



### 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 antenna input terminal: 43.00 (dBm)

Maximum peak output power at antenna input terminal: 19952.62315 (mW)

Antenna gain(maximum): 16 (dBi)

Maximum antenna gain: 39.81071706 (numeric)

Time Averaging: 100 (%)

Prediction distance: 365 (cm)

Prediction frequency: 720 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 0.480 (mW/cm<sup>2</sup>)

Power density at prediction frequency: 0.474465 (mW/cm<sup>2</sup>)

Margin of compliance: -0.1 (dB)

This equates to: 4.744652467 W/m<sup>2</sup>