EMF Measurement Methods

Wavecontrol offers different solutions for all **three primary methods used in EMF exposure assessment:**

Broadband measurement

The broadband measurement method provides a quick overview of the electromagnetic environment by capturing total contributions from all EMF sources across a wide frequency range. This helps identify high-exposure areas and supports initial assessments and certification tasks.

This solution includes broadband functionality for general EMF verification. For high-accuracy broadband measurements, Wavecontrol offers the SMP3 as the dedicated instrument.

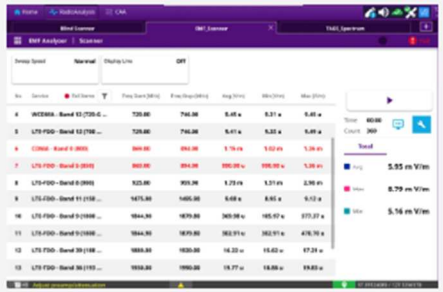
Frequency selective measurement

Based on spectrum analysis, the field level is assessed in specific frequency bands selected by the user. Multiple bands can be defined and measured simultaneously. Includes frequency selective mode and scanner mode.

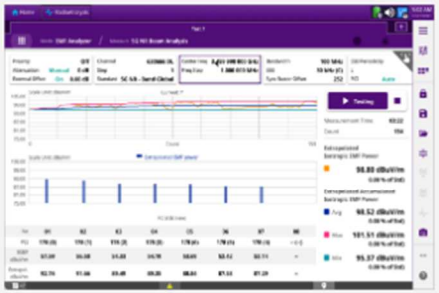
Code selective measurement

This is the newest method to extrapolate the maximum exposure. Using signal de-modulation and decoding, assess EMF levels from specific parts of the signals (SSB and traffic beams). Preferred method to extrapolate to the maximum exposure as per standards.

Frequency Selective
Spectrum Mode



Frequency Selective
Scanner Mode



Code Selective
SSB Method

Code Selective
LTE-FDD, LTE-TDD and 5G NR

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