

# Технические характеристики

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# Easily bring your data with you when upgrading to OpenLab CDS

Agilent OpenLab CDS

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## The time to upgrade is now

- Is your software running on an out-of-support operating system?
- Are you unable to take advantage of the latest instrumentation due to cost and downtime?
- Are you spending too much time on IT tasks instead of running samples?
- Is your lab in need of solutions to enhance data integrity?



## Technology refresh made easy

OpenLab CDS workstation now includes tools that automate migration from legacy ChemStation, ChemStation Edition, EZChrom Edition, and Galaxie CDS. The automated process reduces cost and downtime when upgrading to OpenLab CDS. You won't have to recreate methods so results obtained yesterday can be compared to those obtained today. User and instrument information is seamlessly moved to the new system so you can start using your new data system immediately. Bring the following data to OpenLab CDS:

- **Result sets** – Re-use your data in OpenLab CDS data analysis
- **Methods** – Import and re-use methods in OpenLab CDS acquisition or data analysis
- **User and instrument information** – Move users, user groups, roles, permissions, and instrument configurations

## Move your lab into the future with OpenLab CDS

Agilent OpenLab CDS is the next generation CDS, designed for ease of use and productivity. OpenLab CDS offers the most comprehensive instrument control and data acquisition for Agilent instruments including GC, LC, GC/MS Single Quadrupole, LC/MS Single Quadrupole, and Supercritical fluid chromatography (SFC). In addition, OpenLab CDS supports an expanding array of instrumentation from other vendors – a true one software system for the analytical laboratory.

## Key features support a smooth transition to OpenLab CDS

For ChemStation and EZChrom Edition customers, these features enable:

- **Efficient import of result sets** – Import the method associated with a result set, reprocess the data, and convert it to OpenLab CDS format without modifying the original result set.
- **Expanded import of methods** – Now includes compound identification settings and integration events.
- **Automatic method import upon opening a result set in data analysis** – With a simple click in a box, locate the method associated with the open result set to help create a new method.
- **Cross project file open** – Work within one project and browse to a different project to simplify creation of OpenLab CDS result sets and methods.

## Keep your lab current and lower your upgrade costs

Keep OpenLab CDS up-to-date with the most recent features and updates, and receive help when you need it. An Agilent annual software maintenance subscription (SMA) entitles you to free upgrades and priority assistance when you call Agilent.

## CrossLab Technology Refresh Services

OpenLab CDS migration tools are automated, free of charge, and easy to use. We also offer a complete set of services to help with your data migration. Let us consult with you to help manage the transition of methods, workflows, and data to your new platform.



# OpenLab ChemStation

OpenLab ChemStation is a chromatography data system with great flexibility for method development. It offers seamless instrument control of Agilent LC, GC, CE, CE/MS, and LC/MS systems.

OpenLab ChemStation supports advanced features and workflows of Agilent GC and LC instruments with add-on software and provides flexibility for research and method development laboratories.



## Features

- Seamless control of Agilent instruments – Access the most advanced capabilities of your Agilent LC, GC, CE, CE/MS, and LC/MS systems
- Complete control of purification workflows – Supports Agilent mass-based fraction collection (including easy access WalkUp software) and automated purification solutions
- Ideal for LC method development solutions – Supports Method Scouting Wizard and third-party method prediction software
- Advanced reporting capabilities – Build more meaningful reports using powerful and intuitive drag-and-drop capabilities
- View your entire lab at a glance – View the status of all your instruments in the CDS network from a single user interface
- Scalable architecture – Improve lab operations through better access to instruments and information with a networked configuration

## Specifications

<b>Current Software Version</b>	C.01.10		
<b>Deployment Model</b>	Workstation Client/Server	Secure Workstation Virtualization	Networked Workstation
<b>Selectable Languages</b>	English Brazilian Portuguese	Chinese	Japanese
<b>Software Delivery</b>	Electronic	USB Media	
<b>Supported Data Management</b>	OpenLab Server	OpenLab ECM XT	OpenLab ECM
<b>Supported Instruments</b>	Agilent LC Agilent CE Agilent Headspace Waters LC	Agilent GC Agilent Supercritical Fluid Chromatography (SFC) PAL Autosampler Systems	Agilent LC/MS SQ Agilent MicroGC Agilent A/D Converter
<b>Supported Software Add-Ons</b>	MatchCompare 2D Data Analysis Software (GC image) Bio-SEC Software LC/MS Deconvolution / Bioanalysis Software MassHunter WalkUp	Method Scouting Wizard Automated Purification Software GPC/SEC Software Analytical Studio Reviewer (ASR)	Buffer Advisor Software RGA/NGA Lab Advisor Diagnostics (LC & LC/MS only) ADFExport
<b>Techniques</b>	Fraction Collection	GPC/SEC	2D LC

# OpenLab EZChrom

OpenLab EZChrom is a chromatography data system that provides proficient control of Agilent and non-Agilent LC and GC instruments. OpenLab EZChrom supports existing customers' highly automated workflows.



## Features

- LC and GC instrument control – Offers proficient control of your Agilent and non-Agilent LC and GC instruments
- Accelerate data processing and review – Eliminate manual steps, process and view large data sets significantly faster
- Advanced reporting capabilities – Build more meaningful reports using powerful and intuitive drag-and-drop capabilities
- View your entire lab at a glance – View the status of all your instruments in the CDS network from a single user interface
- Scalable architecture – Improve lab operations through better access to instruments and information with a client/server configuration

## Specifications

<b>Current Software Version</b>	A.04.10		
<b>Deployment Model</b>	Workstation	Client/Server	Virtualization
<b>Selectable Languages</b>	English Brazilian Portuguese	Chinese	Japanese
<b>Software Delivery</b>	Electronic	USB Media	
<b>Supported Data Management</b>	OpenLab Server	OpenLab ECM XT	OpenLab ECM
<b>Supported Instruments</b>	Agilent LC Agilent Headspace Non-Agilent LC	Agilent GC PAL Autosampler Systems Non-Agilent GC	Agilent MicroGC Agilent A/D Converter
<b>Supported Software Add-Ons</b>	Sample Scheduler	MatchCompare	Lab Advisor Diagnostics (LC & LC/MS only)
<b>Techniques</b>	Smart Sequencing		

# Expand your storage possibilities

Upgrade to OpenLab ECM XT



Secure data from both Agilent and non-Agilent data systems while preparing for future regulatory requirements with a simple-to-implement data management system.

