Nemko

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:	18.20	(dBm)
Maximum peak output power at antenna input terminal:	0.066	(W)
Maximum antenna gain:	0.00	(dBi)
Maximum antenna gain:	1.000	(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:	0.0131	(mW/cm^2)
Power density at prediction frequency:	0.131	(W/m^2)
Maximum allowable antenna gain:	18.81	(dBi)
Margin of Compliance:	18.81	(dB)