

MPE Calculations

- Frequency range : 2402 MHz ~ 2480 MHz
- Maximum RF output power : 4.16 dBm
- Maximum antenna peak gain : 3.500 dBi

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.

The peak radiated output power (EIRP) is calculated as follows:

<p>▪ EIRP = P + G</p> <p>= 4.16 dBm + 3.500 dBi</p> <p>= 7.660 dBm</p>	<p>- Note</p> <p>P = Power input to the antenna(dBm)</p> <p>G = Power gain of the antenna(dBi)</p>
---	---

- Power density at the specific separation

<p>▪ S = $P G / (4 R^2 \pi)$</p> <p>= 2.606 X 2.239 / (4 X 20² X π)</p> <p>= 0.00116 mW/cm²</p>	<p>- Note</p> <p>S = Maximum power density(mW/cm²)</p> <p>P = Power input to the antenna(mW)</p> <p>G = Numeric power gain of the antenna</p> <p>R = Distance to the center of the radiation of the antenna(20cm)</p>
--	---

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/cm².
The power density at 20cm does not exceed the 1.0mW/cm².