

MS/MS Parameters of Pesticides

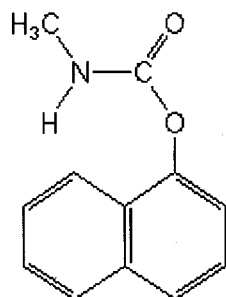
Analyte: Carbaryl

CAS No.: 63-25-2

Formula: C₁₂H₁₁NO₂

Molecular mass (lowest isotopes): 201,10 amu

Structure:



Ionisation: ESI +

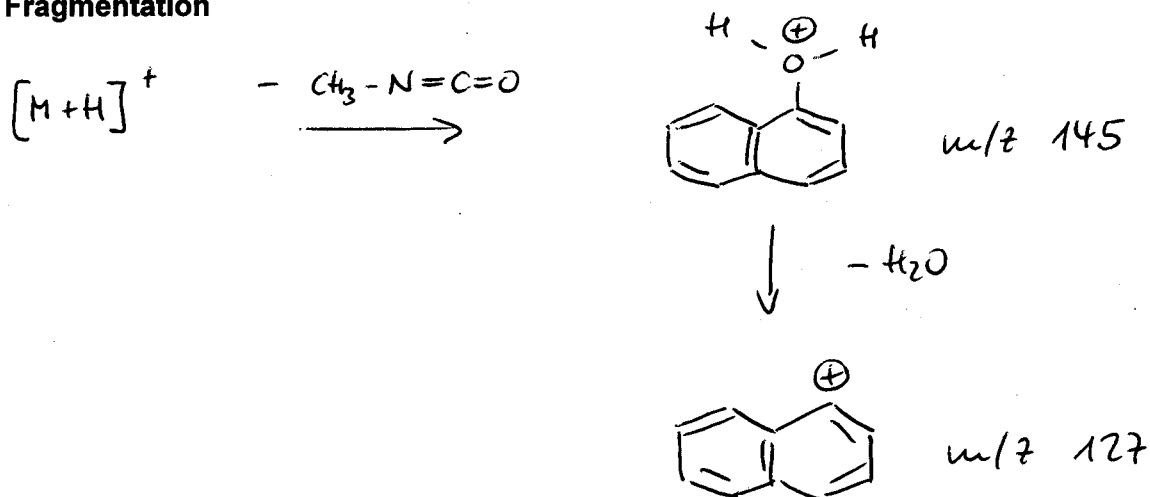
Quasimolecular ion: 202,1 amu = [M+H]⁺

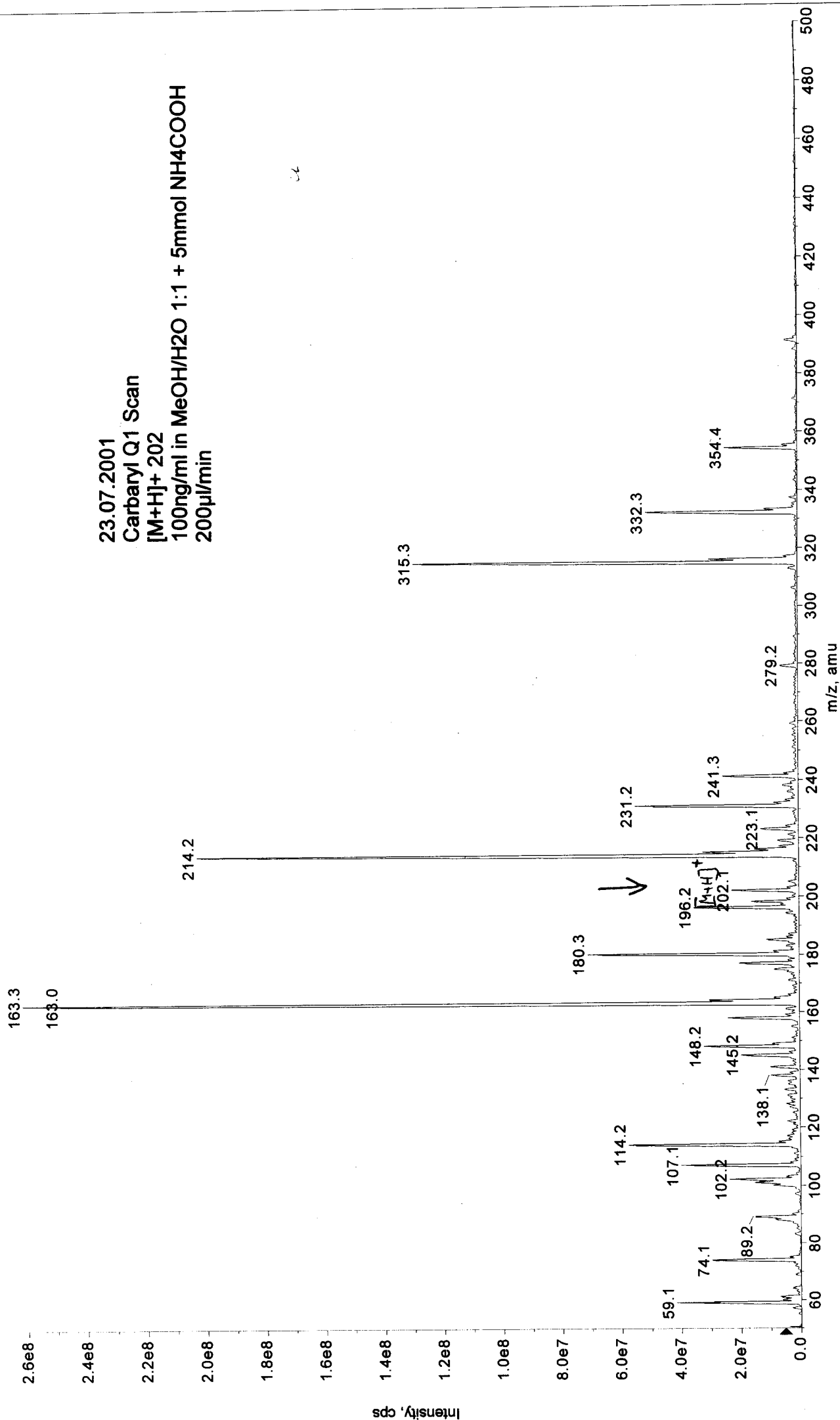
Analyte sensitive parameter set (API 2000)

Transition	202,1 → 144,9	202,1 → 127,0
Declustering potential (DP) ^{*)}	11 V	11 V
Focusing potential (FP)	360 V	360 V
Entrance potential (EP)	10,0 V	10,0 V
Collision cell entrance potential (CEP)	10 V	10 V
Collision energy (CE)	15 V	35 V
Collision cell exit potential (CXP)	8 V	6 V

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

Fragmentation





144.9

3.3e6

3.2e6

3.0e6

2.8e6

2.6e6

2.4e6

2.2e6

2.0e6

1.8e6

1.6e6

1.4e6

1.2e6

1.0e6

8.0e5

6.0e5

4.0e5

2.0e5

0.0

Intensity, cps

23.07.2001
Carbaryl Q3 Scan 202→145
[M+H]⁺ 202
100ng/ml in MeOH/H₂O 1:1 + 5mmol NH₄COOH
200μl/min

202.0

m/z, amu

23.07.2001
Carbaryl Q3 Scan 202→127
[M+H]⁺ 202
100ng/ml in MeOH/H₂O 1:1 + 5mmol NH₄COOH
200μl/min

