



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: 27,30 (dBm)

Maximum peak output power at antenna input terminal: 537,0317964 (mW)

Antenna gain(maximum): 2,5 (dBi)

Maximum antenna gain: 1,77827941 (numeric)

Time Averaging: 100 (%)

Prediction distance: 8,72 (cm)

Prediction frequency: 2412 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 1,000 (mW/cm²)

Power density at prediction frequency: 0,999441 (mW/cm²)

Margin of compliance: 0,0 (dB)

This equates to: 9,994410106 W/m²