

OMNISEC SOFTWARE: v11.10 (PSS0051-10) SOFTWARE UPDATE NOTIFICATION

Introduction

This document details the release of software PSS0051-10: v11.10 of the software for the OMNISEC system. It covers software issues fixed and new features introduced. This information is required to perform a risk analysis to determine if the software should be installed. In this risk analysis the benefits of the new features provided and resolved software issues must be weighed against the risk of new issues that may be introduced to vital areas of the software or possible changes to the results of future analysis. Installation instructions are provided.

Installation

It is assumed that you have authority to install or update software within your facility. It is also assumed that you have Administrator rights for the system upon which the software is installed, as this is a requirement of the installation process. If you do not have this authority please consult with your I.T. support department before proceeding.

Minimum System Requirements

Intel Core i7 processor, 4 GB RAM, 500 GB free hard disk space, 1600 x 900 screen resolution running in 16 bit color mode, CD-ROM drive, 1 free USB port, Windows 7 or 10 64bit Professional operating system.

Recommended System Requirements

The recommended computer system requirements for running this software are highlighted in table 1 below.

Table 1: Recommended system requirements for the OMNISEC software.

Feature	Specification
Processor Type	Intel Core i7 processor (Quad Core HT, 3.1 GHz Turbo, with HD Graphics),
Memory	8 GB RAM
Hard Disk Storage	500 GB free hard disk space,
Additional Storage Media	CD-ROM drive,
Display Resolution	1920 x 1080 full HD screen resolution running in 16 bit color mode,
Connectivity	1 free USB port,
Operating System	Windows 7 or 10 64 bit Professional operating system.

Supported operating systems

OMNISEC software v11 is compatible with Windows 7 or 10. Only 64 bit Professional versions are supported. Windows XP, Windows Vista, and Windows 8 are not supported.

