



Clarity™

ADVANCED CHROMATOGRAPHY SOFTWARE

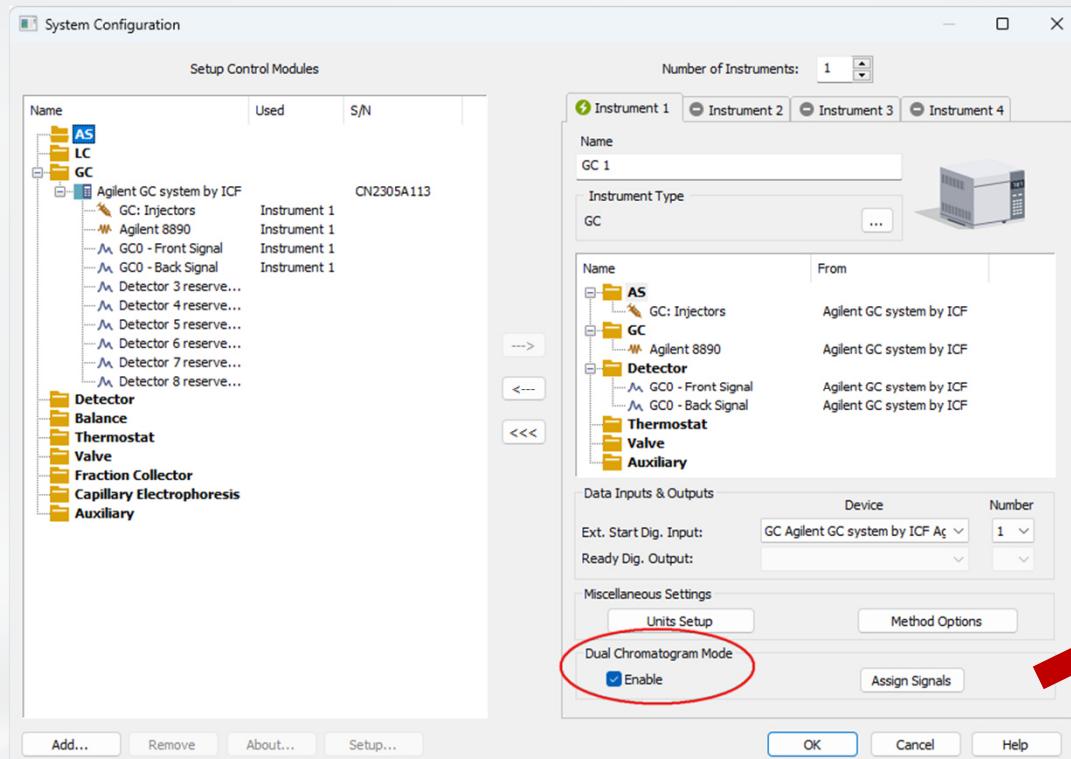
CLARITY 10.0

WHAT'S NEW

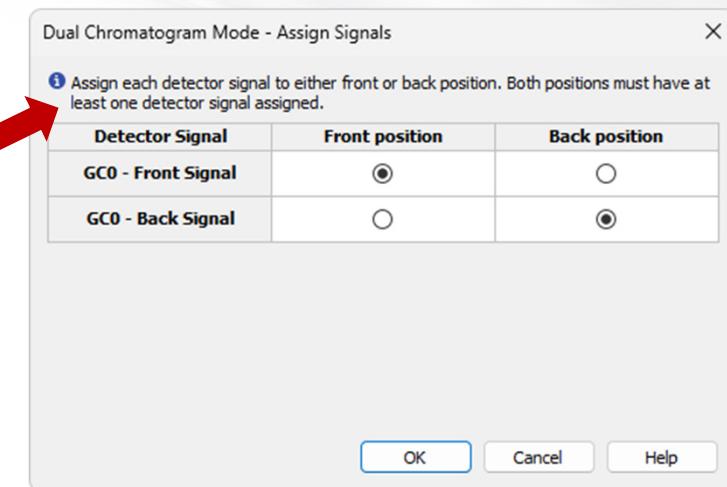
WHAT IS NEW IN CLARITY 10.0?

