



Halogenated hydrocarbons Separation of CFCs

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

Alumina PLOT columns have a specific selectivity for CFCs. Not fully halogenated CFCs can show some adsorption and degradation at low concentration levels. In that case a porous polymer column is a better alternative (see application note 1446).



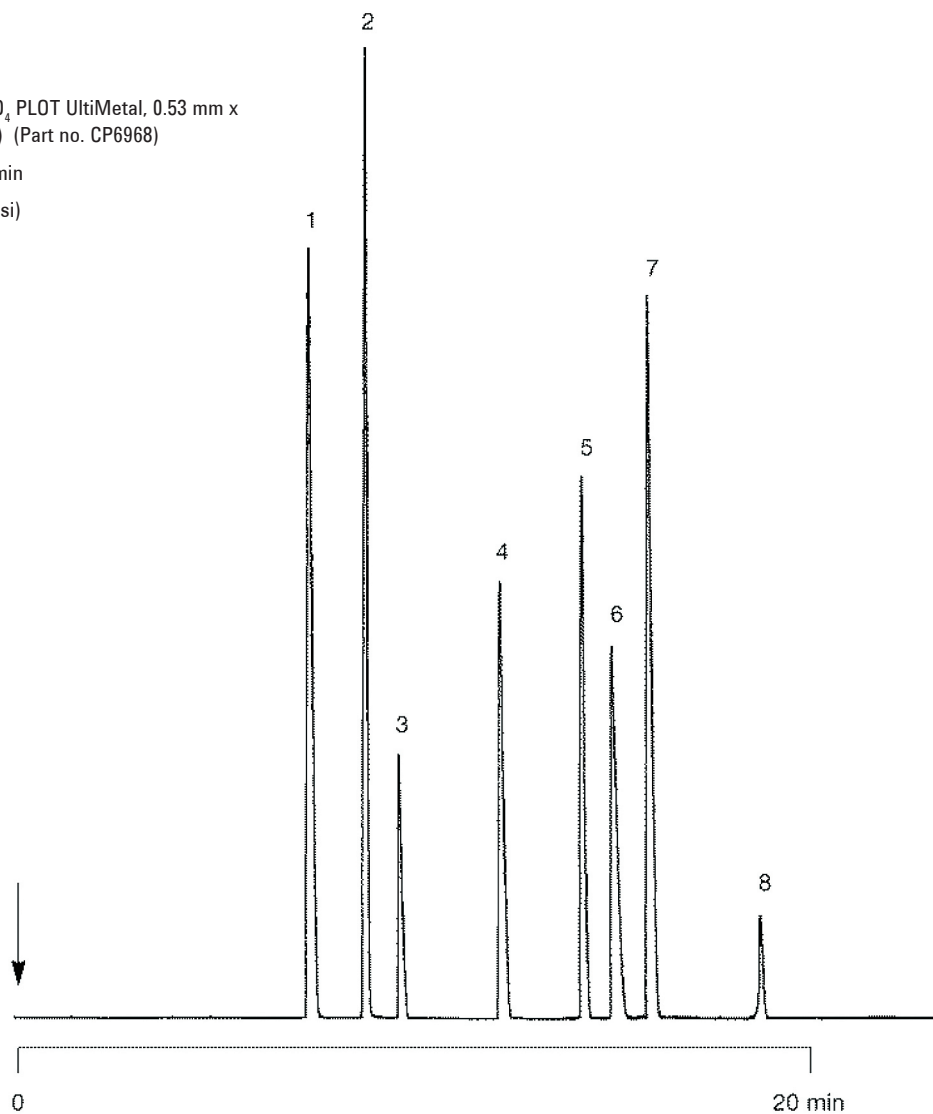
Agilent Technologies

Conditions

Technique : GC-wide-bore
Column : Agilent CP-Al₂O₃/Na₂SO₄ PLOT UltiMetal, 0.53 mm x 50 m PLOT (df = 10 µm) (Part no. CP6968)
Temperature : 50 °C → 200 °C, 8 °C/min
Carrier Gas : He, 100 kPa (1 bar, 14 psi)
Injector : Direct,
T = 200 °C
Detector : FID
T = 225 °C
Sample Size : 100 µL, 1% vol.

Peak identification

1. CFC 143a
2. CFC 1122
3. CFC 125
4. CFC 134a
5. CFC 124
6. CFC 134
7. CFC 133a
8. unknown



www.agilent.com/chem

This information is subject to change without notice.

© Agilent Technologies, Inc. 2011

Printed in the USA

31 October, 2011

First published prior to 11 May, 2010

A01447



Agilent Technologies