



### 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 an isotropic radiator

R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal: 1.89 (dBm)  
Source-Based Time Averaging 100.00 (%)  
Corrected max peak output power: 1.89 (dBm)  
Maximum peak output power at antenna input terminal: 1.545254 (mW)  
Antenna gain(typical): 2 (dBi)  
Maximum antenna gain: 1.584893 (numeric)  
Prediction distance: 20 (cm)  
Prediction frequency: 2440 (MHz)  
MPE limit for uncontrolled exposure at prediction frequency: 1 (mW/cm<sup>2</sup>)  
  
Power density at prediction frequency: 0.000487 (mW/cm<sup>2</sup>)