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## A networked solution for your entire lab

A networked OpenLab chromatography data system is a great way to secure your data, speed access to information, remove laboratory bottlenecks, and speed the accurate deployment of methods across your lab.

Upgrade to OpenLab ECM XT to capitalize on these additional benefits:

- Securely archive data from other data systems.
- Automatically secure and trace activities on instrument reports.
- Collaboratively create, manage, and track changes in Microsoft Office documents.
- Quickly find all your data, documents, and reports with one simple search tool.

## Prepare for the future

With OpenLab ECM XT, your lab will be prepared to address new regulatory requirements. When additional traceability or signature workflows become necessary, you'll already have a system that supports the basic requirements.

## A simple upgrade

If you are currently using OpenLab CDS, or OpenLab CDS ChemStation Edition in client-server configuration with OpenLab Server as the data repository, you can quickly upgrade by adding a license and the appropriate components to your existing installation.



## OpenLab ECM XT enables you to:

- Archive data from non-Agilent data systems
- Automatically secure reports
- Prepare for future regulatory requirements

## OpenLab ECM XT can help meet your content management challenges

### Problem

### OpenLab ECM XT lets you:

*"Our data files, e-records, and other documents are sometimes edited inappropriately."*

- Restrict access to authorized individuals only
- Record and review the time, date and the person responsible for every file update
- Recover and review each and every version of a file, e-record or data from selected Agilent data systems

*"We're wasting too much time, space, and money filing paper records."*

- Store and organize e-versions of documents
- Ensure that every report is stored in the right place
- Turn paper storage area into productive space

*"The constant need to add more storage capacity is time-consuming and resource-intensive."*

- Store and archive data in the cloud to:
  - Minimize storage maintenance and reduce IT workload
  - Scale quickly and easily without the need to install, upgrade, or maintain storage across multiple servers

*"Adopting new technologies is time-consuming and costly. It also hurts productivity during the transition."*

- Remove barriers to deployment:
  - No client deployment necessary
  - If you currently run OpenLab CDS client/server, installing OpenLab ECM XT is an "in-place" upgrade with no data migration
  - Flexibility to use your preferred database
- Minimize costs: OpenLab ECM XT has a smaller footprint than competitive software packages

*"Finding and reviewing information is a hassle—especially when we have to travel to inconvenient locations."*

- Easily search and review your data and files from any location—find raw data, methods, reports, through keyword search fields
- Review selected Agilent CDS data from any PC connected to your network

*"How do we make sure files are stored permanently in their last used state?"*

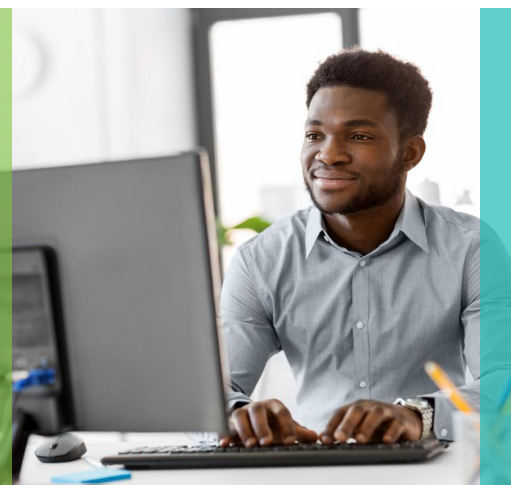
- Automatically store data and files at the appropriate time
- Lock data and files to prevent further modifications

*"Managing data and files using nonlocal languages is error prone, and requires training."*

- Navigate the interface—and manage files—in local languages, such as English, Chinese, Japanese, and Brazilian Portuguese

# Build a More Secure and Connected Lab

Agilent OpenLab ECM



Take control of your data—and your success—with OpenLab ECM. Simply put, OpenLab ECM allows you to collect data from any location, maintain data integrity, and manage your data without disrupting your lab workflow. So you can meet today's data traceability requirements, and present your results in the best possible light.

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## Data integrity: the reliable lab

Benefit	Features
The right information to the right people	<ul style="list-style-type: none"><li>– Full access control at the system and content structure levels</li></ul>
Adapts to any data management deployment strategy	<ul style="list-style-type: none"><li>– Supports local and distributed repository configurations</li><li>– Flexible user management (locally or via AD) with configurable access control settings</li></ul>
Full lifecycle event tracking	<ul style="list-style-type: none"><li>– Archived data is accessible via the central repository</li><li>– Full traceability between metadata and stored files</li><li>– Revision control and activity log history at record and system levels</li></ul>

