



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

Minimum separation distance with 12 dBi antenna is 36 cm

Maximum peak eirp: 42.00 (dBm) (30 dBm+12 dBi)

Maximum peak eirp: 15848.93192 (mW)

Time Averaging: 100 (%)

Prediction distance: 36 (cm)

Prediction frequency: 1960 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 1 (mW/cm²)

Power density at prediction frequency: **0.973162** (mW/cm²)

Margin of compliance: **-0.1** (dB)