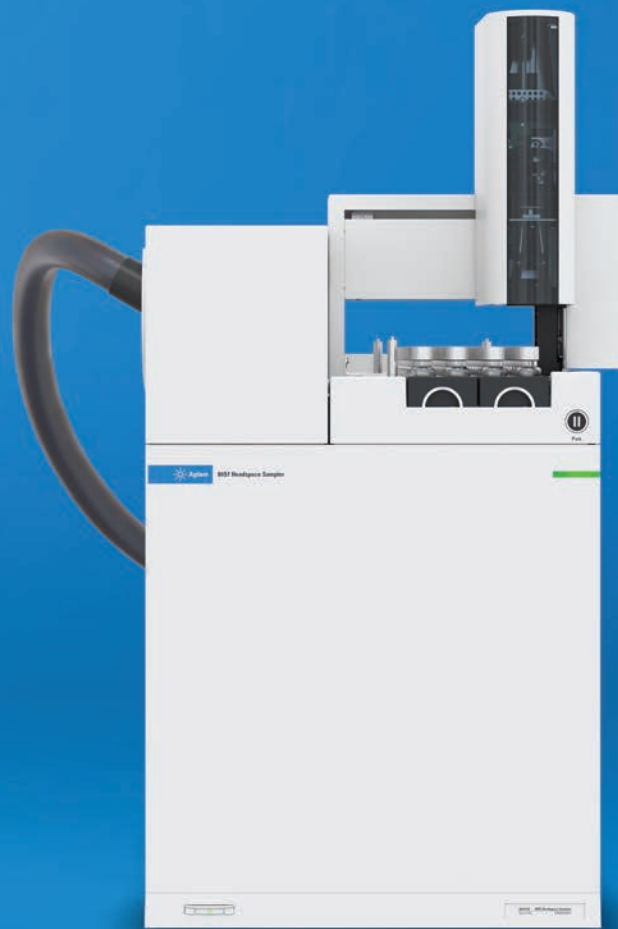
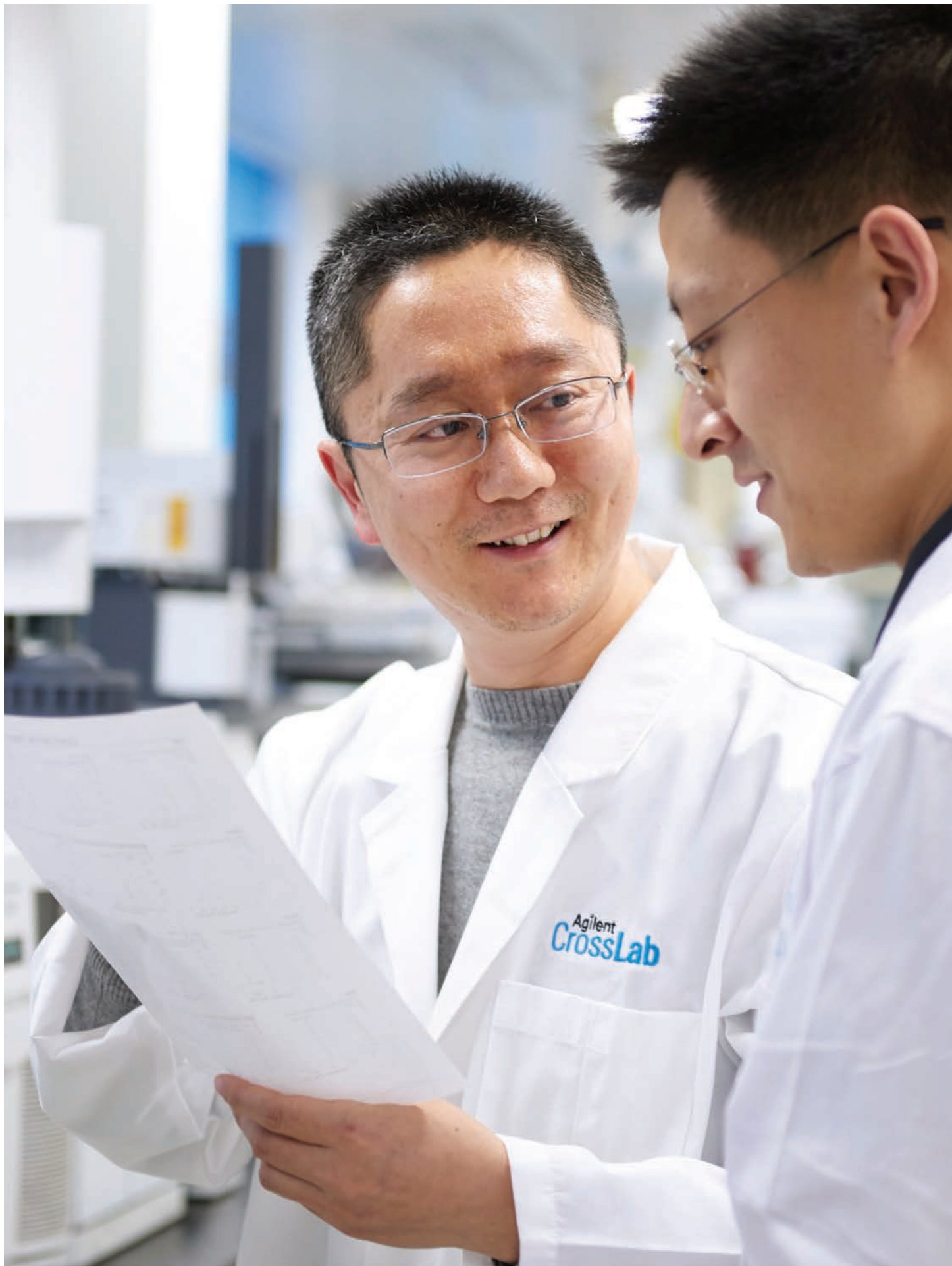