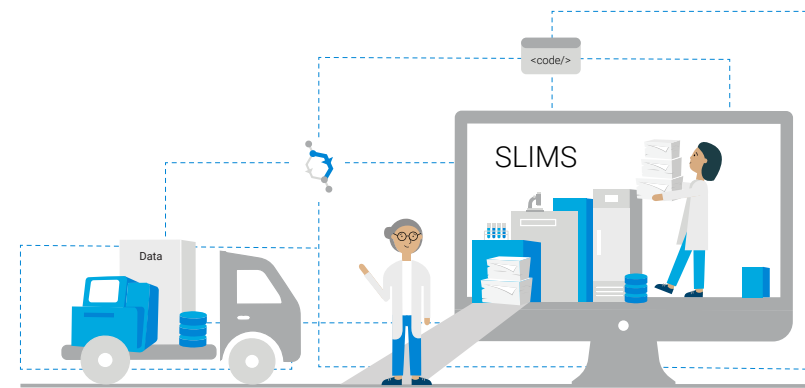


## Data management: the connected lab

Benefit	Features
Easy collaboration with internal/external partners	<ul style="list-style-type: none"><li>- Flexible, logical organization of information</li><li>- Global and remote access</li><li>- Automated notifications</li><li>- Hyperlinks to related files</li><li>- Review/approval workflow</li></ul>
Information at your fingertips	<ul style="list-style-type: none"><li>- Robust metadata management with filter library</li><li>- Simple, intuitive content organization/navigation</li></ul>
Quickly review files from common chromatographic data systems	<ul style="list-style-type: none"><li>- Central location</li><li>- Technology-neutral file viewer: no dedicated software needed</li></ul>
Regain full access to data details in the software of origin even when files have been converted or compressed for long term storage.	<ul style="list-style-type: none"><li>- On-demand restoration of data files to native format for common data sources</li></ul>
Robust search results	<ul style="list-style-type: none"><li>- Scalable metadata and content search</li></ul>
Store/manage data from any source in any format	<ul style="list-style-type: none"><li>- Multiple content upload mechanisms:<ul style="list-style-type: none"><li>- Direct API connections<ul style="list-style-type: none"><li>• Scheduler</li><li>• Print service</li><li>• Send-to</li><li>• Desktop integration</li></ul></li><li>- View scientific data via the ECM user interface (technology-neutral viewer)</li></ul></li></ul>
Automatically secure and centralize your data	<ul style="list-style-type: none"><li>- OpenLab ECM Scheduler fully automates content upload in the background</li><li>- Built-in configuration enables automated content archiving</li></ul>

# What is Agilent SLIMS?

Agilent SLIMS combines a laboratory information management system (LIMS) and electronic laboratory notebook (ELN) in a single system, enabling comprehensive workflow management. SLIMS is flexible and configurable, helping you increase your lab's productivity. The system is designed to support the requirements of ISO17025, 21 CFR Part 11, HIPAA, and CLIA.



## Domains

SLIMS can be applied within various fields to facilitate data collection and record keeping, improving reproducibility and compliance and streamlining processes.

### Analytical

- Track complete request lifecycle from analysis to results
- Use SOPs to generate and follow worklists
- Provide product specification testing management
- Integrate with chromatography data systems

### Research

- Take notes interactively and follow workflow steps
- Flexibly manage protocol features
- Integrate sample data, experiments, users, and more
- Optimize sample repository management

### NGS

- Pool libraries and assign lanes
- Design NGS plates with drag-and-drop functionality
- Track external barcodes or assign plate layout indexes
- Export sample sheets directly to integrated sequencers

### Biobanks

- Automate external lab instruments
- Design complete, detailed studies
- Collect, schedule, and send samples to workflows
- Register subjects and restrict personal data access

# Enhancing the Everyday Life of Labs

## Time-saving SLIMS Store

When installed, SLIMS is ready to be adapted to your lab. The SLIMS Store maintains a collection of preconfigured packages that are ready to install and will get you fully functional quickly. Additionally, you can customize any of the packages after they are installed in your SLIMS deployment.

## Flexible deployment

SLIMS offers flexible installation options, deploying to either a virtual or physical server. Using Amazon's ECS technology, SLIMS can be used in the cloud on a scalable, powerful, secure virtual server—or installed on a server within your IT infrastructure.

## Easy integration

SLIMS generates the sample sheet and returns results for many NGS sequencing machines (such as BGI, and others), QC machines (such as Agilent TapeStation, Fragment Analyzer, and Bioanalyzer systems), analytical instruments including LC, GC, MS, ICP, and Chromatography Data Systems (CDS) systems such as Agilent OpenLab CDS and others.

It can also be connected to other Agilent and non-Agilent laboratory software systems, SAP, and bioinformatics platforms.

SLIMS fully interfaces your instruments and software. It features three APIs (REST, Java, and Python), which allow communication with third-party systems.

## Multiple features

SLIMS includes features and modules that can be tailored to meet the needs of your lab.

### Sample management

- Digitally track samples and retain lineages
- Record results for reporting
- Maintain data integrity

### Dashboard

- Display graphs, tables, and text on one screen
- Access different parts of system simultaneously
- Use shortcuts to simplify repetitive tasks

### Workflows

- Visualize workflows with Workflow Management module

### Electronic laboratory notebook

- Replace paper lab book with electronic record
- Organize experiments by project name and create SOPs
- Connect sample and reagent information with test results
- Add lab notes and attachments

### Order management

- Provide access to track orders
- Create, manage, and monitor test requests
- Review and validate results

# From samples to results On time and error free

## Sample Scheduler for OpenLab

Run your chromatography lab using one easy-to-use application that integrates with your LIMS to automate common error-prone and time-consuming tasks.

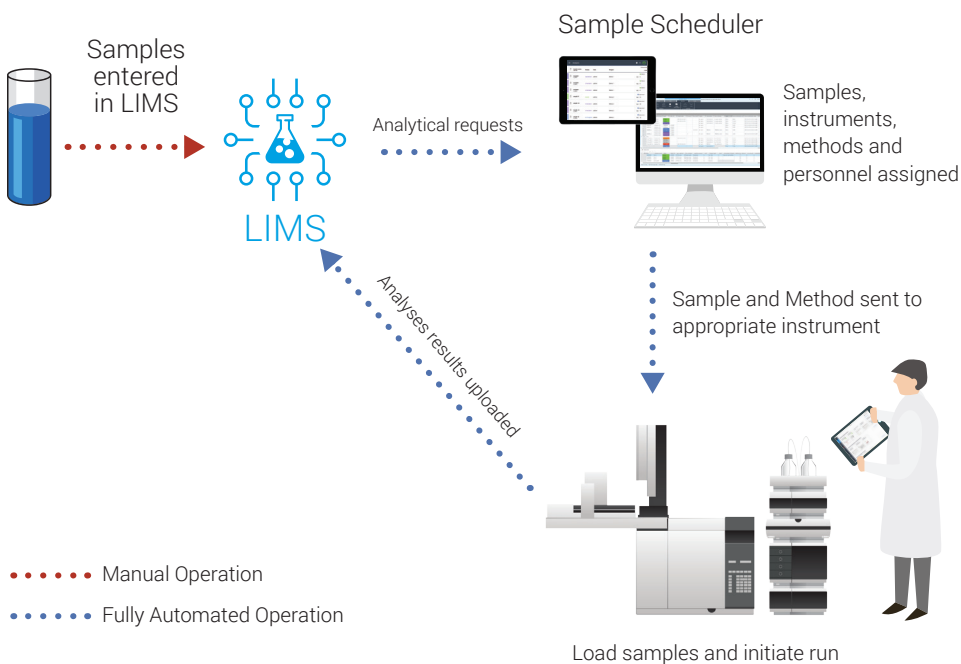
- Automate sample worklist creation for faster, effective lab operations.
- Ensure that results contain no transcription mistakes for reliable results attribution in LIMS.
- Achieve greater accuracy with optional supervisor review using the Review & Submit function.
- Reduce compliance risks with technical controls that increase data integrity.

