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Release Notes

Chromeleon 7 Chromatography Data System

Software Version 7.3 MUb • July 2021

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Table of Contents

1	MAINTENANCE UPDATES	4
1.1	RELEASE NOTES.....	4
1.2	OTHER DOCUMENTATION	4
1.4	INSTALLATION	4
2	WHAT'S NEW IN CHROMELEON 7.3 MUB	5
2.1	IQ/OQ/PQ	5
3	RESOLVED ISSUES	6
4	LIMITATIONS AND KNOWN ISSUES	8
4.1	LIMITATIONS WITH THERMO SCIENTIFIC INSTRUMENTS	8
4.2	LIMITATIONS WITH WATERS DRIVER PACK.....	12
4.3	LIMITATIONS WITH AGILENT ICF.....	13
4.4	LIMITATIONS WITH OTHER THIRD-PARTY INSTRUMENTS.....	14
4.5	LIMITATIONS WITH SETUP.....	15
4.6	OTHER LIMITATIONS	17
5	BACKWARD/FORWARD COMPATIBILITY ISSUES	25
5.1	CHROMELEON ENTERPRISE COMPATIBILITY BETWEEN CHROMELEON VERSIONS	25

1 Maintenance Updates

Maintenance Updates (MU) contain the setup package with the files relating to Maintenance Updates only. Thus, with a Maintenance Update, it is necessary to have a full version of Thermo Scientific™ Chromeleon™.

1.1 Release Notes

These Release Notes list the new features and improvements of the current Maintenance Update release only.

For information on extensions and enhancements in previous Chromeleon releases, please refer to the Release Notes of the respective Chromeleon release.

1.2 Other Documentation

The following documents have been updated with this release:

- List of Supported Instruments - Chromeleon 7.3 MUb
- Online Help (distributed with this release)
- Chromeleon 7.3 MUb Supported Operating Systems
- Installation Guide – Chromeleon 7.3 MUb
- Functional Specification – Chromeleon 7.3 MUb

1.4 Installation

Before you install this Maintenance Update, verify that Chromeleon 7.3 is installed using **Installation Guide – Chromeleon 7.3.pdf**. To install this Maintenance Update, run the following program from the distribution media:

Setup.exe

2 What's New in Chromeleon 7.3 MUb

Chromeleon 7.3 MUb implements several new features. This section provides a short overview of all new features; for more details, refer to the Online Help.

2.1 IQ/OQ/PQ

2.1.1 HPLC OQ/PQ

New HPLC OQ/PQ tools are available in Chromeleon CDS. HPLC OQ/PQ version 9.7 addresses the following incidents:

- HPLC PQ: Vanquish Quaternary Pumps: Gradient Step Accuracy test report: Acceptance limit mismatch compared to the documentation [189904]
- HPLC-OQ/PQ: Shared Dual VAS: Displayed the used autosampler unit in the report [201864]
- HPLC-OQ/PQ: VH-P10-A pump: Improve robustness of the gradient accuracy test [201865]

For details, please refer to the document \Documents\HPLC OQ PQ V.9.7 - Release Notes.pdf on the Chromeleon CDS disk.

3 Resolved Issues

This chapter describes the issues that have been resolved with the release of Chromeleon 7.3 MUb.

Many trivial and minor issues have been resolved but are not mentioned here. If you require information about the status of an issue observed in a Chromeleon 7 release, but which is not listed here, please contact your local Thermo Fisher Scientific representative for more information.

The numbers in the first column of the table below refer to the Thermo Fisher Scientific tracking IDs.

ID	Description
125373	If the injection list of a running sequence was edited and saved, then it could happen that the Instrument Controller would start an already finished injection for the second time. This led e.g. to a second inject command for this injection and later to a wrong injection status "Interrupted".
125936	MS Data Acquisition: If an MS instrument method did not have any scan events at run time 0, it could happen that the MS would repeatedly disconnect and reconnect during a run.
130592 141862	Licensing: In large enterprise deployments, it could happen that clients would report that the NFP license period had been exceeded and would terminate, even though the client was connected to the license server. The license server log file would report several 'heartbeat'-related error messages.
138596	Vanquish Pump: For a Vanquish Core instrument with a Vanquish Flex pump, when trying to start a sequence, the Ready Check would show a warning "Basic Tightness Test has been aborted". This issue is addressed if firmware version 2.03 for the Vanquish pump is installed.
162992	ISQ-EC/EM Tuning: When User Mode (logins and privileges) was disabled, attempting to perform a manual tune failed with the error: "The command cannot be executed because you do not have the required privilege Execute On-Demand MS Manual Tune/Calibration."
164111	With a TSQ Altis using APCI ionization in a Chromeleon Enterprise environment, sequence interruptions were seen. Sequences were interrupted with an error message: "Configuration mismatch. Please execute InstrumentConfiguration and reconfigure the Mass Spectrometer." The issue is fixed by a small upgrade of the software from Foundation 3.1SP7 to SP7QF1 and TSQ Tune 3.2 to 3.2SP1.
174584	Sequence: A user without the 'Delete Finished or Interrupted Injections' privilege could delete an injection by modifying the information in the injection row and then pressing "Ctrl+Shift+Delete". UV Library: A user without the 'Delete Spectrum' privilege could delete spectra from a User UV Library by pressing "Ctrl+Shift+Delete".
175688, 175243	For the Vanquish Dual Autosampler (VH-A40-A and VF-A40-A) PrepareThisInjection and PrepareNextInjection were not working. The run was aborted with an error message.
178793	Vanquish Core: A method with an IdleVolume assignment in the initialization part of the method and a PrepareNextInjection command after the Inject command would result in the sampling procedure being executed twice. As a consequence, the actual injection volume was twice the specified one. In some instances, the sequence would stop.
190428	Processing Method: When Using a Fixed Chromatogram Subtraction, the "Modify Finished or Interrupted Injections" Privilege Was Required To Enable Fixed Calibration Mode
192723	Shimadzu CBM-20A: Trying to control a Shimadzu CBM-20A HPLC System with a UV detector and a non-UV detector (e.g. a UV and an RI detector) would lead to an access violation.

