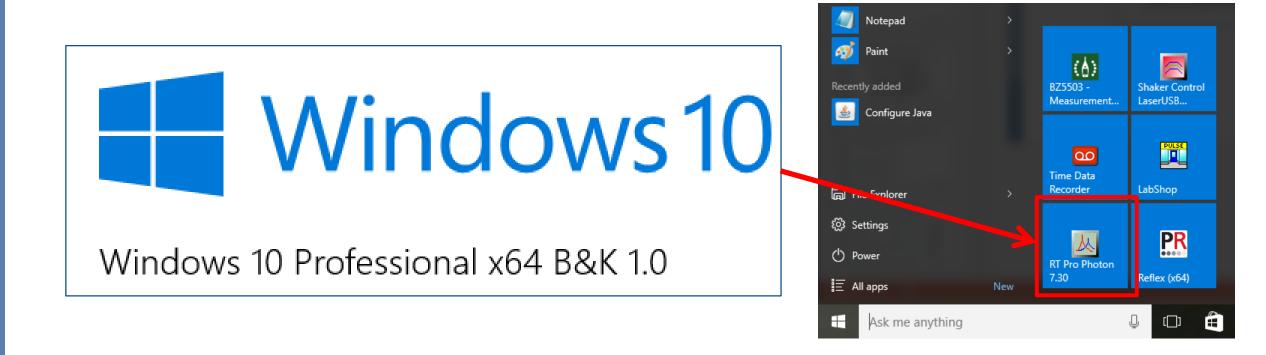
RT Pro for PHOTON+ What's New in 7.3?

This version is a maintenance release, which includes bug fixes and minor enhancements.



PC Requirements: Windows 10 compatibility

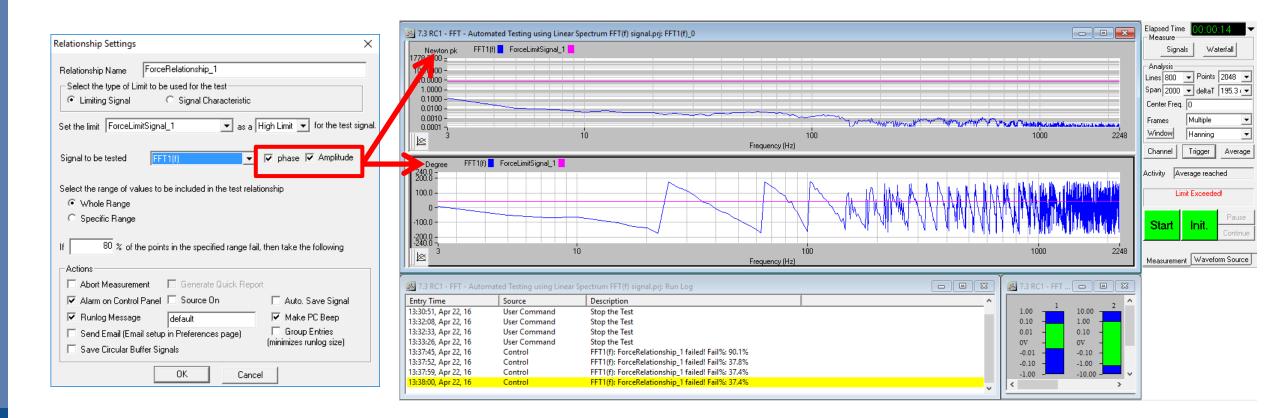
• RT Pro 7.3 is now factory tested for compatibility with Windows 10 Professional 64-bit.





