RF Exposure to FCC Rules and Regulations Prt 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^2
   Output Power is 0.933 Watts
   The calculated power density is based on the following equation:

   $S = \frac{PxG}{4x\pi xd^2}$ **where S=Power density in mW/cm^2 , P=power in Watts, G= Numeric Gain, D=Distance in cm**
   S=0.39 mW/ cm^2
   The maximum distance from the antenna at which MPE is met is based on the following equation:

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

   Based on the above formula, the maximum distance form 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.