Thermo Scientific Dionex Chromeleon 7 Chromatography Data System

Intelligent LC: Advanced Control for Thermo Scientific LC Systems

Product Spotlight

Thermo Scientiific™ Dionex™ Chromeleon™ 7.2 Chromatography Data System (CDS) software is the recommended CDS for control of Thermo Scientific LC instruments offering unique, smart features that deliver maximum ease of use, reliability, and performance-we call this Intelligent LC.

Thermo Scientific™ Vanquish™ System

Thermo Scientific™ Dionex™ UltiMate 3000 System

## Intelligent LC - Ease of Use

Intuitive graphical control with ePanels

ePanels provide a clear visual of the module status a with easy access to productivity controls. They also allow switching quickly between different views making this an ideal system for new and advanced users.

They give immediate visualization and direct control of the most important and commonly used parameters which are conveniently grouped together. Advanced commands are easily accessible through via clearly labeled buttons.

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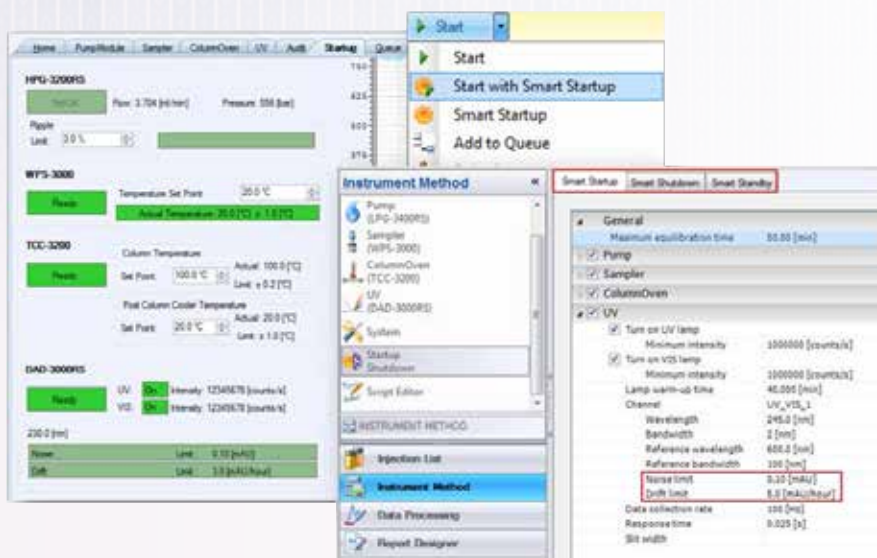
## Intelligent LC – Reliability

Smart Startup, Standby and Shutdown

Smart Startup initializes and equilibrates your instrument with the correct chromatographic conditions before the first injection begins, for safe, automated and unattended system startup.

Smart Standby automatically sets a low flow and can reduce the temperature of the modules and turn lamps off if needed.

Smart Shutdown safely shuts the system down. It can switch off the lamps, pump, and temperature controlled devices, as well as define a solvent gradient before the flow is switched off helping to prevent common user errors.

Smart Startup, Standby, and Shutdown can be easily set in the Queue for automatic execution.
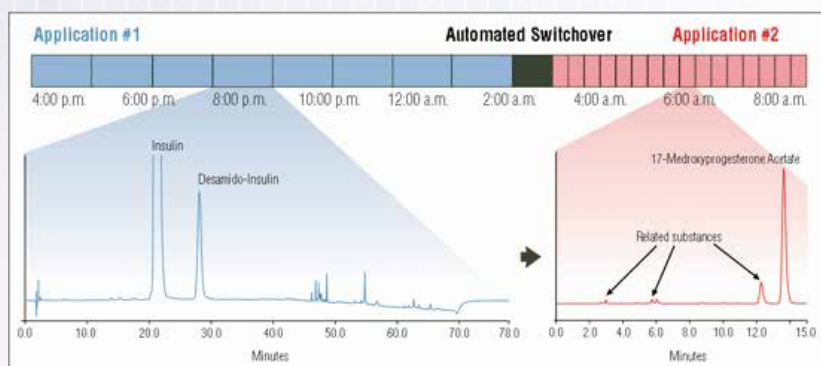
Intelligent LC - Productivity

