



EDM 11.0

Engineering Data Management Software Release Notes

SPIDER VIBRATION CONTROL SYSTEMS (VCS)
MULTIPLE-INPUT MULTIPLE-OUTPUT VIBRATION CONTROL SYSTEMS (MIMO VCS)
DYNAMIC SIGNAL ANALYSIS (DSA)
POST ANALYZER (PA)
EXPERIMENTAL MODAL ANALYSIS (EMA)
REMOTE CONDITION MONITORING (RCM)
TEMPERATURE, HUMIDITY, VIBRATION (THV)

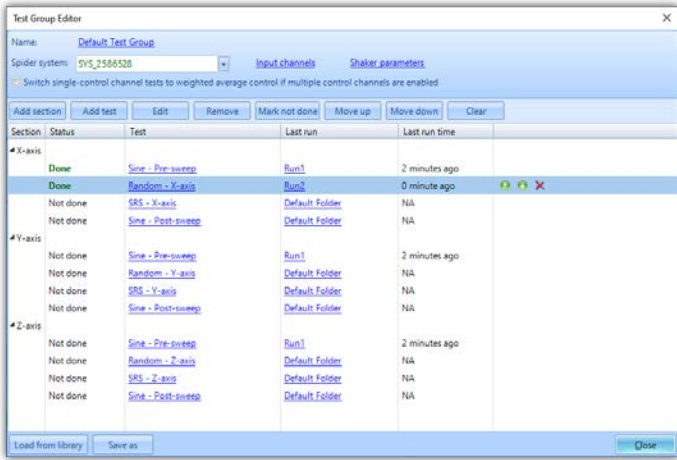


TABLE OF CONTENTS

RELEASE HIGHLIGHTS	3
Test Group	3
Report Builder	3
Signal Selection Redesign	3
Right-click Plot Menu Window Redesign	3
Transducer Calibration Software	4
Major Improvements	5
Report Feature Improvements	5
Signal Display Improvements	6
• Organized windows into new display tab	6
• Compare 3 sets of signals in Compare Mode	6
• Additional Peak Detection Criteria	6
• Layout “Import” & “Export” Tab UI	7
• Review Mode Layout Improvements	7
• Removing “Tolerance_” prefix & Abort and Alarm signals from legend	8
• Display settings remain when entering or exiting Compare mode and switching between tests	8
EDM Vibration Control Software	8
• File Directory Save Location UI	8
• Allows PC Math Signals to perform Division across different units	9
• Universal rule for Signal colors	9
• Sine Reduction: heterodyne modulation tracking filter	10
• Improvements in SoRRoR	10
• Improvements in Sine/RSTD/Multi-sine	10
• Improvements in Shock	11
• Improvements in TWR	11
EDM Dynamic Signal Analyzer	11
• Custom time weighting for acoustic octave tests	11
Post Analyzer	11
• PA export merge settings	11
• Updated FDS new project wizard information	11
• Data source tab in PA Measured Signals	12
General Improvements	12
• Recent Tests & Test Group right-click menu UI	12
• Clarify Sensitivity Plot Function	12
• Flexible frequency range when exporting to Excel	12
• Improved file explorer window to select test directory file path	12
• Cancelling Measured Signals	13
• Improved Run History Search Performance	13
EDM Temperature, Humidity, Vibration (THV) Control Software	13
EDM Cloud and EDM Mobile	14
Software Release History	15
System Requirements	15
Minimum system requirements:	15
Recommended system requirements (minimum for Spider systems higher than 16 channels):	15
Version Compatibility	15

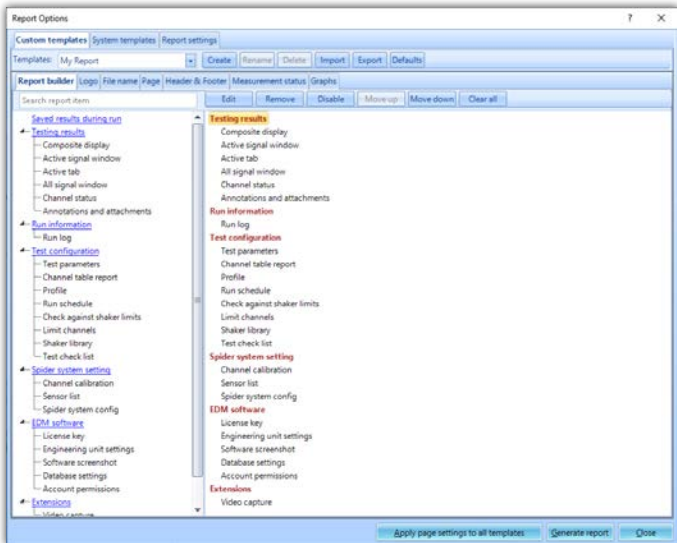
RELEASE HIGHLIGHTS

Test Group



- New organization feature for arranging a list of tests to be completed
- Group tests to different sections for different phases or test configurations
- Tests can be marked as completed or not by the operator
- “Input Channel” table and “Shaker Parameter” settings are shared and carried over between subsequent tests, when Test Group is enabled. Any change is applied to all tests in the group.

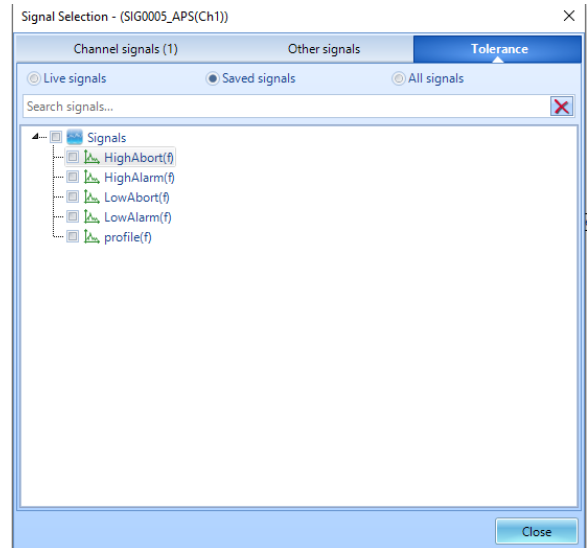
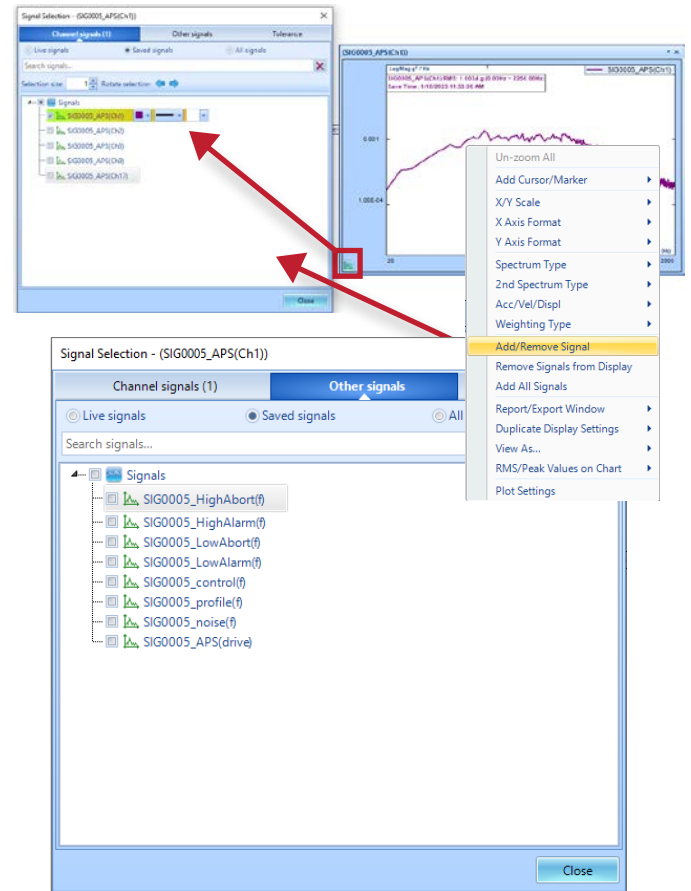
Report Builder



- Improved Report template system allowing further customization of report item content.
- The order of report items is customizable.
- Improved “Report this Run” capability to preview and use a preset Report template.
- Ability to report previous signals and test configurations.
- Ability to report saved signals of a selected run and test configurations.
- Click button to generate reports.

Signal Selection Redesign

An improved user interface allows users to select and configure signals through a signal selection window instead of a right-click menu. This update is part of the right-click plot menu redesign to declutter and improve UI navigation.