Signal Analysis: Automated Testing Relationship improvement

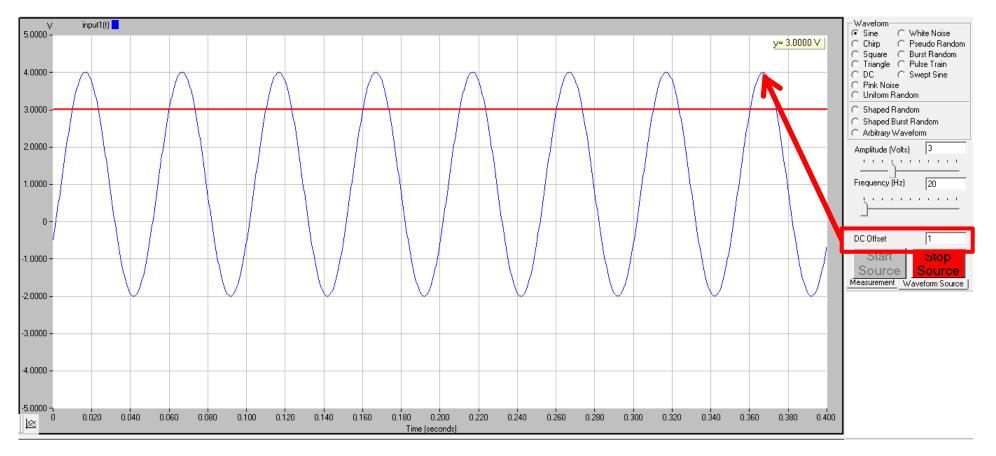
- Use of FFT(f) Amplitude and/or Phase for Automated Testing Relationships
 - Prior to 7.3, only Real and Imaginary data could be tested against.





Signal Analysis: Source/Generator DC offset parameter

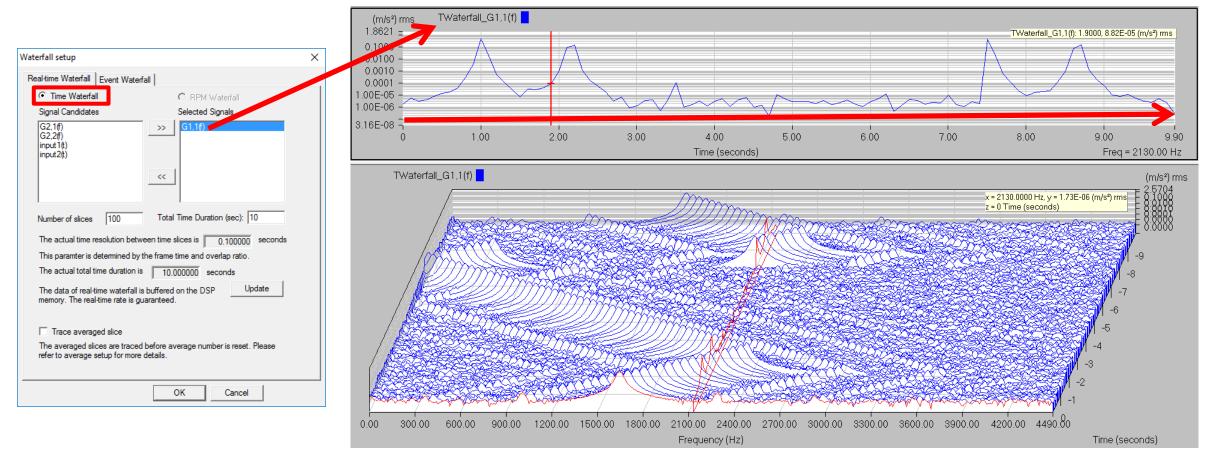
- "DC Offset" parameter now available on Waveform Source/Generator panel
 - Prior to 7.3, "DC Offset" could only be set within embedded menus and dialog boxes.





Signal Analysis: FFT Time Waterfall X Slice improvement

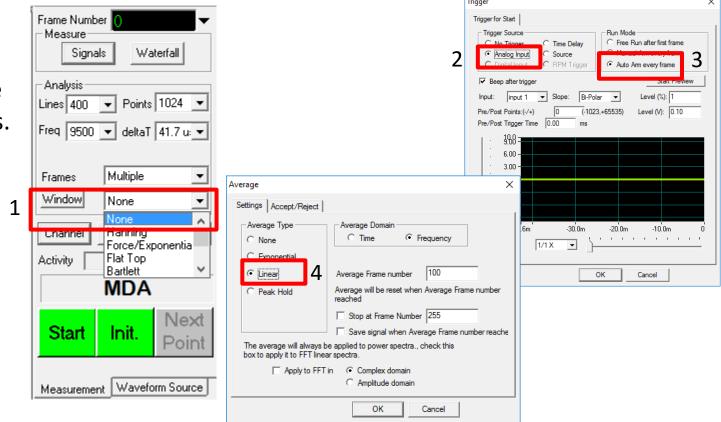
• Changed X Slice time data to scroll from left to right in FFT Time Waterfall to correlate with FFT Event Waterfall scrolling method





