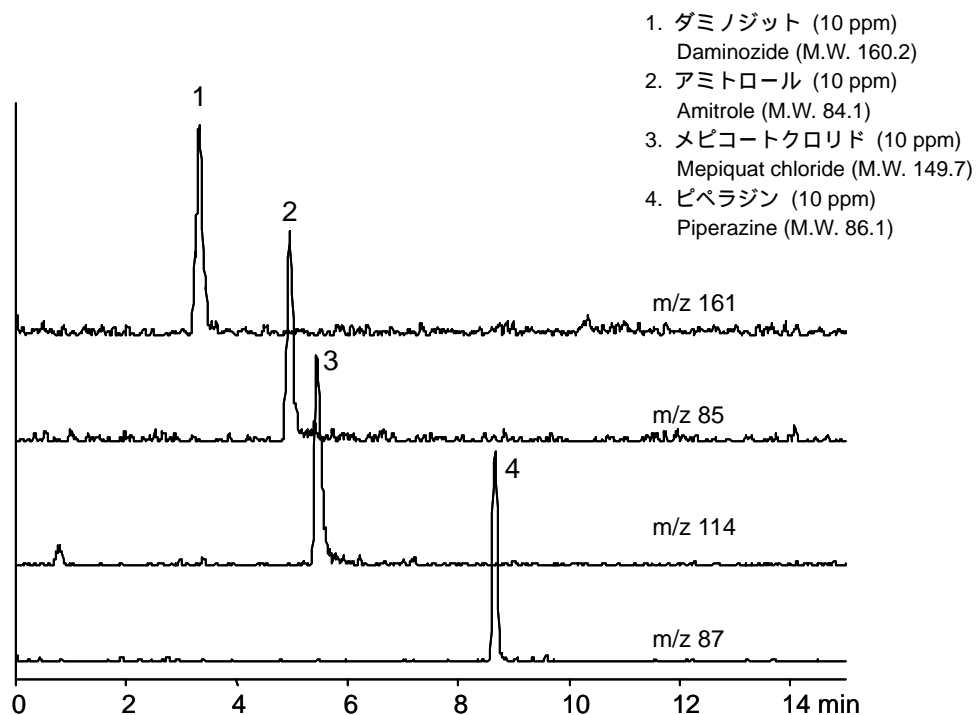


残留農薬(イオンペア法)

Pesticide residue (ion-pair method)

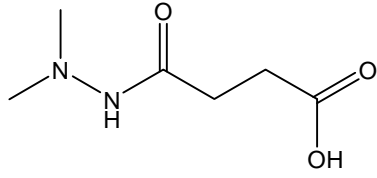
農薬の中から両性化合物および強塩基性化合物について、MSにて使用可能な揮発性イオンペア試薬(IPCC-MS-7)を用いて分析を行いました。イオンペア法におけるグラジエント分析では保持のばらつきが起こりやすいので、必ず同一サイクルでの連続分析を行い、保持の安定性を確認します。

Amphoteric and strongly basic pesticides were run in LC-MS, based on ion-pair chromatography with IPCC-MS-7, an ion-pairing reagent designed for LC-MS. It is recommended to perform gradient runs at equal intervals and run a sample in the second time and later, to avoid retention time fluctuation.

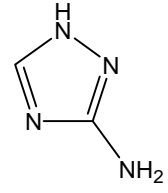


【HPLC Conditions】

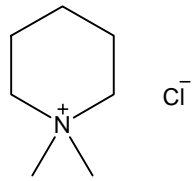
Column : CAPCELL PAK C₁₈ MG S3 ; 2.0 mm i.d. x 50 mm
 Mobile phase : (A) 0.1 % IPCC-MS-7 in 1% CH₃OH*
 (B) 0.1 % IPCC-MS-7 in CH₃OH
 B% 30% (0.0 min) -> 85% (10.0 min) -> 85% (12.0 min) -> 30% (12.1 min) Gradient
 Flow rate : 200 μL/min
 Temperature : 40 °C
 Detection : MS ESI Positive
 Inj. vol. : 2 μL
 Sample dissolved in : Each standard was dissolved in methanol at 1000 ppm. 10 μL of all solutions were added together, and diluted to 1 mL with 40% acetonitrile.
 *Mobile phase (A) = 0.1 g of IPCC-MS-7 was dissolved in methanol, and diluted to 100 mL with water.
 ※ 1 μg/mL = 1 ppm



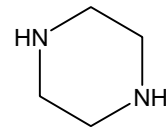
1. Daminozide



2. Amitrole



3. Mepiquat chloride



4. Piperazine