Prediction of MPE limit at a given distance

IS 9181

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 peak output power at device output terminal:	14.83	(dBm)
Cable and Jumper loss	0.0	(dB)
Maximum peak output power at antenna input terminal:	14.83	(dBm)
Maximum peak output power at antenna input terminal:	30.40885026	(mW)
Single Antenna gain(typical):	6	(dBi)
Number of Antennae	1	
Total Antenna gain(typical):	6	(dBi)
Maximum antenna gain:	3.981071706	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2462	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^2)

Power density at prediction frequency:	0.024084	(mW/cm^2)
	0.240841	(W/m^2)
Maximum allowable antenna gain:	22.18269855	(dBi)

Margin of Compliance:	16.18269855	dB