

# Why operate on borrowed time?

Agilent technology refresh program  
for environmental labs



Your Agilent 6890 GC and legacy GC/MSD systems continue to deliver the results that helped you succeed in the past. However, it is risky to rely on aging equipment to meet stringent regulations and production requirements.

### Redefine what is possible in your laboratory

New Agilent GC systems build upon features developed for our trusted 6890 and legacy GC/MSD systems. They provide the sensitivity, reproducibility, and cost-efficient operation that were not possible 20 years ago.

- The 7820A GC delivers Agilent reliability for common applications
- The configurable 7890B GC produces reliable data today, and for decades to come
- The Intuvo 9000 GC is 25% more efficient and takes less than half the bench space required for traditional GCs
- Improved sensitivity and ease-of-use make Agilent GC/MSD systems the perfect partner for the new GC systems
- Agilent chromatography data systems—OpenLAB CDS, ChemStation Edition, or EZChrom Edition—give you answers you can trust.

These new GC and GC/MSD systems will help you handle current and future challenges as you analyze organic contaminants in water, soil, air, and food.



Agilent Intuvo 9000 GC



Agilent 7890B GC



Agilent 7820A GC



Agilent 5977B GC/MSD



Agilent 7000D and 7010B  
Triple Quadrupole GC/MS



### New environmental application notes

See how replacing your older instruments with new GC and GC/MSD innovations can help your lab.

View application notes now: [www.agilent.com/chem/borrowedtime](http://www.agilent.com/chem/borrowedtime)

# Resolve your search for productivity

Stop struggling unnecessarily to meet regulatory and reporting requirements.



For more than 50 years, Agilent has been committed to GC innovations, exceeding long-term performance expectations.



## Agilent 7820A GC

### The choice for routine analysis

A decreasing capital budget shouldn't mean living with the increased risk of aging equipment. The 7820A—with its simple valve configuration and range of detector options—delivers affordable, long-term innovation. And it's backed by the Agilent 10-year value promise guarantee.



## Agilent 7890B GC

### High performance with low operational costs

Close, regular monitoring of operating budgets can mean the difference between a profitable analysis or a loss for environmental laboratories. The cost-saving features available in the 7890B GC, together with its reliability and sensitivity, eliminate your daily struggle with old equipment. It features:

- An inert flowpath that minimizes the loss of low-level active compounds
- Retention time locking, split flow configurations, and backflush capabilities that help to maintain quality control requirements
- Helium Conservation Module with Sleep/Wake mode that decreases helium use and cost
- Auto calibrating hydrogen sensor for safer, less expensive use of hydrogen carrier gas



**Increase productivity up to 25%** by replacing one 6890 GC with one Intuvo GC

## Agilent Intuvo 9000 GC

### The business efficiency you've been dreaming of

Eliminate productivity obstacles and approach air, water, and soil analysis in a completely new way. Intuvo requires half as much bench space—and uses only half the power—of aging GC systems. Its groundbreaking features include:

- No nuts or ferrules, so anyone can change the column in less than a minute
- Guard Chip technology that protects the system from sample contamination
- No-clip columns that maintain their length, eliminating retention time update
- The perfect GC for use with 5977B, 7000D, and 7010B mass spectrometer systems



## Agilent 5977B GC/MSD and 7000D Triple Quadrupole GC/MS The newest versions of the most successful GC/MS systems

The 5977B High Efficiency Source (HES) GC/MSD can improve sensitivity by 10X, and decrease sample preparation time by eliminating concentration steps. It also increases the length of time between cleaning.

The 7000D/7010B with dynamic multiple reaction monitoring (dMRM) provides increased precision at low levels, focusing on compounds when they elute and not wasting time when they don't. Also, 5973/5975 and 5977 GC/MSD SIM and scan methods can be loaded directly into a 7000D.

## Move your lab ahead with Agilent GC innovations

### An integrated approach to inertness

Flow path inertness is the cutting edge of GC, which is why Agilent has integrated inert flow path solutions into our next-generation GC systems. The Agilent Inert Flow Path ensures reliable, consistent inertness from injector to detector, decreasing analyte adsorption for lower LODs and better s/n response. That means you can achieve the parts-per-billion—or parts-per-trillion—detection levels that today's environmental analysis demands.

### Increased sample throughput with the Agilent Intuvo GC System

The Intuvo system lets you get more done in less time at the lowest cost per sample—without having to change your existing methods. It features fast oven cool-down, new backflush capabilities, and advanced automation.

### Integrated system intelligence

Early maintenance feedback allows you to eliminate unexpected downtime. This improved communication between the GC and the mass selective detector cuts venting time by up to 40%, and protects the system from damage by stopping the flow of carrier gas during shutdown events.

### Improved dependability

The Agilent J&W Ultra Inert GC column family pushes industry standards for consistent column inertness and exceptionally low column bleed, resulting in lower detection limits and more accurate data for difficult analytes.

### Expanded chromatographic capabilities

Backflush, flow splitters, GCxGC, Dean switches, and purged unions are all provided by Agilent capillary flow technology.



For further information about Agilent GC and GC/MSD solutions, go to: [www.agilent.com/chem/borrowedtime](http://www.agilent.com/chem/borrowedtime)



## Take your data, and your data system, forward

Agilent has taken a step forward with state-of-the-art software. Our OpenLAB chromatography data systems are compatible with your existing methods and data, enabling you to take full advantage of the advanced features built into our chromatographs. What's more, our reporting software is drag-and-drop simple and provides time-saving steps in your analysis, interpretation, and reporting workflows.

Learn more

[www.agilent.com/chem/borrowedtime](http://www.agilent.com/chem/borrowedtime)

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From Insight to Outcome

## Agilent CrossLab Services: Maximize uptime with end-to-end support

You can trust Agilent CrossLab service experts to deliver valuable insights and keep your instruments running at top performance. Our industry-leading services—tailored to meet your needs—include technology refresh services, application consulting, repairs, preventive maintenance, compliance verification, and education. Ask us how we can support your laboratory today.

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