Transcore Amtech Technology		Model: 05684	Test Number:	090912	
MPE Calculator	MPE uses EIRP for calculation.				
	EIRP is based on TX power added to the antenna gain in dBi.				
	dBi = dB gain compared to an isotropic radiator.				
	S = power density in mW/cm^2				
				Antenna Gain (dBi)	1
		Output Power		dBd + 2.17 = dBi	dBi to dBd 2.2
Tx Frequency (MHz)	915	Maximum (Watts)	0.0006	Antenna Gain (dBd)	-1.17
Cable Loss (dB)	0.0	(dBm)	-2.33	Antenna minus cable (dBi)	1.00
Calculated ERP (mw)		0.447		EIRP = Po(dBM) + Gain (dB)	
Calculated EIRP (mw)		0.736		Radiated (EIRP) dBm	-1.329
				ERP = EIRP - 2.17 dB	
Occupational Limit				Radiated (ERP) dBm	-3.499
3.05000	**mW/cm^2**				
General Public Limit					
0.61000	**mW/cm^2**				

Power density (S) = EIRP
------- = mW/cm^2
4 p r^2
[r (cm), EIRP (mW)]

FCC radio frequency radiation exposure limits per 1.1310		
Frequency (MHz)	Occupational Limit	Public Limit
300-1,500	f/300	f/1500
1,500-10,000	5	1

FCC radio frequency radiation exposure limits per 1.1310		
Frequency (MHz)	Occupational Limit @ Tx Freq (mW/cm^2)	Public Limit @ Tx Freq (mW/cm^2)
300-1,500	3.05	0.61
1,500-10,000	5	1

EIRP	Distance	Distance	S
milliwatts	cm	inches	mW/cm^2
0.736	100.00	39.37	0.00001
0.736	90.00	35.43	0.00001
0.736	80.00	31.50	0.00001
0.736	70.00	27.56	0.00001
0.736	60.00	23.62	0.00002
0.736	50.00	19.69	0.00002
0.736	40.00	15.75	0.00004
0.736	30.00	11.81	0.00007
0.736	20.00	7.87	0.00015
0.736	10.00	3.94	0.00059
0.736	5.00	1.97	0.00234
0.736	1.00	0.39	0.05860
0.736	0.50	0.20	0.23441
0.736	0.40	0.16	0.36626
0.736	0.31	0.12	0.60980

Frequency (MHz)	Occupational Limit minimum Distance (cm / inches)	Public Limit minimum distance (cm / inches)
300-1,500	N/A	N/A
1,500-10,000	N/A	0.31 / 0.12