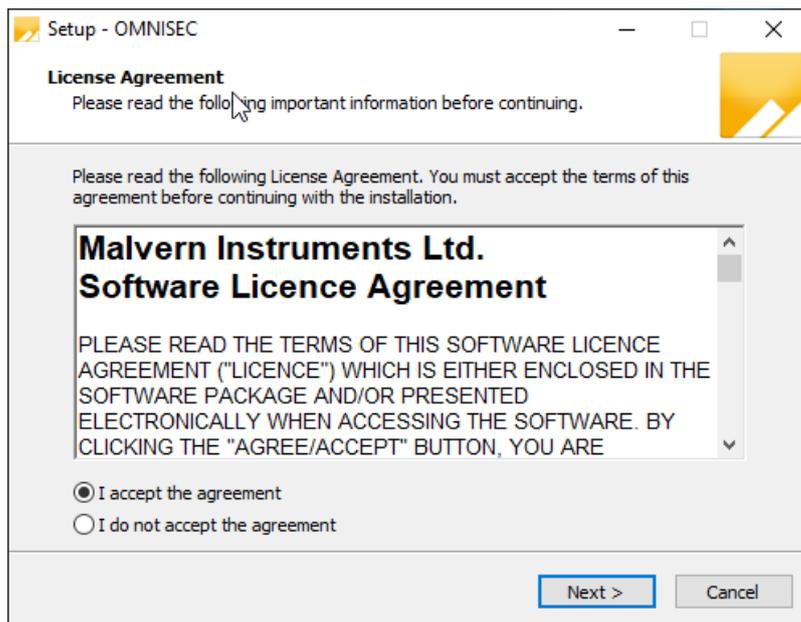
Supported Languages

English

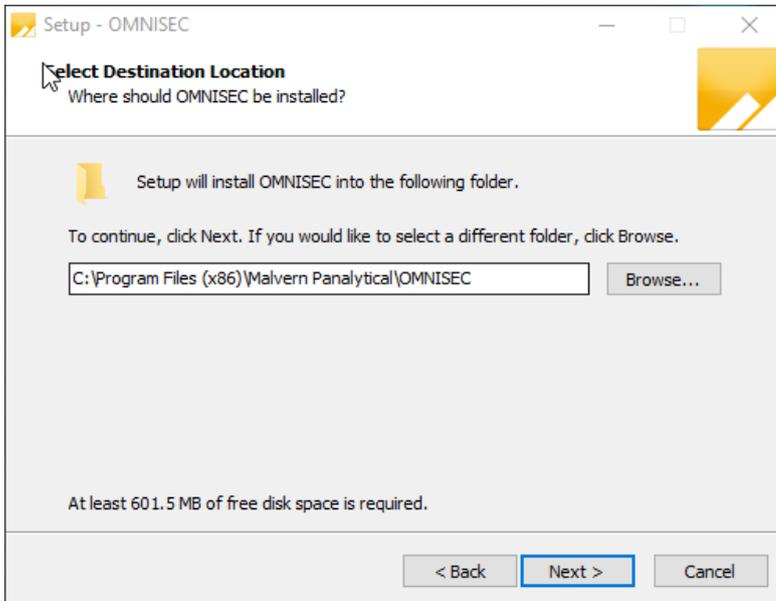
Installation Instructions

Windows 7 or 10 64 bit Professional

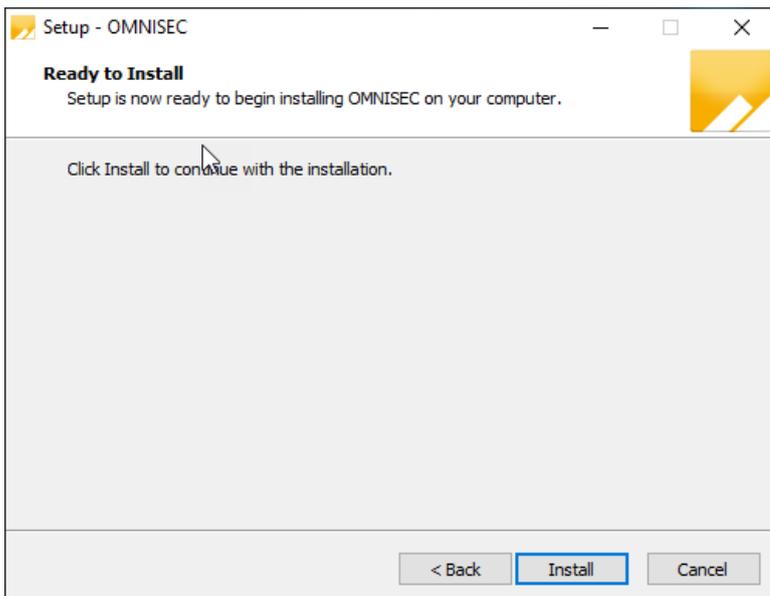
In most cases, OMNISEC should install automatically when the CD is inserted in the drive. If it doesn't, the user can double-click on the installer file, OMNISEC1110.exe, to begin the installation.



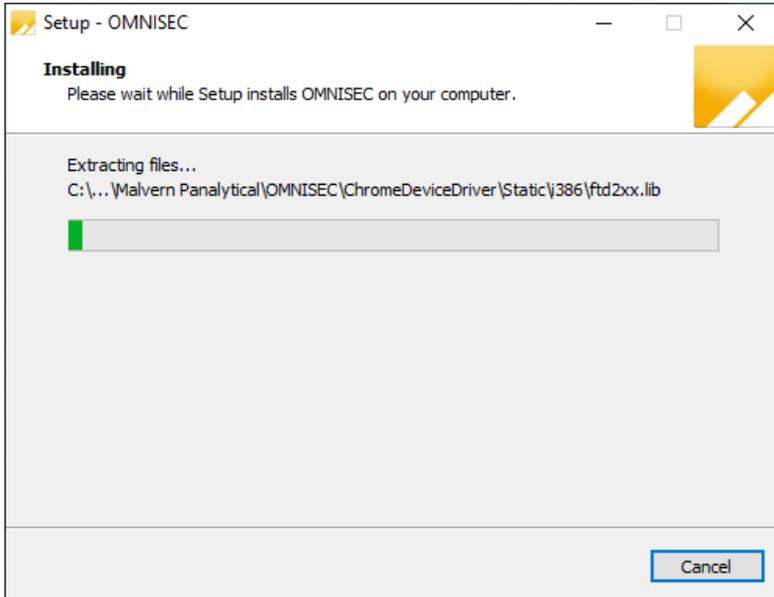
When the license agreement window appears, if you accept the agreement, select **I accept the agreement** and press next. You can select cancel if you would like to stop the setup and continue another time.



