

APPENDIX A (DECLARATION OF COMPLIANCE TO MAXIMUM PERMISSIBLE EXPOSURE LIMITS FOR HUMANS)

The Model U9W33 with 5150-5850MHz transmitter complies with Maximum permissible exposure limits for humans as called out in §1.1310. It is exempt from Maximum Permissible Exposure based on its operating frequency, and power density 0.005mW/cm².

Calculation formula :

$$S = PG / 4\pi D^2$$

S : power density (W/m²)

P : peak output power (W)

G: antenna gain (isotropic)

D: measurement distance (m)

Where :

• Ant A

P = 12.66dBm at 5755 MHz, 11n-HT40 (see 29 page)

G= -1.73dBi

• Ant B

P = 12.13dBm at 5755 MHz, 11n-HT40 (see 29 page)

G= -0.68dBi

Therefore :

$$S(W/m^2) = \frac{(10^{\frac{12.66}{10}} \times 10^{-3} \times 10^{\frac{-1.73}{10}}) + (10^{\frac{12.13}{10}} \times 10^{-3} \times 10^{\frac{-0.68}{10}})}{4 \times \pi \times 0.2 \times 0.2} = 0.05$$

$$S \doteq 0.005 \text{ (mW/cm}^2\text{)}$$

This would be less than 1mW/cm² when the separation distance between the user and the device's radiating element is no less than 20cm.