

Modulating Signal Description:

The modulating signal being used here is a stepped, linear FM chirp signal of seven (7) distinct frequencies. Each frequency is transmitted for 100 nsec and the phase transitions from one frequency to the next are continuous. Figure 1 shows the spectra of each pulse of the chirp signal. For a center frequency of 915 MHz, the frequencies of the peaks become: 885 MHz, 895 MHz, 905 MHz, 915 MHz, 925 MHz, 935 MHz and 945 MHz. Shown in Figure 2 is the complete spectrum of the transmit chirp signal.

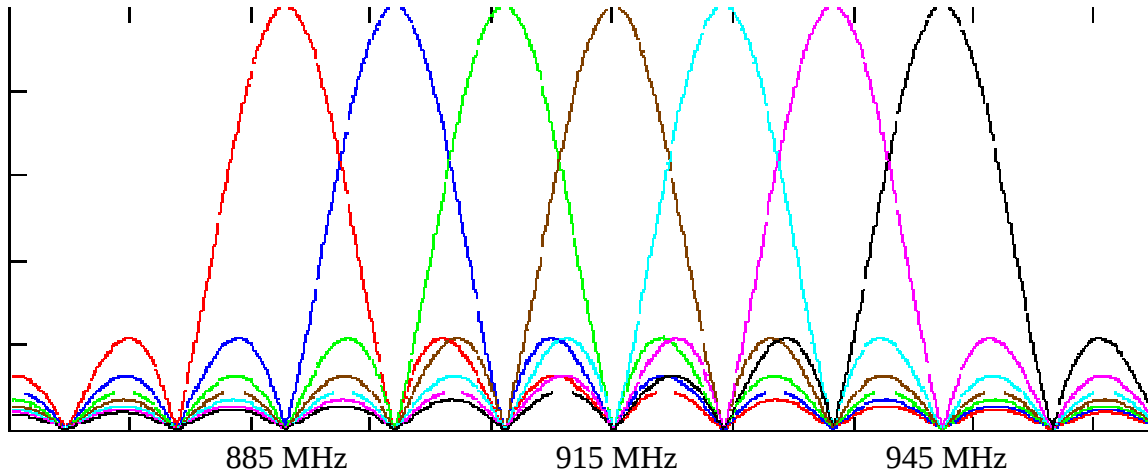


Figure 1 Spectra of Individual Pulse Signals

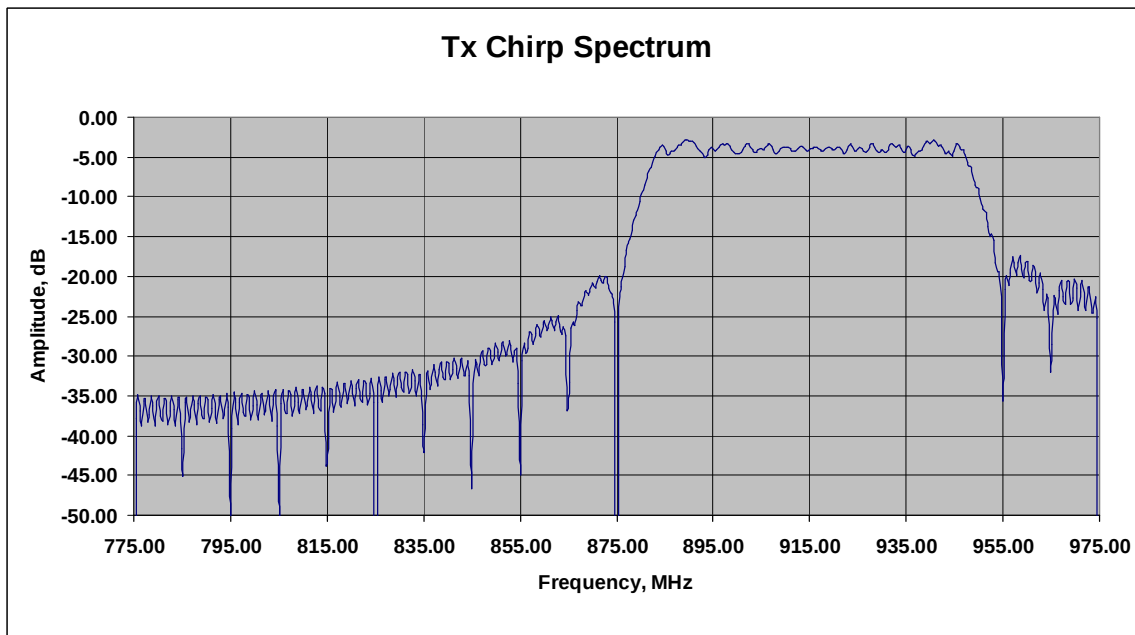


Figure 2 Spectrum of Transmit Chirp Signal