- Dual Chromatogram Mode
- Improvements for GLP mode
- Real time isoplot in Data Acquisition window
- Method adaptation message extended by reason of adaptation
- Improvements for MS extension
- NGA calculations according to Natural gas norm EN ISO 6976:2016
- External control module installer
- New and updated control modules

DUAL CHROMATOGRAM MODE – SYSTEM CONFIGURATION

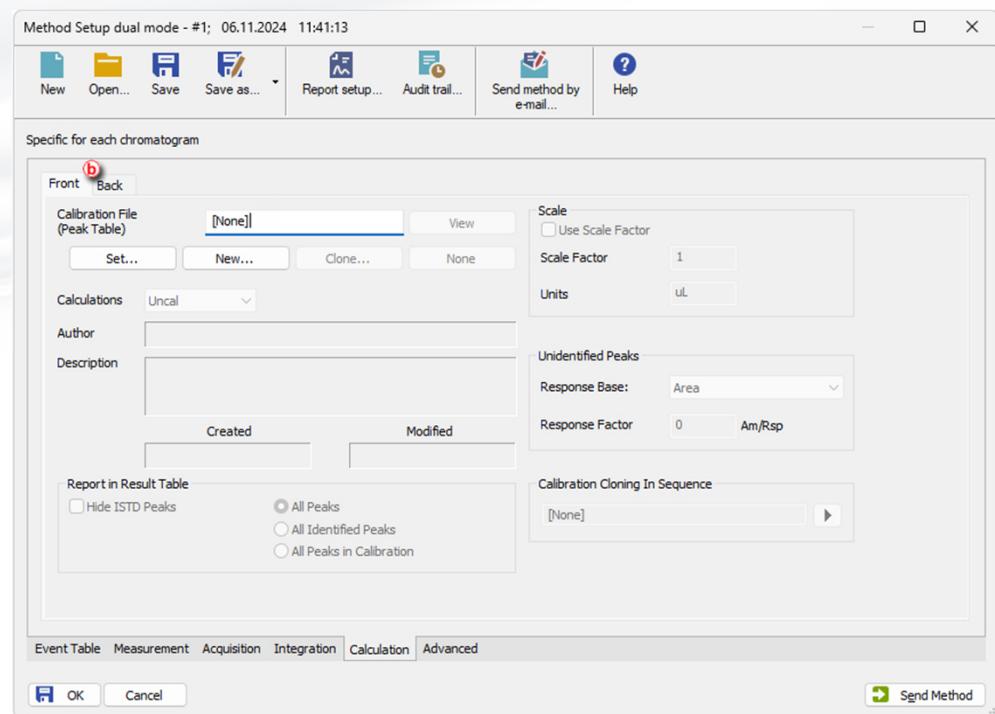
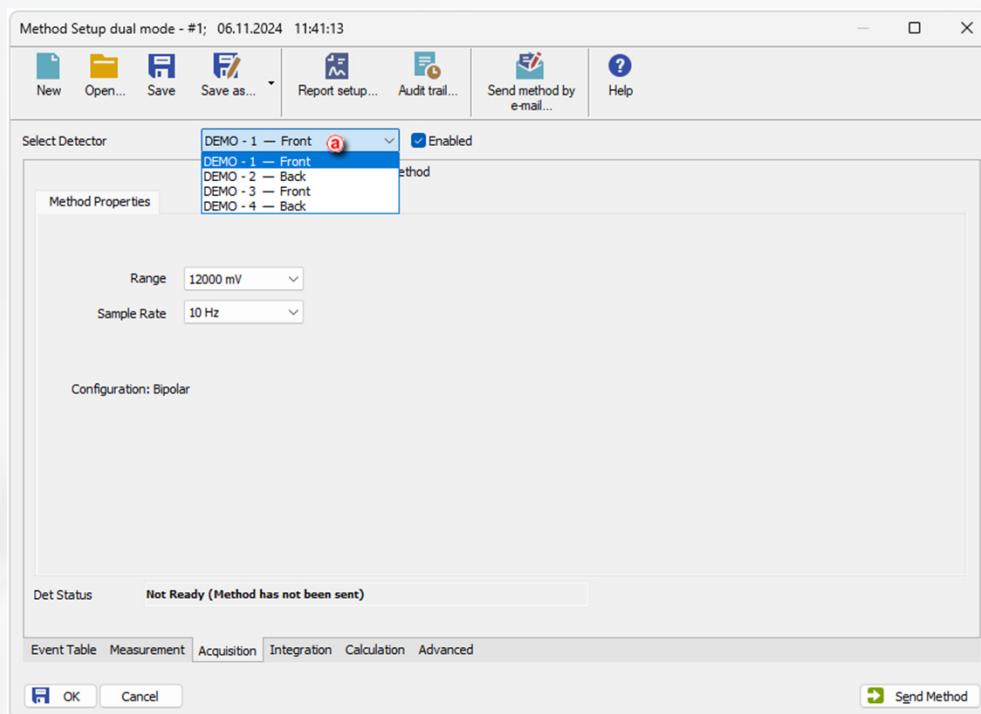


