MPE Calculator	Ligowave		Test Number	101229	
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)	32
		Output Power	dBd + 2.17 = dBi	dBi to dBd	2.17
Tx Frequency (MHz)	5785	(Watts)	0.436000		29.83
				Antenna minus cable (dBi)	32.00
Cable Loss (dB)	0.0	(dBm)	26.39		
	Calculated ERP (mw)	419262.953		Radiated (EIRP) dBm	58.395
	Calculated EIRP (mw)	691013.432			
				Radiated (ERP) dBm	56.225

Occupational Limit

5.00000 mW/cm²

General Public Limit

1.00000 mW/cm²

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
1,500-100,000	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	19.28333333	3.856666667
1,500-100,000	5	1

EIRP	Distance	Distance	S
milliwatts	cm	inches	mW/cm²
691013.432	1000.00	393.70	0.05499
691013.432	750.00	295.28	0.09776
691013.432	500.00	196.85	0.21996
691013.432	400.00	157.48	0.34368
691013.432	300.00	118.11	0.61099
691013.432	250.00	98.43	0.87983
691013.432	240.00	94.49	0.95467
691013.432	230.00	90.55	1.03949
691013.432	200.00	78.74	1.37473
691013.432	150.00	59.06	2.44396
691013.432	120.00	47.24	3.81869
691013.432	110.00	43.31	4.54455
691013.432	105.00	41.34	4.98767
691013.432	100.00	39.37	5.49891
691013.432	95.00	37.40	6.09298

Frequency (MHz)	Occupational Limit minimum Distance (cm / in)	Public Limit minimum distance (cm / in)
300-1,500	N/A	N/A
1,500-10,000	105cm / 41.3"	230cm / 90.6"