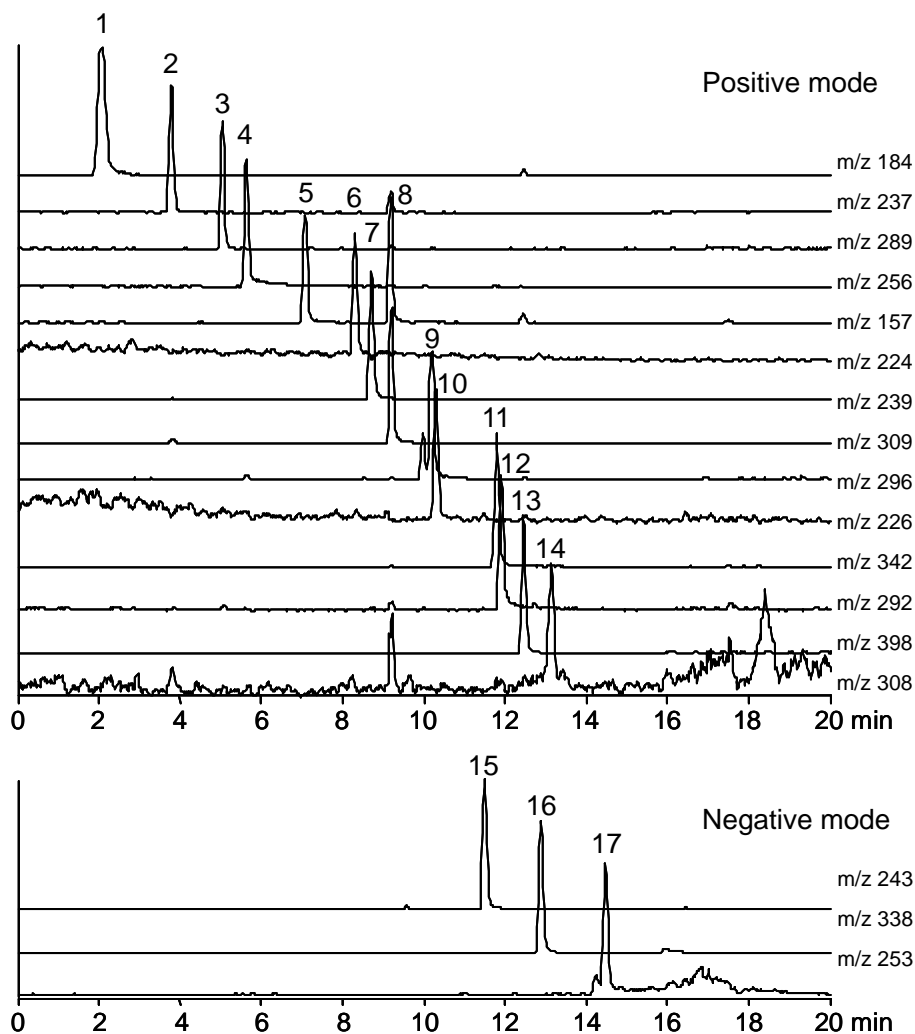


残留農薬

Pesticide residue

LC-MS を用い、残留農薬 17 種の一斉分析を行いました。厚生労働省告示法では GC の使用が推奨されている物質や、個別分析法が示されていない物質を含んでいます。

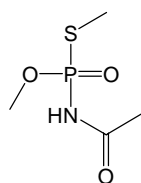
Seventeen pesticides were run in LC-MS. Among these are those to be analyzed in GC-MS according to the method announced by the Ministry of Health, Welfare, and Labor, and those not mentioned at all in the announced methods.



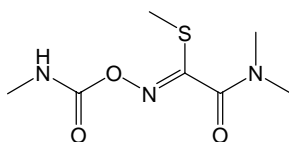
- | | | |
|---|---|---|
| 1. アセフェート (10 ppm)
Acephate (M.W. 183.2) | 7. ピリミカルブ (10 ppm)
Pirimicarb (M.W. 238.3) | 13. ベンスリド (10 ppm)
Bensulide (M.W. 397.5) |
| 2. オキサミル (10 ppm)
Oxamyl (M.W. 219.3) | 8. トリアジメノール (10 ppm)
Triadimenol (M.W. 295.8) | 14. ホキシム (10 ppm)
Phoxim (M.W. 298.3) |
| 3. バミドチオン (10 ppm)
Vamidothion (M.W. 287.3) | 9. メチオカルブ (10 ppm)
Methiocarb (M.W. 225.3) | 15. イプロジオン (10 ppm)
Iprodione (M.W. 330.2) |
| 4. イミダクロプリド (10 ppm)
Imidacloprid (M.W. 255.7) | 10. フェンスルホチオン (10 ppm)
Fensulfthion (M.W. 308.4) | 16. トリクラミド (10 ppm)
Trichlamide (M.W. 340.6) |
| 5. アルジカルブ (10 ppm)
Aldicarb (M.W. 190.3) | 11. プロピコナゾール (10 ppm)
Propiconazole (M.W. 342.2) | 17. クロルピリホス (10 ppm)
Chlorpyrifos (M.W. 350.6) |
| 6. ベンダイオカルブ (10 ppm)
Bendiocarb (M.W. 223.2) | 12. ナプロアニリド (10 ppm)
Naproanilide (M.W. 291.3) | |