- Creates **separate chromatograms of 2 samples from one analysis**
- GC with dual tower sampler or LC with dual loop sampler
- Requires at least 2 detector signals on Instrument - one set as Front, one as Back



DUAL CHROMATOGRAM MODE - METHOD

- Each signal is identified with assigned **Front or Back position** (a)
- Calculation and Advanced tabs are divided into 2 sub-tabs (b)



DUAL CHROMATOGRAM MODE - SEQUENCE

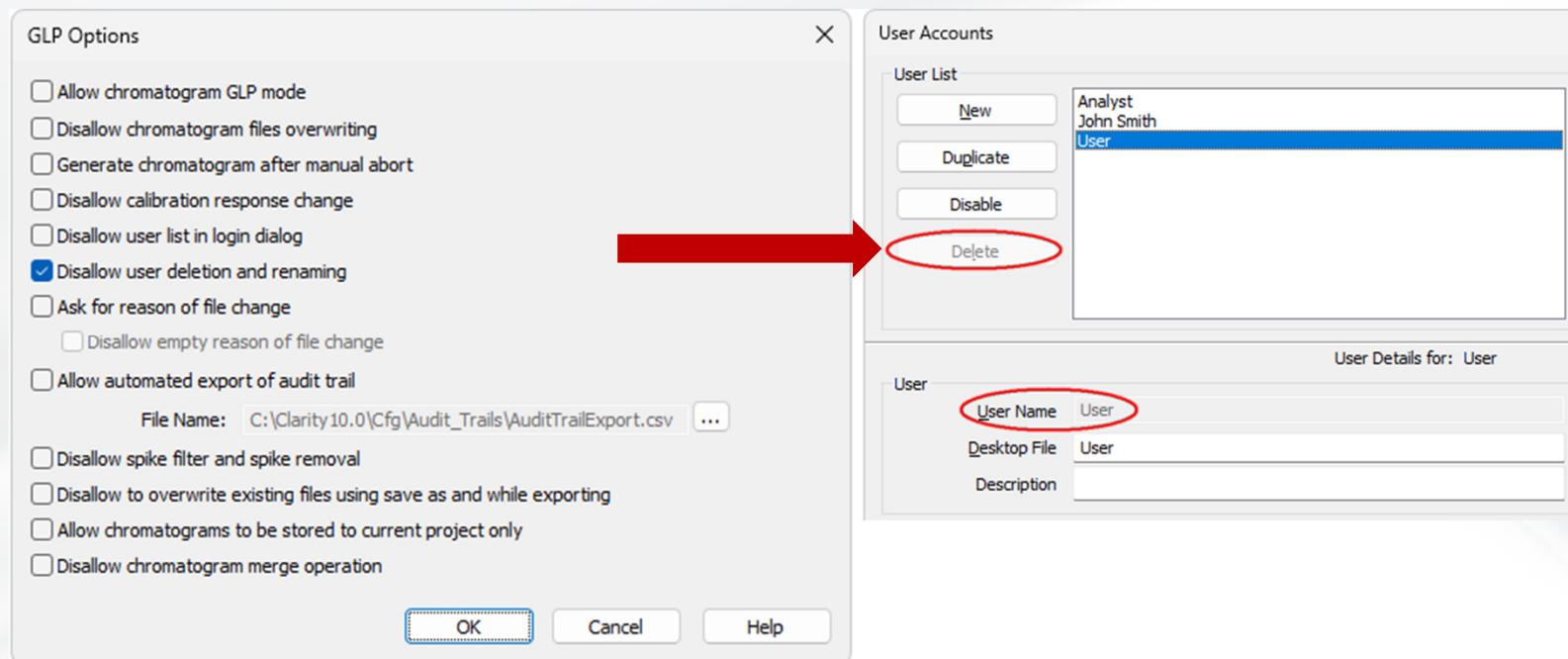
- Duplicated columns: **Sample ID, Sample, File Name, Line Info**
- Back vial position is derived from the front position by a fixed offset

