

3.6 RF Exposure Compliance

The maximum measured antenna conducted power, P is 13.4 dBm

The antenna gain, G is 2.0 dBi

The maximum EIRP power = P + G ERP = 13.4+ 2.0= 15.4 dBm, or 0.0347W

The limits for Maximum Permissible Exposure (MPE) for transmitter operating at 2.4 GHz, MPE is 1mW/cm^2 , or 10W/m^2

The Power Density, S is related to EIRP with the equation: S = EIRP / $4\pi D^2$, where D is the safe separation distance and = 0.2m, or 20cm S = 0.0347 / $4\pi 0.2^2 = 0.07$ W/ m^2