

Garmin	Model: GMN-00676	Test Number:	120619				
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)	30.5		
		Output Power		dBd + 2.17 = dBi	dBi to dBd 2.2		
Tx Frequency (MHz)	9375	Maximum (Watts)	4.0000	Antenna Gain (dBd)	28.33		
Cable Loss (dB)	0.0	(dBm)	36.02	Antenna minus cable (dBi)	30.50		
	Calculated ERP (mw)	2723077.435		EIRP = Po(dBm) + Gain (dB)			
	Calculated EIRP (mw)	4488073.817		Radiated (EIRP) dBm	66.521		
				ERP = EIRP - 2.17 dB			
	Occupational Limit	<div style="border: 1px solid black; padding: 5px;"> Power density (S) EIRP ----- = mW/cm² 4 π r² r (cm) EIRP (mW) </div>		Radiated (ERP) dBm	64.351		
	5.00000 mW/cm ²						
	50.00000 W/m ²						
	General Public Limit						
	1.00000 mW/cm ²						
	10.00000 W/m ²						
FCC radio frequency radiation exposure limits per 1.1310							
	Frequency (MHz)	Occupational Limit	Public Limit				
	300-1,500 (mW/cm ²)	f/300	f/1500				
	1,500-10,000 (mW/cm ²)	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/cm ²)	31.25	6.25				
	300-1,500 (W/m ²)	312.5	62.5				
	1,500-10,000 (mW/cm ²)	5	1				
	1,500-10,000 (W/m ²)	50	10				
EIRP	S	S	Distance	Distance	Distance	Distance	
milliwatts	mW/cm ²	W/m ²	cm	meter	inches	Feet	
4488073.817	0.08929	0.89287	2000.00	20.00	787.40	1.67	
4488073.817	0.35715	3.57150	1000.00	10.00	393.70	0.83	
4488073.817	0.72888	7.28877	700.00	7.00	275.59	0.58	
4488073.817	0.99208	9.92082	600.00	6.00	236.22	0.50	
4488073.817	1.02600	10.25997	590.00	5.90	232.28	0.49	
4488073.817	1.08023	10.80226	575.00	5.75	226.38	0.48	
4488073.817	1.42860	14.28598	500.00	5.00	196.85	0.42	
4488073.817	2.23218	22.32185	400.00	4.00	157.48	0.33	
4488073.817	3.96833	39.68329	300.00	3.00	118.11	0.25	
4488073.817	4.72264	47.22639	275.00	2.75	108.27	0.23	
4488073.817	5.00988	50.09883	267.00	2.67	105.12	0.22	
4488073.817	5.71439	57.14393	250.00	2.50	98.43	0.21	
4488073.817	7.05481	70.54806	225.00	2.25	88.58	0.19	
4488073.817	8.92874	89.28739	200.00	2.00	78.74	0.17	
4488073.817	35.71496	357.14957	100.00	1.00	39.37	0.08	
4488073.817	63.49326	634.93256	75.00	0.75	29.53	0.06	
4488073.817	142.85983	1428.59827	50.00	0.50	19.69	0.04	
			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	2.67	267 / 105	5.75	575 / 226
			1,500-10,000	N/A	N/A	N/A	N/A