Mikrotik	Model: RB931-2nD		1	Test Number:		160414C		
MPE Calculator	MPE uses EIRP for calculate	on. EIRP is ba			ne 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)	2437	Maximum (Watts)		0.097778			Antenna Gain (dBd)	0.53
Cable Loss (dB)	0.0	(dBm)			19.9		4	2.7
	0.0	, (ubili)			19.9		Antenna minus cable (dBi)	2.1
	Calculated ERP (mw)	110.470				EIRP = Po(dBM) + Gain(dB)		
	Calculated EIRP (mw)	182.072					Radiated (EIRP) dBm	22.60
			Power der	nsity (S)		ERP = EIRP - 2.17 dB		
							Radiated (ERP) dBm	20.43
			EIRP	= mW/cm^2				
			4 p r'					
				-				
			EIRP (mV	V), r (cm)				
	Occupational Limit			FCC radio free	uency radiation exposure	limits per 1.1310		
		Frequency (MHz)		Occupational Limit (mW/cm²)		Public Limit (mW/cm ²)		
50		300-1,500		f/300		f/1500		
30	General Public Limit	1,500-10,000		5		1		
. 1	mW/cm ²	1,500-10	,000					
10	W/m ²							
10	W/M							
	Occupational Limit			IC radio frequency radiation exposure lin		nits per RSS-102		
$0.6455f^{0.5}$	W/m ²	Frequency (MHz)		Occupational Limit (W/m ²)		Public Limit (W/m ²)		
0.95332	W/m^2	100-6,000		$0.6455 f^{0.5}$				
	General Public Limit	6,000-15,000		50				
0.02619 <i>f</i> ^{0.6834} 5.40397	W/m ²	48-300				1.291		
	W/m ²	300-6,000				$0.02619f^{0.6834}$		
		6,000-15,000			50	10		
EIRP	S	S		Γ	Distance	Distance	Distance	Distance
milliwatts	mW/cm ²	W/m ²			cm	meter	inches	Feet
182.072	0.00179	0.01789			90.00	0.90	35.43	2.95
182.072	0.00226	0.02264			80.00	0.80	31.50	2.62
182.072	0.00296	0.02957		70.00		0.70	27.56	2.30
182.072	0.00402	0.04025		60.00		0.60	23.62	1.97
182.072	0.00580	0.05796			50.00	0.50	19.69	1.64
182.072	0.00906	0.09056		40.00		0.40	15.75	1.31
182.072	0.01610	0.16099		30.00		0.30	11.81	0.98
182.072 182.072	0.03622 0.09273	0.36222 0.92728			20.00 12.50	0.20 0.13	7.87 4.92	0.66
182.072	0.09273	2.26388		8.00		0.13	3.15	0.41
182.072	0.40247	4.02467		6.00		0.08	2.36	0.20
182.072	0.49687	4.96873		5.40		0.054	2.13	0.18
182.072	0.57955	5.79553		5.00		0.050	1.97	0.16
182.072	0.95259	9.52586		3.90		0.039	1.54	0.13
182.072	1.60987	16.09870		3.00		0.030	1.18	0.10
182.072	4.47186	44.71860		1.80		0.018	0.71	0.06
182.072	14.48883	144.888	326		1.00	0.010	0.39	0.03
		F	AIII-)	Occupational Li	mit minimum Distance	Dake Link minimum distance ()		
		Frequency			meters)	Public Limit minimum distance (meters)		
		47CFR 1.			0.20	0.20		
		RSS-10	02		0.20	0.20		

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Revision 1

Mikrotikls SIA Model: RB931-2nD Test #: 160414C

Test to: 47CFR 15.247, RSS-247

File: RB931-2nD RFExp

S/N: 678E01DC4C3F/612 FCC ID#: TV7931-2ND IC: 7442A-9312ND Date: October 31, 2016

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