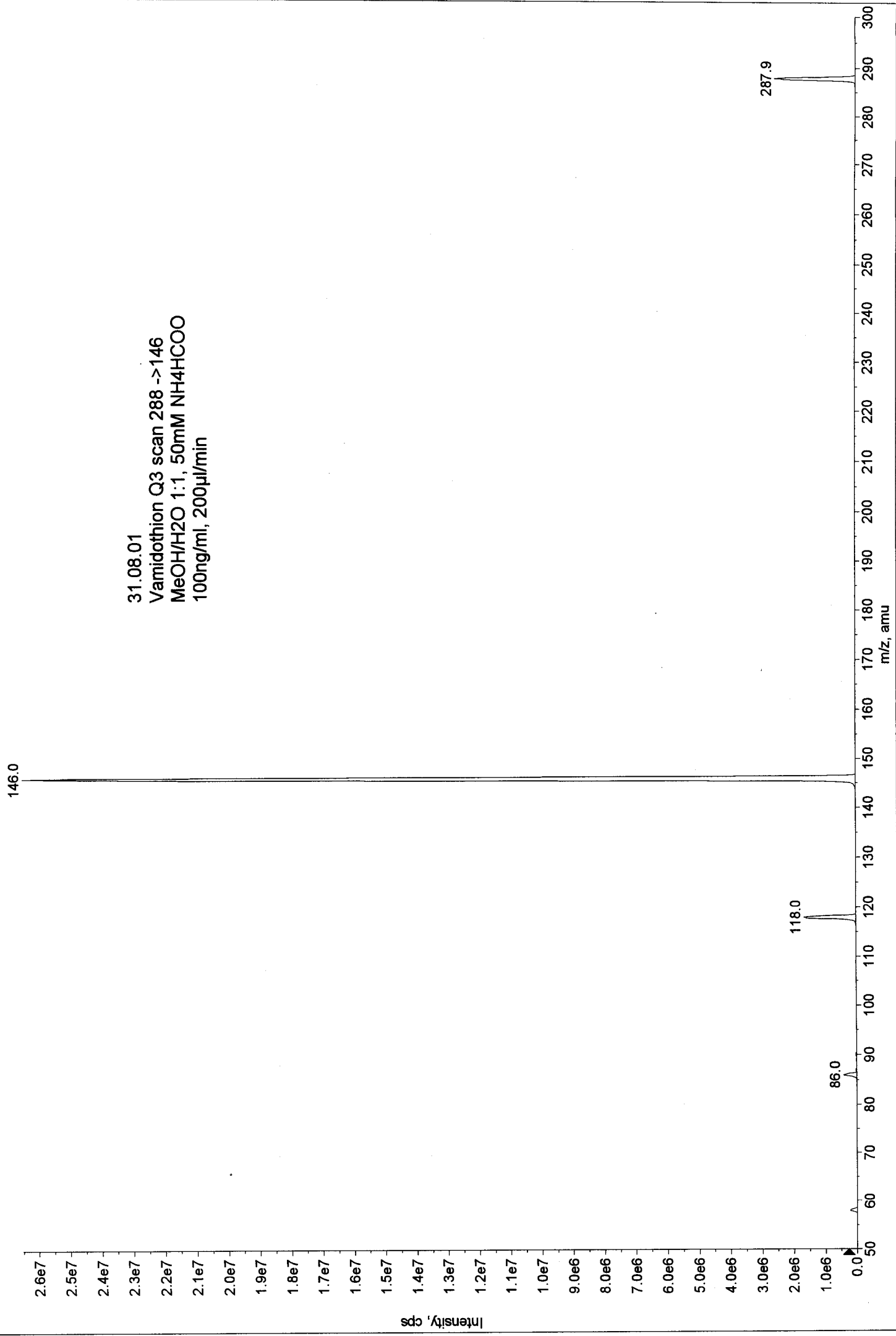
^{*)} For API 3000 and 4000 enhance DP by 20V

