Mikrotik	Model:	RB751U-2HnD	Test Number:	110802		
MPE Calculator		RP for calculation. EIRP is t	•	dded to the antenna ga	ain in dBi.	
	dBi = dB gain compared to an isotropic radiator.					
	S = power de	ensity in mW/cm^2				
					Antenna Gain (dBi)	8.3
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2.3
Tx Frequency (MHz)	2437	Maximum (Watts)	1.0000		Antenna Gain (dBd)	6.33
					, ,	
Cable Loss (dB)	0.0	(dBm)	30.00	Ante	enna minus cable (dBi)	8.50
` ′		, ,			, ,	
Calcula	ted ERP (mw)	4295.364		EIRP = Po(dBM) + Ga	ain (dB)	
Calculated EIRP (mw)					Radiated (EIRP) dBm	38.500
	()			ERP = EIRP - 2.17 dB		
Occupa	tional Limit	Power density (S)		214 2114 2117 112	Radiated (ERP) dBm	36.330
		EIRP			readaced (Ere) debin	30.33
	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/m	FOG. 4: 6	41.71			
			y radiation exposure l			
		Frequency (MHz)	Occupational Limit	Public Limit		
		300-1,500	f/300	f/1500		
		1,500-10,000	5	1		
		FCC radio frequenc	y radiation exposure l			
			Occupational Limit	Public Limit @ Tx		
		Frequency (MHz)	@ Tx Freq	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		
		1,500 10,000 (11/1112)	50			
EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts	mW/cm ²	W/m ²				
			cm	meter	inches	Feet
7079.458	0.05634	0.56337	100.00	1.00	39.37	0.08
7079.458	0.06955	0.69551	90.00	0.90	35.43	0.08
7079.458	0.08803	0.88026	80.00	0.80	31.50	0.07
7079.458	0.10015	1.00154	75.00	0.75	29.53	0.06
7079.458	0.11497	1.14973	70.00	0.70	27.56	0.06
7079.458	0.22535	2.25346	50.00	0.50	19.69	0.04
7079.458	0.27821	2.78205	45.00	0.45	17.72	0.04
7079.458	0.35210	3.52103	40.00	0.40	15.75	0.03
7079.458	0.45989	4.59890	35.00	0.35	13.78	0.03
7079.458	0.62596	6.25962	30.00	0.30	11.81	0.03
7079.458	0.90138	9.01385	25.00	0.25	9.84	0.02
7079.458	0.97806	9.78065	24.00	0.24	9.45	0.02
7079.458	1.06496	10.64963	23.00	0.23	9.06	0.02
7079.458	1.16398	11.63978	22.00	0.22	8.66	0.02
7079.458	1.27747	12.77472	21.00	0.21	8.27	0.02
7079.458	1.40841	14.08413	20.00	0.20	7.87	0.02
7079.458	1.56057	15.60569	19.00	0.190	7.48	0.02
			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
		300-1300	N/A	N/A		

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

Revision 1

Mikrotikls SIA Model: RB751U-2HnD Test #: 110802

Test to: CFR47 (15.247) File: RFExp RB751U2HnD SN: 2B67011CE826 FCC ID#: TV7RB751-2HND Date: August 29, 2011

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