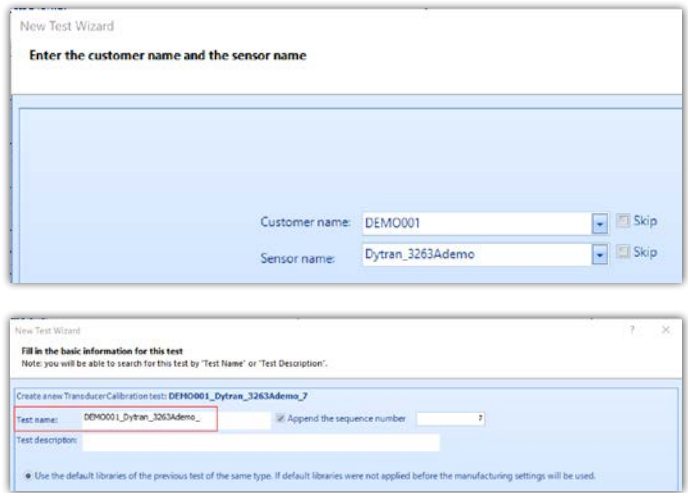


Right-click Plot Menu Window Redesign

Improved the right-click Plot menu window by organizing buttons into groups. Users are provided with improved control to select and configure signals and plot settings.



- Sensor and customer names can be included in the test name.



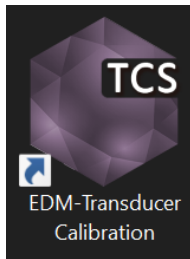
- Easy channel setup. Consistent with all EDM applications.

On/Off	Channel type	Location ID	Measurement quantity	Engineering unit	Sensitivity	Input mode	Sensor	Max. sensor range	High-pass filter fc (Hz)
On	Control	REF	Acceleration		10.7096 (mV/g)	RPE	User Def...	20.0000 (g)	0.5000
On	Monitor	TUT	Acceleration		100.0000 (mV/g)	RPE	User Def...	20.0000 (g)	0.5000
Off	Monitor	CH3	Acceleration		100.0000 (mV/g)	1-C Single End	User Def...	20.0000 (g)	0.5000

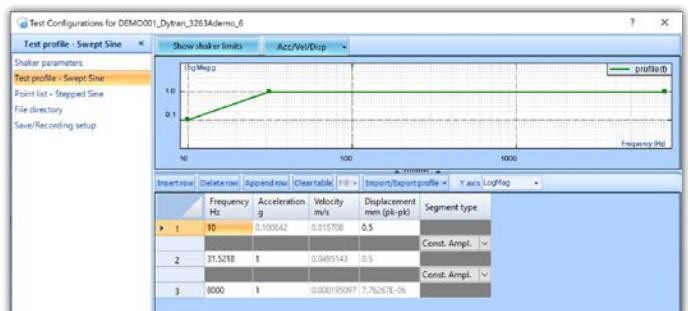
- Parameters of calibration
- Calibration Sensitivity setup
- Frequency Response measurement after calibration, available methods are Step Sine and Swept Sine.

Transducer Calibration Software

Transducer calibration software is a new EDM application designed for calibrating and testing transducers. It requires a shaker, a controller, and a reference transducer to complete the task. The software allows the user to input a specific vibration profile, after which it compares the output of the transducer under test to the reference. The sensitivity of the transducer can then be adjusted accordingly to ensure that the measurement falls within the desired range and accuracy. The software is compatible with a wide range of transducers, provided the Spider hardware supports it.



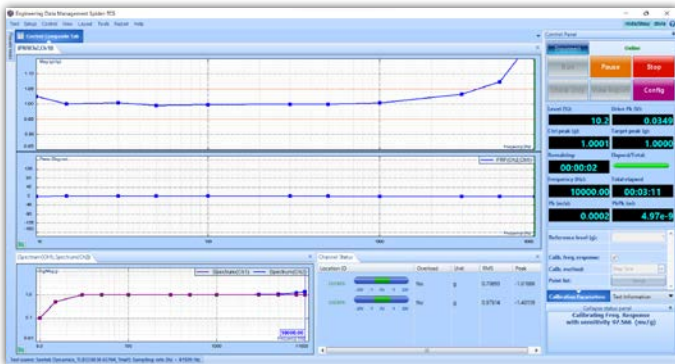
- Configurable profile for Swept Sine FRF measurement



- Configurable frequency points for Step Sine FRF measurement

Point list - Stepped Sine	Insert row	Delete row	Append row	Import/Export list
Shaker parameters				
Test profile - Swept Sine				
Point list - Stepped Sine	1	10	0.1	
File directory	2	15	0.5	
Save/Recording setup	3	30	1	
	4	50	1	
	5	100	1	
	6	300	1	
	7	500	1	
	8	1000	1	
	9	3000	1	
	10	5000	1	
	11	8000	1	

- FRF measurement graph



- Multi-test management. Each test can be for different sensor models.

The 'Recent tests' window shows a list of tests with columns for 'New', 'Open', 'Properties', and 'Delete'. The tests listed are:

- DEMO001_Dytran_3263Ademo_6
- System (SYS_2581120)
- MO6758_Dytran_3263A_5
- MO6758_Dytran_3263A_4
- MO6755_Dytran_3263A_
- MO6751_Dytran_3263A

- Multi-run management. Each run can be for a different sensor of the same model.

The 'Run Folders' window shows a tree view of test runs. The root folder is 'Run10 Jan 19, 2023 11-19-35'. It contains several sub-folders and files:

- SIG0010 Jan 19, 2023 11-23-41
- TimeHistory0042 Jan 19, 2023 11-19-56
- SIG0009 Jan 19, 2023 11-19-50
- TimeHistory0041 Jan 19, 2023 11-19-35
- Run9 Jan 19, 2023 11-19-06
- Run8 Jan 19, 2023 11-18-17
- Run7 Jan 17, 2023 15-04-50
- Run6 Jan 17, 2023 14-07-20
- Run5 Jan 17, 2023 14-06-14
- Run4 Jan 17, 2023 14-05-40
- Run3 Jan 17, 2023 14-00-41
- Run2 Jan 17, 2023 14-00-21
- Run1 Jan 16, 2023 11-33-20
- Default Folder Jan 16, 2023 11-32-06

MAJOR IMPROVEMENTS

Report Feature Improvements

Report Headers are customizable. Two new options to hide or display information previously required in reports.

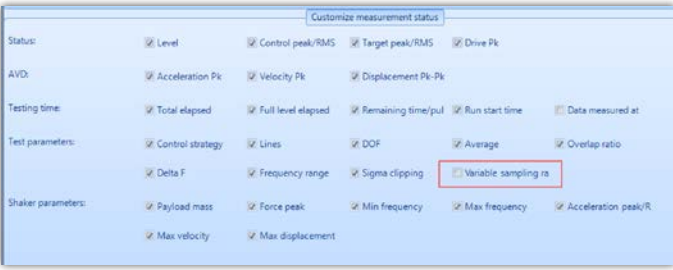
The report customization dialog box includes the following sections:

- Text font:** Font: Segoe UI, Size: 10.5, Bold (B), Italic (I), Underline (U), Text color (A).
- Page orientation:** Portrait (selected), Landscape.
- Page size:** Letter (selected), A4, B4.
- Pagination:**
 - Start each report item on new page
 - Put each display on new page
 - Only display title, without descr
- Page margins:**
 - Top (cm): 2.54
 - Bottom (cm): 2.54
 - Right (cm): 1.27
 - Left (cm): 1.27
 - Header from top (cm): 1.27

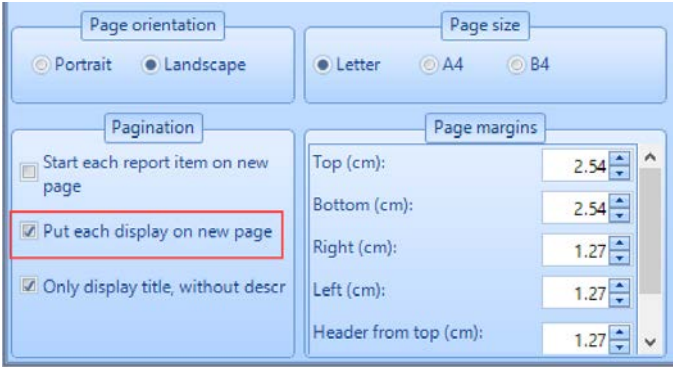
The 'Display location' dialog box includes the following sections:

- Display location:**
 - Top of report
 - Below control composite
 - Below all graphs
- Customize measurement status:**
 - Level
 - Control peak/RMS
 - Target peak/RMS
 - Drive Pk
- AVD:**
 - Acceleration Pk
 - Velocity Pk
 - Displacement Pk-Pk
- Testing time:**
 - Total elapsed
 - Full level elapsed
 - Remaining time/pt
 - Run start time
 - Data measured at
- Test parameters:**
 - Control strategy
 - Lines
 - DCF
 - Average
 - Overlap ratio
 - Delta F
- Shaker parameters:**
 - Frequency range
 - Sigma clipping
 - Variable sampling ra
 - Payload mass
 - Force peak
 - Min frequency
 - Max frequency
 - Acceleration peak/R
 - Max velocity
 - Max displacement

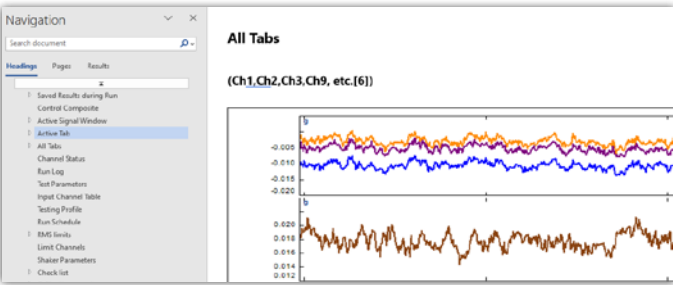
- The variable sampling rate setting is included in reports.



