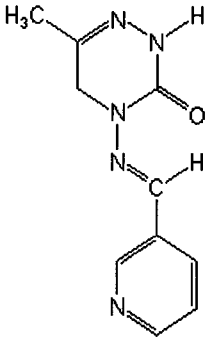
Risiken erkennen – Gesundheit schützen

MS/MS Parameters of Pesticides

Analyte: Pymetrozin

CAS No.: 123312-89-0
Formula: C10H11N5O
Molecular mass (lowest isotopes): 217,10 amu

Structure:



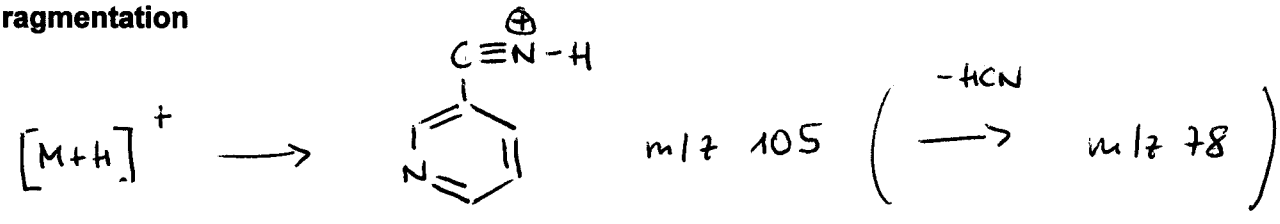
Ionisation: ESI + Quasimolecular ion: 218,1 amu = [M+H]+

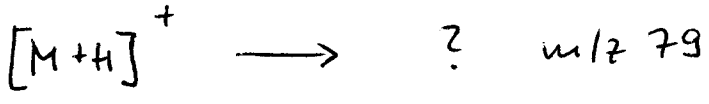
Analyte sensitive parameter set (API 2000)

