

## Necessary Bandwidth Description

**Frequency range:** 902MHz – 928MHz (both mobile and fixed stations)

**Radio Specs:** Digital modulation (two-level GFSK)

**Emission Designator:** 357KF1D

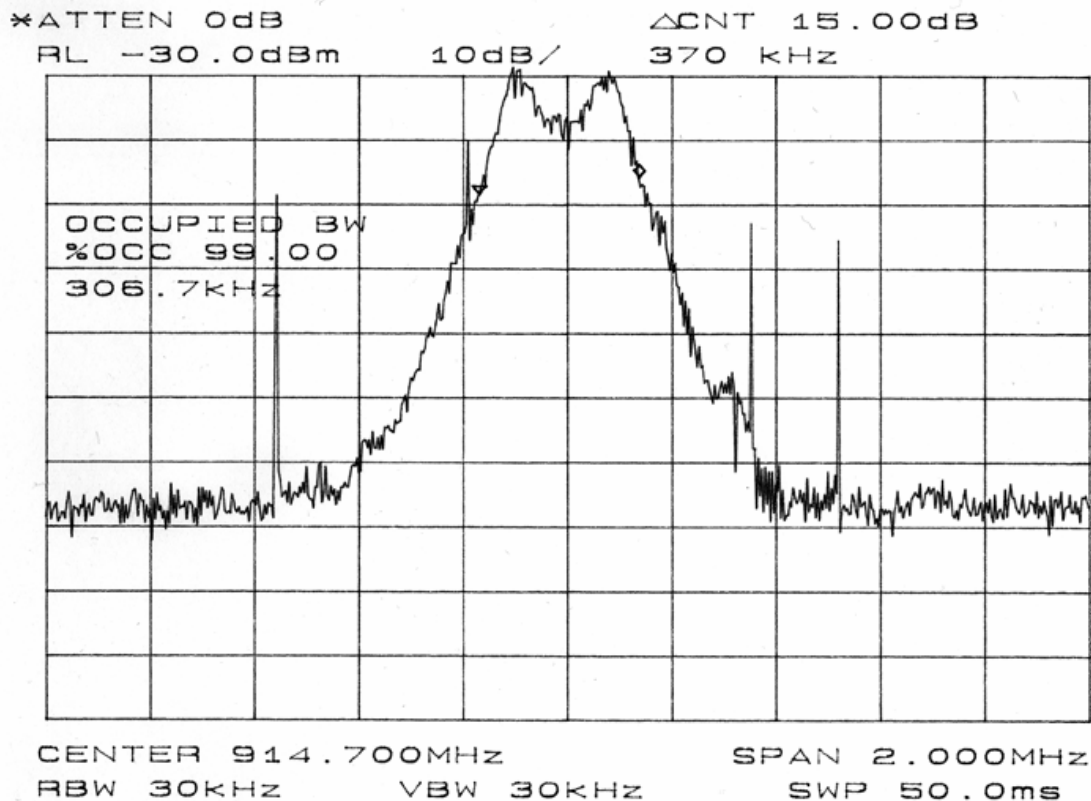
**Occupied Bandwidth (99% of total power radiated):** 306.7kHz

+/- 25kHz will be necessary to compensate for Doppler shifting bringing the total necessary bandwidth to 356.7kHz. This is the mini

**Necessary Bandwidth:** 356.7kHz (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



Sidenote: Spikes to the left and right of main spectrum are spurs. They are not part of our transmission spectrum.