

MPE CALCULATIONS

The following MPE calculations are based on a measured conducted RF power of +11.2 dBm as presented to the antenna. The peak gain of this antenna, based on the data sheet is -1.0 dBi.

<u>Prediction of MPE limit at a given distance</u>			
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 antenna input terminal:	11.20	(dBm)	
Maximum peak output power at antenna input terminal:	13.183	(mW)	
Antenna gain(typical):	-1	(dBi)	
Maximum antenna gain:	0.794	(numeric)	
Prediction distance:	20	(cm)	
Prediction frequency:	903	(MHz)	
MPE limit for uncontrolled exposure at prediction frequency:	0.6	(mW/cm^2)	
Power density at prediction frequency:	0.002083	(mW/cm^2)	
Maximum allowable antenna gain:	23.6	(dBi)	
Margin of Compliance at	20	cm =	24.6 dB