

Transmitter Noise and Receiver De-Sense Curves (TNRD)



TNRD curves are used to determine the minimum required isolation or attenuation between co-sited transmitters and receivers based on the transmit power and the minimum transmit to receive frequency separation. This rejection shall be applied, by equal amounts, on Tx frequencies at the receiver (carrier rejection) and on the Rx frequencies at the transmitter (carrier noise suppression) using either physical separation between Tx and Rx antennas, filtering on the transmitters and receivers or a combination of both.

Below curves illustrate the minimum isolation values which result in no more than a 1 dB degradation of the 12 dB SINAD sensitivity.

