



### 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: 21.30 (dBm) \*

Maximum peak output power at antenna input terminal: 134.8962883 (mW)

Antenna gain(maximum): 7.4 (dBi) \*

Maximum antenna gain: 5.495408739 (numeric)

Time Averaging: 100 (%) \*

Prediction distance: 20 (cm) \*

Prediction frequency: 2437 (MHz) \*

MPE limit for uncontrolled exposure at prediction frequency: 1.000 (mW/cm<sup>2</sup>)

Power density at prediction frequency: 0.147479 (mW/cm<sup>2</sup>)

This equates to: 1.474789866 W/m<sup>2</sup>



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Maximum peak output power at antenna input terminal: 15.00 (dBm) \*

Maximum peak output power at antenna input terminal: 31.6227766 (mW)

Antenna gain(maximum): 5.5 (dBi) \*

Maximum antenna gain: 3.548133892 (numeric)

Time Averaging: 100 (%) \*

Prediction distance: 20 (cm) \*

Prediction frequency: 5200 (MHz) \*

MPE limit for uncontrolled exposure at prediction frequency: 1.000 (mW/cm<sup>2</sup>)

Power density at prediction frequency: 0.022322 (mW/cm<sup>2</sup>)

This equates to: 0.223218479 W/m<sup>2</sup>



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Maximum peak output power at antenna input terminal: 21.90 (dBm) \*

Maximum peak output power at antenna input terminal: 154.8816619 (mW)

Antenna gain(maximum): 5.5 (dBi) \*

Maximum antenna gain: 3.548133892 (numeric)

Time Averaging: 100 (%) \*

Prediction distance: 20 (cm) \*

Prediction frequency: 5785 (MHz) \*

MPE limit for uncontrolled exposure at prediction frequency: 1.000 (mW/cm<sup>2</sup>)

Power density at prediction frequency: 0.109328 (mW/cm<sup>2</sup>)

This equates to: 1.093276831 W/m<sup>2</sup>