SEIBERSDORF LABORATORIES

REFRAD X

COMB GENERATOR AND FIELD SOURCE

THE ESSENTIAL TOOL FOR EMC TEST LAB QUALITY ASSURANCE

RefRad X is a battery operated comb generator and Field Source for producing a well defined signal to test the performance of EMC and EMF measurement systems in the frequency range of 10 kHz to 3 GHz with three unique features:

- BROADBAND ANTENNA DESIGN OF GENERATOR
- IMPROVED FREQUENCY STABILITY FOR INCREASED DYNAMIC RANGE
- LISN CHECK FROM 10 KHZ

NEW:
IMPROVED FREQUENCY STABILITY ± 20 ppb

RefRad X Field Source

APPLICATION EXAMPLES

- **SYSTEM CHECK** for radiated emission set-ups using the Field Source or the Antenna Coupler method
- **SYSTEM CHECK** for conducted emission set-ups with LISN Coupler
- **NSA MEASUREMENT** according to CISPR 16-1-4 in fully an-echoic rooms in Field Source Mode
- **NSA MEASUREMENT** in semi anechoic environment in 3 m and 10 m distance with FibreLink X for increased dynamic range

ADVANTAGES

- Guarantees fulfilment of ISO 17025 requirement for the regular check of test equipment
- The built in oven controlled local Oscillator can be tuned to match the EMI Receiver reference frequency
- Avoids costly retesting by detecting defective measurement instruments prior to testing

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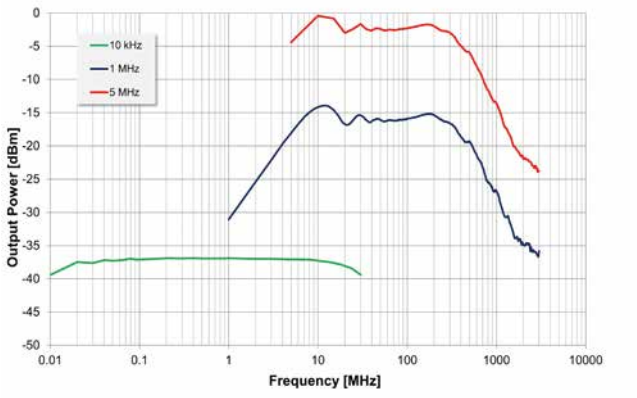
COMB GENERATOR AND FIELD SOURCE

TECHNICAL DATA

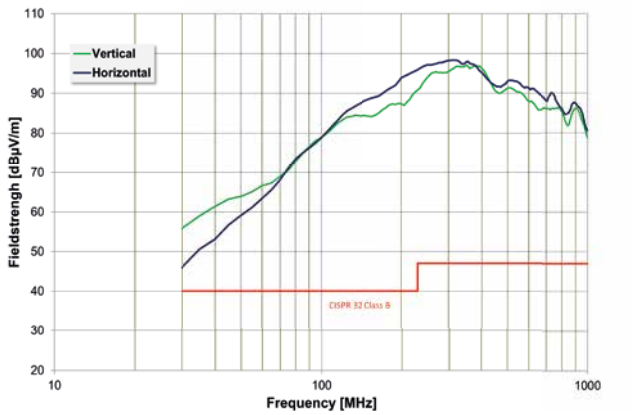
Frequency Range:	10 kHz - more than 3 GHz
Frequency Spacing:	10 kHz, 1 MHz, 5 MHz
Frequency Stability:	± 20 ppb (over temp. range)
Amplitude Stability:	± 0.4 dB (10-35°C)
Battery Operation Time:	7 Hours typical @ 5 MHz
Dimensions Field Source:	14,4 cm diameter, 28.5 cm height

LISN-COUPLER

Frequency Range:	10 kHz - 30 MHz
Available Types:	230V, CEE 7/3
	400V (CEE16A, CEE32A)
	DC, BNC plug



Typical coaxial output signals of the RefRad X Comb Generator



Typical fieldstrength of the RefRad X Field Source (5 MHz spectrum) in 3 m distance, 1 m height above groundplane

Presented by:

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