12 Occupied Bandwidth

12.1 Definition

The emission bandwidth (x dB) is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated x dB below the maximum in-band spectral density of the modulated signal.

12.2 Test Parameters

Test Location:	Element Hull
Test Chamber:	Wireless Laboratory 1
Test Standard and Clause:	IC: ANSI C63.10-2013, Clause 6.9 & 11.8
EUT Frequencies Measured:	902.5 MHz / 915 MHz / 927 MHz
EUT Channel Bandwidths:	500 kHz
EUT Test Modulations:	FSK
Deviations From Standard:	None
Measurement BW: (IC requirement: 1% to 5% OBW; Clause 11.8 requirement: 100 kHz)	100 kHz (IC: 10 kHz)
Spectrum Analyzer Video BW: (requirement at least 3x RBW)	300 kHz (IC: 30 kHz)
Measurement Span: (requirement 2 to 5 times OBW)	2 MHz
Measurement Detector:	Peak

Environmental Conditions (Normal Environment)

Temperature: 20 °C	+15 ºC to +35 ºC (as declared)
Humidity: 48 % RH	20 % RH to 75 % RH (as declared)
Supply: 7.4 Vdc	(as declared)

12.3 Test Limit

The minimum -6 dB bandwidth shall be at least 500 kHz.