MPE Limit Calculation: EUT's operating frequencies @ $\underline{2.4 - 2.4835 \text{ GHz}}$; Highest conducted power is in g mode on channel 1 = 24.93 dBm (peak).

Limit for Uncontrolled exposure: 1 mW/cm².

EUT maximum antenna gain =5.5 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 = 312 mW

Antenna Gain = 5.5 dBi

Numeric antenna gain = $10^{5.5/10} = 3.5$

$$S = (312)(3.5) / 4(3.1416)(20)^2$$

$$S = 0.22 \text{ mW/cm}^2$$

Therefore, the channel meets the Uncontrolled Exposure Limit.