Modal Data Acquisition: Real-time and Playback improvements

- MDA project default settings tailored for modal and structural applications to enable immediate, "out of the box" measurements.
 - 1. Changed Measurement panel | Window function from "Hanning" to "None".
 - Changed Trigger | Trigger for Start | Trigger Source from "No Trigger" to "Analog Input" (for Real-time MDA) and from "No Trigger" to "File Input" (for Playback MDA).
 - 3. Changed Trigger | Trigger for Start | Run Mode from "Free Run" to "Auto Arm every frame".
 - 4. Changed Average | Settings | Average Type from "None" to "Linear".
 - Changed Channel Parameters | Inputs | Coupling from "AC" to "CCLD" (for Realtime MDA)





Swept Sine Measurement: Source/Generator DC offset

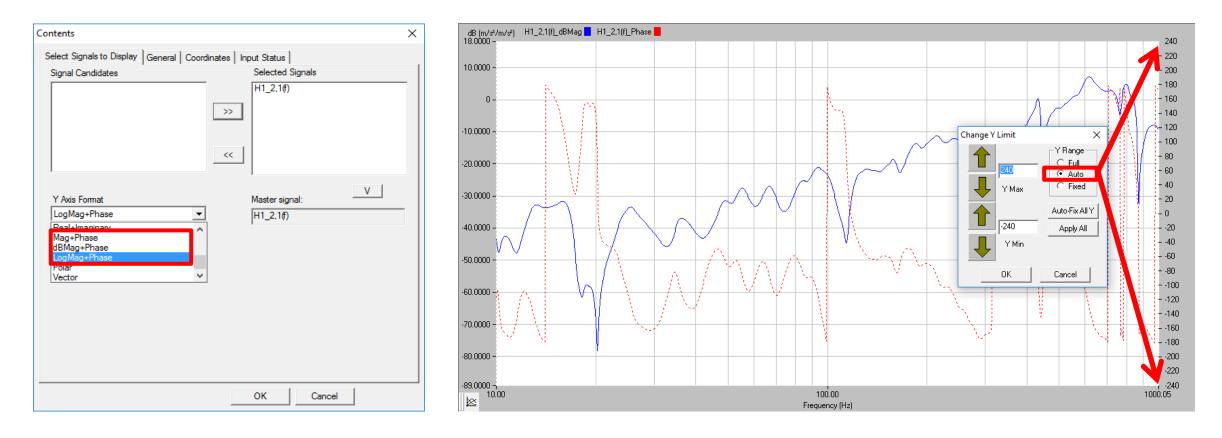
• "DC Offset" parameter now available in Sine Output Setup dialog (found within Setup menu) and synchronized with Waveform Source/Generator panel.

	Sweep Type		
Sine Output Setup		×	C Linear C Logarithmic
Sweep Type C Linear ⓒ Logarithmic	Low Frequency (Hz) :	20	Rate(Oct/Min): 5 Sweep Direction © Up © Down
Rate(Oct/Min): 5	High Frequency (Hz): Start Frequency (Hz):	2400	Low Frequency (Hz) : 20 High Frequency (Hz): 2400
Sweep Direction	DC Offset:	0	DC Offset: 0
©Up ⊂Down	Sweeps:	2	Sweeps: 2
C Output Profile	Duration (hh:mm:ss): Initial Output (Volts):	00:02:45	Duration (hh:mm:ss): 00:02:45 Initial Output (Volts): 0.001
Amplitude 1	ОК	Cancel	Amplitude (Volts)
			Measurement Waveform Source



