

#### 6.5.4 Test Data

Measured Average Conducted Power (P) – dBm		
FUNDAMENTAL FREQUENCY (MHz)	Digital	LIMIT (dBm)
824.950	35.0	38.5
836.188	34.4	38.5
848.000	32.7	38.5

Average ERP (dBm) Transmitter's Antenna Gain of 3 dBi (Substitution Method)					
FUNDAMENTAL FREQUENCY (MHz)	Vertical	Horizontal	Substitution Dipole Antenna Gain (dBi)	Max. EIRP (dBm)	LIMIT (dBm)
824.950	35.5	35.9	1.3	37.2	38.5
836.188	33.5	33.2	1.1	34.6	38.5
848.000	36.2	31.3	1.0	37.2	38.5

#### MINIMUM SEPARATION FOR RF EXPOSURE (R)

Maximum power density allowed by FCC =  $S = f/1500 = 824.95/1500 = 0.55 \text{ mW/cm}^2$

Max. EIRP = 37.2 dBm = 5248 mW

$R = \text{square root of } (EIRP/4*\pi*S) = \text{square root of } (5248/(4*3.1416*0.55)) = \underline{27.6 \text{ cm}}$

**The manufacturer specifies 30 cm minimum separation distance for RF Exposure compliance.**