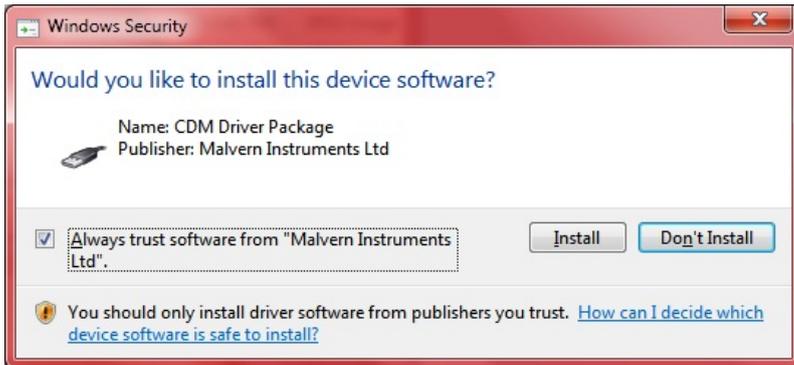
Select the destination location for OMNISEC to install. It is recommended that this remains the default path. Select Next to process.



Once you have followed all of the instructions and clicked "Install", the software will begin the installation process.



If this is the first time OMNISEC v11 is being installed, it will install a 2014 SQL Server instance. This process may take 10 to 20 minutes to complete.



During the installation, a Windows Security window may appear asking if you would like to install a device. Select "Install" to install the device.



The last section in the Setup window will inform you that the computer needs to be restarted to complete the setup. Once the computer has been fully restarted, OMNISEC v11 will be ready to use.

Connecting the OMNISEC to a PC

With the software installed, the instrument should be connected via the USB port, and the system switched on. If present, turn on OMNISEC RESOLVE first and wait 30 seconds for it to complete its startup. Next, turn on OMNISEC REVEAL and wait 1 minute to allow it to complete its startup and connect to OMNISEC RESOLVE. When the two instruments are connected, the light bars on both instruments should be green.

If this is the first time connecting the instrument to the PC, there will be a message that appears saying "Installing device driver software". The names used to identify the drivers will be "CMULx25", "CHROME TAU A" and "CHROME TAU B". Allow the installation to proceed and do not disconnect the instrument from the PC during this process. Once the drivers have been installed, Windows will indicate that they are ready to use.

Updating the OMNISEC REVEAL firmware

The first time you launch OMNISEC v11 with an OMNISEC REVEAL connected, you may be prompted to install a new version of the instrument firmware.



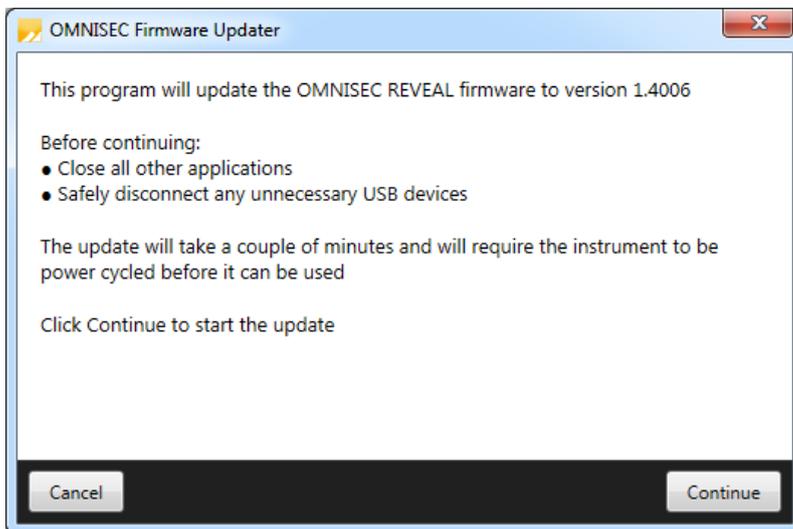
Updating the firmware improves system reliability and compatibility with the version of OMNISEC v11 you have installed on your computer. The update process takes up to 10 minutes and the instrument will need to be power cycled after the update is complete.