# Intelligent Performance for a Smoother GC Workflow

Agilent 8697 headspace sampler





# Intelligent Sampling That Simplifies Life in the Lab

Based on the flagship Agilent 8890 GC and 7697A headspace sampler, the Agilent 8697 headspace sampler is the first Agilent headspace sampler with integrated GC communication. That means you can manage your GC workflows from a single interface—and spend more time on what matters.

## Reliable, consistent inertness for superior GC performance

Featuring an inert sample pathway, the 8697 headspace sampler gives you consistent, repeatable GC results with no analyte loss or degradation.

## Compact footprint saves you bench space

The 8697 headspace sampler features a much smaller footprint than the 7697A, while still providing the reliability and durability you expect from an Agilent sampler.

## Proven technology, combined with the latest advances in instrument intelligence

Whether you're dealing with drinking water safety or a court case, getting results on time is critical—even when you're not in the lab.

With the 8697 headspace sampler, you get the results you need when—and where—you need them. Designed with advanced hardware features, such as the microchannel-based EPC module with atmospheric pressure compensation and valve-based sampling, the 8697 delivers unprecedented precision and performance.

These features combine with the integrated intelligence found in Agilent 8890, 8860, and Intuvo 9000 GCs, plus remote accessibility through the browser interface of those systems. And that means you can get instrument status updates wherever you are, inside or outside the lab.



Integrated intelligence enables the 8697 headspace sampler to deliver simplicity and productivity.

# First-Class Precision, Reliability, and Ease of Use

With thoughtfully developed technology and powerful software, the Agilent 8697 headspace sampler is packed with the latest productivity-boosting features. It's ideal for labs needing high throughput and performance, but only intermediate capacity.



## 1 Proven sample flow path

The 8697 headspace sampler features the same isolated carrier flow path as the 7697A headspace sampler. So, you can safely vent your vials.

## 2 Improved transfer line

- Easier installation. A captive septum retainer nut and improved inlet bracket simplify installation and provide the ruggedness your lab needs day to day.
- More robust. A clever new endcap protects the fused silica when the transfer line is not installed on the GC.
- Streamlined maintenance. Improved transfer line septa means fused silica can now be trimmed without replacing the septa.

## 3 Advanced sample preparation

- Maximum throughput. Optimized sample overlap lets you simultaneously heat and shake up to 12 vials.
- Remarkable sampling flexibility. The 8697 supports 10, 20, or 22 mL vials with no limitations on running mixed vial sizes.

## 4 Designed with sample handling in mind

- The capacity you need. Accommodates up to 48 sample vials, over two removable racks.
- Uninterrupted throughput. Removable sample racks can be exchanged while the headspace sampler is operating so you can add samples until your whole job is done.
- Convenient sample preparation. Easily prepare samples in removable racks for improved workflow optimization.
- Streamlined sample tracking. Optional barcode reader supports your lab's digital transformation.
- Convenient tool access. The tools you need for the headspace now have a dedicated storage location.

## 5 Know where you are

A smart park button and tray rack LEDs show you the state the headspace is in.

## 6 Integrated GC communication

Easily view status details on the GC touch screen and browser interface.



