



## **Polar volatile compounds**

### Separation of carbon dioxide, ammonia and water

## Application Note

Materials Testing & Research

### **Authors**

Agilent Technologies, Inc.

### **Introduction**

GC/MS with an Agilent CP-Volamine column separates polar volatiles such as carbon dioxide, ammonia and water in under two minutes.



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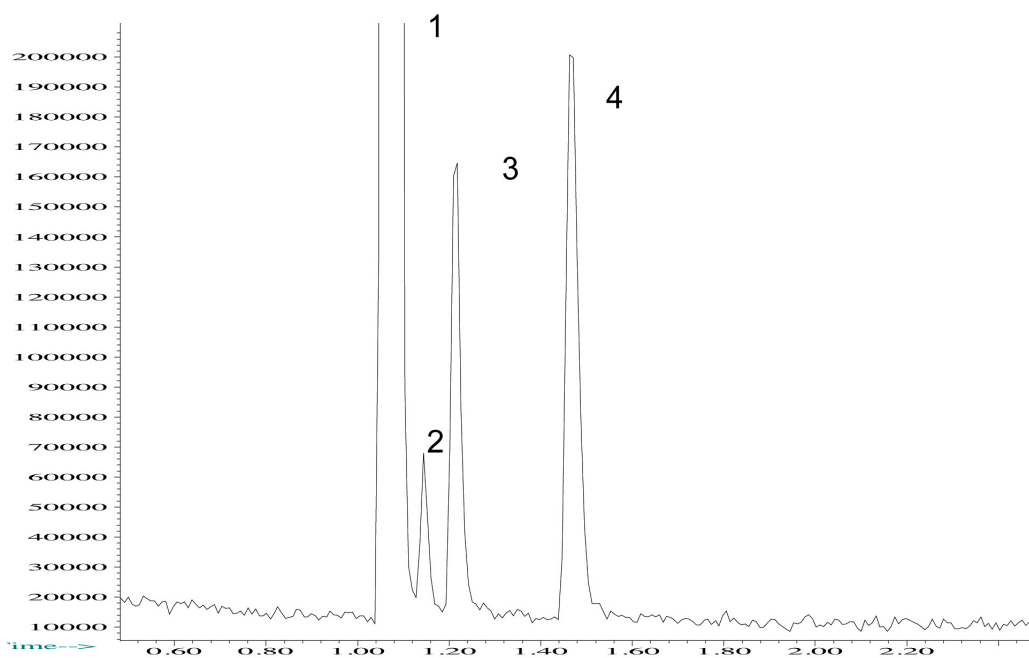
## Conditions

Technique : GC  
Column : Agilent CP-Volamine, 0.32 mm x 30 m fused silica  
(optimized filmthickness) (Part no. CP7447)  
Temperature : 40 °C  
Carrier Gas : Helium, 3 psi,  
Injector : Split,  
Detector : MS  
Sample Size : 0.5 µL  
Concentration Range : 1000 ppm in air;  
Solvent : air

Courtesy : Jim Luong and Paige Spencer,  
Dow Chemical Canada

## Peak identification

1. air
2. CO<sub>2</sub>
3. ammonia (NH<sub>3</sub>)
4. water



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This information is subject to change without notice.

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