Click **OK** to close the OMNISEC application. After a few seconds the OMNISEC Firmware Updater program should automatically launch.

Note:

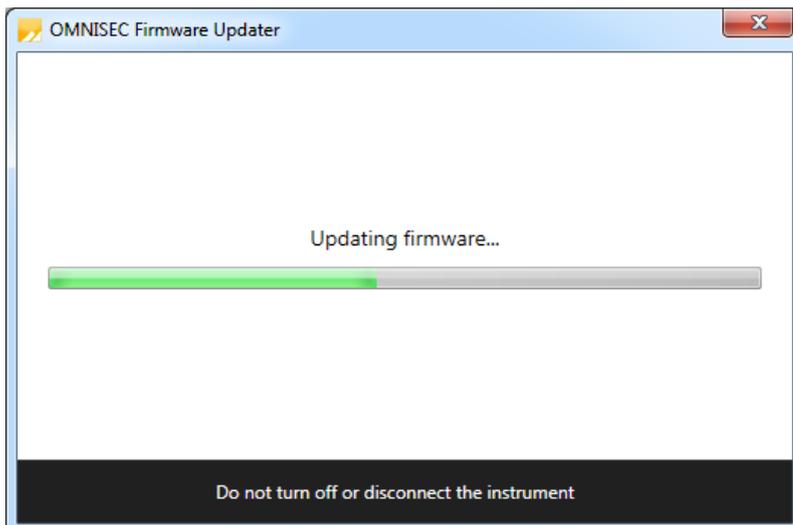


If the OMNISEC Firmware Updater fails to open, or if the updater says it could not detect the instrument, disconnect the instrument, relaunch OMNISEC V11 and reconnect the instrument. You should receive the update prompt to try again.



When the OMNISEC Firmware Updater launches, you should carefully read the information presented to you before continuing.

Click **Continue** to start the update process.



The update process takes several minutes. It is recommended that you do not do anything else on your computer during the update.

After the firmware update has completed, you will be prompted to power cycle the instrument. Once the power up cycle has completed and you see the green lights on the front of RESOLVE and REVEAL click **Exit** and relaunch OMNISEC v11.



Note:

If the update process fails, you don't see two green lights on the instrument or you are still being prompted to update the firmware, try power cycling the instrument and restarting OMNISEC V11 again.

Uninstall Procedure

The software can be uninstalled using the 'Programs and Features' section of the Windows 7 'Control Panel' or the 'Apps' section of Windows 10 'Settings'.

New Features

Table 2: new features implemented in OMNISEC 11.10

Reference	Issue	Comment
84981, 84982, 100548, 100549, 100550	New report designer functionality introduced. Distribution, Derived and Overlay plots added to report designer.	
108807	Allow copy/export from chart widgets	
85914	User control of temperature tolerance alarms.	

Fixed issues

The main issues fixed in this release of the software are listed in Table 3.

Table 3: Bug fixes implemented in OMNISEC 11.10

Reference	Issue	Comment
69481	'Printing' reports to PDF uses wrong default filename [Preexisting]	
92900	Investigate - Extrapolation may fail on good data	
95426	When user selects "get selection" the application crashes	
98235	Transducer over pressure protection pop-up displayed as soon as I open the application	
100556	Report designer - molecular weight units	
103018	Locking Signature 'Lock' Disappears	
104213	Investigate - Transducer over pressure protection not functioning correctly - becoming disabled incorrectly.	Update of firmware is required for this fix to be implemented.