ID	Description
192726	Vanquish Autosampler: For a method including a PrepareThisInjection command and a user-entered position as parameter for the inject command, the Ready Check would result in an error message "The PrepareThisInjection command must be placed after all assignments to properties affecting the behavior of UDP commands." even if the instrument method did not contain User-Defined Programs (UDP's). This would also happen for Vanquish Dual Autosamplers (VH-A40-A and VF-A40-A), which are not supporting UDP's.
198405	Sequence: A user without the 'Delete Finished or Interrupted Injections" privilege could delete an injection by modifying the information in the injection row and then pressing "AltGr+Delete". UV Library: A user without the 'Delete Spectrum" privilege could delete spectra from a User UV Library by pressing "AltGr+Delete".
198770	Chromeleon OPC Process Analyzer used long alphanumeric and dynamic IDs which would cause re-connection issues with OPC clients. The IDs are now more reader friendly and persist after initial connection.
201982	ISQ-EC/EM: It was possible to execute a Manual Tune from the instrument ePanel without the required user privilege ("Execute On demand MS Manual Tune\Calibration").
204438	ICS-6000: Selection of the PdH reference electrode for the ED in the instrument method wizard would not persist and the dropdown for choosing the reference electrode on the waveform dialog would be inactive and set as an AgCl electrode instead.
204441	ICS-6000: When a suppressor was unplugged and reconnected or when an existing suppressor was replaced with one of the same type, reconfiguration of the instrument would be required.
204446	AS-AP: Configuring an AS-AP with another autosampler on the same instrument would cause runs on the second autosampler to abort and give the following error: Sampler_IC Unexpected exception in broadcast: Please enter a valid number.
204706	Composite Scoring: When scoring mass accuracy, a negative mass accuracy value was always interpreted as 'passed', when in fact the absolute value should have been used for comparison.
204712	Composite Scoring: Peak Apex Alignment would always report a failed result if an isotope was missing for a charge state.
211269	Help: The topic describing the access of Chromeleon 6 data sources in Chromeleon 7 has been extended to clarify that when transferring whole folder structures the history of the folder itself is not copied to the Chromeleon 7. The history of data objects in the folders (sequences, QNT files, etc.) is copied.
211584	Updater Service: Creating an updater package generated the following error message " Select package source is not compatible with automated installation. You can still create a package from this source, but it will need to be installed manually." was displayed.
211592	SDK and Chromeleon XPS: When the Chromeleon 7.3 PA-OPC release was installed, Chromeleon XPS was no longer be able to be started. In addition, custom SDK applications written for Chromeleon 7.3 would no longer work.

4 Limitations and Known Issues

The comprehensive list of limitations and known issues affecting Chromeleon 7.3 are documented in the Chromeleon 7.3 release notes.

New, updated and recently reported known limitations and issues identified during the development of Chromeleon 7.3 MUb are listed below.

4.1 Limitations with Thermo Scientific Instruments

ID	Description
139606, 172750	<p>Vanquish Autosampler: When configuring a Vanquish Autosampler with the option "Support for external rack transfer" enabled (on the "Options" tab) and enabling the charger option (on the "General" tab), after switching from the "General" tab to the "Options" tab, it is no longer possible to uncheck the charger option.</p> <p>Workaround: When enabling the charger (on the "General" tab), confirm the charger option with OK before switching to another tab in the instrument configuration dialog.</p>
142047	<p>MS driver: TSQ Altis: There is no report variable available for the module serial number</p>
162479	<p>Vanquish Driver: For the Vanquish DAD and MWD the wellness properties for the UV/VIS lamp operation time limit and warning are transmitted enlarged by a factor of 4 to the instrument. Example: A setting of UV/VIS lamp operation time limit of 2,500 hours is transmitted to the firmware as 10,000 hours.</p> <p>Workaround: Set the time limit of the UV/VIS lamp operation to the desired value divided by a factor of 4. Example: If you wish to set the time limit of the UV/VIS lamp operation to 2,500 hours, enter a limit of 625 hours.</p>
162902	<p>Vanquish VWD: Turning on the UV or VIS lamp during data acquisition results in an abort error.</p>
162908	<p>Vanquish VWD: The flyover for the limit and warning limit for the UV Lamp Operation (Wellness properties UVLampOperationTime.Limit and UVLampOperationTime.Warning) indicate a range of [1...40000 hours] instead of the appropriate range [Off...40000 hours].</p>
162909	<p>Vanquish Core Diagnostics: If a diagnostic test is aborted immediately, the injection name in the diagnostic data shows a default name "Diagnostic Run" instead of the actual name of the diagnostic test (e.g. Intensity Test, Basic Tightness Test).</p>
163499	<p>In very rare cases the injection status of an injection stays on "Running" and subsequent injections are not started. Proceeding to the next injection requires a restart of the Instrument Controller. Upon restart of the Instrument Controller the status of the injection is changed from "Running" to "Interrupted" (although "Finished" would be appropriate).</p>
164089	<p>GC Drivers: If a TRACE 1300 is shared between two instruments, with DualOperation set to Shared, and two Sequences with instrument methods which have Sharable set to Off are started, Chromeleon keeps the second Sequence at a state of Running while it waits for its turn to start. If you quit this waiting Sequence, it will correctly stop, but the other acquiring Sequence will also stop. This is unexpected behavior.</p>
165965	<p>For instrument methods with very long run times exceeding 35790 minutes (~ 596 hours), setting a new flow ramp results in repeating abort errors: "Cannot set a flow or flow ramp segment: Command was aborted." The ramp time for the UltiMate 3000 and Vanquish pumps is limited to 35790 minutes as a time step for a ramp.</p>

