

advanced chromatography software

USER TRAINING ADVANCED – PART 1

P008/80D 04/2022



Agenda

- Instrument window
- Chromatogram window
 - Overlay, 3D View and Labels
 - Setup columns
 - User columns
 - Noise and Drift
 - Performance tab
 - Force peak function
 - Peak coloring
 - Graph properties

- Sequence table
 - Overview
 - Description of sequence window
 - Basic functions
 - Sequence mode
 - Options
 - Import
 - Fill Series function

INSTRUMENT WINDOW \rightarrow USER SETTINGS

Agilent	7890 thod Analysis Evaluation	Setting Window Help Export Data Vuser Options Toolbars	- × User set individu files. For this the inst not in th
📀 Ready		*	
Status:	Ready to start run	User Options (Admin - Clarity)	?
Sent method:	7890a	General Graph Axes Appearance Signals & Curves Gradient Show windows on the taskbar. Play sounds assigned to selected events. Play sounds assigned to selected events. Send reports about unsuccessfully finished sessions. Request confirmation when opening old file formats. Warn when maximum zoom reached. Warn before running already measured sequence. Ask whether create new subdirectory after single run Warn when reusing a Standard Chromatogram in Calibration Recent Files Counter (%n) S Reset When	& Auxiliary Signals Directories Zoom Button Image: Common stress str
Set user options a	ind defaults	Jong Instrument Opening Mouse Wheel Step (in Graphs) Instrument Opening Jong Instrument Opening Imits Imits Imi	Only Vertical Line Arrows Animated Arrows OK Cancel Apply Help

User settings are stored in ndividual users desktop *.dsk files. For this reason they are set in

the instrument window and not in the main Clarity window

×





CHROMATOGRAM WINDOW \rightarrow TEXT LABELS



\square CHROMATOGRAM WINDOW \rightarrow MATHEMATICAL OPERATIONS









CHROMATOGRAM WINDOW \rightarrow USER COLUMNS



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$\textcircled{\mbox{\footnotesize Data Acquisition}} \rightarrow \mbox{Noise Monitoring}$

Actual **noise monitoring** in the Data Acquisition window



\square CHROMATOGRAM WINDOW \rightarrow ALL SIGNALS RESULT TABLE



□ CHROMATOGRAM WINDOW → SUMMARY TABLE



Summary Table Options		×			
Table Inverted	Chromatogram Head Chromatogram / Signal / Chromatogram	er Signal ogram			
Report in Summary Table			Data\Sample_Vial_6-	Data\Sample_Vial_7-	Data\Sample_Vial_9-
All Identified Peaks All Peaks in Calibration			Signal 1	Signal 1	Signal 1
	Chloroform	Area [mV.s]	63,390	272,107	140,237
	Chloroform	Amount [ul]	1,266 ul	4,876 ul	2,842 ul
ОК	Cancel Trichloroethane	Area [mV.s]	185,250	806,068	419,318
	menioroediane	Amount [ul]	1,206 ul	4,709 ul	2,770 ul
	Tetrachlormethane	Area [mV.s]	688,956	2725,112	1541,388
	redactionicatione	Amount [ul]	1,277 ul	4,533 ul	2,899 ul
	Tricblorgethylene	Area [mV.s]	69,023	306,636	156,032
	menioroeutylene	Amount [ul]	1,248 ul	4,975 ul	2,863 ul
	Bromodichloroethane	Area [mV.s]	378,298	1634,130	870,847
	bi official children of cellidine	Amount [ul]	1,209 ul	4,685 ul	2,823 ul
	ISTD	Area [mV.s]	639,259	712,393	629,957
	1510	Amount [ul]	ISTD	ISTD	ISTD

0,000

140,237



Signal 1

Data\Sample Vial 9-

Amount

[ul]

1,277 ul

4,533 ul

2,899 ul

Tetrachlormethane

Area

[mV.s]

688.956

2725,112

1541,388

Trichloroethane

Area

[mV.s]

2,842 ul

185,250

806,068

419,318

Amount

[ul]

