RF Exposure Evaluation

hField Technologies FCC ID: UILHFWFG10

Operating Frequency: 2400 to 2483.5 MHz

The expected RF exposure at 20 cm is calculated as follows:

$$S = \frac{P G}{4 \pi D^2}$$

Where:

S = Power density in mW/cm² P = Power to antenna in mW G = Numeric gain of antenna D = separation distance in cm (20 cm)

Power to Antenna: $P_{\text{measured (dBm)}} = 16.1 \text{ dBm}$ Converting to mw: $P_{\text{measured (mW)}} = 10^{(\text{Pmeasured(dBm)})/10)}$ $P_{\text{measured (mW)}} = 10^{(16.1/10)} = 10^{(1.61)} = 40.73 \text{ mW}$

Antenna Gain: G = 10.4 dBiConverting to numeric gain: $G_{\text{numeric}} = 10^{(G \text{ (dBi)}/10)}$ $G_{\text{numeric}} = 10^{(10.4/10)} = 10^{(1.04)} = 10.96$

$$S = \frac{40.73 * 10.96}{4 \pi 20^{2}}$$
$$S = \frac{446.4}{5026.554}$$
$$S = 0.0888 \text{ mW/cm}^{2}$$

The expected RF exposure complies with Table B (limits for General Population / Uncontrolled Environments) of OET Bulletin 65, Supplement C, Appendix A where:

$$S_{max} = 1.0 \text{ mW/cm}^2$$