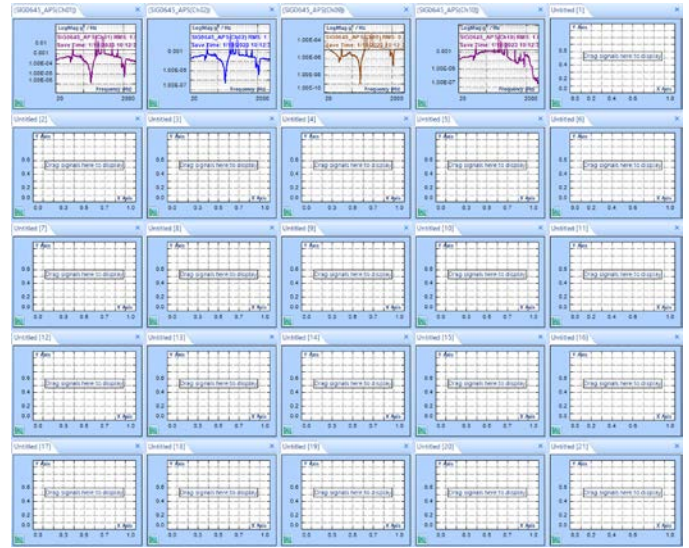
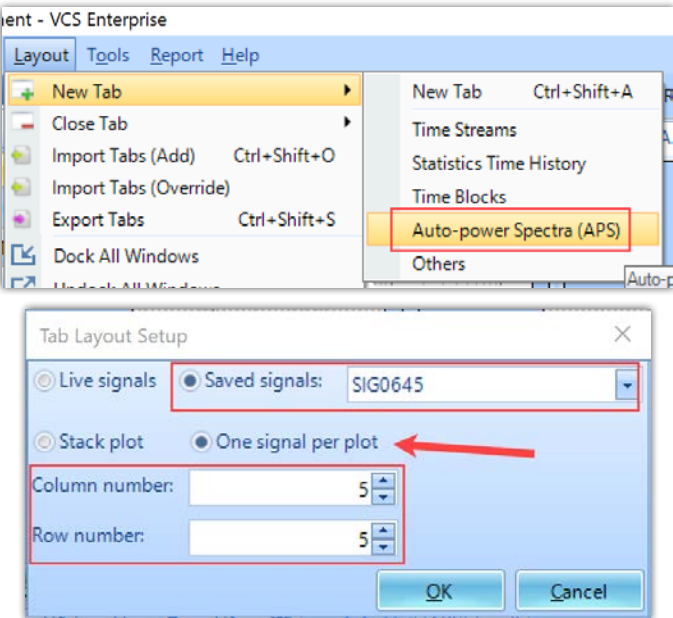
- The option to "Put each display on new page" is now functional for reports generated in Review/Compare mode.



- Changed "All Views" to "All Tabs" for consistency.



Signal Display Improvements
Organized windows into new display tab



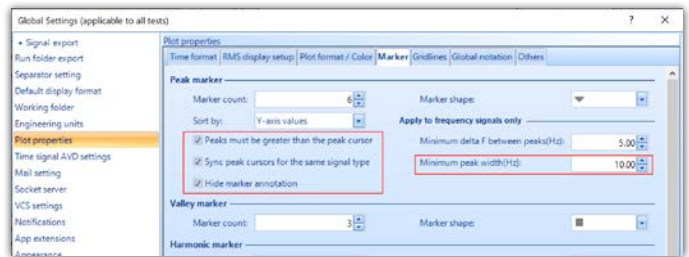
Compare 3 sets of signals in Compare Mode

In Compare Mode, pin the selected signal in the display and select another signal. The same signal for up to 3 files or runs can be compared.

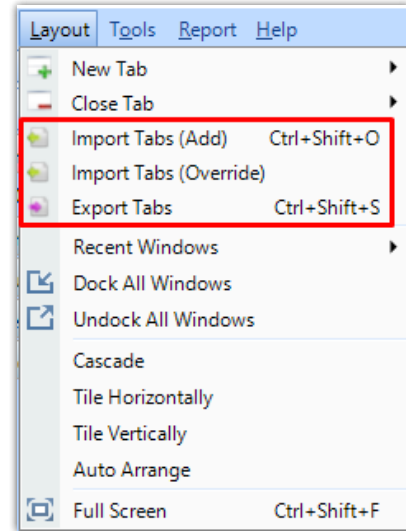
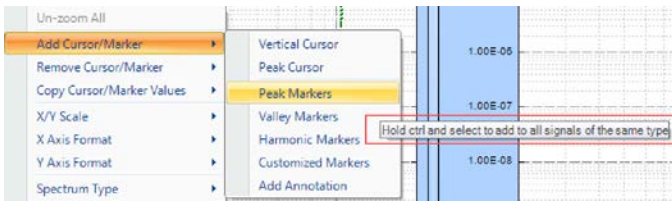


Additional Peak Detection Criteria

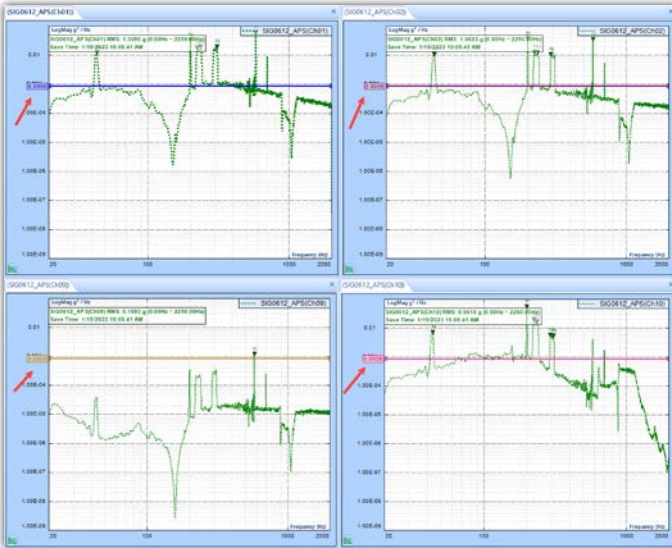
- Peaks must be greater than the peak/horizontal cursor.
- Hides or displays the marker annotation for a cleaner signal display.
- Set the minimum peak width and minimum distance between peaks.



- Peak cursor can be added simultaneously to multiple plots.



- Peak cursor can be moved in sync across multiple plots.



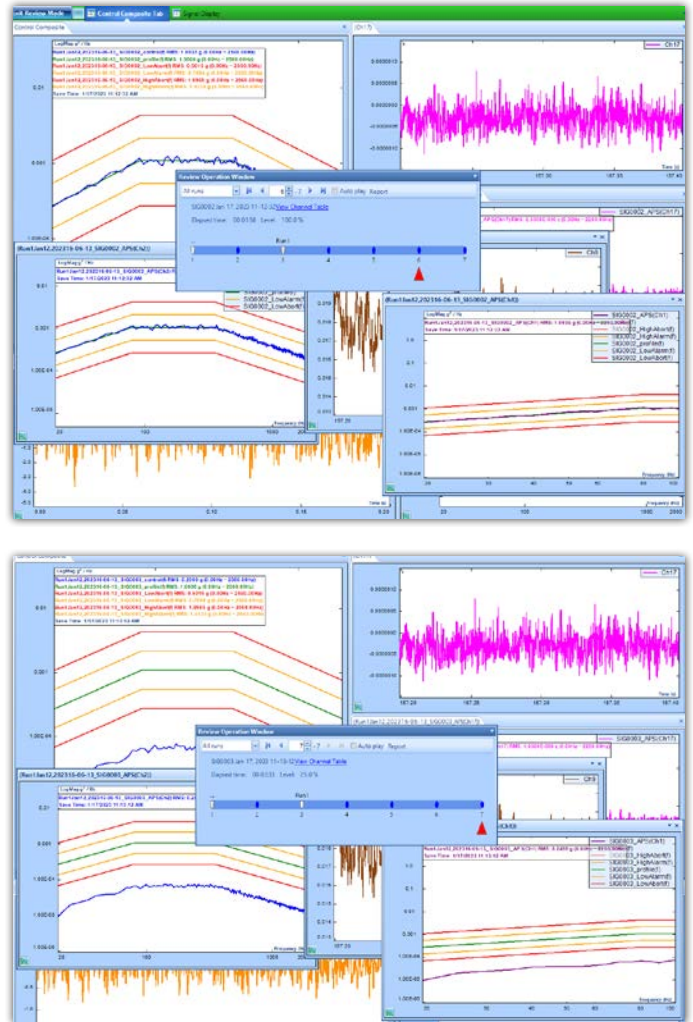
Review Mode Layout Improvements

Improvements to Review mode are consistent with the Normal mode layout. Users can switch between runs when entering and exiting Review mode.