【HPLC Conditions】

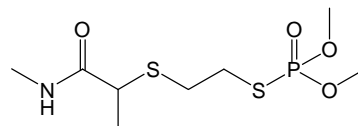
Column	: CAPCELL PAK C ₁₈ MGII S3 ; 2.0 mm i.d. x 100 mm
Mobile phase	: (A) 5 mmol/L CH ₃ COONH ₄ , (B) CH ₃ CN B% 10% (0.0 min) -> 100% (15.0 min) -> 100% (20.0 min) -> 10% (20.1 min) Gradient
Flow rate	: 200 μL/min
Temperature	: 40 °C
Detection	: MS ESI
Inj. vol.	: 2 μL
Sample dissolved in	: Each standard was dissolved in methanol at 1000 ppm. 10 μL of all solutions were added together, and diluted to 1 mL with 40% acetonitrile. ※ 1 μg/mL = 1 ppm



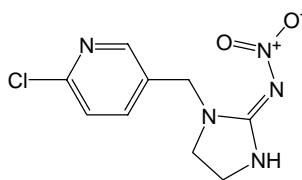
1. Acephate



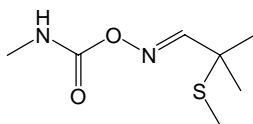
2. Oxamyl



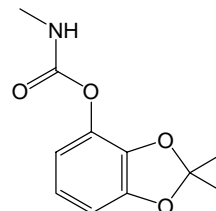
3. Vamidothion



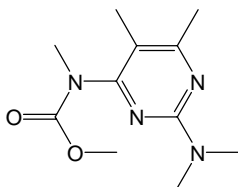
4. Imidacloprid



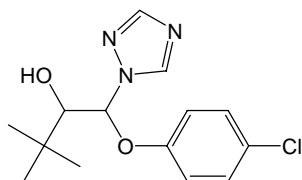
5. Aldicarb



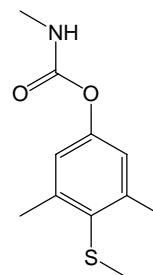
6. Bendiocarb



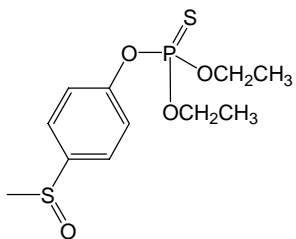
7. Pirimicarb



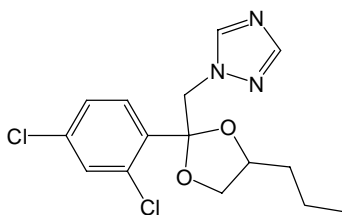
8. Triadimenol



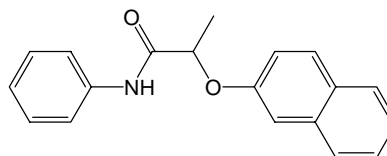
9. Methiocarb



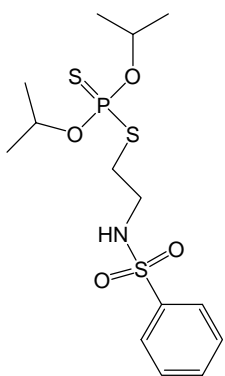
10. Fensulfothion



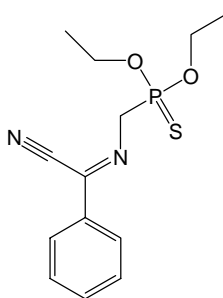
11. Propiconazole



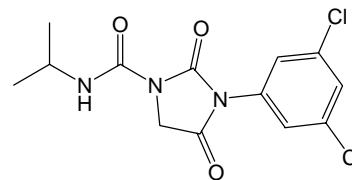
12. Naproanilide



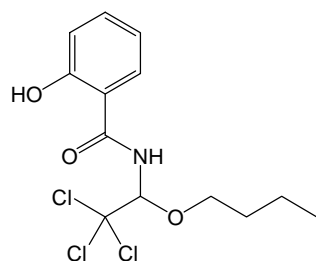
13. Bensulide



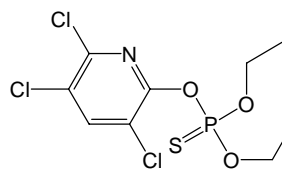
14. Phoxim



15. Iprodione



16. Trichlamide



17. Chlorpyrifos