



High resolution analysis of lemon oil

Application Note

Food Testing & Agriculture

Authors

Agilent Technologies, Inc.

Introduction

The Agilent FactorFour VF-5ms bonded phase is one of a new generation phases with very low bleed specifications. The VF-5ms low bleed phase is highly efficient and reproducible which is required for the characterization of oil elution patterns (fingerprint).

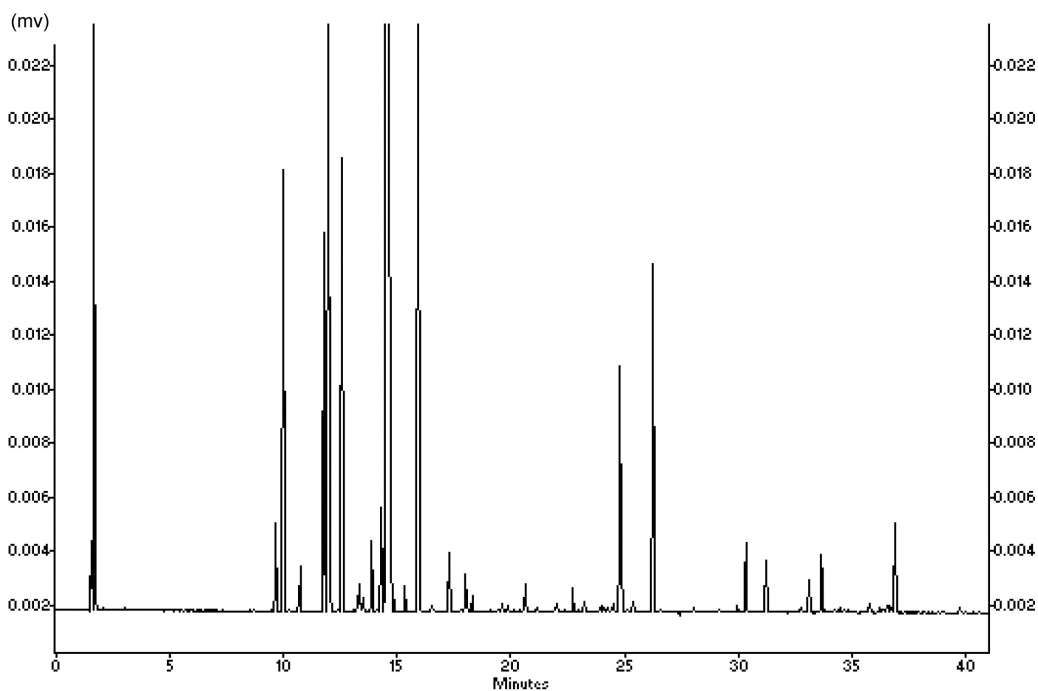


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Conditions

Technique : GC
Column : Agilent VF-5ms, 0.25 mm x 30 m fused silica
(df = 0.25 μ m) (Part no. CP8944)
Temperature : 100 °C, 10 °C/min \rightarrow 230 °C
Carrier Gas : Hydrogen, 50 kPa
Injector : Split, 1:200, T = 275 °C
Detector : FID
Sample Size : 1.0 μ L
Concentration Range : ca. 5-10 ng per component on the column

Courtesy : P. Heijnsdijk, Agilent R&D Laboratories, Middelburg,
The Netherlands



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