

3.5 RF Exposure Compliance

The maximum measured power, P is 4.6dBm

The antenna gain, G is 2dBi

The maximum EIRP power = P + G

ERP = 4.6 + 2 = 6.6dBm, or 0.00457W

The limits for Maximum Permissible Exposure (MPE) for transmitter operating at 2.4Hz, MPE is 1mW/cm², or 10W/m²

The Power Density is related to EIRP with the equation:

$S = EIRP / 4\pi D^2$, or $10 = 0.00457 / 4\pi D^2$,

The minimum safe separation distance, D = 0.6cm, which is below 20cm