	Status	Run	SV	EV	I/V	Sample ID - Front	Sample ID - Back	Sample - Front	Sample - Back	Sample Amount	ISTD1 Amount	Sample Dilut.	Inj. Vol. [µL]	File Name - Front	File Name - Back	Sample Type	Lvl	Method Name	Report Style	Open	Open Calib.	Print	Line Info - Front	Line Info - Back
1	<input checked="" type="checkbox"/>	1	1	1	1	STD1	STD1			0,000	0,000	1,000	100,000	%q_%R_Front	%q_%R_Back	Stan	1	Demo1		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2	<input checked="" type="checkbox"/>	2	2	1	1	STD2	STD2			0,000	0,000	1,000	100,000	%q_%R_Front	%q_%R_Back	Stan	2	Demo1		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3	<input checked="" type="checkbox"/>	3	3	1	1	Unk1	Unk1			0,000	0,000	1,000	100,000	%q_%R_Front	%q_%R_Back	Unkn		Demo1		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4																				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5																				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

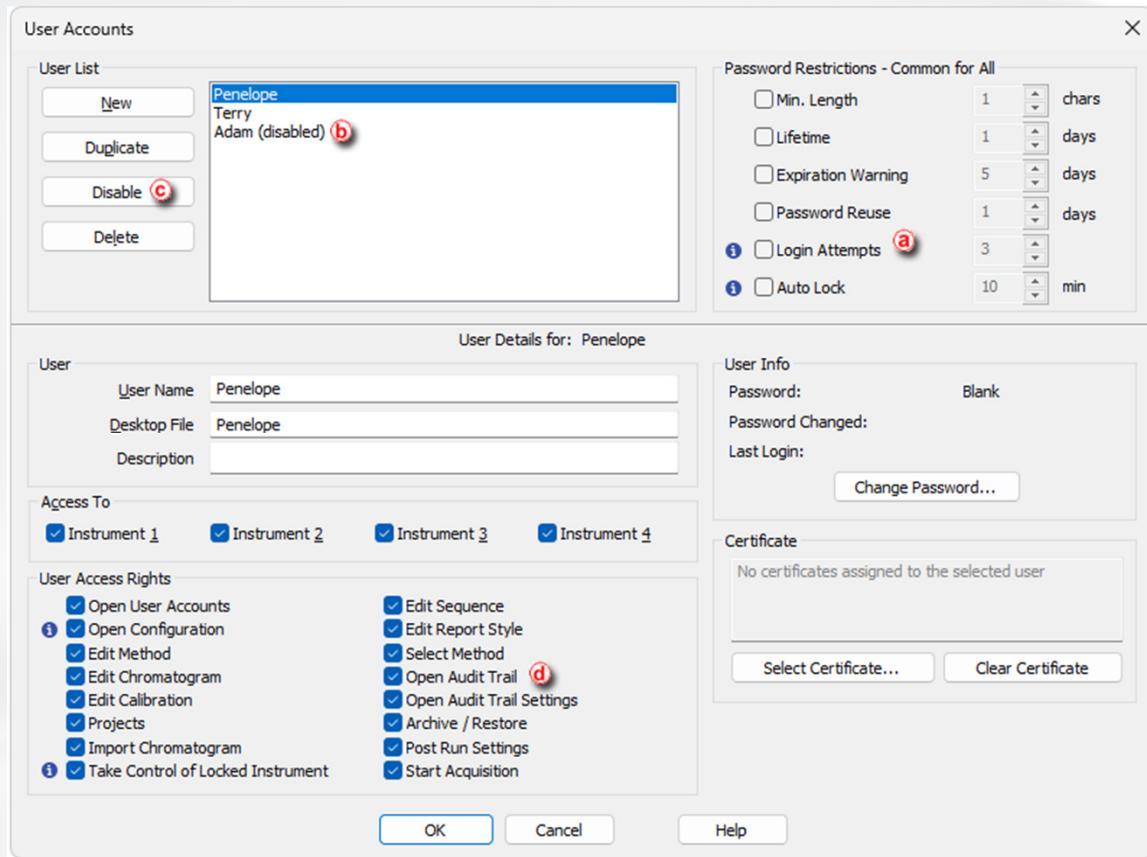
For more see **M251-Dual Chromatogram Mode** manual on our website in section Downloads.

