Solution Brochure

New radiated emission measurement and analysis software "EPX/RE"

Keysight Technologies & TOYO Corporation

Eliminate noise oversight using Accelerated Time Domain Scan. High reliability measurement software comparable for skilled EMC engineers.

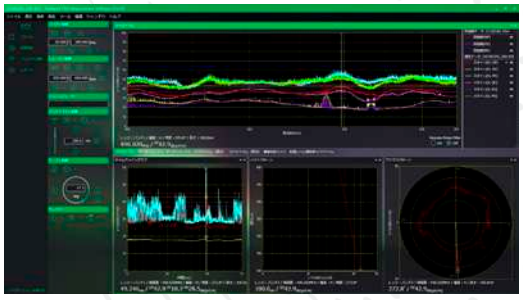
With the evolvement of IoT, 5G, autonomous driving and other technologies, the radio environment around us is becoming increasingly complicated. This means that the electromagnetic noise across these technologies needs to be evaluated and reduced during the product development process, making EMC measurements more important. TOYO Corporation has developed the “EPX / RE,” a radiated emission measurement software product for electronic equipment, including multimedia equipment, home appliances, medical equipment, etc. The "EPX/RE" achieves accurate measurements without noise oversight by incorporating the latest measurement technology, Accelerated Time Domain Scan, installed in the N9048B PXE.

High reliability measurement without noise oversight.

When the new Accelerated Time Domain Scan function is enabled, the FFT bandwidth is 350 MHz. This is much wider than the FFT bandwidth of the TDS function in existing products. You can measure the 30-1000 MHz band using only 3 range divisions. Additionally, there are no measurement gaps within the FFT bandwidth, since all the frequencies are constantly monitored. By incorporating the Accelerated Time Domain Scan into the automatic measurement sequence, we achieve reliable measurements without overlooking noise.

QP pre-scan with 350MHz FFT bandwidth

Accelerated Time Domain Scan maintains its wide FFT bandwidth of 350 MHz even when making measurements using QP detector. This has now made it possible to perform pre-scan measurements in the 30-1000 MHz band using QP detector. By picking up the noise of the final measurement candidate based on the pre-scan measurement results, using QP detector, you can suppress the pickup of unnecessary candidates such as impulses and reduce test points. Depending on the noise, it may even be possible to adopt the pre-scan measurement results as the final measurement.



EPX/RE main view

KEYSIGHT TECHNOLOGIES

New radiated emission measurement and analysis software "EPX/RE"

N9048B PXE

EPX/RE

Features

- Two types of high reliability automatic measurement sequences using Accelerated Time Domain Scan
  - Real Time Scan measurement sequence - utilizing the gapless measurement within FFT bandwidth
  - Step measurement sequence - saving the time for each measurement
- Pre-scan measurement using the QP detector
- Analyze noise by eliminating the effects of impulse noise which covers a wide band
- EPX automatically sets appropriate monitoring time according to noise characteristics
- Time series evaluation of noise
- Customizable report generation

TOYO Corporation

TOYO Corporation
1-6, Yaesu 1-chome, Chuo-ku,
Tokyo 103-8284, Japan
TEL +81-(0)3-3279-0771
FAX +81-(0)3-5205-2030
Contact :
https://www.toyo.co.jp/contacts/
URL : http://www.toyo.co.jp

TOYOTech LLC
42840 Christy Street,
Ste.209Fremont, CA 94538
TEL +1 510.438.9548
URL : http://www.toyotechus.com

TOYO Corporation China
Room 310 Enterprise Square,
No.228 Mei Yuan Road,
Jing'an District, Shanghai 200070,
P.R. China
TEL +86 021-6380-9633
URL : http://www.toyochina.com.cn

System Requirements

Processor	1.5+ GHz (Core i7 recommended)
Memory	8+ GB (16GB recommended)
Disk space	500+ GB SSD for system disk. Extra 2+ TB HDD for data disk recommended.
Display	1280 x 1024+ resolution
Device controlling Driver	National Instruments VISA
OS	OS Windows 10 (64bit) English
Others	When using "Excel/Word report" function, one of the following must be installed. Microsoft Office 2019/2016/365

Order Information

EPX/RE-AE	EPX/RE software Includes 1 year maintenance support after purchase
Annual Maintenance Support	Subscribers will have access to new software and documentation versions as new software versions are released

Learn more at: www.keysight.com

For more information on Keysight Technologies' products, applications or services, please contact your local Keysight office. The complete list is available at:
www.keysight.com/find/contactus

KEYSIGHT TECHNOLOGIES