- The peak marker table includes more information in reports.

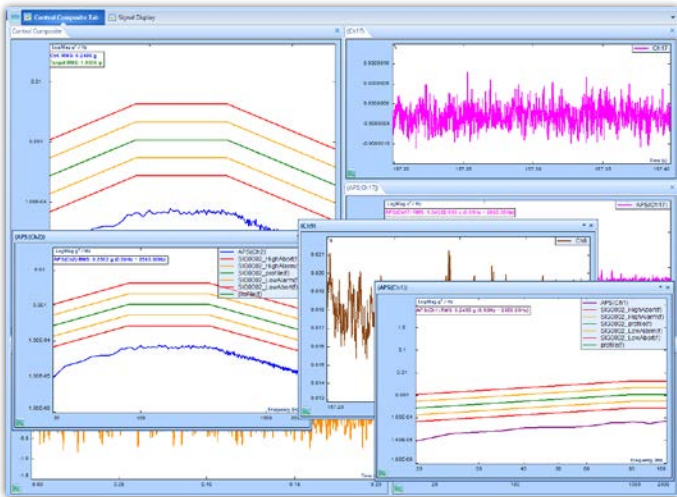
Active Tab
 (SIG0644_APS(CH01),Run11Jan19,202310-03-45_SIG0612_APS(CH01))

X (Hz)	Frequency	SIG0644_APS(CH01) Y LogMag g ² /Hz	X (Hz)	Frequency	Run11Jan19,202310-03-45_SIG0612_APS(CH01) Y LogMag g ² /Hz
P1	200.00	0.0811	580.00	0.0603	
P2	305.00	0.0383	200.00	0.0333	
P3	225.63	0.0190	308.75	0.0202	
P4	238.75	0.0185	236.25	0.0199	
P5	53.75	0.0146	223.75	0.0184	
P6	515.00	0.0131	43.75	0.0129	



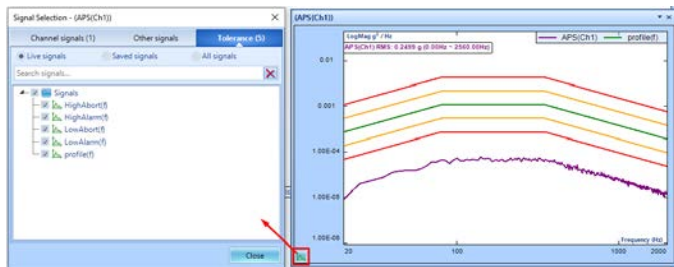
Layout "Import" & "Export" Tab UI

The Layout menu for importing and exporting displayed signal tabs is improved to provide clarification.



Removing "Tolerance_" prefix & Abort and Alarm signals from legend

Removal of the prefix "Tolerance_" from tolerance signals and the tolerance signals itself from legends to increase available space.



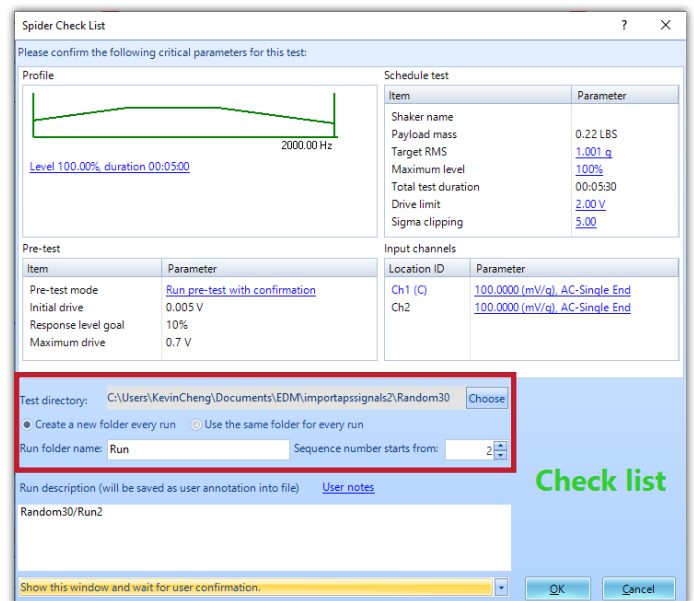
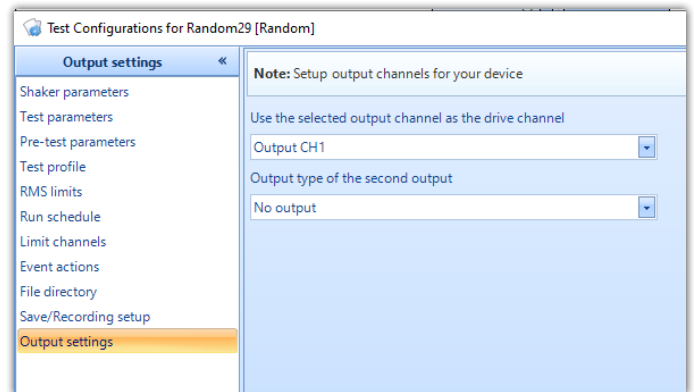
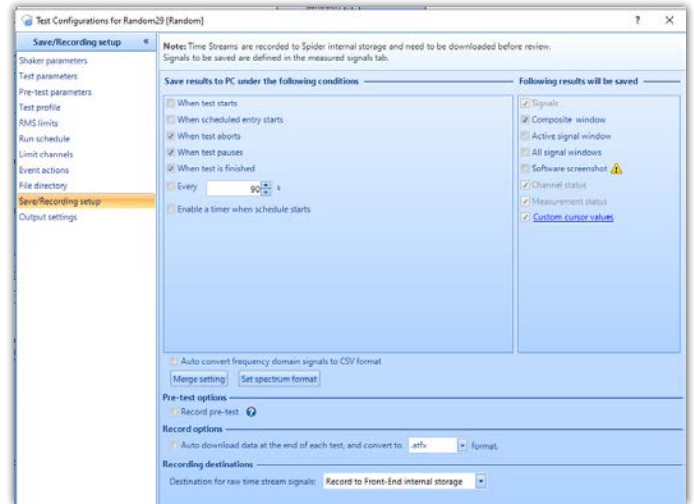
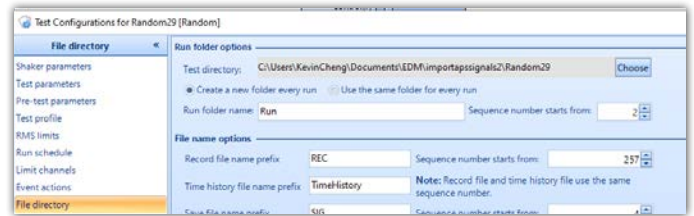
Display settings remain when entering or exiting Compare mode and switching between tests

The following display settings will remain when entering or exiting Compare mode and switching between tests. The same settings can be copied and pasted to all identical signal type display windows.

- Range, format, and spectrum type of the horizontal axis and the second horizontal axis
- Range and format of the vertical axis
- Annotations
- Peak markers
- Positions of vertical cursors, peak cursors, and markers
- Plot signal colors, plot line type
- Display window name and display tab name

EDM Vibration Control Software File Directory Save Location UI

The location of test files and run folders saved in the computer file system is clarified with more control over the run folder label in various areas of EDM. Users can save test results to a folder with a specified label instead of Default Folder.



Test Properties

Name: Random30

Description:

Created at: 1/17/2023 2:45:03 PM

Modified at: 1/17/2023 2:45:50 PM

Last run time: 1/17/2023 2:45:23 PM

Spider system: SYS_2590976

Created version: 11.0.0.0

Last run version: 11.0.0.0

Run folder options

Test directory: C:\Users\KevinCheng\Documents\EDM\importapsignals2\Random30

Create a new folder every run Use the same folder for every run

Run folder name: Run Sequence number starts from: 2

Lock test View Spider change log OK Cancel

Run folder options

Test directory: C:\Users\KevinCheng\Documents\EDM\sqlite3\FFT32

Create a new folder every run Use the same folder for every run

Run folder name: Run Sequence number starts from: 2

Allows PC Math Signals to perform Division across different units

Math signals computed in the EDM software can now perform division across different units, such as Acceleration / Voltage, Acceleration / Force, etc.