ID	Description
166994	<p>UltiMate 3000 Autosampler: After changing the rack configuration on the ePanel for an UltiMate 3000 Autosampler it is not possible to write a sequence as the new rack configuration is not available.</p> <p>Workaround: In the instrument configuration manager confirm the configuration without making any changes and save it.</p>
167481	<p>Trying to acquire the pump pressure signal for 24 hrs with a high data rate (100 Hz) results in an instrument crash. This was seen with an UltiMate 3000 pump HPG-3400RS. The signal acquired at 100 Hz for 24 hrs results in 8.64 million points. The console memorises these points and increases the size of the respective PointList, which leads to System.OutOfMemoryExceptions in the console. The only way to fix this is to stop the instrument controller and close down Chromeleon.</p>
172736	<p>Vanquish Drivers: In rare circumstances if a transport error occurs with the Vanquish Autosampler (VH-A40-A or VH-A90-A) with the charger, it's not possible to bring the system into an operational stat using the commands "Reset" or "Cleanup". An instrument controller restart is necessary.</p>
172749	<p>The Troubleshooting Guide for the Vanquish Binary Pump VH-P10-A (hardware revision 01) can be found under C:\Program Files (x86)\Thermo\Chromeleon\bin\Trouble shooting Guides</p> <p>English: Man-LC-VQ-PumpH-Operation-DOC4820-4411-EN-1-0 French: Man-LC-VQ-PumpH-Utilisation-DOC4820-4411-FR-1-0 German: Man-LC-VQ-PumpH-Betrieb-DOC4820-4411-DE-1-0</p>
175221	<p>Vanquish Core Autosampler: If the sampler door is opened during the sequence run or the sequence is aborted and a new sequence is started immediately afterwards while a barcode scan is still running, the sequence is interrupted and the sampler keeps waiting for module readiness.</p> <p>Workaround: Update to Vanquish Autosampler Firmware version 2.03 to avoid the sequence from getting stuck in the Wait Ready statement. When stopping a sequence, wait for the restart of the queue until the pending barcode scan in the VAS has finished. If the Vanquish Autosampler door is opened/closed regularly during a queue run, add a time delay between sequences so that the barcode scan is completed before a new sequence start.</p>
175699	<p>TSQ LCMS: If the Serial Number field is manually edited to a Serial Number beginning with a letter, Chromeleon does not accept the input and instead interprets the input as an access key.</p> <p>Workaround: 1) Type the serial number in e.g. Notepad and copy/paste it into the Serial Number field. 2) Edit the Serial Number field in the Foundation software.</p>
181727	<p>Vanquish Core Autosampler: For a sequence with a method including PrepareThisInjection, if the IdleVolume is set to a different value than the one specified in the method before starting the sequence, the first injection is aborted with an error message "An error occurred during the injection preparation; run is aborted."</p>
192721	<p>Vanquish TCC: Preheater Temp Ctrl On does not work in easy mode of the Instrument Method Editor / Wizard.</p> <p>Workaround: Active the advanced mode in the instrument method editor/Wizard and set the temperature control for the pre-heater to the desired value.</p>

ID	Description
195521	<p>GCMS Single Quadrupole instruments (ISQ and ISQ 7000 families) and GCMS Triple Quadrupole instruments (TSQ 8000/9000 families) provide several options (e.g. timed SRM mode) for which the permission to use the option is stored in the flash RAM of the MS hardware. If you purchase the option at the time of the MS instrument purchase, the flash RAM has the option included. If you purchase the option after the MS instrument purchase, Thermo Fisher ships you a small ini file, which you then upload to the MS flash RAM.</p> <p>If a Chromeleon instrument method requires such a GCMS instrument option, but the permission for the GCMS instrument option is not available in the flash RAM of the MS hardware, the Sequence Ready Check and Instrument Audit Trail show an error message. (For example: „Instrument method cannot be run: Timed mode is not allowed under the current license. To enable timed mode acquisitions, please upgrade your software to include time mode.“) This error message is somewhat misleading, as it is the flash RAM of the MS hardware that needs to be updated with the relevant permission, not Chromeleon itself.</p>
198683	<p>Vanquish: An instrument configuration with a large number of modules (e.g. 10 modules) results in an error “The content of System.TotalFluidics cannot be parsed”.</p> <p>Workaround: Remove modules until the issue is resolved from the configuration.</p>
146189, 172755	<p>Vanquish Sampler: The Vanquish Sampler injects a wrong volume if an injection volume exceeding the nominal loop volume (but below the loop volume) is specified.</p>
168804, 169228	<p>Vanquish Autosampler: During a run in which the next injection has the same position as the current run, if the rack configuration is changed to become invalid (e.g., because the rack was turned around), an inappropriate error message is shown or the system continues sampling. Similarly, if the first injection of a sequence to be started has the same position as the one currently set in the driver and the rack configuration for this position is invalid at the time of sequence start, an inappropriate error message is shown or the system continues sampling.</p>
194169	<p>Vanquish Autosampler: If the injection volume is changed between two injections and PrepareNextInjection is used, incorrect injection volumes are used.</p>
205589	<p>Ultimate 3000 WPS: Changes to the tray configuration on the ePanel are not immediately relayed to the sequence wizard. When changing a tray configuration on the ePanel, the tray configuration in the sequence wizard is only updated after making another change to the tray configuration on the ePanel.</p>
205590	<p>Vanquish Dual Pump (DGP): If a Vanquish Dual pump is configured with the option “shared bottle” selected, it should not be possible to set different eluent monitoring properties (%A/%B/%C_WarningLimit and %A/%B/%C_Level.LowerLimit) for the two pump units. However, it is possible to set the WarningLimit and Level.LowerLimit to different values on both pumps. This results in different RemainTime values for both pumps, which is not possible with a shared bottle. In addition, %A/%B/%C_Level.Value is divided by a factor of 2. That is, the system switches the pump off at half the intended Level.Value.</p> <p>Workaround: Set the same eluent monitoring properties (%A/%B/%C_WarningLimit and %A/%B/%C_Level.LowerLimit) for both pump units.</p>
205591	<p>Vanquish Core Diagnostics: Rebooting an instrument with a Vanquish Core DAD during a running diagnostic test results in a continuously running diagnostic test. It's not possible to start a sequence run, baseline monitoring or another diagnostic test.</p>

ID	Description
205592	<p>HPLC-OQ/PQ: The following ready check error (gradient test) may occur for Vanquish instruments containing a VH-C10-A or VC-C10-A with a valve installed: "Unknown symbol: ColumnComp.\$LowerValve.CurrentPosition"</p> <p>Workaround: Replace the string "\$LowerValve" by the corresponding valve device name and save the instrument method.</p>
205593	<p>Vanquish Charger: After an upgrade of the Vanquish Charger firmware version, the charger ePanel does not provide the option to launch the inventory scan.</p>
205594	<p>Vanquish Autosampler: On the ePanel ("More Options" subpanel), clicking on the "Sampler Loop 25 µl" button sets the Total Loop Volume to 49 µl.</p> <p>Workaround: On the ePanel ("More Options" subpanel), manually adjust the Total Loop Volume to 50 µl.</p>