1,206 ul

4,709 ul

2,770 ul

Summary Table Options			>	×			
Table Inverted	Chi Chi	romatogram Hea) Chromatogram) Signal / Chrom	ader / Signal atogram				
Report in Summary Table	Par	rameter Header					
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O All Peaks in <u>C</u> alibration	n 🧧) Parameter / Co	ompound				
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	+					Area	mV.s]
		Sample Amount	Chloroform	Trichloroetha ne	Tetrachlorme thane	Trichloroethyl ene	Bromodichlor oethane
Data\Sample_Vial_6-	Signal 1	0,000	63,390	185,250	688,956	69,023	378,298
Data\Sample_Vial_7-	Signal 1	0,000	272,107	806,068	2725,112	306,636	1634,130
Data\Sample_Vial_9-	Signal 1	0,000	140,237	419,318	1541,388	156,032	870,847

\square CHROMATOGRAM WINDOW \rightarrow PERFORMANCE TAB



$\textcircled{\begin{tabular}{ll} \label{eq:chromatogram} \label{eq:chromatogram} \end{tabular}$ chromatogram window \rightarrow force peak name function



\square CHROMATOGRAM WINDOW \rightarrow PEAK COLORING



$\textcircled{\ }$ CHROMATOGRAM WINDOW \rightarrow PEAK COLORING

Graph P	roperties							×
Graph	Axes Appearance	Time Axis	Signal Axis	Signals	Gradient & Auxiliary Signals	Auxiliary Signal Details		
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Base	eline ine Marks]		Font As A	Font Color ctive Signal	Border: Windows Default Select		
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	As Active Signal			🗸 Set l	oy Calibration		Pea	ak Color
	Select	Í		🗹 High	light Selected Peaks in Graph		Cal	ibration
					OK Cancel	Apply	Help	
		Highlig selecte table o	ght peaks ed in Resu or Graph	llts				

I CHROMATOGRAM WINDOW \rightarrow GRAPH PROPERTIES \rightarrow DISPLAY OPTIONS FOR TIME AXIS





\square CHROMATOGRAM WINDOW \rightarrow GRAPH PROPERTIES \rightarrow GRADIENT & AUXILIARY SIGNALS

Graph Properties	— [
Graph Axes Appearance Time Axis Signal Axis	Signals Gradient & Auxiliary Signals Auxiliary Signal Details	
Use User Options Show Auxiliary Signals Show Gradient Show Total Flow	Solvent D Solvent D Solvent C	Gradient display options
Show Y Axis for (do not show) Auxiliary Signals Gradient Total Flow	Solvent B Solvent A Solvent A	Auxiliary Signals options
	Graph Properties	- D ×
	Source Common Settings by Auxiliary Signals Types	e Active Chromatogram Only I Open Chromatograms
	Flow Pressure Temperature Voltage	From To Auto Show Image: Constraint of the state of
	Override Settings for Opened Chromatograms	From To Auto Show Use Co
		OK Cancel Apply Help



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$\textcircled{\ }$ SEQUENCE TABLE \rightarrow OVERVIEW \rightarrow SELECT VIAL

- Defines a series of samples to be measured
- Essential for working with **autosamplers**
- For controlled autosamplers the Vial number and Injection volume are loaded from this table
- **Graphical** interface

Allows modifications during a run for not yet processed samples



$\textcircled{\ } \blacksquare SEQUENCE TABLE \rightarrow OVERVIEW \rightarrow ADD SAMPLES$

- Simply **add samples** by filling any field in the **last empty row**
- Solution Other fields will be **copied from previous row**
- Several samples can be added by **copying from a table**
- Allows the **import** of sample data from text files
- Allows **reprocessing of last measured** sample set

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2		\checkmark	2	2	1	Halocar	Std_2	1,000	2,000	1,000	5,000	%Q	Stan	2	Demo1	Calibration						
3		\checkmark	3	3	1	Halocar	Std_3	3,000	2,000	1,000	5,000	%Q	Stan	3	Demo1	Calibration						
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$\textcircled{\ }$ SEQUENCE WINDOW \rightarrow DESCRIPTION