104346	Application crashes when selecting 'No' to export before delete	
105587	Installer: Installer doesn't delete start menu links or update the start menu application name	
107349	Experiment settings pane values are not being used when no template is selected	
107908	Database upgrade V31 to V33 can fail	
108226	Comma-separate thousands in numbers in Reports	
108318	Prompts to save reports when the user doesn't have the save permission	
108604	Calculation Method MALS settings are being corrupted	
108611	Reports are removed from the selected list if edited and not saved when prompted	
108703	Audit - Skip missing vials error not recorded in Audit trail	
108990	more decimal place adjustments - dn/dc IV, Mw/Mn, MH parameters	
109348	Remove "and returning instrument to previous settings" from error if setup method fails	
109601	Fixup calculation methods with null MALS parameter on import/export	
109602	Stop loading all calculation methods when opening calculation method editor	
109704	software slow when just REVEAL connected	
109846	M-Ha and Mw/Mn display at 2dp instead of 3dp in Results report widget	
110558	Build fails with .01 version number	
110779	Injection Audit Trails Created Pre 11.x Not Displaying After 11.x Upgrade	
110909	Raw Data Chart Saving - Cannot save a report with a raw data chart in it	
111688	Report Switching Results in Report Display Issues	
111729	Record view injection (de)selection not updating chart data	
111758	"Saving" a report and "saving as" the same report cause the reports to be given the same ID	
111803	Results headers not showing correctly when showing duplicate sample and injection names	

111908	MALS calculation bug	
111931	Reports - Cannot edit report due to file permissions	
111947	units on derived data view	
111948	Removing Reports When Editing Displays Wrong Report	
111965	Extrapolations alignment issue on derived data plot	
111967	units for autosampler loop volume	
111969	add access control to the File//Options menu	
112235	Bookmarks - malvern .com	
112242	Exporting to older archive versions does not import correctly on software V10.41	
112259	Dev Software becomes unresponsive after new limit/baseline set using shift and mouse key or +baseline and +limits button	
112881	MALS bug	
112944	Report selector bug	
113056	Temperature tolerances are applied during baseline monitor	
113285	Time Remaining does not work	
113438	Crash when closing data after viewing report	
113519	Fix file dialog filters	
113924	Unit tests fail due to (mis)use of program data folder structures	
114217	Log Mw missed off the derived data view for polymer and protein summary	
114272	After upgrade 11.01 to 11.10 with default reports software crashes creating a report	
114332	Limits audit meta data	
114700	Distribution plot - error when multiple analysis selected	
114927	Manual laying of baselines using right click has slowed significantly. ~ 30 seconds	
115417	Duplicate report ID (but not title) causes crash	
115490	[Urgent fix] Export archives can be silently corrupted	

Known Issues

The following software bugs have been discovered within the software, and will be investigated as part of a future release. Please follow the suggested work-around.

Table 4: Known issues in OMNISEC v11.10 software.

Reference	Issue	Workaround
72077	No ability to manually zoom out on the UV Spectrum Map chart	Use the Zoom Back and Full Zoom Out functions in the Ribbon Bar
72866	Find Limits fails where the RI signal is inverted and there is a single negative peak with no positive peaks	Set limits manually
73366	Calculation method not refreshed when save permission is denied through access control file	No workaround
75977	The top of the MALS Fit Order view can be cut off	Resize the view
75978	The MALS fit order slider remains on the Raw data view after switching from a MALS method to a non-MALS method if MALS Model/Fit View window is active	Do not have the MALS Model/Fit View as an active window
75979	Baseline fit order may be incorrect for the number of set baseline points	Delete the baselines and reset them
75981	Legends in the overlay, distribution and derived data plots display nonsensical Analysis numbers to differentiate between multiple selected analysed records	No workaround
76528	Fraction collector triggers on baseline monitor activation	When a baseline monitor is run, turn off the fraction collector.
77659	Injection Volume Tooltip "Default" Validation Shown Instead of Mode-Specific-Validation	No workaround
80723	Full detector configuration/presence is not recorded in the database	No workaround
80765	Derived data plot shows kick in logMw trace in some circumstances	No workaround
80874	Windows 10 Style Fixes	No workaround
82353	Baselines may not appear on the Raw Data chart even though the points are set	Switch to a different record then switch back. If the problem remains, restart the software.
84117	HiDPI display settings can lock up app with an infinite layout loop on Analysis charts	
86583	When a user deletes a sequence the samples associated to the deleted sequence is still displayed in database window	No work around