4.2 Limitations with Waters Driver Pack

ID	Description
148624	Waters 2690/2695: In very rare cases, a sequence is interrupted with the error message: "Acquisition finished by Chromeleon before first data point could be transferred. Maybe the run time is too short in case of blank run."
163383	Waters ICS driver: Changing the instrument configuration of a Waters ICS driver is not propagated to Chromeleon. Workaround: Reboot the IPC after changing the instrument configuration.
167439	Waters Acquity: With Waters Driver Pack installed on an Operating System with regional settings other than English (US), opening the Chromeleon Instrument Method Editor to edit a method for a Waters Acquity system, the Chromeleon.exe may crash with a .NET Runtime error. Please ensure consistent regional settings for the client and the IPC. Please refer to the documentation for Waters Driver Pack or contact Waters Inc. to confirm if your language pack is supported with Waters Driver Pack. Workaround: Change Operating System to English (US) locale settings.
177703	When opening the Waters Acquity Console in a server environment on a client computer, the log view is not up to date. In order to see an updated log view, use the Chromeleon audit trail or launch the Acquity Console on the IPC. Workaround: When opening the Waters Acquity Console in a server environment on a client computer, the log view is not up to date. In order to see an updated log view, use the Chromeleon audit trail or launch the Acquity Console on the IPC.
187273	Waters Acquity: With Waters Driver Pack installed on an Operating System with regional settings other than English (US), opening the Chromeleon Instrument Method Editor to edit a method for a Waters Acquity system, the Chromeleon.exe may crash with a .NET Runtime error. Please ensure consistent regional settings for the client and the IPC. Please refer to the documentation for Waters Driver Pack or contact Waters Inc. to confirm if your language pack is supported with Waters Driver Pack. Workaround: Change Operating System to English (US) locale settings.
190365, 139353	With Waters Driver Pack installed, the title bar of the Chromeleon Studio window becomes invisible. This is a known issue that has been reported to Waters.
192725	Waters Acquity System Driver: A Ready Check for Alliance detectors with blank injections results in an error even if no acquisition channel is selected.

4.3 Limitations with Agilent ICF

For a general overview regarding the Agilent Instrument Control Framework, please refer to the document Chromeleon and Agilent ICF - Quick Start Guide - Chromeleon 7.3.pdf, found in the \Documents\ folder of the Chromeleon installation disk. For Agilent drivers, please refer to Agilent documentation.

ID	Description
143602	Agilent LC re-injects the same vial twice instead of going to the next one.
148279	Agilent ICF: When the HS 7697A connects to the software, occasionally the following superfluous error is reported: "An ICF Driver call failed. Ensure that the instrument is connected and powered on". The message does not interfere with data acquisition and may be ignored.
165661	Agilent 1290 ELSD: For an Agilent 1290 ELSD controlled by Agilent ICF drivers, the sequence interrupts with an error message: "Error 155: An error occurred during data collection. Data integrity compromised." This issue has been reported to Agilent.
165966	<p>Using an Agilent LC system with a sampler and the Agilent LC-ICF Drivers on a Japanese, Chinese or Brazilian Portuguese O/S, the sequence wizard does not allow creating a sequence.</p> <p>Workaround: This issue is caused by a language satellite DLL provided by Agilent Technologies (Agilent.LCDrivers.Sampler.BusinessObjects.resources.dll). Removing this satellite DLL addresses the issue, while presenting the user interface in English language. For example on a Japanese O/S remove "C:\Program Files (x86)\Agilent Technologies\Instrument Control Framework\ja\Agilent.LCDrivers.Sampler.BusinessObjects.resources.dll". Alternatively, use Agilent Chromeleon Drivers instead of Agilent LC-ICF Drivers to control the instrument.</p>
178654	Chromeleon Studio crashes on a terminal server (2016) when attempting to create an instrument method with ICF 2.6 Update 2 installed.
192717	Agilent LC system driver: Sporadically when changing the IP address of an Agilent LC system and trying to retrieve the configuration of a different system, the ePanel for the Agilent LC system shows an error message in the Chromeleon Console.
147732, 181434	For an instrument method for an Agilent instrument using the ICF-based LC System driver, with a post time equal or greater than 2 minutes, the sequence aborts at 2 minutes post time.

4.4 Limitations with Other Third-Party Instruments

ID	Description				
128130	<p>PerkinElmer Clarus 690 GC: Overloaded peaks result in spiked peaks above and below the baseline.</p> <p>Workaround: Prevent the signal from becoming too large by reducing either the signal amplification or the injection volume. For applications with very small and very large peaks in the same chromatogram: As there is a limit of $1/2^{32}$ between the highest possible and the lowest possible signal that can be detected with the same range/attenuation settings, the only possible workaround is to switch attenuation/range during the run (at a time when there is no signal) and to take this into account when evaluating the peak heights.</p>				
141735	<p>Shimadzu Prominence-i Series: A sequence is interrupted with the error “Abort Error: Timeout while waiting for the instrument to finish, the current injection will be aborted.”</p> <p>Workaround: The Release Notes provided by Shimadzu describe a workaround for LC driver version 2.20 or later: When the system is waiting to start a blank run, the data acquisition may be interrupted in some cases. As a workaround, please set injection volume to 0.0 and change the type to “unknown”.</p>				
148300	<p>PerkinElmer Clarus 590 GC: Autozero does not set the signal to zero, instead the signal stays at about -2.5mV. This was observed at at DCR of 12.5 Hz.</p>				
161617	<p>Shimadzu LC 20 native driver: If the flow rate for a pump has exceeded the upper limit, the sequence aborts with an error “HPLC_System Fatal Instrument Error (-1073708575, 1).” The Shimadzu documentation states the following for the error code C00081E1 (hexadecimal converted from the decimal -1073708575):</p> <table border="1" data-bbox="448 1088 1417 1265"> <tr> <td data-bbox="448 1088 691 1265">0x81E1</td> <td data-bbox="691 1088 933 1265">Pump: Flow rate has exceeded upper limit.</td> <td data-bbox="933 1088 1176 1265">The binary/ternary gradient system is configured with pumps of different flow rate ranges.</td> <td data-bbox="1176 1088 1417 1265">Check the instrument configuration.</td> </tr> </table>	0x81E1	Pump: Flow rate has exceeded upper limit.	The binary/ternary gradient system is configured with pumps of different flow rate ranges.	Check the instrument configuration.
0x81E1	Pump: Flow rate has exceeded upper limit.	The binary/ternary gradient system is configured with pumps of different flow rate ranges.	Check the instrument configuration.		
162078	<p>PerkinElmer Clarus 580/590/600 GC: The PerkinElmer Clarus GC 580/590 and all 600 series offer a new feature ‘RinseBeforeReady’. With the ‘RinseBeforeReady’ feature enabled, a missing vial results in an abort error “missing vial” but does not interrupt the injection. In addition, if ‘SampleWash’ is also activated in the instrument method, the missing vial error specifies the wrong vial number (“Vial 2” instead of “Vial 1”).</p> <p>Workaround: a) Avoid ‘missing vial’ incidents when working with ‘RinseBeforeReady’, especially when rinsing includes a ‘SampleWash’. b) If ‘missing vial’ can’t be avoided, deactivate the ‘RinseBeforeReady’ feature.c) If this happens regularly although there is a vial at the specified position, this may be caused by erroneous ‘missing vial’ events, which may be caused by poor crimping of the tube caps or a decalibrated sensor.</p>				
168709	<p>PerkinElmer Clarus 690 GC: Peaks in data collected with PerkinElmer Clarus 690 GC are not properly displayed. For an analysis where the diluent peak is saturating, negative response values are displayed.</p> <p>Workaround: The PerkinElmer Clarus 590/690 GC is equipped with a new FID detector type featuring a higher resolution than the previous generation FID. When transferring an instrument method created on a Perkin Elmer Clarus GC with the previous generation FID, the instrument method may need adapting to the new more sensitive FID. See also Incident ID 128130.</p>				