IMPROVEMENTS IN GLP

- A new item to **prevent any user account from being deleted or renamed**
- Renaming is possible only before initial saving of the new user account



IMPROVEMENTS IN GLP – USER ACCOUNTS



Automatic disabling of user account

- A new checkbox *Login Attempts* (a)
- After reaching the set limit account is disabled: (b)
=> account with access to User Accounts - **for 1 h**
=> regular account - **permanently**

Manual disabling of user account

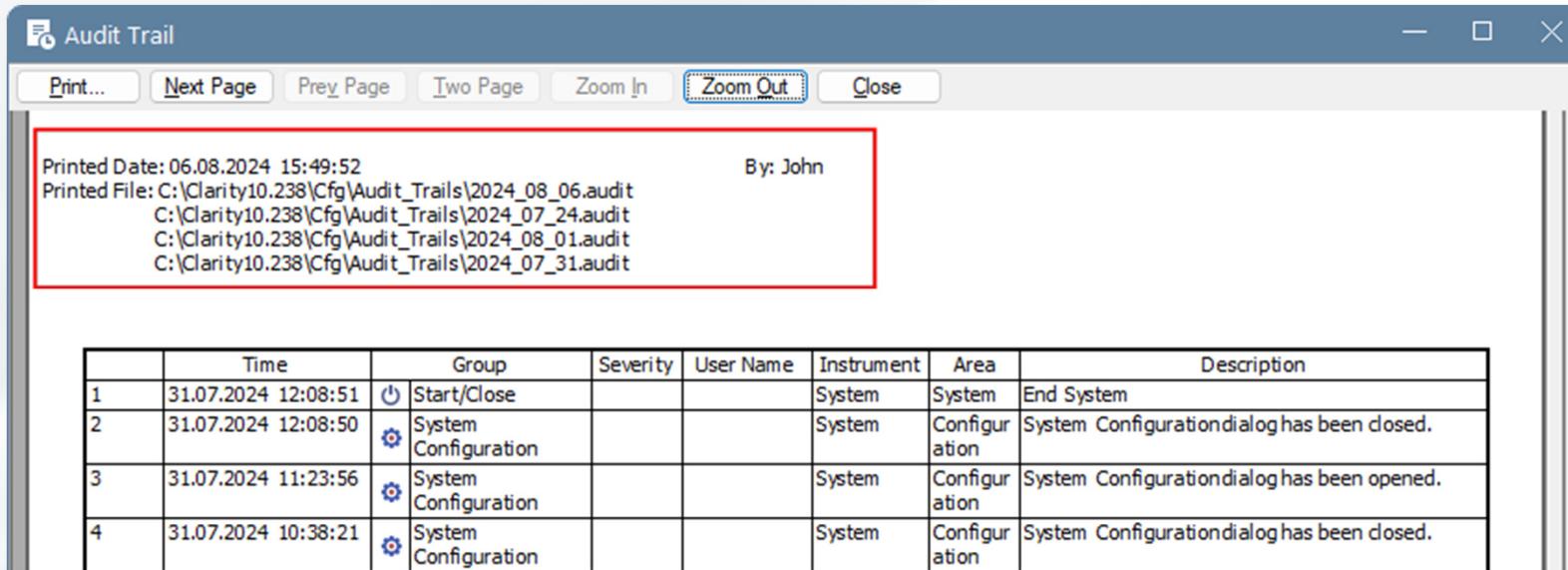
- A new button *Disable* (c)
- To enable account again press the same button

Audit Trail

- A new Access Right for opening audit trails (d)

IMPROVEMENTS IN GLP – AUDIT TRAIL

- A new header in Print Preview
- Basic information about report: **Printed Date**, **Printed File(s)** and **Printed By**



The screenshot shows the 'Audit Trail' window with a blue header bar. The window contains a toolbar with buttons for 'Print...', 'Next Page', 'Prev Page', 'Two Page', 'Zoom In', 'Zoom Out' (which is highlighted in blue), and 'Close'. Below the toolbar, a red box highlights a section of text: 'Printed Date: 06.08.2024 15:49:52', 'Printed File: C:\Clarity10.238\Cfg\Audit_Trails\2024_08_06.audit', 'C:\Clarity10.238\Cfg\Audit_Trails\2024_07_24.audit', 'C:\Clarity10.238\Cfg\Audit_Trails\2024_08_01.audit', and 'C:\Clarity10.238\Cfg\Audit_Trails\2024_07_31.audit'. To the right of this text is the 'By: John' label. Below this section is a table with the following data:

	Time	Group	Severity	User Name	Instrument	Area	Description
1	31.07.2024 12:08:51	⌚ Start/Close			System	System	End System
2	31.07.2024 12:08:50	⚙️ System Configuration			System	Configuration	System Configuration dialog has been closed.
3	31.07.2024 11:23:56	⚙️ System Configuration			System	Configuration	System Configuration dialog has been opened.
4	31.07.2024 10:38:21	⚙️ System Configuration			System	Configuration	System Configuration dialog has been closed.

