# ATTACHMENT FCC ID:VUJAT570W

# ** MPE Calculations **

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.

**Power density at the specific separation:**

| | |
|---|---|
| $S_{WLAN} = PG/(4R^2 \pi)$<br><br>$S_{WLAN} = (80 * 1) / (4 * 20^2 * \pi)$<br><br>$S_{WLAN} = 0.0076$ mW/cm$^2$ | Where,<br>S = Maximum power density (mW/cm$^2$)<br>P = Power input to the antenna (mW)<br>G = Numeric power gain of the antenna<br>R = Distance to the center of the radiation of the antenna<br>(20cm = limit for MPE) |

The Maximum permissible exposure (MPE) for the general population is 1 mW/cm$^2$ .

The power density at 20cm does not exceed the 1 mW/cm$^2$ limit.

Therefore, the exposure condition is compliant with FCC rules.