



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

R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal: 18.80 (dBm)

Maximum peak output power at antenna input terminal: 75.85776 (mW)

Antenna gain(typical): 15 (dBi)

Maximum antenna gain: 31.62278 (numeric)

Prediction distance: 20 (cm)

Prediction frequency: 860 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 0.533333 (mW/cm²)

Power density at prediction frequency: 0.477233 (mW/cm²)

Maximum allowable antenna gain: 15.48269 (dBi)

isotropic radiator

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