Swept Sine Measurement: FRF phase auto scaling improvement

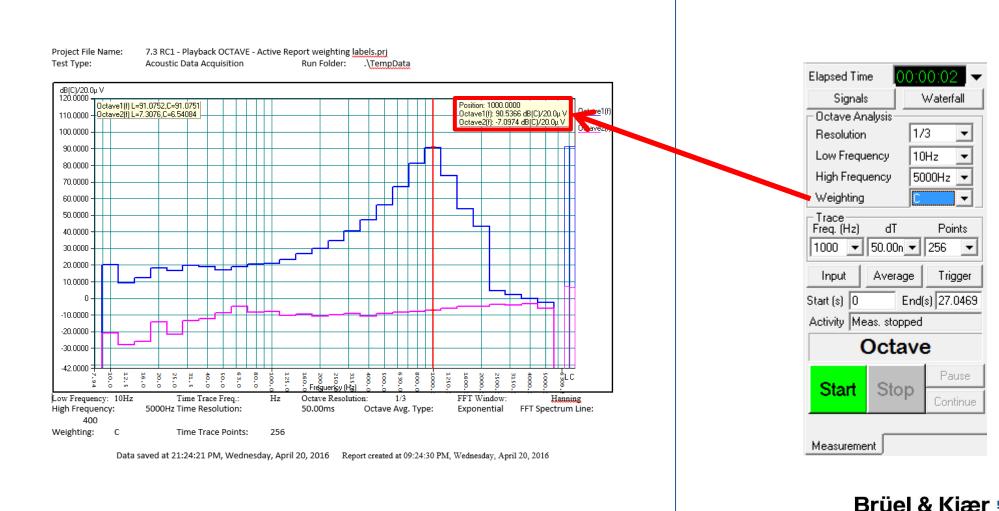
• FRF signals displayed in combined Y Axis Format (Amplitude and Phase) now has Phase auto scaling, with a consistent re-calculation of the Y scale





Active Report: Acoustic (Octave) Analysis weighting labels

• Weighting labels now included in Cursor readout boxes





Data Export: UFF format enhancements

Х

• Include **Channel Parameters "I.D."** label in the header of exported UFF files

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Cha	annel	MaxVo	olts	Quanti	ity	EU	mv/EU	Coupli	ng	Sensitivity Adjustment (dB)	I.D.	
⇒	1	10.0	•	Acce.	•	m/s²	10	CCLD	•	0.0000	100_+Z	
≫	2	10.0	•	Acce.	•	m/s²	10	AC	•	0.0000	101_+Z	
≫	3	10.0	•	Acce.	•	m/s²	10	AC	•	0.0000	102_+Z	
≫	4	10.0	•	Acce.	+	m/s²	10	AC	-	0.0000	103_+Z	

 Support saving Data Folder and File Path in row 6 of the header in the exported UFF files

Save Reca	ll Cache						
Signal Candi	dates						
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Data Format	UFF text format (SI Units)		✓ Signal Save S	Settings			
Group	S	ignal Name	Auto Save ?	Original Name			
- Ungroupe	d Sir						
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		101_+Z(t)	~	input2(t)			
		102_+Z(t)	~	input?			
		103_+Z(t)	✓	inp4(t)			
	1	100_+Z_G(f)	v	1,1(f)			
		G2,1(f)	✓	G2,1(f)			
		H1_2,1(f)	✓	H1_2,1(f)			
<		Cab2 1/6		Cab2 1/A			
Saved Signals:	C:\Bruel and Kjaer\RT Pro Phot	ton 7.30\7.3 RC1 - FFT - Impact I	Hammer Measurement Channel ID La	abels(FFT)			
File Name		Size	Format	Date Created			
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		12	0	0	0	Accel	eration		m/s²						
		12	0	0	0	Accel	eration		m/s²						
		0	0	0	0	NONE			NONE						
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Channel Parameter Settings

Data Export: ASCII format enhancements

• Enable saving/exporting acceleration measurements in velocity or displacement unit when saved

Signal Save Settings \times Auto-Save Results Signal File Management Prompt Data Folder Signal Data File Naming Convention Append date and time to the signal name as file name Append increment number to the signal name as file name Starting increment number: Keep last sequence number as starting increment number. Use signal name as file name (signals may be over-written) -Waterfall Data Layout Type Layout data Layout data as a sheet as a query Complex Signal Export Format in ASCII File Real and Imag Mag and Phase Data In Unit Export to ASCII EUpk Dimension for acceleration signal when export to AS. Velocity Acceleration OK Displacement