Input Channels for Random30 (VCS\Random30)

On/Off	Location ID	Measurement quantity	Engineering unit	Input range	Sensor	Max. sensor range	Channel type	Input mode	Sensitivity	Hi/Low
<input checked="" type="checkbox"/>	Ch1	Acceleration	g	Full	User Defin...	20.0000 (g)	Control	AC-Single End	100.0000 (mV/g)	Off
<input checked="" type="checkbox"/>	Ch2	Voltage	V	Full	User Defin...	20.0000 (V)	Member	AC-Single End	100.0000 (mV/V)	Off
<input checked="" type="checkbox"/>	Ch3	Force	N	Full	User Defin...	20.0000 (N)	Member	AC-Single End	100.0000 (mV/N)	Off
<input checked="" type="checkbox"/>	Ch4	Voltage	V	Full	User Defin...	20.0000 (V)	Member	AC-Single End	100.0000 (mV/V)	Off
<input checked="" type="checkbox"/>	Ch5	Time	s	Full	User Defin...	20.0000 (s)	Member	AC-Single End	100.0000 (mV/s)	Off
<input checked="" type="checkbox"/>	Ch6	Force	N	Full	User Defin...	20.0000 (N)	Member	AC-Single End	22.4000 (mV/Newt...)	Off
<input checked="" type="checkbox"/>	Ch7	Voltage	V	Full	User Defin...	20.0000 (V)	Member	AC-Single End	30.0000 (mV/V)	Off
<input checked="" type="checkbox"/>	Ch8	Force	N	Full	User Defin...	20.0000 (N)	Member	AC-Single End	11.24045 (mV/Newt...)	Off

Compute Signals using Math Functions

Press Add button to create a new signal. For example, to compute the difference between channel1 and channel2, select Operand1=ch1, Operand2=ch2, and Operator=Minus.

Signal list: APS(Ch1)/APS(Ch2), APS(Ch1)/APS(Ch4), APS(Ch1)/APS(Ch6), APS(Ch1)/APS(Ch7), APS(Ch1)/APS(Ch8), APS(Ch2)/APS(Ch1), APS(Ch8)/APS(Ch5)

Signal Name: APS(Ch8)/APS(Ch5)

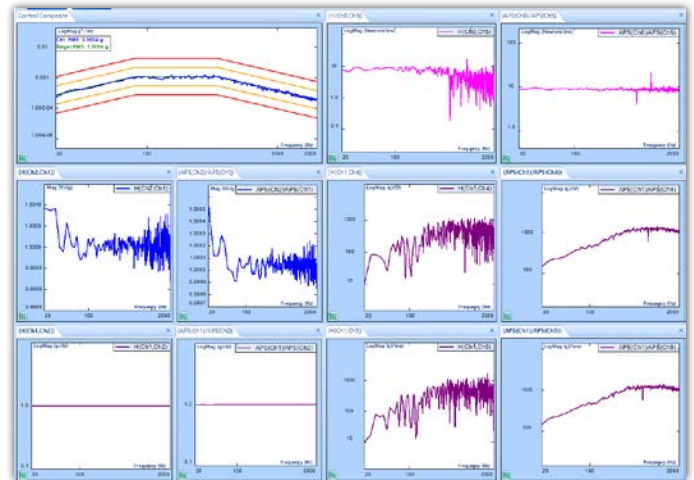
Operand1: APS(Ch8) Operator: / Operand2: APS(Ch5)

Calculate signal by display value

Delete All Delete Add OK Cancel

Measured Signals Setup

Signal name	Measure	Save list	Signal color	Operand1	Operator	Operand2	Delete	Edit	Save destination
001 APS(Ch1)/APS(Ch2)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		APS(Ch1)	Divide by	APS(Ch2)	X		PC
002 APS(Ch1)/APS(Ch4)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		APS(Ch1)	Divide by	APS(Ch4)	X		PC
003 APS(Ch1)/APS(Ch5)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		APS(Ch1)	Divide by	APS(Ch5)	X		PC
004 APS(Ch1)/APS(Ch7)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		APS(Ch1)	Divide by	APS(Ch7)	X		PC
005 APS(Ch1)/APS(Ch8)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		APS(Ch1)	Divide by	APS(Ch8)	X		PC
006 APS(Ch2)/APS(Ch1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		APS(Ch2)	Divide by	APS(Ch1)	X		PC
007 APS(Ch2)/APS(Ch1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		APS(Ch2)	Divide by	APS(Ch1)	X		PC
008 APS(Ch8)/APS(Ch5)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		APS(Ch8)	Divide by	APS(Ch5)	X		PC



Universal rule for Signal colors

Signal colors are now selected from the Measured Signal or Signal Selection window.

Measured Signals Setup

Signal name	Measure	Save/Record list	Signal color	Save/Recording destination
001 Ch1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		FLASH
002 Ch2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		FLASH
003 Ch4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		FLASH
004 Ch5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		FLASH
005 Ch6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		FLASH
006 Ch7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		FLASH
007 Ch8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		FLASH
008 drive	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		FLASH
009 Block(Ch1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		PC
010 Block(Ch2)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		PC
011 Block(Ch4)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		PC
012 Block(Ch5)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		PC
013 Block(Ch6)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		PC
014 Block(Ch7)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		PC
015 Block(Ch8)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		PC

Signal Selection - Control Composite

Channel signals Other signals (6) Tolerance

Live signals Saved signals All signals

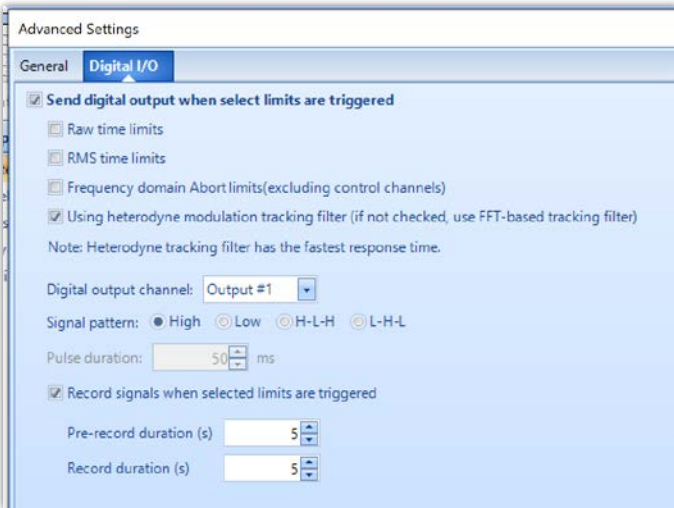
Search signals...

Signals:

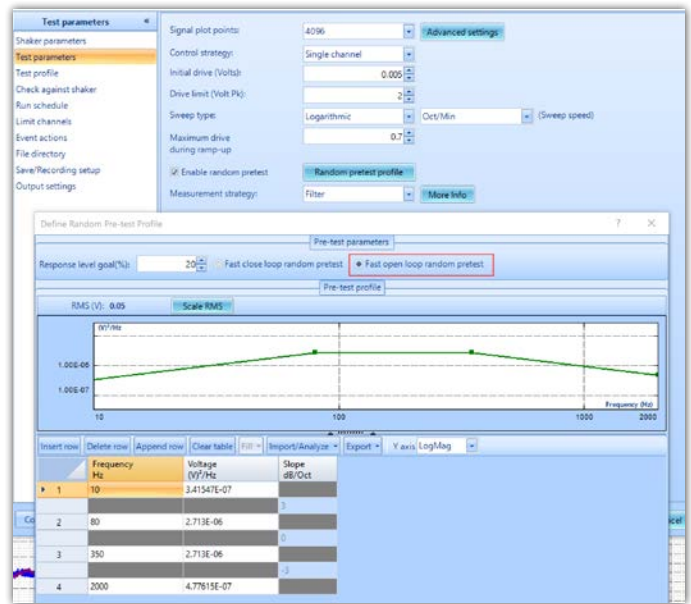
- HighAbort(f)
- HighAlarm(f)
- LowAbort(f)
- LowAlarm(f)
- APS(drive)
- control(f)
- profile(f)
- noise(f)

Sine Reduction: heterodyne modulation tracking filter

Heterodyne modulation tracking filter is used to trigger a digital output for a shutdown system.



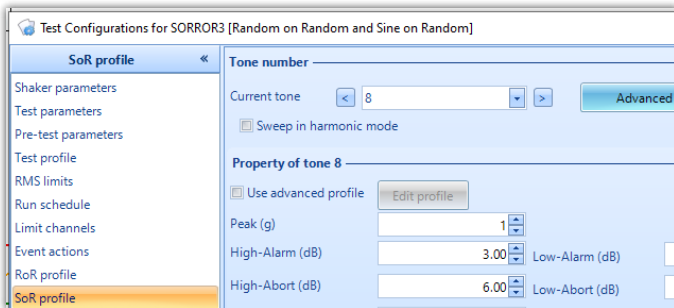
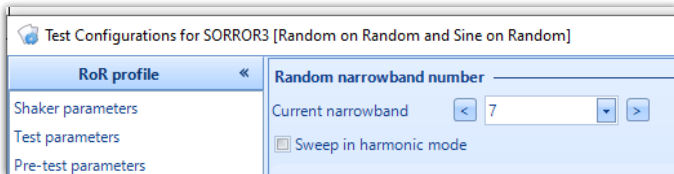
- Open loop Random pre-test added to Sine test types



