

Wireless-Lan system bandwidth measurements

The bandwidth of the Wireless-Lan system is defined as the main-lobe nul-to-null bandwidth of the modulated signal. In all 4 modes (BPSK, QPSK, CCK-5.5 and CCK-11) this bandwidth results from keying the signal phase at a baud-rate of 11 Mb/s. The resulted spectrum is equivalent to an ideal $\text{SIN}(X)/X$, filtered by a shaping filter that reduces signal side-lobes down to -30 dBc.

The ideal $\text{SIN}(X)/X$ as well as the standard spectral mask for IEEE-802.11/b compatible system is shown in the following figure.

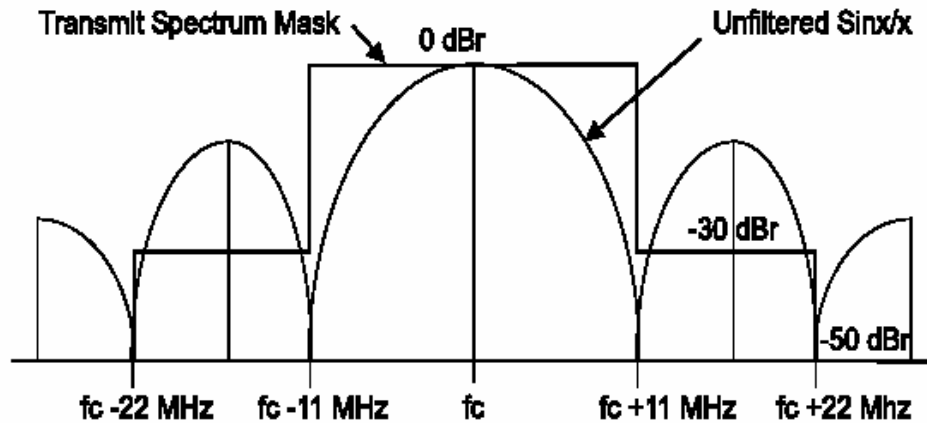


Figure 145— Transmit spectrum mask