ID	Description
172728	<p>Instruments: Third Party Drivers: In some instances, communication errors are seen with a PerkinElmer Clarus GC / Autosystem XL system run without temperature ramps. In the course of improving the PerkinElmer Clarus GC driver we have extensively tested the communication infrastructure and were not able to reproduce this issue neither with the PerkinElmer Clarus GC driver released with Chromeleon 7.2 SR3 MUa nor with the improved driver released with Chromeleon 7.2.10 and 7.2 SR5 MUh. We recommend upgrading to Chromeleon 7.2.10 or 7.2 SR5 MUh, which provides a PerkinElmer Clarus GC driver with improved communication infrastructure. If the problem is still observed after an upgrade to Chromeleon 7.2.10 or 7.2 SR5 MUh, we recommend checking the cabling, in particular the connection between the PerkinElmer Clarus GC and the sampler which triggers the GC start.</p> <p>Workaround: Add a small oven ramp at the end of the GC run (after the analysis has ended). E.g., 3-5 °C as 'cleaning' phase should be sufficient to keep the GC 'not ready' long enough so that the entire method can be downloaded, including the sampler settings</p>
177733	<p>Perkin Elmer Clarus 500 GC: In rare cases, it's not possible to start an injection. An error message "Could not update setting for 'Data_Collection_Rate': Device reports 'OERROR: 92 GC BUSY'" is logged.</p>
194996	<p>Shimadzu 2030: When collecting UV data, in rare cases the signal drops to a very large negative number.</p> <p>Workaround: In the driver configuration set the signal factor for the PDA_Spectrum signal to 1.000 manually. Seems to be 1000 in some cases (most likely a localization problem on some systems with specific languages, in which separator and thousand separator are swapped).</p>
208513	<p>Shimadzu LC 2010: Trying to control a Shimadzu LC 2010 HPLC System (LC 2010A or LC 2010C) with a UV detector and a non-UV detector (e.g. a UV and an RI detector) leads to an access violation.</p>

4.5 Limitations With Setup

ID	Description
172752	<p>Setup: Under some circumstances, updating to Chromeleon 7.2.10 MUa on an Instrument Controller may fail. If this should happen, check if there are instrument modules that need longer to disconnect (e.g., slow Ethernet connection).</p> <p>Workaround: Check that all instruments are idle, then manually stop the Instrument Controller before the update.</p>
211584	<p>Updater Service: The Updater Service cannot be used to automatically deploy Chromeleon 7.3 MUb onto clients running the Chromeleon Process Analyzer (CM7-PA). Those systems must be updated by running the installer directly on the client machine.</p>
216328	<p>In some cases when uninstalling a Chromeleon Maintenance Update (MU), the final page of the wizard will erroneously indicate that errors were found. Opening the resulting IQ report would then give an error stating that the file cannot be opened. When the report is opened directly from the file, no errors are shown. Workaround: Rerun the IQ, which should result in no errors shown in the wizard or in the report.</p>

4.6 Other Limitations

ID	Description
124150	Peak Detection: Chromeleon 6 Algorithm: In very rare cases the peak detection with the Chromeleon 6 algorithm runs into an error message "Can't read channel Index was out of range.". This error message is shown in the chromatogram plot pane of the Chromatography Studio window. No results are reported for such chromatograms.
128084	Group Table Report Variables: if report variables of the category 'Integration Table' or 'Summary Table', e.g. table.groupSum, are referencing table columns which are referencing spreadsheet cells outside the corresponding report table, it can happen that the values reported for these report variables are not updated correctly when a report sheet is rendered for an injection. Whether this happens or not is heavily dependent on the order in which the Chromeleon report objects in the sheet (cells with Chromeleon formulas or report tables) are updated during the rendering process.
132963	Reporting: The IPD source spectrum and IPD deconvoluted spectrum do not use the Mass Precision as defined in the properties dialog
134826	Manual Integration of XICs: If XICs (Extracted Ion Chromatograms) is manually integrated the first time the corresponding privileged action is not applied. Although the privilege action is in the global policy section of the Administration Console the user can save the manually integrated XIC without getting the chance to enter a comment or being forced to enter his valid authentication password.
135733	Reporting MS Tune Data: when trying to report the MS Tune Data Set in the Report Designer the corresponding report table sometimes shows the error 'Cannot load data item ...'.
136878	Console: When MS data is opened In another application via the 'Open with' context menu item, the temporary RAW file name will be a random-appearing string.
137497	Console: Selecting the 'Lock Client' menu item would cause an error if the 'Client Inactivity' lock option in the Administration Console was not enabled.
177731	DDK Drivers: If a DDK driver (e.g., a Shimadzu driver or Agilent Chromeleon Driver) is running in overlapped mode and the processing method is changed, this will trigger a sequence abort of the driver.
138190	Opening an instrument method that is assigned to a not available instrument takes up to 40 seconds for the first attempt. Subsequent attempts are faster. The issue is caused by DNS resolution of the host name. Workaround: Create an instrument in simulation mode and assign the method to this instrument. Afterwards the instrument can be deleted. The DNS look-up will be faster as the physical PC is still existing.
140151	Virtual Column: In the pane plotting the Resolution and Gradient, it is possible to adjust the splitter between the two plots downward, but not upward.
140413	Peak Signal to Noise Calculation: When using the factor 1 in the formula for the peak report variable 'Signal-to-Noise Ratio', e.g. peak.sn("Current", "XTimes", 1.0, 20.0 * peak.width(50)), the result computation does not work reliably due to rounding problems and often reports n.a. instead of the true S/N ratio value.
140748	Studio: When reviewing a sequence that contained corrupted MS data, switching between injections may sometimes cause an error message "Error in sample changed event handler of object Chromatogram View"
141108	Process Analyzer: When the Source of a Ready Check error is 'Injection;' the link in the Ready Check dialog does not provide any information.

