Dbii Ltd	Model:	F52N-Pro	Test Number:	110711		
MPE Calculator		RP for calculation. EIRP is	•	added to the antenna g	gain in dBi.	
	dBi = dB gair	n compared to an isotropic :	radiator.			
	S = power de	nsity in mW/cm^2				
					Antenna Gain (dBi)	
		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	Ante	enna minus cable (dBi)	24.00
Calcula	ated ERP (mw)	121924.220		EIRP = Po(dBM) + Ga	in (dB)	
Calcula	ted EIRP (mw)	200950.915			Radiated (EIRP) dBm	53.031
		Danner dansita (C)		ERP = EIRP - 2.17 dB		
Occup	ational Limit	Power density (S) EIRP			Radiated (ERP) dBm	50.861
5.00000	0 mW/cm ²	= mW/cm^2				
50.0000	0 W/m^2	4 p r^2				
	l Public Limit	r (cm) EIRP (mW)				
	0 mW/cm ²					
10.0000						
10.00000	0 W/m²	T00 #: 0	4			
			y radiation exposure			
		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				
		•	Occupational Limit	Public Limit @ Tx		
		Frequency (MHz)	@ Tx Freq	Freq (mW/cm ²)		
		300-1,500 (mW/cm2)	8.1233333333	1.624666667		
		300-1,500 (W/m2)	81.23333333	16.24666667		
		1,500-10,000 (mW/cm2)	5	1		
		1,500-10,000 (M/m2)	50	10		
		1,500-10,000 (**/1112)	30	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	0.17
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
					D 44: T: :: : :	B 44: T: :- : :
			Occupational Limit	_	Public Limit minimum	
			minimum Distance	minimum Distance	distance (meters)	distance (cm / inches
		Frequency (MHz)	(meters)	(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

Rogers Labs, Inc. 4405 W. 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3214

Revision 1

Dbii Ltd Model: F52N-Pro Test #: 110711

Test to: FCC Parts 2, 15c RSS-210

File: RFExp F52N

IC: 9820A-F52N FCC ID#: VKV-F52N Date: August 12, 2011

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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.					
	_	n compared to an isotropic r	adiator.			
	S = power de	ensity in mW/cm^2				
					Antenna Gain (dBi)	
		Output Power		dBd + 2.17 = dBi	dBi to dBd	
Tx Frequency (MHz)	5785	Maximum (Watts)	0.6000		Antenna Gain (dBd)	31.33
Cable Loss (dB)	0.0	(dBm)	27.78	Ante	enna minus cable (dBi)	33.50
Calcula	ted FRP (mur)	\$14088 068		EIRP = Po(dBM) + Ga	in (dR)	
Calculated ERP (mw) Calculated EIRP (mw)				End -10(dbivi) + da	Radiated (EIRP) dBm	61.282
Carcula	culliu (mw)	1545252.005		ERP = EIRP - 2.17 dB	Radiated (Elici) debiii	01.202
Occups	tional Limit	Power density (S)		Lid Liid - 2.17 db	Radiated (ERP) dBm	59.112
		EIRP			readlated (Erd.) doin	33.112
	mW/cm ²	= mW/cm^2				
50.00000	W/m ²	4 p r^2				
General	Public Limit	r (cm) EIRP (mW)				
1.00000	mW/cm ²					
10.00000						
10.00000	W/III	ECC and in farmance	y radiation exposure l	imita man 1 1210		
			•			
		Frequency (MHz)	Occupational Limit	Public Limit		
		300-1,500	f/300	f/1500		
		1,500-10,000	5	1		
		700 4: 0	41			
		FCC radio frequency	radiation exposure			
			Occupational Limit	Public Limit @ Tx		
		Frequency (MHz)	@ Tx Freq	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
			Occupational Limit	Occupational Limit	Public Limit minimum	Public Limit minimum
			minimum Distance	minimum Distance	distance (meters)	distance (cm / inches
		Frequency (MHz)	(meters)	(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

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