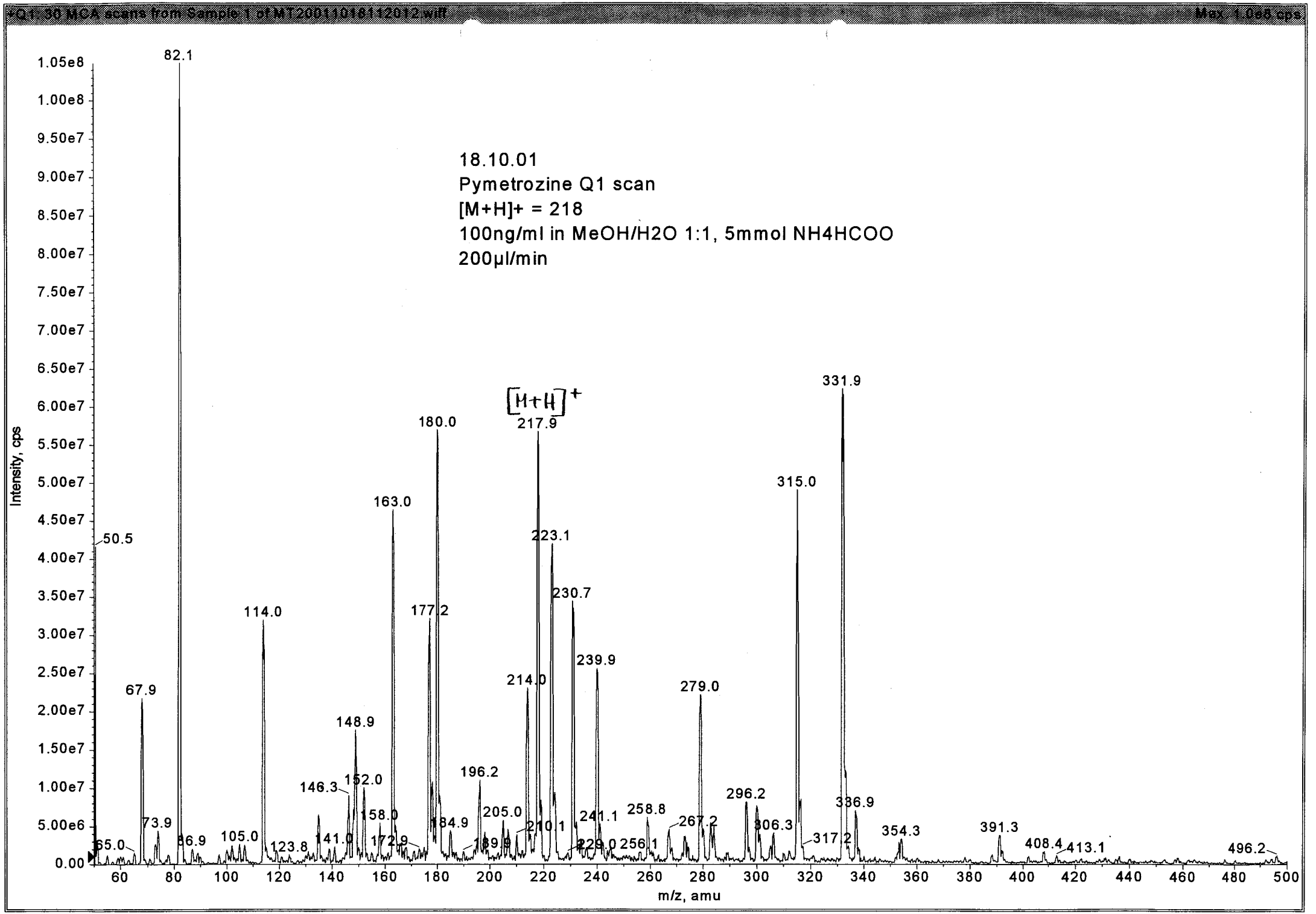
Transition	218,1 → 105,0	218,1 → 78,9
Declustering potential (DP)*)	54 V	54 V
Focusing potential (FP)	330 V	360 V
Entrance potential (EP)	9,5 V	10,5 V
Collision cell entrance potential (CEP)	16 V	14 V
Collision energy (CE)	27 V	47 V
Collision cell exit potential (CXP)	6 V	12 V

