MPE Limit Calculation: EUT's operating frequencies @ $\underline{2412}$ and $\underline{2462}$ MHz; only channel 1 and 11 are active on this unit. Highest conducted power = 26.05 dBm (peak) therefore, **Limit for Uncontrolled exposure:** 1 mW/cm².

The following antennas will be used under the Class II change:

6 dBi Omni directional antenna 9 dBi 120 degree antenna

EUT maximum antenna gain = 9 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 = 403.7 mW

Antenna Gain = 9 dBi

Numeric antenna gain = $10^{9/10} = 7.94$

 $S = (403.7)(7.94) / 4(3.1416)(20)^2$

 $S = 0.638 \text{ mW/cm}^2$

Therefore, EUT meets the Uncontrolled Exposure limit.