The Agilent Intuvo 9000 GC pairs with the 8697 headspace sampler for a very small footprint.



The Agilent 8890 GC pairs with the 8697 headspace sampler to provide the utmost flexibility for labs with the most demanding needs.

# Integrated Intelligence

Tired of having to check multiple interfaces to know the status of your instruments? The 8697 headspace sampler communicates directly with the Agilent 8890, 8860, and Intuvo 9000 GCs. This integrated technology provides a true systems approach to GC analysis, allowing you to view status information from the headspace sampler directly on the GC interface. So you can access all the information you need, all in one place.

Integrated intelligence also allows your GC and headspace sampler to work better together for optimized sequence throughput. If a given GC run needs longer to complete, the 8697 headspace sampler will automatically wait before injecting the next sample.

## Be confident with reliable Agilent design

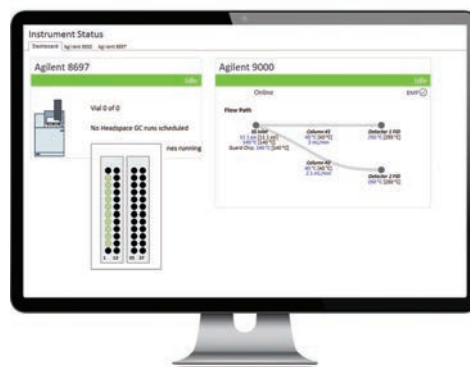
Each vial undergoes an automatic leak test during pressurization—without time-consuming calibration. So you can be confident that every sample is properly capped.

## Method development and conversion tools eliminate trial and error

The 8697 headspace sampler features three method development software wizards that enable you to:

- Convert existing valve-and-loop or pressure-balanced headspace methods to Agilent methods without tedious rework.
- Create headspace methods based on your specific application.

Once you have your method, the parameter increment function lets you easily optimize vial equilibration time, oven temperature, and vial shaking.



The Agilent OpenLab dashboard gives you at-a-glance information for each vial: run status, sample type, sequence actions performed, and which vials are in the oven.

## Intuitive GC touch screen interface

Gives you real-time access to instrument status and information.

### Home screen

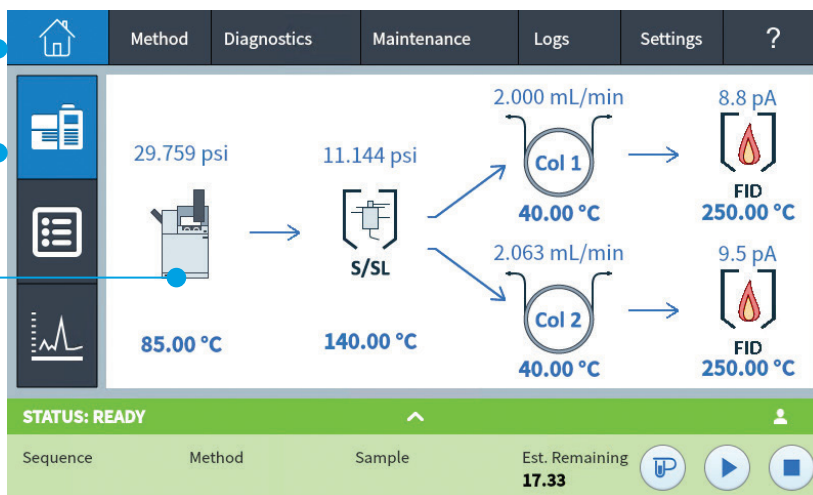
Provides at-a-glance updates on the system configuration and flow path.

### Instrument actuals screen

Allows you to customize and identify frequently used setpoints for quick accessibility.

### 8697 headspace

See the headspace on the GC touch screen for the very first time.

