



Prediction of MPE limit at a given distance

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

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

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

Maximum peak output power at antenna input terminal:	9.1 dBm
Maximum peak output power at antenna input terminal:	8.1 mW
Antenna gain(maximum):	2 dBi
Maximum antenna gain:	1.6 numeric
Time Averaging:	100 %
Prediction distance:	20 cm
Prediction frequency:	2450 MHz
FCC MPE limit for uncontrolled exposure at prediction frequency:	1.00 mW/cm ²
IC MPE limit for uncontrolled exposure at prediction frequency:	5.42 W/m ²
Power density at prediction frequency:	0.00 mW/cm ²
This equates to:	0.03 W/m ²