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

Valid for frequencies from 30 to 100.000 MHz

Maximum peak output power at antenna input terminal: 19.40 (dBm)

Maximum peak output power at antenna input terminal: 87.096359 (mW)

Antenna gain(typical): 0.30 (dBi)

Maximum antenna gain: 1.071519305 (numeric)

Prediction distance: 20 (cm)
Prediction frequency: 1925 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: ______ 1.00 (mW/cm^2)

Power density at prediction frequency: 0.018567 (mW/cm^2)

Maximum allowable antenna gain: 17.61 (dBi)

Margin of Compliance: 17.31 (dB)