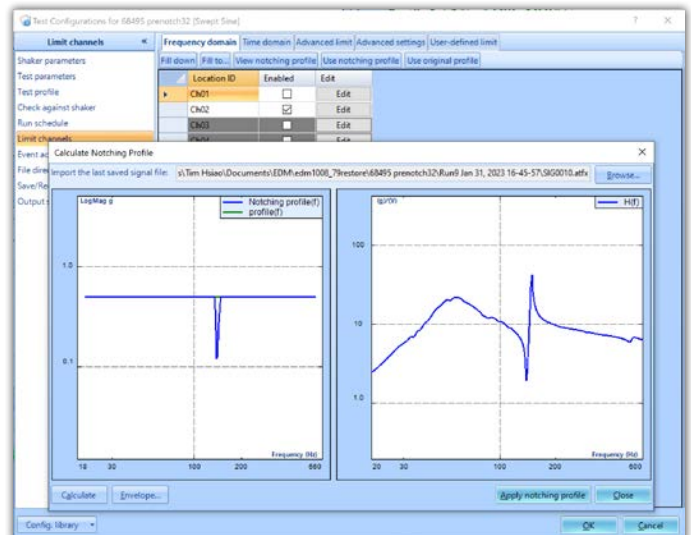
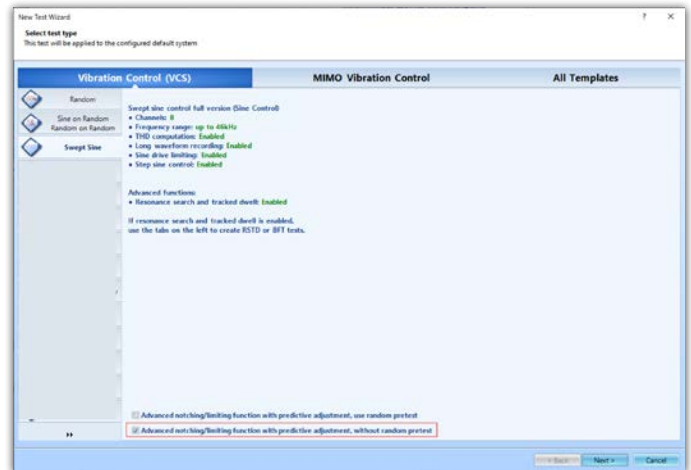
Improvements in SoRRoR

SoR & RoR Profile Next & Previous buttons

“Next” and “Previous” buttons allow users to quickly cycle through SoR & RoR bands.

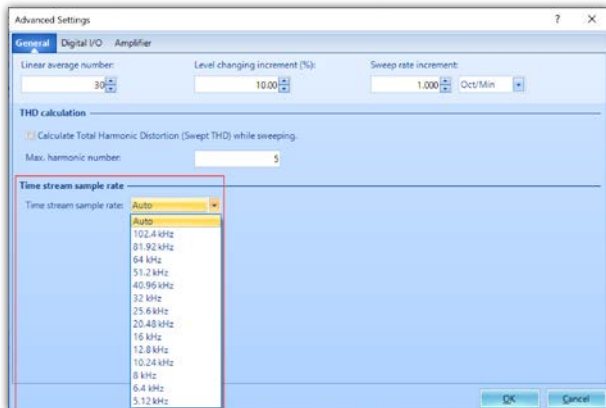


- Sine predictive notching with previously saved transfer function



Improvements in Sine/RSTD/Multi-sine

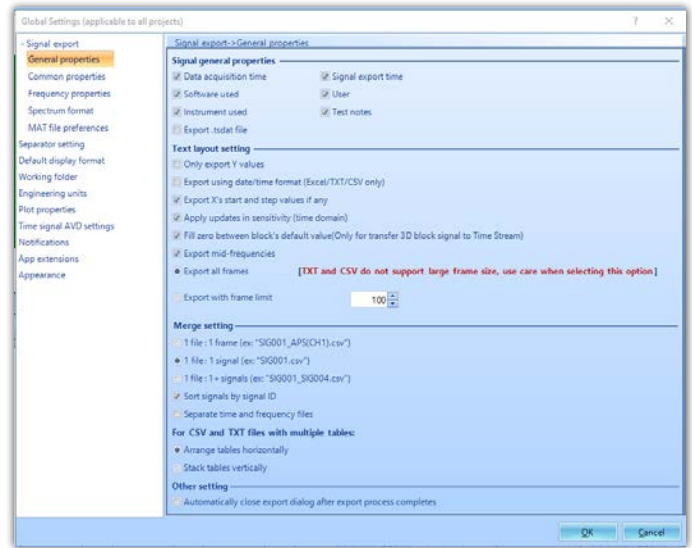
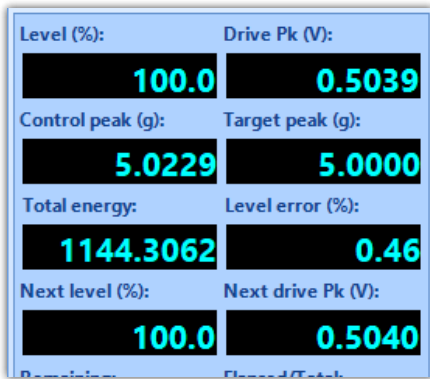
EDM provides sample rate options up to the hardware maximum and down to the 2.27 times of the profile range.



Improvements in Shock

Displays Total Energy instead of RMS.

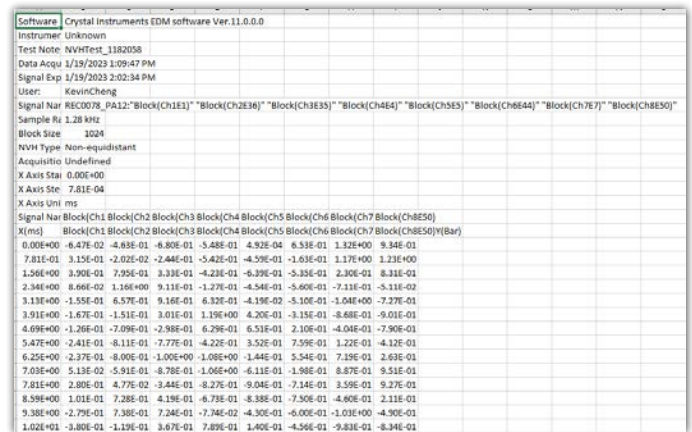
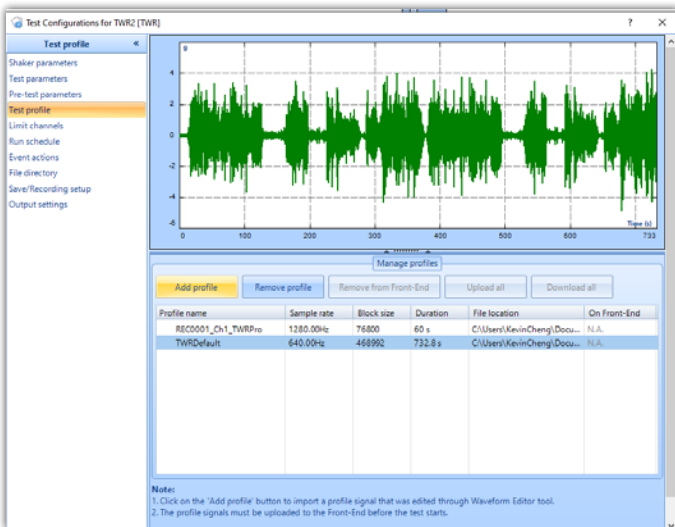
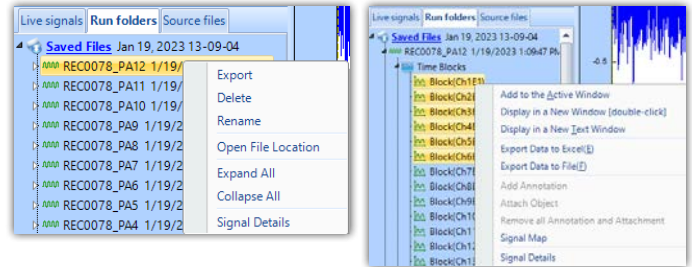
Displays the total energy of the test instead of the RMS measurement for transient process tests.



Improvements in TWR

TWR Test Profile UI (buttons relocated)

The buttons in TWR are relocated above the profile tables to provide a vertically consistent interface.



EDM Dynamic Signal Analyzer

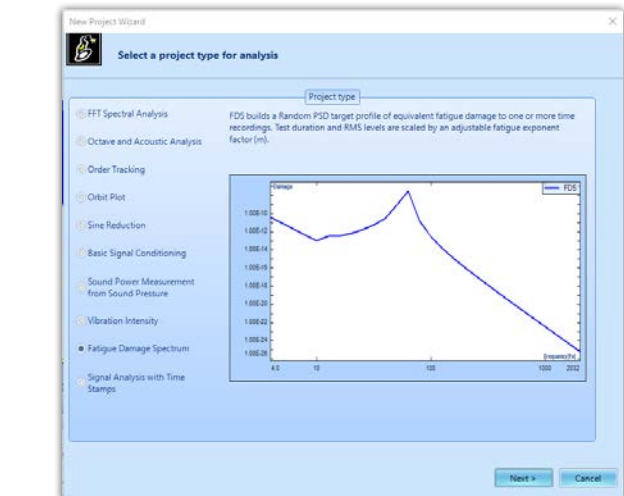
Custom time weighting for acoustic octave tests

Custom time weighting for acoustic octave tests has a new value input.