in ASCII format

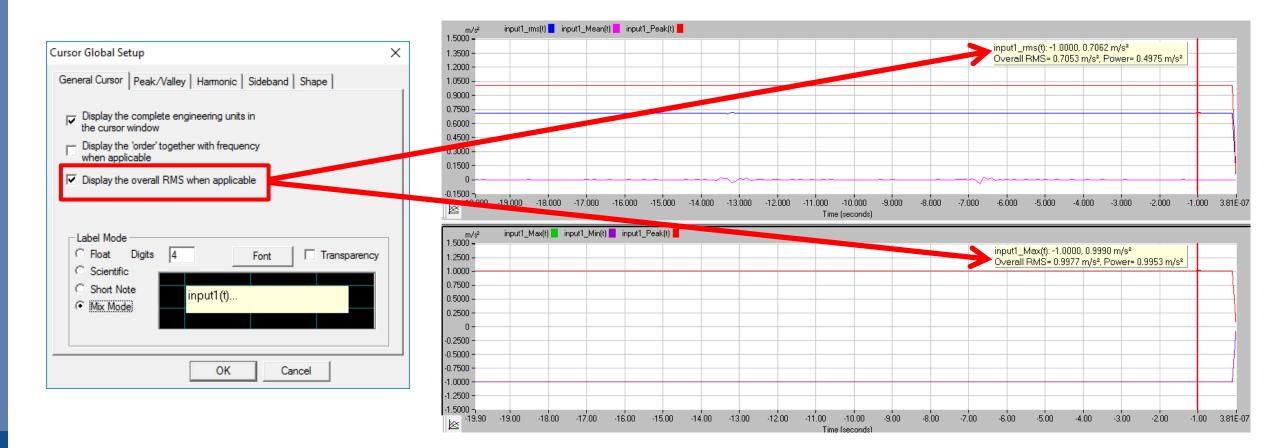
4535-B-accel-x(t) Apr 22, 2016 12-37-36.txt - Notepad File Edit Format View Help Header Length: 30 \$\$\$Note: Please do not modify this file if you want to import it by Brüel & Kjær software.\$\$\$ Generated from Brüel & Kjær RT Pro software. 4535-B-accel-x(t) Apr 22, 2016 12-37-44.txt - Notepad Version 7.3000 <u>File Edit Format View Help</u> Signal external name: 4535-B-accel-x(t) Signal internal name: input2(t) Header Length: 30 Data was generated at time: 12:36:39, April 22, 2016 \$\$\$Note: Please do not modify this file if you want to import it by Brüel & Kjær software.\$\$\$ Data was saved as file at time: 12:37:36, April 22, 2016 Generated from Brüel & Kjær RT Pro software. Data Type: Time History Version 7.3000 Signal format: ASCII Tab Delimited 'X-Y Pair' Signal external name: 4535-B-accel-x(t) Sampling Frequency: 5120 Hz Signal internal name: input2(t) Block size: 2048 Data was generated at time: 12:36:39, April 22, 2016 Window type: Hanning Data was saved as file at time: 12:37:44, April 22, 2016 Z axis size: 1 Data Type: Time History X axis start value: Signal format: ASCII Tab Delimited 'X-Y Pair' X axis increment (Delta): 0.0001953125 Sampling Frequency: 5120 Hz X axis increases by Linear step Block size: 2048 7 axis start value: 0 Window type: Hanning Z axis increment (Delta): 1 Z axis size: 1 Z axis increases by Linear step X axis start value: Excitation Channel: None X axis increment (Delta): 0.0001953125 Response Channel: Acceleration X axis increases by Linear step Z axis start value: 0 Octave band: -1 Octave Low Frequency: 0 Hz Z axis increment (Delta): 1 Z axis increases by Linear step Octave High Frequency: 0 Hz Excitation Channel: None Octave Weighting: Linear Response Channel: Acceleration Is RPM Signal: 0 Data Layout Type:Sheet Octave band: -1 Octave Low Frequency: 0 Hz Data Unit:2 Octave High Frequency: 0 Hz Data Unit Resolution:1.000000e-001 Octave Weighting: Linear Z axis index:0 Is RPM Signal: 0 Value = 0.000000e+000 Y(in/s) Data Layout Type:Sheet Data Unit:2 0.000000e+000 Data Unit Resolution:1.000000e-001 .953125e-004 4.393414e-005 Z axis index:0 3.906250e-004 5.917862e-005 Value = 0.000000e+000 5.859375e-004 6.756194e-005 Y(in) 7 010500-004 2 720/72 0.0.0000e+000 0.000000e+000 1.953125e-004 7.088631e-006 3.906250e-004 1.418304e-005 5.859375e-004 2.127976e-005

