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 the antenna terminal: 18.42 (dBm)

Maximum peak output power at the antenna terminal: 69.50243176 (mW)

ower at the antenna terminal: 69.50243176 (mW)
Antenna gain(typical): 2 (dBi)

Maximum antenna gain: 1.584893192 (numeric)

Prediction distance: 20 (cm)

Prediction frequency: 2450 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: ______1 (mW/cm^2)

Power density at prediction frequency: 0.021914 (mW/cm^2)

Maximum allowable antenna gain: 18.59269855 (dBi)