MPE Calculator			on TX power added to the ante	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	
Tx Frequency (MHz)	2437	Maximum (Watts)	1.000000	A	antenna Gain (dBd)	21.8
~						
Cable Loss (dB)	0.0	(dBm)	30.00	Antenn	a minus cable (dBi)	24.0
0.1	1. IEDD	150405 055		FIRE B (IDAG C (ID)		
	culated ERP (mw)			EIRP = Po(dBM) + Gain (dB)	t . 1 (EIDD) ID	54.00
Calc	ulated EIRP (mw)	251188.643			diated (EIRP) dBm	54.00
0	upational Limit	Power density (S)		ERP = EIRP - 2.17 dB	4: 4 (EDD) 4D	£1.02
	_			Ka	ndiated (ERP) dBm	51.83
	000 mW/cm ²	EIRP				
50.000	000 W/m ²	= mW/cm^2				
Gen	eral Public Limit	4 p r^2				
1.000	000 mW/cm^2	r (cm) EIRP (mW)				
10.000	000 W/m^2	1 (011) 2112 (1111)				
		FCC radio freque	ency radiation exposure limits per	1.1310 (mW/cm2)		
		Frequency (MHz)	Occupational Limit	Public Limit		
		300-1,500	f/300	f/1500		
		1,500-10,000	5	1		
		FCC radio	frequency radiation exposure lim	its per 1.1310		
		Frequency (MHz)	Occupational Limit	Public Limit		
		300-1,500 (mW/cm2)	8.123333333	1.62466667		
		300-1,500 (mw/cm2)	81.23333333	16.24666667		
		1,500-10,000 (mW/cm2)	5	10.24000007		
		1,500-10,000 (M/m2)	50	10		
		1,500 10,000 (17/112)	50	10		
EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts	mW/cm ²	W/m ²	cm	meter	inches	Feet
251188.643	0.07996	0.79956	500.00	5.00	196.85	0.42
251188.643	0.12493	1.24931	400.00	4.00	157.48	0.42
251188.643	0.22210	2.22100	300.00	3.00	118.11	0.25
251188.643	0.49972	4.99724	200.00	2.00	78.74	0.17
251188.643	0.65270	6.52701	175.00	1.75	68.90	0.17
251188.643	0.88840	8.88398	150.00	1.50	59.06	0.13
251188.643	0.99132	9.91319	142.00	1.42	55.91	0.12
251188.643	1.38812	13.88122	120.00	1.20	47.24	0.10
251188.643	1.65198	16.51980	110.00	1.10	43.31	0.09
251188.643	1.71373	17.13731	108.00	1.08	42.52	0.09
251188.643	1.81306	18.13057	105.00	1.05	41.34	0.09
251188.643	1.92128	19.21276	102.00	1.02	40.16	0.09
251188.643	1.99890	19.98896	100.00	1.00	39.37	0.08
251188.643	3.55359	35.53592	75.00	0.75	29.53	0.06
251188.643	5.03627	50.36270	63.00	0.63	24.80	0.05
251188.643	5.55249	55.52488	60.00	0.60	23.62	0.05
251188.643	22.20995	222.09952	30.00	0.30	11.81	0.03
			Occupational Limit minimum Distance	Occupational Limit minimum Distance	Public Limit	Public Limit
		Frequency (MHz)	(meters)	(cm / inches)	distance (meters)	(cm / inches)
		300-1,500	N/A	N/A	N/A	N/A
		1,500-10,000	0.63	63 / 24.8	1.42	142 / 55.9

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

Revision 1

Mikrotikls SIA Model: R11e-2HPnD Test #: 130310M Test to: CFR47 (15.247) File: RFExp R11E2HPND

SN: 3FDB01FD1749/245 FCC ID#: TV7R11E2HPND 0.247) Date: February 3, 2014

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