

MPE Calculations : (Bluetooth)

- Frequency range : 2402 MHz ~ 2480 MHz
- Measured RF output power : 6.8 dBm
- Target Power & Tolerance : 5.00 dBm $\pm$ 3 dB (Max. 8 dBm & Min. 2 dBm)
- Maximum antenna peak gain : 1.139 dBi
- **Maximum output power for the calculation 8.00 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 = 8.00 dBm + 1.14 dBi = 9.14 dBm = 8.202 mW	- Note - P = Power input to the antenna(dBm) - G = Power gain of the antenna(dBi)
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- Power density at the specific separation

▪ S = EIRP / (4 R² π) = 8.202 / (4 X 20² X π) = <u>0.001632</u> mW/cm²	- Note - S = Maximum power density(mW/cm²) - EIRP = Equivalent Isotropic Radiated Power(mW) - R = Distance to the center of the radiation of the antenna(20cm)
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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.

MPE Calculations : (LE)

- Frequency range : 2402 MHz ~ 2480 MHz
- Measured RF output power : 6.17 dBm
- Target Power & Tolerance : 5.00 dBm $\pm$ 3 dB (Max. 8 dBm & Min. 2 dBm)
- Maximum antenna peak gain : 1.139 dBi
- **Maximum output power for the calculation 8.00 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 = 8.00 dBm + 1.14 dBi = 9.14 dBm = 8.202 mW	- Note - P = Power input to the antenna(dBm) - G = Power gain of the antenna(dBi)
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- Power density at the specific separation

▪ S = EIRP / (4 R² π) = 8.202 / (4 X 20² X π) = 0.001632 mW/cm²	- Note - S = Maximum power density(mW/cm²) - EIRP = Equivalent Isotropic Radiated Power(mW) - R = Distance to the center of the radiation of the antenna(20cm)
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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.