ID	Description
142001	Reporting: With very large MS sequences, generating reports or PDF files (especially when library searching was included) may result in an "system out of memory" exception error.
142553	Process Analyzer: When selecting 'Show Logon Events' for the Administration Audit Trail, logoff events for the Process Analyzer will not be listed.
143344	Administration Console: When renaming a role Chromeleon does not check whether the new role name already exists in a different OrgUnit.
143688	Licensing: When Network Fault Protection (NFP) is invoked, the notification bar in the Chromeleon Console will continuously report that there are 6 days for the Grace Period time remaining.
144750	Reporting Formula Condition: If a report formula contains multiple conditions logically combined via AND- or OR-operators the evaluation of such a formula expression does not work correctly in all scenarios. If one of the conditions cannot be evaluated revealing a single "n.a." result the evaluation of the whole report formula stops and the overall result of the report formula becomes FALSE although some of the conditions might return a TRUE value. Example: the filter condition "component.name is not empty or peak.rel_area("total") > 10.0" for an integration report table should be TRUE for all identified peaks (component.name is not empty) or any peak with a relative area greater than 10.0 %. Yet in this case only identified peaks pass the filter with TRUE. Unidentified peaks with a relative area greater than 10.0 don't pass as the first condition component.name cannot be evaluated for these peaks.
145131	User Management: Changing an Injection Custom Variable in a Sequence requires the user privilege "Data vault basics=>Modify list of custom variables".
145886	Electronic Signature Audit Trail Record: If an electronic report is created and submitted in the same operation as the submit of the corresponding sequence the data audit trail of the sequence contains a record 'Created' for the electronic report and a record 'Submitted' for the sequence. In previous Chromeleon releases (7.2.10 MUh, 7.2.9 and earlier) the audit trail record for the electronic report has been also marked as 'Submitted'.
148088	NTMS: When using the peak intensity auto-compute feature, the peak intensity threshold is truncated instead of rounded to the nearest integer.
148732	Admin Console: In the Instrument Controller page of the License Manager, a connected instrument may be greyed as if offline. When an acquisition is started, the status will change to Online.
148482	IPD: If the "Output Mass Range" method parameter is too large, a "Could not connect to the Thermo Deconvolution Engine" error will be reported.
148733	Custom Variables: When copying an injection record from one sequence to another or a component record from one processing method to another the content of associated custom variables are not copied along. The default values are used instead.
148927	Detailed Changes of Manual Chromatogram Integrations: for certain unknown manual integrations of a chromatogram one cannot view the detailed changes in the data audit trail. When pressing <Show Changes> for the corresponding data audit trail record Chromeleon runs into an error message "An error occurred while comparing the items". It is also not possible to create an audit trail report including changes for the sequence or to open a read-only studio session for the sequence version which contains the problematic manual chromatogram integration.
150978	Console: Dragging the height of an injection row to make it too small for the text can result in the line being hidden, until the console is restarted. This behavior has been seen only intermittently and only on a few PCs.

ID	Description
151219	Import: In some cases, when importing Empower data created as a .cdf file (AnDI format), the import can report an error or can result in no Chromeleon sequence being created.
151291	Console: Adding Custom Variables to a running Sequence will subsequently cause eSignature Verification to fail.
162551	Instrument Audit Trail: If the Instrument Audit Trail cannot be saved because ChromeleonLocal cannot be accessed, the following error message is logged: "The audit trail was unavailable for some time. Several audit trail messages are lost. They have been logged to the file "Dionex\Chromeleon\Log\AuditTrailMessages.log" in the (common) application data folder.". This error message is misleading in that the audit trail messages are not lost; they are written into the log file.
162629	Reporting: Under some circumstances, when generating an Intact Protein Deconvolution report for multiple injections, the results in the IPD Component Results table will always be those of the first injection, regardless of the actual injection number.
162850	Sequences: If a user does not have the 'Modify Sequence' user privilege, then changing the 'Read-only' status of the sequence from the Sequence properties dialog is not possible (A message is displayed indicating that the 'Modify Sequence' user privilege is required)
162910	If an instrument is deleted and another instrument with the same name set up, the new instrument inherits the sequence queue and fluidic configuration of the previous instrument of the same name. In particular, if a Run Smart Shutdown/Standby at the end of a queue and/or an Emergency Instrument Method has been selected for the queue of an instrument, these options are also being set for the newly created instrument of the same name.
163736	IPD: If the selected channel in the Data Processing category of the Studio is not the TIC, then the component scoring and the injection scoring in the IPD category of the Studio will not be consistent.
165158	Licensing: In an Enterprise environment, brief network interruptions may cause sequence acquisition to be halted with an error stating "License error: License server unavailable"
165964	If an emergency instrument method stored in a Network Data Vault is changed, the local copy of the emergency instrument method is not updated. Workaround: In the sequence queue, remove the link to the emergency instrument method, then add it again.
166453	Import: If a sequence includes injections with an MS RAW file > 2GB in size, then importing a cmbx file of the sequence may fail.
166496	Terminal Server: When clicking on a sequence in the Console, an error message is occasionally displayed about an unhandled exception "SynCFusion.Windows.Forms.Grid.Grouping.GridMaxLengthSummary". After dismissing the error message, the sequence can be loaded as expected.
166664	Sequence with two Electronic Reports: In certain scenarios it might happen that a submitted sequence contains 2 electronic reports which is a not supported use case. Trying to remove the sequence signature or to continue with further signature steps runs into an error message telling "The electronic report is out of date. Click here to update the electronic report". There is a workaround: In the Chromeleon console window double-click on the more recent electronic report in the associated objects area of the sequence editor. This opens the selected electronic report. In this scenario you can remove the signature just from this electronic report and the superfluous electronic report itself. After that, the signature state of the sequence should be consistent again.

