



MPE Calculation for FCC Uncontrolled Environment

Formula 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

Source Based Time Averaged Duty Cycle is 100% in calculation below

Maximum peak output power at antenna input terminal: -2.30 (dBm)

Maximum peak output power at antenna input terminal: 0.001 (W)

Maximum antenna gain: 0.70 (dBi)

Maximum antenna gain: 1.175 (numeric)

Prediction distance: 20 (cm)

Prediction frequency: 916.2125 (MHz)

Time Averaged Duty Cycle 100 %

MPE limit for uncontrolled exposure at prediction frequency: 6.11 (W/m^2)

Power density at prediction frequency: 0.0001 (mW/cm^2)

Power density at prediction frequency: 0.001 (W/m^2)

Maximum allowable antenna gain: 37.17 (dBi)

Margin of Compliance: 36.47 (dB)