

MPE Limit Calculation: EUT's operating frequency is 2412-2462 MHz;. Highest conducted power = 595.7 mW (i.e. 27.75 dBm). Therefore, **Limit for Uncontrolled exposure: 1 mW/cm²**.

Equation from page 18 of OET 65, Edition 97-01

$$S = P G / 4\pi R^2$$

where,

S = Power Density mW/m²

P = Power (mW)

R = Distance to the center of radiation of the antenna

G = Maximum antenna gain

Maximum antenna gain for EUT = 5 dBi = 3.16

P = 595.7 mW

R = 20 cm

G = 3.16

$$S = 595.7 * 3.16 / 4(3.14)(20)^2$$

$$S = 0.374 \text{ mW/cm}^2$$

Therefore, EUT meets the Uncontrolled Exposure limit at 20cm.