ID	Description
167220	Station Audit Trail: Due to a timing issue, it is possible that the audit trail will incorrectly report that "Integrity Check Failed" if the audit trail was being updated by another process.
167926	Processing Method: When the 'Update' button is used to change values for XICs of a component, values for custom variables and calibration levels will disappear from the UI.
167823	Console: If the 'When a user logs on, lock all other client sessions' option in the "Multi-User Logon" section of the Admin Console is enabled and the 'Client Inactivity' lock option in the Administration Console is not enabled, then when a second user logs on a "System.ArgumentOutOfRangeException" error is generated.
169147	PDF-Export: After the installation of a Windows Feature Update attempting to export a sequence to PDF may fail with an error stating "Printer not activated, error code -30". To resolve this problem, rerun the Chromeleon setup, selecting 'Repair' on the opening screen of the setup program
169496	<p>Studio: If an MS Channel is extracted and made permanent while a sequence is still acquiring, then right-clicking on an injection acquired after that event afterwards and selecting ""Keep as Channel..." will generate the error "[Channel name] already exists for at least one injection of the current sequence. Existing channels cannot be overwritten."</p> <p>There are two workarounds:</p> <p>When extracting channel during sequence running, uncheck 'Make channel permanent', wait until sequence finished then perform 'Keep as Channel...'. Note that this works only if you do not exit Studio, once exited, all temporary channels are gone.</p> <p>Before running the sequence, set an unconditional SST/IRC case in the processing method to extract the MS Channel</p>
169879	<p>In rare cases, a sequence completes, and some injections contain raw data, but the status shows "Interrupted" or "Idle" and the Inject Time field is empty. Raw data have been successfully acquired and stored on the local Instrument PC. The Injection Audit Trail on the Instrument PC contains complete information, including the missing details.</p> <p>Workaround: Remediation for this incident is manually re-executing the data upload from the local IPC to the Central Data Vault. Note: If you are affected by this problem, please contact your local Thermo Fisher representative for assistance with recovery of the missing injection details.</p>
170404	<p>Custom Variables in Chromeleon 6 Reports: Chromeleon 6 offers an option to automatically convert UDCs (custom variables) of type string to numeric values in any report formula evaluation. This option is stored in the variable "Convert UDC To Numeric" of the Windows registry key [HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\Dionex\Chromeleon\Report].</p> <p>When rendering reports for sequences in a Chromeleon 6 data vault using a Chromeleon 7 client or for Chromeleon 6 sequences imported to a Chromeleon 7 data vault result formulas using such UDCs (custom variables) show either different results or no results compared to the corresponding report created by a Chromeleon 6 client.</p>
170414	Signature Removal: if the electronic report is missing for a signed sequence, the removal of the signature is not possible. Trying to do so results in the error message 'Value cannot be null'.

ID	Description
172731	Data Audit Trail: After performing a manual manipulation of an MS component trace and saving the sequence, the first entry in the chromatogram data audit trail for that MS Component trace will show be 'Changed', not 'Created', The lack of a "Created" line in the audit trail means that it is not possible to show the changes of the first chromatogram manipulation, nor to restore the previous chromatogram version. As a workaround, use the injection data audit trail to show the changes of the first chromatogram manipulation and, if desired, to revert the first chromatogram manipulation.
172742	IQ/OQ/PQ: For the OQ/PQ for the UltiMate 3000 NCS-3500RS in the warmup and oven test sequence Solvent B shows a wrong value on the specification sheet. Instead of "water + 0.x% acetone" the sheet shows "Caffeine..." as the value for solvent B for gradient (correct reference is line 375 instead of 372).
172753	Privileges: The privilege "Control Instrument While Queue is Running" does not apply to ICF controlled instruments.
172748	Queries: When using Oracle as a data vault server, text-based queries (e.g. searching for an injection name) are case sensitive. So, for example searching for "Extract" would not return matches for "EXTRACT" or "extract". This limitation does not apply to SQL Server data vaults, since SQL Server text searches are case insensitive.
175214	Reporting Retention Index for TIC channels: Computing the retention index for a peak using the option 'Use detected retention time of' and specifying a rule for the reference injection, e.g. injection.number=1, doesn't work for the TIC channel. The report value is always n.a. As a workaround you can use the Copy Channel command for the TIC channel. The retention index computation for the copied channel works as expected.
175542	Report Designer: In the MS Components plot, using a relative retention time with a reference injection from another sequence will result in an Error "Operation is not valid due to the current state of the object". To avoid this, either (1) turn off the component window display in the plot properties or (2) use an absolute RT for the component
176183	Privileged Actions: The Privileged Actions dialog for modifying a sequence is not displayed if the sequence is modified while it is still acquiring. However, the actual changes are still properly logged to the Data Audit Trail.
176633	Instrument Audit Trail: During a copy/paste operation, Chinese characters will be replaced by question marks
177677	Injection Query: When a custom variable is part of the query, multiple entries for some injections may be returned.
181792	Report Designer: After interactively printing using a report template, a message will appear prompting the user to save the modified print settings (though nothing was modified). Clicking 'ok' will not cause any problem, however the version number of the report template will be incremented.
183757	Sequence: If a user lacks the "Modify running sequences" privilege, it is still possible to save changes to an instrument method in that sequence. It is also possible to create new Processing Methods, Report Templates and View Settings.
183709	Injection Query: In an Enterprise environment, if the Injection Query is not saved before running, then query results for a sequence in the same folder as the unsaved query may not be accessible (since the folder contents cannot be refreshed due to the pending changes). Therefore, when those injections are opened in the Studio, they might not appear or might have an incorrect name. In addition, opening the sequence containing that injection from the query results list may fail. To prevent this problem, either create the query in a different folder or save it before running it.

