

Garmin	Model: TT10		Test Number: 120423								
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)		2					
		Output Power		dBd + 2.17 = dBi		2.2					
Tx Frequency (MHz)	154.6	Maximum (Watts)	2.000000	Antenna Gain (dBd)		-0.17					
Cable Loss (dB)	0.0	(dBm)	33.01	Antenna minus cable (dBi)		2.00					
	Calculated ERP (mw)	1923.225		EIRP = Po(dBm) + Gain (dB)							
	Calculated EIRP (mw)	3169.786		Radiated (EIRP) dBm		35.010					
				ERP = EIRP - 2.17 dB							
				Radiated (ERP) dBm		32.840					
Occupational Limit	<table border="1"> <tr> <td>Power density (S)</td> </tr> <tr> <td>EIRP</td> </tr> <tr> <td>----- = mW/cm²</td> </tr> <tr> <td>4 π r²</td> </tr> <tr> <td>r (cm) EIRP (mW)</td> </tr> </table>						Power density (S)	EIRP	----- = mW/cm ²	4 π r ²	r (cm) EIRP (mW)
Power density (S)											
EIRP											
----- = mW/cm ²											
4 π r ²											
r (cm) EIRP (mW)											
1.00000 mW/cm ²											
10.00000 W/m ²											
General Public Limit											
0.20000 mW/cm ²											
2.00000 W/m ²											
FCC radio frequency radiation exposure limits per 1.1310 (mW/cm2)											
	Frequency (MHz)	Occupational Limit	Public Limit								
	30-300	1	0.2								
	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	Public Limit								
	30-300 (mW/cm2)	1	0.2								
	30-300 (W/cm2)	10	2								
	300-1,500 (mW/m2)	0.515333333	0.103066667								
	300-1,500 (W/m2)	5.153333333	1.030666667								
	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					
3169.786	0.00631	0.06306	200.00	2.00	78.74	0.17					
3169.786	0.01121	0.11211	150.00	1.50	59.06	0.13					
3169.786	0.02522	0.25224	100.00	1.00	39.37	0.08					
3169.786	0.03114	0.31141	90.00	0.90	35.43	0.08					
3169.786	0.03941	0.39413	80.00	0.80	31.50	0.07					
3169.786	0.04484	0.44843	75.00	0.75	29.53	0.06					
3169.786	0.05148	0.51478	70.00	0.70	27.56	0.06					
3169.786	0.07007	0.70068	60.00	0.60	23.62	0.05					
3169.786	0.10090	1.00897	50.00	0.50	19.69	0.04					
3169.786	0.15765	1.57652	40.00	0.40	15.75	0.03					
3169.786	0.20591	2.05913	35.00	0.35	13.78	0.03					
3169.786	0.28027	2.80271	30.00	0.30	11.81	0.03					
3169.786	0.40359	4.03590	25.00	0.25	9.84	0.02					
3169.786	0.63061	6.30609	20.00	0.20	7.87	0.02					
3169.786	0.98533	9.85327	16.00	0.16	6.30	0.01					
3169.786	1.12108	11.21083	15.00	0.15	5.91	0.01					
3169.786	2.52244	25.22436	10.00	0.10	3.94	0.01					
			Occupational Limit minimum Distance (meters)	Occupational Limit minimum Distance (cm / inches)	Public Limit minimum distance (meters)	Public Limit minimum distance (cm / inches)					
	Frequency (MHz)										
	300-1,500		N/A	N/A	N/A	N/A					
	1,500-10,000		N/A	N/A	N/A	N/A					