



# Industry Comparison: Agilent N9038A MXE EMI Receiver versus Rohde & Schwarz ESU EMI Test Receiver

## Now, a choice in compliance test

Bringing products to market quickly is critical in today's competitive business environment, and selecting the right EMC compliance test solution can help bring products through the measurement process more quickly. With Agilent's new EMC compliance test offering, test labs and self-certifiers can choose a solution that best meets their unique needs.



### The Agilent MXE delivers:

- Integrated compliance measurements and diagnostic capability with seamless movement between receiver and spectrum analyzer modes
- Competitive specifications and measurement speed for outstanding throughput in compliance tests
- Robust diagnostic capabilities, including the industry's only Strip Chart
- Upgradable CPU, memory, disk drives, and I/O ports, as well as a wide range of applications to keep test assets current and extend instrument longevity

## Express your insight

The new Agilent MXE is more than a CISPR-compliant EMI receiver: it features X-Series signal analysis and graphical measurement tools that make it easy to examine signal details. With these diagnostic capabilities, the MXE complements your knowledge and helps you advise the designers if a device fails compliance testing. Equip your lab with the MXE—and express your insight.

## Complement your knowledge with versatile EMI and signal-analysis tools

The ability to verify EMC performance and diagnose the cause of EMI problems is a powerful combination. Show designers what's really happening inside their devices with the MXE's extensive built-in diagnostic tools.

Evaluate emissions and identify suspect signals in receiver mode. Continuously monitor signal amplitude with three different detectors and real-time meters, use Signal List to specify which signals are measured, and track and evaluate signal trends with up to 20 minutes of continuous recording using the Agilent-exclusive Strip Chart.

Move seamlessly between receiver and spectrum analyzer modes using signal frequency coupling for a closer look at signal details. Enhance analysis of out-of-compliance signals using marker functions, trace zoom, zone span, and spectrograms.

## A complete EMC test solution

With Agilent Solutions Partners, use a single point of contact to purchase a complete solution that meets MIL-STD and commercial specifications, combining the MXE EMI receiver with value-added integration, software, probes, antennas, chambers, and more.



**Agilent Technologies**

## Compare the Agilent MXE and Rohde & Schwarz ESU

Feature	N9038A MXE EMI receiver	ESU EMI test receiver
Frequency range	20 Hz to 8.4 GHz 20 Hz to 26.5 GHz	20 Hz to 8 GHz 20 Hz to 26.5 GHz 20 Hz to 40 GHz
CISPR 16-1-1 compliant	Yes	Yes
Resolution bandwidths		
3 dB	1 Hz to 2 MHz, 10% steps 4, 5, 6, 8, 10 MHz	10 Hz to 10 MHz, 1/2/3/5 sequence
CISPR	200 Hz, 9 kHz, 120 kHz, 1 MHz	200 Hz, 9 kHz, 120 kHz, 1 MHz
6 dB	10,100 Hz; 1,10,100 kHz; 1 MHz	10, 100 Hz; 1,10,100 kHz; 1 MHz
Detectors	Peak, quasi-peak, EMI-average RMS-average, negative peak, sample, normal, log power average, RMS average, and linear average	Max peak, quasi-peak, CISPR-average, RMS-average, average, min peak, sample, auto-peak (normal), RMS
Trace points	40001	30001
Preamplifier	Standard	Optional
Traces	3 EMI receiver 6 spectrum analyzer	3 EMI receiver 6 spectrum analyzer
Meters	3	3
Inputs	1 full-range 1 pulse-protected to 1GHz	1 full-range 1 pulse-protected to 1GHz
Spectrum analyzer	Yes	Yes
Amplitude correction	Yes	Yes
Limit lines	Yes	Yes
Global center frequency	Yes	Yes
Digital IF without log amp	Yes	No
Visual limit fail (red above)	Yes	No
Strip Chart	Yes	No
Live marker while scanning	Yes	No
Context-sensitive help	Yes	No
Modular upgradable CPU	Yes	No
Spectrogram	Yes	No
Zone span	Yes	No
Trace zoom	Yes	No
Phase noise application	Yes	No
VSA software support	Yes	No
Signal/marker zoom	Yes	No

The MXE EMI receiver is available now from Agilent or through its Solution Partners. For more information, go to:

[www.agilent.com/find/mxe](http://www.agilent.com/find/mxe)

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