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1				1	1	1	Halocar	Std 1	0.400	2.000	1.000	5.000	%0	Standard	1	Demo 1	Calibration			
2				2	2	1	Halocar	Std 2	1,000	2,000	1,000	5,000	%Q	Standard	2	Demo1	Calibration		H	
3				3	3	1	Halocar	Std_3	3,000	2,000	1,000	5,000	%Q	Standard	3	Demo1	Calibration			
4	~			4	4	1	Halocar	Std_4	5,000	2,000	1,000	5,000	%Q	Standard	4	Demo1	Calibration			
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1				1	1	1 Halocar	Std_1	0,4	2,000	1,00	5,000	%Q	Standard	1	Demo1	Calibration			
2				2	2	1 Halocar	Std_2		2,000	1,000	5,000	%Q	Standard	2	Demo1	Calibration	<u> </u>	<u> </u>	
3				3	3	1 Halocar	Std_3	+	2,000	1,000		%Q	Standard	3	Demo1	Calibration	+ H		
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P SEQUENCE WINDOW \rightarrow BASIC FUNCTIONS

	Use "Bypass" to perform run without injection for startup and shutdown methods	Include in SST – perform SST test when injection is finished	Stored Calib. – chromatogram will be opened with stored calibration
 ▲ Agilent 7890 - Sequence Demo1 (MODIFIED) File Edit Sequence View Window Help ▲ ● ▲ ● ▲ ● ● ● ■ ● ● ●			×
Status Run SV EV I/V Sample ID Sample	Sample ISTD1 Sample Inj.Vol. File Sample Amount Amount Dilut, IuL Name Type	Lvi Method Report Or Name Style Or	pen Open Print Include Stored Close Calib, Print in SST Calib, All
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For Help, press F1	Single Analys New file name variables %P – Project %s – Sequence %J – Method	d method or start sequence Vial: 1 / Inj.: 1 Close A opened overlay summa	II – close all currently I chromatograms in to prepare for next ary report

SEQUENCE WINDOW \rightarrow SEQUENCES MODE

Pasive sequence

Clarity only expects Start signal, time of analysis is set on autosampler

Active sequence

Clarity sends a Ready signal to autosampler and waits for Start signal

AS control (Active sequence)

Autosampler injects according to SV, EV, IV and Inj. Volume in sequence table

$\textcircled{\ }$ SEQUENCE WINDOW \rightarrow OPTIONS

🔁 Agilent 7890 - Sequence Demo1 (MODIFIED)		
File Edit Sequence View Window Help 🔼	🕺 📈 🗷 🕥	
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Status Run SV EV I/V Sample ID	Sample Sample ISTD1 Sample Dilut.	Inj.Vol. File [µL] Name
	Sequence Options	×
Options are: - Active - Passive	Sequence Mode Active Idle Time before First Injection Idle Time 0 [min]	
	Run Lines	
	Counter (%n) Start at: 0 0 1	Format Automatically Manually
Initial value for %n	Reset when: Reset when: Reset when: Reset	
	Current Value	
Defines mode of	Calibration and Sequence Usage Calibration used as specified by user Clone on first recalibration (safe calibration usage) Standard Addition Measurement Calibration Bracketing	
calibration applied for the whole sequence	Description:	Cancel Help

$\textcircled{\ }$ SEQUENCE WINDOW \rightarrow IMPORT

63	Agilent 7890 - Sec	uence Noname	(MODIFIED)	Import Sequence Step 1									
File	Edit Sequence New Open Save Save As	View Window Ctrl+N Ctrl+O Ctrl+S Ctrl+Shift+S	Help	File Name C:\Clarity\ Delimiter <tai Preview:</tai 	∖DataFiles∖ B>	DEMO1\Seq	uence.txt Decimal Delimiter I First Row Is Hea	, <coi< th=""><th>/MA></th><th></th><th>Select the file to import</th></coi<>	/MA>		Select the file to import		
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P SEQUENCE WINDOW \rightarrow FILL SERIES

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SMART SOLUTION FOR LABORATORIES

...THANK YOU FOR YOUR TIME



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