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### Ensure data integrity with:

- Password-protected user login
- Role-based privileges
- Audit trails



Sample Scheduler for OpenLab automates the inefficient error-prone steps in your operation, ensuring that the right sample is run on the right instrument using the right methods. Senior staff will appreciate the full lab overview from a desktop or mobile device. Analysts will love the elimination of tedious, redundant data-entry steps and the complete view of their daily workload.

## Benefits for lab managers and analysts

- Optimize lab operations from anywhere.
  - Review your entire lab's sample queue and investigate the status of every instrument from a mobile device or desktop PC.
  - Get the fastest possible turnaround time by scheduling priority samples on the next available instrument.
  - Quickly identify and correct instrument issues using clear visual notifications.
  - Onboard new operators and technicians quickly.
- Improve quality.
  - Eliminate errors due to mistakes in manual data entry.
  - Ensure that results are reliably assigned to the correct sample in your LIMS by automating result entry.
  - Be confident that high quality results are transferred to your LIMS by using the optional Review & Submit function.

## Benefits for operators and technicians

- View personal workload at a glance.
- Schedule routine maintenance and calibration procedures before the start of the workday.
- Manage and submit samples from a simple interface on a desktop or mobile device.
- Review instrument and sample tray assignments from a mobile device and initiate the run from the same mobile device, all while standing in front of the instrument.
- Quickly identify and fix errors using clear visual notifications.

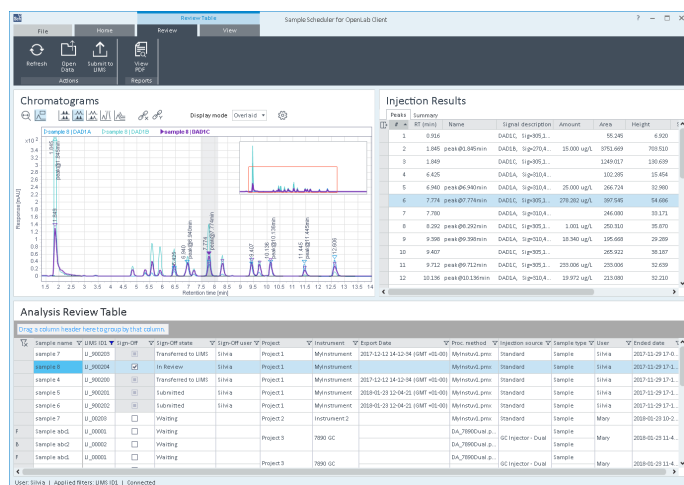


Figure 2. Review results of completed analyses and submit to LIMS if appropriate. Or if needed, open a full interactive OpenLab data analysis session to address processing mistakes (only available on Desktop PC).

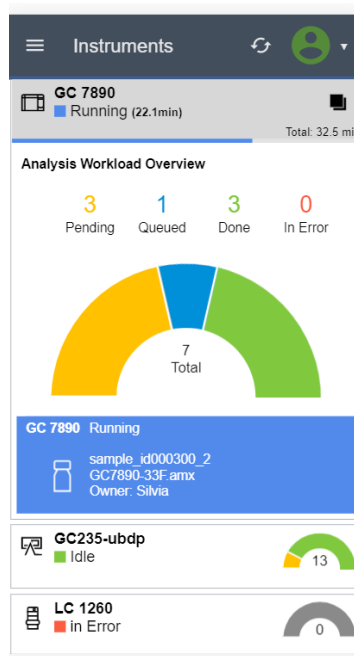
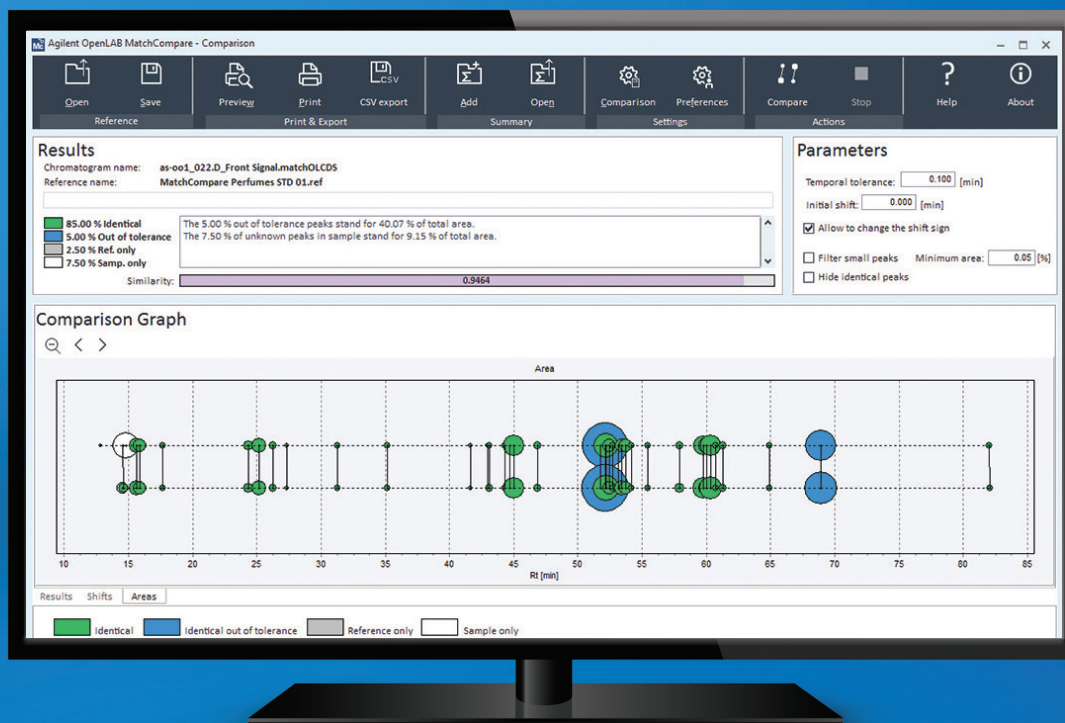


Figure 3. Using a mobile device, review the instrument state and details on how many samples are assigned to each. Click an instrument tile to reveal more, such as name of the running sample, the acquisition method, and the current user in charge of the analysis.

