

## **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 to	erminal: <u>19.40</u>	(dBm)
Maximum peak output power at antenna input te	erminal: <b>0.087</b>	(W)
Maximum antenr	na gain: -4.50	(dBi)
Maximum antenr	na gain: <b>0.355</b>	(numeric)
Prediction di	istance: <b>20</b>	(cm)
Prediction fred	quency: 1925	(MHz)
Time Averaged Dut	ty Cycle 100	%
MPE limit for uncontrolled exposure at prediction free	quency: 10.00	(W/m^2)
Power density at prediction free	quency: 0.0061	(mW/cm^2)
Power density at prediction free	quency: 0.061	(W/m^2)
Maximum allowable antenr	na gain: 17.61	(dBi)
Margin of Comp	pliance: 22.11	(dB)
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