

Prediction of MPE limit at a given distance

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

$$S = \frac{PG}{4\pi R^2}$$

$\frac{2.22}{78.5}$

where: S = power density
 P = power input to the antenna
 G = power gain of the antenna in the direction of interest relative to an isotropic radiator
 R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	2.00 (dBm)
Maximum peak output power at antenna input terminal:	1.584893192 (mW)
Antenna gain(typical):	1.5 (dBi)
Maximum antenna gain:	1.412537545 (numeric)
Time Averaging:	100 (%)
Prediction distance:	2.5 (cm)
Prediction frequency:	2450 (MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1 (mW/cm ²)
Power density at prediction frequency:	0.028504 (mW/cm ²)
Margin of compliance:	-15.5 (dB)

This equates to 0.285042828 W/m² Complies