

Analysis of Acetone, Methanol, and Ethanol in Air using the Agilent 490 Micro GC

Application Note

Micro Gas Chromatography, Environmental Analysis

Authors

Mohamed Bajja and Remko van Loon,
Agilent Technologies, Inc.
Middelburg
The Netherlands



Introduction

This application note shows the analysis of acetone, methanol, and ethanol in an air matrix using the Agilent 490 Micro GC equipped with a CP-Wax 52 CB column channel. The advantage of the Agilent 490 Micro GC, in combination with the CP-Wax 52 CB column channel, is the ease-of-use and the speed of analysis. The analysis is performed in less than 30 seconds.

The Agilent 490 Micro GC can optionally be equipped with a portable field case. This self-contained field case can be used to measure at a location where no carrier gas or power is available. Build-in gas cylinders and rechargeable batteries provide up to eight hours productive field time.

The Agilent 490 Micro GC delivers lab-quality separations in an ultra-compact, portable instrument. You get the results you need in seconds – for faster, better decision making, and confident process control.



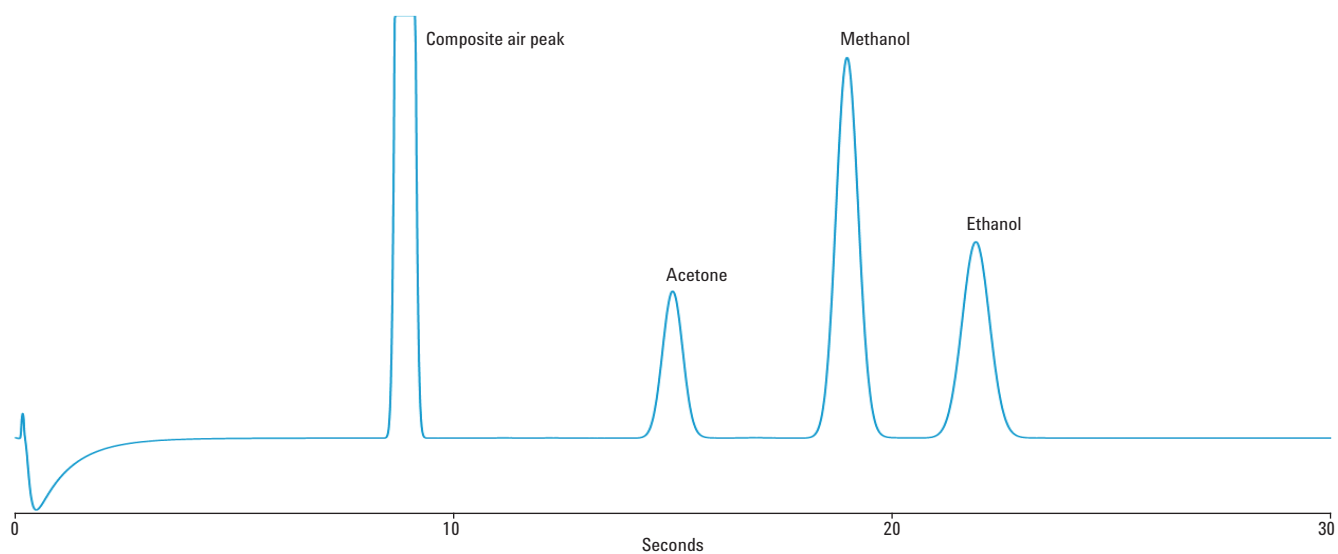
Agilent Technologies

Instrumentation

Instrument	Agilent 490 Micro GC (G3581A)
Column channel	CP-Wax 52 CB, 4 m
Column temperature	60 °C
Carrier gas	Helium, 150 kPa
Injector temperature	110 °C
Injection time	40 msec

Sample information

Air	Matrix
Acetone	0.07 %
Methanol	0.31 %
Ethanol	0.16 %



For More Information

These data represent typical results. For more information on our products and services, visit our Web site at www.agilent.com/chem.

www.agilent.com/chem

Agilent shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this material.

Information, descriptions, and specifications in this publication are subject to change without notice.

© Agilent Technologies, Inc., 2011
Printed in the USA
October 13, 2011
5990-9105EN