

Garmin		A03348	Test Number:	170809A		
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)		4.3
				dBd + 2.17 = dBi	dBi to dBd	2.2
TxFrequency (MHz)	2440	Average Power (Watts)	0.0530	Antenna Gain (dBd)		2.13
Cable Loss (dB)	0.0	(dBm)	17.2	Antenna minus cable (dBi)		4.30
	Calculated ERP (mw)	86.552		EIRP = Po(dBm) + Gain (dB)		
	Calculated EIRP (mw)	142.651		Radiated (EIRP) dBm		21.543
	Occupational Limit	Power density (S) EIRP ----- = mW/cm² 4 p r² r (cm) EIRP (mW)		Radiated (ERP) dBm		19.373
	5 mW/cm ²					
	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		
		IC radio frequency radiation exposure limits per RSS-102				
		Frequency (MHz)	Occupational Limit (W/m ²)	Public Limit (W/m ²)		
	0.6455 f ^{0.5} W/m ²	100-6,000	0.6455 f ^{0.5}			
	31.88535 W/m ²	6,000-15,000	50			
	Canada General Public Limit					
	0.02619 f ^{0.6834} W/m ²	48-300		1.291		
	5.40851 W/m ²	300-6,000		0.02619 f ^{0.6834}		
		6,000-15,000	50	10		
EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts	mW/cm ²	W/m ²	cm	meter	inches	Feet
142.651	0.00114	0.01135	100.00	1.00	39.37	3.28
142.651	0.00140	0.01401	90.00	0.90	35.43	2.95
142.651	0.00177	0.01774	80.00	0.80	31.50	2.62
142.651	0.00232	0.02317	70.00	0.70	27.56	2.30
142.651	0.00315	0.03153	60.00	0.60	23.62	1.97
142.651	0.00454	0.04541	50.00	0.50	19.69	1.64
142.651	0.00709	0.07095	40.00	0.40	15.75	1.31
142.651	0.01261	0.12613	30.00	0.30	11.81	0.98
142.651	0.01816	0.18163	25.00	0.25	9.84	0.82
142.651	0.02838	0.28380	20.00	0.20	7.87	0.66
142.651	0.03145	0.31446	19.00	0.190	7.48	0.62
142.651	0.03504	0.35037	18.00	0.180	7.09	0.59
142.651	0.03928	0.39280	17.00	0.170	6.69	0.56
142.651	0.04434	0.44343	16.00	0.160	6.30	0.52
142.651	0.05045	0.50453	15.00	0.150	5.91	0.49
142.651	0.05792	0.57918	14.00	0.140	5.51	0.46
142.651	0.11352	1.13518	10.00	0.100	3.94	0.33
		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: 5AZ000013 / 5AZ000007
Model: A03348
Test #: 170809A
Test to: CFR47 15C, RSS-210, RSS-247
File: A03348 RFExp

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