# Save Time by Streamlining Quality Control

Agilent OpenLab CDS MatchCompare A.01.03.1

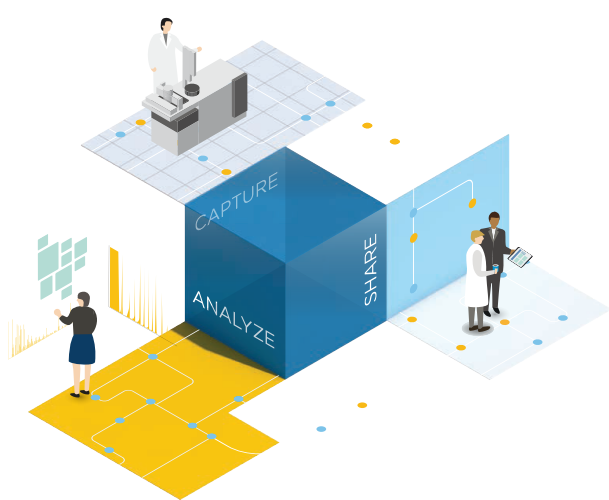


# Make Quick, Rigorous Comparisons Between Standard and Reference Chromatograms

Agilent OpenLab CDS MatchCompare automates the time-consuming task of comparing quality control chromatograms. Originally developed to help chromatographers identify small differences between two chromatograms, it is also applicable to a wide range of samples where an overall “A/B” comparison is desired.

By objectively comparing unknown samples to a known standard, MatchCompare quickly identifies similar chromatographic peaks between two chromatograms, and compares areas against predetermined ranges. This quality control process provides higher throughput for many GC and LC applications.

In addition to quantifying individual components, chromatographers must frequently compare two different samples, or a sample to a reference, focusing on the overall chromatogram fingerprint. Typically, this is achieved by overlaying the chromatograms to manually examine the chromatographic traces and judge how well the two chromatograms match. This method provides a subjective comparison, which relies on years of training and experience.



## Make comparisons based on retention index with OpenLab CDS 2

Agilent OpenLab CDS MatchCompare A.01.03.1 offers compatibility with OpenLab CDS 2.x while retaining compatibility with Agilent ChemStation and Agilent EZChrom Editions. When combined with OpenLab CDS 2, OpenLab CDS MatchCompare uses the custom calculator feature to enable comparisons based on both retention indices and retention times.

### Highlights:

- Integrate seamlessly with OpenLab CDS
- Quickly identify and match peaks between two complex samples
- Monitor product content uniformity by peak area comparison
- Save time with automated product-conformity reports
- Increase efficiency by eliminating reference sample reinjection

# Compare Major Components and Trace Compounds



One of the most important features of MatchCompare is its ability to compare both major components and trace compounds. This capability makes the application an ideal tool for any screening application where consistency is critical.

**Results**

Chromatogram name: as1b\_008\_D\_Front Signal.matchOLCDS  
 Reference name: MatchCompare Perfumes STD 01.ref

77.08 % Identical  
 4.17 % Out of tolerance  
 8.33 % Ref. only  
 10.42 % Samp. only

Similarity: 0.9474

The 4.17 % out of tolerance peaks stand for 0.35 % of total area.  
 The 10.42 % of unknown peaks in sample stand for 0.19 % of total area.

**Parameters**

Temporal tolerance: 0.100 [min]  
 Initial shift: 0.000 [min]  
 Allow to change the shift sign  
 Filter small peaks Minimum area: 0.05 [%]  
 Hide identical peaks

**Result Table**

Name	Rt Samp	Rt Ref [min]	DT	% Samp	% Ref	% Error	Tol [%]	Info	Remarks
Unknown	2.2135	2.2136	-0.0001	93.9939	94.0921	-0.10	6.00	Id., Tall peak	
Unknown	2.2628	2.2631	-0.0003	0.4132	0.3283	25.84	15.00	Id. OT	
Unknown	2.3419	2.3420	-0.0001	0.0478	0.0481	-0.49	30.00	Id.	
Unknown	2.5448	-----	-----	-----	0.0042	0.00	30.00	Ref.	
Unknown	2.6255	-----	-----	0.0308	-----	-----	-----	Samp.	
Unknown	2.5445	2.6256	-0.0811	0.0056	0.0236	-76.50	30.00	Id. OT	
Unknown	2.8238	-----	-----	0.0098	-----	-----	-----	Samp.	
Unknown	-----	2.8238	-----	-----	0.0075	0.00	30.00	Ref.	
Unknown	3.4572	-----	-----	0.0050	-----	-----	-----	Samp.	
Unknown	-----	14.5257	-----	-----	0.0753	0.00	30.00	Ref.	
Unknown	14.5258	-----	-----	0.0750	-----	-----	-----	Samp.	
Unknown	14.6123	-----	-----	0.0703	-----	-----	-----	Samp.	
Unknown	-----	14.6123	-----	-----	0.0726	0.00	30.00	Ref.	
Unknown	15.6065	15.6065	0.0000	0.1492	0.1492	-0.05	15.00	Id., Tall peak	
Unknown	15.9137	15.9138	-0.0001	0.1135	0.1148	-1.09	15.00	Id.	
Unknown	17.6694	17.6704	-0.0010	0.0354	0.0348	1.56	30.00	Id.	
Unknown	24.3699	24.3716	-0.0017	0.0641	0.0643	-0.28	30.00	Id.	
Unknown	25.1839	25.1861	-0.0022	0.1405	0.1403	0.12	15.00	Id., Tall peak	
Unknown	26.2557	26.2581	-0.0024	0.0407	0.0406	0.11	30.00	Id.	
Unknown	27.3523	27.3548	-0.0025	0.0159	0.0159	0.09	30.00	Id.	
Unknown	31.2461	31.2486	-0.0025	0.0251	0.0249	0.62	30.00	Id.	
Unknown	35.1585	35.1611	-0.0026	0.0247	0.0246	0.49	30.00	Id.	
Unknown	41.6398	41.6434	-0.0036	0.0138	0.0140	-1.15	30.00	Id.	
Unknown	42.9932	42.9958	-0.0026	0.0149	0.0151	-0.96	30.00	Id.	
Unknown	43.1248	43.1284	-0.0036	0.0367	0.0365	0.54	30.00	Id.	
Unknown	44.2929	44.2965	-0.0034	0.0238	0.0239	-0.33	30.00	Id.	
Unknown	44.6777	44.6812	-0.0035	0.0533	0.0533	0.00	30.00	Id.	
Unknown	44.9799	44.9836	-0.0037	0.3091	0.3088	0.09	15.00	Id., Tall peak	

