

Test Data

§ 22.913 Effective Radiated Power Output

B. POWER: **High (CDMA Mode)**

Freq. Tuned (MHz)	LEVEL (dBm)	AFCL (dB)	POL (H/V)	F / S (μ V/m)	ERP (W)	ERP (dBm)	Battery
824.64	-17.2	31.66	V	1182769	0.25651	24.08	Extended
835.89	-17.4	31.80	V	1174712	0.25303	24.02	Extended
848.37	-17.6	31.95	V	1168776	0.25048	23.98	Extended
835.89	-17.4	31.80	V	1174898	0.25311	24.02	Standard

NOTES:

The EUT is placed 3m. away from the receiving antenna and the ERP
 is calculated using the formula:

$$\text{ERP (dBm)} = 10 \log_{10} \left(\left((r(\text{mV/m})/1 \times 10^6)^2 / 49.2/1 \times 10^{-3} \right) \right)$$

$$\text{ERP (dBm)} = 10 \log_{10} \left[(3 \times \text{FS}/1 \times 10^6)^2 / (49.2) \times 1000 \right]$$

$$\text{ERP (Watts)} = \{(3 \times \text{FS})/1 \times 10^6\}^2 / 49.2$$