7.812500e-004 2.837435e-005



Cursors: Normal Cursor and Cursor Mark enhancements

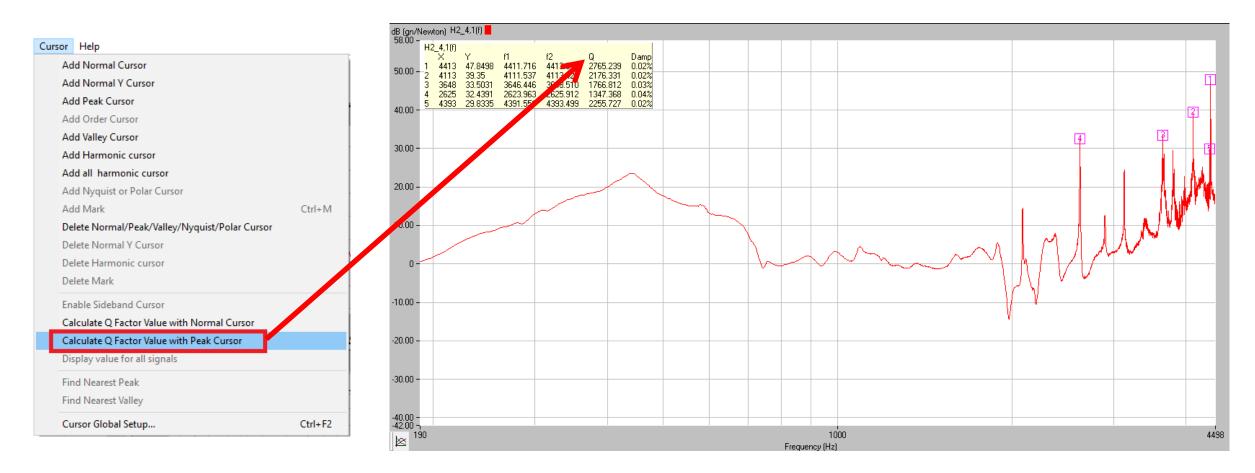
• Normal Cursor "Overall RMS" calculation and readout for Statistical Signals





Cursors: Peak Cursor enhancement

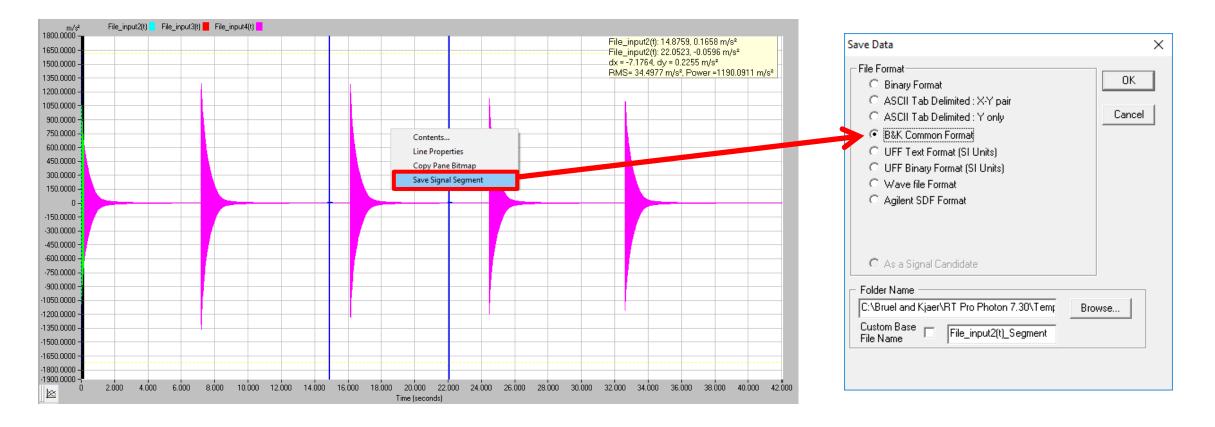
• Peak Cursor Q-Factor and Damping calculations and readout table for frequency domain signals





Playback: Save Signal Segment as B&K Common Format (.BKC)

• Bruel & Kjaer Common Format (.BKC) now supported by Save Signal Segment





Playback: Import general ASCII (.TXT) waveform data

- General, non-RT Pro generated ASCII (.TXT) files can now be imported by Playback
 - .CSV files are also now supported

