MPE Limit Calculation: EUT's operating frequencies @ <u>2412-2462 MHz</u>; highest conducted power = 27.97dBm (peak) therefore, **Limit for Uncontrolled exposure: 1 mW/cm$^2$.**

EUT maximum antenna gain = 8 dBi.

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

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

where,                         S = Power Density mW/m$^2$
                                        P = Power Input to antenna mili Watts
                                        G = Numeric Antenna Gain
                                        R = Distance to the center of radiation of the antenna (20 cm for Mobile minimum distance)

Antenna Numeric Gain = $10^{dBi/10}$

Power at antenna port = 602.6 mW

Antenna Gain = 8 dBi

Numeric antenna gain = $10^{8/10}$ = 6.31

$$S = (602.6)(6.31) / 4(3.1416)(20)^2$$

$$S = 0.756 \text{ mW/cm}^2$$

Therefore, EUT meets the Uncontrolled Exposure limit.