



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: 18.00 (dBm)
Source-Based Time Averaging 100.00 (%)
Corrected max peak output power: 18.00 (dBm)
Maximum peak output power at antenna input terminal: 63.09573 (mW)
Antenna gain(typical): 8 (dBi)
Maximum antenna gain: 6.309573 (numeric)
Prediction distance: 20 (cm)
Prediction frequency: 2440 (MHz)
MPE limit for uncontrolled exposure at prediction frequency: 1 (mW/cm²)
Power density at prediction frequency: 0.079201 (mW/cm²)