Pesticides

Fast analysis of pesticides using 0.15 mm id capillary columns

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

Fast analysis of pesticides in an apple matrix is achieved by gas chromatography with an Agilent CP-Sil 13 CB GC column and splitless injection.

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Conditions

Technique	:	GC-capillary
Column	:	Agilent CP-Sil 13 CB, 0.15 mm x 25 m fused silica (df = 0.40 µm) (Part no. CP7813)
Temperature	:	80 °C (1 min), 65 °C to 290 °C
Carrier Gas	:	He, 363 kPa, 3.6 bar
Injector	:	Splitless, 5 µL in 2mm ID liner
Detector	:	ECD, T= 300 °C
Sample Size	:	2 ng/uL

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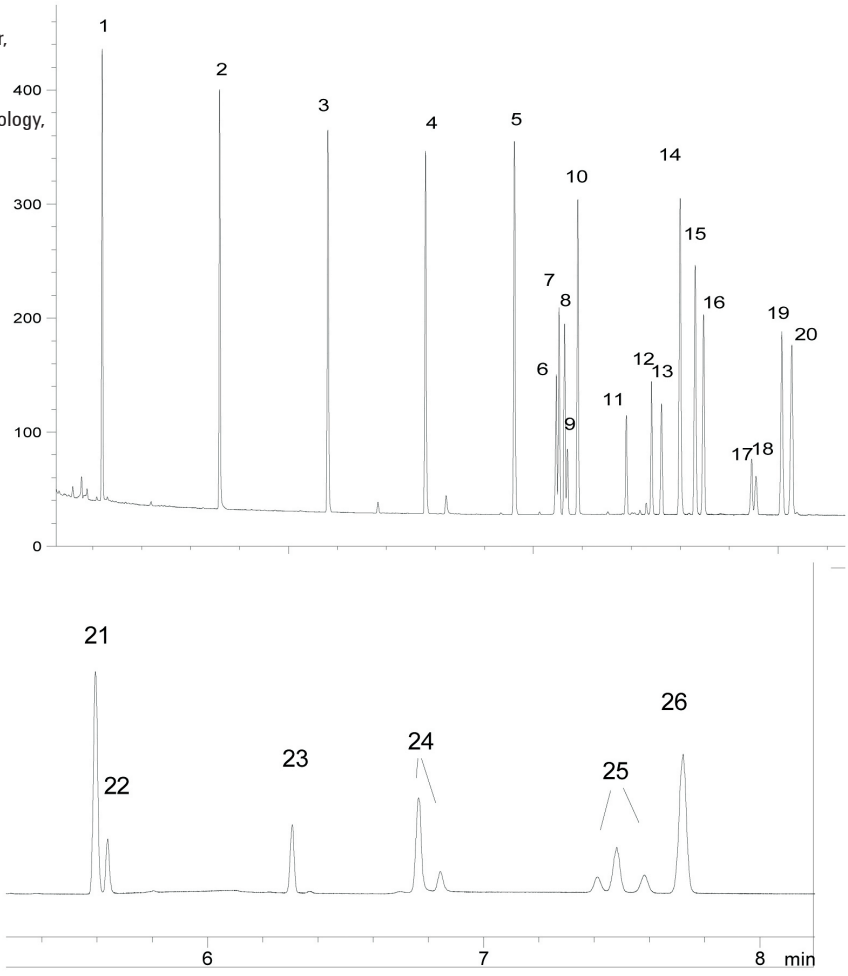

Peak identification

1. n-C_{10}
2. n-C_{12}
3. n-C_{14}
4. n-C_{16}
5. n-C_{18}
6. simazin
7. diazinon
8. terbuthylazine
9. dimethoate
10. pyrimethanil
11. chlorpyrifos-methyl
12. fenitrothion
13. chlorpyrifos
14. n-C_{22}
15. cyprodinyl
16. penconazole
17. captan
18. methidathion
19. kresoxim-methyl
20. myclobutanil
21. n-C_{26}
22. tebuconazole
23. phosalone
24. bitertanol
25. cypermethrin
26. etofenprox

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