Necessary Bandwidth Description

Frequency range: 5020 MHz

Radio Specs: Digital modulation (BPSK)

Emission Designator: 16M30G1D

Occupied Bandwidth (99% of total power radiated): 16.05 MHz

±125 kHz will be necessary to compensate for Doppler shifting, bringing the total necessary bandwidth to 16.30 MHz

Necessary Bandwidth: 16.30 MHz (Occupied BW + Doppler shift BW)

This is the minimum value of the Occupied BW sufficient to ensure the transmission of information at the rate and with the quality required for the system employed under our specified conditions

Necessary Bandwidth demonstration: See chart below