MPE Calculations : (WLAN: 802.11n HT20)

- Frequency range : 2412 MHz ~ 2462 MHz
- Target Power (Max) : 20 dBm

- Maximum antenna peak gain : 3.878 dBi

- **Maximum output power for the calculatio 20.00 dBm**

The EUT will only be used with a separation of 20 centimeters or greater between the antenna and the body of the user.

The MPE calculation for this exposure is shown below.

▪ **EIRP** = P + G = 20.00 dBm + 3.878 dBi = **23.878 dBm** = **244.231 mW**	**- Note** P = Power input to the antenna(dBm) G = Power gain of the antenna(dBi)

- Power density at the specific separation

▪ **S** = EIRP / (4 R^2 π) = **244.231** / (4 X 20^2 X π) = **0.048588** mW/cm^2	**- Note** S = Maximum power dencity(mW/cm^2) EIRP = Equivalent Isotropic Radiated Power(mW) R = Distance to the center of the radiation of the antenna(20cm)

Conclusion : The exposure condition of this device is compliant with FCC rules.

The maximum permissible exposure(MPE) of the general population/Uncontrolled for this device is 1.0 mW/cm^2.