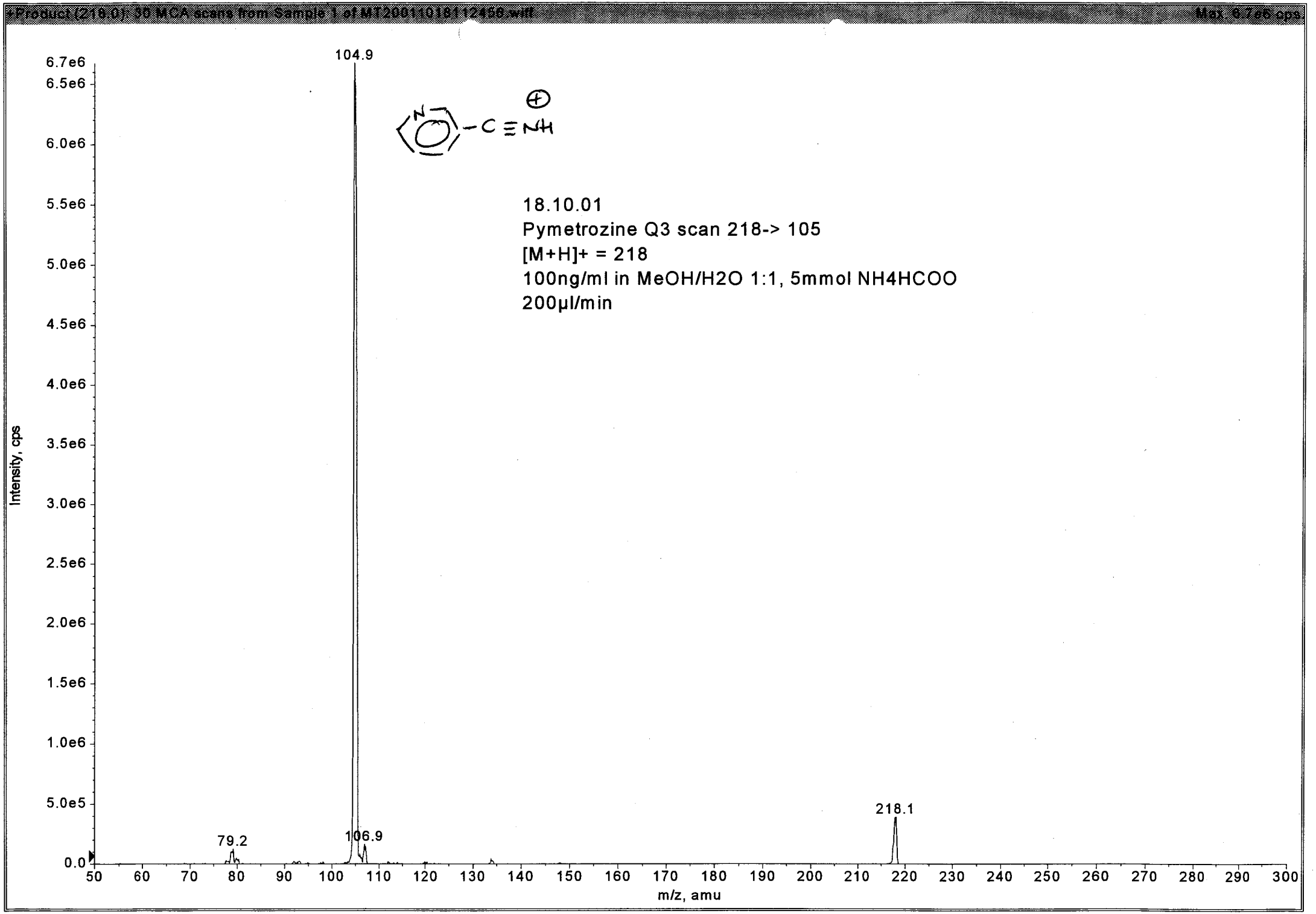
*) For API 3000 and 4000 enhance DP by 20V

