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: 27.09 (dBm)

Maximum peak output power at the antenna terminal: 511.6818355 (mW)

at the antenna terminal: 511.6818355 (mW)
Antenna gain(typical): 8.15 (dBi)

Maximum antenna gain: 6.531305526 (numeric)

Prediction distance: 21 (cm)

Prediction frequency: 917.4 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: ________0.6116 (mW/cm^2)

Power density at prediction frequency: 0.603048 (mW/cm^2)

Maximum allowable antenna gain: 8.211159302 (dBi)