87304	Copy Graph function produces 'fuzzy' graphs	No workaround. Copy from report designer rather than the analysis screen.
90230	Limit/baseline changes after license expires causes crash	No work around
91107	Axis numbers extend past chromatogram window when highlighting	No Workaround
92608	SQL Server 2014 Express installation fails	Cycle the PC power and restart the installation
93028	A failed migration can break audit trails	No workaround
93246	Deleting a recent sequence does not remove it from the Analyze Data list on the Start Page	No workaround
93281	Performing a Full Zoom Out after turning off Auto-Scaling in acquisition does not refresh the axes properly	No workaround
93283	Default Method does not work on MALS 9	No workaround
93497	Error when last MALS point deselected in Model/Fit View	Have at least 1 data point selected
94035	Run a new sequence with an existing name	No Workaround
94546	Cannot change solvent in run conditions	No Workaround
96064	User can add unbounded length description in Tools > Database editor dialogs	Limit the length of the database item.
96092	Selecting cancel on a delete pop-up is deleting the field	No Workaround
96589	Migration from V30 to V31 discards vital validation error information	No workaround
96708	Error occurred plotting the selected data	No workaround
97099	APC-REVEAL calibration shifts viscometer signal when using BSA	Use a monodisperse sample for calibration.
97446	Calculation Methods utility browser is not being disabled	No Workaround
98007	Delete does not work correctly on Instrument/experiment Setup Methods	The number of times the template is edited is the number of times the user have to select delete to get rid of the template.
98011	Instrument setup browser does not support MPA values	No Workaround
98021	UV lamp status is displayed incorrectly in Instrument setup browser	No Workaround
98383	Fix fatal out of memory exception	No Workaround
98433	Minimum pressure alarm triggers during pump prime	Set minimum pressure at 0 during prime.
98614	Right-click baseline point counts as baseline change	No Workaround

99104	User must select set on instrument controls to get the temperatures value	No Workaround
99144	Detector oven set point at 0	No Workaround
99195	Finding Limits and Baseline Dialog locking Audit Validation	No Workaround
99232	Autosampler loop volume setting does not take effect without restarting the software	Restart the software when volume changes are made.
99380	Modifying the angles used in a MALS method does not update the Method name.	No Workaround
99381	Method in record view drop down menu and in calculation method do not match	No Workaround
99383	Changing the MALS model fit does not update the MALS data report automatically	No Workaround
99384	At the end of a sequence MALS green laser on button does not turn off.	No Workaround
99385	Load Axis not functioning	No Workaround
99670	Light scattering laser turns off when sequence paused for over 1 hour	Don't pause sequences for longer than 1 hour.
99677	Software fatal error when standard parameters adjusted	No Workaround
99730	Distribution plot - multiple axis appear	No Workaround
99766	Software crashes if grid column settings file(s) missing	No Workaround
99980	RALS/LALS channels not used correctly in an analysis	No Workaround
100137	New schedule doesn't stop when errors are raised	No Workaround
100533	When instrument method is applied update Target temperatures	No Workaround
100564	Portion of OMNISEC name cut off	No Workaround
100746	Data from baseline monitor acquisition not saved	No Workaround
101098	Not all experiment settings method properties are reportable	No Workaround
101552	Cant adjust sample concentration lower that 0.0xxxxx	No Workaround
101648	Calculation Method - detectors 'active' checkbox gets muddled when sorting	Don't re-sort the method detectors
102002	Baseline point markers don't show the correct x and y values	No Workaround
102318	Injection Volume set to 100 when stopping Acquisition	No Workaround
102324	Missing audit trails created on database migration	No Workaround
102636	Alarms are not being caught/handled	No Workaround