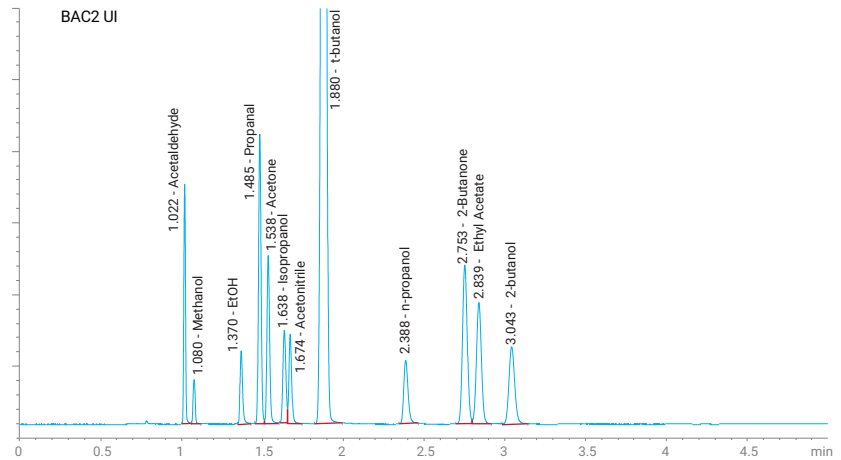


# The Data You Need for Your Critical Applications

## Forensics

### Reliably determine ethanol levels in blood samples

Dirty matrices like blood and biological samples are perfect for headspace analysis, because you can keep your GC clean without extensive sample preparation. With the 8697 headspace sampler, you can reliably separate ethanol from common interferences—and maintain the chain of custody using the optional barcode reader.

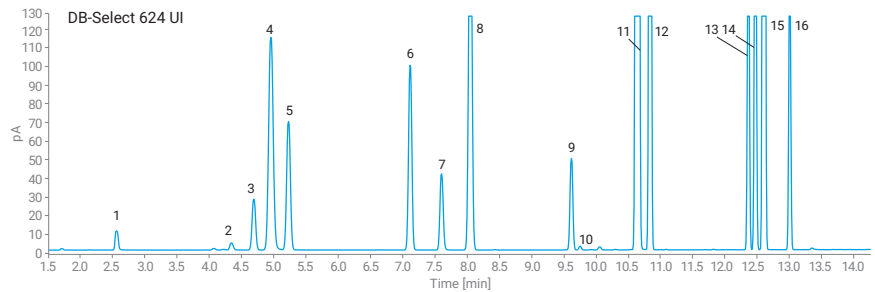


FID chromatogram of Agilent's Blood Alcohol Checkout mix (p/n 5190-9765) demonstrating transfer and resolution of all 12 components. The sample was prepared by combining 50  $\mu\text{L}$  of the mix with 450  $\mu\text{L}$  of 0.1% (v/v) t-butanol in water in a 20 mL headspace vial.

## Pharmaceutical

### Streamline your residual solvent workflow

With the 8697 headspace sampler, you can use the same method parameters as you would with the 7697A. So you can transfer your residual solvent methods with no method development.



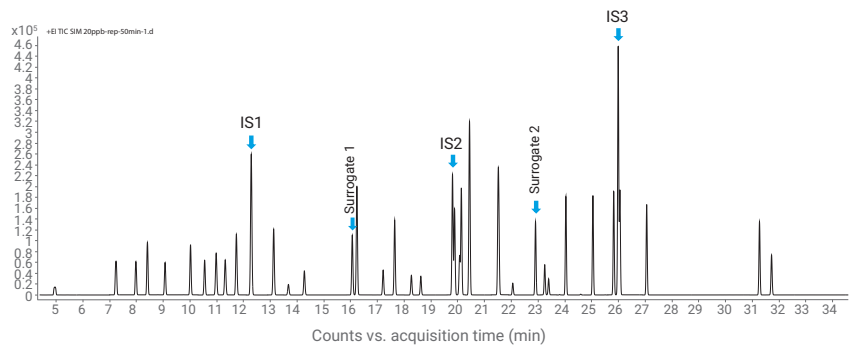
Flame Ionization Detector chromatogram for Class 2A solvents following USP<467>.

- |                       |                             |                      |                   |
|-----------------------|-----------------------------|----------------------|-------------------|
| 1. Methanol           | 5. trans-1,2-Dichloroethene | 9. Methylcyclohexane | 13. Chlorobenzene |
| 2. Acetonitrile       | 6. cis-1,2-Dichloroethene   | 10. 1,4-Dioxane      | 14. Ethylbenzene  |
| 3. Methylene chloride | 7. Tetrahydrofuran          | 11. MIBK/CPME        | 15. m/p-Xylene    |
| 4. tert-Butyl alcohol | 8. Cyclohexane              | 12. Toluene          | 16. o-Xylene      |

## Environmental

### Accurately detect volatile organic compounds

Detecting volatile organic compounds (VOCs) in soil and sediment is critical to meeting safety standards and ensuring regulatory compliance. Headspace sampling offers a direct approach for soil and sediment testing—and has productivity advantages such as low carryover, excellent repeatability, and simple method setup.



Total ion chromatogram of selected ions for a VOCs calibration standard with a concentration of 20  $\mu\text{g/L}$ .

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