

Dbii Ltd	Model:	F52N-Pro	Test Number:	110711		
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)	24
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2.2
Tx Frequency (MHz)	2437	Maximum (Watts)	0.8000		Antenna Gain (dBd)	21.83
Cable Loss (dB)	0.0	(dBm)	29.03		Antenna minus cable (dBi)	24.00
	Calculated ERP (mw)	121924.220		EIRP = Po(dBm) + Gain (dB)		
	Calculated EIRP (mw)	200950.915			Radiated (EIRP) dBm	53.031
				ERP = EIRP - 2.17 dB		
Occupational Limit		<div>Power density (S) EIRP ----- = mW/cm^2 4 p r^2 r (cm) EIRP (mW)</div>			Radiated (ERP) dBm	50.861
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	f/300	f/1500		
		1,500-10,000	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/cm2)	8.123333333	1.624666667		
		300-1,500 (W/m2)	81.23333333	16.24666667		
		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
200950.915	0.01599	0.15991	1000.00	10.00	393.70	0.83
200950.915	0.02843	0.28429	750.00	7.50	295.28	0.63
200950.915	0.06396	0.63965	500.00	5.00	196.85	0.42
200950.915	0.25586	2.55859	250.00	2.50	98.43	0.21
200950.915	0.39978	3.99779	200.00	2.00	78.74	0.17
200950.915	0.71072	7.10718	150.00	1.50	59.06	0.13
200950.915	1.00725	10.07254	126.00	1.26	49.61	0.11
200950.915	1.59912	15.99117	100.00	1.00	39.37	0.08
200950.915	1.97422	19.74218	90.00	0.90	35.43	0.08
200950.915	2.49862	24.98620	80.00	0.80	31.50	0.07
200950.915	3.26350	32.63503	70.00	0.70	27.56	0.06
200950.915	4.44199	44.41990	60.00	0.60	23.62	0.05
200950.915	5.09922	50.99224	56.00	0.56	22.05	0.05
200950.915	6.39647	63.96466	50.00	0.50	19.69	0.04
200950.915	9.99448	99.94479	40.00	0.40	15.75	0.03
200950.915	17.76796	177.67962	30.00	0.30	11.81	0.03
200950.915	39.97791	399.77914	20.00	0.200	7.87	0.02
		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	N/A	N/A
		1,500-10,000	0.56	56 / 22	1.26	126 / 50

Dbii Ltd	Model:	F52N-Pro	Test Number:	110711		
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)	33.5
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2.2
Tx Frequency (MHz)	5785	Maximum (Watts)	0.6000		Antenna Gain (dBd)	31.33
Cable Loss (dB)	0.0	(dBm)	27.78		Antenna minus cable (dBi)	33.50
	Calculated ERP (mw)	814988.068		EIRP = Po(dBm) + Gain (dB)		
	Calculated EIRP (mw)	1343232.683			Radiated (EIRP) dBm	61.282
				ERP = EIRP - 2.17 dB		
Occupational Limit		<div>Power density (S)</div> <div>EIRP</div> <div>----- = mW/cm^2</div> <div>4 p r^2</div> <div>r (cm) EIRP (mW)</div>			Radiated (ERP) dBm	59.112
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	f/300	f/1500			
	1,500-10,000	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/cm2)	19.28333333	3.856666667			
	300-1,500 (W/m2)	192.8333333	38.56666667			
	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
1343232.683	0.10689	1.06891	1000.00	10.00	393.70	0.83
1343232.683	0.19003	1.90029	750.00	7.50	295.28	0.63
1343232.683	0.42756	4.27564	500.00	5.00	196.85	0.42
1343232.683	0.66807	6.68069	400.00	4.00	157.48	0.33
1343232.683	1.04386	10.43858	320.00	3.20	125.98	0.27
1343232.683	1.18768	11.87678	300.00	3.00	118.11	0.25
1343232.683	2.67228	26.72277	200.00	2.00	78.74	0.17
1343232.683	3.49032	34.90320	175.00	1.75	68.90	0.15
1343232.683	4.75071	47.50714	150.00	1.50	59.06	0.13
1343232.683	5.08400	50.83998	145.00	1.45	57.09	0.12
1343232.683	5.45363	54.53626	140.00	1.40	55.12	0.12
1343232.683	6.84103	68.41028	125.00	1.25	49.21	0.10
1343232.683	10.68911	106.89106	100.00	1.00	39.37	0.08
1343232.683	13.19643	131.96427	90.00	0.90	35.43	0.08
1343232.683	16.70173	167.01728	80.00	0.80	31.50	0.07
1343232.683	21.81450	218.14502	70.00	0.70	27.56	0.06
1343232.683	29.69196	296.91961	60.00	0.600	23.62	0.05
		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	N/A	N/A
		1,500-10,000	1.45	145 / 57	3.20	320 / 126