



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: -2.50 (dBm) *

Maximum peak output power at antenna input terminal: 0.562341325 (mW)

Antenna gain(maximum): 3 (dBi) *

Maximum antenna gain: 1.995262315 (numeric)

Time Averaging: 100 (%) *

Prediction distance: 20 (cm) *

Prediction frequency: 2444 (MHz) *

MPE limit for uncontrolled exposure at prediction frequency: 1.000 (mW/cm²)

Power density at prediction frequency: 0.000223 (mW/cm²)

This equates to: 0.002232185 W/m²