

RF Exposure Statement

Radiation exposure evaluation

EUT Model Nummber: WDF1001.The EUT is Wireless Repeater. It is desktop or wall-mounted device used with AC power at least 20 cm from any body part of the user or nearby persons.

The maximum conducted power is 20.2 dBm, antenna is fix-mounted, 5.0 dBi gain (maximum). Therefore, to comply with RF Exposure Requirement, the MPE was calculated.

The maximum Peak EIRP calculated is 331mWatts. The Power Density can be calculated using the formula from FCC OET bulletin 65

$$S = \text{EIRP} / 4\pi D^2$$

Where: S is Power Density in W/m^2
D is the distance from the antenna in meters.

In the table below, the calculated Power Density at different distances and MPE Limit for general population/uncontrolled exposure are presented.

Distance metres	Power Density W/m^2	Power Density mW/cm^2	MPE mW/cm^2
0.20	0.658	0.0658	1.0

As can be seen from the data, the MPE is well below the limit at 20 cm and more.

Power Density is 1mW/cm^2 at 5.1cms from antenna