



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: 18.50 (dBm)

Maximum peak output power at antenna input terminal: 70.79457844 (mW)

Antenna gain(typical): 3.00 (dBi)

Maximum antenna gain: 1.995262315 (numeric)

Prediction distance: 100 (cm)

Prediction frequency: 1921.536 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 1.00 (mW/cm²)

Power density at prediction frequency: **0.001124** (mW/cm²)

Maximum allowable antenna gain: **32.49** (dBi)

Margin of Compliance: **29.49** (dB)