LigoWave			Test Number:	111228		
Model:	LigoPTP 5-23 MiMo PRO					
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)	23
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2.2
Tx Frequency (MHz)	5785	Maximum (Watts)	0.5848		Antenna Gain (dBd)	20.83
Cable Loss (dB)	0.0	(dBm)	27.67		Antenna minus cable (dBi)	23.00
	Calculated ERP (mw)	70794.578		EIRP = Po(dBM) + Gain (dB)		
	Calculated EIRP (mw)	116680.962			Radiated (EIRP) dBm	50.670
				ERP = EIRP - 2.17 dB		
Occupational Limit					Radiated (ERP) dBm	48.500
5.00000	mW/cm^2					
50.00000	W/m^2					
General Public Limit						
1.00000	mW/cm^2					
10.00000	W/m^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	Public Limit @ Tx Freq (mW/cm^2)
300-1,500 (mW/cm2)	19.28333333	3.856666667
300-1,500 (W/m2)	192.8333333	38.56666667
1,500-10,000 (mW/cm2)	5	1
1,500-10,000 (W/m2)	50	10

EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts	mW/cm^2	W/m^2	cm	meter	inches	Feet
116680.962	0.10317	1.03169	300.00	3.00	118.11	0.25
116680.962	0.12278	1.22779	275.00	2.75	108.27	0.23
116680.962	0.14856	1.48563	250.00	2.50	98.43	0.21
116680.962	0.18341	1.83411	225.00	2.25	88.58	0.19
116680.962	0.23213	2.32129	200.00	2.00	78.74	0.17
116680.962	0.30319	3.03189	175.00	1.75	68.90	0.15
116680.962	0.41267	4.12674	150.00	1.50	59.06	0.13
116680.962	0.59425	5.94251	125.00	1.25	49.21	0.10
116680.962	0.92852	9.28518	100.00	1.00	39.37	0.08
116680.962	1.14632	11.46318	90.00	0.90	35.43	0.08
116680.962	1.65070	16.50698	75.00	0.75	29.53	0.06
116680.962	3.71407	37.14070	50.00	0.50	19.69	0.04
116680.962	4.79606	47.96062	44.00	0.44	17.32	0.04
116680.962	5.02173	50.21728	43.00	0.43	16.93	0.04
116680.962	5.80323	58.03235	40.00	0.40	15.75	0.03
116680.962	10.31686	103.16862	30.00	0.30	11.81	0.03
116680.962	14.85628	148.56281	25.00	0.250	9.84	0.02

Frequency (MHz)	Occupational Limit minimum Distance (meters)	Occupational Limit minimum Distance (cm / inches)	Public Limit minimum distance (meters)	Public Limit minimum distance (cm / inches)
300-1,500	N/A	N/A	N/A	N/A
1,500-10,000	0.43	43 / 17	1.00	100 / 39