Mikrotik	Model: RB952ui 5ac2nD	,	Test Number:	160104d		
MPE Calculator			I power added to the antenna gain in dBi.			
	dBi = dB gain compared to a					
	S = power density in mW/cn	n^2				
					Antenna Gain (dBi)	2
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2
Tx Frequency (MHz)	2437	Maximum (Watts)	0.116177		Antenna Gain (dBd)	0.5
Cable Loss (dB)	0.0	(dBm)	20.7		Antenna minus cable (dBi)	2.7
	Calculated ERP (mw)	131 257		EIRP = Po(dBM) + Gain (dB)		
	Calculated EIRP (mw)			Zaru - Fo(uziri) + Guar (uz)	Radiated (EIRP) dBm	23.35
		Power density (S)		ERP = EIRP - 2.17 dB		
					Radiated (ERP) dBm	21.1
		EIRP				
		= mW/cn 4 p r^2	n^2			
		4 p 1 · 2				
		EIRP (mW), r (cm)				
	Occupational Limit		FCC radio frequency radiation exposure	limits per 1.1310		
5	mW/cm <sup>2</sup>	Frequency (MHz)	Occupational Limit (mW/cm <sup>2</sup> )	Public Limit (mW/cm <sup>2</sup> )		
50		300-1,500	f/300	f/1500		
	General Public Limit	1,500-10,000	5	1		
1	mW/cm <sup>2</sup>	Ì				
10	W/m <sup>2</sup>					
	Occupational Limit	IC radio frequency radiation exposure limits per RSS-102				
0.6455 (0.5	W/m <sup>2</sup>	Frequency (MHz)				
$0.6455 f^{0.5}$			Occupational Limit (W/m²)	Public Limit (W/m²)		
0.95332	W/m <sup>2</sup>	100-6,000	$0.6455f^{0.5}$			
o oo can d 6834	General Public Limit	6,000-15,000 48-300	50	1.291		
$0.02619 f^{0.6834}$	W/m <sup>2</sup>					
5.40397	W/m <sup>2</sup>	300-6,000		$0.02619f^{0.6834}$		
		6,000-15,000	50	10		
EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts		W/m <sup>2</sup>	cm	meter	inches	Feet
216.332	mW/cm <sup>2</sup> 0.00213	0.02125	90.00	0.90	35.43	2.95
216.332	0.00213	0.02125	80.00	0.90	31.50	2.62
216.332	0.00267	0.03513	70.00	0.70	27.56	2.30
216.332	0.00478	0.04782	60.00	0.60	23.62	1.97
216.332	0.00689	0.06886	50.00	0.50	19.69	1.64
216.332	0.01076	0.10759	40.00	0.40	15.75	1.31
216.332	0.01913	0.19128	30.00	0.30	11.81	0.98
216.332	0.04304	0.43038	20.00	0.20	7.87	0.66
216.332	0.08783	0.87833	14.00	0.14	5.51	0.46
216.332	0.26899	2.68987	8.00	0.08	3.15	0.26
216.332 216.332	0.47820 0.52986	4.78199 5.29861	6.00 5.70	0.060 0.057	2.36	0.20
216.332	0.52986	6.88607	5.00	0.057	1.97	0.19
216.332	0.97592	9.75917	4.20	0.042	1.65	0.16
216.332	1.91280	19.12797	3.00	0.030	1.18	0.10
216.332	4.30379	43.03793	2.00	0.020	0.79	0.07
216.332	17.21517	172.15173	1.00	0.010	0.39	0.03
		Frequency (MHz)	Occupational Limit minimum Distance	Public Limit minimum distance (meters)		
			(meters)			
		47CFR 1.1310	0.20	0.20		
		RSS-102	0.20	0.20		

Rogers Labs, Inc. 4405 W. 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3214 Revision 1 Mikrotikls SIA Model: RB952Ui-5ac2nD-US Test #: 160414d