On/Off	Sensitivity	Input mode	Input range	Time weighting	Time interval	Max. sensor range	Integration / Differentiation	Customized Time Weighting
On	3000.00000 (mV/g)	DC-Single End	Auto	Customized	10	20,000.0 (V)	No Integration	60.000
On	3.40000 (mV/(µm/s²))	DC-Single End	Auto	10(Slow)	10	20,000.0 (V)	No Integration	N/A
On	300.00000 (mV/µm)	DC-Single End	Auto	0.125(Fast)	10	20,000.0 (V)	No Integration	N/A
On	300.00000 (mV/µm)	DC-Single End	Auto	0.125(Fast)	10	20,000.0 (V)	No Integration	N/A
On	300.00000 (mV/µm)	DC-Single End	Auto	0.125(Fast)	10	20,000.0 (V)	No Integration	N/A
On	300.00000 (mV/µm)	DC-Single End	Auto	0.125(Fast)	10	20,000.0 (V)	No Integration	N/A
On	300.00000 (mV/µm)	DC-Single End	Auto	0.125(Fast)	10	20,000.0 (V)	No Integration	N/A
On	300.00000 (mV/µm)	DC-Single End	Auto	0.025(Medium)	10	20,000.0 (V)	No Integration	N/A

Updated FDS new project wizard information

The FDS new project wizard information is updated.



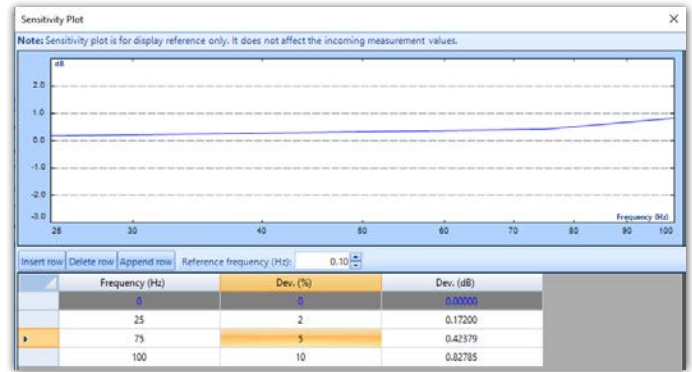
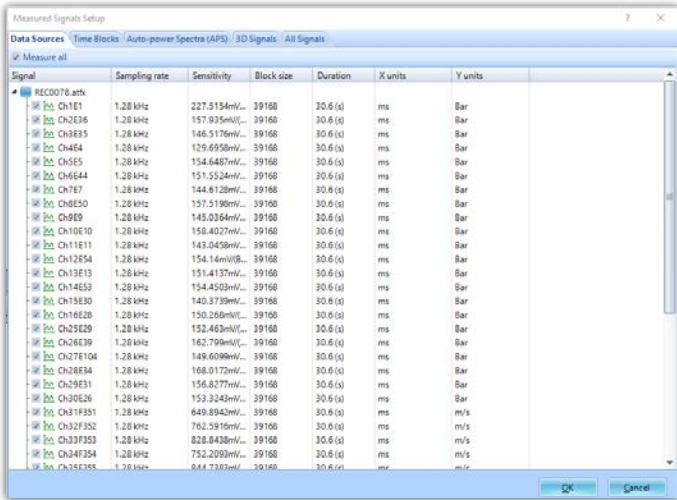
Post Analyzer

PA export merge settings

Additional export merge settings allow users to consolidate multiple files into one file.

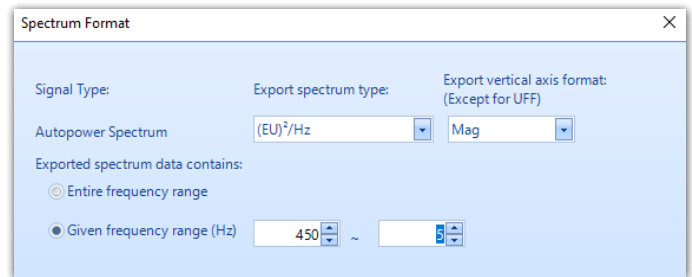
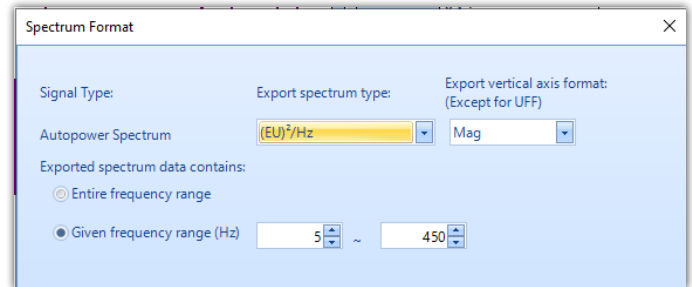
Data source tab in PA Measured Signals

New tab provided in Measured Signals contains a list of all data sources used in a current project that can be enabled or disabled.



Flexible frequency range when exporting to Excel

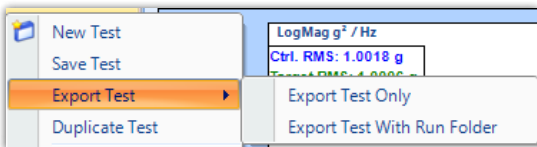
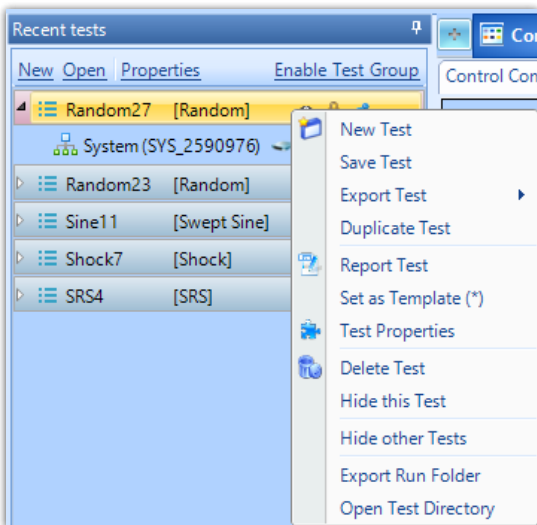
Flexible frequency range when exporting frequency domain signals to an Excel file, where either input can be the start to end or end to start.



General Improvements

Recent Tests & Test Group right-click menu UI

The right-click menu UI in the Recent Tests and Test Group windows now provides options to hide or export recent tests. Exporting a test only creates a new STK file and will not create a test in the database.



Clarify Sensitivity Plot Function

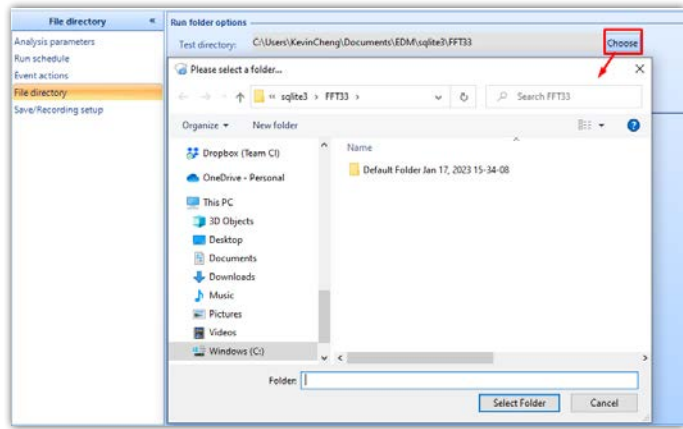
The sensitivity plot function in the sensor library is clarified as reference only. It does not affect the incoming measurement values.

Name	High-Pass frequency	Sensitivity plot	Last calibration	Calibration interval
New Sensor	2.0000(Hz)	Edit		365(Days)
3023A1-Z	0.0000(Hz)	Edit	5/8/2009 12:00:00 AM	365(Days)

X:Frequency	Y:Mag (μm) ² / Hz
25	2.05125E-06
50	7.74447E-11
75	2.04803E-06
100	8.18828E-06
125	2.04759E-06
150	2.78095E-11
175	1.85437E-12
200	3.59023E-13
225	1.57856E-13
250	1.18467E-13
275	8.04476E-14
300	7.22773E-14
325	7.57189E-14
350	8.82173E-14
375	8.77542E-14
400	9.56152E-14
425	4.59065E-14
450	5.41691E-14

Improved file explorer window to select test directory file path

An improved comprehensible file explorer window allows users to easily select a test directory file path.

