



Prediction of MPE limit at a given distance

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

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

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: 20.00 (dBm)

Maximum peak output power at antenna input terminal: 100 (mW)

Antenna gain(typical): 16 (dBi)

Maximum antenna gain: 39.81071706 (numeric)

Prediction distance: 100 (cm)

Prediction frequency: 800 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 0.533333333 (mW/cm²)

Power density at prediction frequency: **0.031680** (mW/cm²)

Margin of compliance: **-12.3** (dB)