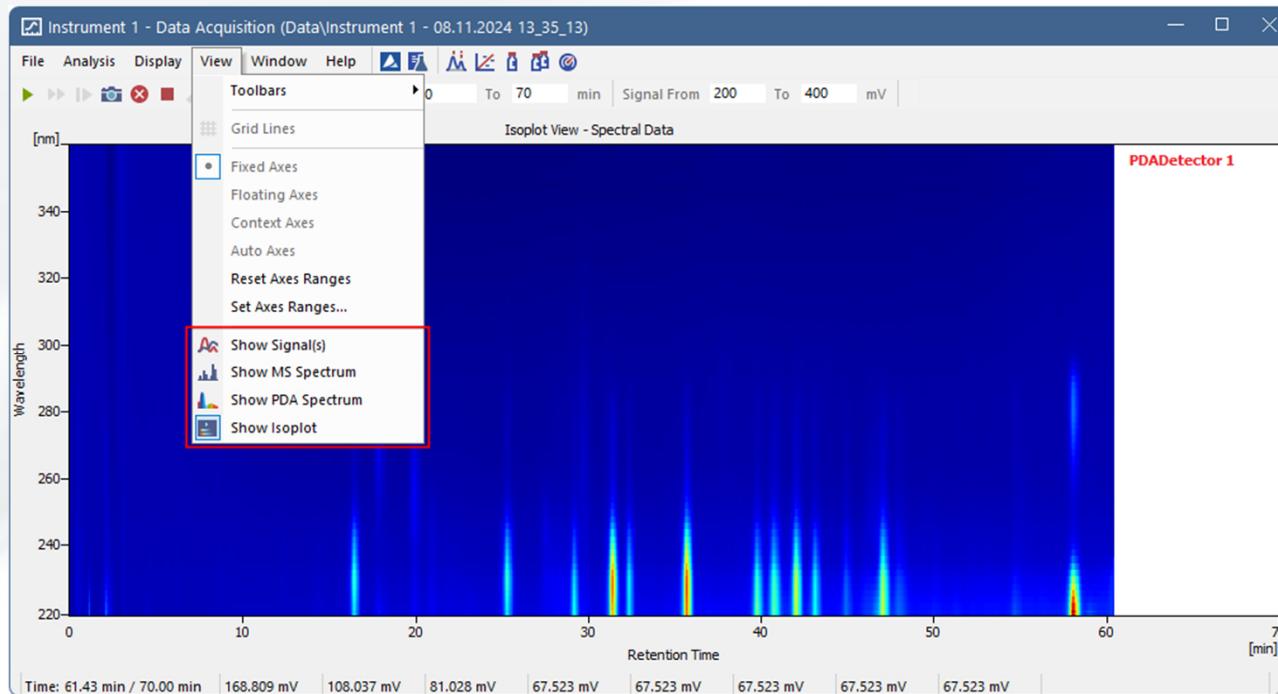
REAL TIME ISOPLot IN DATA ACQUISITION WINDOW

- View menu. **Show Signal(s)** = displays signal(s)

