

Garmin	GMN-01560	Test Number:	170705						
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)	1				
				dBi to dBd	2.2				
TxFrequency (MHz)	978	Peak Power (Watts)	40.0867	Antenna Gain (dBd)	-1.17				
Cable Loss (dB)	0.0	(dBm)	46.0	Antenna minus cable (dBi)	1.00				
	Calculated ERP (mw)	30619.634		EIRP = Po(dBm) + Gain (dB)					
	Calculated EIRP (mw)	50466.130		Radiated (EIRP) dBm	47.030				
				ERP = EIRP - 2.17 dB					
				Radiated (ERP) dBm	44.860				
Occupational Limit	<div style="border: 1px solid black; padding: 5px;"> Power density (S) EIRP ----- = mW/cm² 4 π r² r (cm) EIRP (mW) </div>								
0.6455f ^{0.5} W/m ²									
20.18672 W/m ²									
General Public Limit									
0.02619f ^{0.6834} W/m ²									
2.89556 W/m ²									
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						
IC radio frequency radiation exposure limits per RSS-102									
Frequency (MHz)		Occupational Limit (W/m ²)	Public Limit (W/m ²)						
100-6,000		0.6455f ^{0.5}							
6,000-15,000		50							
48-300			1.291						
300-6,000			0.02619f ^{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			
50466.130	0.10040	1.00399	200.00	2.00	78.74	6.56			
50466.130	0.13113	1.31134	175.00	1.75	68.90	5.74			
50466.130	0.17849	1.78487	150.00	1.50	59.06	4.92			
50466.130	0.25702	2.57022	125.00	1.25	49.21	4.10			
50466.130	0.27889	2.78887	120.00	1.20	47.24	3.94			
50466.130	0.40160	4.01597	100.00	1.00	39.37	3.28			
50466.130	0.49580	4.95798	90.00	0.90	35.43	2.95			
50466.130	0.62749	6.27495	80.00	0.80	31.50	2.62			
50466.130	0.81959	8.19585	70.00	0.70	27.56	2.30			
50466.130	1.11555	11.15546	60.00	0.60	23.62	1.97			
50466.130	1.60639	16.06387	50.00	0.500	19.69	1.64			
50466.130	1.98319	19.83194	45.00	0.450	17.72	1.48			
50466.130	2.50998	25.09979	40.00	0.400	15.75	1.31			
50466.130	4.46219	44.62186	30.00	0.300	11.81	0.98			
50466.130	10.03992	100.39918	20.00	0.200	7.87	0.66			
50466.130	17.84874	178.48742	15.00	0.150	5.91	0.49			
50466.130	40.15967	401.59670	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						0.45	45 / 17.7	1.20	120 / 47.3
1,500-10,000						N/A	N/A	N/A	N/A

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 Revision 1

Garmin International, Inc.
 Model: GMN-01560
 Test #: 170705
 Test to: FCC Parts 2 and 87
 File: GMN01560 RFExp

SN: 4PF000009
 FCC ID: IPH-02929
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