102999	Non-fatal exception when aborting sequence	No Workaround
103398	Failure to save when analyzing an injection stopped by safety event	No Workaround
103508	derived data view axis changes cause a crash	No Workaround
103588	Signature context menu items do not always respect permissions	No Workaround
104085	Can add sample to a completed sequence without restarting	No Workaround
104258	search in report item selector does not work	Manually select the items that you want in a report.
104285	Print preview does not update when analysis changes	No Workaround
104387	Gridlines re-appear after being disabled.	No Workaround
105916	Copying raw data chart from reports gives black boarder	No Workaround
106118	Under pressure alarm not reached in instrument setup template	No Workaround
106891	User.config file can be corrupted during software shutdown	No Workaround
107573	Data Selector - 'From - to' Date is not fetching data correctly	No Workaround
107907	Access Denied Error when upgrading existing installation	Rename the Audit Trails folder so it is recreated. Audit trails can then be moved back into the new folder post-installation before starting the software.
108236	Instrument method - default temperatures	No Workaround
108237	Instrument methods - flow rate changes should be to 0.1	No Workaround
108239	Report designer - MALS channels collapse into a sub heading	No Workaround
108252	Experiment Templates - Not displaying the correct template on close and reopen of client	No Workaround
108289	y-axis in raw data report widget - display with no dp	No Workaround
108290	top of the peaks cut off in raw data report widget	No Workaround
108291	Raw data view - show processed data - offset and BB taken into account	No Workaround
108619	Import errors can effectively hang the software	No Workaround
108620	axes flashing and non-responsive	No Workaround
109600	Setup Methods: Purge time limit value not being set	No Workaround
109689	dA/dc units in the methods are incorrect	No Workaround
109770	A message box title text is in the wrong resources	No Workaround

109771	A safety event during setup method skips setup actions	No Workaround
109774	Flow rate setup method action doesn't stop on simulated pressure safety event	No Workaround
110709	User prompted to install into the correct folder on upgrade	No Workaround
110910	Investigate - Error when moving limits with multiple analysis selected	No Workaround
111888	Unsaved New Reports can't be Printed or Previewed via Analysis Tab Print/Preview Option	Save the report.
111889	New Reports can't be Printed or Previewed via File>Print/Preview Option	Select another tab and then return to the new report. Print/preview will work.
111949	all report charts show the wrong axis numbers	No Workaround
112410	Notes added in the Sequence have no max character	No Workaround
112820	make column labels consistent in reports	No Workaround
112881	MALS bug	No Workaround
112889	table alignment	No Workaround
112912	Strange extrapolations on the derived plots	No Workaround
112913	Flow rate decimal places	No Workaround
113056	Temperature tolerances are applied during baseline monitor	Set a wide temperature tolerance or disable the alarms
113313	pump does not go to standby flow rate when temperature tolerance alarm tripped	No Workaround
113318	Calculation Method - Save and close validation	No Workaround
113427	Temperature alarms intermittent	No Workaround
113451	Abandon Changes Error and Fatal Exception	No Workaround
114114	Inconsistent capitalization in Calculation Method Editor page list	No Workaround
114133	PumpPressureBelowLowerToleranceTest Failed	No Workaround
114255	Environment tolerance alarm text displayed for non tolerance alarms	No Workaround
114410	"Set at runtime" does not work for delays	No Workaround
114545	Overlay and export goes "Breaky" when use a certain set of data in Build 20191008.8	No Workaround
115003	UV MALS error	No Workaround
115017	Methods generation value incorrect	No Workaround

115416	User authentication loop	No Workaround
115443	Export archives can be silently corrupted	No Workaround
115499	Signed on/by columns in Record View do not show signatures	Refer to the Signature widget
115620	Polymer reports crash	No Workaround
115779	First enabled Electronic Signatures can cause an exception	No Workaround
115808	Exporting the currently selected file throws up an Exception Error	No Workaround
115865	Report with same name cancelled causes the selector to incorrectly display	No Workaround

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