

Test Data

§ 22.913 Effective Radiated Power Output

A. POWER (AMPS Mode)

Freq. Tuned (MHz)	LEVEL (dBm)	AFCL (dB)	POL (H/V)	F/S (μV/m)	ERP (W)	ERP (dBm)
824.04	-13.80	31.65	V	1747934	0.56022	27.47
836.49	-13.40	31.81	V	1863401	0.63668	28.03
848.97	-13.60	31.96	V	1853985	0.63026	27.98

B. POWER (CDMA Mode)

Freq. Tuned (MHz)	LEVEL (dBm)	AFCL (dB)	POL (H/V)	F/S (μV/m)	ERP (W)	ERP (dBm)
824.64	-16.50	31.66	V	1282035	0.30138	24.78
835.89	-16.30	31.80	V	1333310	0.32596	25.12
848.37	-16.60	31.95	V	1311388	0.31533	24.98

NOTES:

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

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

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

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