Show MS Spectrum = displays a real time MS spectrum during analysis

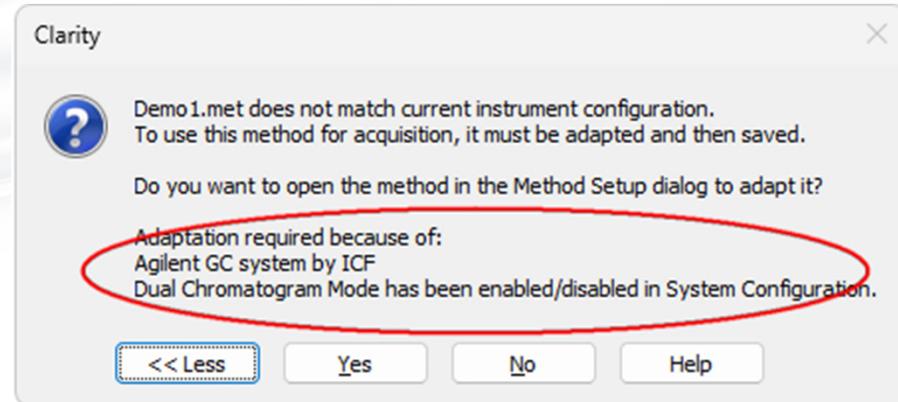
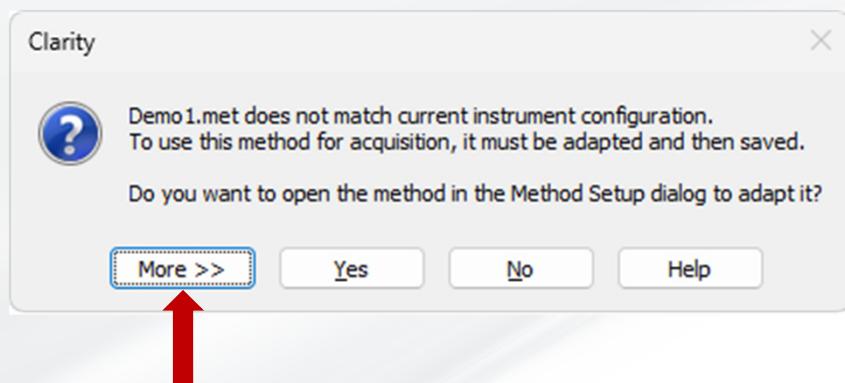
Show PDA Spectrum = displays a real time PDA spectrum during analysis

Show Isoplot = displays a real time isoplot view for PDA



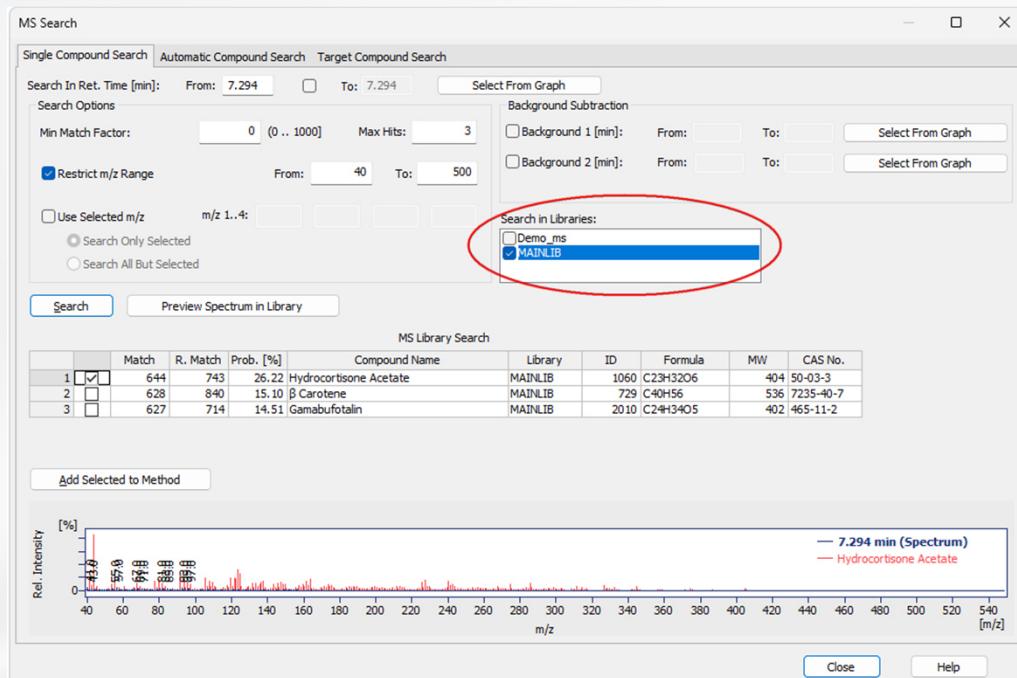
METHOD ADAPTATION

- Message extended by **reasons for adaptation**
- Displayed after pressing *More* button

