

Dbii	Model: F50	Test Number: 080721A			
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)	32.5	
		Output Power	dBd + 2.17 = dBi	dBi to dBd	2.2
Tx Frequency (MHz)	5785	Maximum (Watts)	0.5000	Antenna Gain (dBd)	30.33
Cable Loss (dB)	0.0	(dBm)	26.99	Antenna minus cable (dBi)	32.50
	Calculated ERP (mw)	539473.361		EIRP = Po(dBm) + Gain (dB)	
	Calculated EIRP (mw)	889139.705		Radiated (EIRP) dBm	59.490
				ERP = EIRP - 2.17 dB	
				Radiated (ERP) dBm	57.320
Occupational Limit	<div>Power density (S)</div> <div>EIRP</div> <div>----- = mW/cm²</div> <div>4 π r²</div> <div>r (cm) EIRP (mW)</div>				
5.00000					
General Public Limit					
1.00000					
	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	19.28333333	3.856666667		
	1,500-10,000	5	1		
	EIRP	Distance	Distance	S	Distance
	milliwatts	cm	inches	mW/cm ²	Feet
	889139.705	350.00	137.80	0.57760	11.48
	889139.705	300.00	118.11	0.78617	9.84
	889139.705	275.00	108.27	0.93561	9.02
	889139.705	270.00	106.30	0.97058	8.86
	889139.705	265.00	104.33	1.00755	8.69
	889139.705	260.00	102.36	1.04668	8.53
	889139.705	250.00	98.43	1.13209	8.20
	889139.705	200.00	78.74	1.76889	6.56
	889139.705	150.00	59.06	3.14469	4.92
	889139.705	140.00	55.12	3.60997	4.59
	889139.705	130.00	51.18	4.18672	4.27
	889139.705	121.00	47.64	4.83270	3.97
	889139.705	120.00	47.24	4.91358	3.94
	889139.705	119.00	46.85	4.99650	3.90
	889139.705	115.00	45.28	5.35013	3.77
	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	119 / 47	265 / 104		