

## **Statement of compliance to Maximum Permissible Exposure (MPE)**

Equipment : Outdoor Wireless Mesh Router  
Type/Model : MSR4000, DWR-1000, WMS8000, Wawoola R1400  
Applicant : Azalea Networks U.S.A, Inc  
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Here assuming a worst-case prediction of power density (100% reflection), then

$$S = 4PG / (4\pi R^2) = PG / (\pi R^2).$$

Where S = power density in mW/cm<sup>2</sup>

P = transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

As we can see from the test report JSH007080425-001:

For 2400-2483.5MHz, The maximum P = 17.30dBm = 53.70mW

$$G = 14\text{dBi} = 25.12$$

R is chosen to be 21cm

$$S = PG / (\pi R^2) = 53.70 * 25.12 / (3.14 * 21 * 21) = 0.97\text{mW/cm}^2$$

For 5745-5825MHz, The maximum P = 18.32dBm = 67.92mW

$$G = 17\text{dBi} = 50.12$$

R is chosen to be 34cm

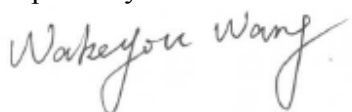
$$S = PG / (\pi R^2) = 67.92 * 50.12 / (3.14 * 34 * 34) = 0.94\text{mW/cm}^2$$

This level is below the 1 mW/cm<sup>2</sup> MPE for General Population / Uncontrolled Exposure as stated in OET BULLETIN 65 Edition 97-01.

**Conclusion: this EUT fulfills 47CFR Part 15.247(i) (2006) with the precautions are outlined in the User's Manual to prevent exposure to high levels of RF energy. (See appendix I)**

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## **Appendix I**

**Precautions below must be outlined in the User Manual to prevent exposure to high levels of RF energy:**

The radiated output power of this device is below the FCC radio frequency exposure limits based on that human proximity to the antenna shall not be less than 34cm during normal operation.