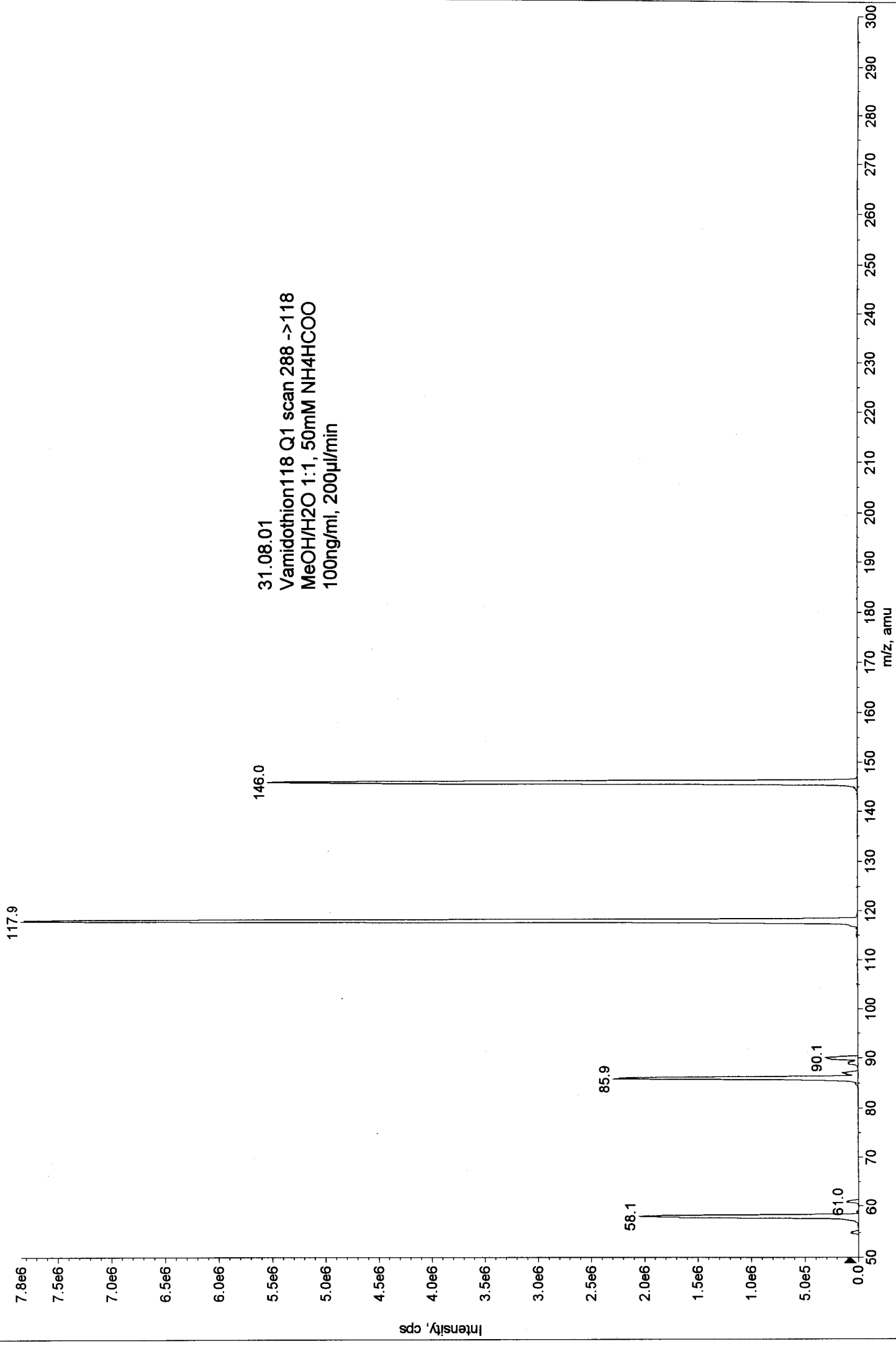
Fragmentation



31.08.01
Vamidothion Q1 scan 288 [M+H]⁺
MeOH/H₂O 1:1, 50mM NH₄HCOO
100ng/ml, 200µl/min







31.08.01
Vamidothion118 Q1 scan 288 ->118
MeOH/H2O 1:1, 50mM NH4HCOO
100ng/ml, 200µl/min