

EXHIBIT 6e: MEASURED DATA – Pursuant 47 CFR 2.1041**6.10 Effective Radiated Power (ERP) – Pursuant 15.247(b)(3)**

As described in Exhibit 7.1, the radiated power received at a spectrum analyzer was measured from the radio product specimen with integral antenna at 2 degrees increments as the specimen was rotated. These recorded power readings are uncalibrated ERP measurements. To convert these readings to ERP values a reference reading was obtained from a calibrated (to an ideal dipole) antenna to which was applied the same power level as the measured output power of the radio specimen. The reading at the spectrum analyzer from this calibrated reference antenna served to calibrate the spectrum analyzer readings for ERP measurements. By comparing the readings between the reference antenna and the radio product specimen, and with a measurement of the output power of the radio product specimen, this measurement also serves to determine the radio specimen antenna gain.

6.10.1 Sample ERP Calculation

The following calculation shows how the reported scaled ERP was determined.

$$\text{Measured ERP, dBd} = 10 * \log(\text{measured output power, mW}) + \text{measured antenna gain, dBd}$$

The resulting ERP was converted to mW:

$$\text{Measured ERP, mW} = 10^{\left(\frac{\text{Measured ERP, dBd}}{10}\right)}$$

Since the measured ERP was not determined at the production maximum output power, a simple scaling is performed to 700 mW, or, in the case of the ISM Band, to 850 mW:

$$\text{Scaled ERP, mW} = \text{Measured ERP, mW} * \left(\frac{700\text{mW}}{\text{measured output power, mW}}\right)$$

The method above was used to process all rotational measurement data and, for brevity, the following table summarizes the maximum ERP values obtained in the three transmit modes and the graphs (Figure 6-38 through 6-40) summarize in a visual fashion the radio ERP at rotational positions.

Frequency Band	Measured Frequency, MHz	Azimuth, degrees	Maximum ERP, mW (scaled)
806-825 MHz	813.5125	260	402.8
900-902 MHz	896.01875	174	654.2

Table 6-6. Maximum Scaled ERP

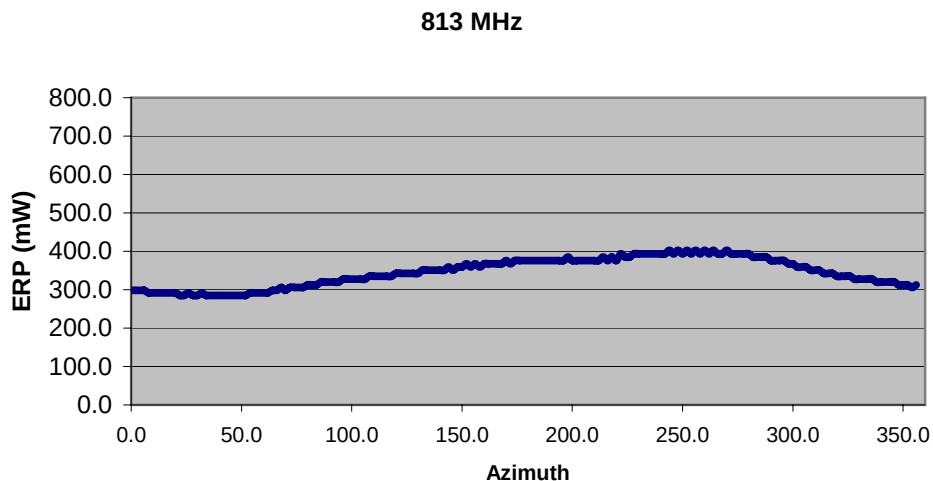


Figure 6-38: Land mobile Band: Scaled Maximum ERP vs. Azimuth Angle

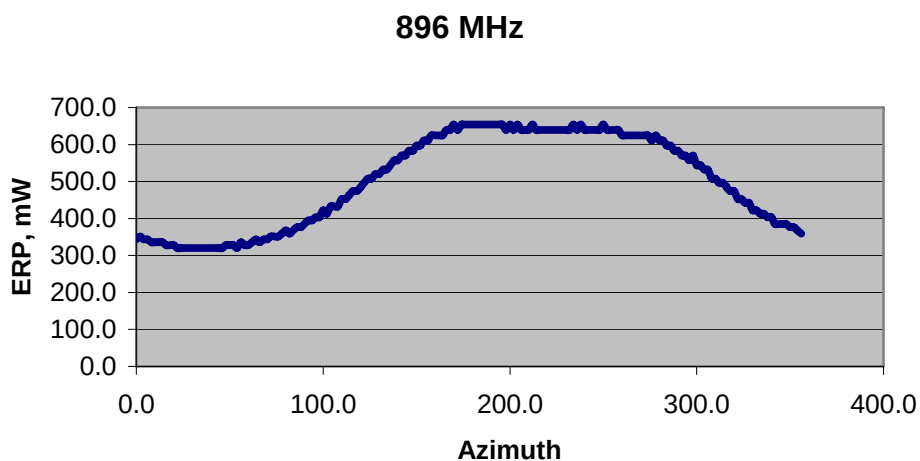


Figure 6-39. Land mobile Band: Scaled Maximum ERP vs. Azimuth Angle