MPE Calculator	Mikrotikls		Test Number	101209	
MPE uses EIRP for calculation		ed on TX power added t			
		compared to an isotropi			
	S = power density in mW/cm^2			Antenna Gain (dBi)	24
	•	-	dBd + 2.17 = dBi	dBi to dBd	2.1
Tx Frequency (MHz)	2437	-			21.83
• , , ,		, ,		ntenna minus cable (dBi)	24.00
Cable Loss (dB)	0.0	(dBm)		, í	
Calculated ERP (mw)		16764.580		Radiated (EIRP) dBm	44.41
Calculated EIRP (mw)		27630.751			
				Radiated (ERP) dBm	42.24
Оссиј	oational Limit	Power density (S)	=		
5.00000	mW/cm ²	EIRP			
		= mW/cm/	2		
General Public Limit		4 p r^2	17.73		
1.00000	mW/cm ²	[r (cm), EIRP (m	W)]		
210000	m w/cm				
		FCC radio fre	equency radiation exposure lim	its per 1 1310	
		Frequency (MHz)	Occupational Limit	Public Limit	
		300-1,500	f/300	f/1500	
		1,500-100,000	5	1	
		1,500 100,000		1	
		FCC radio fre	equency radiation exposure lim	its per 1 1310	
		100144011	Occupational Limit @ Tx	Public Limit @ Tx Freq	
		Frequency (MHz)	Freq (mW/cm^2)	(mW/cm^2)	
		300-1,500	8.123333333	1.624666667	
		1,500-1,500	5	1.02400007	
		1,300-100,000	3	1	
		EIRP	Distance	Distance	S
		milliwatts	cm	inches	mW/cm
		27630.751	70.00	27.56	0.44873
		27630.751	60.00	23.62	0.44873
		27630.751	50.00	19.69	0.87951
		27630.751	45.00	17.72	1.08582
		27630.751	44.00	17.32	1.13574
		27630.751	40.00	15.75	1.13374
		27630.751	30.00	11.81	2.44309
		27630.751	25.00	9.84	3.51806
		27630.751	24.00	9.45	3.81734
		27630.751	23.00	9.06	4.15649
		27630.751	22.00	8.66	4.54294
		27630.751	21.00	8.27	4.98591
		27630.751	20.00	7.87	5.49696
		27630.751	19.00	7.48	6.09082
		27630.751	15.00	5.91	9.77238
		2,030.731	25.00	5.51	2
		Frequency (MHz)	Occupational Limit minimum Distance (cm / in)	Public Limit minimum distance (cm / in)	
		200 1 500	N/A	N/A	
		300-1,500			
		1,500-10,000	21 cm / 7.9"	45 cm / 17.7"	

Rogers Labs, Inc. 4405 W. 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3214 Revision 1

Mikrotikls SIA Model: RB411UAHR Test #: 101209 Test to: FCC (15.247) File: RFExp RB411UAHR FCC ID#: TV7RB411UAHR SN: 24D10194434C/014

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