FCC ID: ACJ96NKX-TG4221

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:	**20.20**	(dBm)
Maximum peak output power at antenna input terminal:	**0.105**	(W)
Maximum antenna gain:	**-1.20**	(dBi)
Maximum antenna gain:	**0.759**	(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:	**0.0158**	(mW/cm^2)
Power density at prediction frequency:	**0.158**	(W/m^2)
Maximum allowable antenna gain:	**16.81**	(dBi)
Margin of Compliance:	**18.01**	(dB)