

Agilent SLIMS for PFAS Water Testing

Transform workflow inefficiencies into opportunities



Made to execute PFAS workflows

Manual steps in your PFAS testing workflow can introduce errors, inefficiency, and noncompliance. Closing these gaps improves the speed and quality of your results while reducing the chance of citations and downtime.

From order intake to final result

Agilent SLIMS for PFAS testing significantly reduces manual steps through end-to-end workflow integration, eliminating gaps between sample intake and answer. It provides:

- Inventory tracking for consumables (e.g., HPLC columns, standards, solvents) and instruments
- Library of preset specifications based on regulation standards (e.g., U.S. EPA)
- Ready-to-use sample preparation protocols based on industry standards (e.g., U.S. EPA Method 1633)
- Streamline integration with mass spectrometry instrumentation and software, especially Agilent MassHunter suite
- Powerful report engine for all data collected or computed by the software

SLIMS for PFAS advantages

- Gets you productive within days with optimized configurations.
- Reduces training burden through ready-made sample preparation protocols and step-by-step guidance.
- Efficiently captures and archives sample lifetime history.
- Increases sample throughput and prevents costly errors by eliminating manual transcription.
- Integrates with a range of Agilent and non-Agilent systems, including MassHunter software suite.
- Improves productivity by having a unique solution to manage all laboratory content and context.
- Instantly identifies off-spec results.
- Tailors the experience to your needs: your lab, your samples, your choice.
- De-stresses audits with automated compliance features and full traceability.

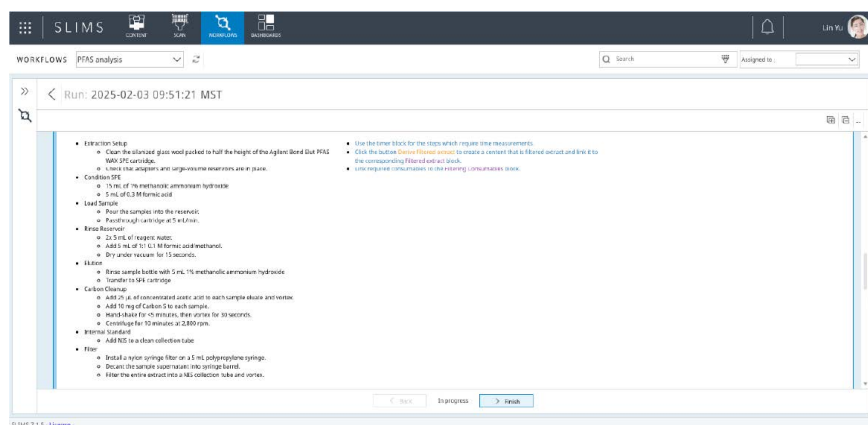


Figure 1. SLIMS drives the user in the execution of the entire PFAS testing workflow. Here, the sample preparation steps are shown.

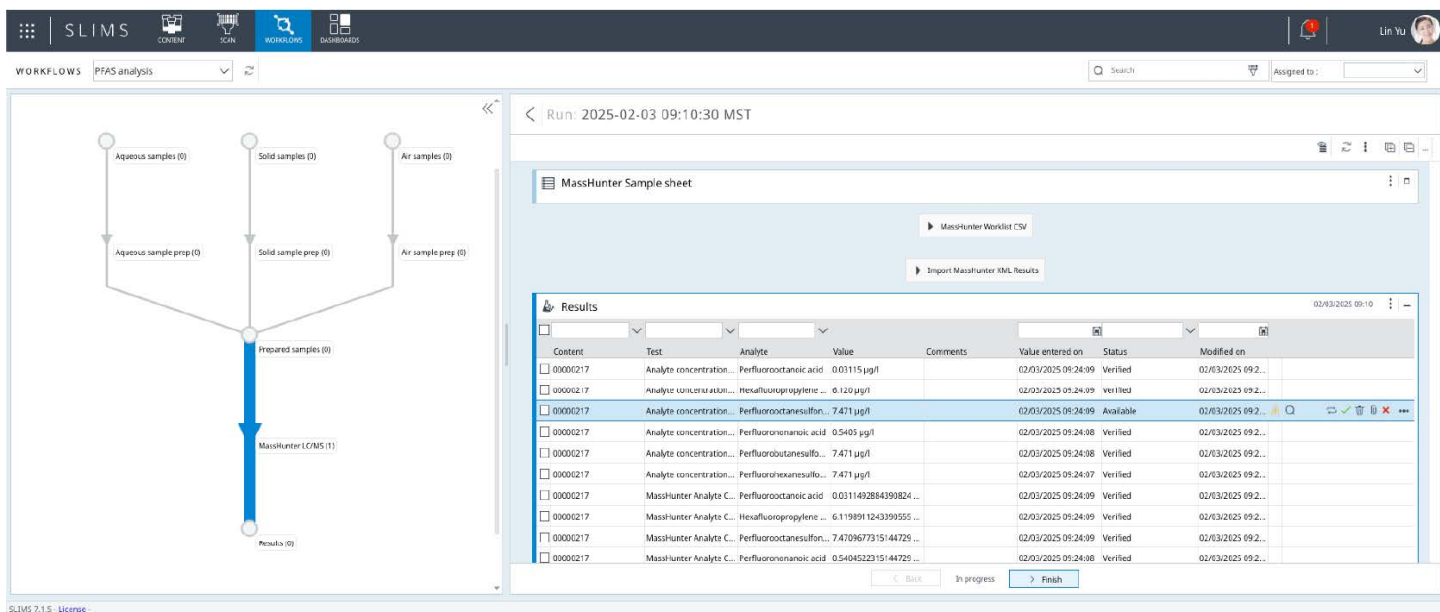


Figure 2. SLIMS comes with predefined integrations with instruments ranging from balances to more complex systems. Here, a bi-directional interface with MassHunter and LC/MS/MS systems is shown.

