Mikrotik	Model: RBLDF-2nD		Test Number:	180330		
MPE Calculator			X power added to the antenna gain in dBi.			
	dBi = dB gain compared to					
	S = power density in mW/cr	m^2				
					Antenna Gain (dBi)	
	2.405	Output Power	0.000000	dBd + 2.17 = dBi	dBi to dBd	2
Tx Frequency (MHz)	2437	Maximum (Watts)	0.032700		Antenna Gain (dBd)	10.8
Cable Loss (dB)	0.0	(dBm)	15.1		Antenna minus cable (dBi)	13.0
	Calculated ERP (mw)	395.866		EIRP = Po(dBM) + Gain (dB)		
	Calculated EIRP (mw)			, , , , , , , , , , , , , , , , , , , ,	Radiated (EIRP) dBm	28.14
		Power density (S)		ERP = EIRP - 2.17 dB		
		Tower density (b)			Radiated (ERP) dBm	25.9
		EIRP				
		= mW/cr	m^2			
		4 p r^2				
		EIRP (mW), r (cm)				
	Occupational Limit	(, , , , , , , , , , , , , , , , , , ,	FCC radio frequency radiation exposure	limits per 1.1310		
5		Frequency (MHz)	Occupational Limit (mW/cm ²)	Public Limit (mW/cm²)		
50		300-1,500	f/300	f/1500		
50	W/m General Public Limit	1,500-1,500	5	1/1300		
		1,500-10,000	3	1		
1	mW/cm ²					
10	W/m ²					
	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)		
31.86574		100-6,000	$0.6455f^{0.5}$			
	General Public Limit	6,000-15,000	50			
$0.02619f^{0.6834}$	W/m ²	48-300		1.291		
5.40397	W/m ²	300-6,000		$0.02619 f^{0.6834}$		
3.40371	VV/III	6,000-15,000	50	10		
		0,000-15,000	50	10		
EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts	mW/cm ²	W/m ²	cm	meter	inches	Feet
652.451	0.00519	0.052	100.00	1.00	39.37	3.28
652.451	0.00641	0.064	90.00	0.90	35.43	2.95
652.451	0.00811	0.081	80.00	0.90	31.50	2.62
652.451	0.01060	0.106	70.00	0.70	27.56	2.30
652.451	0.01442	0.144	60.00	0.60	23.62	1.97
652.451	0.02077	0.208	50.00	0.50	19.69	1.64
652.451	0.03245	0.325	40.00	0.40	15.75	1.31
652.451	0.05769	0.577	30.00	0.30	11.81	0.98
652.451	0.12980	1.298	20.00	0.20	7.87	0.66
652.451	0.51920	5.192	10.00	0.10	3.94	0.33
652.451	0.64099	6.410	9.00	0.090	3.54	0.30
652.451	0.81126	8.113	8.00	0.080	3.15	0.26
652.451	1.05960	10.596	7.00	0.070	2.76	0.23
652.451	1.44223	14.422	6.00	0.060	2.36	0.20
652.451	2.07682	20.768	5.00	0.050	1.97	0.16
652.451	3.24502	32.450	4.00	0.040	1.57	0.13
652.451	5.76893	57.689	3.00	0.030	1.18	0.10
		Frequency (MHz)	Occupational Limit minimum Distance	Public Limit minimum distance (meters)		
			(meters)	` '		
		47CFR 1.1310	N/A	0.20		
		RSS-102	N/A	0.20		

Rogers Labs, Inc. 4405 W. 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3

Phone/Fax: (913) 837-3214 Revision 1 Mikrotikls SIA Simulation Model: RBLDF-2nD

Test #: 180330 Test to: 47CFR 15.247, RSS-247 File: RBLDF2ND RFExp

S/N: 8D30082D7F29, 8D3008BD1801 FCC ID: TV7LDF2ND IC: 7442A-LDF2ND 7, RSS-247 Date: May 9, 2018

Page 1 of 1