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

1. **FCCID G8JHHI04**
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 integral antenna with a numeric gain of 1.32 at 451.35 MHz**
4. **MPE Calculations**

Limit for environment is 0.301 mW / cm^2
Highest Output Power is 0.194 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**
Based on 20 cm seperation
S=0.051 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 8.23 cm.