

**RF Exposure to FCC Rules and Regulations Part 1.1307, 1.1310, 2.1091, and 2.1093**

1. **FCCID G8JHHI02**
2. **The environment will be for the General Population / Uncontrolled Category for Mobile Devices per Part 2.1091**
3. **Antenna Information**
  - a. **The antenna is a whip antenna, omni directional with a numeric gain of 2.1 at 451.56 MHz**
4. **MPE Calculations**

**Limit for environment is 0.3 mW / cm<sup>2</sup>**  
**Output Power is 0.933 Watts**  
**The calculated power density is based on the following equation:**

$$S = \frac{PxG}{4\pi x d^2} \text{ where } S=\text{Power density in mW/cm}^2, P=\text{power in Watts, G= Numeric}$$

**Gain, D=Distance in cm**

$$S=0.39 \text{ mW/ cm}^2$$

**The maximum distance from the antenna at which MPE is met is based on the following equation:**

$$D = \sqrt{PxG / 4\pi x S}$$

**Based on the above formula, the maximum distance from the antenna at which the MPE is met will be 23 cm. Therefore, the necessary statement has been included on page 6 of the Users Manual:**

**RF EXPOSURE**

The antenna used for this transmitter must be installed to provide a separation distance of at least 24 cm from all persons, and must not be co-located or operating in conjunction with any other antenna or transmitter.