Mikrotik		RB951Ui-2nD	Test Number:	150901		
MPE Calculator	MPE uses EIRP for cal	culation. EIRP is based	on TX power added to the ar	ntenna gain in đBi.		
	dBi = dB gain compare	d to an isotropic radiate	or.	_		
	S = power density in m	W/cm^2				
				Antenn	a Gain (dBi)	1
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2.2
Tx Frequency (MHz)	2437	Maximum (Watts)	0.161000	Antenna	a Gain (dBd)	-1.17
Cable Loss (dB)	0.0	(dBm)	22.07	Antenna minus	s cable (dBi)	1.00
		Milliwatts				
	Calculated ERP (mw)			EIRP = Po(dBM) + Gai	n (dB)	
	Calculated EIRP (mw)	202.687			(EIRP) dBm	23.068
		D 1 2 00		ERP = EIRP - 2.17 dB		
	Occupational Limit	Power density (S EIRP)	Radiated	i (ERP) dBm	20.898
0.6455f ^{0.5}	W/m^2	= mW/cm	^2			
31.86574	$W/^2$	4 p r^2	-			
	General Public Limit		V)			
0.02619f ^{0.6834}	W/m ²	` ` ` `	•			
5.40397						
3.40397	W/m ⁻	ECC radio fro	annance endiation area cores lim	vita mar 1 1210	1	
			quency radiation exposure lim	Public Limit		
		Frequency (MHz) 300-1,500	Occupational Limit f/300	f/1500	-	
			5	1/1300		
		1,500-10,000	J	1		
		IC radio from	lency radiation exposure limit	nor DCC 102		
		Frequency (MHz)	Occupational Limit (W/m²)	Public Limit (W/m²)		
		48-300	6.455	1.291		
		300-6,000		0.02619f ^{0.6834}		
		100-6,000	0.6455f ^{0.5}	0.02619f ^{0.6834}		
		6,000-150,000	50	10		
EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts	mW/cm ²	W/m^2	cm	meter	inches	Feet
202.687	0.00161	0.01613	100.00	1.00	39.37	3.28
202.687	0.00199	0.01991	90.00	0.90	35.43	2.95
202.687	0.00252	0.02520	80.00	0.80	31.50	2.62
202.687	0.00329	0.03292	70.00	0.70	27.56	2.30
202.687	0.00448	0.04480	60.00	0.60	23.62	1.97
202.687	0.00645	0.06452	50.00	0.50	19.69	1.64
202.687	0.01008	0.10081	40.00	0.40	15.75	1.31
202.687	0.01792	0.17921	30.00	0.30	11.81	0.98
202.687	0.04032	0.40323	20.00	0.20	7.87	0.66
202.687	0.16129	1.61293	10.00	0.10	3.94	0.33
202.687	0.19913	1.99127	9.00	0.090	3.54	0.30
202.687	0.25202	2.52021	8.00	0.080	3.15	0.26
202.687	0.44804	4.48037	6.00	0.060	2.36	0.20
202.687	0.53320	5.33201	5.50	0.055	2.17	0.18
202.687	0.64517	6.45173	5.00	0.050	1.97	0.16
202.687	1.00808	10.08082	4.00	0.040	1.57	0.13
202.687	1.79215	17.92146	3.00	0.030	1.18	0.10
		Frequency (MHz)			Public	
			Occupational Limit minimum	Occupational Limit	Limit	Public Limit
			Distance	minimum Distance	minimum	minimum distance
			(meters)	(cm / inches)	distance	(cm / inches)
					(meters)	
		200 4 500	37/4	NT/A		27/4
		300-1,500	N/A	N/A	N/A	N/A
		1,500-10,000			0.55	5.5 / 2.2

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

Revision 1

Mikrotikls SIA Model: RB951Ui-2nD Test #: 150901

Test to: CFR47 (15.247) File: RB951Ui2nD RFExp S/N: 5D4501DDA4E7/527 FCC ID#: TV7RB951UI-2ND

IC: 7442A-9512ND Date: October 13, 2015

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