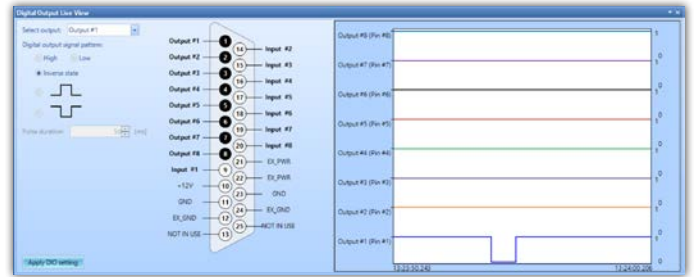


EDM Temperature, Humidity, Vibration (THV) Control Software

Digital Output View implemented in THV and DSA.

Digital Outputs now offers a live view in the EDM signal display. This feature allows users to:

- Display all pin numbers of the DB connector
- Display the current state of each digital output pin
- Display the state of each digital output pin over a given duration
- Manually set the output pulse or state of a digital output pin
- Set the display duration and color of each digital output signal



- Supports the new TH controller structure: PLC + Spider-101i, which is the fourth generation in the following table.

All generations of the TH controllers for STI chambers are listed in the following table.

	UI	Configurations and Data	Control	Chamber system monitoring	Monitoring gauges
1	THV/EDC	Spider	Spider	UMC PLC	Analog, connected to PLC
2	THV/EDC	Spider	Spider	Spider	Analog, connected to Spider
3	THV/EDC	Spider	Spider	Siemens PLC	Digital, connected to PLC
4	THV/EDC	Spider	Spider / Siemens PLC	Siemens PLC	Analog, connected to PLC

- EDM THV HALT/HASS controller software



Canceling Measured Signals

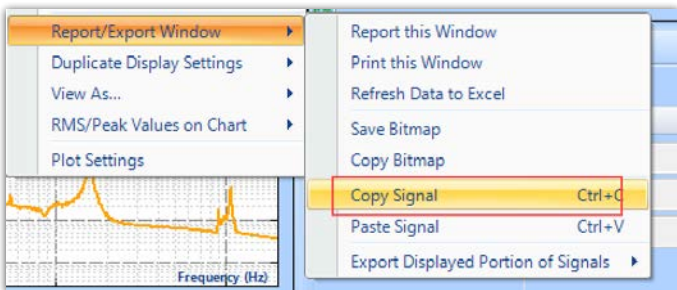
Clicking "Cancel" in Measured Signals will no longer display a user prompt to confirm cancellation.

Improved Run History Search Performance

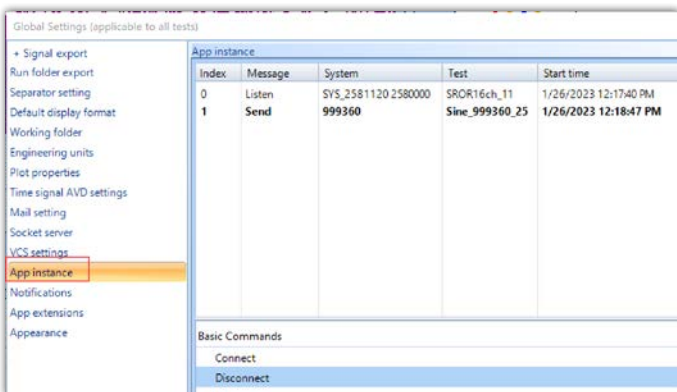
The Run History search function will wait for the Search button to be clicked instead of automatically searching for an entered entry.

- "Copy signal data" (to paste to a file) and "Copy signal" (to paste to a display window) is combined into one "Copy signal" command.

Copied signals from a window can be pasted to a new display window, or their values can be pasted to a text file.



- Settings for multiple VCS instances are moved to an independent tab in Global settings.



- Supports the latest hardware changes.



Controller ensures a test will not exceed the temperature limits of the chamber.

EDM Cloud and EDM Mobile

Signal display and layout are saved for review. View previous runs and signals.

- EDM Cloud Recent Test List UI Refactor

The recent test list in EDM Cloud Browser is organized and more concise.

PC Name	Test Name	Test Status	Last Updated	Sharing
LAPTOP-1148022U	THC1	Stopped	5 months ago	Shared with 2 members
LAPTOP-1148022U	Random70	Stopped	6 months ago	Private
LAPTOP-1148022U	Random55	Stopped	6 months ago	Private
LAPTOP-1148022U	Random59	Stopped	7 months ago	Private

- EDM VCS Cloud UI

The EDM VCS Cloud settings are updated for clarity.

Test	Run count	Last run on
Shock7	4	2023-01-18 15:23:51
1		2023-01-06 16:00:14
2		2023-01-09 15:14:20
3		2023-01-18 15:18:28
4		2023-01-18 15:23:51
SRS6	2	2023-01-18 15:17:47
Random29	5	2023-01-18 11:32:25
Random30	1	2023-01-17 14:45:23
Sine12	4	2023-01-17 14:44:45
SORRCOR4	2	2023-01-17 11:26:35
Shock9	3	2023-01-17 11:22:19
BFT2	1	2023-01-13 14:50:05
AcousticControl3	1	2023-01-13 14:42:28
TWR2	2	2023-01-13 14:28:02
Earthquake2	1	2023-01-13 14:02:08
TK7	1	2023-01-13 1:35:102

SOFTWARE RELEASE HISTORY

Type	Release	Exact Version	Release Date
Release	EDM 4.2	CI 4.2.0.3	02/28/2014
Patch	EDM 4.2.0	CI 4.2.0.14	07/02/2014
Release	EDM 5.0	CI 5.0.0.2	11/27/2014
Patch	EDM 5.0.1	CI 5.0.1.3	02/27/2015
Release	EDM 5.1	CI 5.1.0.6	08/12/2015
Release	EDM 6.0	CI 6.0.0.1	05/19/2016
Patch	EDM 6.0.2	CI 6.0.2.9	08/09/2016
Release	EDM 6.1	CI 6.1.0.4	02/07/2017
Patch	EDM 6.1	CI 6.1.0.27	08/22/2017
Release	EDM 7.0	CI 7.0.0.6	02/01/2018
Patch	EDM 7.1	CI 7.1.0.7	07/19/2018
Release	EDM 8.0	CI 8.0.0.1	02/02/2019
Release	EDM 8.1	CI 8.1.0.1	11/13/2019
Release	EDM 9.0	CI 9.0.0.4	06/05/2020
Release	EDM 9.1	CI 9.1.0.0	02/03/2021
Release	EDM 10.0	CI 10.0.0.2	10/26/2021
Release	EDM 10.1	CI 10.1.0.1	09/09/2022
Release	EDM 11.0	CI 11.0.0.1	01/19/2023

SYSTEM REQUIREMENTS

Minimum system requirements:

- **Operating system support:** Windows 7 SP1 or higher
- **Operating system type:** 32-bit or 64-bit
- **Processor speed:** 1.5 GHz Dual-Core x86
- **RAM:** 4 GB
- **Available storage space:** 10 GB

Recommended system requirements (minimum for Spider systems higher than 16 channels):

- **Ethernet speed:** at least 1 Gbps Ethernet port on the computer
- **Network cables:** provided by Crystal Instruments
- **Operating system:** Windows 10, 64-bit
- **Processor:** Intel Core i7, 2.0 GHz or Higher
- **RAM:** 8 GB DDR3 1600 or higher
- **Available storage space:** 10 GB or higher
- **Spider-HUB firmware version:** 2.0.5.17 or higher

VERSION COMPATIBILITY

Product and Software Version	Firmware Versions
Spider-80X/80Xi/80Hi/80Ci	
EDM Testing 11.0.0.x	11.0.0.1
Spider-81 (v7.x)	
EDM Testing 11.0.0.x	11.0.0.1
Spider-81B (v7.x)	
EDM Testing 11.0.0.x	11.0.0.1
Spider-80SG/SGi	
EDM Testing 11.0.0.x	11.0.0.1
Spider-20HE/20i	
EDM Testing 11.0.0.x	11.0.0.1

Product and Software Version	Firmware Versions
CoCo-80X/90X	
EDM Testing 11.0.0.x (EDM CoCo for DSA)	2.0.x or above
CoCo-70X	
EDM Testing 11.0.0.x (EDM CoCo for DSA)	2.0.x or above
Vibration Diagnostic System 1.4.2.x	2.0.x
CoCo-80	
EDM 6.0.2.x	4.0.x

Crystal Instruments Corporation
2090 Duane Avenue
Santa Clara, CA 95054

Phone: +1 (408) 986-8880
Fax: +1 (408) 834-7818

Crystal Instruments Testing Lab
15661 Producer Lane, STE H
Huntington Beach, CA 92649

www.crystalinstruments.com
info@go-ci.com

Crystal Instruments Testing Lab
1548A Roger Dale Carter Boulevard
Kannapolis, NC 28081

© 2023 Crystal Instruments Corporation. All Rights Reserved. 02/2023

Notice: This document is for informational purposes only and does not set forth any warranty, expressed or implied, concerning any equipment, equipment feature, or service offered or to be offered by Crystal Instruments. Crystal Instruments reserves the right to make changes to this document at any time, without notice, and assumes no responsibility for its use. This informational document describes features that may not be currently available. Contact a Crystal Instruments sales representative for information on features and product availability.