Results Shifts Areas

Identical Identical out of tolerance Reference only Sample only

## Applications include:

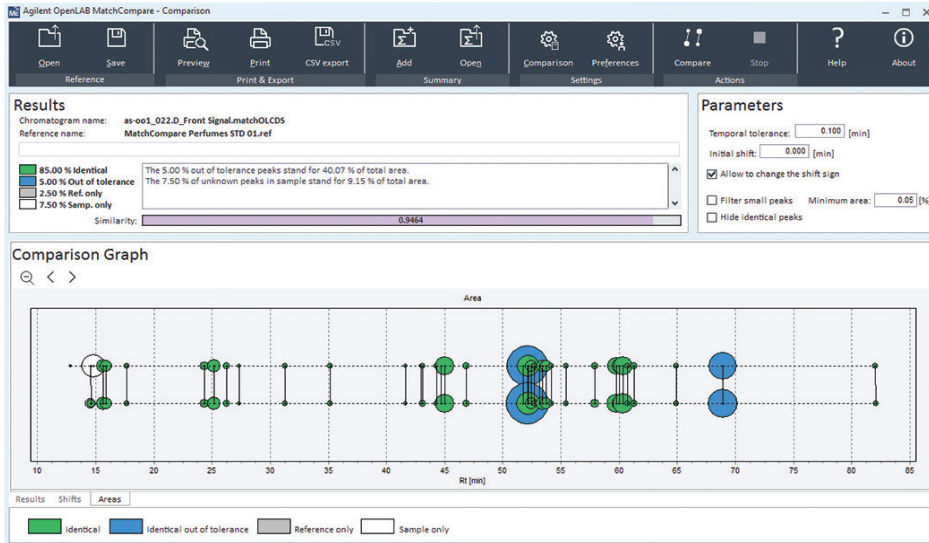
- Flavors and fragrances
- Screening of incoming raw materials
- Dyes and volatile colorants
- Adulteration or contamination monitoring
- Peptide mapping
- Detailed hydrocarbon comparisons

You can easily compare the chromatogram of an unknown sample with a reference chromatogram. This offers you a significant advantage by providing quantitation of individual compounds using OpenLab CDS, and a description of the true nature of the sample with OpenLab CDS MatchCompare.

The Agilent OpenLab MatchCompare comparison screen clearly shows differences between reference and sample chromatograms.

## Increase your productivity

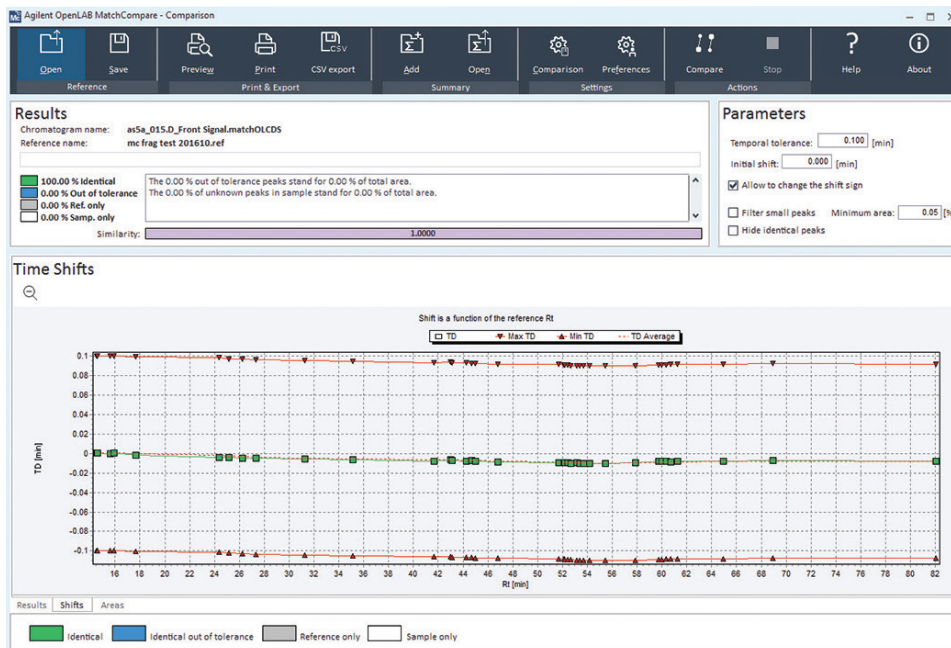
A powerful, intelligent algorithm handles peak distortions, scaling, retention time shifts, and changes in experimental conditions. Using a single reference chromatogram, samples are quickly and easily compared for quality assurance, reducing the need for frequent reference sample reinjections.



Agilent OpenLab MatchCompare graphical comparison permits quick screening of the overall chromatogram match, and allows you to quickly picture differences.

## Automatically match peaks

Graphically referenced matched peaks allow retention time shifts of up to several minutes without changing search fidelity. Missing peaks or impurities are represented by different colors—both onscreen and in the report—eliminating errors and speeding data review.

