MPE Calculations for NLite E

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

$S = PG / 4\pi R^2$ or $R = \sqrt{PG / 4\pi S}$

MPE Limit Calculation: EUT's operating frequencies @ **5725 - 5850**; highest conducted power = 29.93 dBm (peak) therefore, Limit for Uncontrolled exposure: 1 mW/cm^2 or 10 W/m^2

EUT maximum antenna gain =**30 dBi.**

where, S = Power Density (1 mW/cm^2)
P = Power Input to antenna (984.0mW)
G = Antenna Gain (1000 numeric)

$S = (984*1000/ 4*3.14*20^2) = (1000000 /5024) =$ **195.76 mW/cm^2**

Calculating for R

$R = \sqrt{PG / 4\pi S}$

$R = \sqrt{(984*1000)} / 4\pi(1)$

R = **279.8 cm**