Automated application switching

Smart Startup can be used to facilitate switching the instrument to a different application at the end of the sequence which maximizes the instrument utilization and uptime.
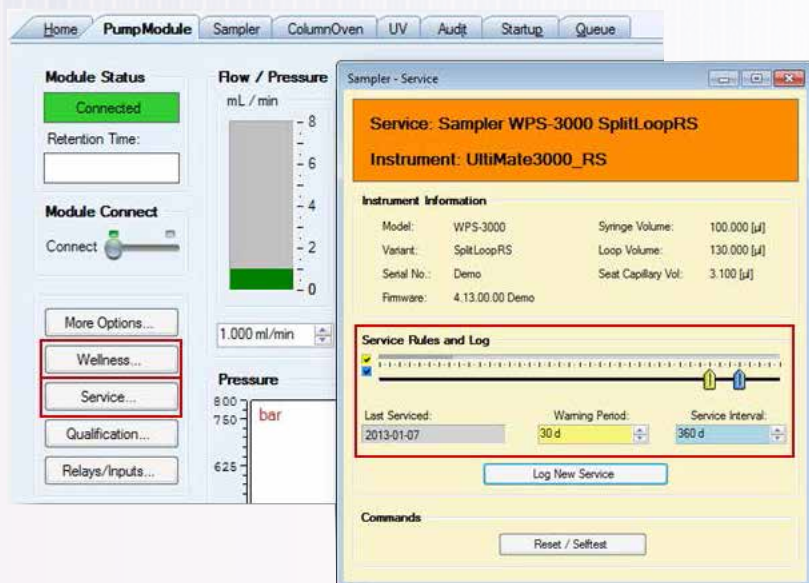
Smart Startup, Standby and Shutdown

Automated Application Switching

Predictive Performance

Qualification Status Monitoring

Predictive performance

Predictive performance monitors for service and wellness are available through each device's ePanel.

Each Dionex UltiMate 3000 module has several counters to monitor the system performance. It's possible to set the following:

• Service interval and warning period

• Wear-part limit and warning limit

The wear-part wellness limits are predefined by Thermo Scientific engineers, and default values regularly updated based on field input.

The performance data is stored in the module not the software, ensuring data is recorded and maintained at all times even if module is moved or exchanged reinforcing compliance.
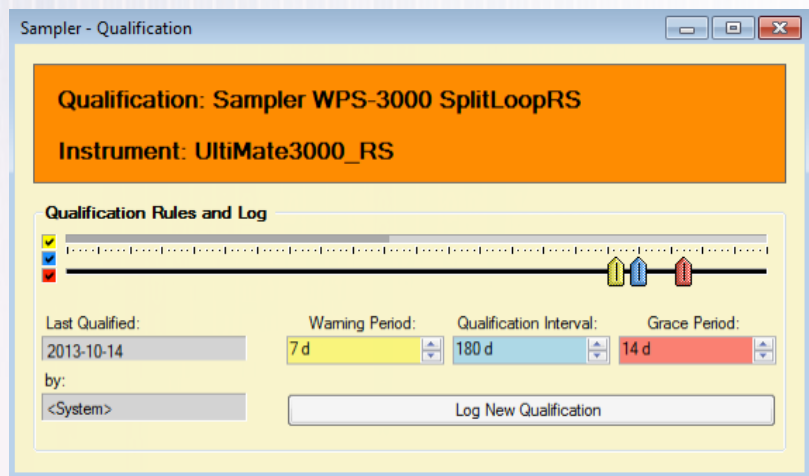

Qualification Status Monitoring

The qualification monitor tracks the qualification status of each module with a definable qualification interval. The instrument will notify the user of an impending qualification, allowing the user to effectively schedule the workload and improve instrument utilization.

This also prevents users from working with a system that is out of qualification, thereby reinforcing regulatory compliance.