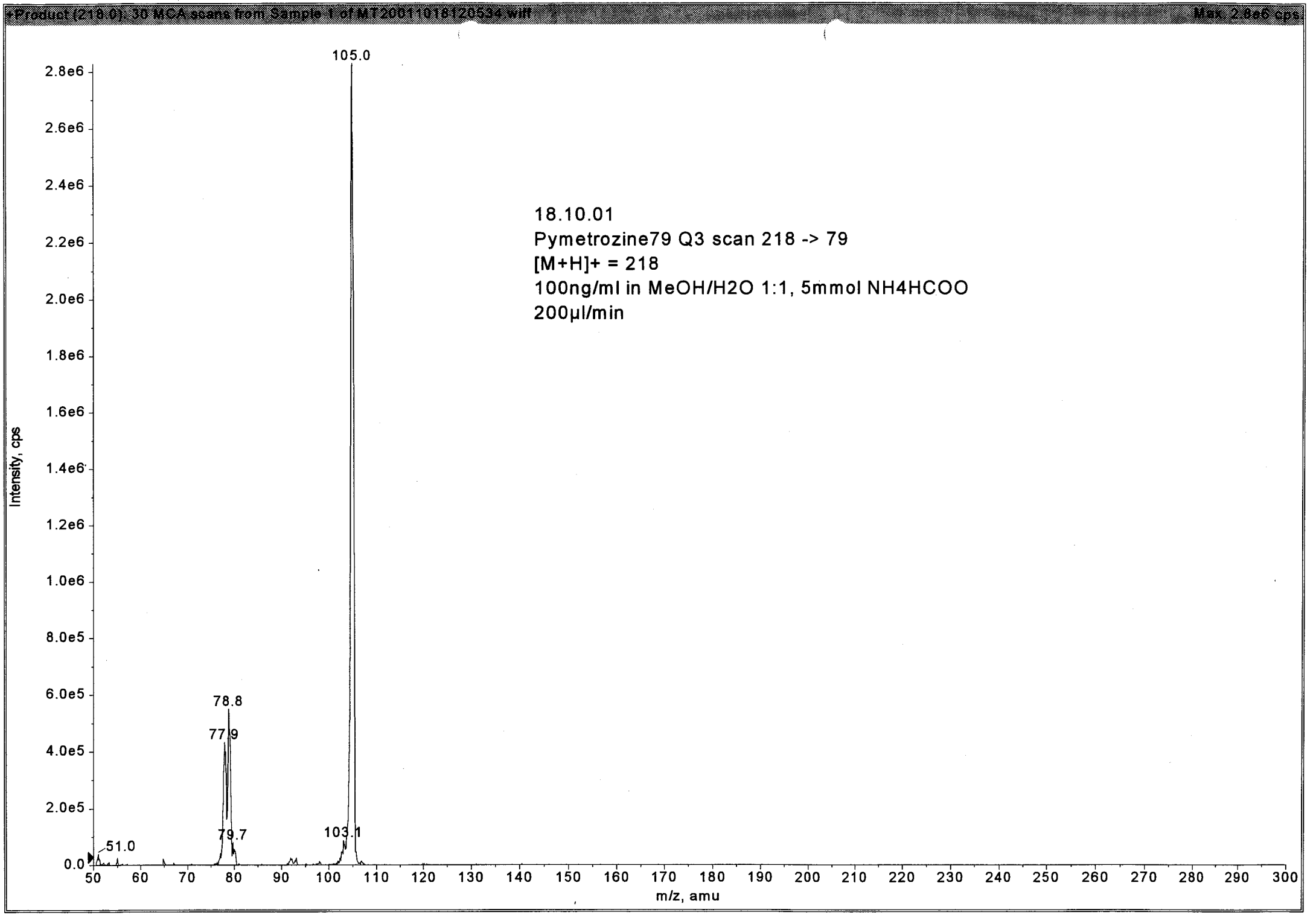
Fragmentation






+Q1: 30 MCA scans from Sample 1 of MT20011018112012.wiff
Max. 1.0e8 cps.
18.10.01
Pymetrozine Q1 scan
[M+H]+ = 218
100ng/ml in MeOH/H2O 1:1, 5mmol NH4HCOO
200µl/min
[M+H]+
Intensity, cps
m/z, amu
82.1
217.9
331.9
180.0
315.0
163.0
50.5
223.1
230.7
114.0
177.2
239.9
214.0
279.0
67.9
148.9
196.2
146.3
152.0
296.2
336.9
158.0
205.0
258.8
241.1
267.2
306.3
354.3
391.3
73.9
86.9
105.0
123.8
141.0
172.9
184.9
189.9
210.1
229.0
256.1
317.2
408.4
413.1
496.2
65.0


+Product (218.0): 50 MCA scans from Sample 1 of MT20011018112458.wiff
Max. 6.7e6 cps.
104.9
79.2
106.9
218.1
18.10.01
Pymetrozine Q3 scan 218-> 105
[M+H]+ = 218
100ng/ml in MeOH/H2O 1:1, 5mmol NH4HCOO
200µl/min
Intensity, cps
m/z, amu


Product (218.0): 30 MCA scans from Sample 1 of MT20011018120534.wiff
Max. 2.8e6 cps.
105.0
78.8
77.9
79.7
103.1
51.0
18.10.01
Pymetrozine79 Q3 scan 218 -> 79
[M+H]+ = 218
100ng/ml in MeOH/H2O 1:1, 5mmol NH4HCOO
200µl/min
Intensity, cps
m/z, amu