

## **Pesticides**

Fast analysis of pesticides using splitless injection on 0.15 mm id columns

### **Application Note**

Environmental

#### **Authors**

Agilent Technologies, Inc.

#### **Introduction**

Fast GC analysis of 25 pesticides using splitless injection on a 0.15 mm id Agilent CP-Sil 13 CB column.



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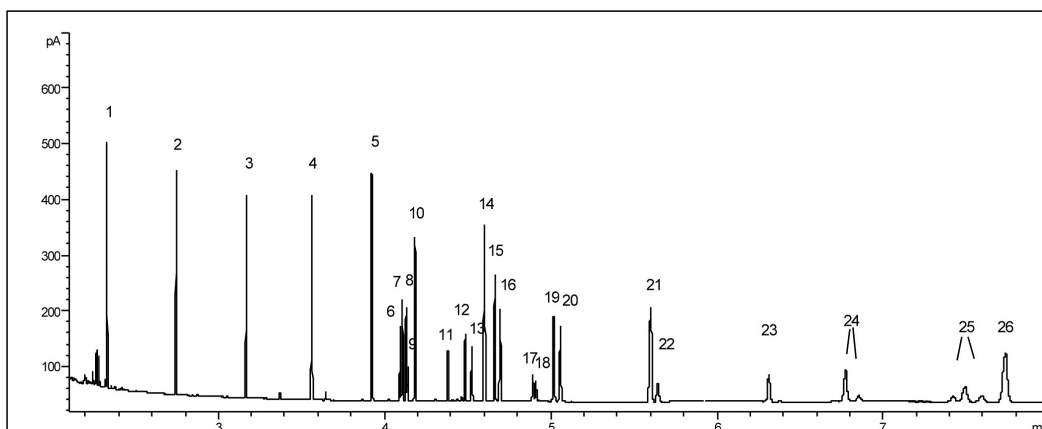
## Conditions

Technique : GC  
Column : Agilent CP-Sil 13 CB, 0.15 mm x 25 m fused silica  
(df = 0.4  $\mu$ m) (Part No. CP7813)  
retention gap 0.32 mm x 1 m, methyl deactivated  
Temperature : 80 °C, 1 min  $\rightarrow$  290 °C, 65 °C/min  
Carrier Gas : H<sub>2</sub>, 2.3  $\rightarrow$  4.4 mL/min  
Injector : Splitless  
Detector : FID, T= 320 °C  
Sample Size : ca. 1  $\mu$ L  
Concentration : 10 ng on the column  
Solvent : hexane

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## Peak identification

1. C<sub>10</sub>
2. C<sub>12</sub>
3. C<sub>14</sub>
4. C<sub>16</sub>
5. C<sub>18</sub>
6. simazin
7. diazinon
8. terbutylazine
9. dimethoate
10. pyrimethanil
11. chlorpyrifos-methyl
12. fenitrothion
13. chlorpyrifos
14. C<sub>22</sub>
15. cyprodinyl
16. penconazole
17. captan
18. methidathion
19. kresoxim-methyl
20. myclobutanil
21. C<sub>26</sub>
22. tebuconazole
23. phosalone
24. bitertanol
25. cypermethrin



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