Flexible deployment

SLIMS offers flexible installation options. It can be hosted by Agilent on a scalable, powerful, secure server, or by your favorite cloud service provider. The system can also be installed on a server within your IT infrastructure. SLIMS only needs a web browser, requires no further software on client computers, and can also be used on tablets.

A single source vendor to support PFAS testing applications

Agilent is the only supplier that provides start-to-finish solutions that address PFAS analysis. These full workflow solutions include sample containment, sample preparation, extraction, and liquid chromatography/mass spectrometry (LC/MS) analysis.

Partner with Agilent

Agilent PFAS solutions and support can ensure your continued success:

- Industry-recognized PFAS analysis expertise, including training, service, and support
- A one-stop shop, end-to-end PFAS workflow provider
- Complete PFAS solutions for EPA methods 533, 537.1, 1633, and 8327

Mind the Gap – remove the risks between sample and answer

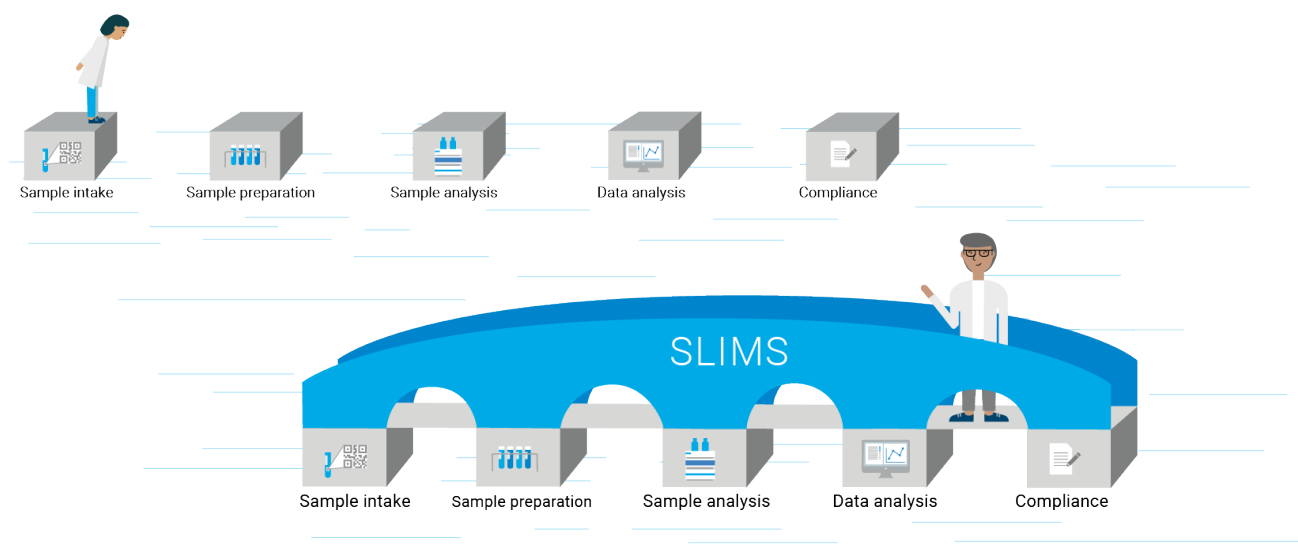


Figure 3. Agilent SLIMS helps you bridge the gaps in your PFAS water testing workflow, increasing efficiency and reducing the risk of introducing manual errors.

Wondering if you need SLIMS for your PFAS water testing workflow?

Agilent has the answers!

Why is it important to stay compliant with EPA Good Laboratory Practices (GLP)?

Testing for PFAS in water is complex, and federal scrutiny is increasing. Continuing to operate as a trusted analysis lab in this sector will require rigorous attention to process documentation, data integrity, and visibility.

Am I able to quickly adapt to rapidly evolving EPA limits and standards?

With the April 10, 2024 announcement from the EPA¹ around limits for PFAS in drinking water, your lab needs to be prepared to add and adjust method specifications. With SLIMS, you can take the headache out of method change control processes with tools to add, edit, and version new specifications quickly and compliantly.

Can I readily access the metadata for an audit – what was done, when, where, and by whom?

SLIMS helps you manage and access large volumes of data, making sure you can respond to audit requests and take important actions quickly.

Where are the potential bottlenecks in my workflow? When can my customers expect their results?

With SLIMS, you'll get answers quickly. At-a-glance graphical dashboard view of your samples helps you accurately estimate workflow timings and make quick business decisions.

What happens if incorrect sample information gets entered?

SLIMS tracks and flags errors so adjustments and retesting (if needed) can be made quickly, and it helps prevent less experienced users from entering information that might compromise the quality of the results.

How do I ensure that sample analysis was performed according to the SOP, with necessary approvals?

SLIMS walks you step-by-step through the workflow, ensuring the right instrument for each task, automated record keeping of solvents and consumables, compliant recording and validation of results, and more.

References

1. United States Environmental Protection Agency. (2024, April 10). Per- and Polyfluoroalkyl Substances (PFAS). www.epa.gov/sdwa/and-polyfluoroalkyl-substances-pfas

Talk to your Agilent representative about the advantages of Agilent SLIMS for PFAS water testing, or visit

www.agilent.com/chem/agilentslims-pfas

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