Test to: 47CFR, 15.247, 15.407, RSS-247 File: RB952Ui-5ac2nD RFExp

S/N: 5EB204A373B8/516 FCC ID#: TV7RB952-5AC2ND IC: 7442A-9525AC SS-247 Date: July 27, 2016

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Mikrotik	Model: RB952ui 5ac2nD		Гest Number:	160104d		
MPE Calculator	MPE uses EIRP for calculati	on. EIRP is based on TX	power added to the antenna gain in dBi.			
	dBi = dB gain compared to an isotropic radiator.					
	S = power density in mW/cm^2					
					Antenna Gain (dBi)	2.
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2.
Tx Frequency (MHz)	5725	Maximum (Watts)	0.008652	2	Antenna Gain (dBd)	0.5
Cable Loss (dB)	0.0	(dBm)	9,	1	Antenna minus cable (dBi)	2.7
Caure Luss (ub)	0.0	(цын)			7 thermat filmeds edoke (dibi)	2.7
	Calculated ERP (mw)	9.775		EIRP = Po(dBM) + Gain (dB)		
	Calculated EIRP (mw)	16.111			Radiated (EIRP) dBm	12.07
		Power density (S)		ERP = EIRP - 2.17 dB		
					Radiated (ERP) dBm	9.90
		EIRP	42			
		= mW/cn 4 p r^2	r'2			
		EIRP (mW), r (cm)				
	Occupational Limit		FCC radio frequency radiation exposure			
5	mW/cm <sup>2</sup>	Frequency (MHz)	Occupational Limit (mW/cm <sup>2</sup> )	Public Limit (mW/cm <sup>2</sup> )		
50	W/m <sup>2</sup>	300-1,500	f/300	f/1500		
	General Public Limit	1,500-10,000	5	1		
1	mW/cm <sup>2</sup>					
10	W/m <sup>2</sup>					
	Occupational Limit		IC radio frequency radiation exposure li			
$0.6455f^{0.5}$	W/m <sup>2</sup>	Frequency (MHz)	Occupational Limit (W/m²)	Public Limit (W/m <sup>2</sup> )		
0.99491		100-6,000	$0.6455f^{0.5}$			
	General Public Limit	6,000-15,000	50			
$0.02619f^{0.6834}$	W/m <sup>2</sup>	48-300		1.291		
9.68722	W/m <sup>2</sup>	300-6,000		$0.02619f^{0.6834}$		
		6,000-15,000	50	10		
EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts	mW/cm <sup>2</sup>	W/m <sup>2</sup>	cm	meter	inches	Feet
16.111	0.00016	0.00158	90.00	0.90	35.43	2.95
16.111	0.00020	0.00200	80.00	0.80	31.50	2.62
16.111	0.00026	0.00262	70.00	0.70	27.56	2.30
16.111	0.00036	0.00356	60.00	0.60	23.62	1.97
16.111	0.00051	0.00513	50.00	0.50	19.69	1.64
16.111	0.00080	0.00801	40.00	0.40	15.75	1.31
16.111	0.00142	0.01425	30.00	0.30	11.81	0.98
16.111 16.111	0.00321 0.00654	0.03205 0.06541	20.00 14.00	0.20 0.14	7.87 5.51	0.66
16.111	0.02003	0.20032	8.00	0.14	3.15	0.46
16.111	0.02003	0.20032	6.00	0.08	2.36	0.20
16.111	0.03946	0.39460	5.70	0.057	2.24	0.19
16.111	0.05128	0.51283	5.00	0.050	1.97	0.16
16.111	0.07268	0.72680	4.20	0.042	1.65	0.14
16.111	0.14245	1.42452	3.00	0.030	1.18	0.10
16.111	0.32052	3.20517	2.00	0.020	0.79	0.07
16.111	0.56981	5.69808	1.50	0.015	0.59	0.05
		En maria (MII)	Occupational Limit minimum Distance	Dale I ink minimum distance		
		Frequency (MHz)	(meters)	Public Limit minimum distance (meters)		
		47CFR 1.1310	0.20	0.20		
		RSS-102	0.20	0.20		

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Test to: 47CFR, 15.247, 15.407, RSS-247 Date File: RB952Ui-5ac2nD RFExp Page

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