ID	Description
185133	Reporting with Print Titles: Defining non-contiguous Print Titles is possible. Yet upon Print (Preview) this results in an "Invalid formula syntax." error message. Non-contiguous Print Titles may also be the result of including Print Titles within an Autorepeat Area.
186226	Licensing: When using a temporary license file in lieu of a dongle based license, the software will refer to this as a 'demo' license. This license is fully functional and suitable for normal use. More accurately, this is simply a 'time-limited' license.
187407	In the Studio, when the Component Table is displayed from a processing method which is not assigned to the current injection, clicking 'Show Properties' may sometimes display incorrect properties for the selected component. To avoid this problem, either edit the processing method outside of the sequence.
189525	MS data acquisition: If the MS does not make contact closure and consequently does not collect data, Chromeleon allows the injections to proceed without an indication of the problem or any errors reported.
190081	Admin Console: Licensing: On a non-English localized system, a permanent software license will incorrectly show an expiration date. This is only a UI issue - the license will not really expire.
191115	Station Qualification - OQ: The Chromeleon Operational Qualification Report for the Instrument Controller shows a superfluous truncated GUID in addition to the Chromeleon version and build number.
191634	When the Autoreporting service is enabled, many ReportManager[n].log files may accumulate in the C:\ProgramData\Dionex\Chromeleon\Log\ReportManager\ folder, many of which are empty. These files may be deleted if desired.
192357	<p>Baseline Monitoring: User A starts a baseline monitoring, then user B takes control of the instrument. If user B clicks on the "Stop and Save As" option, baseline monitoring stops, but the "Save Monitor Baseline Data To" dialog doesn't open. Similarly, if a user starts baseline monitoring on one PC, then tries to stop baseline monitoring from a different PC, the same behavior is seen.</p> <p>Workaround: Manually copy the baseline monitoring injection from the home data vault to an arbitrary sequence before the next baseline monitoring is started.</p>
192751	Multi-Channel Reporting: If components with identical names have separate rows in the Processing Method for different channels - let's say Channel A and B - an integration report table for Channel A including so-called 'Undetected Component' and dedicated result columns for Channel B does not show any results in these columns for components which are not detected on Channel A but are successfully detected on Channel B.
192757	XIC Chromatogram manipulations: when repeatedly modifying the integration (peaks, baseline) of XIC chromatograms, removing these modifications and the corresponding extraction parameters in the processing method again and again the MS component plot of the XIC chromatogram might not fit to the manually modified peak and baseline list anymore.
192899	Electronic Signature: Having manually integrated so-called XICs (Extracted Ion Chromatograms) the verification of such a sequence sometimes fails. The submit and verification process is dependent on how the manually integrated XICs have been viewed in the corresponding studio session before the submit or verification process is started.
192908	Peak Detection using Forced Peak Types: Using a forced peak type in the component table it might happen that chromatograms can't be opened in a Chromeleon Studio window. No results are computed and in the chromatogram plot pane you can see an error message like 'Can't read channel <Channel Name> for injection #<n> ...'. Forced Peak Type means that the Peak Type field in the component table is set to a different value than 'Autodetect'.

ID	Description
193426	Extension Packs: In the GCMS Environmental Analysis Extension Pack, the 3 ISTD summary reports do not correctly evaluate pass/fail when more than one ISTD is defined.
193468	Instrument Activity Log: The column called 'User' (hidden by default) is not used by any instrument driver and therefore never contains any information.
193488	Ad-Hoc Library Search: Although the order of the columns in the result table can be rearranged, the settings were not retained when the Ad-Hoc Library Search window was closed.
196739	Agilent RID G1362A: When the diodes are unbalanced (Agilent RID G1362A not ready), the sequence shows a warning "Module is not ready for run : Unbalanced diodes". However, the sequence is not interrupted and remains in running mode.
197688	Instrument Method Editor: Script Editor: Inserting a time step before equilibration stage is not possible. Workaround: Enter a negative time step in e.g. the pump gradient timetable or detector wavelength switching timetable. Not w work-around, the usual way to do that would be Insert the time in stage Equilibration.
200802	Import: Chemstation Data Import may fail with a 'System.OutOfMemoryException' error for large datasets.
202837	eWorkflows: If a user is logged in with a role that has the 'Modify eWorkflow' privilege but does not have 'Modify Spectral Library' privilege, then it is possible to edit a spectral library which is embedded in the eWorkflow. However, it is not possible to edit a spectral library which is linked to the eWorkflow. To avoid this problem, do not assign the above privilege combination to a role.
203099	Privileges: It is possible for a user logged in with a Role that does not include the "Modify Sequence" privilege, but *does* include the "Modify Finished Or Interrupted Injections" privilege to clear the assigned Instrument and processing method for injections in the sequence. This can occur if that user attempts to delete the assigned method from the Associated Items list. To avoid this problem, do not use the above privilege combination in a role
208326	Audit Trail: For two sequences running sequentially on the same instrument, if the upload of sequence 1 to the data vault is canceled (e.g., user-cancellation after a network outage), an upload error is written into the injection audit trail of the currently running injection of sequence 2.
208328	DDK V2: For the Generic ePanel Host the evaluation of the user in control is not working.

ID	Description
210282	<p>Chromeleon 6 Import / Network Failure Protection: The CM7 console does not display audit trail messages for the daily audit trail of Chromeleon 6 data or the sample audit trail of an imported Chromeleon 6 sequence. This concerns audit trail messages created during Network Failure Protection (NFP):</p> <ul style="list-style-type: none">• Under certain circumstances, an incorrect "Write back finished" message would be returned before the data was successfully restored to the central data source.• On rare occasions, when restoring files from the mirror after recovery from network failure, the files would contain only zeroes.• When attempting to restart a (modified) batch during network failure protection, no warning was presented to the user. In Chromeleon 6 a warning is now presented informing the user that the locally available information may be out of date.• In rare circumstances 2D raw files acquired on a network data source would contain a damaged range. Additional checks during the save process have been implemented to detect this and overwrite the files using local NFP copies.• If the user aborted a sample while fractionation was running and then restarted the batch, the original sample's program would still be running and the subsequent sample would be set to interrupted.
211964	<p>Data Vault Manager: Renaming a data vault in the Data Vault Manager was not possible anymore.</p>

5 Backward/Forward Compatibility Issues

5.1 Chromeleon Enterprise Compatibility between Chromeleon Versions

In general, for customers with Enterprise Chromeleon systems, we do not recommend connecting clients or IPCs with different versions of Chromeleon into the same Chromeleon Domain. Chromeleon 7.3 cannot be networked with 7.2 installations.

Features available in newer versions, such as email notification, automated reporting, automated LIMS export, etc., may not work correctly with data created or acquired on an older client or IPC.

Similarly, if data that was created on a newer version of Chromeleon is accessed from a client running an older version, then the data can be opened, edited and saved without losing any parameters specific to the newer version. But any new parameters, like data processing enhancements or newer report variables will not be included in any data processing as they are 'invisible' to the older client, and may cause results or reports to be generated with different values to those which would be generated on the newer version.

Additional restrictions may also apply. If you have any questions or concerns, please contact your local Chromeleon support channel.

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