MPE Calculator	DMP		Test Number	100223A	
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	2.17
Tx Frequency (MHz)	915	(Watts)	0.000599		-1.17
				Antenna minus cable (dBi)	1.00
Cable Loss (dB)	0.0	(dBm)	-2.23		
	Calculated ERP (mw)	0.457		Radiated (EIRP) dBm	-1.229
	Calculated EIRP (mw)	0.754			
				Radiated (ERP) dBm	-3.399

Occupational Limit

3.05000 **mW/cm^2**

General Public Limit

0.61000 **mW/cm^2**

Power density (S) = EIRP / 4 p r^2 = mW/cm^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
0.754	70.00	27.56	0.00001
0.754	60.00	23.62	0.00002
0.754	50.00	19.69	0.00002
0.754	40.00	15.75	0.00004
0.754	30.00	11.81	0.00007
0.754	20.00	7.87	0.00015
0.754	10.00	3.94	0.00060
0.754	9.00	3.54	0.00074
0.754	8.00	3.15	0.00094
0.754	7.00	2.76	0.00122
0.754	6.00	2.36	0.00167
0.754	5.00	1.97	0.00240
0.754	4.00	1.57	0.00375
0.754	3.00	1.18	0.00666
0.754	1.00	0.39	0.05997

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