



# PAHs

## Application Note

Environmental

### Authors

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### Introduction

GC analysis of 16 polycyclic aromatic hydrocarbons according to EPA 610 is achieved in less than 23 minutes using Agilent VF-5ms EZ-Guard columns.



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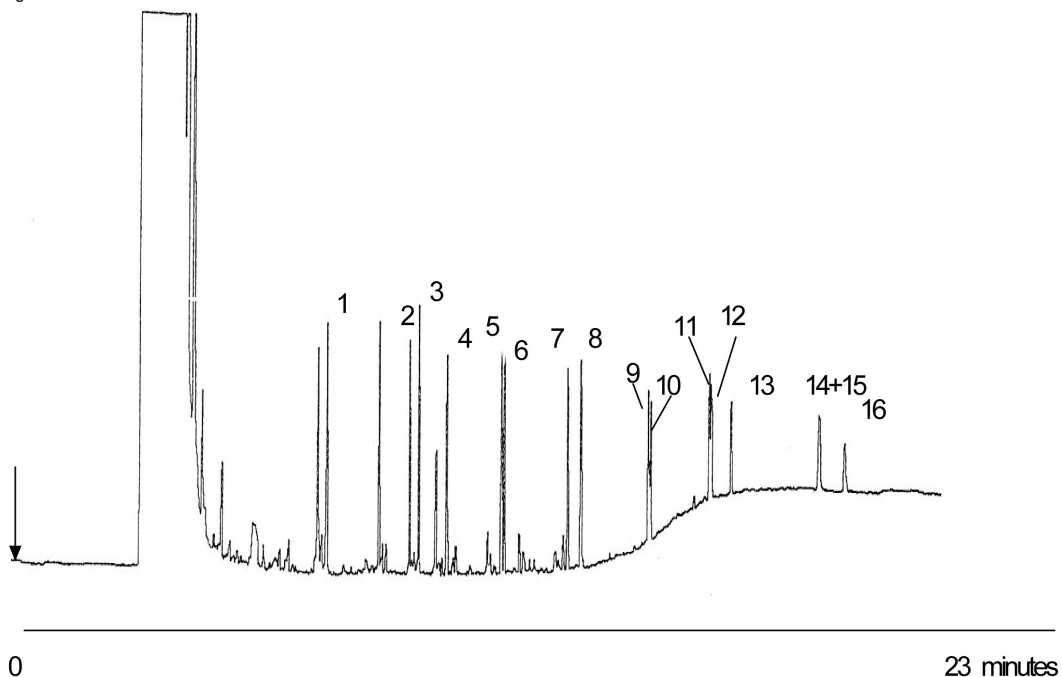
## Conditions

Technique : GC  
Column : Agilent FactorFour EZ-Guard VF-5ms,  
0.25 mm x 30 m (df = 0.25 µm, + 10 m EZ-Guard)  
(Part No. CP9013)  
Temperature : 50 °C, 0.8 min + 20 °C/min → 320 °C  
Carrier Gas : H<sub>2</sub>  
Pressure program : 60 kPa  
Injector : Splitless  
Detector : FID  
T = 300 °C  
Sample Size : 1 µL  
Solvent : methanol ca. 1 ng/µL

Courtesy : Peter Heijnsdijk, Agilent application laboratory,  
Middelburg, The Netherlands

## Peak identification

1. naphthalene
2. acenaphthylene
3. acenaphthene
4. fluorene
5. phenanthrene
6. anthracene
7. fluoranthene
8. pyrene
9. chrysene
10. benzo(a)anthracene
11. benzo(k)fluoranthene
12. benzo(b)fluoranthene
13. benzo(a)pyrene
14. indeno(1,2,3-cd)pyrene
15. dibenzo(a,h)anthracene
16. benzo(g,h,i)perylene



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