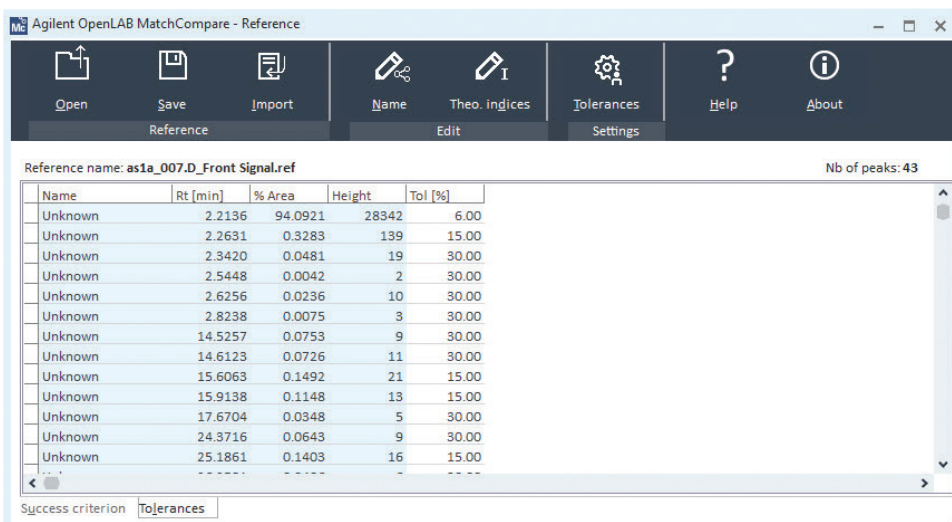


The Agilent OpenLab MatchCompare shift analysis screen lets you easily evaluate chromatographic shifts.



## Quickly monitor product quality

OpenLab CDS MatchCompare identifies user-defined area percent tolerance limits for each peak of the reference chromatogram. Area percent comparisons are reported for each matched peak. These comparisons are checked against user-defined limits, and a color-coded report is created for easy identification of pass/fail peaks.

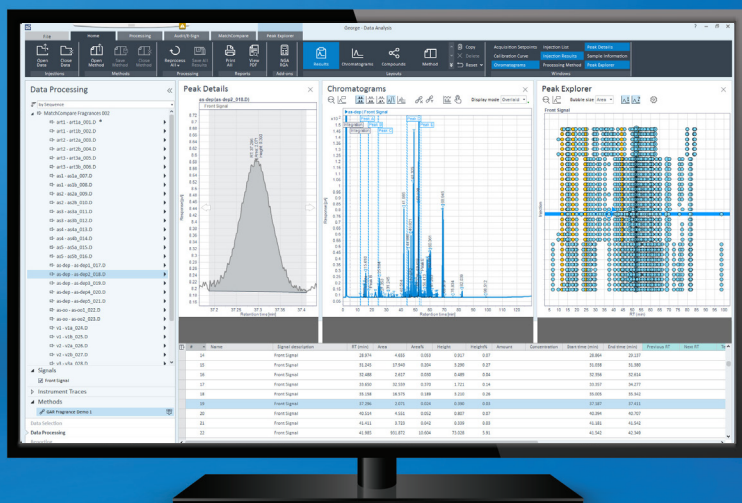


Reference name: as1a\_007.D\_Front Signal.ref Nb of peaks: 43

Name	Rt [min]	% Area	Height	Tol [%]
Unknown	2.2136	94.0921	28342	6.00
Unknown	2.2631	0.3283	139	15.00
Unknown	2.3420	0.0481	19	30.00
Unknown	2.5448	0.0042	2	30.00
Unknown	2.6256	0.0236	10	30.00
Unknown	2.8238	0.0075	3	30.00
Unknown	14.5257	0.0753	9	30.00
Unknown	14.6123	0.0726	11	30.00
Unknown	15.6063	0.1492	21	15.00
Unknown	15.9138	0.1148	13	15.00
Unknown	17.6704	0.0348	5	30.00
Unknown	24.3716	0.0643	9	30.00
Unknown	25.1861	0.1403	16	15.00

Success criterion: Tolerances

Reference setup screens in Agilent OpenLab MatchCompare allow you to name peaks and set relative or absolute tolerances for each individual peak.



## Compatibility with OpenLab CDS

OpenLab CDS MatchCompare can be installed and used without OpenLab CDS. Data files that are converted to AIA format can be processed with this software. However, when OpenLab CDS MatchCompare is used within OpenLab CDS, no conversion is required, simplifying the comparison process even further.



## Compatibility with Agilent Data Systems

OpenLab CDS MatchCompare provides both A.01.03.1 **plus** A.01.02 on the same disk, ensuring compatibility with the widest range of OpenLab CDS editions and versions.

Platform	OpenLab CDS 2.0 and greater	OpenLab CDS ChemStation Edition	OpenLab CDS EZChrom Edition	ChemStation rev. B	EZChrom Elite	MS Software, GC/MSD ChemStation, MassHunter
OpenLab CDS MatchCompare A.01.02	Not Supported	C.01.03 to C.01.05 Supported	A.04.04 and A.04.05 Supported	B.04.03 Supported	Not Supported	Not Supported
OpenLab CDS MatchCompare A.01.03.1	2.0 to 2.3 Supported	C.01.06 to C.01.08 Supported	A.04.06 to A.04.08 Supported	Not Supported	Not Supported	Not Supported

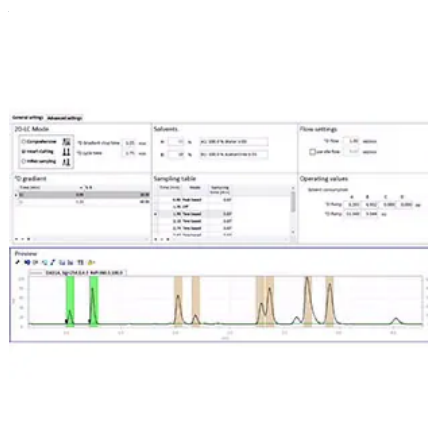
## Ordering information

Part number	Product description	Ordering notes
M8350AA	OpenLab CDS MatchCompare	See compatibility matrix for supported OpenLab CDS versions
M8351AA	OpenLab CDS MatchCompare Upgrade	If you have previously bought Galaxie MatchCompare or OpenLab CDS MatchCompare

# 2D-LC Software

As a part of Agilent InfinityLab 2D-LC Solutions, this software allows you to run 2D-LC measurements for heart-cutting including high-resolution sampling or comprehensive 2D-LC. 2D-LC helps you increase resolution for coeluting compounds, or complex samples or sample matrices.

This software makes 2D-LC easy to use: start with your 1D separation and increase resolution by choosing spots of interest for increased resolution or by re-analyzing your complete sample with different separation conditions in a single run. Analyze multidimensional data qualitatively or quantitatively - easily yet powerfully. Use 2D-LC/MS data for the most extensive information about your samples.