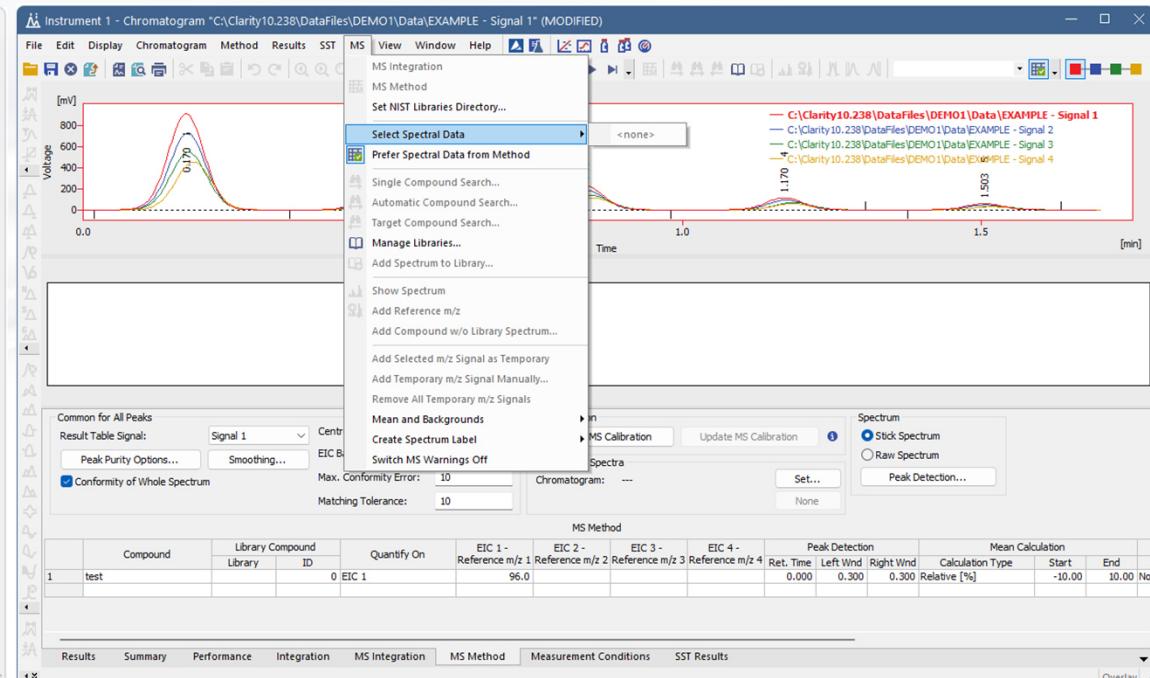


IMPROVEMENTS IN MS EXTENSION

- Library selection in Single Compound Search



- MS Method tab available in chromatogram without spectral data



EXTERNAL CONTROL MODULE INSTALLER



- A custom-made package installer
- To update/add control modules **outside** the official Clarity **release schedule**
- All control modules **must be approved** by DataApex
- Distributed by instrument producer
- Requires **its own installation qualification (IQ)**

OTHER IMPROVEMENTS AND FIXED BUGS

- Colored infobars in main window for better indication of Clarity installation type ([Clarity Demo](#), [Clarity Offline](#))
- NGA: Calculations of heating values (ASTM D 3588-98 and GPA 2172-09) and calculations on wet basis (ISO 6976-95) refined
- NGA: Support of calculations according to the Natural gas norm EN ISO 6976:2016
- Improvements in printing from sequence

... and a lot more

For more see **What's New** accessible from **Help - About...** menu of your Clarity station main window.

NEW CONTROL MODULES (VERSION 9.0.1 - 10.0)

- Agilent 8697 XL
- Agilent 8850 GC
- Chromsystems HPLC system modules CLC 200, CLC 320, CLC 330, CLC 340, CLC 420
- CXTH P3000, P6000, UV1000, UV3000, UV6000
- Ecom ECVA2000, ECA Amino 500 and CDM2000
- Haosi Bio ARIES LC 2400
- Knauer FC6.1 and P4.2S, UAD 6.1L and UAD 6.1L Prep
- Netel Chrom Plus 6000



NEW CONTROL MODULES (VERSION 9.0.1 - 10.0)

- Sykam S6410
- Teledyne ReaXus pumps
- VWR ELSD
- Welch WelNova 6110 Isocratic pump, 6120 High Pressure Gradient pump, 6140 Low Pressure Gradient pump, 6210 Autosampler



... and many control modules have been updated and improved.

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... THANK YOU FOR YOUR INTEREST IN CLARITY