

# R&S®FSW-K54

## EMI Measurement

### Application

# Specifications



# Specifications

The specifications of the R&S®FSW-K54 application firmware are based on the specifications of the R&S®FSW signal and spectrum analyzer data sheets.

Specifications apply under the following conditions: 30 minutes warm-up time at ambient temperature, specified environmental conditions met, calibration cycle adhered to, and all internal automatic adjustments performed. Typical values are designated with the abbreviation typ. These values are verified during the final test but are not assured by Rohde & Schwarz. Nominal values are design parameters that are not assured by Rohde & Schwarz. These values are verified during product development but are not specifically tested during production. Data without tolerance limits is not binding.

## EMI measurements

### Frequency

Frequency axis		
Scaling		linear, logarithmic

### Resolution bandwidths

EMI filters		
Bandwidths (–6 dB)		10 Hz, 100 Hz, 200 Hz, 1 kHz, 9 kHz, 10 kHz, 100 kHz, 120 kHz, 1 MHz
Bandwidth uncertainty		< 3 %, nominal
Shape factor 60 dB:3 dB		< 6, nominal

### Level

Level display		
Number of traces	selectable, displayed in parallel	1 to 6
Trace detectors		individually selectable for each trace
Standard detectors		max. peak, min. peak, auto peak (normal), sample, RMS, average
EMI detectors		quasi-peak, RMS-average, CISPR-average
Measurement marker detector		max. peak, average, quasi-peak, RMS-average, CISPR-average

### Measurements

Measurement marker	Data displayed	Data representation
Automatic marker peak search	frequency, level	table
Measurement with configurable detector on marker frequency	level	table
Limit check	delta level to limit line	table, color coded limit check

## Ordering information

Designation	Type	Order No.
EMI Measurement Application	R&S®FSW-K54	1313.1400.02
Signal and Spectrum Analyzer, 2 Hz to 8 GHz	R&S®FSW8	1312.8000.08
Signal and Spectrum Analyzer, 2 Hz to 13.6 GHz	R&S®FSW13	1312.8000.13
Signal and Spectrum Analyzer, 2 Hz to 26.5 GHz	R&S®FSW26	1312.8000.26
Signal and Spectrum Analyzer, 2 Hz to 43.5 GHz	R&S®FSW43	1312.8000.43
<b>Recommended options and extras</b>		
EMI Software	R&S®ES-SCAN	1308.9270.02
EMI Measurement Software, base version	R&S®EM32-EB	1300.7010.02
EMI Measurement Software, R&S®EM32-EB option EMI autotest	R&S®EMC32-K10	1117.6840.02
See also specifications for the R&S®FSW signal and spectrum analyzer (PD 5214.5984.22).		

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- ▮ Energy-efficient products
- ▮ Continuous improvement in environmental sustainability
- ▮ ISO 14001-certified environmental management system

Certified Quality System  
**ISO 9001**

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