## Features

- Set up 2D-LC methods with a few mouse clicks using a graphical 2D-LC preview. Optionally start with a previously acquired 1D chromatogram, select spots or ranges of interest, and draw a 2D gradient
- Analyze 2D-LC data by simple navigation through first- and linked second-dimension chromatograms. Get all the information you need from your sample as qualitative results including spectral data or reproducible quantitative results
- Agilent 2D-LC instrument control is fully automated and eliminates the need for tedious manual valve programming. Separation in the first and second dimension are completely independent by using Agilent multiple heart-cutting valves for highest storage capacity and fast and parallel analysis
- Shifted gradients, which can be edited graphically or numerically, maximize the available 2D separation space for highest peak capacity and fastest analysis
- Use time-based peak parking for known samples and peak-based parking for unknown samples or in case of variable first dimension retention times
- Use dedicated flush gradients for fast analysis and minimum carryover
- Use Agilent active solvent modulation in your methods for improving to improve second dimension resolution and sensitivity by diluting strong first dimension solvents
- Report your two-dimensional data
- Get GC Image LC x LC Edition Software for UV and single quadrupole or (Q)-TOF and QQQ detection from Agilent. Visualize your 2D data and use highly sophisticated data analysis for comprehensive 2D-LC data including qualitative and quantitative results and statistical analysis
- Get dedicated 2D-LC software training and services for highest productivity in your lab

# Automated Purification Software

Automated Purification Software facilitates automated gradient transfer and scale-up from analytical to preparative-scale methods. Cover the full purification workflow of analytical scouting runs, target compound identification, gradient scale-up, purification runs, and purification data analysis with this easy-to-use software add-on for Agilent OpenLab CDS ChemStation edition.

Automated Purification Software calculates focused purification gradients based on scientific algorithms for each target compound individually on-the-fly, providing a virtually unlimited pool of purification methods for compound separation. Upgrade your purification system to full automation by simply adding a single quadrupole mass selective detector for target compound identification.



## Features

- Automated scale-up from analytical to preparative conditions based on scientific algorithms eliminates the need for time-consuming method development sessions
- Single software for analytical to preparative upscaling workflows shows all the relevant data at a glance from analytical results to collected fractions
- Tailored focused gradient generation on-the-fly offers ideal conditions for purification of each target compound
- Minimum of single analytical and preparative base methods decreases the effort required for method maintenance
- Calculation of virtually unlimited purification gradients offers optimum purity for each target compound
- Automated gradient runtime optimization increases daily sample throughput and decreases solvent consumption
- Two levels of operation for expert and operator users allow easy entry for lab staff into purification workflows and minimize training time
- Flow rate optimization during scale-up from analytical to preparative gradients offers highest purification gradient performance
- Support of both UV and mass-based purification systems for seamless integration into any purification lab

# Buffer Advisor Software

Buffer Advisor software is an independent utility software to simplify ion-exchange chromatography workflows and to support design of experiments (DoE).

Buffer Advisor software provides a fast and easy way to create pH and salt gradients. It eliminates the tedious and error-prone method development steps of buffer preparation, buffer blending, and pH scouting, thus significantly reducing the time required for buffer preparation.

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## | Features

- Calculates pump timetables for ion-exchange chromatography, providing a fast and simple way to create salt and pH gradients
  - Facilitates dynamic mixing of solvents from four stock solutions, simplifying your bio-analysis workflow and significantly reducing the time required for buffer preparation
  - Suggests the most suitable stock solutions and provides recipes, reducing error-prone tasks
  - Provides the option to include user-defined buffers for even more flexibility
-

Application Specific Software

# GPC/SEC Software

Agilent offers the most comprehensive portfolio of high-quality solutions for gel permeation and size exclusion chromatography. Agilent GPC/SEC software provides all the functionality required for conventional and advanced analysis within one simple yet powerful package. The software can be easily upgraded to support light scattering and viscometry detectors to complete the ultimate powerful tool for polymer characterization.



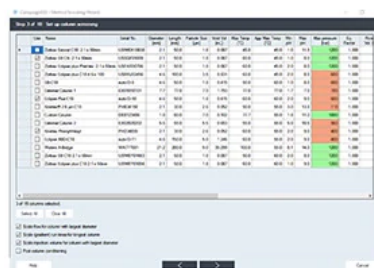
## Features

- Ease-of-use workflow provides the fastest, easiest way to characterize even the most complex polymers with everything required for GPC/SEC analyses in a single package
- Highly customizable user interface allows you to define the look and feel of the software according to your requirements
- Single solution lets you control the system, collect data, calculate results, and comprehensively report the data
- Instrument control incorporates a common platform for a wide variety of instrumentation
- Upgrade and evolve by adding the multi-detector upgrade and perform advanced light scattering and viscometry calculations without altering the user interaction
- Comprehensive data reviewer enables quick and easy visual comparison of multiple sample data
- GPC/SEC software controls the 1260 Infinity II GPC/SEC system, the 1260 Infinity Multi-Detector GPC/SEC system, the 1260 Infinity II High Temperature GPC/SEC system, and the 1290 Infinity II GPC/SEC system

# Method Scouting Wizard

Agilent Method Scouting Wizard is an easy-to-use but highly effective method development software tool for finding optimum LC separation conditions with less effort. This method scouting add-on for Agilent OpenLab CDs ChemStation Edition can significantly reduce time spent on manual scanning of different LC parameters such as mobile phases and columns.

Within minutes, Method Scouting Wizard creates an LC sequence from user-selected parameters, automatically including flushing and equilibration runs. Method Scouting Wizard also helps filter the achieved results based on user criteria to present the most suitable methods for comparison.



Method Scouting Wizard – Column selection

## Features

- Automate your method scouting workflow - reduce time for finding optimum separation conditions
- Easy and intuitive set-up of personalized screening campaigns - suitable tool also for beginners in LC method development
- Automated sequence creation including flush, transition and equilibration runs - avoid tedious and error-prone manual set-up of complex scouting campaigns
- Calculates optimized sequence run time and solvent consumption - save time and money
- Full support of intelligent system emulation technology (ISET) - allows efficient method transfer
- Review and filter the results - Easy Method Filter provides power to find optimum conditions from all scouting runs at a glance

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