



### MPE Calculation for FCC Controlled Environment

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 RMS Radiated Power, EIRP: 52.5 (dBm)

Maximum RMS Radiated Power, EIRP: 179.5 (W)

Prediction distance: 100 (cm)

Prediction frequency: 5800 (MHz)

Maximum Time Averaged Duty Cycle 100 %

MPE limit for uncontrolled exposure at prediction frequency: 50.00 (W/m<sup>2</sup>)

Power density at prediction frequency: 14.28 (W/m<sup>2</sup>)

Margin of Compliance: 5.4 (dB)