



Halogenated hydrocarbons, C₂

Monitoring vinylchloride (VCM) in air

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

The robust Agilent CP-SilicaPLOT column provides high retention for very volatile compounds. The major interference in a (VCM) production plant environmental air, 1,2-dichloroethane, is well separated. Detection limits are below 0.1 ppb.



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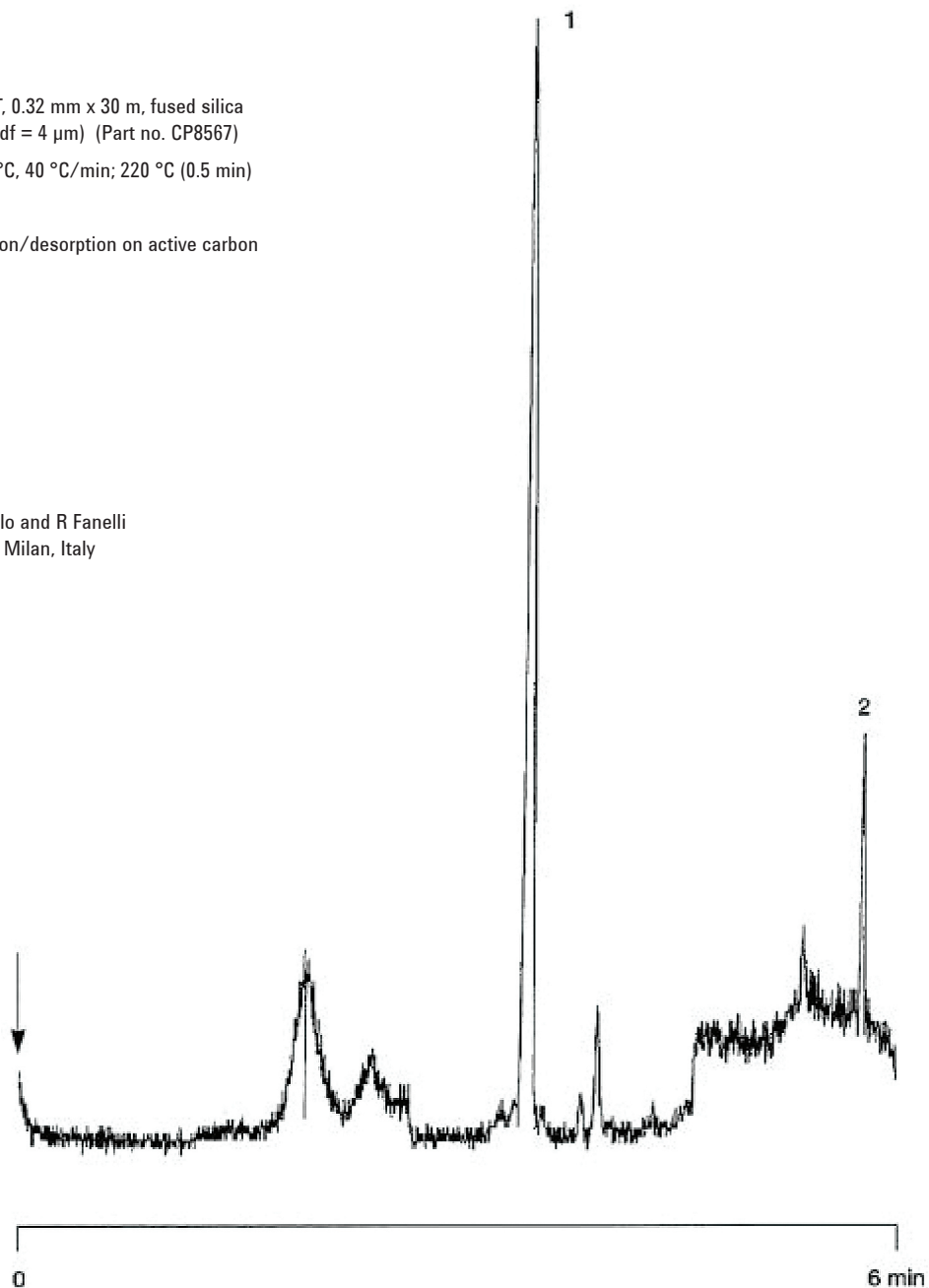
Conditions

Technique : GC-capillary
Column : Agilent CP-SilicaPLOT, 0.32 mm x 30 m, fused silica
PLOT CP-SilicaPLOT (df = 4 μ m) (Part no. CP8567)
Temperature : 50 °C (1 min) \rightarrow 220 °C, 40 °C/min; 220 °C (0.5 min)
Carrier Gas : He
Injector : PTV, thermal adsorption/desorption on active carbon
 T_{ads} = 35 °C
 T_{des} = 320 °C
Detector : MSD, ion 62.00
Sample Size : 300 mL
Concentration Range : 0.1 - 1 ppb in air
Sample Matrix : air

Courtesy : E. Davoli, M. Natangelo and R Fanelli
Mario Negri Institute, Milan, Italy

Peak identification

1. vinylchloride (VCM), 1 ppb level
2. 1,2-dichloroethane



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This information is subject to change without notice.

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