

Organochlorine pesticides

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

GC analysis of 16 organochlorine pesticides according to EPA 625 is achieved in less than 23 minutes using Agilent VF-5ms EZ-Guard columns.



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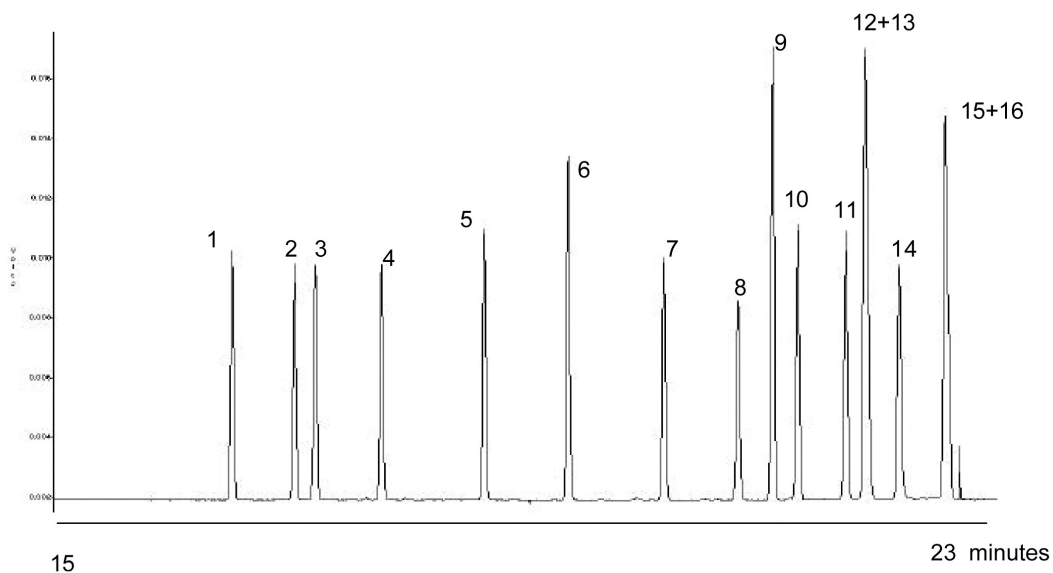
Conditions

Technique : GC
Column : Agilent FactorFour EZ-Guard VF-5ms, 0.25mm x 30 m
(df = 0.25 µm, + 10 m EZ-Guard) (Part No. CP9013)
Temperature : 45 °C + 10 °C/min → 325 °C
Carrier Gas : H₂
Pressure program : 60 kPa
Injector : Split/Splitless, in split mode, 1:100
Detector : ECD
Sample Size : 1 µL
Solvent : hexane:toluene (1:1), 2000 µg/mL

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

Peak identification

1. α-BHC
2. β-BHC
3. δ-BHC
4. γ-BHC (lindane)
5. heptachlor
6. aldrin
7. heptachlorepoxyde
8. endosulfan
9. 4,4'-DDE
10. dieldrin
11. endrin
12. 4,4'-DDD
13. endosulfan II
14. endrin aldehyde
15. 4,4'-DDT
16. endosulfan sulfate



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