

Radiated Emissions Test Configuration



Radiated Emissions Environmental Conditions

Power Supply	3V DC using x2 'C' size batteries
Temperature	8°C
Relative Humidity	49%
Barometric Pressure	1011mb

Radiated Emissions Measurement Uncertainties

Frequency	± 200kHz
Amplitude	± 4.6dB

The uncertainties stated are calculated in accordance with the requirements of UKAS with a confidence level of 95%.

Test Equipment Used

Equipment Type	Model Number	Last Calibration Date	Calibration Interval
Active loop antenna	EMCO 6152	7/8/98	3 Years
Spectrum Analyser	HP 8563E	10/5/00	1 Year

7.5 Transmitter Radiated Emissions 30 MHz – 1 GHz - Intentional Radiator

CFR Clause	15.209
Frequency Range	30 MHz – 1 GHz

Operating Mode

The EUT was operating whilst the transmitter frequency was set at 33 kHz and repeated when set to 8 kHz.

Test Results

Transmitter at 33 kHz

Frequency (MHz)	3m Peak Measurement (dB μ V/m)	Limit at 3m (dB μ V/m)
109.82	18.96	43.52
262.67	19.17	46.00
271.92	18.8	46.00
400*	16.94	46.00
600*	26.14	46.00
850*	29.42	46.00

Transmitter at 8 kHz

Frequency (MHz)	3m Peak Measurement (dB μ V/m)	Limit (dB μ V/m)
110.07	21.76	43.52
258.07	16.68	46.00
262.72	18.47	46.00
267.33	17.47	46.00
271.92	15.13	46.00
850*	29.42	46.00

* Noise floor figures of test equipment.

Test Method

As per ANSI C63.4 : 1992

Frequency Range tested = 30 MHz to 1 GHz (as per sec 15.33 (a)(4)).

Measurement Detector Details: Peak, 300Hz bandwidth at frequencies below 150 kHz, 10 kHz at frequencies above 150 kHz.

The measurement was performed at 3m.

Radiated Emissions Test Configuration**Radiated Emissions Environmental Conditions**

Power Supply	3V DC using 2x 'C' size batteries
Temperature	14°C
Relative Humidity	32%
Barometric Pressure	989mb

Radiated Emissions Measurement Uncertainties

Frequency	± 200kHz
Amplitude	± 4.6dB

The uncertainties stated are calculated in accordance with the requirements of UKAS with a confidence level of 95%.

Test Equipment Used

Equipment Type	Model Number	Last Calibration Date	Calibration Interval
Biconilog antenna	EMCO 3142	22/6/99	2 Years
Spectrum Analyser	HP 8563E	10/5/00	1 Year