

## **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:	19.20	(dBm)
Maximum peak output power at antenna input terminal:	0.083	(W)
Maximum antenna gain:	0.60	(dBi)
Maximum antenna gain:	1.148	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	1925	(MHz)
Time Averaged Duty Cycle	100	%
MPE limit for uncontrolled exposure at prediction frequency:	10.00	(W/m^2)
Power density at prediction frequency:	0.0190	(mW/cm^2)
Power density at prediction frequency:	0.190	(W/m^2)
Maximum allowable antenna gain:	17.81	(dBi)
Margin of Compliance:	17.21	(dB)