

## MPE CALCULATIONS

The following MPE calculations are based on a measured conducted peak output power of +11.8 dBm as presented to the antenna. The peak gain of this antenna based on the antenna 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:		11.80	(dBm)	
Maximum peak output power at antenna input terminal:		15.136	(mW)	
Antenna gain(typical):		-1	(dBi)	
Maximum antenna gain:		0.794	(numeric)	
Prediction distance:		20	(cm)	
Prediction frequency:		914	(MHz)	
MPE limit for uncontrolled exposure at prediction frequency:		0.6	(mW/cm^2)	
Power density at prediction frequency:		0.002392	(mW/cm^2)	
Maximum allowable antenna gain:		23.0	(dBi)	
Margin of Compliance at		20	cm =	24.0 dB