

## EXHIBIT 6: MEASURED DATA – Pursuant 47 CFR 2.1041

### 6.5 Frequency Stability -- Pursuant 47 CFR 2.1055a(1) & 2.1055(d)2

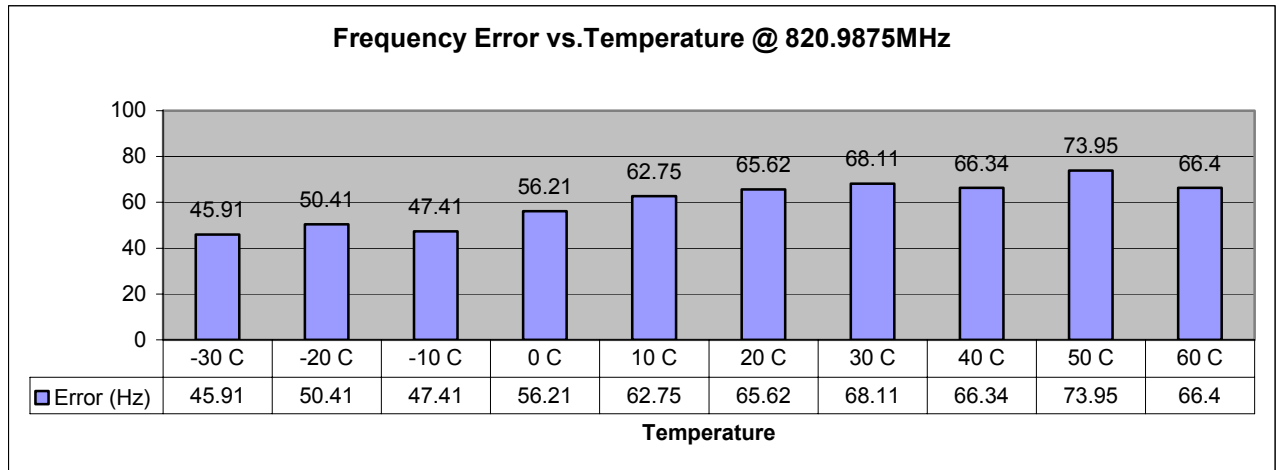
Frequency stability measurements were made as described in paragraph 7.4. Because of the transmitter's dependence on the stability of the base station oscillator, it is not possible to provide stability data for this transmitter as is commonly supplied for certification per 47 CFR 2.1055 for a radio with a locally stabilized oscillator.

The following information is provided to clarify how the transmitter attains the necessary accuracy of 2.5 PPM or better for 800MHz band operation. The transmitter's suppressed carrier emission is produced by impressing the baseband information signal directly onto a digitally synthesized injection frequency with a channel resolution of 12.5 kHz. The synthesized frequency is derived from a temperature compensated crystal oscillator (Y601 in Figure 4-1). Transmission frequency accuracy is enhanced by the radio receiver circuitry, which causes the radio operating frequency to become locked to within 0.4 PPM of the base station once it has acquired the primary control channel. Thus the temperature and voltage frequency stability of the transmitter is within 0.4 PPM accuracy of the higher stability base station oscillator.

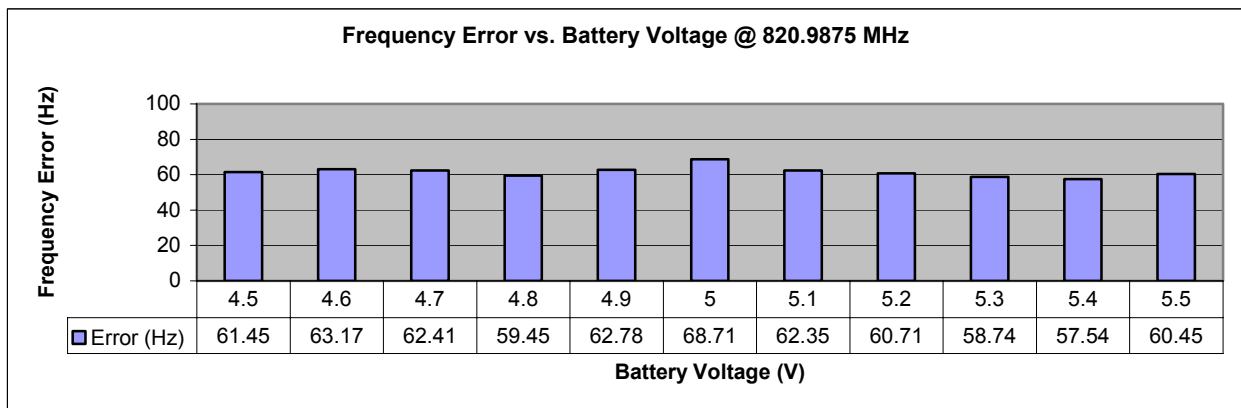
The AFC routine and frequency locking mechanism are implemented using both hardware and software. The hardware and software combined provide an automatic frequency control function which locks the receiver to within 0.4 PPM of the control channel oscillator. Since the base station stability is FCC regulated to be 1.5 PPM or better for the 800MHz band, the absolute accuracy of the transmitter is inherently better than 1.9 PPM in the 800MHz band. This is accomplished by programming fine synthesizer adjustments to U600 while the radio is in operation.

Transmitter frequency stability is guaranteed over all specified environmental operating conditions (battery voltage, temperature, humidity, etc.) because of the nature of the base station frequency locking mechanism. The frequency stability of the transmitter is maintained from a DC-DC converter powered from a laptop battery rated from 4.5V to 5.5V.

*NOTE 1: Frequency stability is independent of modulation scheme (Quad-QPSK, Quad-16QAM, Quad-64QAM). The data shown in following tables was taken with the radio set to transmit a Quad-16QAM signal at 820.9875 MHz while locked to a Motorola R2660C service monitor. The reported error is in units of Hertz, thus the specified performance of 1.5PPM in the 800MHz band at the tested frequencies equates to an error of 1231 Hz. Measured frequency error points over all extreme temperature and voltage conditions are substantially smaller than the allowable error.*



**Figure 6-42: Transmitter Frequency Stability (800 MHz band) – Frequency Error vs. Temperature**



**Figure 6-43: Transmitter Frequency Stability (800 MHz band) - Frequency Error vs. Voltage**