Mikrotik		Model: RB711UA-5HnD	Test Number:			
MPE Calculator	MPE uses EIRP for calculation. EIRP is based on TX power added to the anter			enna gain in dBi.		
		compared to an isotropic radiate	or.			
	S = power den	sity in mW/cm^2				
					Antenna Gain (dBi)	
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2.2
Tx Frequency (MHz)	5785	Maximum (Watts)	0.400000	ı A	Antenna Gain (dBd)	35.83
Cable Loss (dB)	0.0	(dBm)	26.02	Antenn	a minus cable (dBi)	38.00
	ulated ERP (mw)			EIRP = Po(dBM) + Gain (dB)		
Calcu	lated EIRP (mw)	2523829.378			diated (EIRP) dBm	64.02
		Power density (S)		ERP = EIRP - 2.17 dB		
Оссі	ipational Limit	Power density (5)		Ra	adiated (ERP) dBm	61.85
5.00000 mW/cm <sup>2</sup>		EIRP				
50.00000 W/m <sup>2</sup>		- = mW/cm <sup>2</sup>				
	eral Public Limit	4 p r^2				
	00 mW/cm <sup>2</sup>					
		r (cm) EIRP (mW)				
10.000	00 W/m <sup>2</sup>					
			ency radiation exposure limits per	I		
		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	Public Limit		
		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 (MW/cm2)	50	10		
		1,500-10,000 (W/III2)	50	10		
EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts	mW/cm <sup>2</sup>	W/m <sup>2</sup>			inches	Feet
			cm	meter		
2523829.378	0.31381	3.13812	800.00	8.00	314.96	0.67
2523829.378	0.40988	4.09877	700.00	7.00	275.59	0.58
2523829.378	0.55789	5.57889	600.00	6.00	236.22	0.50
2523829.378	0.80336	8.03360	500.00	5.00	196.85	0.42
2523829.378	0.89015	8.90149	475.00	4.75	187.01	0.40
2523829.378	0.99180	9.91802	450.00	4.50	177.17	0.38
2523829.378	1.08621	10.86209	430.00	4.30	169.29	0.36
2523829.378	1.25525	12.55250	400.00	4.00	157.48	0.33
2523829.378	1.63951	16.39510	350.00	3.50	137.80	0.29
2523829.378	2.23156	22.31555	300.00	3.00	118.11	0.25
2523829.378	3.21344	32.13439	250.00	2.50	98.43	0.21
2523829.378	5.02100	50.20999	200.00	2.00	78.74	0.17
2523829.378	6.55804	65.58040	175.00	1.75	68.90	0.15
2523829.378	8.92622	89.26220	150.00	1.50	59.06	0.13
2523829.378	20.08400	200.83996	100.00	1.00	39.37	0.08
2523829.378	24.79506	247.95057	90.00	0.90	35.43	0.08
2523829.378	31.38124	313.81244	80.00	0.80	31.50	0.07
			Occupational Limit minimum	Occupational Limit minimum	Public Limit	Public Limit
			Distance	Distance	minimum	minimum distance
		Frequency (MHz)	(meters)	(cm / inches)	distance (meters)	(cm / inches)
		Frequency (MHz) 300-1,500	(meters) N/A	(cm / inches) N/A	distance (meters) N/A	(cm / inches) N/A

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MIKROTIK Model: RB711UA-5HnD Test #: 110610A

Test to: FCC (15.247) File: RFExp RB711UA5HnD

FCC ID#: TV7RB711UA-5HnD SN: 2C8401DD3A03 Date: August 3, 2011 Page 1 of 1