

## 3.6 **RF Exposure Compliance**

The maximum measured power, P is 5.53dBm

The antenna gain, G is 2.0dBi

The maximum EIRP power = P + GEIRP = 5.53 + 2.0 = 7.53dBm, or 5.66mW or 0.00566W

The limits for Maximum Permissible Exposure (MPE) for transmitter operating at 2.4Hz, MPE is 1mW/cm<sup>2</sup>, or 10W/m<sup>2</sup>

The Power Density, S is related to EIRP with the equation:

S = EIRP /  $4\pi D^2$ , where D is the safe separation distance and = 0.2m, or 20cm S = 5.66 /  $4\pi 20^2$ ,

 $S = 0.001126 \text{mW/cm}^2$ , or below the Maximum Permissible Exposure (MPE)

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