

Garmin	03198	Test Number:	170817		
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)	5.2
				dBd + 2.17 = dBi	2.2
Tx Frequency (MHz)	2440	Ave Power (Watts)	0.0524	Antenna Gain (dBd)	3.03
Cable Loss (dB)	0.0	(dBm)	17.2	Antenna minus cable (dBi)	5.20
Calculated ERP (mw)	105.196			EIRP = Po(dBm) + Gain (dB)	
Calculated EIRP (mw)	173.380			Radiated (EIRP) dBm	22.390
				ERP = EIRP - 2.17 dB	
Occupational Limit				Radiated (ERP) dBm	20.220
5 mW/cm ²	<div style="border: 1px solid black; padding: 5px;"> Power density (S) EIRP ----- = mW/cm² 4 π r² r (cm) EIRP (mW) </div>				
50.00000 W/m ²					
General Public Limit					
1 mW/cm ²					
10.00000 W/m ²					
FCC radio frequency radiation exposure limits per 1.1310					
	Frequency (MHz)	Occupational Limit (mW/cm ²)	Public Limit (mW/cm ²)		
	300-1,500	f/300	f/1500		
	1,500-10,000	5	1		
Canada Occupational Limit					
IC radio frequency radiation exposure limits per RSS-102					
	Frequency (MHz)	Occupational Limit (W/m ²)	Public Limit (W/m ²)		
0.6455f ^{0.5} W/m ²	100-6,000	0.6455f ^{0.5}			
31.88535 W/m ²	6,000-15,000	50			
Canada General Public Limit					
	Frequency (MHz)	Occupational Limit (W/m ²)	Public Limit (W/m ²)		
0.02619f ^{0.6834} W/m ²	48-300		1.291		
5.40851 W/m ²	300-6,000		0.02619f ^{0.6834}		
	6,000-15,000	50	10		
EIRP	S	S	Distance	Distance	Distance
milliwatts	mW/cm ²	W/m ²	cm	meter	inches
173.380	0.00138	0.01380	100.00	1.00	39.37
173.380	0.00170	0.01703	90.00	0.90	35.43
173.380	0.00216	0.02156	80.00	0.80	31.50
173.380	0.00282	0.02816	70.00	0.70	27.56
173.380	0.00383	0.03833	60.00	0.60	23.62
173.380	0.00552	0.05519	50.00	0.50	19.69
173.380	0.00862	0.08623	40.00	0.40	15.75
173.380	0.01533	0.15330	30.00	0.30	11.81
173.380	0.02208	0.22075	25.00	0.25	9.84
173.380	0.03449	0.34493	20.00	0.20	7.87
173.380	0.03822	0.38219	19.00	0.190	7.48
173.380	0.04258	0.42584	18.00	0.180	7.09
173.380	0.04774	0.47741	17.00	0.170	6.69
173.380	0.05390	0.53895	16.00	0.160	6.30
173.380	0.06132	0.61321	15.00	0.150	5.91
173.380	0.07039	0.70394	14.00	0.140	5.51
173.380	0.13797	1.37972	10.00	0.100	3.94
	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	0.20	20 / 7.8
	1,500-10,000	N/A	N/A	N/A	N/A

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 Revision 1

Garmin International, Inc. SN's: CE/FCC unit1, CE/FCC unit2
 Model: A03198
 Test #: 170817
 Test to: CFR47 15C, RSS-210, RSS-247
 File: A03198 RFExp

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 IC: 1792A-03198
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