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RT RSD = 0.21% without synchronization

RT RSD = 0.07% with synchronization

Factor 3 improvement
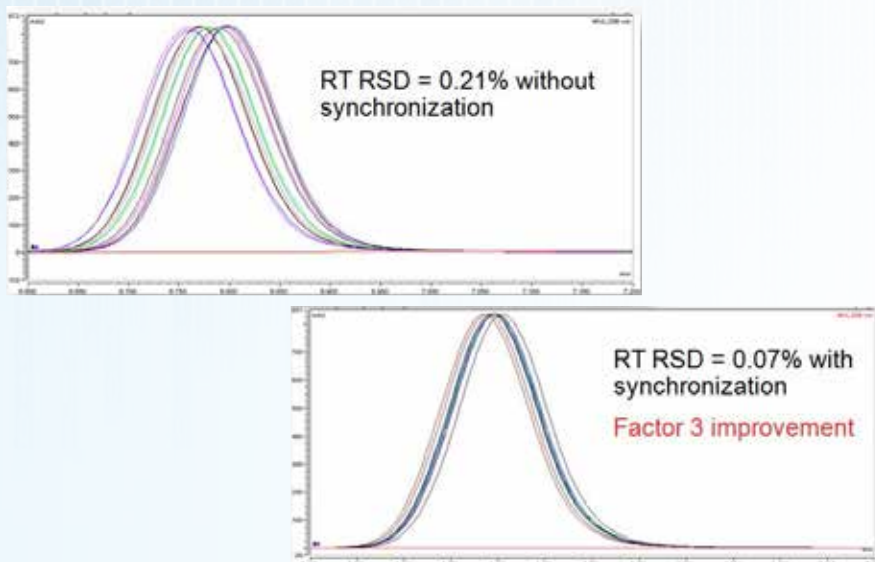
Intelligent LC – Performance

Injection synchronization

For low pressure gradient (LPG) pumps, retention time reproducibility can be compromised when running gradient elutions. For the Dionex UltiMate 3000 LPG pumps, the injection is synchronized with a consistent piston position resulting in more reliable retention times when running gradients.
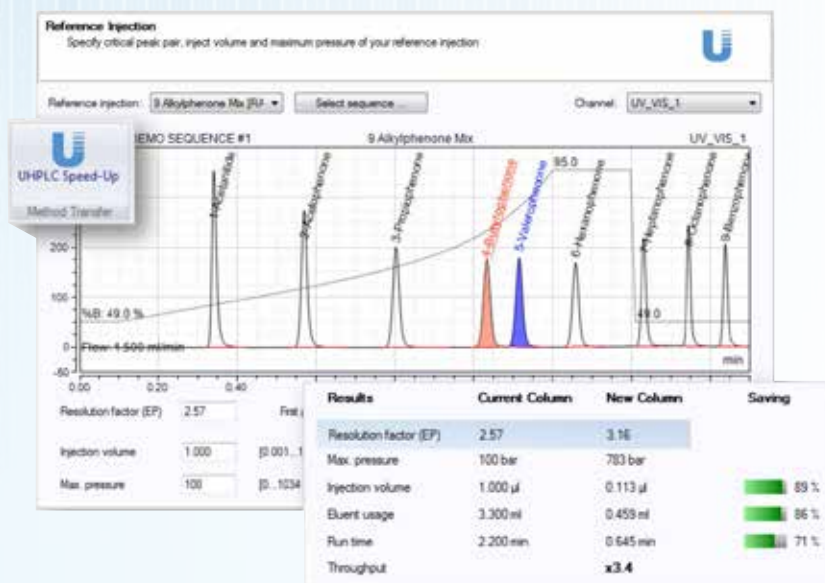
UHPLC Method Speed-Up Wizard

The UHPLC speed-up wizard enables method transfer from regular HPLC to UHPLC instruments.

It provides the required settings to adapt parameters, such as flow rate, injection volume, pressure limits, or resolution factor to a new column's characteristics.

In addition, the wizard checks the resultant baseline resolution, warns the user to check system/column pressure limits and calculates savings of eluent, analysis time, and sample

For more information visit thermoscientific.com/Chromeleon

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